

Fringe quality 5

SNR 75990.3

Int time 299.985

Amp 10479.853

Phase 0.2

PFD 0.0e+00

Delays (us)

SBD 0.000000

MBD -0.000005

Fringe rate (Hz)

0.000000

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c211d

Exper # 16383

Yr:day 2021:117

Start 012100.00

Stop 012600.03

FRT 012330.00

Corr/FF/build

2021:228:043119

2021:228:051946

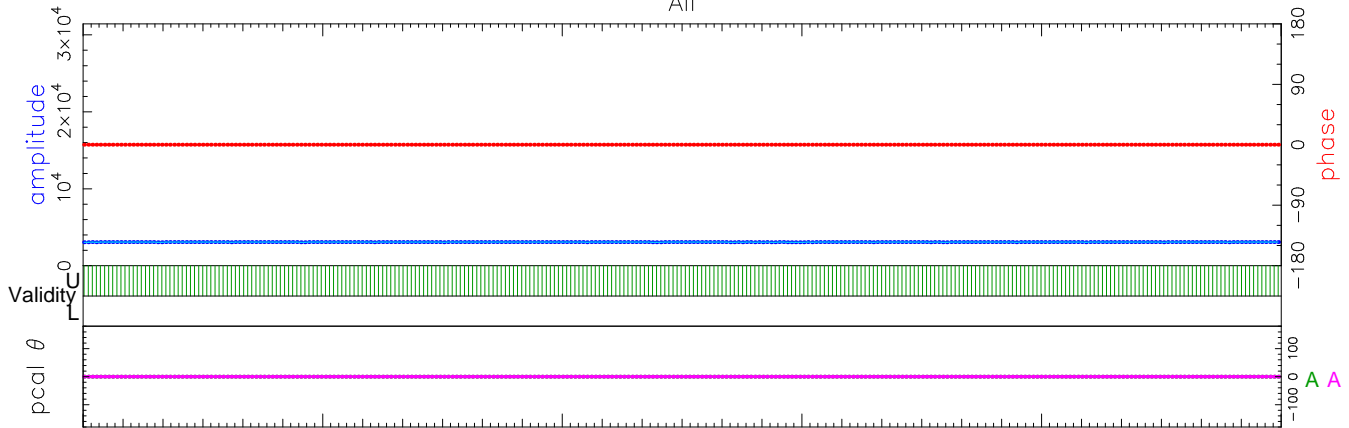
2021:057:122453

RA & Dec (J2000)

09h45m34.287498s

+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86227.00

0.2

3070.3

1537.0

U/L 586/0

A 0

A 0

A:A 0:0

A:A 0:0

A 1000

A 1000

A W03UX

A W03UX

Freq (MHz)

Phase

Ampl.

Sbd box

APs used

PC freqs

PC freqs

PC phase

Manl PC

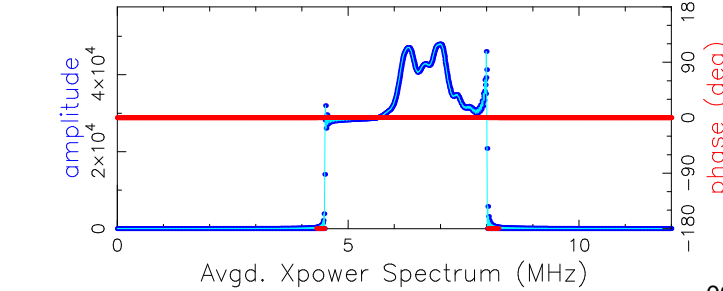
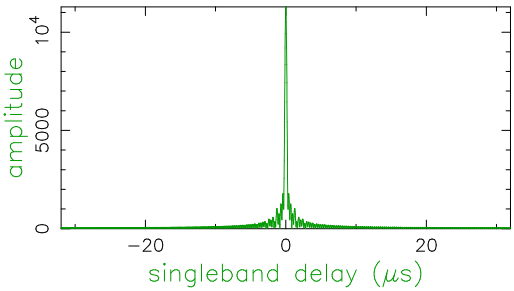
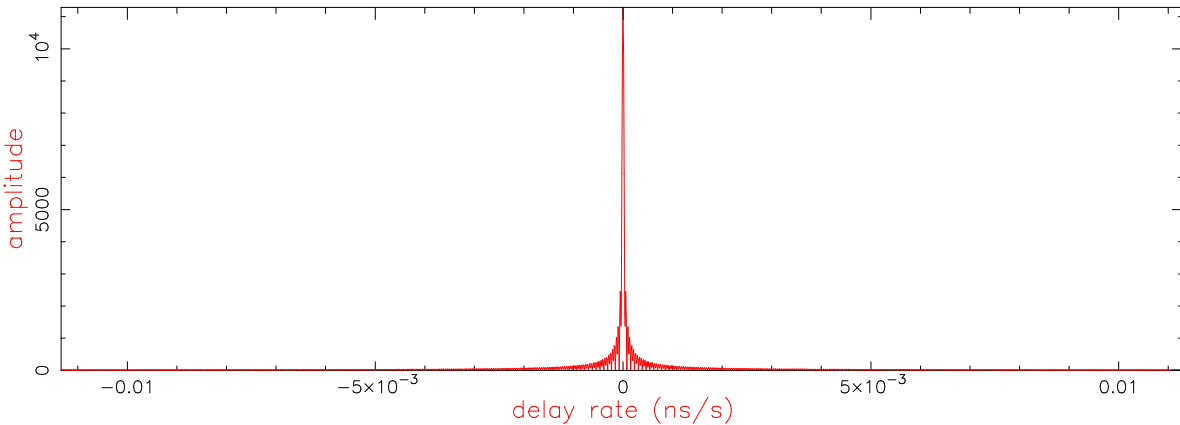
PC amp

Chan ids

Chan ids

Group delay (usec)(sbd)	-4.76648845489E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.76649E-06	+/-	6.0E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.0E-07
Phase delay (usec)	5.14608110407E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.14608E-09	+/-	4.9E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.8E-13
Total phase (deg)	0.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	0.2	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10479.854 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10479.853	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	3070.269	Sample rate(MSamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10479.854	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
A: az 340.4 el 29.3 pa 158.0		A: az 340.4 el 29.3 pa 158.0		u,v (fr/asec) 0.000 0.000		simultaneous interpolator	

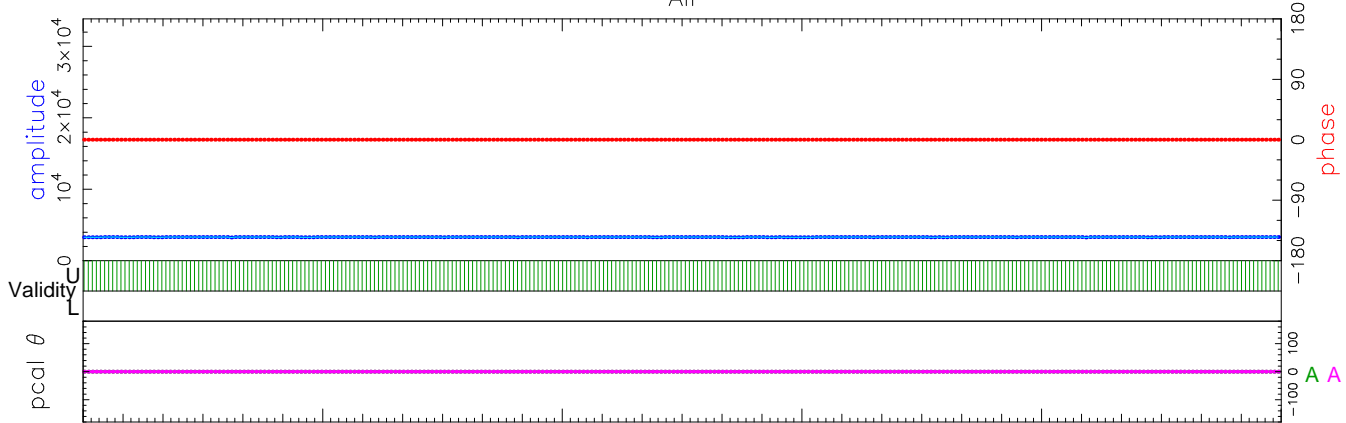


Fringe quality 5

SNR 81851.0
Int time 299.983
Amp 11288.135
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051946
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

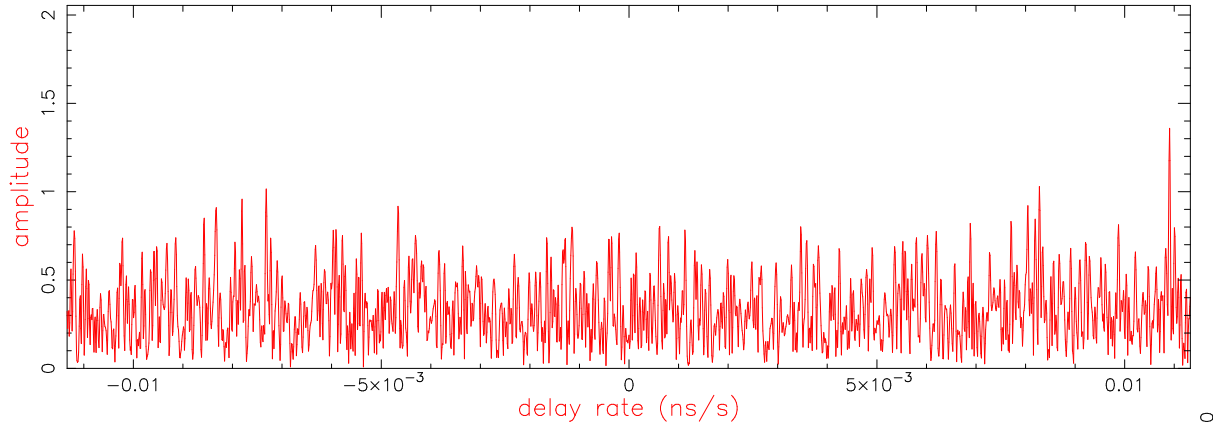


86227.00
0.2
3307.1
1537.0
U/L 586/0
A 0
A 0
A:A 0:0
A:A 0:0
A 1000
A 1000
A W03UY
A W03UY

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

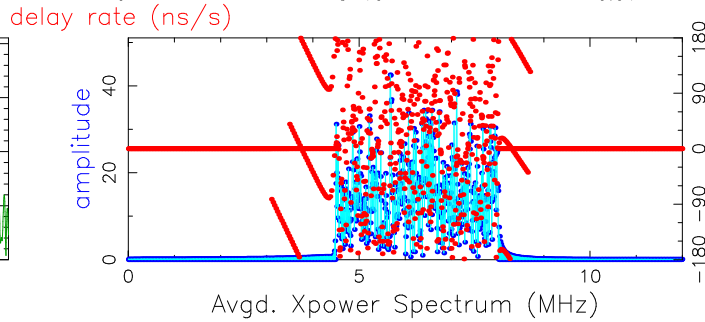
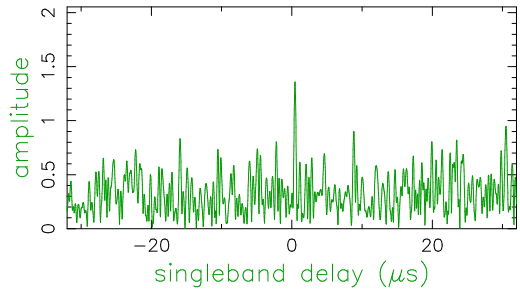
Group delay (usec)(sbd)	4.70850197734E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.88879E-06	+/- 5.6E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 5.6E-07
Phase delay (usec)	7.43740188764E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.43740E-09	+/- 4.5E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 2.6E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.1	+/- 0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	11288.135 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	11288.136	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	3307.071	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	11288.136	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
A: az 340.4 el 29.3 pa 158.0		A: az 340.4 el 29.3 pa 158.0		u,v (fr/asec) 0.000 0.000		simultaneous interpolator	



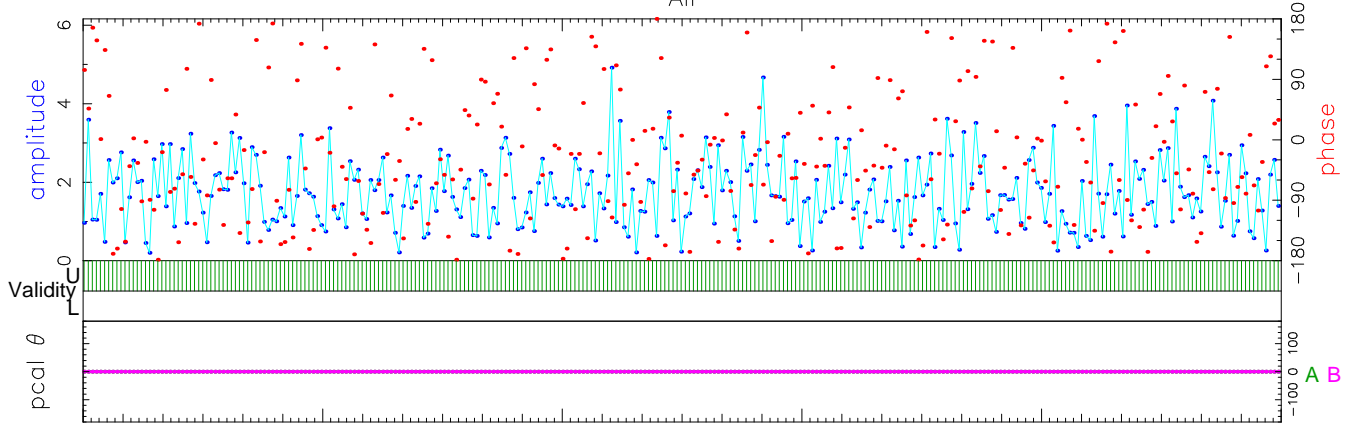
Fringe quality 8

SNR 9.9
Int time 299.970
Amp 2.054
Phase -217.9
PFD 1.3e-15
Delays (us)
SBD 0.453163
MBD 0.000007
Fringe rate (Hz)
0.938103
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
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Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051948
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-65.1
0.6
1558.8
U/L 586/0
A 0
B 0
A:B 0:0
A:B 0:0
A 1000
B 1000
A W03UY
B W03UR

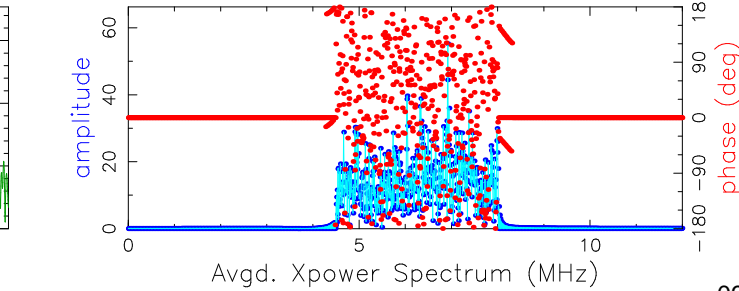
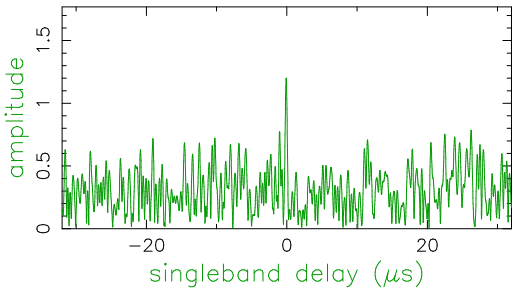
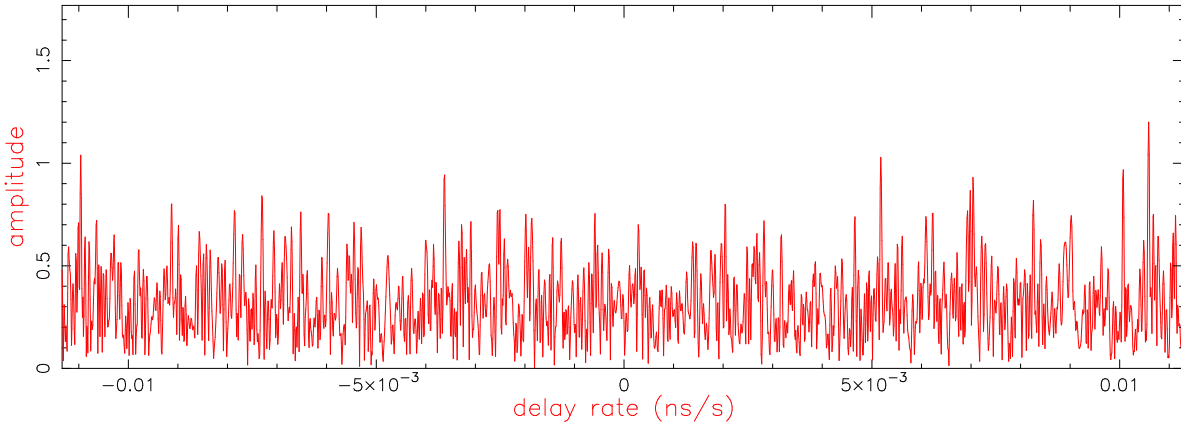
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	2.56159269177E+02	Apriori delay (usec)	2.55706109215E+02	Resid mbdelay (usec)	7.23718E-06	+/-	4.7E-03
Sband delay (usec)	2.56159271882E+02	Apriori clock (usec)	-2.0855359E+03	Resid sbdelay (usec)	4.53163E-01	+/-	4.7E-03
Phase delay (usec)	2.55706107114E+02	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-2.10069E-06	+/-	3.8E-07
Delay rate (us/s)	3.74951405148E-01	Apriori rate (us/s)	3.74940514700E-01	Resid rate (us/s)	1.08904E-05	+/-	2.2E-09
Total phase (deg)	-128.7	Apriori accel (us/s/s)	-8.64559114035E-05	Resid phase (deg)	-217.9	+/-	11.6

ph/seg (deg)	RMS 90.4	Theor. 99.5	Amplitude 2.054 +/- 0.209	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	71.0	173.7	Search (2048X8) 1.338	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	5.8	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	10.1	Inc. seg. avg. 1.049	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 2.043	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

A: az 340.4 el 29.3 pa 158.0 B: az 297.1 el 22.7 pa 43.3 u,v (fr/asec) -2710.073 -13117.369 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/AB..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/AB.W.17.1T5GV4

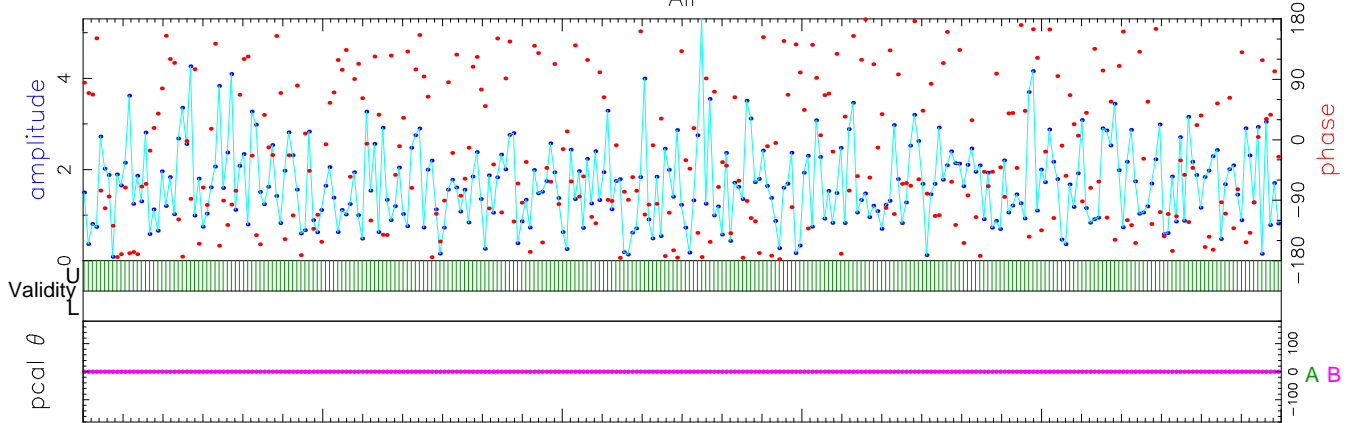
Fringe quality 8



SNR 8.7
Int time 299.972
Amp 1.769
Phase 177.4
PFD 5.4e-11
Delays (us)
SBD -0.090327
MBD 0.000004
Fringe rate (Hz)
0.910641
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051946
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86227.00
-131.8
0.5
1532.7
U/L 586/0
A 0
B 0
A:B 0:0
A:B 0:0
A 1000
B 1000
A W03UX
B W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

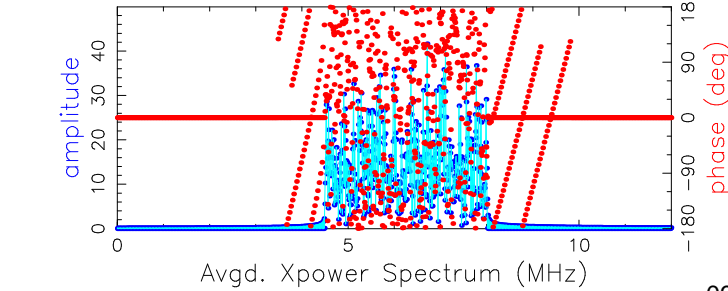
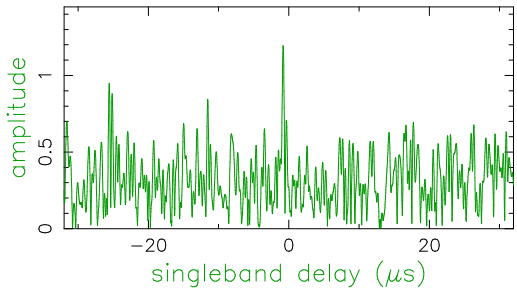
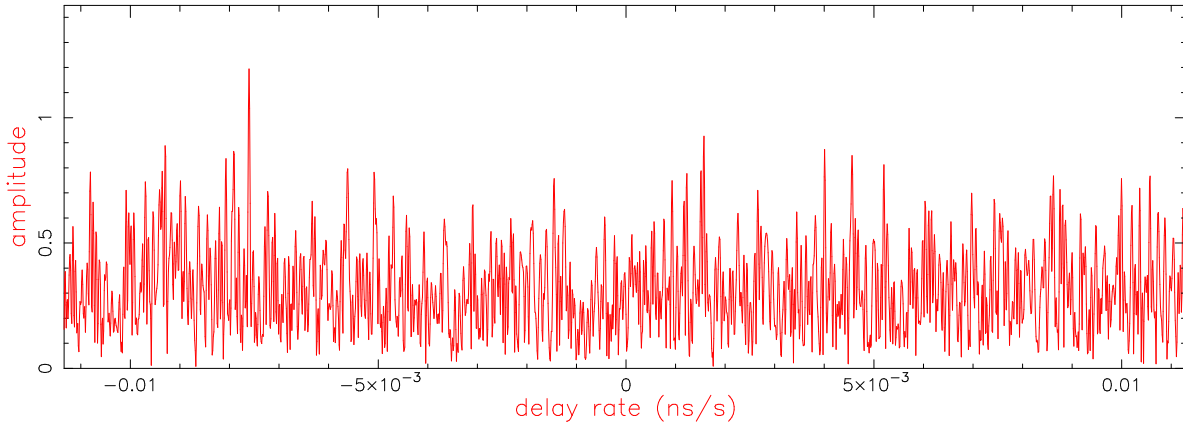
Group delay (usec)(sbd)	2.55615782231E+02	Apriori delay (usec)	2.55706109215E+02	Resid mbdelay (usec)	4.35107E-06	+/-	5.3E-03
Sband delay (usec)	2.55615782548E+02	Apriori clock (usec)	-2.0855359E+03	Resid sbdelay (usec)	-9.03267E-02	+/-	5.3E-03
Phase delay (usec)	2.55706104965E+02	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-4.25058E-06	+/-	4.2E-07
Delay rate (us/s)	3.74951086341E-01	Apriori rate (us/s)	3.74940514700E-01	Resid rate (us/s)	1.05716E-05	+/-	2.4E-09
Total phase (deg)	266.6	Apriori accel (us/s/s)	-8.64559114035E-05	Resid phase (deg)	177.4	+/-	13.2

ph/seg (deg)	RMS 96.7	Theor. 112.6	Amplitude Search (2048X8)	1.769 +/- 0.203	1.192	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	85.2	196.6	Interp.	0.000	0.000E+00	0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.848	2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000	
amp/frq (%)	70.7	11.5	Inc. frq. avg.	1.756	Sample rate(MISamp/s): 24		dr window (ns/s) -0.011 0.011	
				A: az 340.4 el 29.3 pa 158.0	B: az 297.1 el 22.7 pa 43.3	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00	
				u,v (fr/asec) -2710.073 -13117.369				simultaneous interpolator

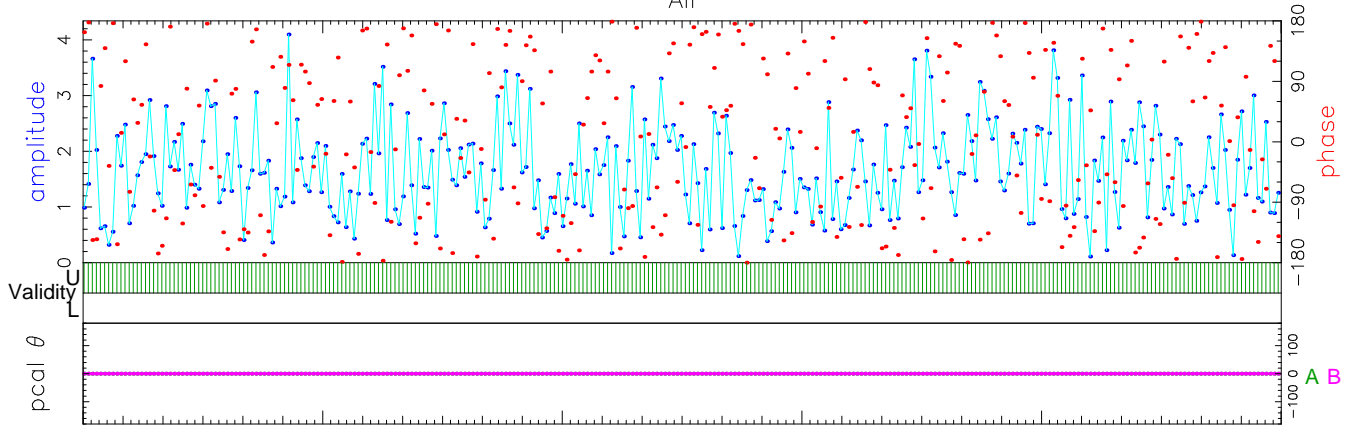
Fringe quality 8

SNR 8.7
Int time 299.972
Amp 1.448
Phase 235.8
PFD 7.8e-11
Delays (us)
SBD -0.806572
MBD -0.000006
Fringe rate (Hz)
-0.654073
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051948
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
174.0
0.4
1498.3
U/L 586/0
A 0
B 0
A:B 0:0
A:B 0:0
A 1000
B 1000
A W03UX
B W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	2.54899534057E+02	Apriori delay (usec)	2.55706109215E+02	Resid mbdelay (usec)	-6.45032E-06	+/-	5.3E-03
Sband delay (usec)	2.54899537215E+02	Apriori clock (usec)	-2.0855359E+03	Resid sbdelay (usec)	-8.06572E-01	+/-	5.3E-03
Phase delay (usec)	2.55706114827E+02	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	5.61237E-06	+/-	4.3E-07
Delay rate (us/s)	3.74932921556E-01	Apriori rate (us/s)	3.74940514700E-01	Resid rate (us/s)	-7.59314E-06	+/-	2.5E-09
Total phase (deg)	325.0	Apriori accel (us/s/s)	-8.64559114035E-05	Resid phase (deg)	235.8	+/-	13.2

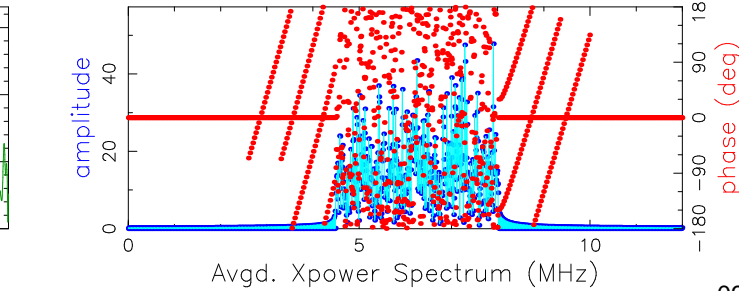
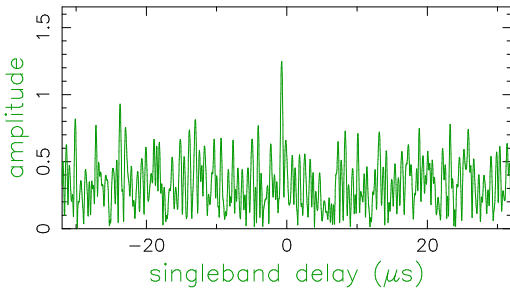
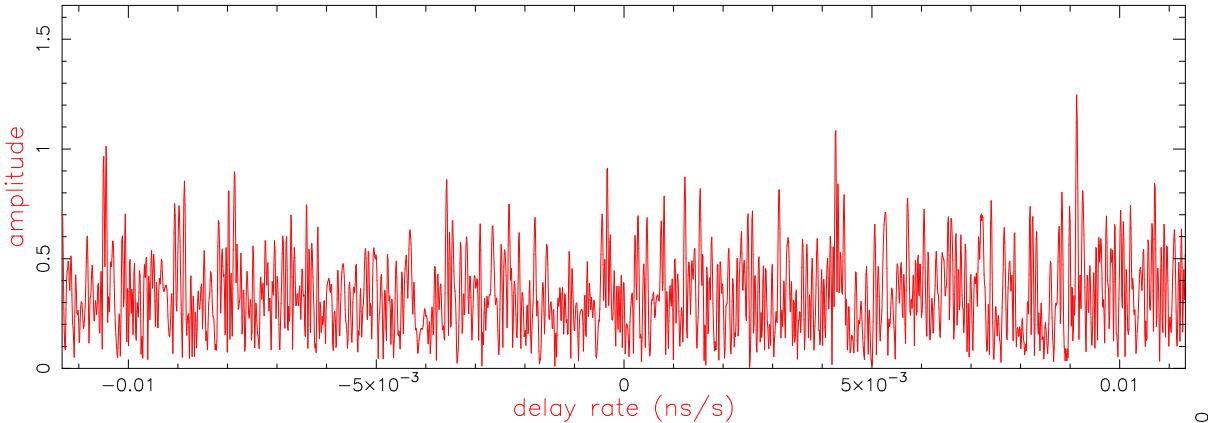
ph/seg (deg)	RMS 92.1	Theor. 113.2	Amplitude 1.448 +/- 0.167	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	78.7	197.5	Search (2048X8) 1.183	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.5	Inc. seg. avg. 0.682	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.437	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

A: az 340.4 el 29.3 pa 158.0 B: az 297.1 el 22.7 pa 43.3 u,v (fr/asec) -2710.073 -13117.369 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/AB..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/AB.W.23.1T5GV4

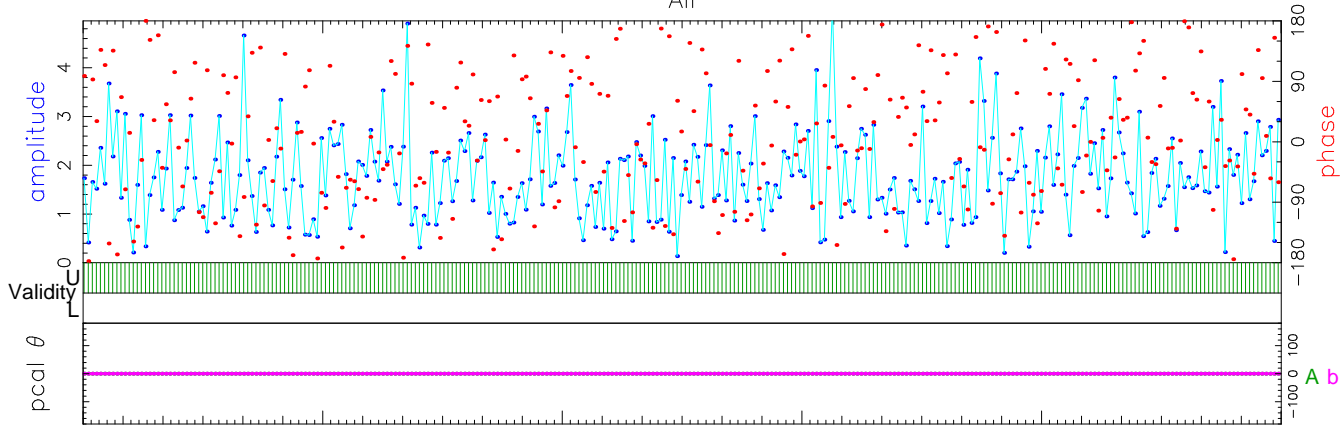
Fringe quality 8

SNR 9.0
Int time 299.955
Amp 1.655
Phase 73.5
PFD 2.7e-12
Delays (us)
SBD -0.737596
MBD 0.000007
Fringe rate (Hz)
0.786117
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
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FRT 012330.00
Corr/FF/build
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Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
11.9
0.5
1501.6
U/L 586/0
A 0
b 0
A:b 0:0
A:b 0:0
A 1000
b 1000
A W03UY
b W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

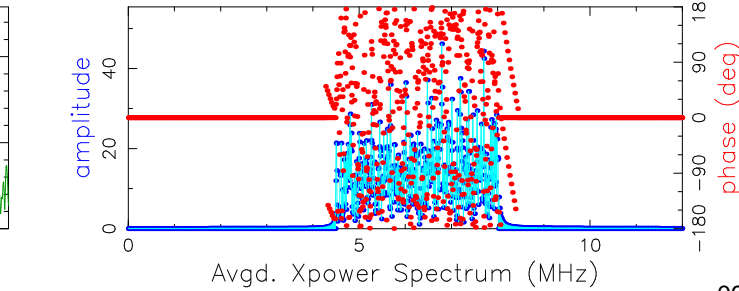
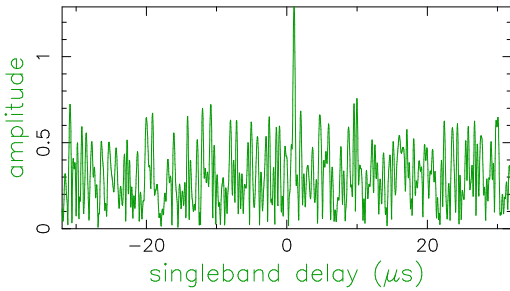
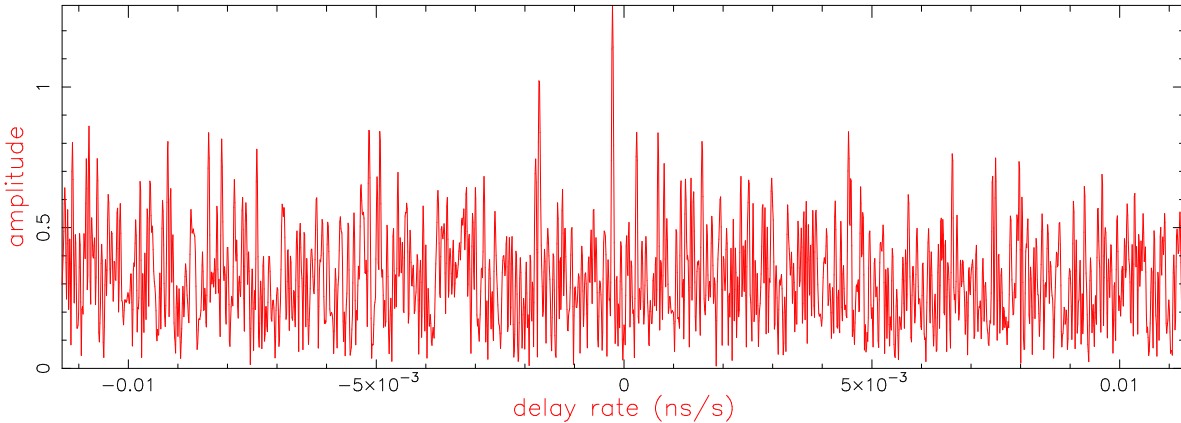
Group delay (usec)(sbd)	-1.08020411617E+04	Apriori delay (usec)	-1.08013035693E+04	Resid mbdelay (usec)	7.23648E-06	+/-	5.1E-03
Sband delay (usec)	-1.08020411653E+04	Apriori clock (usec)	-2.1046130E-03	Resid sbdelay (usec)	-7.37596E-01	+/-	5.1E-03
Phase delay (usec)	-1.08013035690E+04	Apriori clockrate (us/s)	-1.1300001E-06	Resid phdelay (usec)	3.84722E-07	+/-	4.1E-07
Delay rate (us/s)	-8.66730921826E-01	Apriori rate (us/s)	-8.66740047862E-01	Resid rate (us/s)	9.12604E-06	+/-	2.4E-09
Total phase (deg)	266.8	Apriori accel (us/s/s)	-2.60217206302E-05	Resid phase (deg)	73.5	+/-	12.7

ph/seg (deg)	RMS 92.0	Theor. 108.4	Amplitude Search (2048X8)	1.655 +/- 0.183	1.223	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	83.6	189.2	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.3	Inc. seg. avg.	0.847	Bits/sample: 2x2	Sample rate(MSamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.1	Inc. frq. avg.	1.643	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
A: az 340.4 el 29.3 pa 158.0		b: az 109.2 el 63.1 pa -50.1		u,v (fr/asec) 5992.727 -9728.277		ion window (TEC) 0.00 0.00	

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Ab..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Ab.W.28.1T5GV4

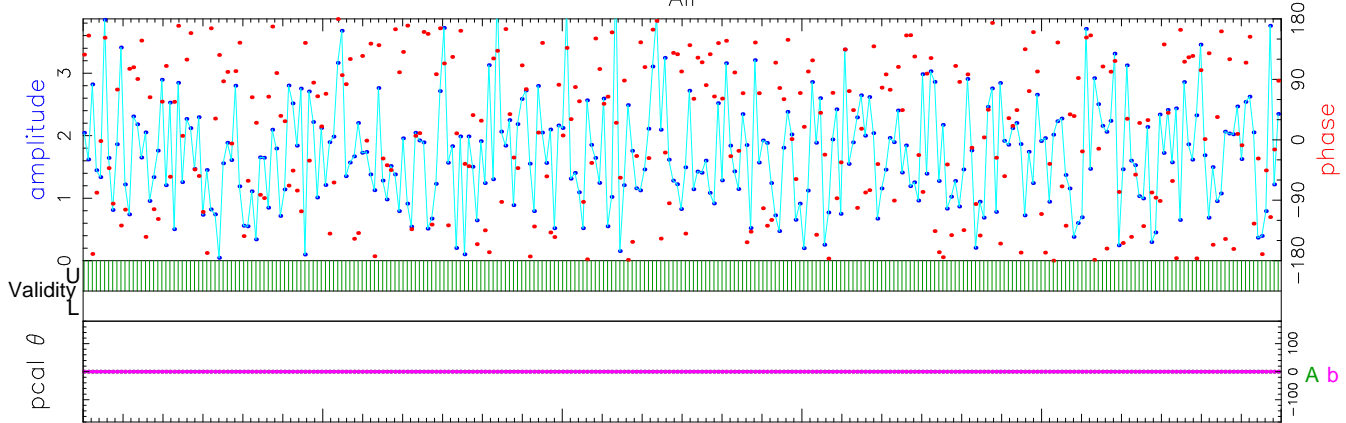
simultaneous interpolator

Fringe quality 8



SNR 9.4
Int time 299.957
Amp 1.290
Phase -227.8
PFD 1.6e-13
Delays (us)
SBD 1.000000
MBD -0.000007
Fringe rate (Hz)
-0.019857
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051949
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
132.6
0.4
1586.5
U/L 586/0
A 0
b 0
A:b 0:0
A:b 0:0
A 1000
b 1000
A W03UX
b W03UR

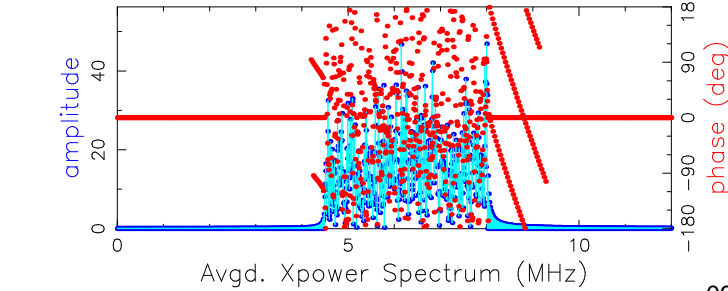
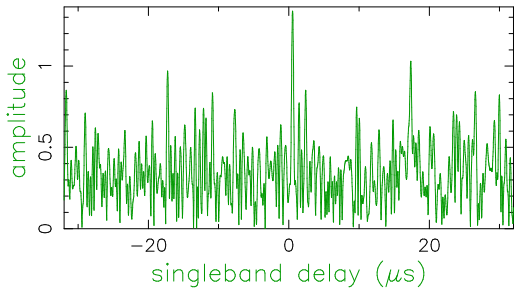
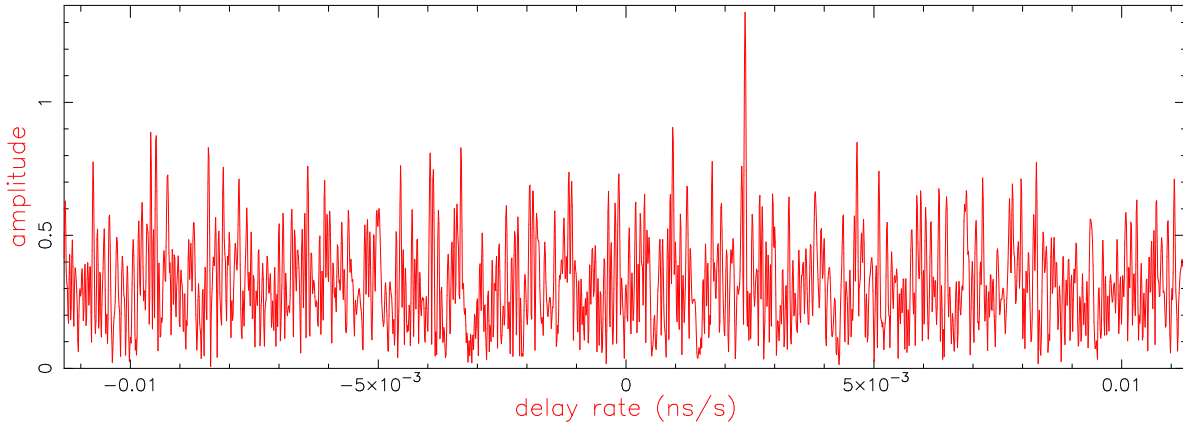
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.08003035650E+04	Apriori delay (usec)	-1.08013035693E+04	Resid mbdelay (usec)	-7.23829E-06	+/- 4.9E-03
Sband delay (usec)	-1.08003035693E+04	Apriori clock (usec)	-2.1046130E+03	Resid sbdelay (usec)	1.00000E+00	+/- 4.9E-03
Phase delay (usec)	-1.08013035651E+04	Apriori clockrate (us/s)	-1.1300001E-06	Resid phdelay (usec)	4.27636E-06	+/- 4.0E-07
Delay rate (us/s)	-8.66740278388E-01	Apriori rate (us/s)	-8.66740047862E-01	Resid rate (us/s)	-2.30526E-07	+/- 2.3E-09
Total phase (deg)	-34.5	Apriori accel (us/s/s)	-2.60217206302E-05	Resid phase (deg)	-227.8	+/- 12.3

ph/seg (deg)	RMS 95.0	Theor. 104.9	Amplitude Search (2048X8)	1.281	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	74.4	183.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.1	Inc. seg. avg.	0.646	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	10.7	Inc. frq. avg.	1.283	Sample rate(MSamp/s): 24	mb window (us) -0.000 0.000
					Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
					nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

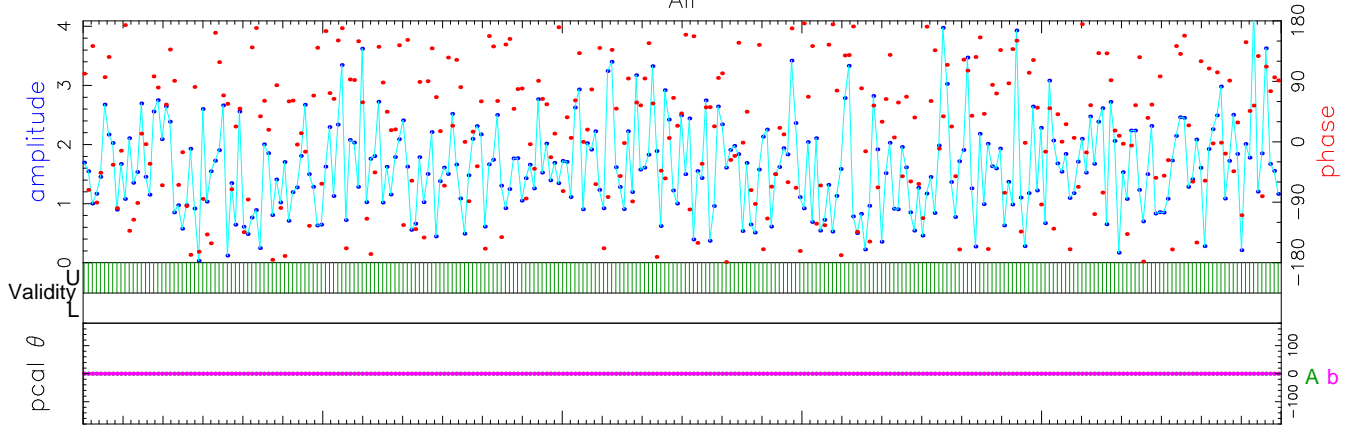
A: az 340.4 el 29.3 pa 158.0 b: az 109.2 el 63.1 pa -50.1 u,v (fr/asec) 5992.727 -9728.277 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Ab..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Ab.W.33.1T5GV4

Fringe quality 8



SNR 9.7
Int time 299.957
Amp 1.365
Phase -110.2
PFD 5.1e-15
Delays (us)
SBD 0.534728
MBD 0.000006
Fringe rate (Hz)
0.206277
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051946
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
77.1
0.4
1562.7
U/L 586/0
A 0
b 0
A:b 0:0
A:b 0:0
A 1000
b 1000
A W03UX
b W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.08007688465E+04	Apriori delay (usec)	-1.08013035693E+04	Resid mbdelay (usec)	6.31848E-06	+/-	4.7E-03
Sband delay (usec)	-1.08007688413E+04	Apriori clock (usec)	-2.1046130E+03	Resid sbdelay (usec)	5.34728E-01	+/-	4.7E-03
Phase delay (usec)	-1.08013035669E+04	Apriori clockrate (us/s)	-1.1300001E-06	Resid phdelay (usec)	2.48686E-06	+/-	3.8E-07
Delay rate (us/s)	-8.66737653191E-01	Apriori rate (us/s)	-8.66740047862E-01	Resid rate (us/s)	2.39467E-06	+/-	2.2E-09
Total phase (deg)	-277.0	Apriori accel (us/s/s)	-2.60217206302E-05	Resid phase (deg)	-110.2	+/-	11.8

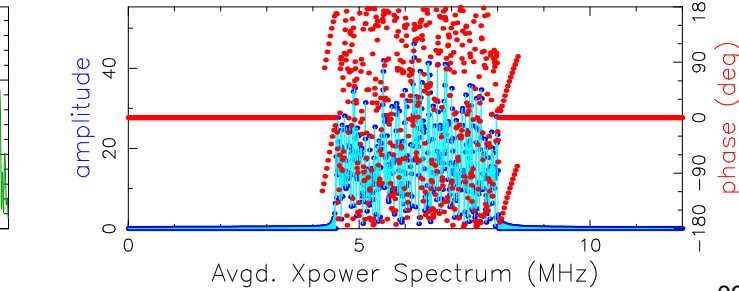
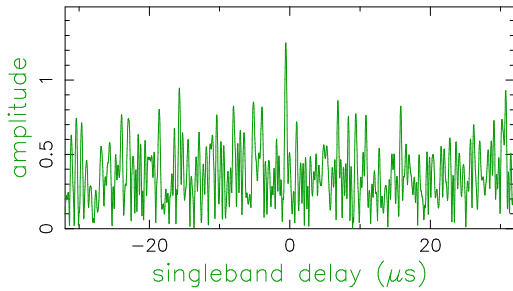
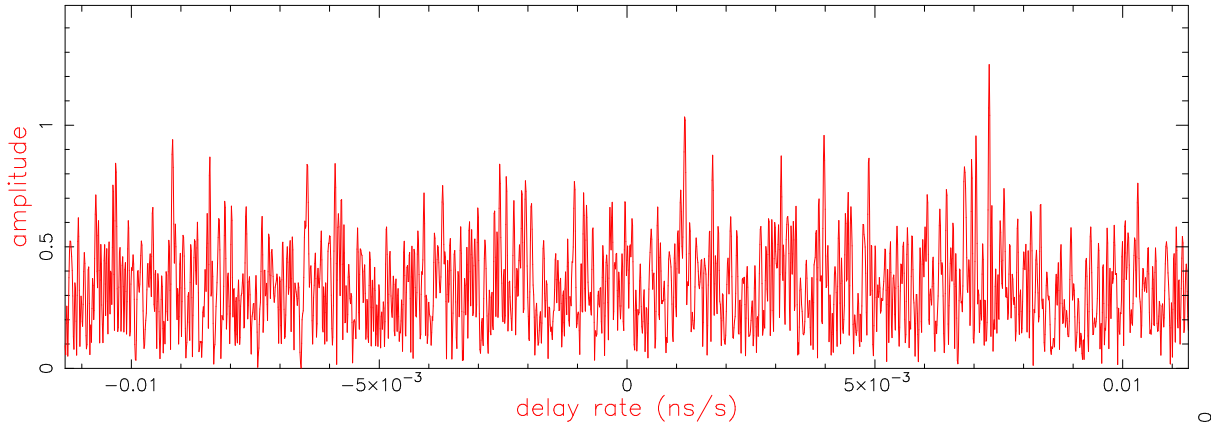
ph/seg (deg)	RMS 93.2	Theor. 101.0	Amplitude Search (2048X8)	1.365 +/- 0.140	1.317	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	62.3	176.2	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	5.9	Inc. seg. avg.	0.647	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.3	Inc. frq. avg.	1.356	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
A: az 340.4 el 29.3 pa 158.0		b: az 109.2 el 63.1 pa -50.1		u,v (fr/asec) 5992.727 -9728.277		ion window (TEC) 0.00 0.00	

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Ab..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Ab.W.4.1T5GV4 simultaneous interpolator

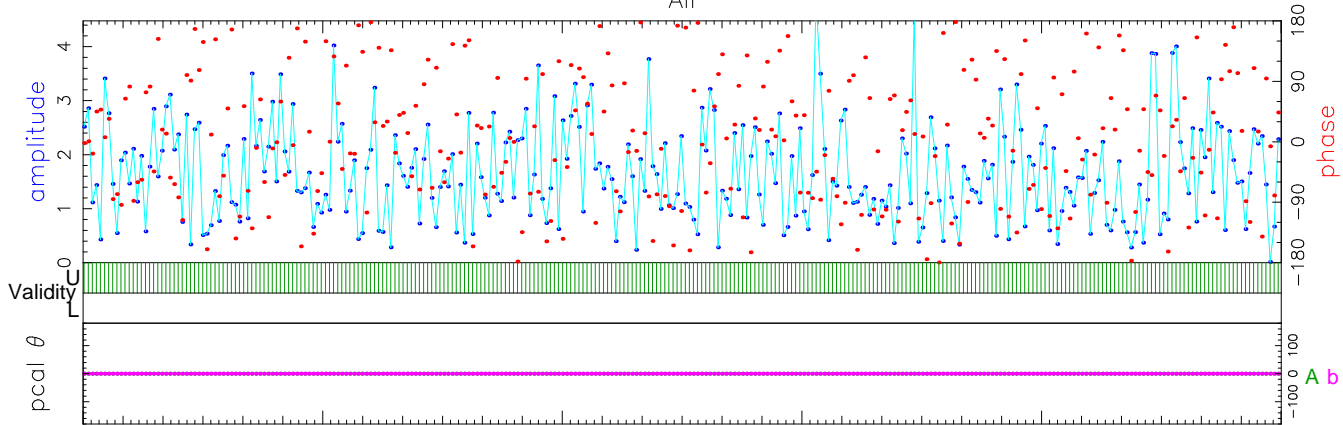
Fringe quality 8

SNR 9.1
Int time 299.955
Amp 1.493
Phase 329.9
PFD 2.2e-12
Delays (us)
SBD -0.573844
MBD 0.000004
Fringe rate (Hz)
0.628556
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051951
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



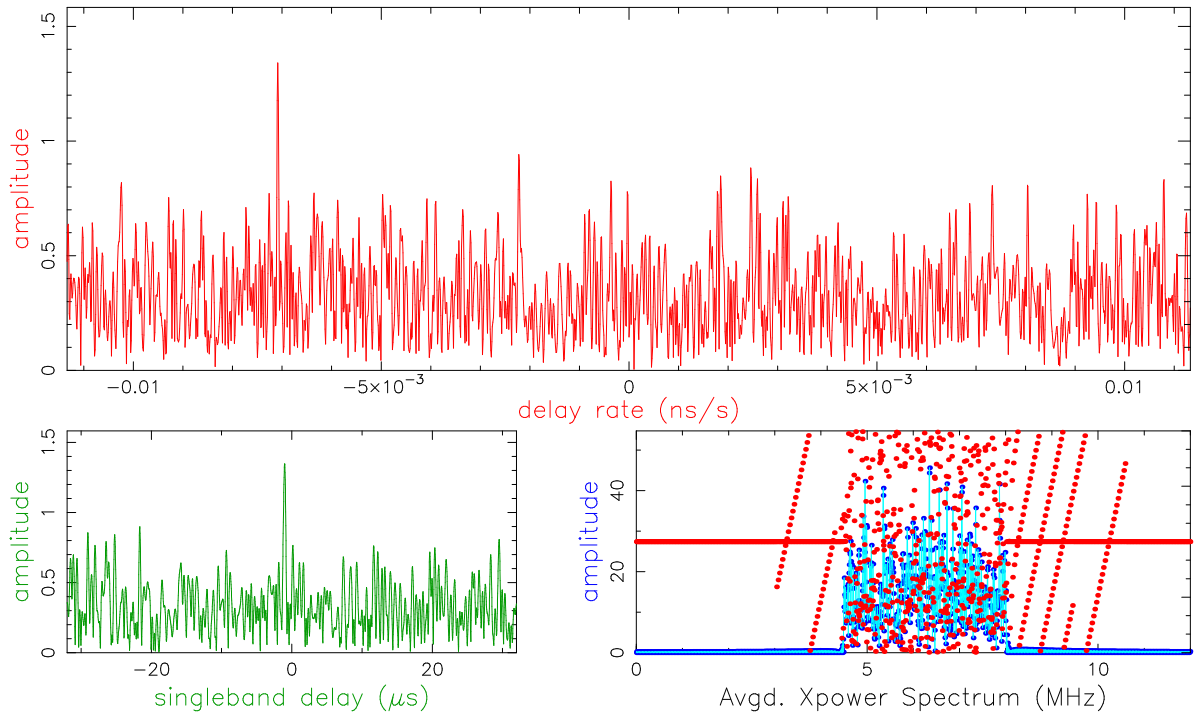
86227.00
-3.0
0.4
1509.5
U/L 586/0
A 0
b 0
A:b 0:0
A:b 0:0
A 1000
b 1000
A W03UY
b W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.08018774108E+04	Apriori delay (usec)	-1.08013035693E+04	Resid mbdelay (usec)	4.35434E-06	+/-	5.1E-03
Sband delay (usec)	-1.08018774133E+04	Apriori clock (usec)	-2.1046130E-03	Resid sbdelay (usec)	-5.73844E-01	+/-	5.1E-03
Phase delay (usec)	-1.08013035694E+04	Apriori clockrate (us/s)	-1.1300001E-06	Resid phdelay (usec)	-9.62511E-08	+/-	4.1E-07
Delay rate (us/s)	-8.66732750956E-01	Apriori rate (us/s)	-8.66740047862E-01	Resid rate (us/s)	7.29691E-06	+/-	2.4E-09
Total phase (deg)	163.1	Apriori accel (us/s/s)	-2.60217206302E-05	Resid phase (deg)	329.9	+/-	12.6

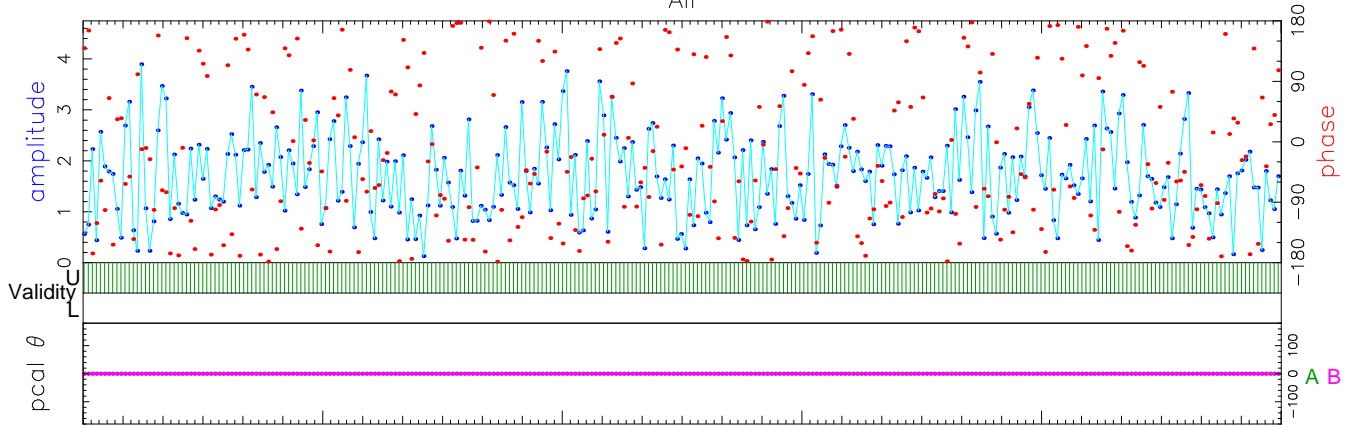
ph/seg (deg)	RMS 94.5	Theor. 108.1	Amplitude Search (2048X8)	1.493 +/- 0.165	1.240	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.1	188.7	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.3	Inc. seg. avg.	0.713	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000	dr window (ns/s) -0.011 0.011
amp/frq (%)	70.7	11.0	Inc. frq. avg.	1.482	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00	nlags: 1536 t_cohere infinite

A: az 340.4 el 29.3 pa 158.0 b: az 109.2 el 63.1 pa -50.1 u,v (fr/asec) 5992.727 -9728.277 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Ab..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Ab.W.47.1T5GV4



Fringe quality 8
SNR 9.7
Int time 299.970
Amp 1.583
Phase 232.3
PFD 4.7e-15
Delays (us)
SBD -1.000000
MBD -0.000005
Fringe rate (Hz)
-0.609901
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051951
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-127.7
0.5
1488.0
U/L 586/0
A 0
B 0
A:B 0:0
A:B 0:0
A 1000
B 1000
A W03UY
B W03UL

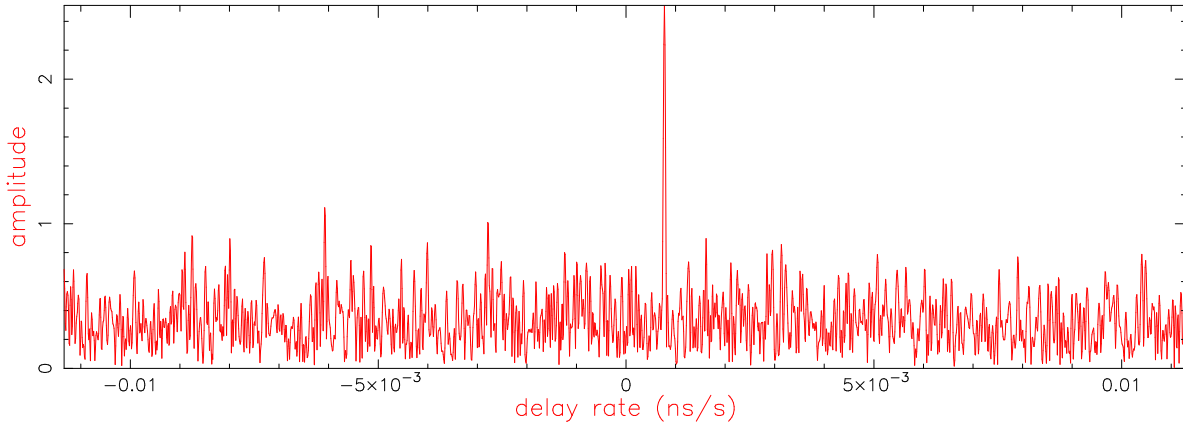
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	2.54706104448E+02	Apriori delay (usec)	2.55706109215E+02	Resid mbdelay (usec)	-4.76705E-06	+/- 4.7E-03
Sband delay (usec)	2.54706109215E+02	Apriori clock (usec)	-2.0855359E+03	Resid sbdelay (usec)	-1.00000E+00	+/- 4.7E-03
Phase delay (usec)	2.55706105098E+02	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-4.11681E-06	+/- 3.8E-07
Delay rate (us/s)	3.74933434352E-01	Apriori rate (us/s)	3.74940514700E-01	Resid rate (us/s)	-7.08035E-06	+/- 2.2E-09
Total phase (deg)	321.5	Apriori accel (us/s/s)	-8.64559114035E-05	Resid phase (deg)	232.3	+/- 11.8

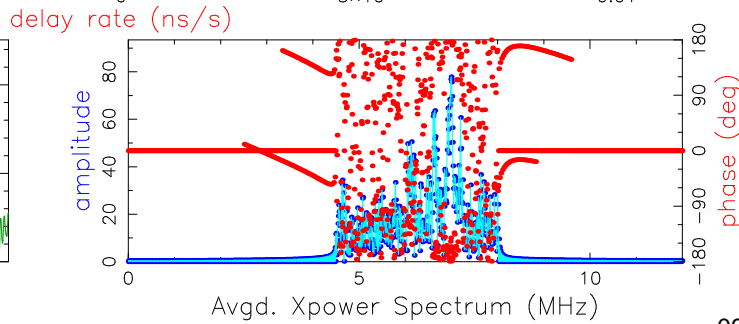
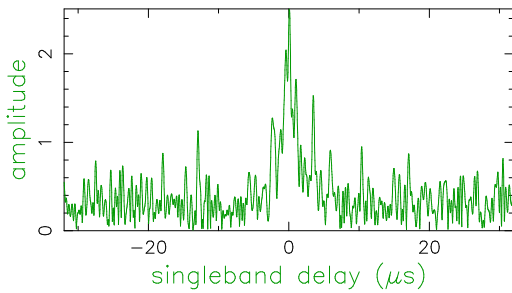
ph/seg (deg)	RMS 90.5	Theor. 100.9	Amplitude 1.583 +/- 0.163	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	68.1	176.1	Search (2048X8) 1.293	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	5.9	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	10.3	Inc. seg. avg. 0.797	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.574	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

A: az 340.4 el 29.3 pa 158.0 B: az 297.1 el 22.7 pa 43.3 u,v (fr/asec) -2710.073 -13117.369 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/AB..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/AB.W.49.1T5GV4

Fringe quality 7

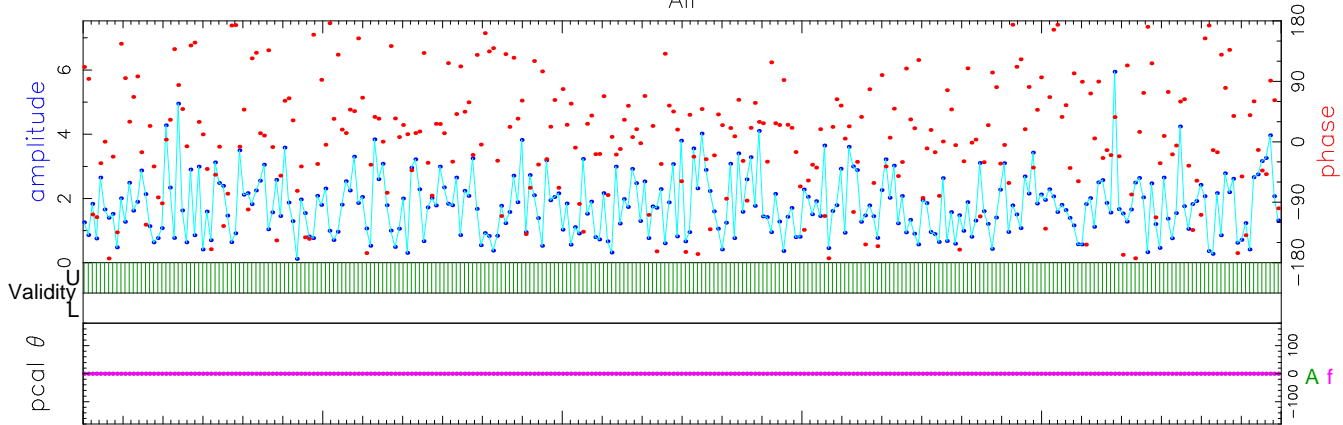


SNR 18.2
Int time 299.971
Amp 2.510
Phase -128.6
PFD 0.0e+00
Delays (us)
SBD 0.085124
MBD 0.000007
Fringe rate (Hz)
0.066462
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051947
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
17.2
0.7
1541.1
U/L 586/0
A 0
f 0
A:f 0:0
A:f 0:0
A 1000
f 1000
A W03UY
f W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.24944656679E+04	Apriori delay (usec)	-1.24945507874E+04	Resid mbdelay (usec)	6.99025E-06	+/-	2.5E-03
Sband delay (usec)	-1.24944656634E+04	Apriori clock (usec)	-2.1178650E+03	Resid sbdelay (usec)	8.51240E-02	+/-	2.5E-03
Phase delay (usec)	-1.24945507869E+04	Apriori clockrate (us/s)	-1.3800001E-06	Resid phdelay (usec)	5.53789E-07	+/-	2.0E-07
Delay rate (us/s)	-7.11906074057E-01	Apriori rate (us/s)	-7.11906845618E-01	Resid rate (us/s)	7.71561E-07	+/-	1.2E-09
Total phase (deg)	-67.2	Apriori accel (us/s/s)	-2.10230929183E-06	Resid phase (deg)	-128.6	+/-	6.3

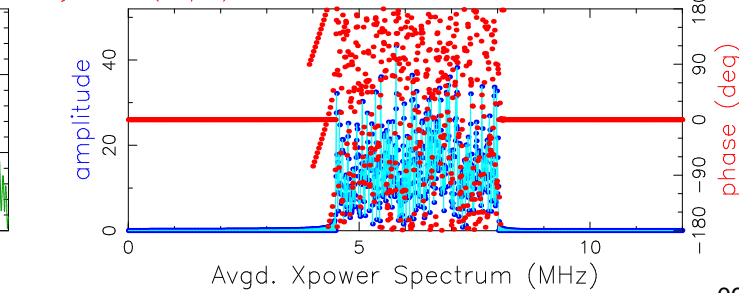
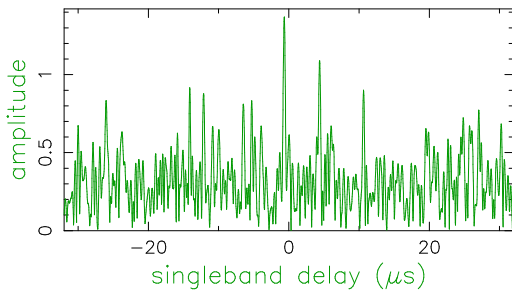
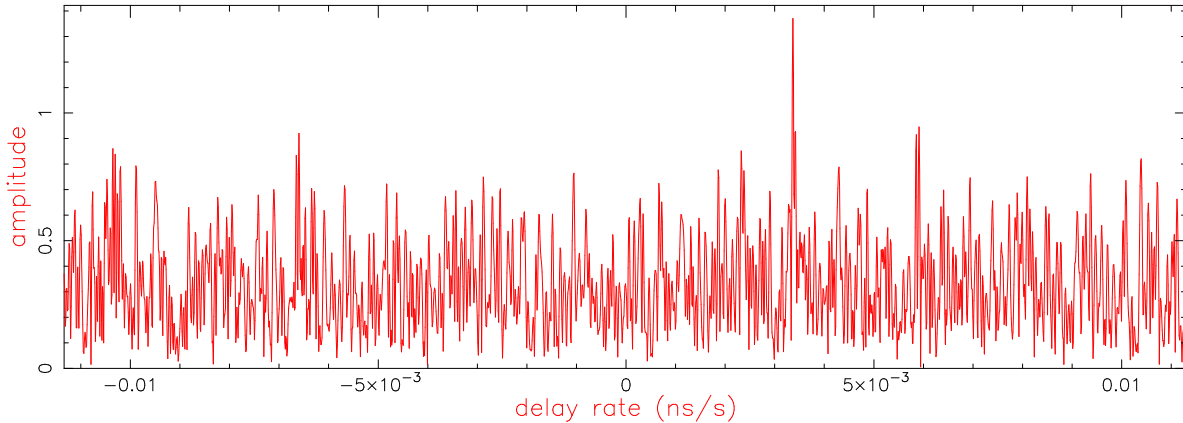
ph/seg (deg)	83.2	Theor.	54.0	Amplitude	2.510 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	47.3		94.2	Search (2048X8)	2.463	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		3.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		5.5	Inc. seg. avg.	1.248	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	2.506	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

A: az 340.4 el 29.3 pa 158.0 f: az 69.7 el 76.5 pa -101.8 u,v (fr/asec) 4948.395 -6715.368 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Af..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Af.W.13.1T5GV4

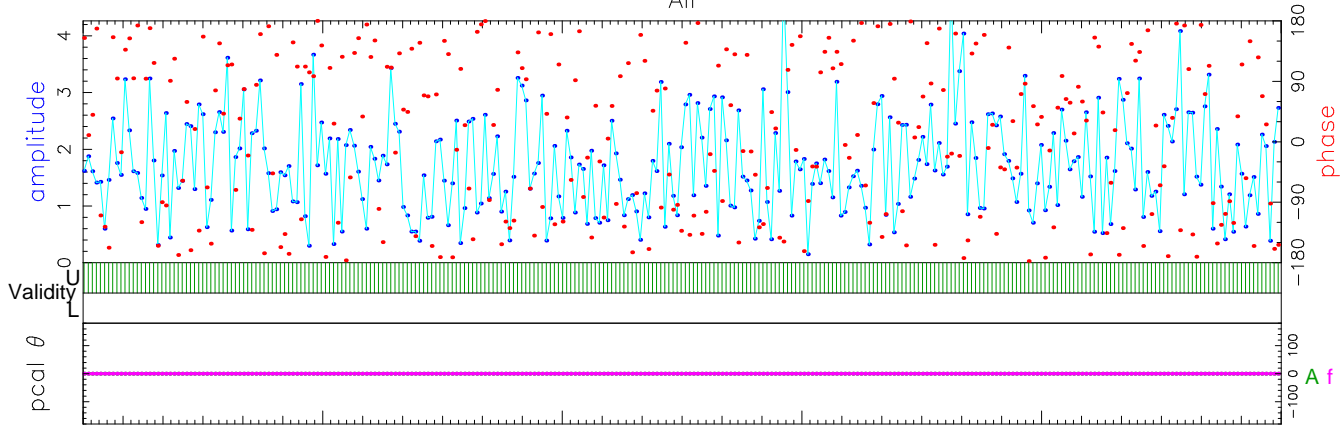
Fringe quality 8

SNR 9.9
Int time 299.973
Amp 1.422
Phase 21.7
PFD 5.6e-16
Delays (us)
SBD -0.650789
MBD 0.000006
Fringe rate (Hz)
0.289813
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051946
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
158.8
0.4
1505.8
U/L 586/0
A 0
f 0
A:f 0:0
A:f 0:0
A 1000
f 1000
A W03UX
f W03UL

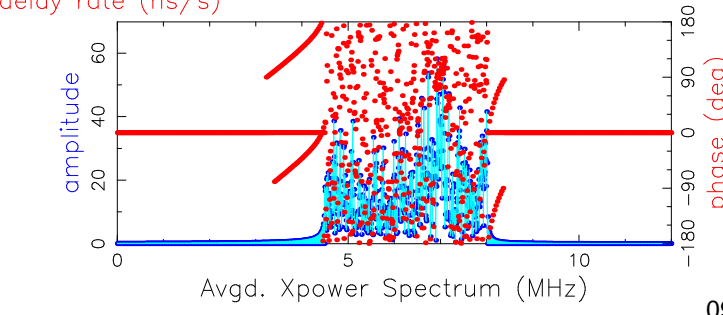
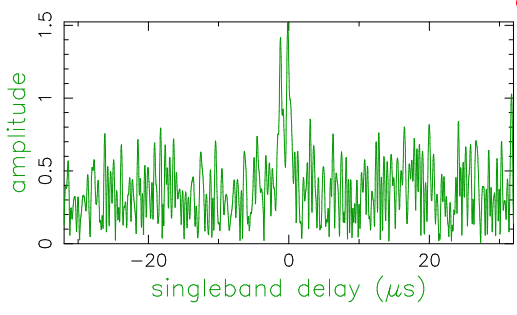
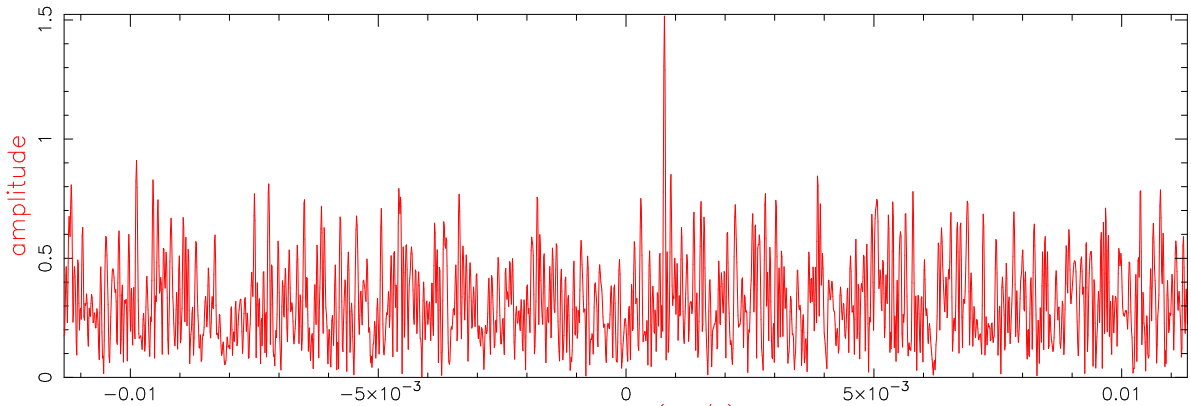
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.24952015753E+04	Apriori delay (usec)	-1.24945507874E+04	Resid mbdelay (usec)	6.01547E-06	+/-	4.6E-03
Sband delay (usec)	-1.24952015768E+04	Apriori clock (usec)	-2.1178650E-03	Resid sbdelay (usec)	-6.50789E-01	+/-	4.6E-03
Phase delay (usec)	-1.24945507823E+04	Apriori clockrate (us/s)	-1.3800001E-06	Resid phdelay (usec)	5.12126E-06	+/-	3.7E-07
Delay rate (us/s)	-7.11903481181E-01	Apriori rate (us/s)	-7.11906845618E-01	Resid rate (us/s)	3.36444E-06	+/-	2.1E-09
Total phase (deg)	83.0	Apriori accel (us/s/s)	-2.10230929183E-06	Resid phase (deg)	21.7	+/-	11.5

ph/seg (deg)	RMS 90.6	Theor. 98.7	Amplitude Search (2048X8)	1.422 +/- 0.143	1.361	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	68.2	172.2	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	5.8	Inc. seg. avg.	0.719	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.1	Inc. frq. avg.	1.414	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

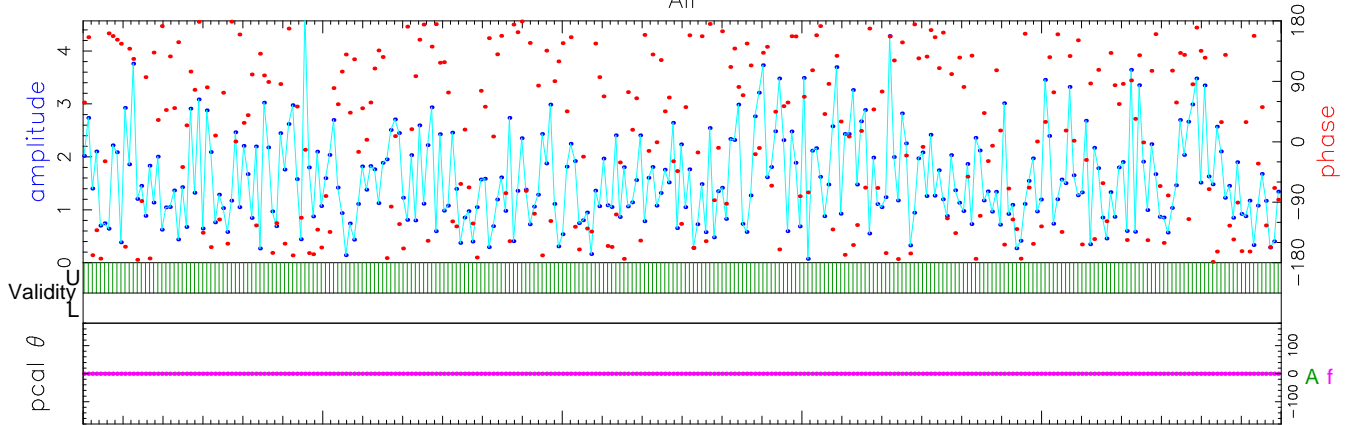
A: az 340.4 el 29.3 pa 158.0 f: az 69.7 el 76.5 pa -101.8 u,v (fr/asec) 4948.395 -6715.368 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Af..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Af.W.3.1T5GV4

Fringe quality 7



SNR 11.0
Int time 299.973
Amp 1.523
Phase 204.8
PFD 6.4e-21
Delays (us)
SBD -0.151359
MBD 0.000005
Fringe rate (Hz)
0.066278
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051949
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
144.0
0.4
1529.7
U/L 586/0
A 0
f 0
A:f 0:0
A:f 0:0
A 1000
f 1000
A W03UX
f W03UR

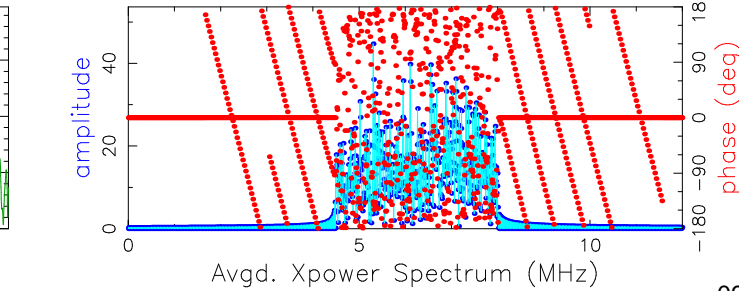
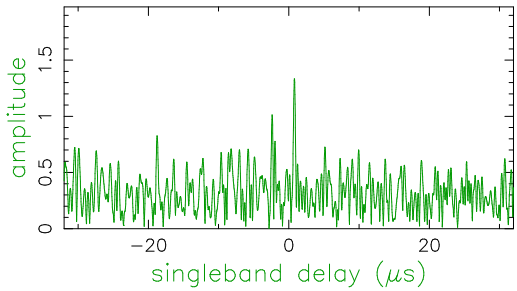
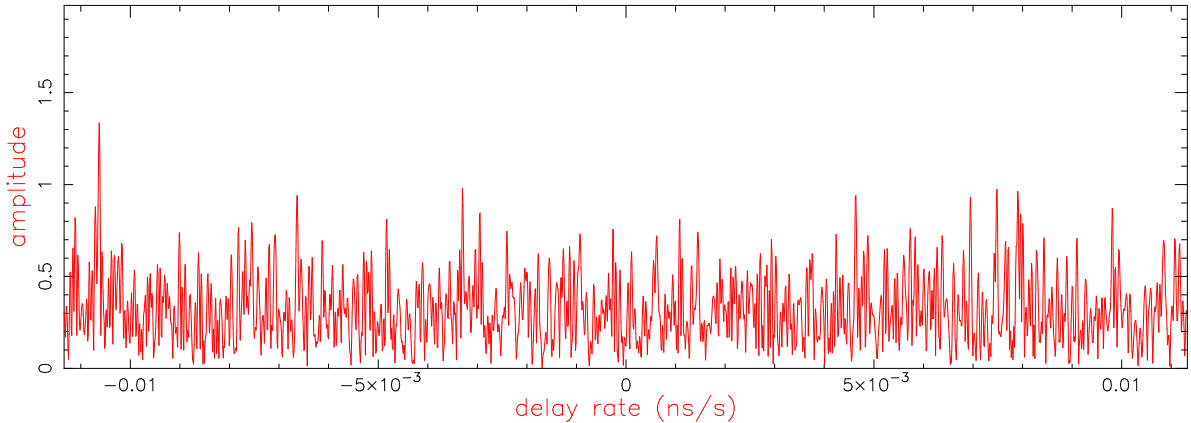
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.24947021506E+04	Apriori delay (usec)	-1.24945507874E+04	Resid mbdelay (usec)	4.76677E-06	+/-	4.2E-03
Sband delay (usec)	-1.24947021461E+04	Apriori clock (usec)	-2.1178650E+03	Resid sbdelay (usec)	-1.51359E-01	+/-	4.2E-03
Phase delay (usec)	-1.24945507828E+04	Apriori clockrate (us/s)	-1.3800001E-06	Resid phdelay (usec)	4.64253E-06	+/-	3.4E-07
Delay rate (us/s)	-7.11906076195E-01	Apriori rate (us/s)	-7.11906845618E-01	Resid rate (us/s)	7.69423E-07	+/-	1.9E-09
Total phase (deg)	266.2	Apriori accel (us/s/s)	-2.10230929183E-06	Resid phase (deg)	204.8	+/-	10.4

ph/seg (deg)	RMS 86.3	Theor. 89.0	Amplitude Search (2048X8)	1.523 +/- 0.138	1.454	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	56.7	155.2	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	5.2	Inc. seg. avg.	0.720	0.720	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.8	9.1	Inc. frq. avg.	1.513	1.513	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

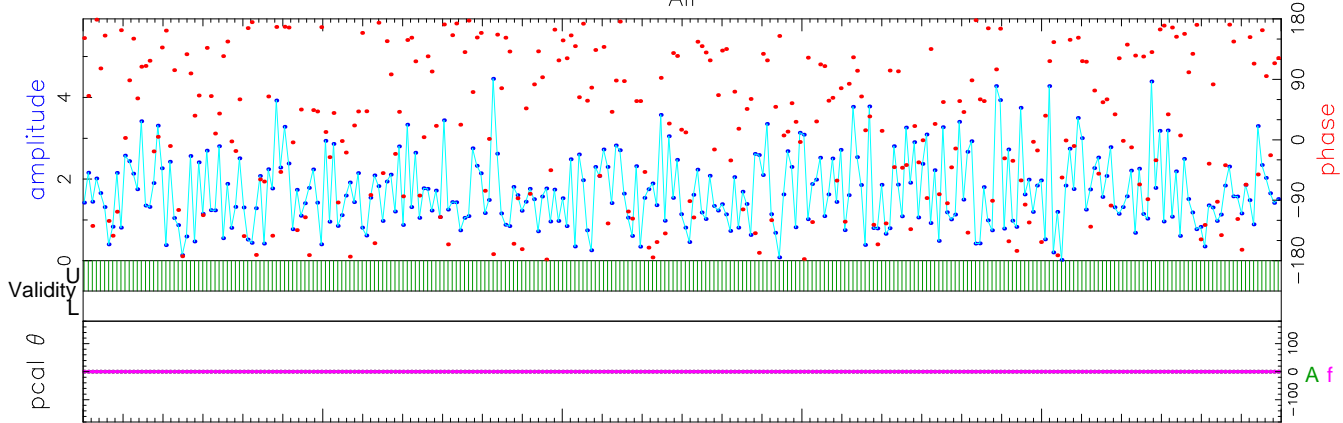
A: az 340.4 el 29.3 pa 158.0 f: az 69.7 el 76.5 pa -101.8 u,v (fr/asec) 4948.395 -6715.368 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Af..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Af.W.35.1T5GV4

Fringe quality 8



SNR 9.7
Int time 299.971
Amp 1.975
Phase -36.4
PFD 7.0e-15
Delays (us)
SBD 0.797837
MBD -0.000005
Fringe rate (Hz)
-0.914964
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051952
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



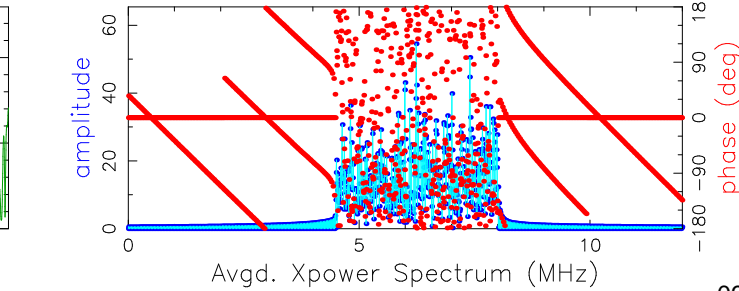
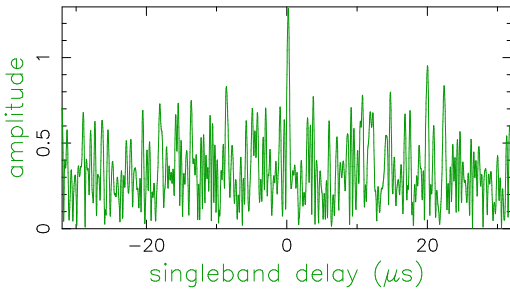
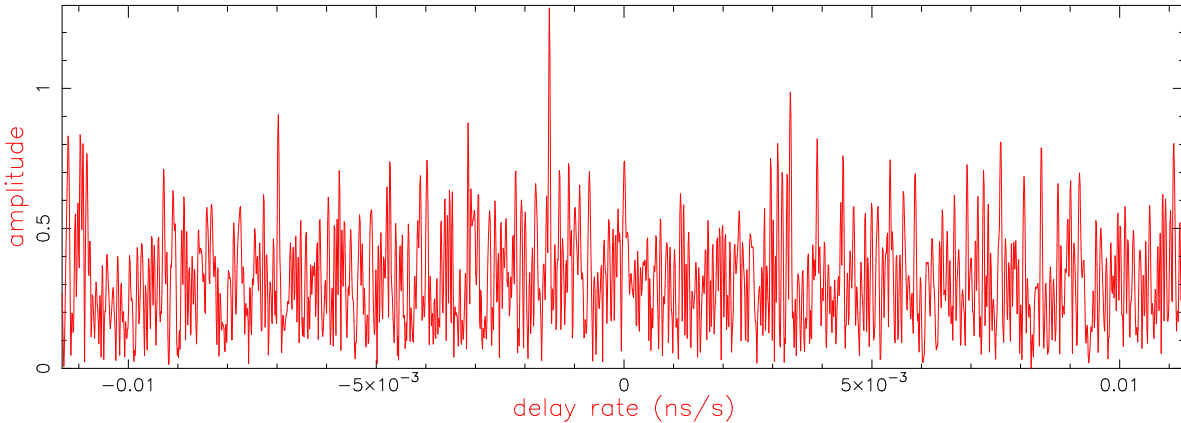
86227.00
112.2
0.6
1575.3
U/L 586/0
A 0
f 0
A:f 0:0
A:f 0:0
A 1000
f 1000
A W03UY
f W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.24937529446E+04	Apriori delay (usec)	-1.24945507874E+04	Resid mbdelay (usec)	-4.70219E-06	+/-	4.7E-03
Sband delay (usec)	-1.24937529501E+04	Apriori clock (usec)	-2.1178650E+03	Resid sbdelay (usec)	7.97837E-01	+/-	4.7E-03
Phase delay (usec)	-1.24945507838E+04	Apriori clockrate (us/s)	-1.3800001E-06	Resid phdelay (usec)	3.61871E-06	+/-	3.8E-07
Delay rate (us/s)	-7.11917467444E-01	Apriori rate (us/s)	-7.11906845618E-01	Resid rate (us/s)	-1.06218E-05	+/-	2.2E-09
Total phase (deg)	-335.0	Apriori accel (us/s/s)	-2.10230929183E-06	Resid phase (deg)	-36.4	+/-	11.8

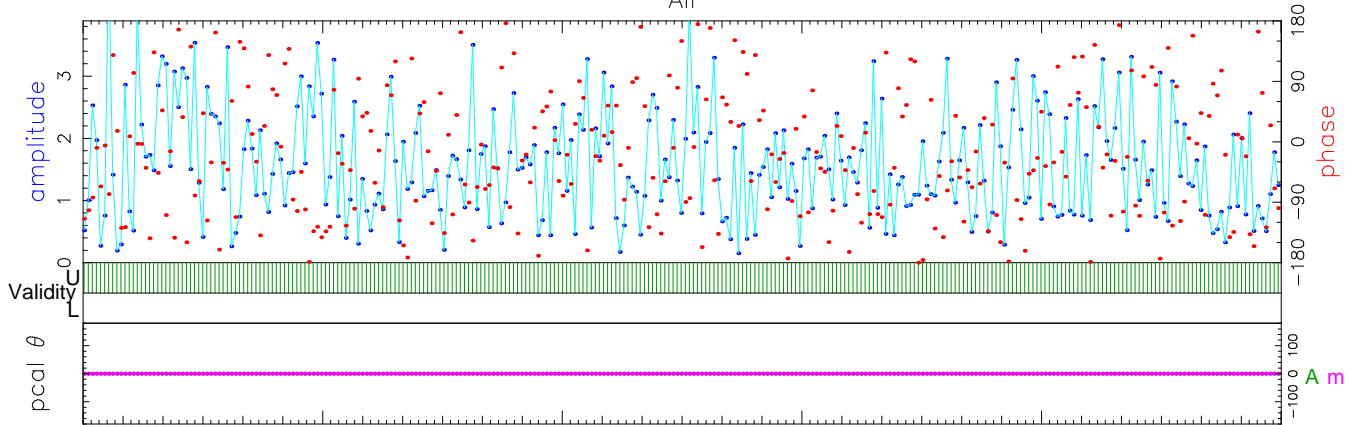
ph/seg (deg)	RMS 91.9	Theor. 101.3	Amplitude Search (2048X8)	1.975 +/- 0.204	1.302	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	72.6	176.8	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	5.9	Inc. seg. avg.	0.986	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	10.3	Inc. frq. avg.	1.963	Sample rate(MISamp/s): 24		dr window (ns/s)	-0.011 0.011
				A: az 340.4 el 29.3 pa 158.0	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00
				f: az 69.7 el 76.5 pa -101.8	u,v (fr/asec) 4948.395 -6715.368			

Fringe quality 8



SNR 9.3
Int time 299.983
Amp 1.297
Phase -31.3
PFD 1.9e-13
Delays (us)
SBD 0.205945
MBD -0.000005
Fringe rate (Hz)
-0.129740
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051947
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-61.1
0.4
1546.9
U/L 586/0
A 0
m 0
A:m 0:0
A:m 0:0
A 1000
m 1000
A W03UX
m W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.53580518896E+03	Apriori delay (usec)	-2.53601112899E+03	Resid mbdelay (usec)	-4.75007E-06	+/-	4.9E-03
Sband delay (usec)	-2.53580518365E+03	Apriori clock (usec)	-2.1233208E+03	Resid sbdelay (usec)	2.05945E-01	+/-	4.9E-03
Phase delay (usec)	-2.53601113096E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-1.97144E-06	+/-	4.0E-07
Delay rate (us/s)	-1.53687524048E+00	Apriori rate (us/s)	-1.53687373432E+00	Resid rate (us/s)	-1.50615E-06	+/-	2.3E-09
Total phase (deg)	-265.6	Apriori accel (us/s/s)	-4.42216704332E-05	Resid phase (deg)	-31.3	+/-	12.3

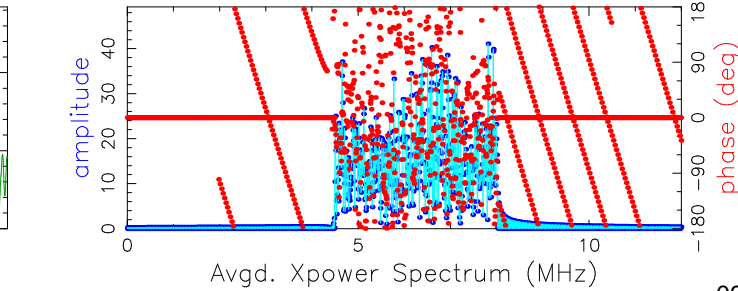
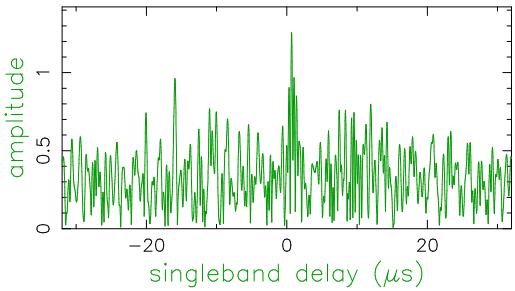
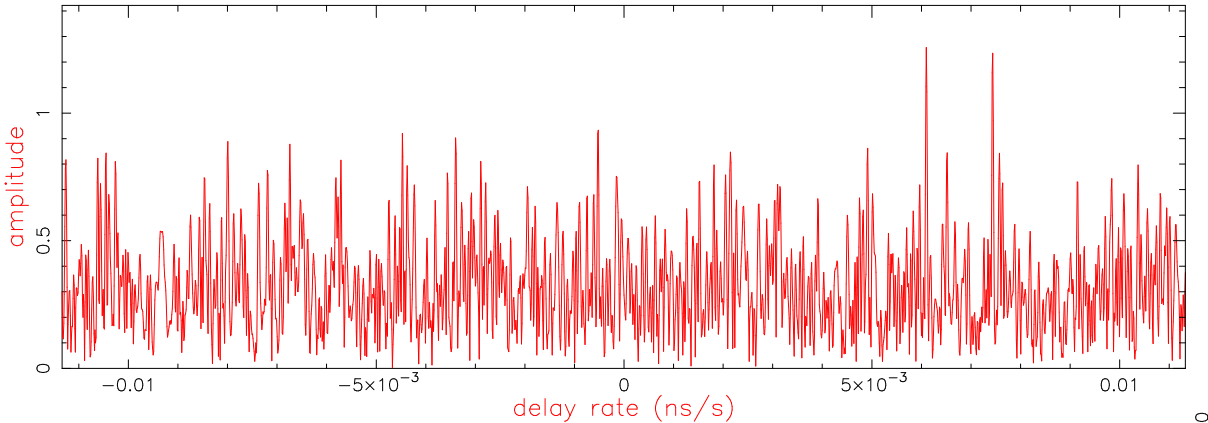
ph/seg (deg)	RMS 92.4	Theor. 105.1	Amplitude Search (2048X8)	1.277	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	71.8	183.4	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.1	Inc. seg. avg.	0.598	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	10.7	Inc. frq. avg.	1.289	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

A: az 340.4 el 29.3 pa 158.0 m: az 60.9 el 29.7 pa -85.7 u,v (fr/asec) 10615.657 -7778.099 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Am..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Am.W.11.1T5GV4

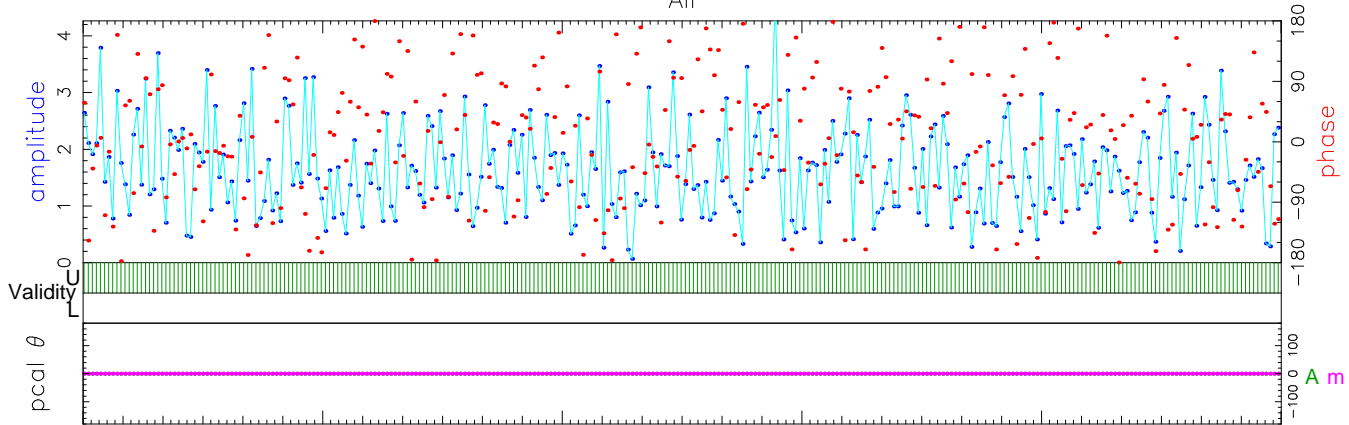
Fringe quality 8

SNR 9.1
Int time 299.981
Amp 1.422
Phase -62.9
PFD 1.3e-12
Delays (us)
SBD 0.680565
MBD 0.000004
Fringe rate (Hz)
0.524478
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051949
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
12.3
0.4
1569.7
U/L 586/0
A 0
m 0
A:m 0:0
A:m 0:0
A 1000
m 1000
A W03UY
m W03UR

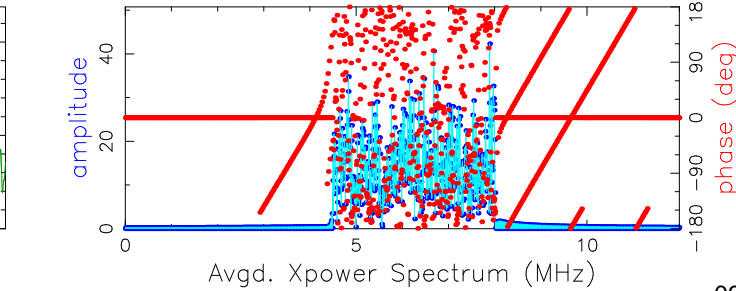
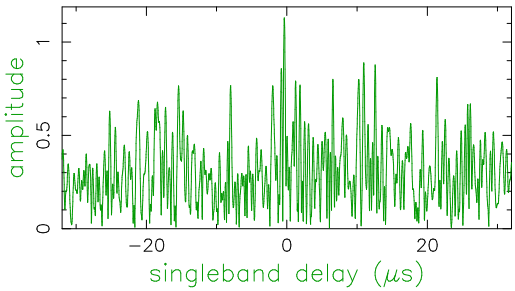
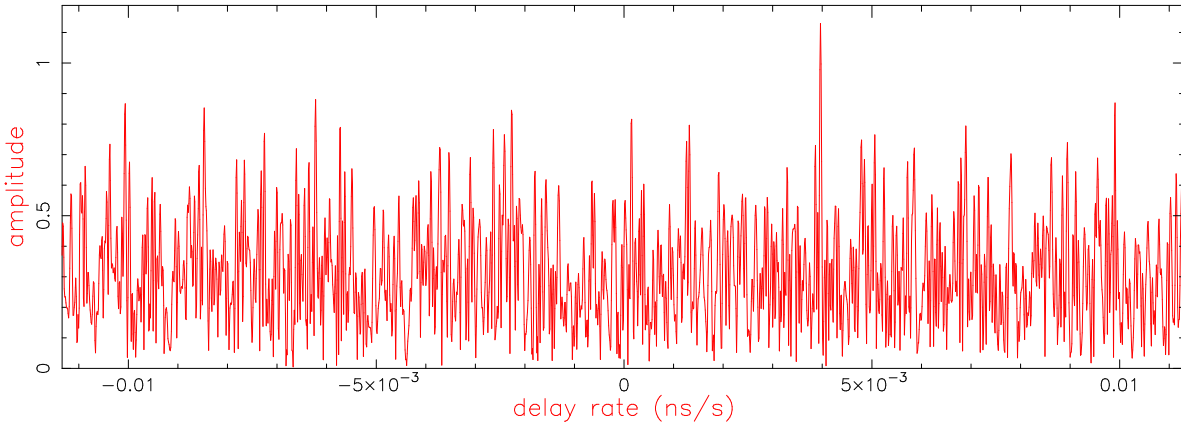
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.53533056054E+03	Apriori delay (usec)	-2.53601112899E+03	Resid mbdelay (usec)	4.34950E-06	+/-	5.0E-03
Sband delay (usec)	-2.53533056365E+03	Apriori clock (usec)	-2.1233208E+03	Resid sbdelay (usec)	6.80565E-01	+/-	5.0E-03
Phase delay (usec)	-2.53601112859E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	3.97492E-07	+/-	4.0E-07
Delay rate (us/s)	-1.53686764565E+00	Apriori rate (us/s)	-1.53687373432E+00	Resid rate (us/s)	6.08867E-06	+/-	2.3E-09
Total phase (deg)	-297.2	Apriori accel (us/s/s)	-4.42216704332E-05	Resid phase (deg)	-62.9	+/-	12.6

ph/seg (deg)	91.8	Theor.	107.4	Amplitude	1.422 +/- 0.156	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	69.9	Search (2048X8)	1.250	Search	1.250	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.670	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	Inc. frq. avg.	1.411	Inc. seg. avg.	0.670	Sample rate(MSamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	1.411	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

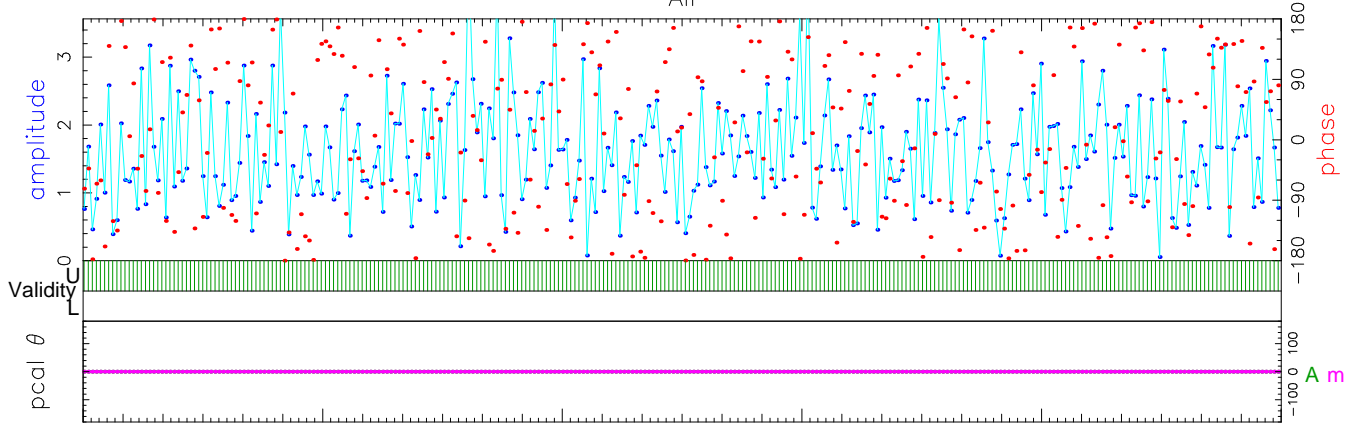
A: az 340.4 el 29.3 pa 158.0 m: az 60.9 el 29.7 pa -85.7 u,v (fr/asec) 10615.657 -7778.099 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Am..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Am.W.29.1T5GV4

Fringe quality 8



SNR 8.2
Int time 299.983
Amp 1.189
Phase 165.3
PFD 4.3e-09
Delays (us)
SBD -0.356716
MBD 0.000005
Fringe rate (Hz)
0.341488
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051950
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
152.8
0.3
1519.9
U/L 586/0
A 0
m 0
A:m 0:0
A:m 0:0
A 1000
m 1000
A W03UX
m W03UR

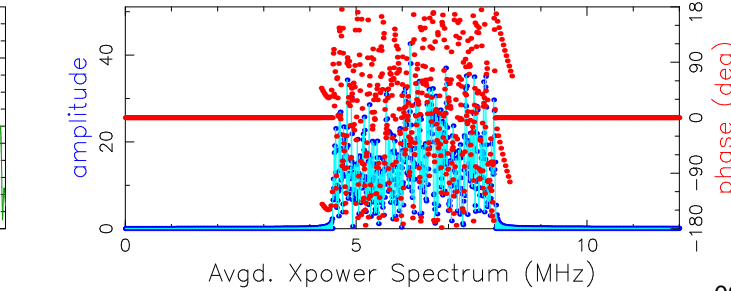
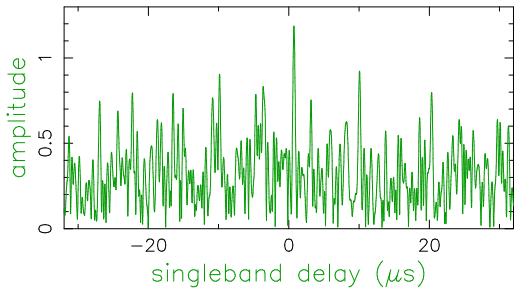
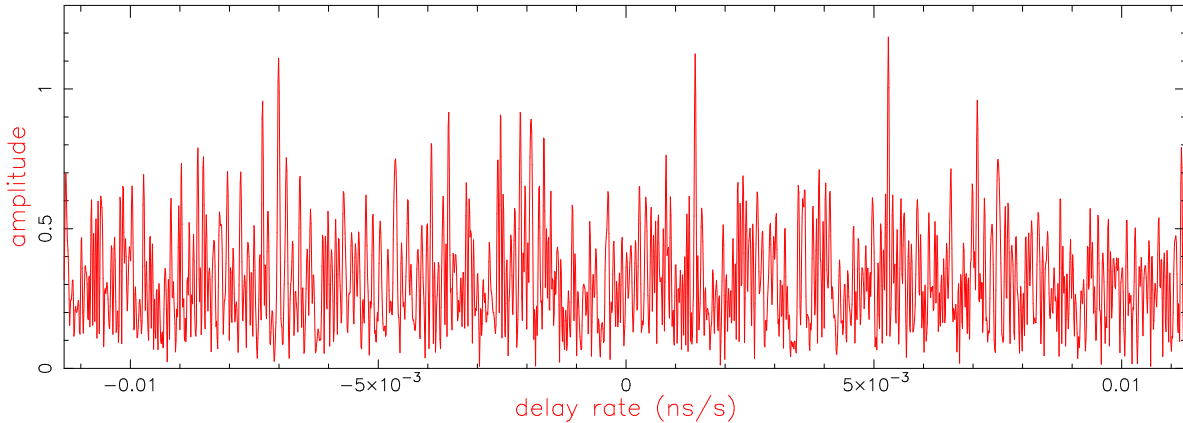
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.53636784566E+03	Apriori delay (usec)	-2.53601112899E+03	Resid mbdelay (usec)	4.53825E-06	+/- 5.6E-03
Sband delay (usec)	-2.53636784499E+03	Apriori clock (usec)	-2.1233208E+03	Resid sbdelay (usec)	-3.56716E-01	+/- 5.6E-03
Phase delay (usec)	-2.53601112406E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	4.92630E-06	+/- 4.5E-07
Delay rate (us/s)	-1.53686976999E+00	Apriori rate (us/s)	-1.53687373432E+00	Resid rate (us/s)	3.96434E-06	+/- 2.6E-09
Total phase (deg)	291.0	Apriori accel (us/s/s)	-4.42216704332E-05	Resid phase (deg)	165.3	+/- 14.0

ph/seg (deg)	RMS 95.3	Theor. 119.7	Amplitude Search (2048X8)	1.189 +/- 0.145	1.117	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	83.7	209.0	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	0.000
ph/frq (deg)	0.0	7.0	Inc. seg. avg.	0.537	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	dr window (ns/s)	-0.011	0.011	0.000
amp/frq (%)	70.7	12.2	Inc. frq. avg.	1.180	Data rate(Mb/s): 48	ion window (TEC)	0.00	0.00	0.00	0.000

A: az 340.4 el 29.3 pa 158.0 m: az 60.9 el 29.7 pa -85.7 u,v (fr/asec) 10615.657 -7778.099 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Am..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Am.W.36.1T5GV4

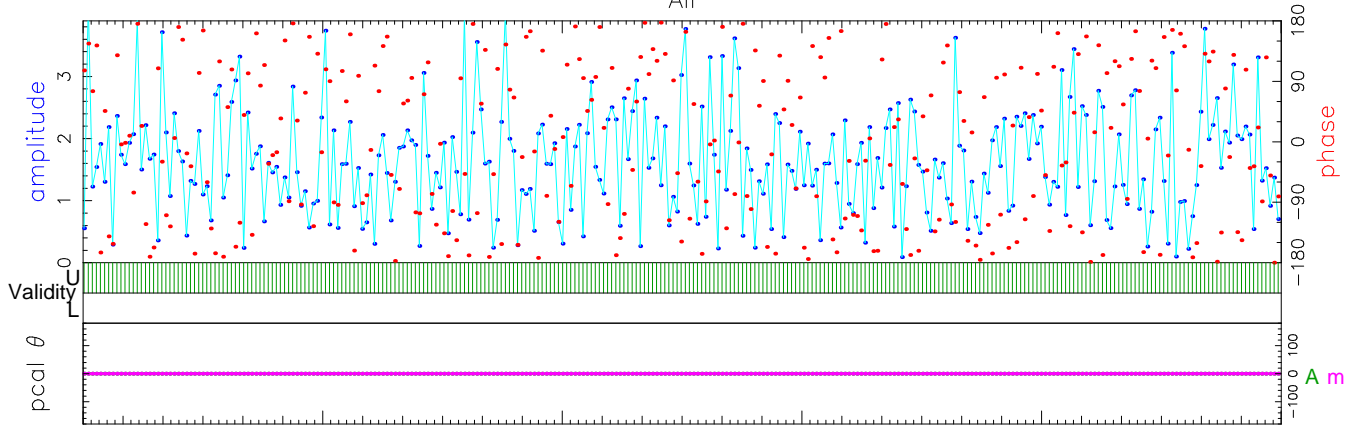
Fringe quality 8



SNR 8.6
Int time 299.981
Amp 1.299
Phase -47.1
PFD 1.4e-10
Delays (us)
SBD 0.730717
MBD 0.000004
Fringe rate (Hz)
0.455651
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051952
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
158.8
0.4
1572.1
U/L 586/0
A 0
m 0
A:m 0:0
A:m 0:0
A 1000
m 1000
A W03UY
m W03UL

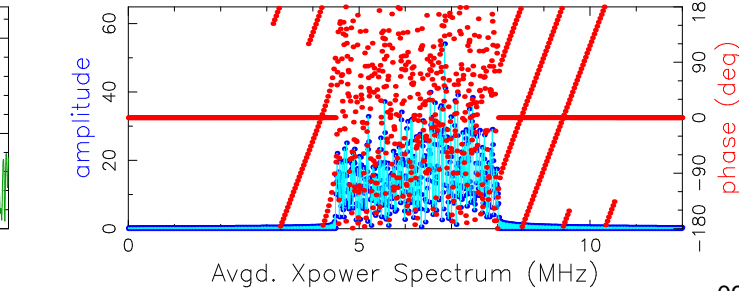
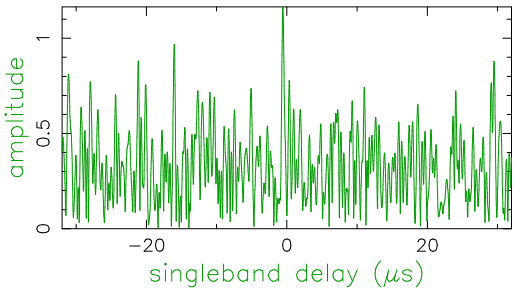
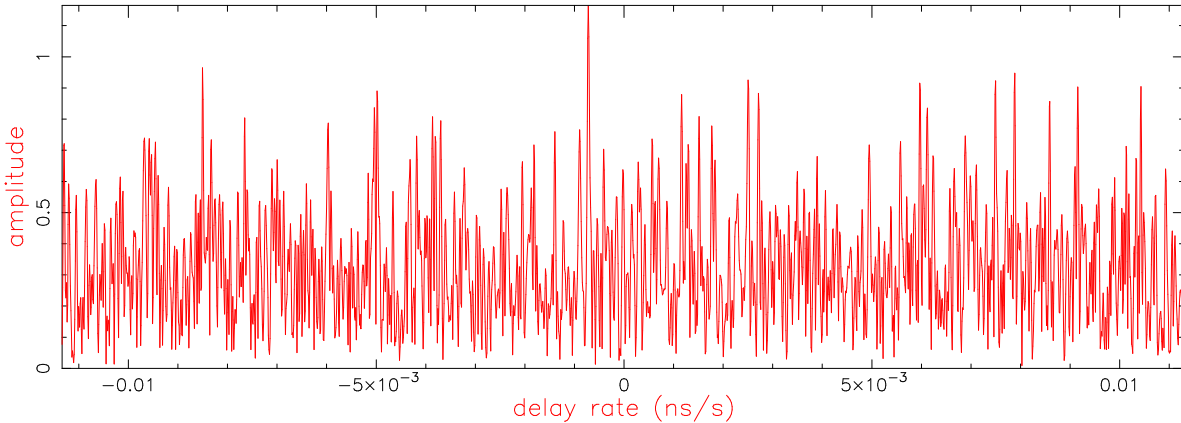
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.53528041381E+03	Apriori delay (usec)	-2.53601112899E+03	Resid mbdelay (usec)	4.38072E-06	+/-	5.3E-03
Sband delay (usec)	-2.53528041165E+03	Apriori clock (usec)	-2.1233208E+03	Resid sbdelay (usec)	7.30717E-01	+/-	5.3E-03
Phase delay (usec)	-2.53601112386E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	5.12114E-06	+/-	4.3E-07
Delay rate (us/s)	-1.53686844467E+00	Apriori rate (us/s)	-1.53687373432E+00	Resid rate (us/s)	5.28965E-06	+/-	2.5E-09
Total phase (deg)	-281.3	Apriori accel (us/s/s)	-4.42216704332E-05	Resid phase (deg)	-47.1	+/-	13.3

ph/seg (deg)	RMS 93.9	Theor. 114.0	Amplitude Search (2048X8)	1.299 +/- 0.151	1.174	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	82.5	199.0	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000	
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.601	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000	
amp/frq (%)	70.7	11.6	Inc. frq. avg.	1.291	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011	
				u,v (fr/asec) 10615.657 -7778.099		nlags: 1536 t_cohere infinite		ion window (TEC) 0.00 0.00

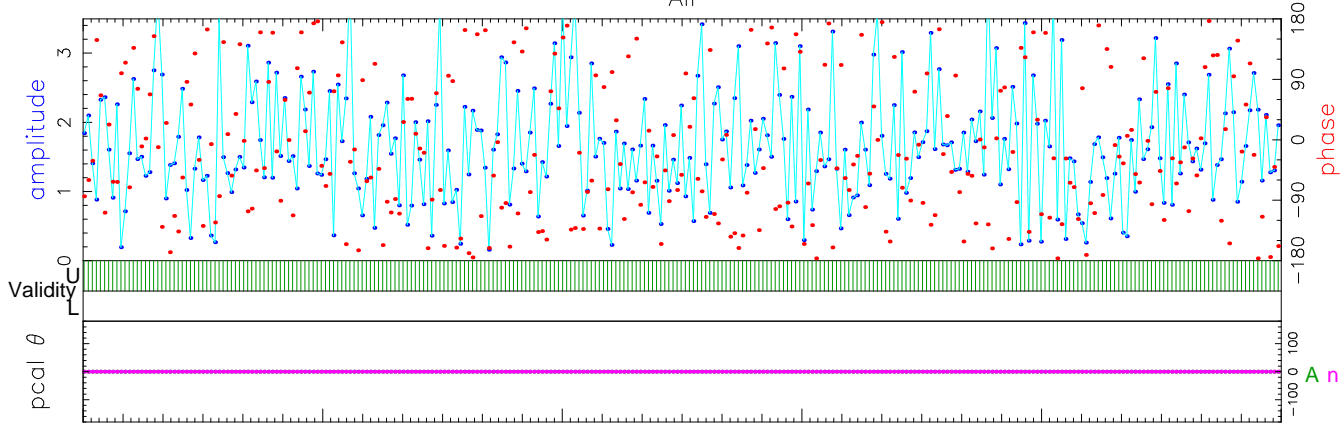
A: az 340.4 el 29.3 pa 158.0 m: az 60.9 el 29.7 pa -85.7 u,v (fr/asec) 10615.657 -7778.099 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Am..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Am.W.56.1T5GV4

Fringe quality 8



SNR 8.4
Int time 299.970
Amp 1.165
Phase 239.7
PFD 5.7e-10
Delays (us)
SBD -0.562255
MBD -0.000007
Fringe rate (Hz)
-0.061834
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051950
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-89.9
0.3
1510.0
U/L 586/0
A 0
n 0
A:n 0:0
A:n 0:0
A 1000
n 1000
A W03UY
n W03UR

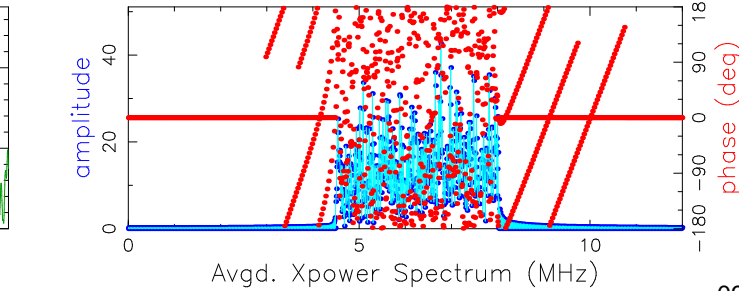
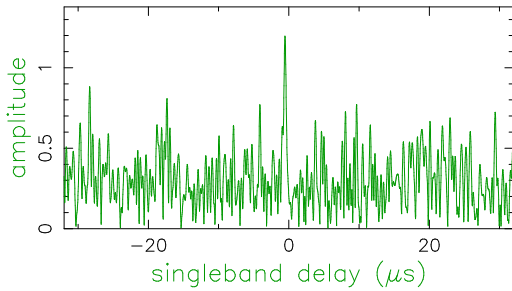
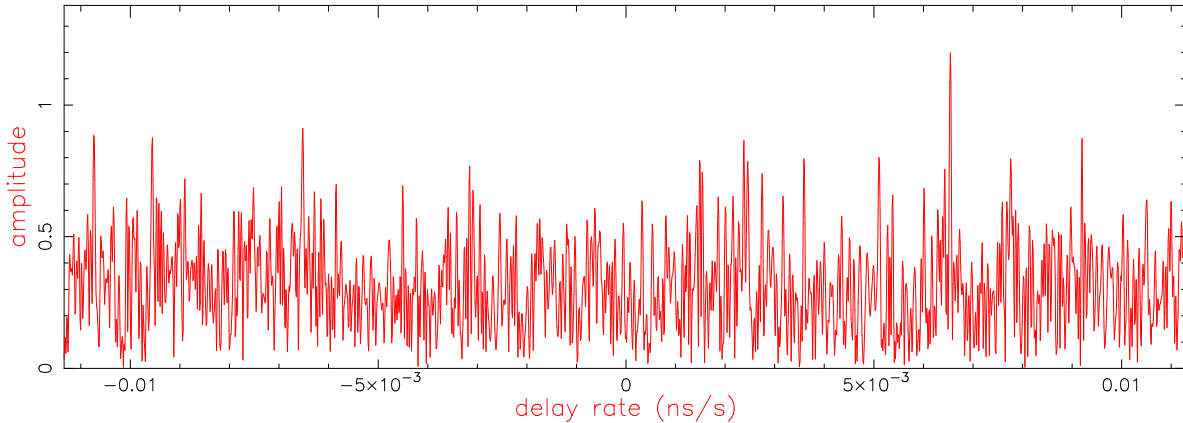
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.28310517461E+04	Apriori delay (usec)	-1.28304894910E+04	Resid mbdelay (usec)	-6.65425E-06	+/-	5.4E-03
Sband delay (usec)	-1.28310517457E+04	Apriori clock (usec)	-2.1130879E+03	Resid sbdelay (usec)	-5.62255E-01	+/-	5.4E-03
Phase delay (usec)	-1.28304894939E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-2.90062E-06	+/-	4.4E-07
Delay rate (us/s)	-4.71352027093E-01	Apriori rate (us/s)	-4.71351309257E-01	Resid rate (us/s)	-7.17836E-07	+/-	2.5E-09
Total phase (deg)	328.2	Apriori accel (us/s/s)	-1.02645375758E-05	Resid phase (deg)	239.7	+/-	13.6

ph/seg (deg)	RMS 93.3	Theor. 116.3	Amplitude Search (2048X8)	1.154	1.165 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	83.3	203.0	Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Inc. seg. avg.	0.549		Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.9	Inc. frq. avg.	1.157		Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

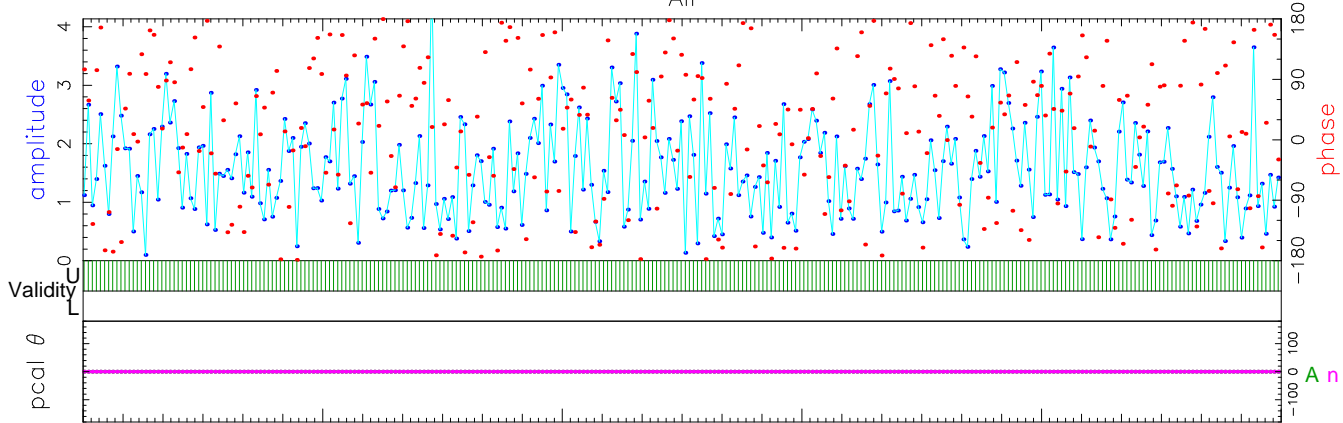
A: az 340.4 el 29.3 pa 158.0 n: az 161.1 el 82.3 pa -16.2 u,v (fr/asec) 3268.793 -8285.834 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/An..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/An.W.39.1T5GV4

Fringe quality 8



SNR 8.7
Int time 299.972
Amp 1.379
Phase 201.5
PFD 6.7e-11
Delays (us)
SBD -0.544492
MBD 0.000006
Fringe rate (Hz)
0.563320
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051952
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
68.0
0.4
1510.9
U/L 586/0
A 0
n 0
A:n 0:0
A:n 0:0
A 1000
n 1000
A W03UX
n W03UR

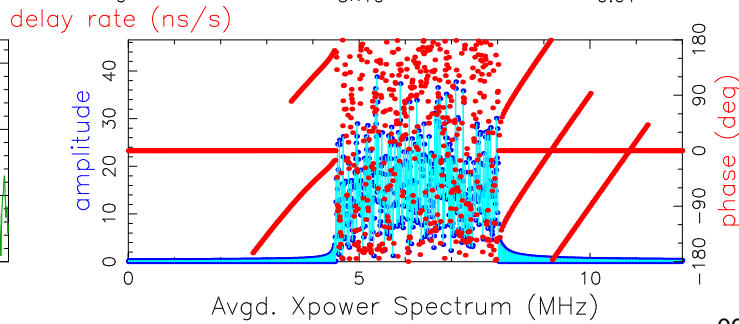
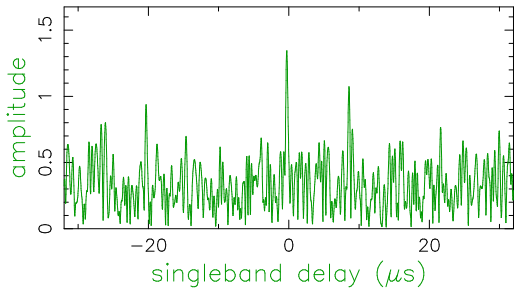
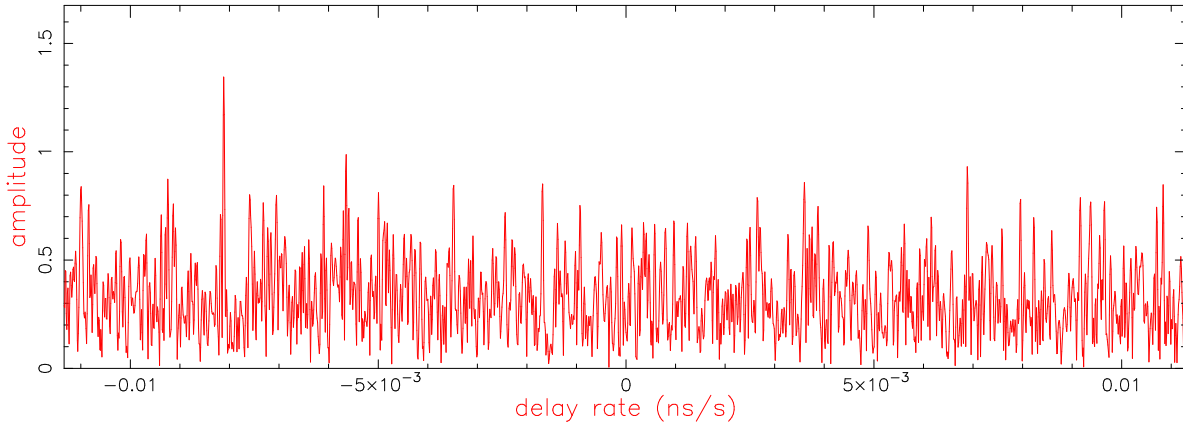
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.28310339780E+04	Apriori delay (usec)	-1.28304894910E+04	Resid mbdelay (usec)	6.01417E-06	+/-	5.3E-03
Sband delay (usec)	-1.28310339830E+04	Apriori clock (usec)	-2.1130879E+03	Resid sbdelay (usec)	-5.44492E-01	+/-	5.3E-03
Phase delay (usec)	-1.28304894888E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	2.19126E-06	+/-	4.3E-07
Delay rate (us/s)	-4.71344769674E-01	Apriori rate (us/s)	-4.71351309257E-01	Resid rate (us/s)	6.53958E-06	+/-	2.5E-09
Total phase (deg)	290.0	Apriori accel (us/s/s)	-1.02645375758E-05	Resid phase (deg)	201.5	+/-	13.2

ph/seg (deg)	RMS 94.1	Theor. 112.9	Amplitude 1.379 +/- 0.159	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	76.9	197.1	Search (2048X8) 1.178	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.6	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	11.5	Inc. seg. avg. 0.619	Sample rate(MSamp/s): 24		ion window (TEC)	0.00	0.00
			Inc. frq. avg. 1.369	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite			

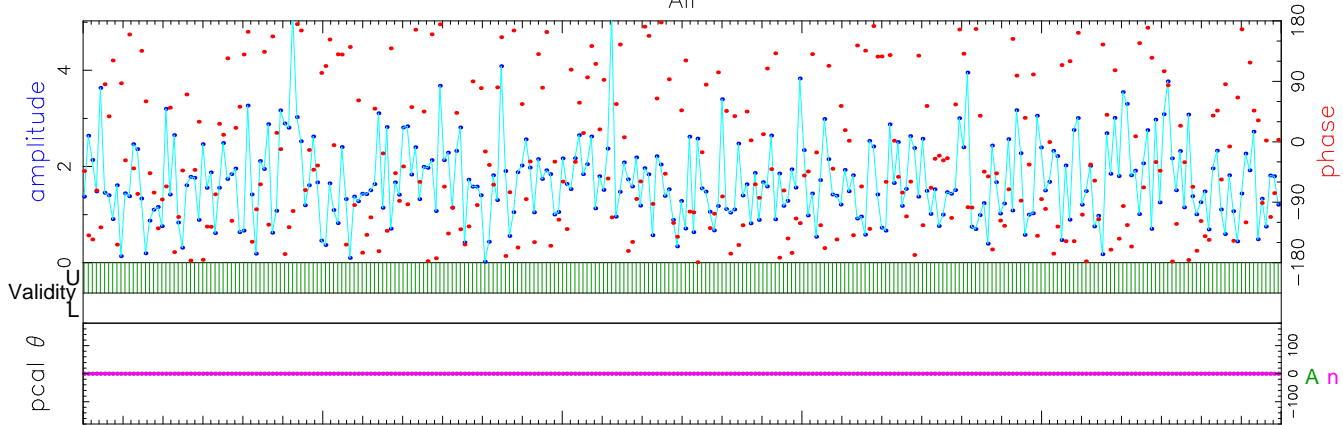
A: az 340.4 el 29.3 pa 158.0 n: az 161.1 el 82.3 pa -16.2 u,v (fr/asec) 3268.793 -8285.834 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/An..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/An.W.62.1T5GV4

Fringe quality 8



SNR 9.8
Int time 299.970
Amp 1.676
Phase 97.3
PFD 3.5e-15
Delays (us)
SBD -0.294547
MBD -0.000004
Fringe rate (Hz)
-0.698320
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051954
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-127.6
0.5
1522.9
U/L 586/0
A 0
n 0
A:n 0:0
A:n 0:0
A 1000
n 1000
A W03UY
n W03UL

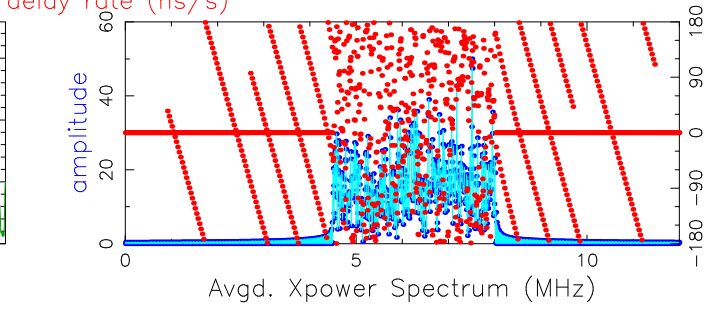
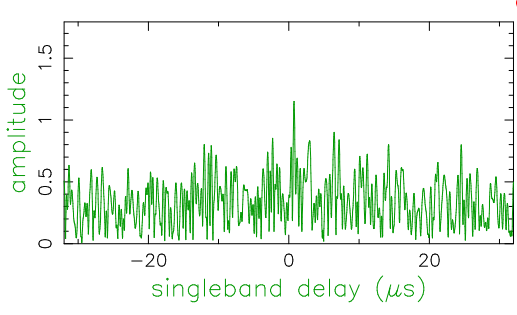
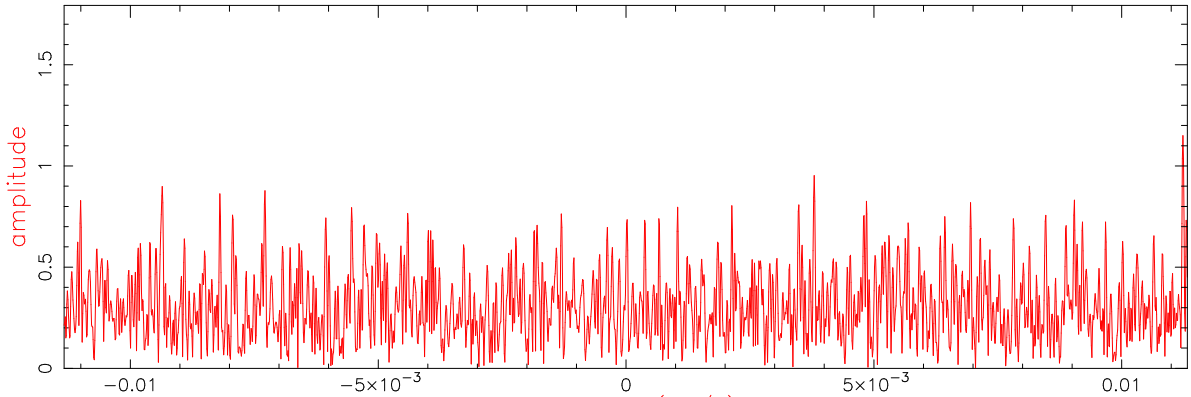
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.28307840319E+04	Apriori delay (usec)	-1.28304894910E+04	Resid mbdelay (usec)	-4.35478E-06	+/-	4.7E-03
Sband delay (usec)	-1.28307840377E+04	Apriori clock (usec)	-2.1130879E+03	Resid sbdelay (usec)	-2.94547E-01	+/-	4.7E-03
Phase delay (usec)	-1.28304894951E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-4.11364E-06	+/-	3.8E-07
Delay rate (us/s)	-4.71359416058E-01	Apriori rate (us/s)	-4.71351309257E-01	Resid rate (us/s)	-8.10680E-06	+/-	2.2E-09
Total phase (deg)	185.9	Apriori accel (us/s/s)	-1.02645375758E-05	Resid phase (deg)	97.3	+/-	11.7

ph/seg (deg)	RMS 93.7	Theor. 100.6	Amplitude Search (2048X8)	1.676 +/- 0.172	1.333	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	68.9	175.5	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	5.9	Inc. seg. avg.	0.837	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000	dr window (ns/s) -0.011 0.011
amp/frq (%)	70.7	10.3	Inc. frq. avg.	1.667	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00	nlags: 1536 t_cohere infinite

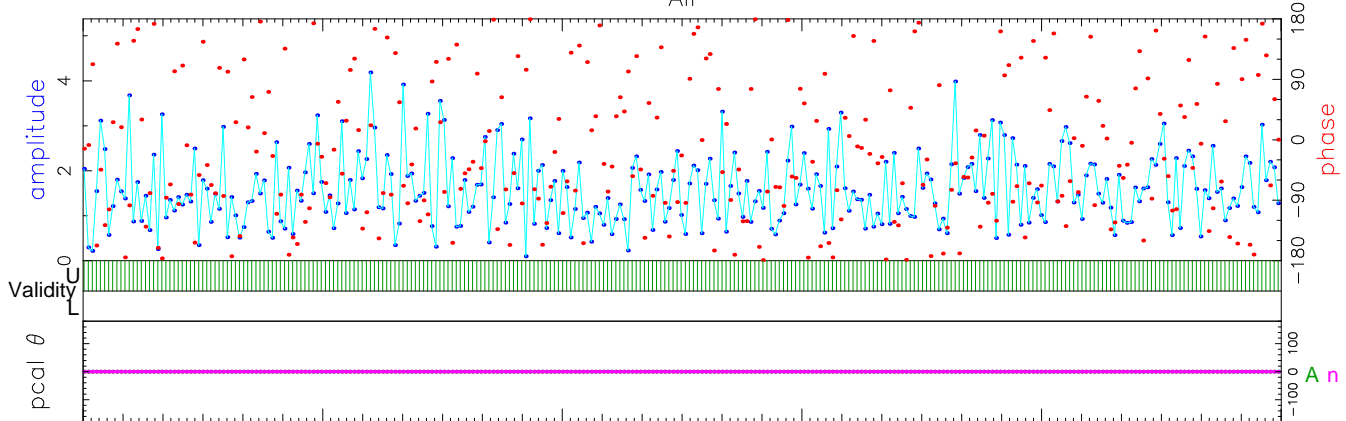
A: az 340.4 el 29.3 pa 158.0 n: az 161.1 el 82.3 pa -16.2 u,v (fr/asec) 3268.793 -8285.834 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/An..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/An.W.75.1T5GV4

Fringe quality 8



SNR 8.4
Int time 299.972
Amp 1.793
Phase -193.4
PFD 1.1e-09
Delays (us)
SBD 0.738807
MBD 0.000005
Fringe rate (Hz)
0.967392
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051947
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-94.0
0.5
1572.5
U/L 586/0
A 0
n 0
A:n 0:0
A:n 0:0
A 1000
n 1000
A W03UX
n W03UL

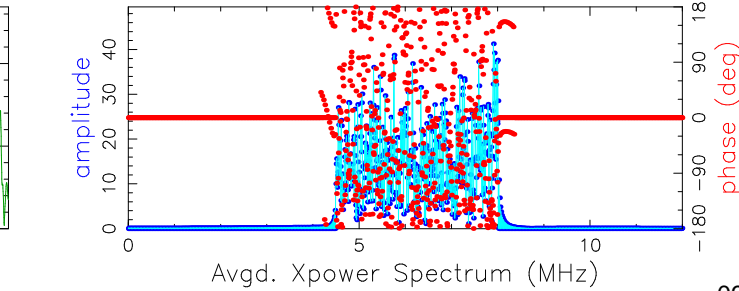
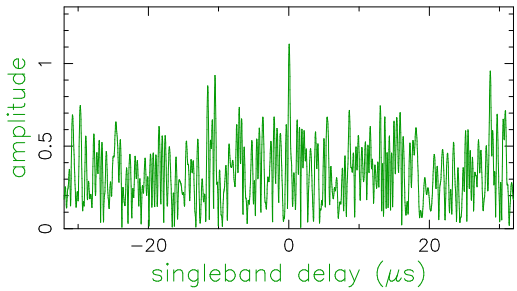
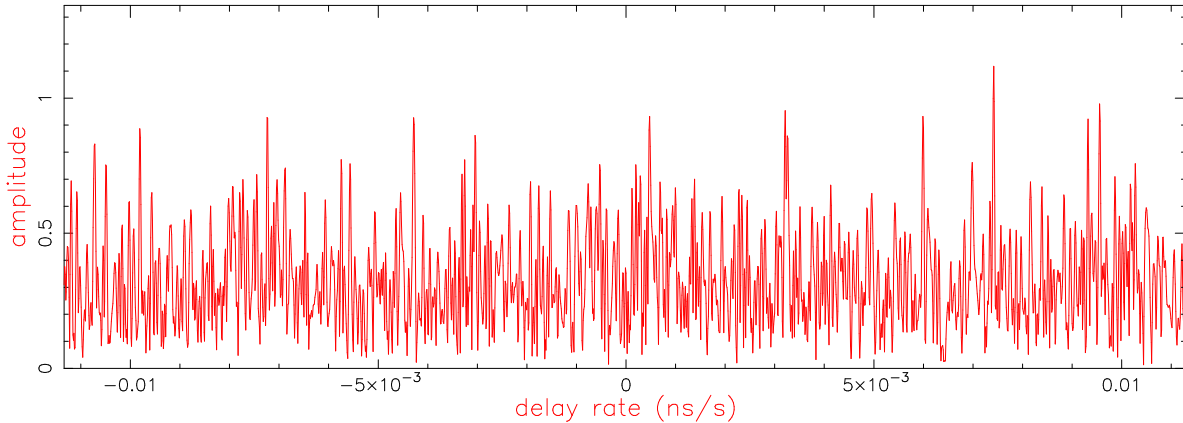
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.28297506806E+04	Apriori delay (usec)	-1.28304894910E+04	Resid mbdelay (usec)	4.64300E-06	+/-	5.5E-03
Sband delay (usec)	-1.28297506843E+04	Apriori clock (usec)	-2.1130879E+03	Resid sbdelay (usec)	7.38807E-01	+/-	5.5E-03
Phase delay (usec)	-1.28304894940E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-3.03243E-06	+/-	4.4E-07
Delay rate (us/s)	-4.71340078792E-01	Apriori rate (us/s)	-4.71351309257E-01	Resid rate (us/s)	1.12305E-05	+/-	2.6E-09
Total phase (deg)	-104.9	Apriori accel (us/s/s)	-1.02645375758E-05	Resid phase (deg)	-193.4	+/-	13.7

ph/seg (deg)	RMS 94.1	Theor. 117.4	Amplitude Search (2048X8)	1.793 +/- 0.215	1.132	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	78.0	204.9	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.799	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.8	12.0	Inc. frq. avg.	1.777	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
				ion window (TEC) 0.00 0.00			

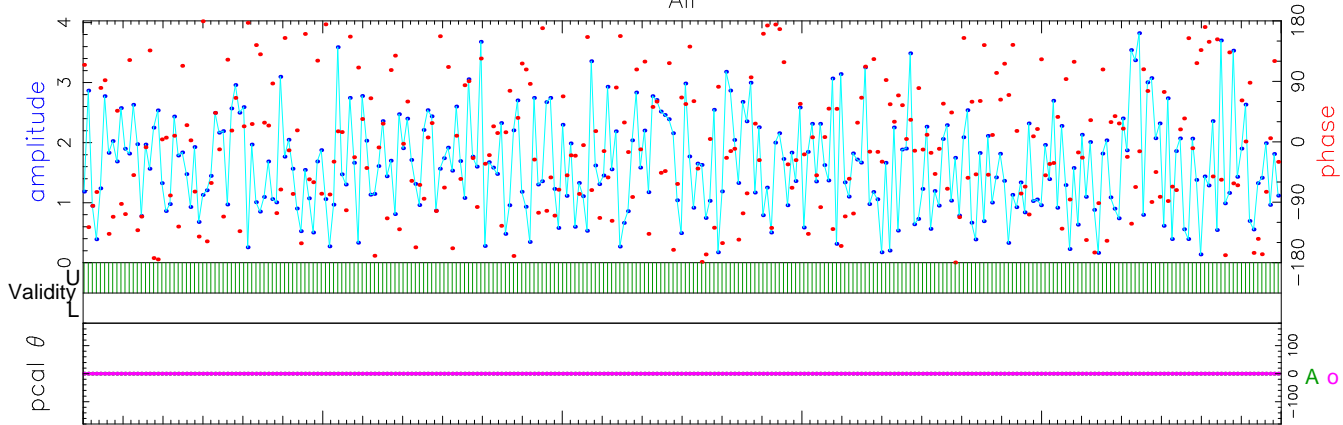
A: az 340.4 el 29.3 pa 158.0 n: az 161.1 el 82.3 pa -16.2 u,v (fr/asec) 3268.793 -8285.834 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/An..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/An.W.8.1T5GV4

Fringe quality 8



SNR 8.1
Int time 299.974
Amp 1.343
Phase -157.2
PFD 7.9e-09
Delays (us)
SBD 0.050279
MBD 0.000005
Fringe rate (Hz)
0.638064
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051947
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-22.6
0.4
1539.4
U/L 586/0
A 0
o 0
A:o 0:0
A:o 0:0
A 1000
o 1000
A W03UX
o W03UL

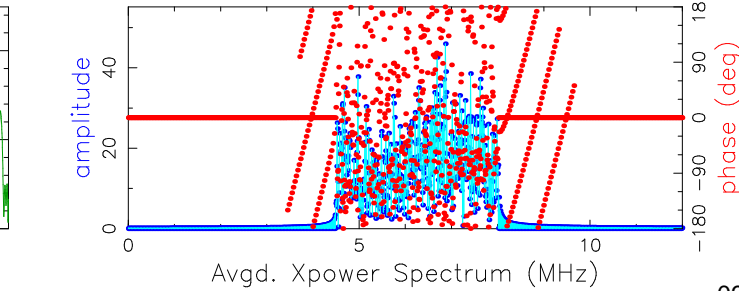
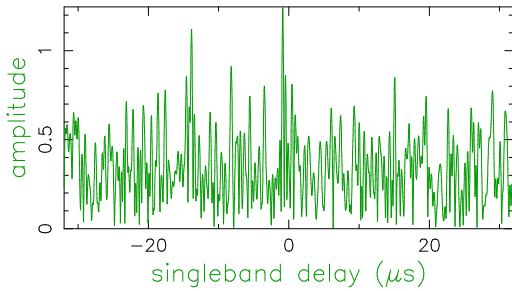
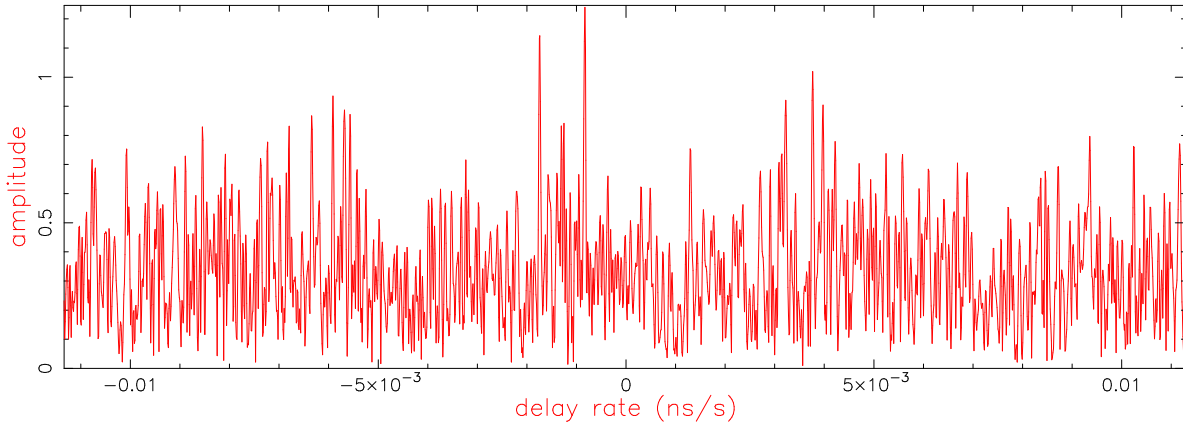
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.12528281709E+04	Apriori delay (usec)	-1.12528784503E+04	Resid mbdelay (usec)	5.09771E-06	+/-	5.7E-03
Sband delay (usec)	-1.12528281716E+04	Apriori clock (usec)	-2.1113589E+03	Resid sbdelay (usec)	5.02787E-02	+/-	5.7E-03
Phase delay (usec)	-1.12528784510E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-7.28027E-07	+/-	4.6E-07
Delay rate (us/s)	-9.27906615160E-01	Apriori rate (us/s)	-9.27914022449E-01	Resid rate (us/s)	7.40729E-06	+/-	2.6E-09
Total phase (deg)	-52.9	Apriori accel (us/s/s)	-1.47520862520E-05	Resid phase (deg)	-157.2	+/-	14.1

ph/seg (deg)	RMS 93.6	Theor. 120.8	Amplitude Search (2048X8)	1.343 +/- 0.165	1.108	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	86.2	210.9	Interp.	0.000	1.108	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.1	Inc. seg. avg.	0.607	1.108	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	12.3	Inc. frq. avg.	1.331	1.108	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

A: az 340.4 el 29.3 pa 158.0 o: az 87.7 el 65.8 pa -74.9 u,v (fr/asec) 6431.495 -8104.160 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Ao..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Ao.W.12.1T5GV4

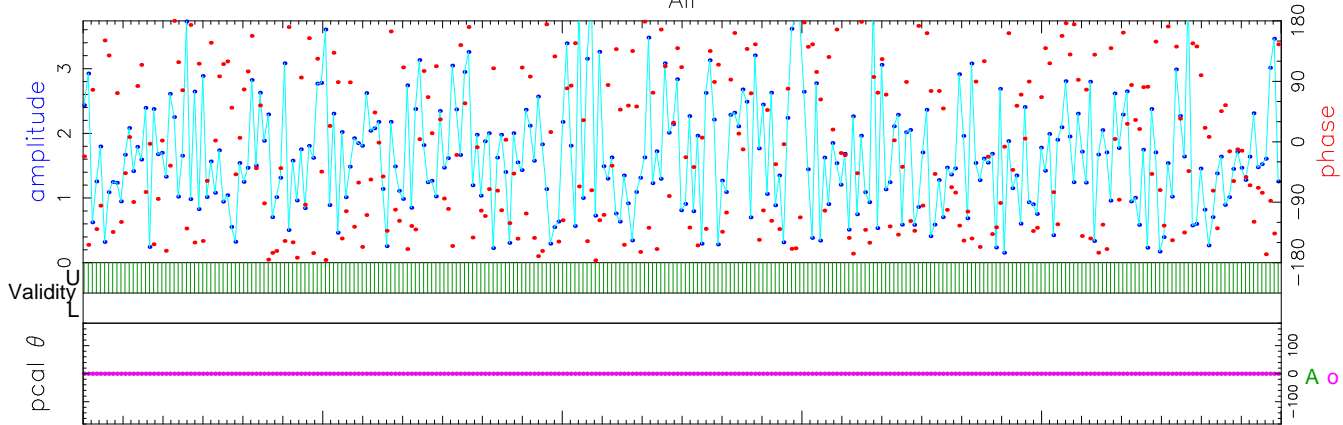
Fringe quality 8



SNR 9.0
Int time 299.972
Amp 1.246
Phase 272.2
PFD 3.5e-12
Delays (us)
SBD -0.864167
MBD -0.000004
Fringe rate (Hz)
-0.071486
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051950
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-153.3
0.4
1495.5
U/L 586/0
A 0
o 0
A:o 0:0
A:o 0:0
A 1000
o 1000
A W03UY
o W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

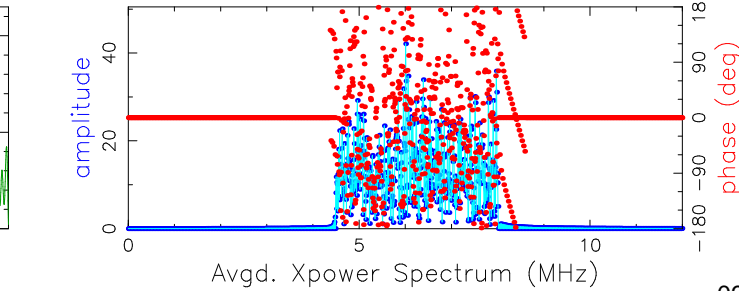
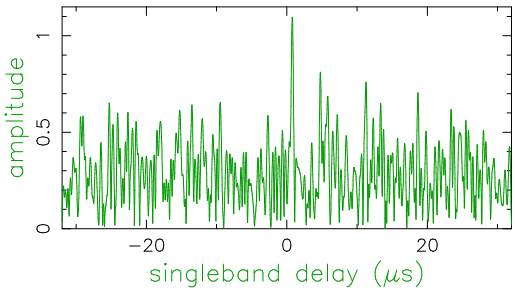
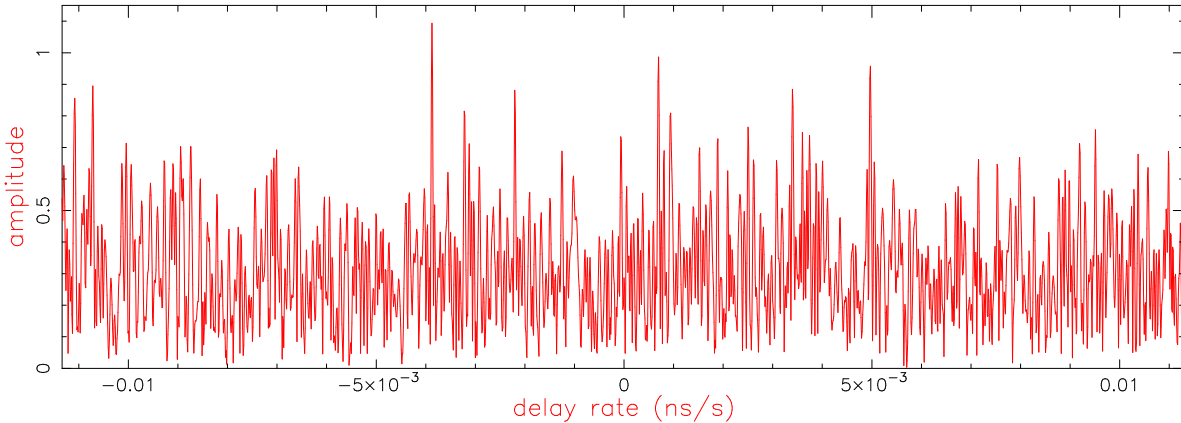
Group delay (usec)(sbd)	-1.12537426156E+04	Apriori delay (usec)	-1.12528784503E+04	Resid mbdelay (usec)	-4.41829E-06	+/-	5.1E-03
Sband delay (usec)	-1.12537426170E+04	Apriori clock (usec)	-2.1113589E+03	Resid sbdelay (usec)	-8.64167E-01	+/-	5.1E-03
Phase delay (usec)	-1.12528784553E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-4.94269E-06	+/-	4.1E-07
Delay rate (us/s)	-9.27914852328E-01	Apriori rate (us/s)	-9.27914022449E-01	Resid rate (us/s)	-8.29878E-07	+/-	2.4E-09
Total phase (deg)	16.6	Apriori accel (us/s/s)	-1.47520862520E-05	Resid phase (deg)	272.2	+/-	12.7

ph/seg (deg)	93.8	RMS	108.8	Theor.	1.246 +/- 0.138	Amplitude	1.246 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.3	Search (2048X8)	1.232	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.592	Inc. frq. avg.	1.235	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.8	Inc. frq. avg.	1.235	Sample rate(MISamp/s): 24		Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s)	-0.011 0.011
A: az 340.4 el 29.3 pa 158.0		o: az 87.7 el 65.8 pa -74.9		u,v (fr/asec)	6431.495 -8104.160			ion window (TEC)	0.00 0.00

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Ao..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Ao.W.45.1T5GV4

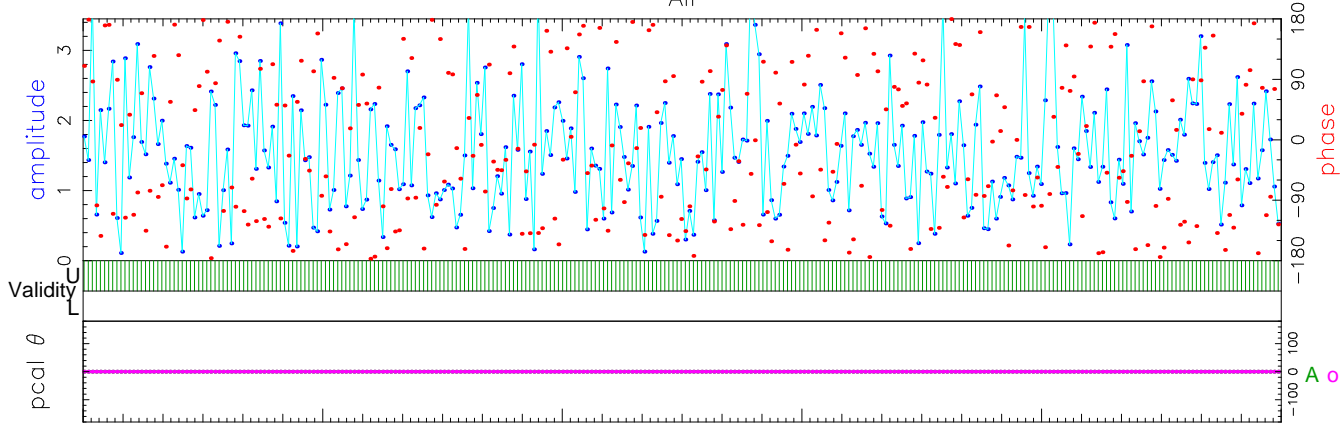
simultaneous interpolator

Fringe quality 8



SNR 7.9
Int time 299.974
Amp 1.150
Phase -77.1
PFD 3.1e-08
Delays (us)
SBD 0.779624
MBD -0.000006
Fringe rate (Hz)
-0.333013
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051952
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-139.1
0.3
1574.4
U/L 586/0
A 0
o 0
A:o 0:0
A:o 0:0
A 1000
o 1000
A W03UX
o W03UR

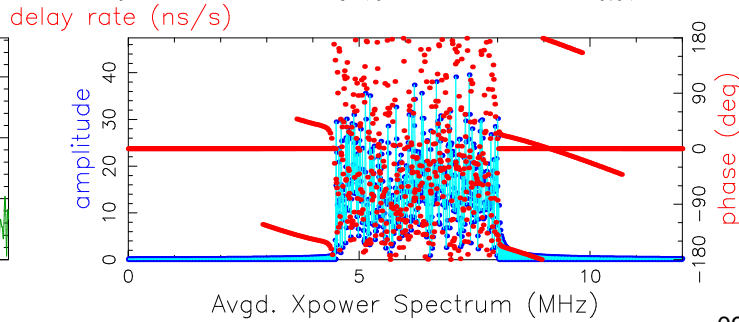
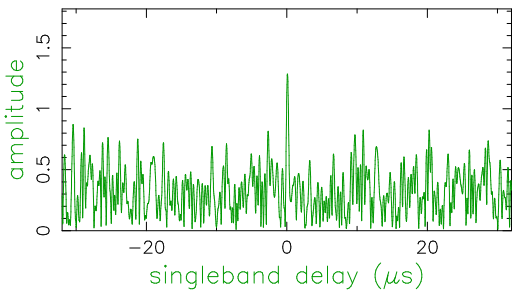
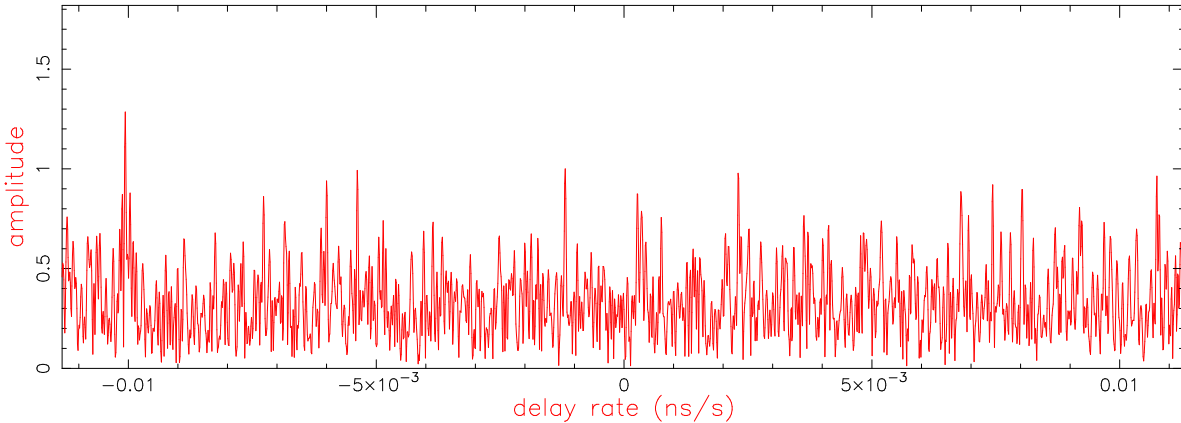
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.12520988284E+04	Apriori delay (usec)	-1.12528784503E+04	Resid mbdelay (usec)	-6.23916E-06	+/- 5.8E-03
Sband delay (usec)	-1.12520988263E+04	Apriori clock (usec)	-2.1113589E+03	Resid sbdelay (usec)	7.79624E-01	+/- 5.8E-03
Phase delay (usec)	-1.12528784548E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-4.48604E-06	+/- 4.7E-07
Delay rate (us/s)	-9.27917888402E-01	Apriori rate (us/s)	-9.27914022449E-01	Resid rate (us/s)	-3.86595E-06	+/- 2.7E-09
Total phase (deg)	-332.8	Apriori accel (us/s/s)	-1.47520862520E-05	Resid phase (deg)	-77.1	+/- 14.4

ph/seg (deg)	RMS 94.9	Theor. 123.4	Amplitude 1.150 +/- 0.145	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	85.7	215.4	Search (2048X8) 1.079	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.2	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	12.6	Inc. seg. avg. 0.495	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
			Inc. frq. avg. 1.139	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

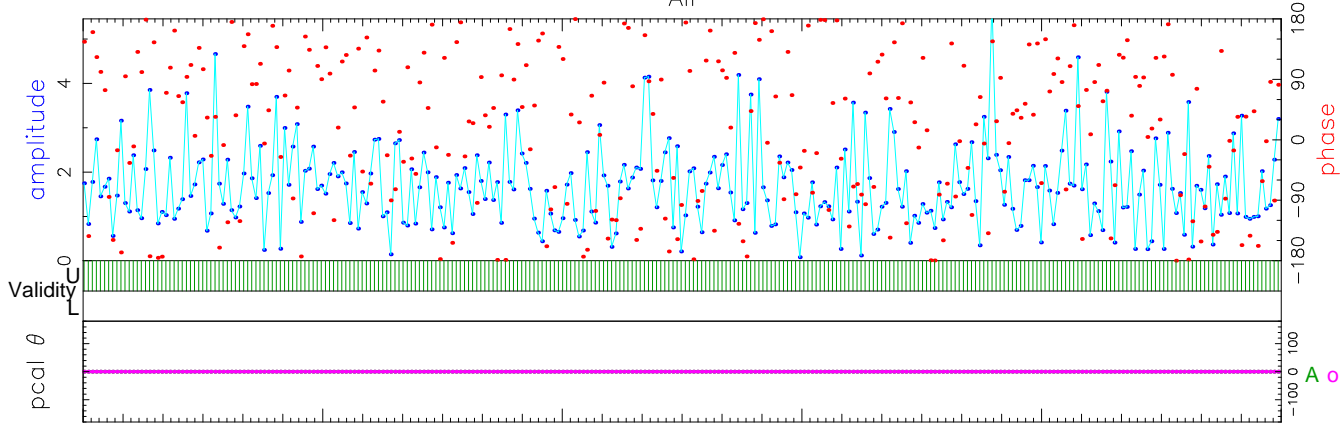
A: az 340.4 el 29.3 pa 158.0 o: az 87.7 el 65.8 pa -74.9 u,v (fr/asec) 6431.495 -8104.160 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Ao..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Ao.W.58.1T5GV4

Fringe quality 8



SNR 9.3
Int time 299.972
Amp 1.820
Phase -118.3
PFD 2.2e-13
Delays (us)
SBD 0.088132
MBD -0.000005
Fringe rate (Hz)
-0.866159
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051953
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



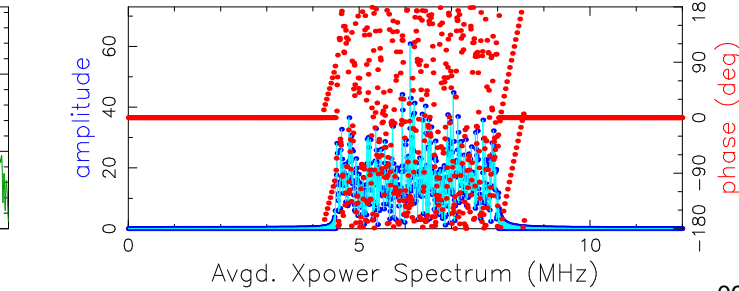
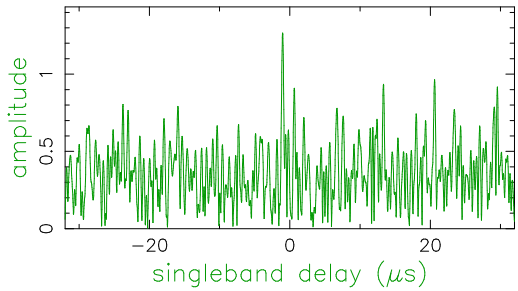
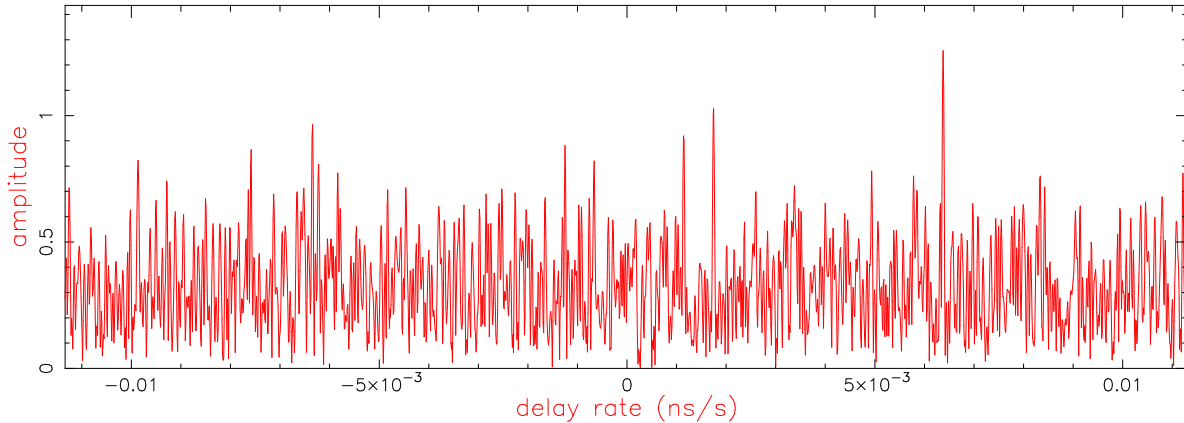
86227.00
122.2
0.5
1541.2
U/L 586/0
A 0
o 0
A:o 0:0
A:o 0:0
A 1000
o 1000
A W03UY
o W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.12527903156E+04	Apriori delay (usec)	-1.12528784503E+04	Resid mbdelay (usec)	-4.77178E-06	+/-	4.9E-03
Sband delay (usec)	-1.12527903183E+04	Apriori clock (usec)	-2.1113589E+03	Resid sbdelay (usec)	8.81320E-02	+/-	4.9E-03
Phase delay (usec)	-1.12528784464E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	3.94139E-06	+/-	4.0E-07
Delay rate (us/s)	-9.27924077702E-01	Apriori rate (us/s)	-9.27914022449E-01	Resid rate (us/s)	-1.00553E-05	+/-	2.3E-09
Total phase (deg)	-14.0	Apriori accel (us/s/s)	-1.47520862520E-05	Resid phase (deg)	-118.3	+/-	12.3

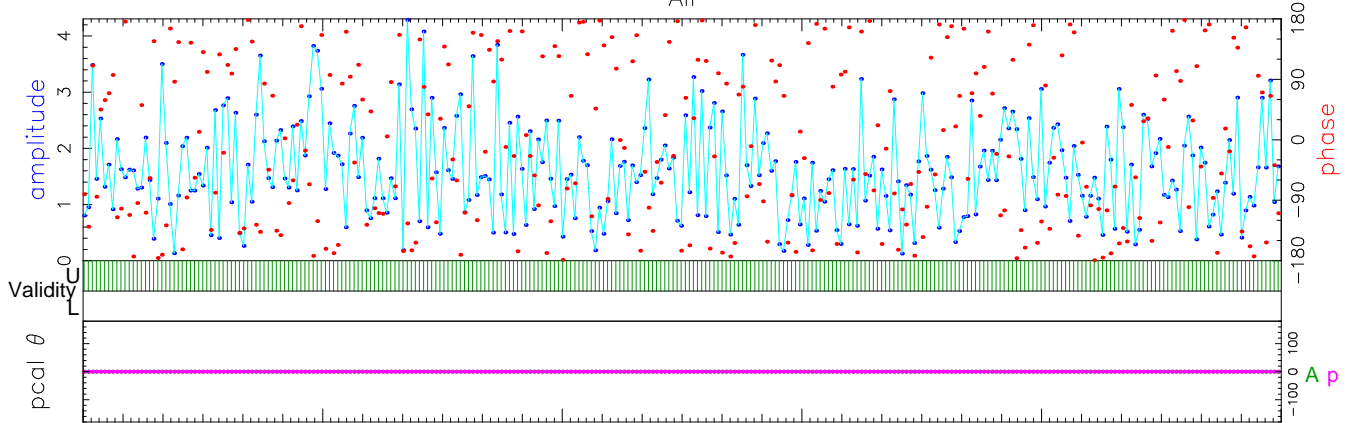
ph/seg (deg)	RMS 92.8	Theor. 105.2	Amplitude Search (2048X8)	1.820 +/- 0.195	1.269	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	78.4	183.6	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	0.0	6.1	Inc. seg. avg.	0.891	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000	
amp/frq (%)	70.7	10.7	Inc. frq. avg.	1.808	Sample rate(MISamp/s): 24		dr window (ns/s)	-0.011 0.011	
				A: az 340.4 el 29.3 pa 158.0	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00	
				o: az 87.7 el 65.8 pa -74.9	u,v (fr/asec) 6431.495 -8104.160				simultaneous interpolator

Fringe quality 8



SNR 9.1
Int time 299.971
Amp 1.436
Phase 193.8
PFD 1.5e-12
Delays (us)
SBD -1.000000
MBD 0.000005
Fringe rate (Hz)
0.548827
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051948
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-166.2
0.4
1487.9
U/L 586/0
A 0
p 0
A:p 0:0
A:p 0:0
A 1000
p 1000
A W03UY
p W03UR

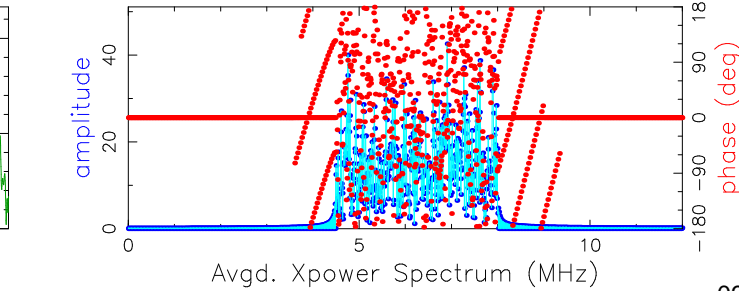
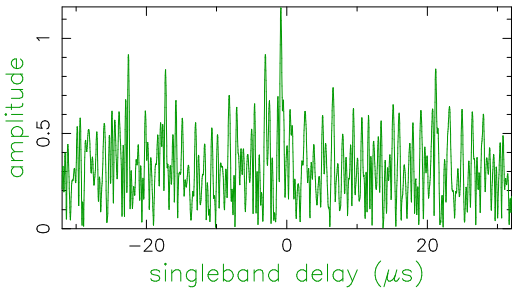
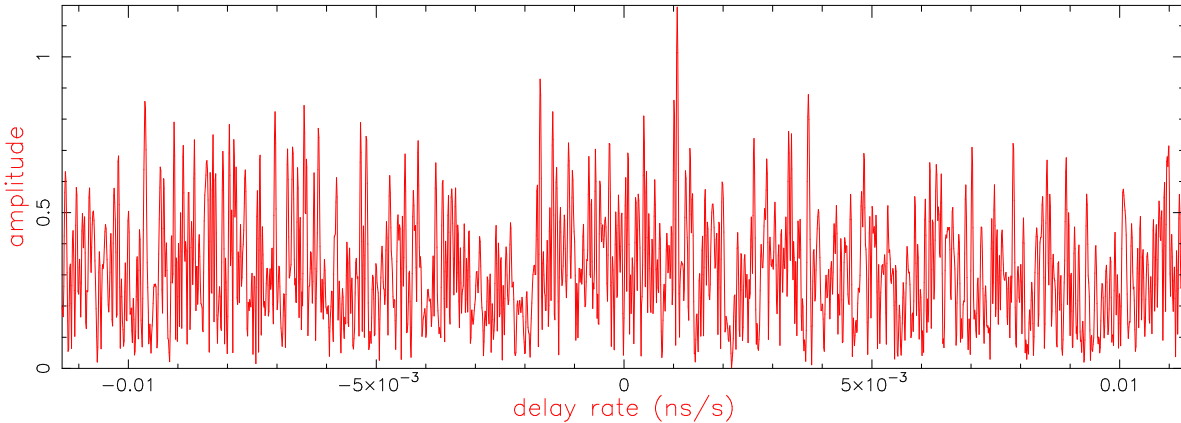
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.22562702804E+04	Apriori delay (usec)	-1.22552702850E+04	Resid mbdelay (usec)	4.67390E-06	+/-	5.0E-03
Sband delay (usec)	-1.22562702850E+04	Apriori clock (usec)	-2.1131350E+03	Resid sbdelay (usec)	-1.00000E+00	+/-	5.0E-03
Phase delay (usec)	-1.22552702904E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-5.36061E-06	+/-	4.1E-07
Delay rate (us/s)	-7.74853440769E-01	Apriori rate (us/s)	-7.74859812103E-01	Resid rate (us/s)	6.37133E-06	+/-	2.3E-09
Total phase (deg)	67.1	Apriori accel (us/s/s)	-6.79265279587E-06	Resid phase (deg)	193.8	+/-	12.6

ph/seg (deg)	RMS 89.5	Theor. 107.7	Amplitude Search (2048X8)	1.436 +/- 0.158	1.212	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	73.5	187.9	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	6.3	Inc. seg. avg.	0.662	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	11.0	Inc. frq. avg.	1.427	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s)	-0.011 0.011
					nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00	

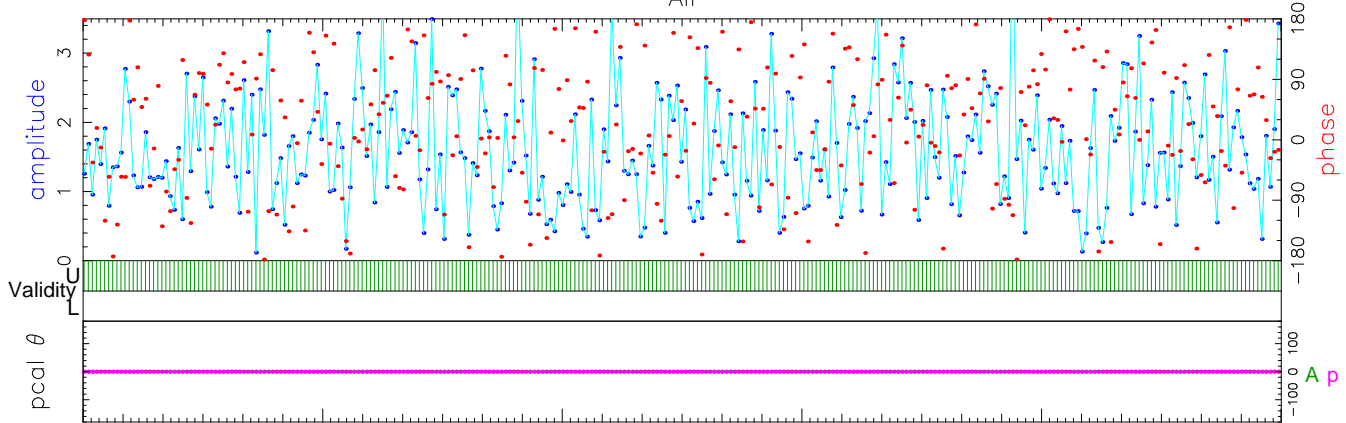
A: az 340.4 el 29.3 pa 158.0 p: az 84.0 el 73.9 pa -85.4 u,v (fr/asec) 5379.515 -7365.645 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Ap..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Ap.W.21.1T5GV4

Fringe quality 8



SNR 8.4
Int time 299.973
Amp 1.165
Phase 286.3
PFD 6.5e-10
Delays (us)
SBD -0.846925
MBD 0.000007
Fringe rate (Hz)
0.092387
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051949
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
40.6
0.3
1496.4
U/L 586/0
A 0
p 0
A:p 0:0
A:p 0:0
A 1000
p 1000
A W03UX
p W03UR

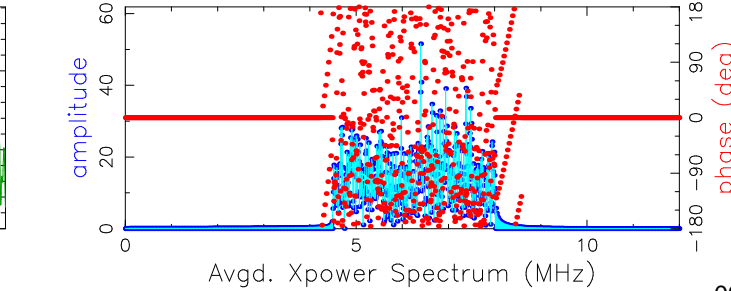
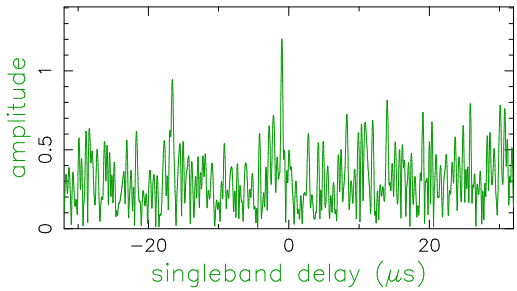
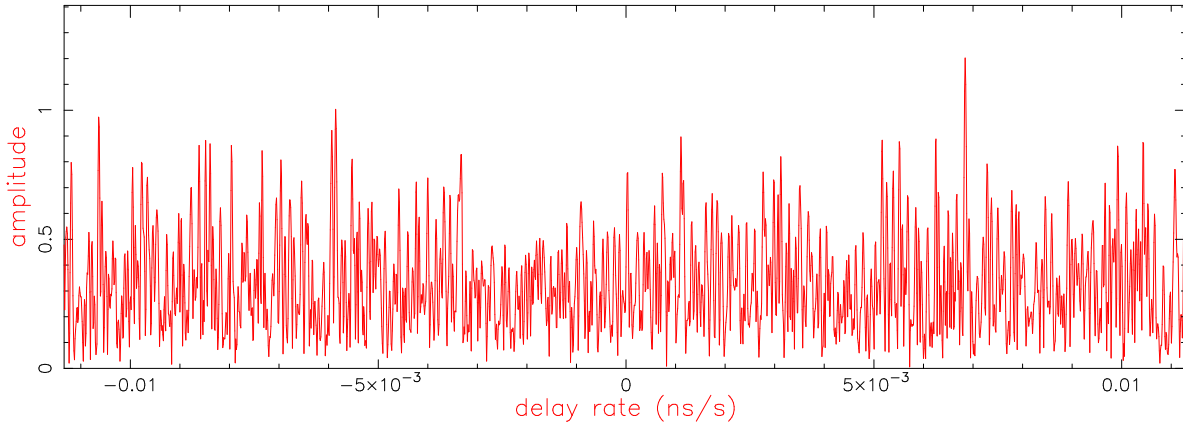
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.22561172055E+04	Apriori delay (usec)	-1.22552702850E+04	Resid mbdelay (usec)	6.80808E-06	+/-	5.5E-03
Sband delay (usec)	-1.22561172104E+04	Apriori clock (usec)	-2.1131350E+03	Resid sbdelay (usec)	-8.46925E-01	+/-	5.5E-03
Phase delay (usec)	-1.22552702837E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	1.30773E-06	+/-	4.4E-07
Delay rate (us/s)	-7.74858739586E-01	Apriori rate (us/s)	-7.74859812103E-01	Resid rate (us/s)	1.07252E-06	+/-	2.5E-09
Total phase (deg)	159.6	Apriori accel (us/s/s)	-6.79265279587E-06	Resid phase (deg)	286.3	+/-	13.6

ph/seg (deg)	RMS 90.5	Theor. 116.5	Amplitude Search (2048X8)	1.165 +/- 0.138	1.146	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	80.4	203.3	Interp.	0.000	0.000E+00	0.000E+00	0.000E+00 (us/s)
ph/frq (deg)	0.0	6.8	Inc. seg. avg.	0.527	Bits/sample: 2x2	SampCntNorm: enabled	sb window (us) -1.000 1.000
amp/frq (%)	70.7	11.9	Inc. frq. avg.	1.156	Sample rate(MSamp/s): 24		mb window (us) -0.000 0.000
				A: az 340.4 el 29.3 pa 158.0	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
				p: az 84.0 el 73.9 pa -85.4			ion window (TEC) 0.00 0.00
				u,v (fr/asec) 5379.515 -7365.645			simultaneous interpolator

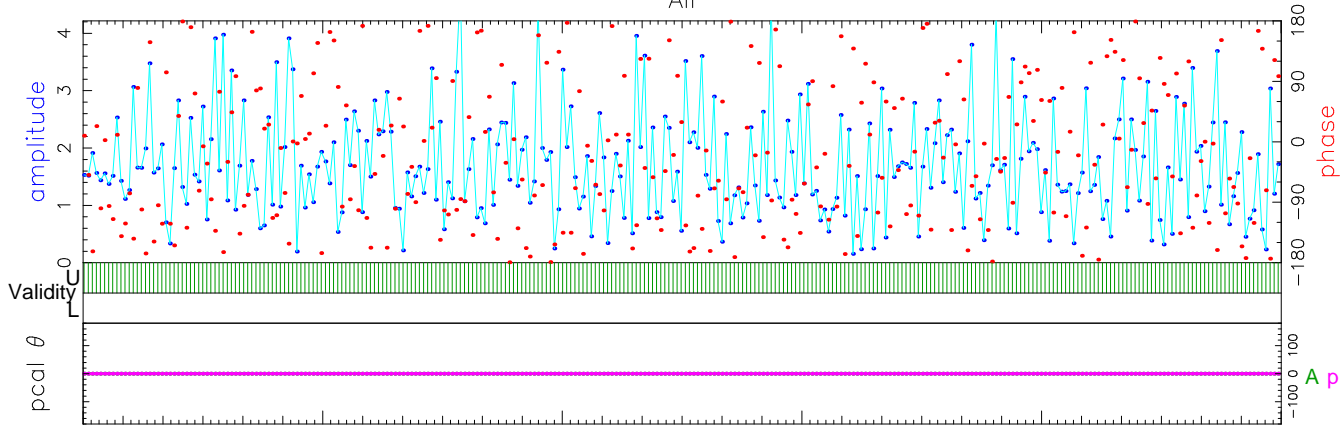
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Ap..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Ap.W.32.1T5GV4

Fringe quality 8



SNR 8.7
Int time 299.971
Amp 1.406
Phase 271.6
PFD 4.3e-11
Delays (us)
SBD -0.988953
MBD 0.000007
Fringe rate (Hz)
0.589091
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051951
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-102.6
0.4
1489.5
U/L 586/0
A 0
p 0
A:p 0:0
A:p 0:0
A 1000
p 1000
A W03UY
p W03UL

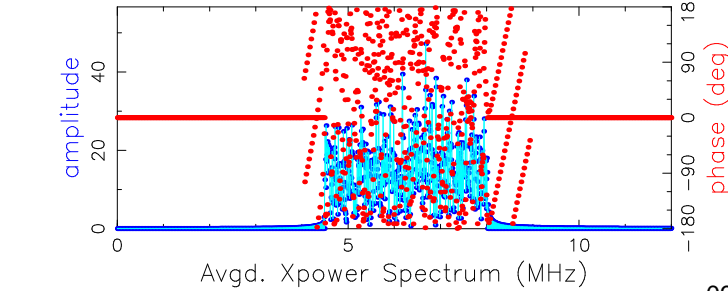
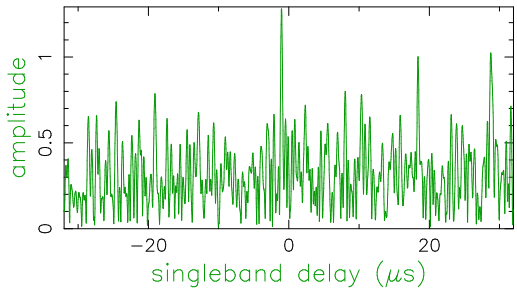
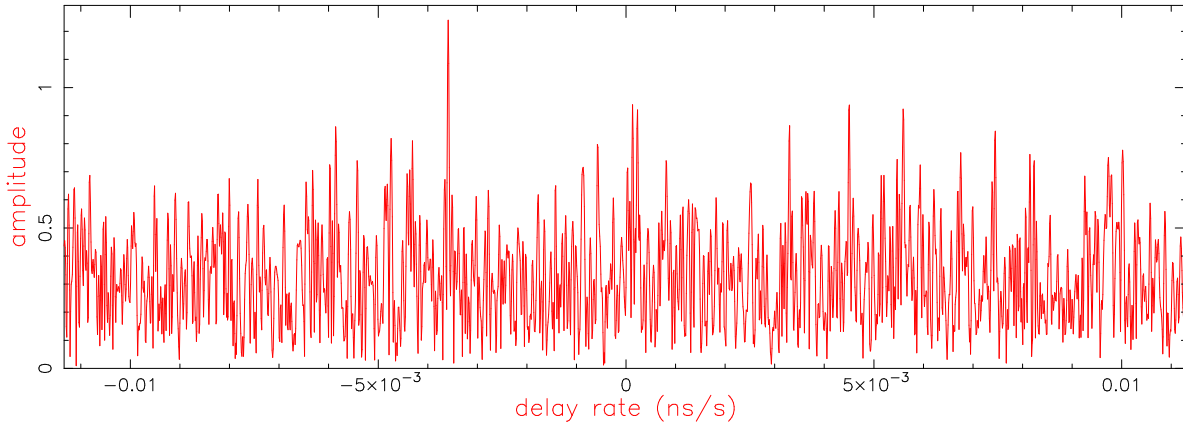
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.22562592372E+04	Apriori delay (usec)	-1.22552702850E+04	Resid mbdelay (usec)	7.15748E-06	+/-	5.3E-03
Sband delay (usec)	-1.22562592384E+04	Apriori clock (usec)	-2.1131350E+03	Resid sbdelay (usec)	-9.88953E-01	+/-	5.3E-03
Phase delay (usec)	-1.22552702883E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-3.30931E-06	+/-	4.2E-07
Delay rate (us/s)	-7.74852973337E-01	Apriori rate (us/s)	-7.74859812103E-01	Resid rate (us/s)	6.83877E-06	+/-	2.4E-09
Total phase (deg)	144.9	Apriori accel (us/s/s)	-6.79265279587E-06	Resid phase (deg)	271.6	+/-	13.1

ph/seg (deg)	RMS 96.0	Theor. 112.3	Amplitude Search (2048X8)	1.406 +/- 0.161	1.186	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	87.6	195.9	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.685	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.8	11.4	Inc. frq. avg.	1.394	Sample rate(MISamp/s): 24	ion window (TEC)	0.00 0.00	

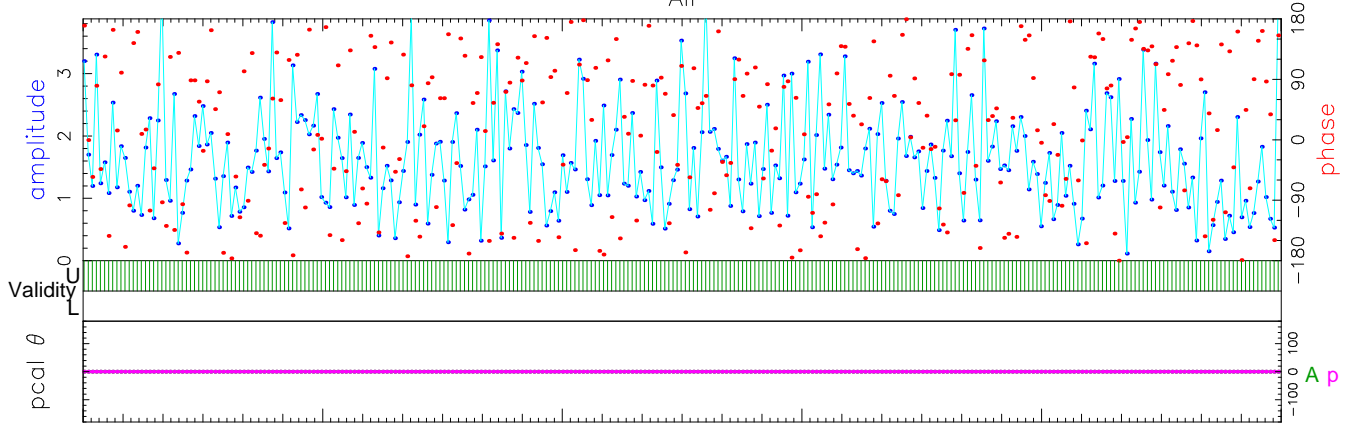
A: az 340.4 el 29.3 pa 158.0 p: az 84.0 el 73.9 pa -85.4 u,v (fr/asec) 5379.515 -7365.645 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Ap..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Ap.W.54.1T5GV4

Fringe quality 8



SNR 9.0
Int time 299.973
Amp 1.292
Phase 128.7
PFD 4.4e-12
Delays (us)
SBD -1.000000
MBD -0.000006
Fringe rate (Hz)
-0.308604
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051947
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



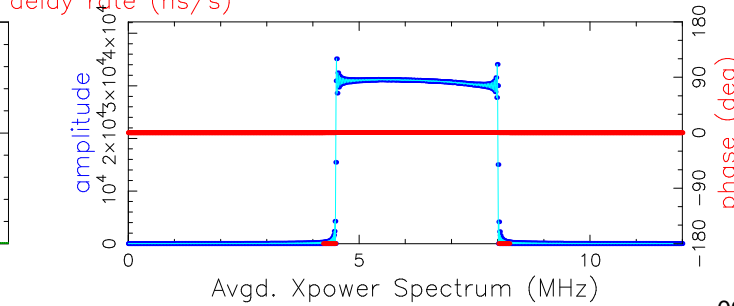
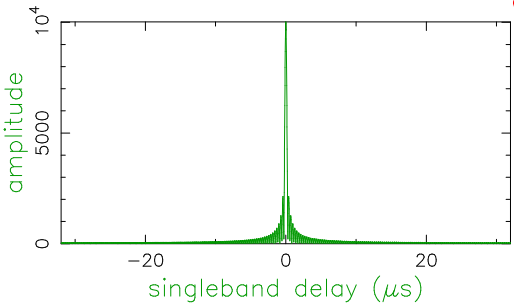
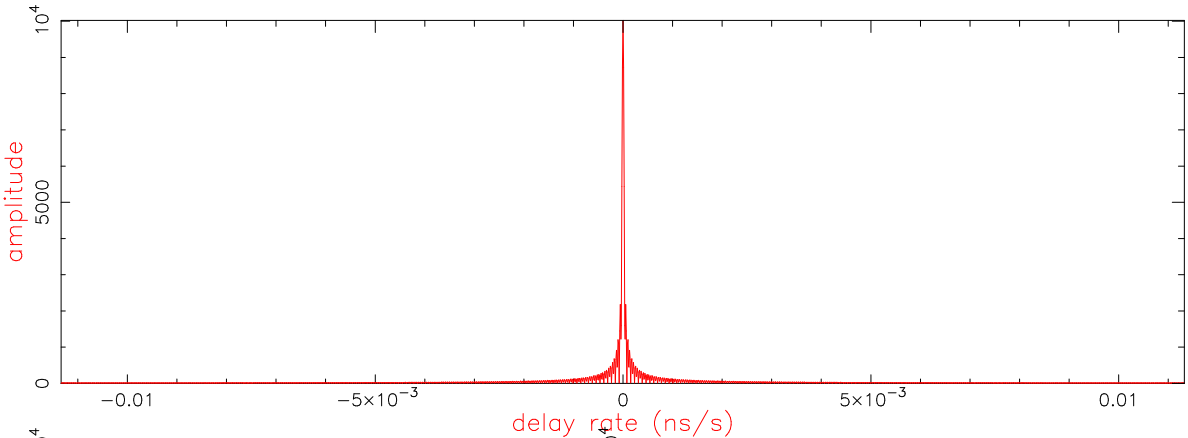
86227.00
129.0
0.4
1487.0
U/L 586/0
A 0
p 0
A:p 0:0
A:p 0:0
A 1000
p 1000
A W03UX
p W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.22562702796E+04	Apriori delay (usec)	-1.22552702850E+04	Resid mbdelay (usec)	-6.19110E-06	+/-	5.1E-03
Sband delay (usec)	-1.22562702850E+04	Apriori clock (usec)	-2.1131350E+03	Resid sbdelay (usec)	-1.00000E+00	+/-	5.1E-03
Phase delay (usec)	-1.22552702809E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	4.16053E-06	+/-	4.1E-07
Delay rate (us/s)	-7.74863394695E-01	Apriori rate (us/s)	-7.74859812103E-01	Resid rate (us/s)	-3.58259E-06	+/-	2.4E-09
Total phase (deg)	1.9	Apriori accel (us/s/s)	-6.79265279587E-06	Resid phase (deg)	128.7	+/-	12.7

ph/seg (deg)	RMS 92.8	Theor. 109.1	Amplitude Search (2048X8)	1.292 +/- 0.144	1.202	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	74.3	190.4	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.4	Inc. seg. avg.	0.605	Bits/sample: 2x2	ion window (TEC)	0.00 0.00
amp/frq (%)	70.7	11.1	Inc. frq. avg.	1.284	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011 0.011
					Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	

A: az 340.4 el 29.3 pa 158.0 p: az 84.0 el 73.9 pa -85.4 u,v (fr/asec) 5379.515 -7365.645 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Ap..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Ap.W.7.1T5GV4



Fringe quality 5

SNR 72679.3

Int time 299.957

Amp 10023.701

Phase -0.1

PFD 0.0e+00

Delays (us)

SBD 0.000000

MBD -0.000007

Fringe rate (Hz)

0.000000

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c211d

Exper # 16383

Yr:day 2021:117

Start 012100.00

Stop 012600.03

FRT 012330.00

Corr/FF/build

2021:228:043119

2021:228:051947

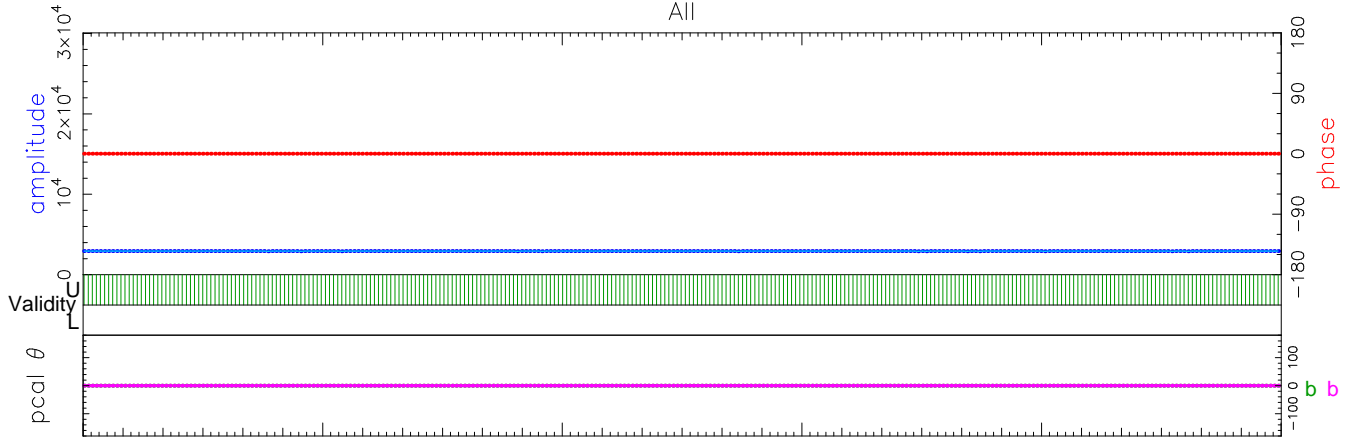
2021:057:122453

RA & Dec (J2000)

09h45m34.287498s

+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86227.00

0.2

2936.6

1537.0

U/L 586/0

b 0

b 0

b:b 0:0

b:b 0:0

b 1000

b 1000

b W03UR

b W03UR

Freq (MHz)

Phase

Ampl.

Sbd box

APs used

PC freqs

PC freqs

PC phase

ManI PC

PC amp

Chan ids

Chan ids

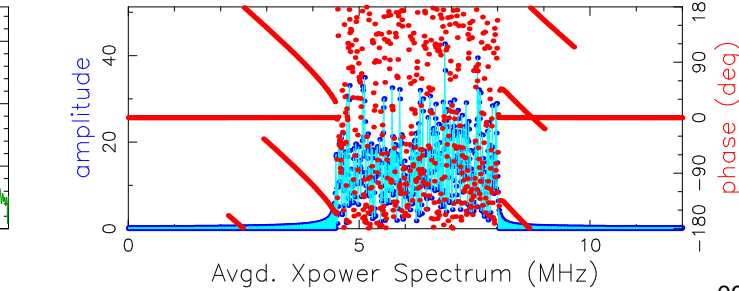
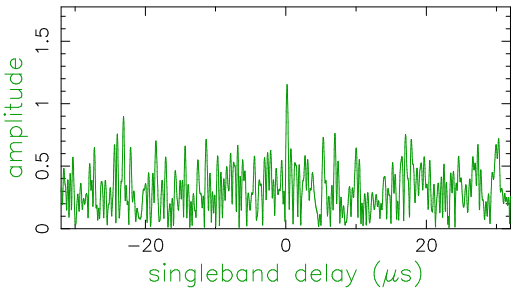
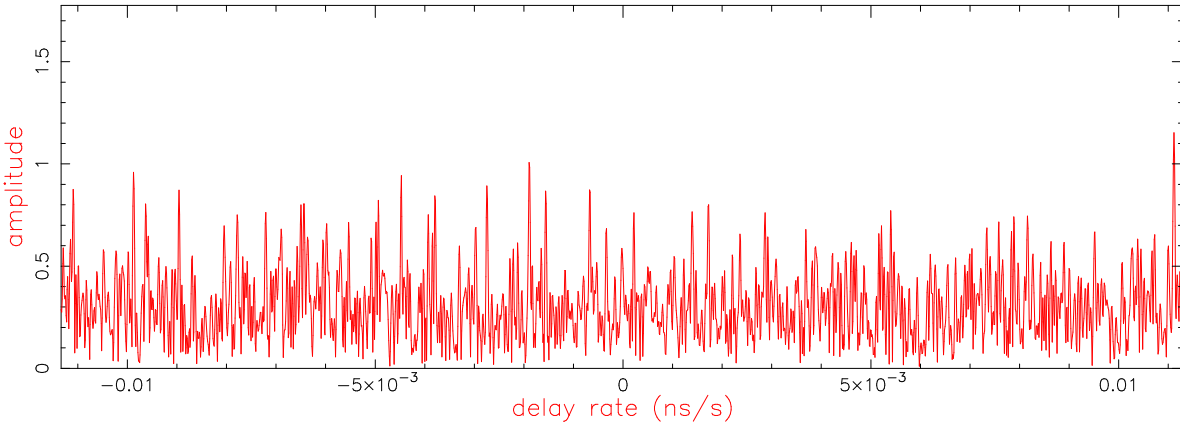
Group delay (usec)(sbd)	4.76648845489E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.83081E-06	+/-	6.3E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	7.37479749465E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.37480E-09	+/-	5.1E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10023.701 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10023.701	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2936.631	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10023.701	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

b: az 109.2 el 63.1 pa -50.1 b: az 109.2 el 63.1 pa -50.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

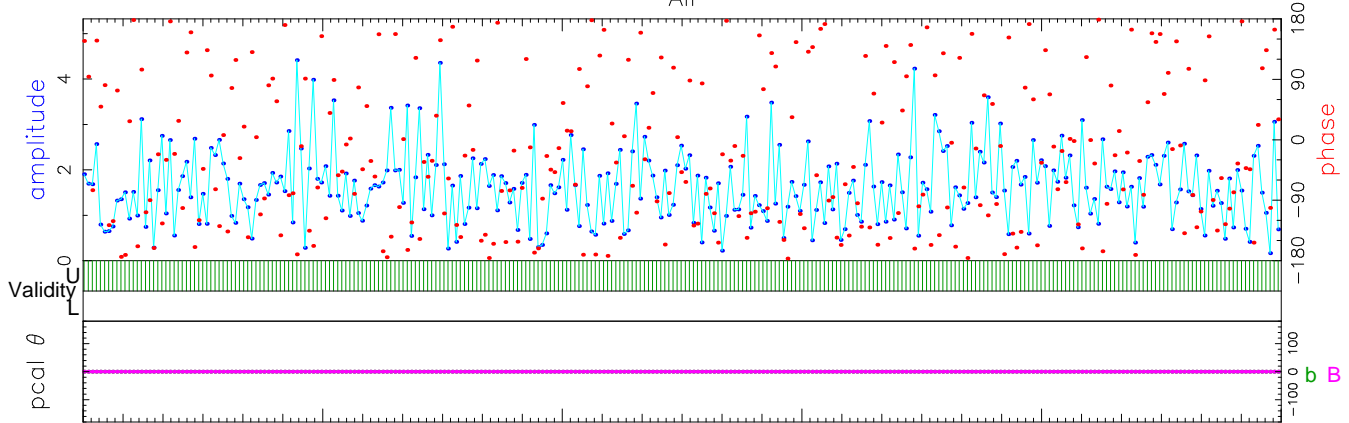
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bb..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bb.W.15.1T5GV4

Fringe quality 8



SNR 8.4
Int time 299.955
Amp 1.776
Phase -164.8
PFD 1.0e-09
Delays (us)
SBD 0.173237
MBD 0.000005
Fringe rate (Hz)
0.956179
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051948
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



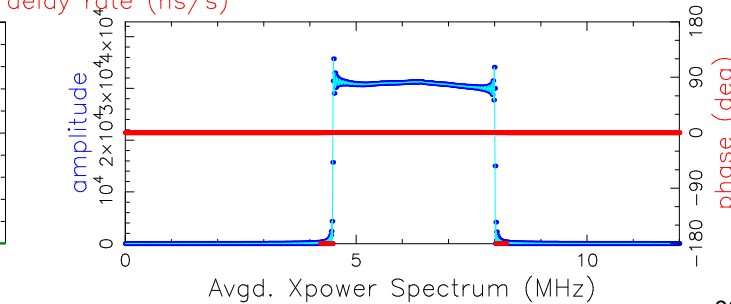
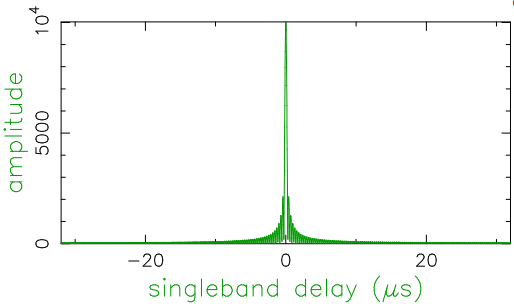
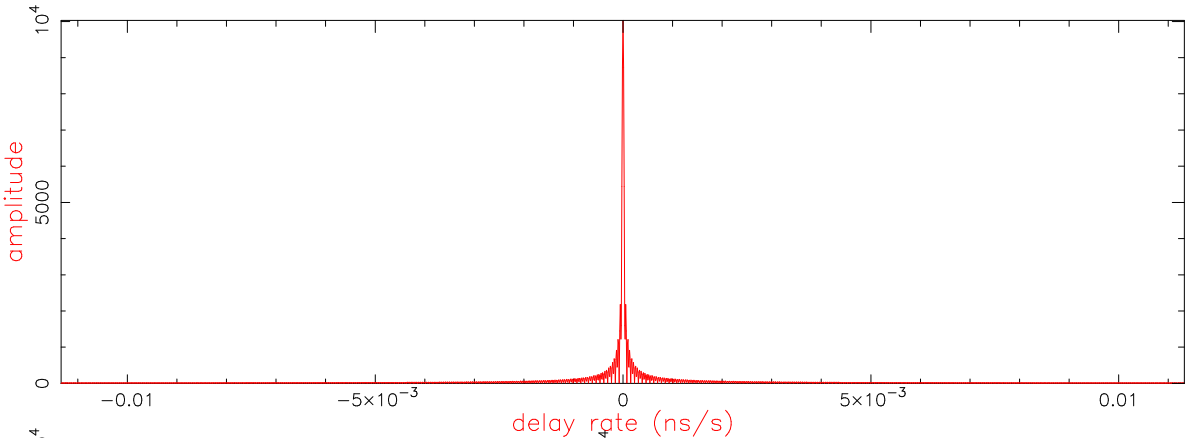
86227.00
-139.3
0.5
1545.3
U/L 586/0
b 0
B 0
b:B 0:0
b:B 0:0
b 1000
B 1000
b W03UL
B W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.10571829119E+04	Apriori delay (usec)	1.10570096786E+04	Resid mbdelay (usec)	4.57815E-06	+/-	5.5E-03
Sband delay (usec)	1.10571829159E+04	Apriori clock (usec)	1.9077219E+01	Resid sbdelay (usec)	1.73237E-01	+/-	5.5E-03
Phase delay (usec)	1.10570096741E+04	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-4.49094E-06	+/-	4.4E-07
Delay rate (us/s)	1.24169166285E+00	Apriori rate (us/s)	1.24168056256E+00	Resid rate (us/s)	1.11003E-05	+/-	2.5E-09
Total phase (deg)	-268.8	Apriori accel (us/s/s)	-6.04341907733E-05	Resid phase (deg)	-164.8	+/-	13.7

ph/seg (deg)	RMS 91.6	Theor. 117.2	Amplitude Search (2048X8)	1.776 +/- 0.212	1.136	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	80.5	204.6	Interp.	0.000	1.136	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Inc. seg. avg.	0.812	-9.9999998E-08	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.0	Inc. frq. avg.	1.762	1.24168056256E+00	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

b: az 109.2 el 63.1 pa -50.1 B: az 297.1 el 22.7 pa 43.3 u,v (fr/asec) -8702.800 -3389.092 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bB..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bB.W.19.1T5GV4

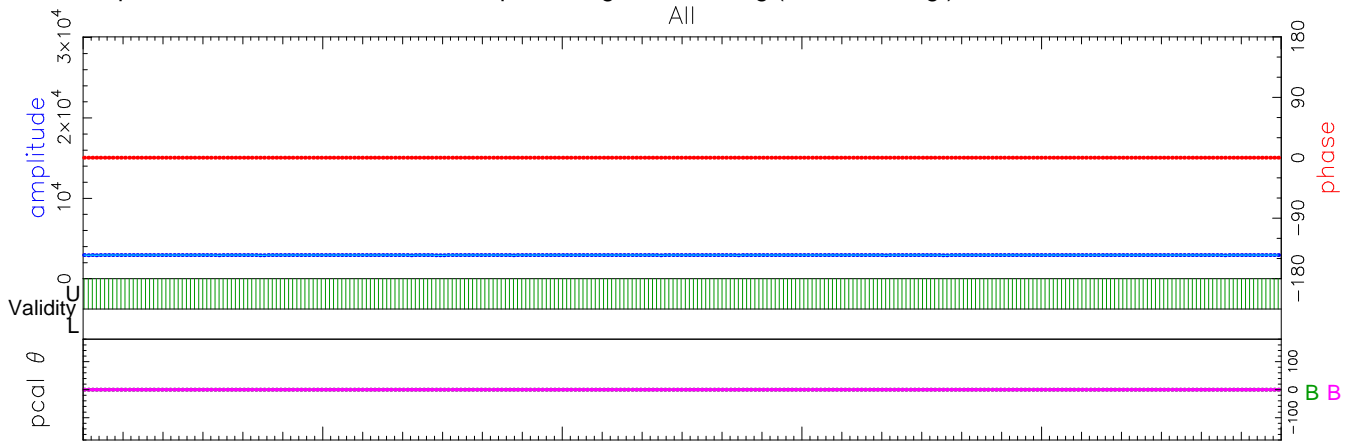


Fringe quality 5

SNR 72726.6
Int time 299.972
Amp 10029.970
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051948
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



86227.00
0.2
2938.5
1537.0
U/L 586/0
B 0
B 0
B:B 0:0
B:B 0:0
B 1000
B 1000
B W03UL
B W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp

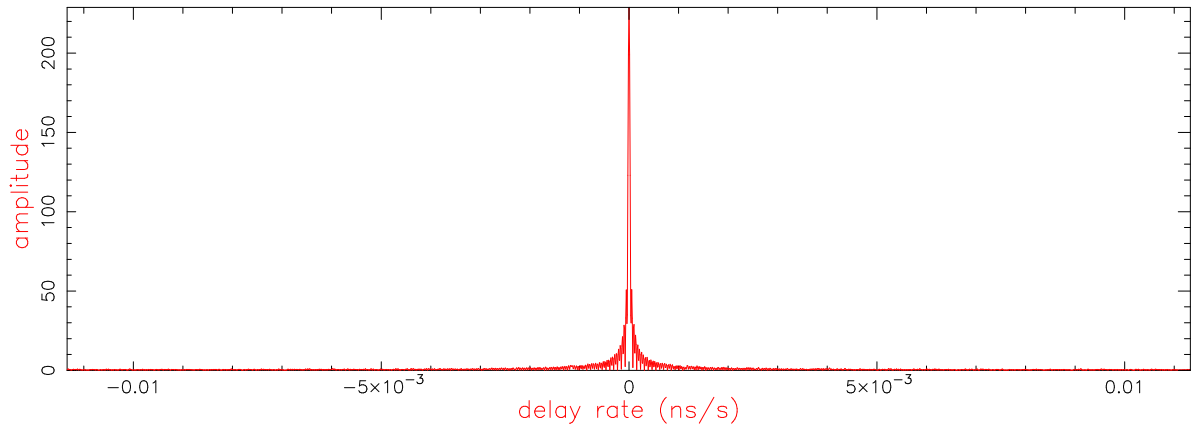
Chan ids
Chan ids

Group delay (usec)(sbd)	4.70850197734E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.88879E-06	+/-	6.3E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	7.43740188764E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.43740E-09	+/-	5.1E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10029.971 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10029.971	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2938.468	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10029.971	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

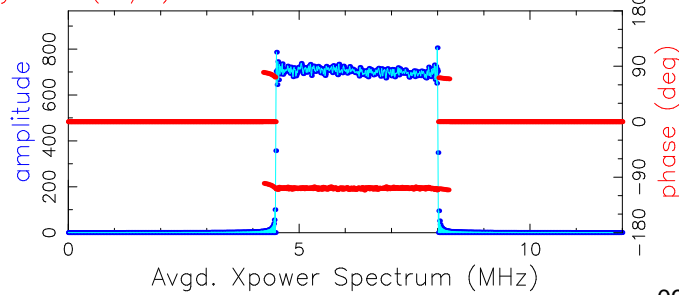
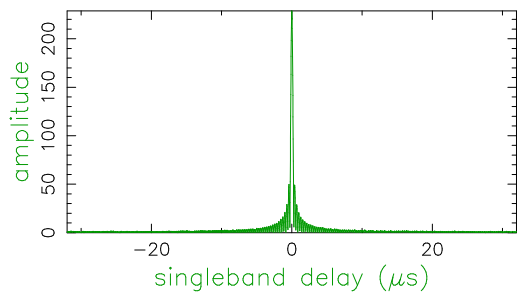
B: az 297.1 el 22.7 pa 43.3 B: az 297.1 el 22.7 pa 43.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/BB..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/BB.W.20.1T5GV4



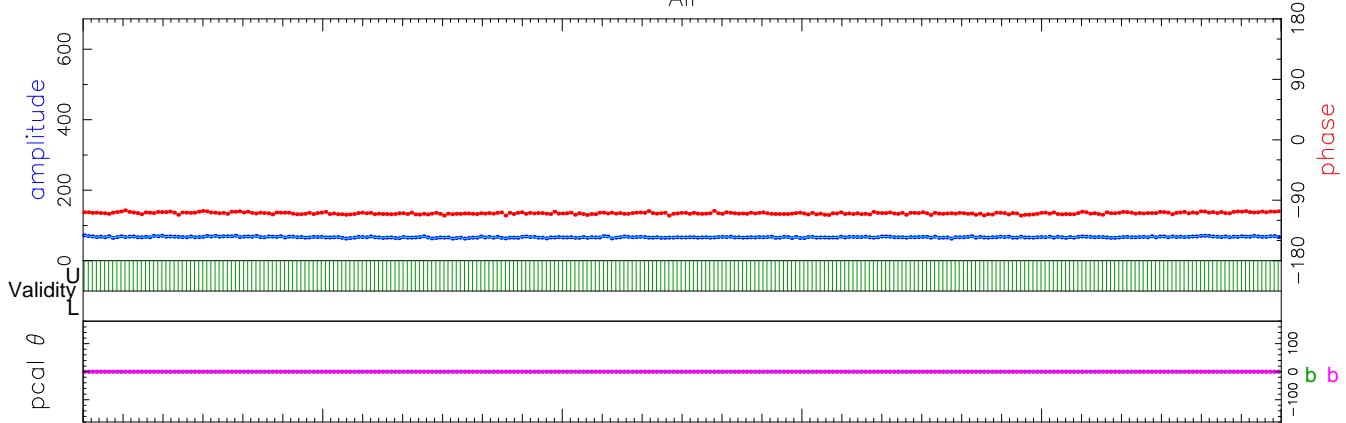
Fringe quality 5

SNR 1659.1
Int time 299.957
Amp 228.817
Phase -92.9
PFD 0.0e+00
Delays (us)
SBD -0.000524
MBD -0.000007
Fringe rate (Hz)
0.000005
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051948
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-109.2
67.0
1537.0
U/L 586/0
b 0
b 0
b:b 0:0
b:b 0:0
b 1000
b 1000
b W03UL
b W03UR

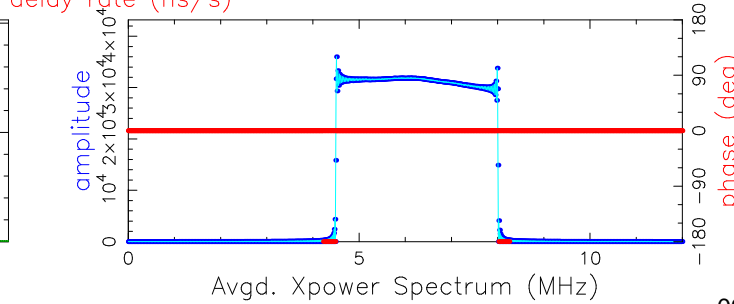
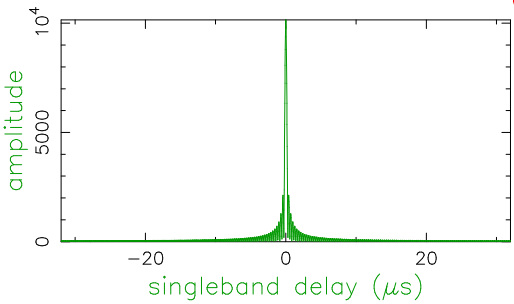
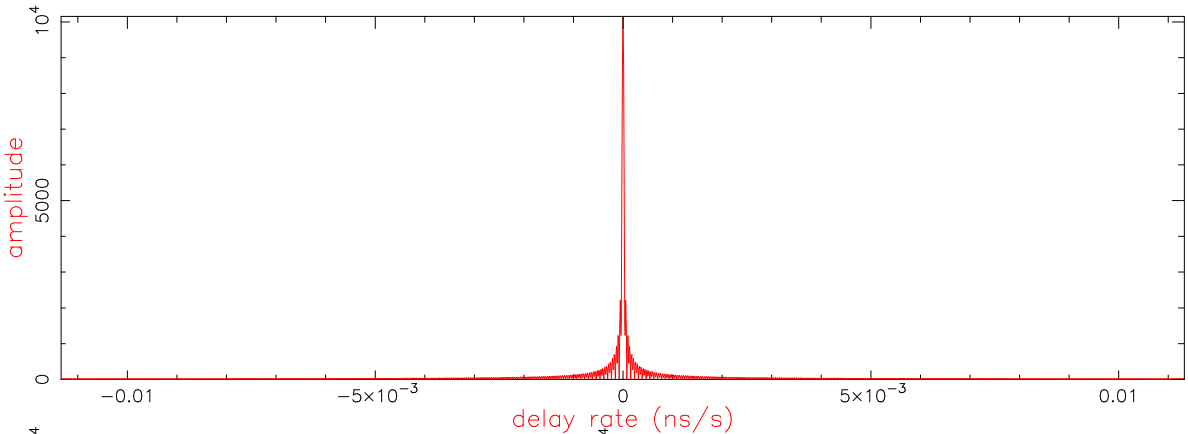
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-5.28941050947E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.06275E-06	+/- 2.8E-05
Sband delay (usec)	-5.24000000000E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-5.24000E-04	+/- 2.8E-05
Phase delay (usec)	-3.52151566574E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.52152E-06	+/- 2.2E-09
Delay rate (us/s)	5.24332638492E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	5.24333E-11	+/- 1.3E-11
Total phase (deg)	-92.9	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-92.9	+/- 0.1

ph/seg (deg)	1.4	Theor.	0.6	Amplitude	228.817 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		1.0	Search (2048X8)	228.815	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.1	Inc. seg. avg.	67.051	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	228.816	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

b: az 109.2 el 63.1 pa -50.1 b: az 109.2 el 63.1 pa -50.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bb..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bb.W.25.1T5GV4

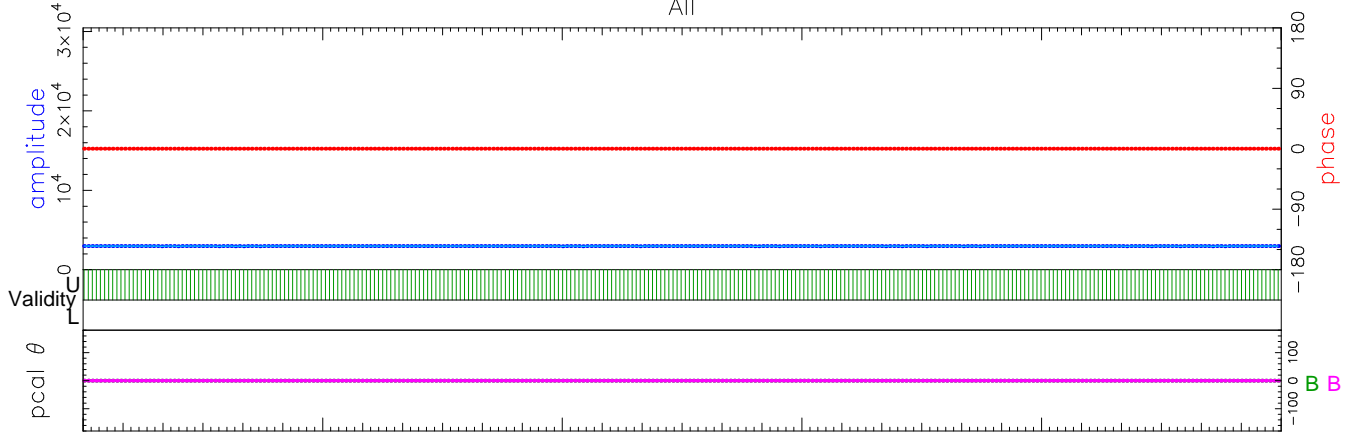


Fringe quality 5

SNR 73632.0
Int time 299.972
Amp 10154.836
Phase 0.2
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000006
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051948
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
0.2
2975.0
1537.0
U/L 586/0
B 0
B 0
B:B 0:0
B:B 0:0
B 1000
B 1000
B W03UR
B W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp

Chan ids
Chan ids

Group delay (usec)(sbd)	-5.73954793742E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.73955E-06	+/-	6.2E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.2E-07
Phase delay (usec)	6.19663290202E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.19663E-09	+/-	5.0E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-13
Total phase (deg)	0.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	0.2	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10154.836 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10154.837	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2975.050	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10154.837	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

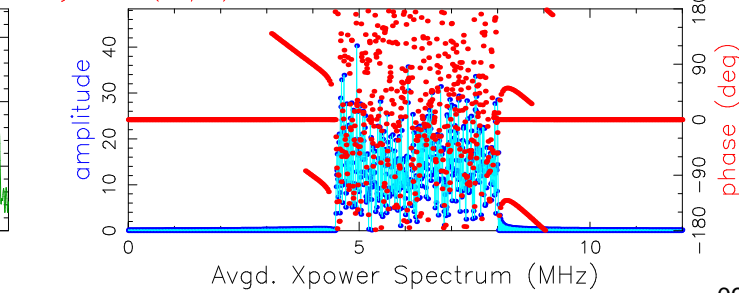
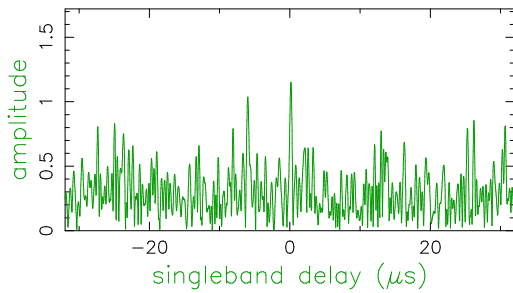
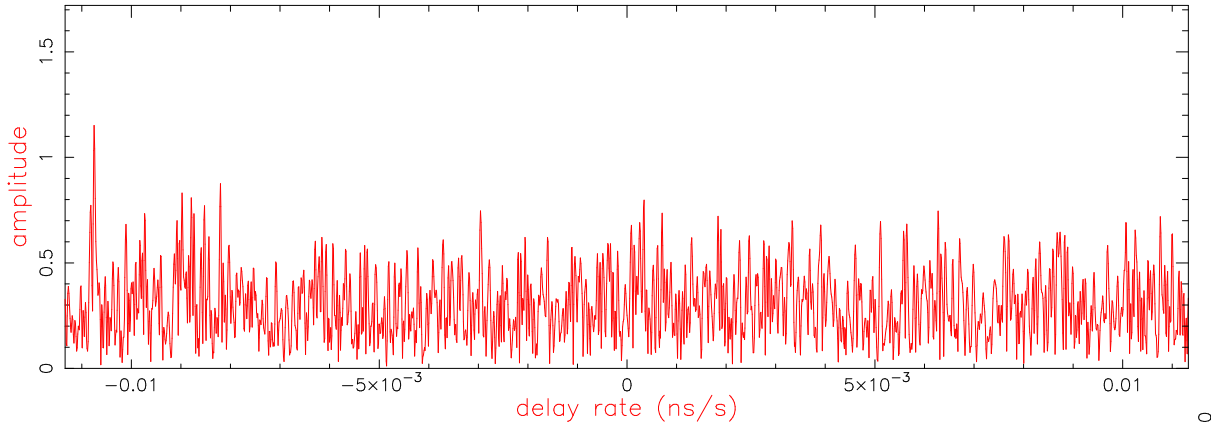
B: az 297.1 el 22.7 pa 43.3 B: az 297.1 el 22.7 pa 43.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/BB..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/BB.W.26.1T5GV4

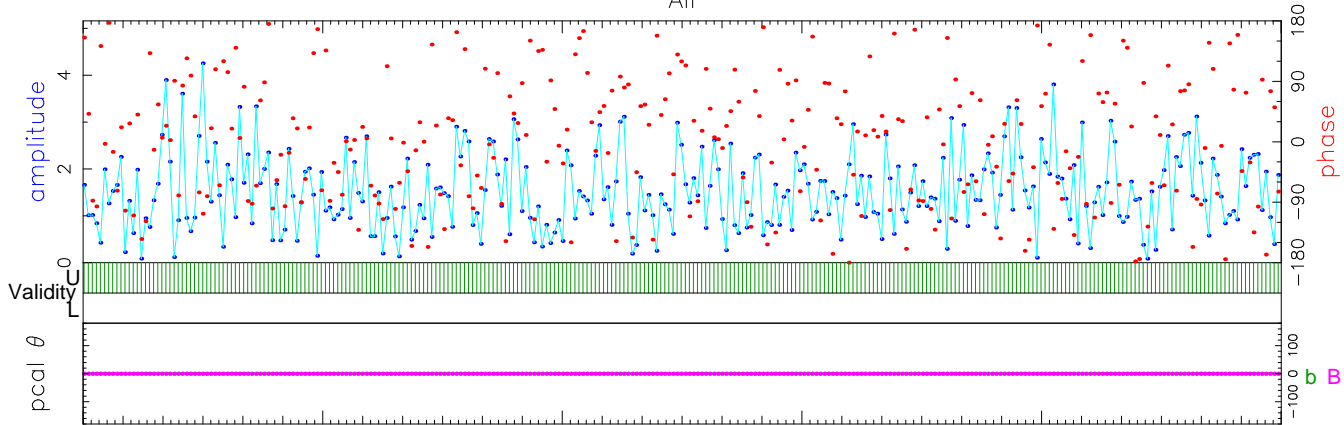
Fringe quality 8

SNR 8.4
Int time 299.955
Amp 1.721
Phase -321.5
PFD 1.1e-09
Delays (us)
SBD 0.159904
MBD -0.000007
Fringe rate (Hz)
-0.924914
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051949
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



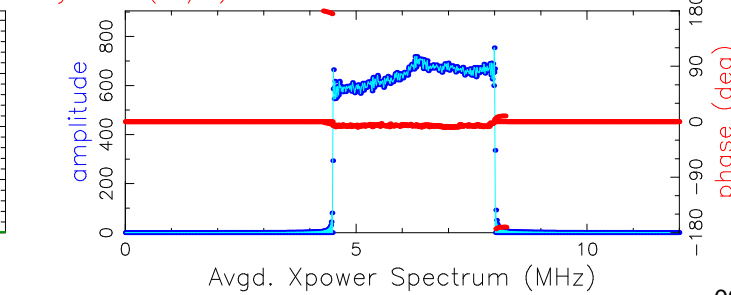
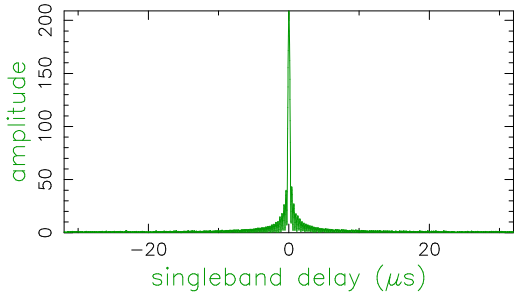
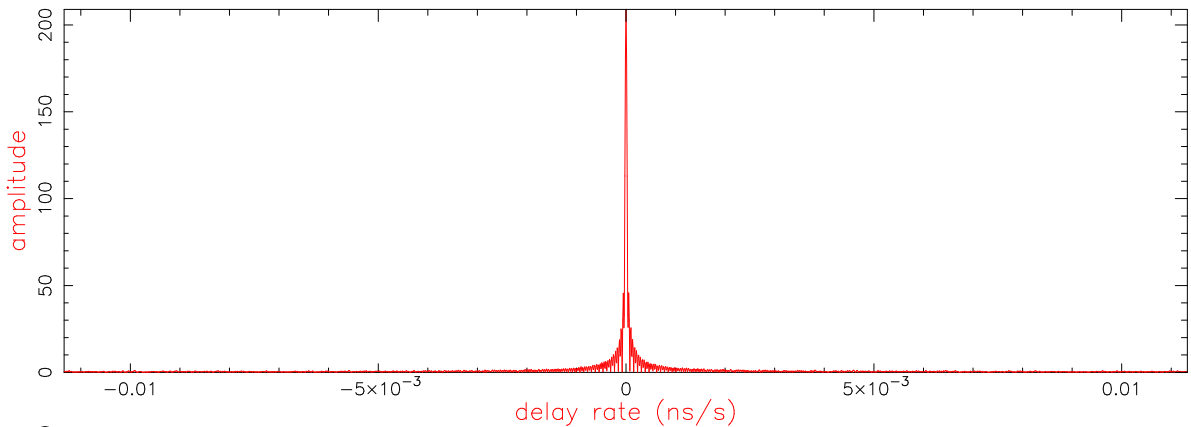
86227.00
7.0
0.5
1544.7
U/L 586/0
b 0
B 0
b:B 0:0
b:B 0:0
b 1000
B 1000
b W03UR
B W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.10571695864E+04	Apriori delay (usec)	1.10570096786E+04	Resid mbdelay (usec)	-7.24230E-06	+/- 5.5E-03
Sband delay (usec)	1.10571695826E+04	Apriori clock (usec)	1.9077219E+01	Resid sbdelay (usec)	1.59904E-01	+/- 5.5E-03
Phase delay (usec)	1.10570096788E+04	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	2.27055E-07	+/- 4.4E-07
Delay rate (us/s)	1.24166982523E+00	Apriori rate (us/s)	1.24168056256E+00	Resid rate (us/s)	-1.07373E-05	+/- 2.6E-09
Total phase (deg)	-65.5	Apriori accel (us/s/s)	-6.04341907733E-05	Resid phase (deg)	-321.5	+/- 13.7

ph/seg (deg)	RMS 91.8	Theor. 117.4	Amplitude Search (2048X8)	1.721 +/- 0.206	1.148	1.148	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.5	204.8	Interp.	0.000	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.734	0.734	Sample rate(MISamp/s): 24		mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.0	Inc. frq. avg.	1.707	1.707	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
								ion window (TEC) 0.00 0.00

b: az 109.2 el 63.1 pa -50.1 B: az 297.1 el 22.7 pa 43.3 u,v (fr/asec) -8702.800 -3389.092 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bB..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bB.W.27.1T5GV4

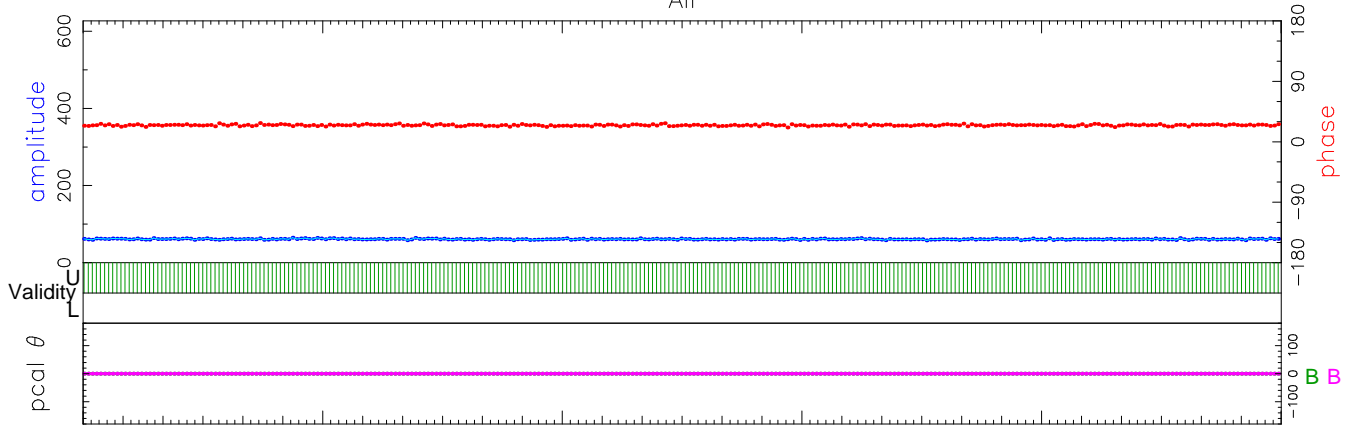


Fringe quality 5

SNR 1515.2
Int time 299.972
Amp 208.964
Phase -75.5
PFD 0.0e+00
Delays (us)
SBD 0.014688
MBD -0.000005
Fringe rate (Hz)
0.000004
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051949
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
24.7
61.2
1537.7
U/L 586/0
B 0
B 0
B:B 0:0
B:B 0:0
B 1000
B 1000
B W03UL
B W03UR

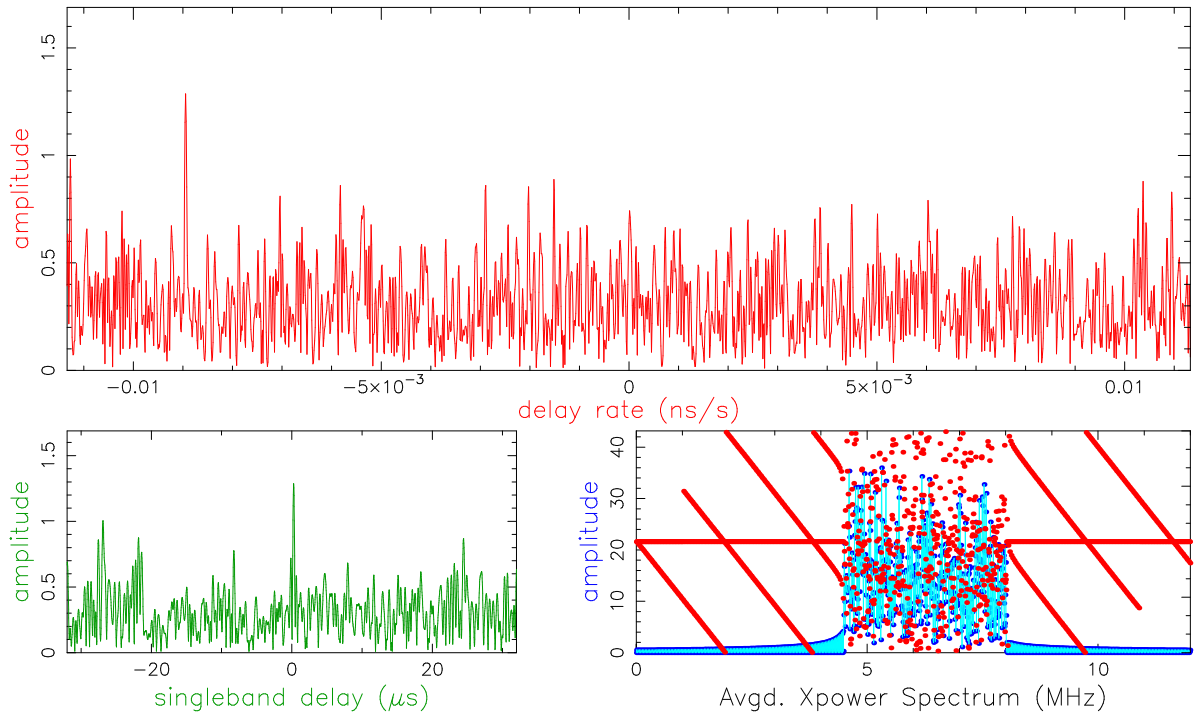
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.46889976457E-02	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.77577E-06	+/-	3.0E-05
Sband delay (usec)	1.46880000000E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.46880E-02	+/-	3.0E-05
Phase delay (usec)	7.96097662065E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.96098E-07	+/-	2.4E-09
Delay rate (us/s)	4.74733605121E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	4.74734E-11	+/-	1.4E-11
Total phase (deg)	-75.5	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-75.5	+/-	0.1

ph/seg (deg)	RMS 1.1	Theor. 0.6	Amplitude 208.964 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	1.1	Search (2048X8) 208.807	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	0.0	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	0.1	Inc. seg. avg. 61.181	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 208.807	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				nlags: 1536 t_cohere infinite	

B: az 297.1 el 22.7 pa 43.3 B: az 297.1 el 22.7 pa 43.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

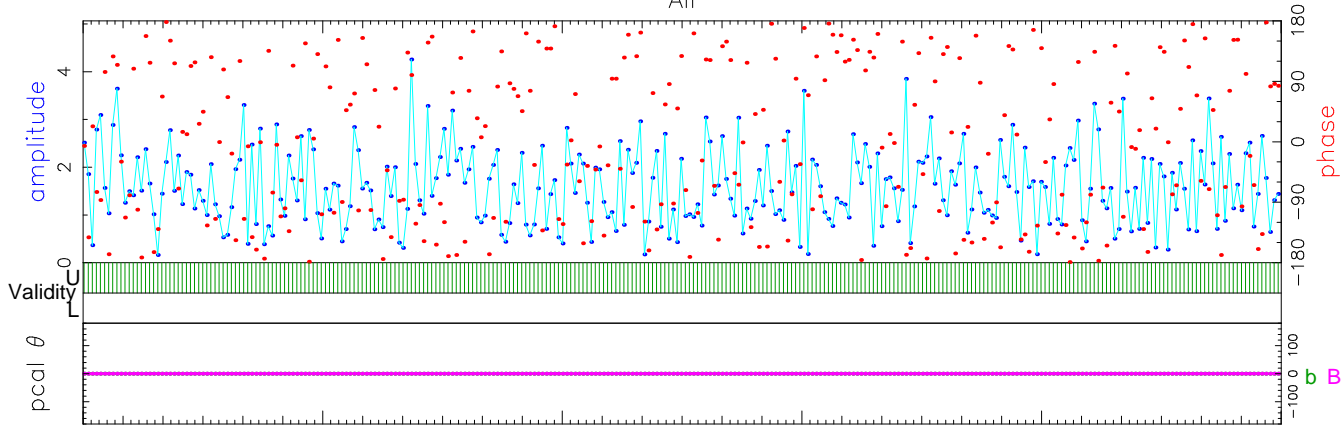
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/BB..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/BB.W.34.1T5GV4



Fringe quality 8

SNR 9.3
Int time 299.955
Amp 1.689
Phase -34.0
PFD 1.7e-13
Delays (us)
SBD 0.259309
MBD -0.000004
Fringe rate (Hz)
-0.769567
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051950
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

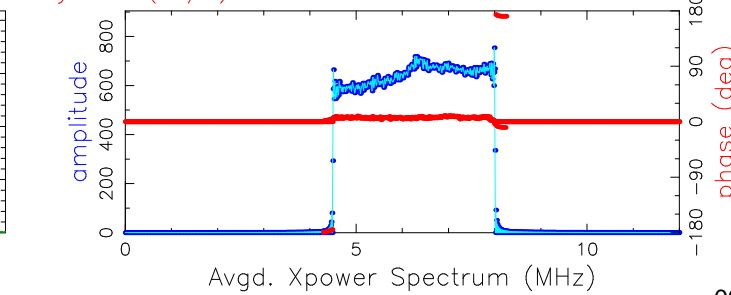
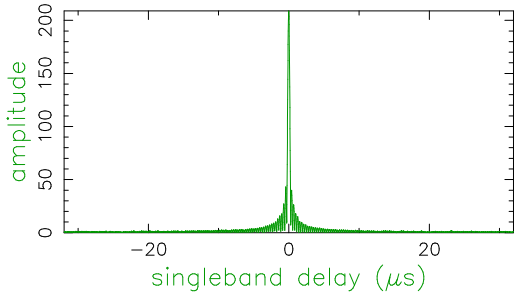
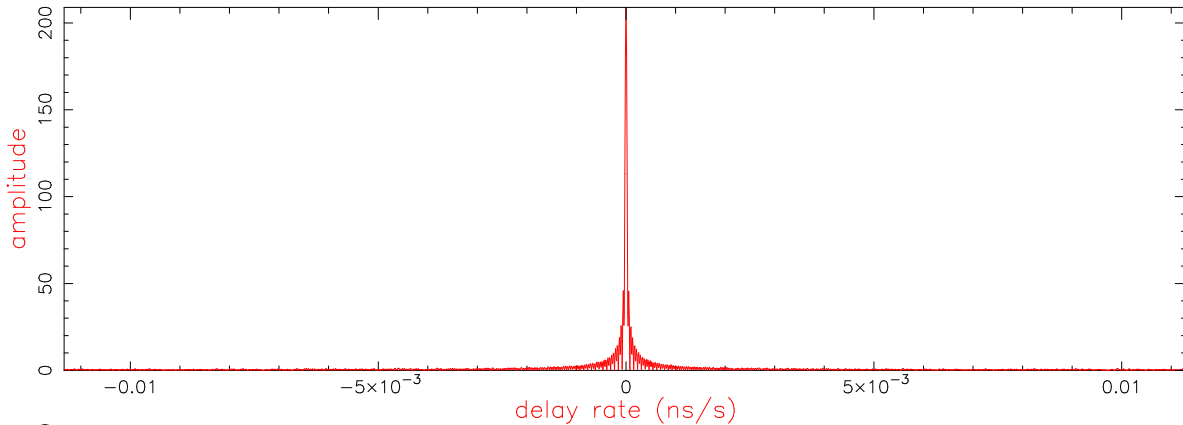


86227.00
167.8
0.5
1549.4
U/L 586/0
b 0
B 0
b:B 0:0
b:B 0:0
b 1000
B 1000
b W03UL
B W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.10572689896E+04	Apriori delay (usec)	1.10570096786E+04	Resid mbdelay (usec)	-4.49966E-06	+/- 4.9E-03
Sband delay (usec)	1.10572689879E+04	Apriori clock (usec)	1.9077219E+01	Resid sbdelay (usec)	2.59309E-01	+/- 4.9E-03
Phase delay (usec)	1.10570096840E+04	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	5.40992E-06	+/- 4.0E-07
Delay rate (us/s)	1.24167162865E+00	Apriori rate (us/s)	1.24168056256E+00	Resid rate (us/s)	-8.93391E-06	+/- 2.3E-09
Total phase (deg)	-138.0	Apriori accel (us/s/s)	-6.04341907733E-05	Resid phase (deg)	-34.0	+/- 12.3

ph/seg (deg)	RMS 91.8	Theor. 104.9	Amplitude Search (2048X8)	1.689 +/- 0.181	1.276	1.276	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	66.6	183.1	Interp.	0.000	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	6.1	Inc. seg. avg.	0.781	0.781	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.8	10.7	Inc. frq. avg.	1.675	1.675	Sample rate(MISamp/s): 24	ion window (TEC)	0.00 0.00	
		b: az 109.2 el 63.1 pa -50.1		B: az 297.1 el 22.7 pa 43.3		u,v (fr/asec) -8702.800 -3389.092		simultaneous interpolator	

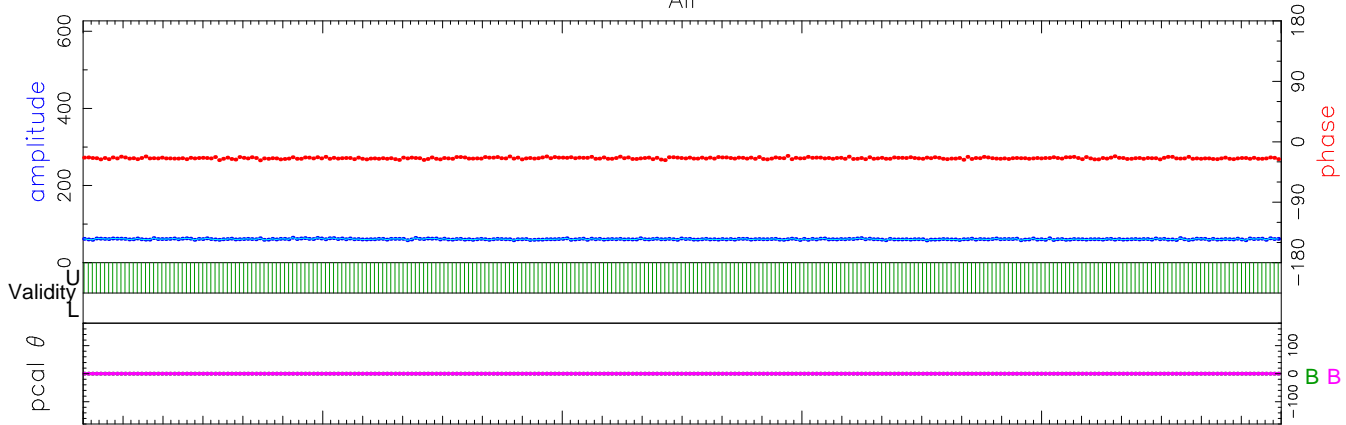


Fringe quality 5

SNR 1515.2
Int time 299.972
Amp 208.964
Phase 75.5
PFD 0.0e+00
Delays (us)
SBD -0.014688
MBD -0.000004
Fringe rate (Hz)
-0.000004
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051950
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-24.4
61.2
1536.3
U/L 586/0
B 0
B 0
B:B 0:0
B:B 0:0
B 1000
B 1000
B W03UR
B W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.46865930625E-02	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.41695E-06	+/-	3.0E-05
Sband delay (usec)	-1.46880000000E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.46880E-02	+/-	3.0E-05
Phase delay (usec)	-7.86172862731E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-7.86173E-07	+/-	2.4E-09
Delay rate (us/s)	-4.74733605121E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-4.74734E-11	+/-	1.4E-11
Total phase (deg)	75.5	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	75.5	+/-	0.1

ph/seg (deg) 1.1 0.6
amp/seg (%) 70.7 1.1
ph/frq (deg) 0.0 0.0
amp/frq (%) 70.7 0.1

RMS Theor. Amplitude 208.964 +/- 0.138
Search (2048X8) 208.807
Interp. 0.000
Inc. seg. avg. 61.181
Inc. frq. avg. 208.807

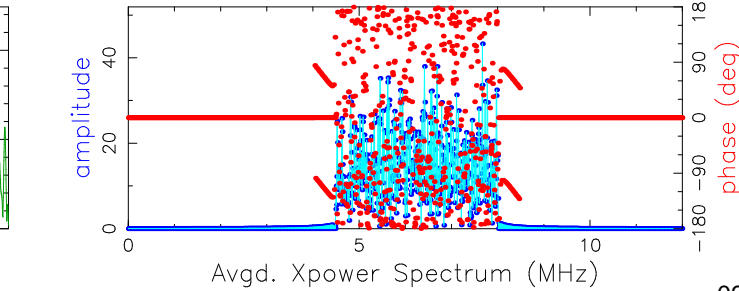
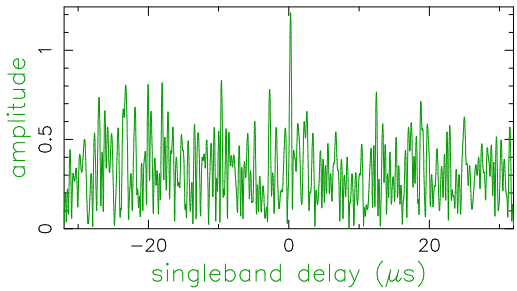
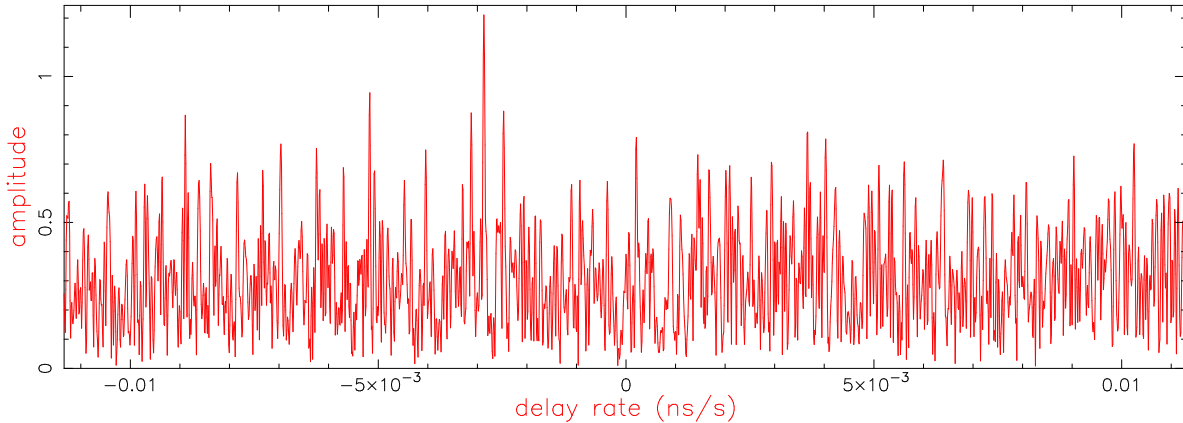
Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MISamp/s): 24
Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite

sb window (us) -1.000 1.000
mb window (us) -0.000 0.000
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

B: az 297.1 el 22.7 pa 43.3 B: az 297.1 el 22.7 pa 43.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

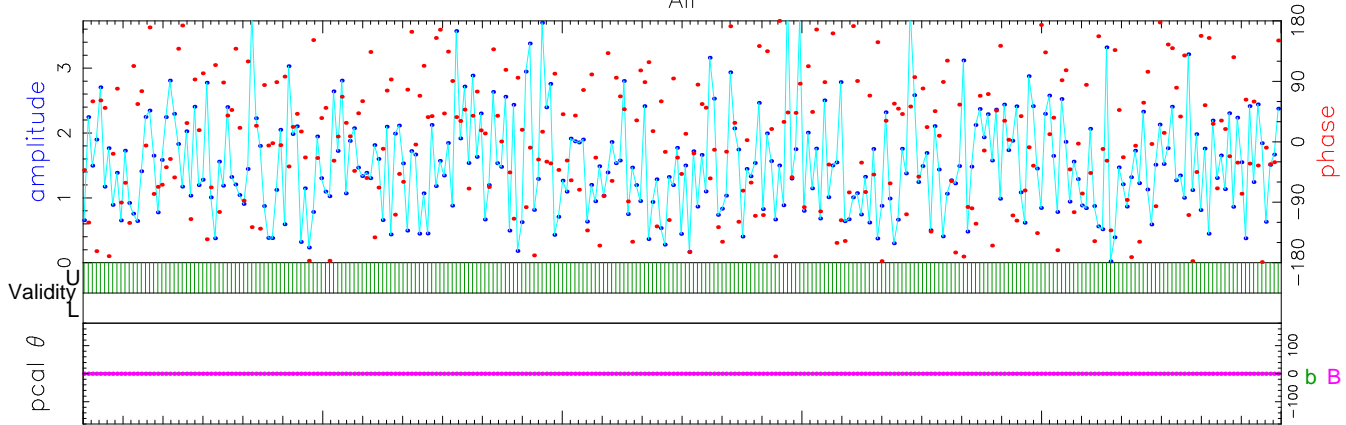
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/BB..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/BB.W.44.1T5GV4

Fringe quality 8



SNR 8.8
Int time 299.955
Amp 1.243
Phase -76.4
PFD 2.9e-11
Delays (us)
SBD 0.244295
MBD -0.000005
Fringe rate (Hz)
-0.246879
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051951
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
15.0
0.4
1548.7
U/L 586/0
b 0
B 0
b:B 0:0
b:B 0:0
b 1000
B 1000
b W03UR
B W03UL

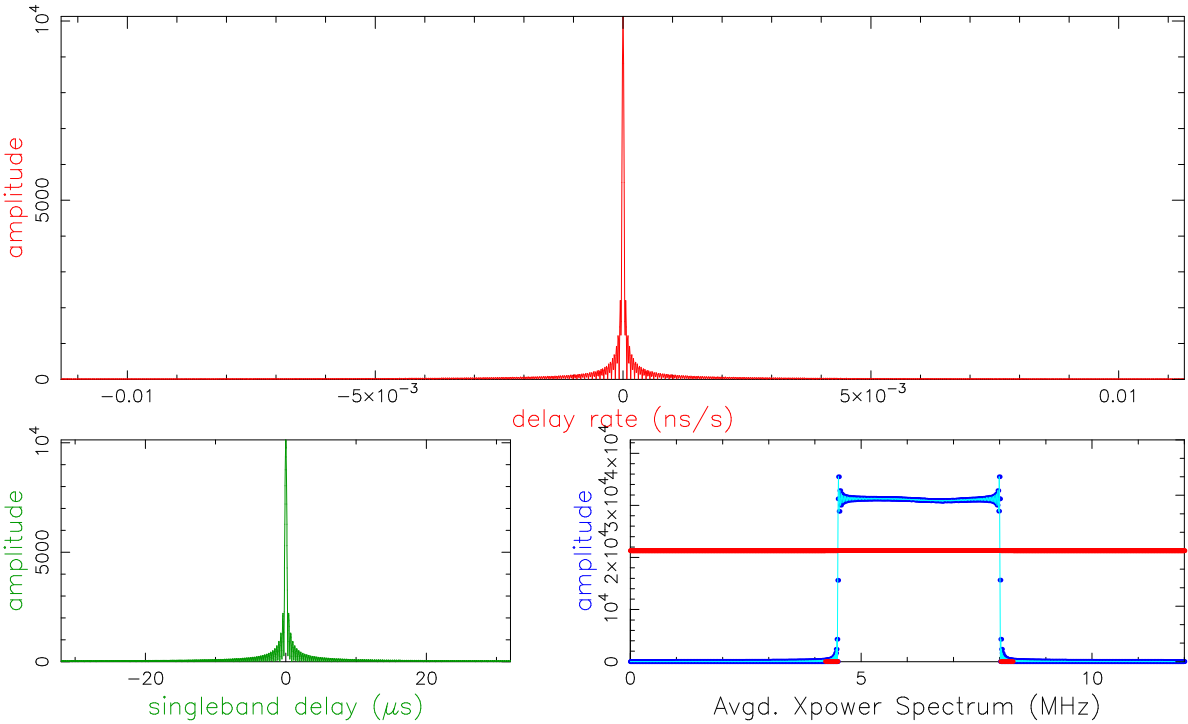
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.10572539711E+04	Apriori delay (usec)	1.10570096786E+04	Resid mbdelay (usec)	-4.52053E-06	+/- 5.2E-03
Sband delay (usec)	1.10572539732E+04	Apriori clock (usec)	1.9077219E+01	Resid sbdelay (usec)	2.44295E-01	+/- 5.2E-03
Phase delay (usec)	1.10570096790E+04	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	4.83400E-07	+/- 4.2E-07
Delay rate (us/s)	1.24167769654E+00	Apriori rate (us/s)	1.24168056256E+00	Resid rate (us/s)	-2.86602E-06	+/- 2.4E-09
Total phase (deg)	-180.4	Apriori accel (us/s/s)	-6.04341907733E-05	Resid phase (deg)	-76.4	+/- 13.1

ph/seg (deg)	RMS 92.1	Theor. 111.7	Amplitude Search (2048X8)	1.243 +/- 0.142	1.207	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	69.6	195.0	Interp.	0.000	1.235	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Inc. seg. avg.	0.540		Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.4	Inc. frq. avg.	1.235		Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

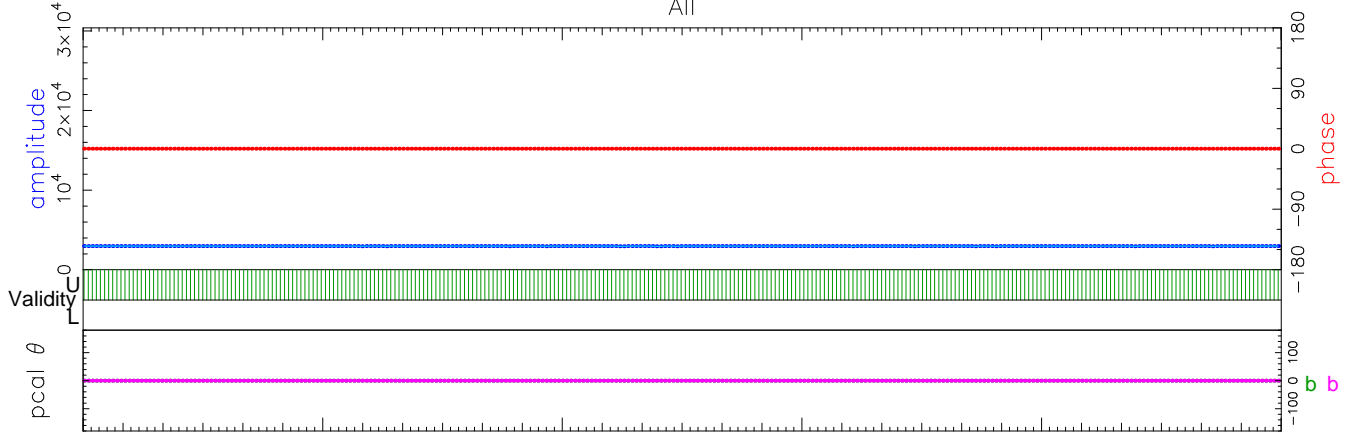
b: az 109.2 el 63.1 pa -50.1 B: az 297.1 el 22.7 pa 43.3 u,v (fr/asec) -8702.800 -3389.092 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bB..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bB.W.46.1T5GV4



Fringe quality 5
SNR 73457.9
Int time 299.957
Amp 10131.078
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051946
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



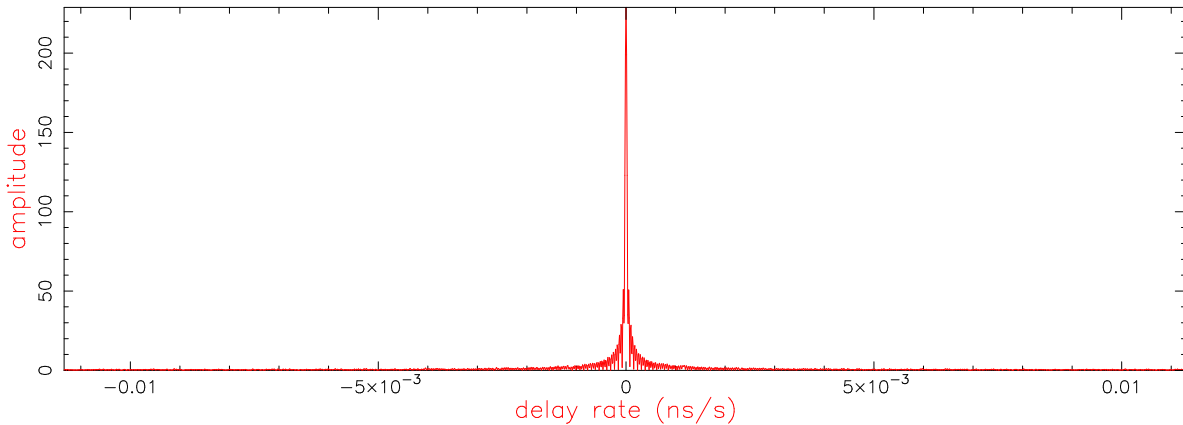
86227.00
0.2
2968.1
1537.0
U/L 586/0
b 0
b 0
b:b 0:0
b:b 0:0
b 1000
b 1000
b W03UL
b W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

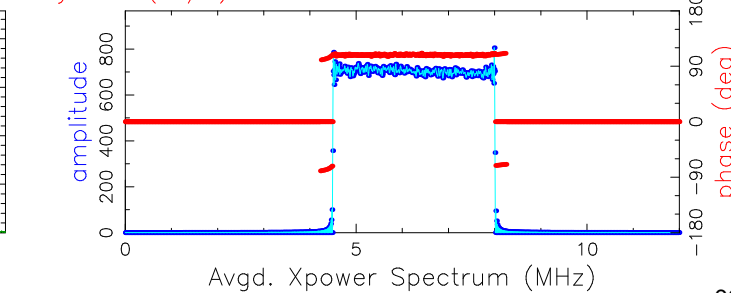
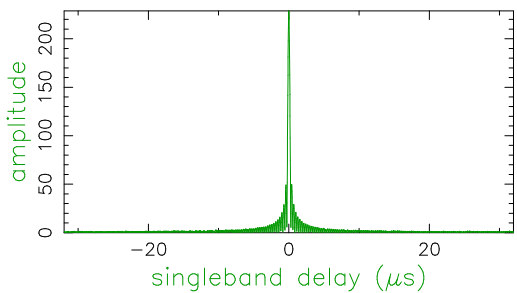
Group delay (usec)(sbd)	4.34903220569E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.24826E-06	+/-	6.3E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	7.82549904069E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.82550E-09	+/-	5.0E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10131.078 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 70.7 0.0 Search (2048X8) 10131.078 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 70.7 0.0 Inc. seg. avg. 2968.089 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011
b: az 109.2 el 63.1 pa -50.1 b: az 109.2 el 63.1 pa -50.1 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bb..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bb.W.5.1T5GV4 simultaneous interpolator

Fringe quality 5

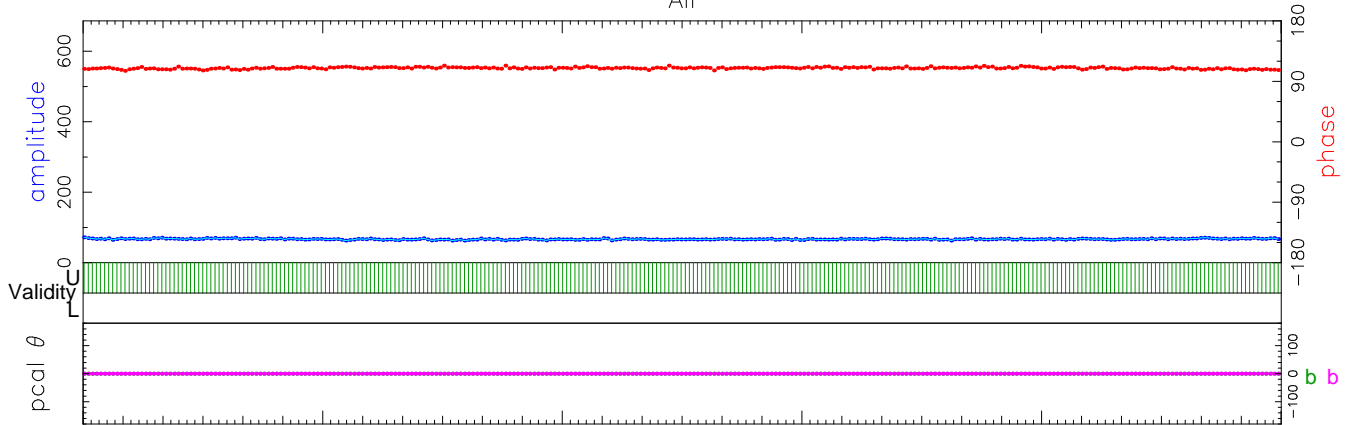


SNR 1659.1
Int time 299.957
Amp 228.817
Phase 92.9
PFD 0.0e+00
Delays (us)
SBD 0.000524
MBD -0.000006
Fringe rate (Hz)
-0.000005
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051951
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



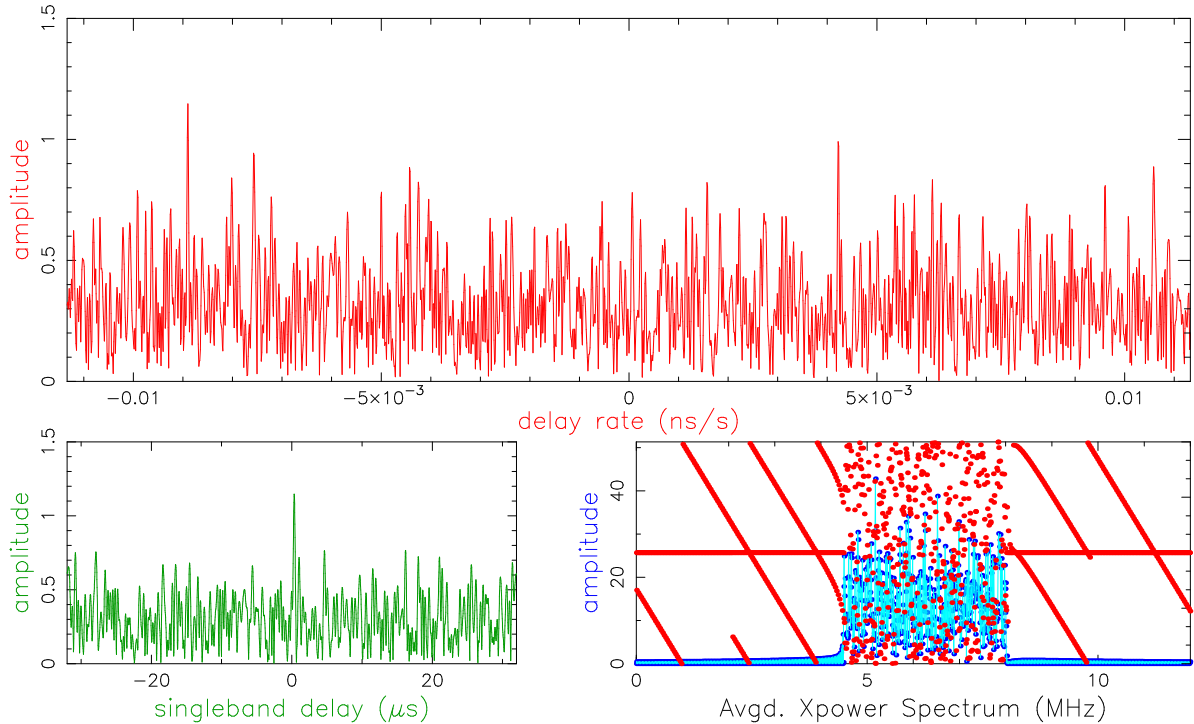
86227.00
109.7
67.0
1537.0
U/L 586/0
b 0
b 0
b:b 0:0
b:b 0:0
b 1000
b 1000
b W03UR
b W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	5.27143006251E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.33259E-06	+/- 2.8E-05
Sband delay (usec)	5.24000000000E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	5.24000E-04	+/- 2.8E-05
Phase delay (usec)	3.53597778158E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.53598E-06	+/- 2.2E-09
Delay rate (us/s)	-5.24332638492E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-5.24333E-11	+/- 1.3E-11
Total phase (deg)	92.9	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	92.9	+/- 0.1

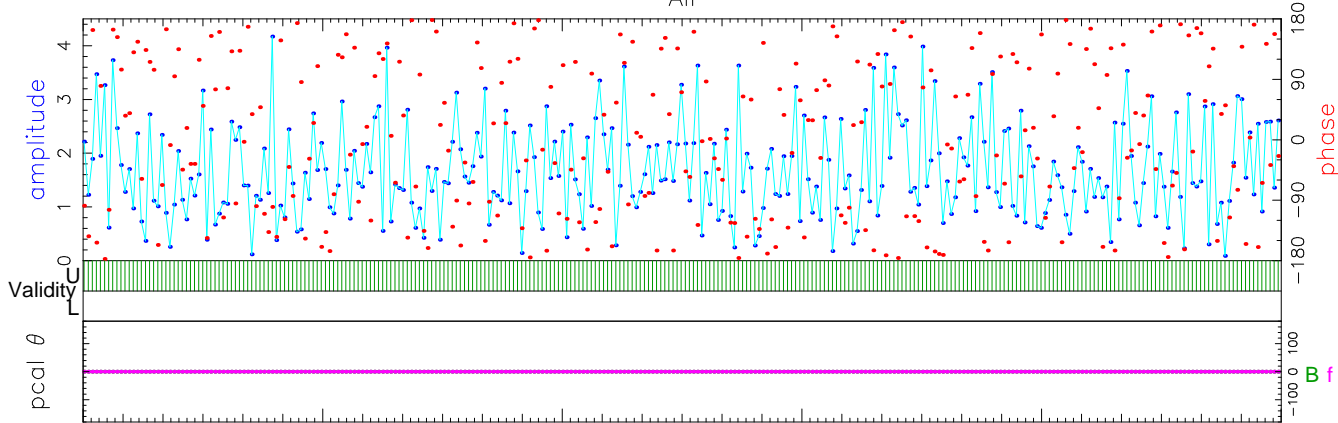
ph/seg (deg)	RMS 1.4	Theor. 0.6	Amplitude 228.817 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	1.0	Search (2048X8) 228.815	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	0.0	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	0.1	Inc. seg. avg. 67.051	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 228.816	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

b: az 109.2 el 63.1 pa -50.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bb..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bb.W.53.1T5GV4



Fringe quality 8
SNR 8.3
Int time 299.972
Amp 1.500
Phase -89.9
PFD 1.4e-09
Delays (us)
SBD 0.341681
MBD -0.000005
Fringe rate (Hz)
-0.765983
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051947
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
171.9
0.4
1553.4
U/L 586/0
B 0
f 0
B:f 0:0
B:f 0:0
B 1000
f 1000
B W03UL
f W03UL

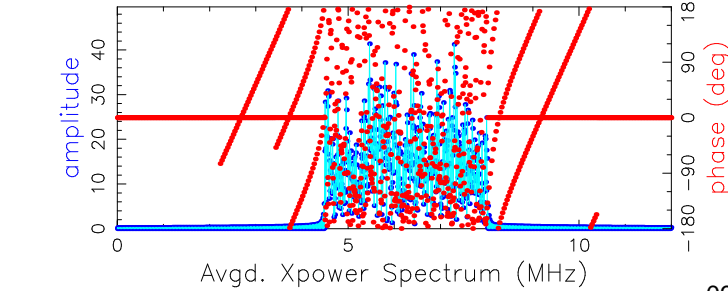
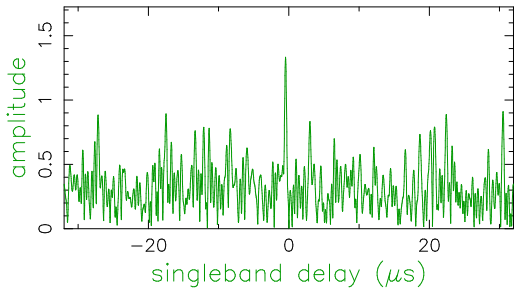
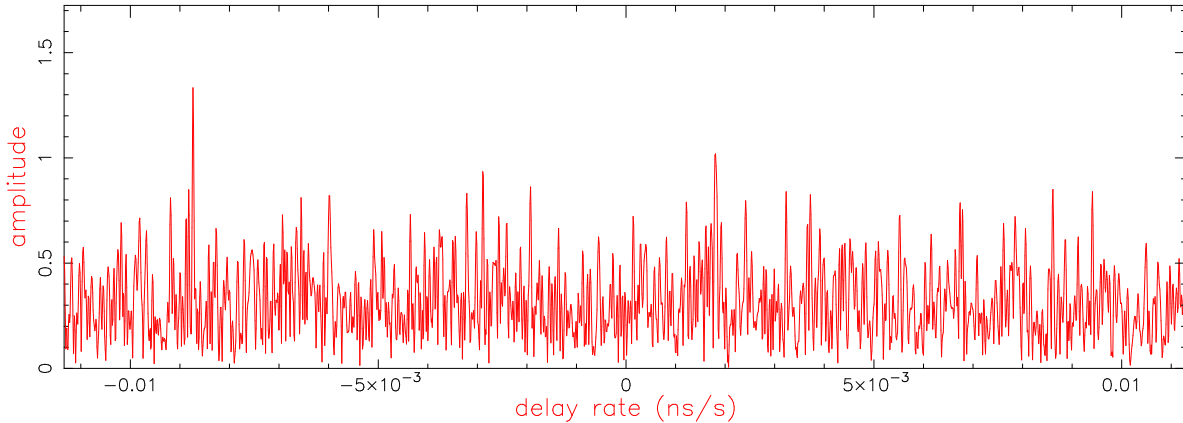
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.27499152103E+04	Apriori delay (usec)	-1.27502568966E+04	Resid mbdelay (usec)	-4.75675E-06	+/-	5.5E-03
Sband delay (usec)	-1.27499152153E+04	Apriori clock (usec)	-3.2329170E+01	Resid sbdelay (usec)	3.41681E-01	+/-	5.5E-03
Phase delay (usec)	-1.27502568911E+04	Apriori clockrate (us/s)	-1.4999999E-07	Resid phdelay (usec)	5.54217E-06	+/-	4.4E-07
Delay rate (us/s)	-1.08685625262E+00	Apriori rate (us/s)	-1.08684736032E+00	Resid rate (us/s)	-8.89230E-06	+/-	2.6E-09
Total phase (deg)	-117.8	Apriori accel (us/s/s)	8.43536021117E-05	Resid phase (deg)	-89.9	+/-	13.8

ph/seg (deg)	RMS 95.4	Theor. 117.8	Amplitude Search (2048X8)	1.500 +/- 0.180	1.135	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	88.9	205.6	Interp.	0.000	1.487	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.701		Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.0	Inc. frq. avg.	1.487		Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

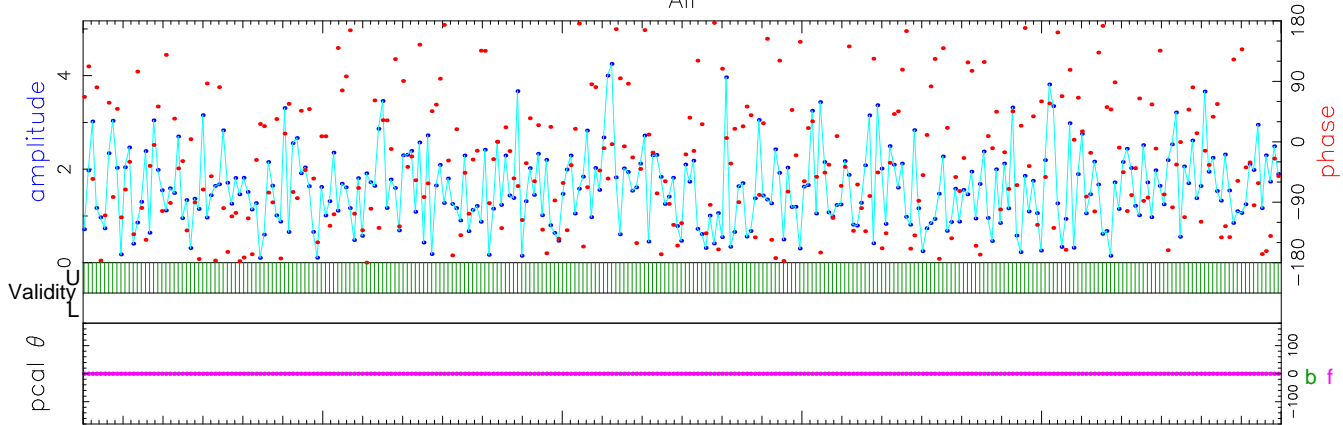
B: az 297.1 el 22.7 pa 43.3 f: az 69.7 el 76.5 pa -101.8 u,v (fr/asec) 7658.468 6402.001 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Bf..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Bf.W.14.1T5GV4

Fringe quality 8



SNR 9.7
Int time 299.955
Amp 1.725
Phase 89.4
PFD 7.9e-15
Delays (us)
SBD -0.464228
MBD -0.000006
Fringe rate (Hz)
-0.752056
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051947
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-49.9
0.5
1514.7
U/L 586/0
b 0
f 0
b:f 0:0
b:f 0:0
b 1000
f 1000
b W03UL
f W03UL

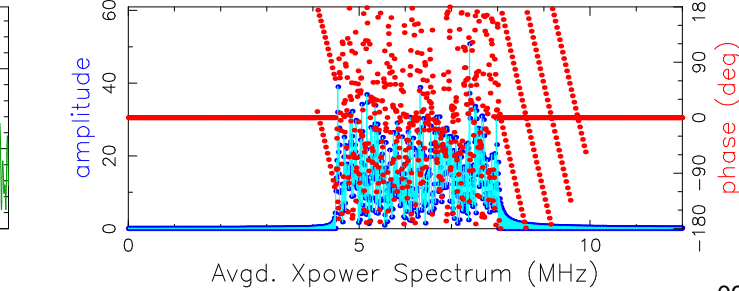
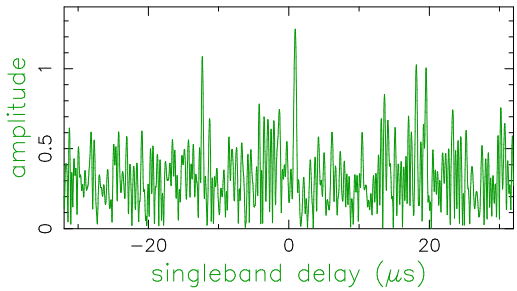
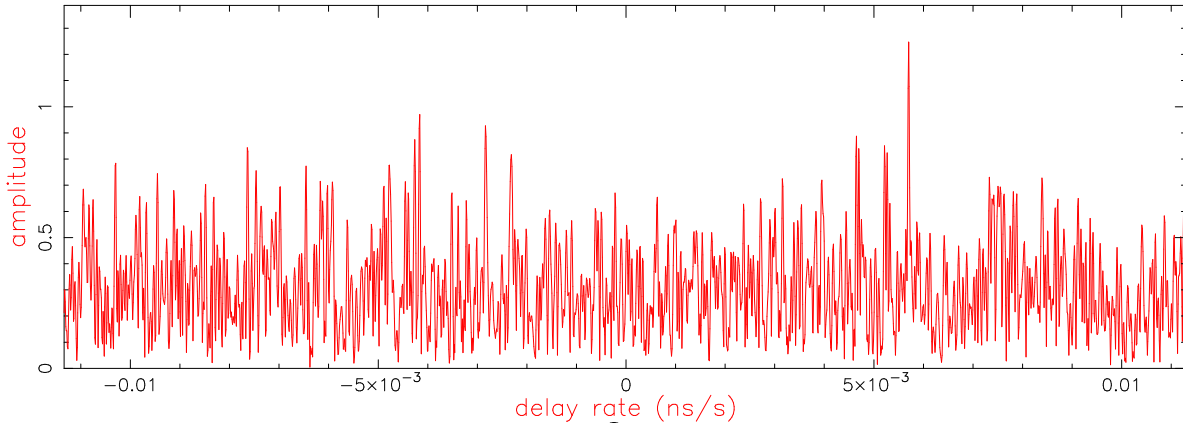
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.69371144093E+03	Apriori delay (usec)	-1.69324721809E+03	Resid mbdelay (usec)	-6.29854E-06	+/-	4.8E-03
Sband delay (usec)	-1.69371144609E+03	Apriori clock (usec)	-1.3251951E+01	Resid sbdelay (usec)	-4.64228E-01	+/-	4.8E-03
Phase delay (usec)	-1.69324721970E+03	Apriori clockrate (us/s)	-2.5000000E-07	Resid phdelay (usec)	-1.60903E-06	+/-	3.8E-07
Delay rate (us/s)	1.54824471625E-01	Apriori rate (us/s)	1.54833202244E-01	Resid rate (us/s)	-8.73062E-06	+/-	2.2E-09
Total phase (deg)	317.5	Apriori accel (us/s/s)	2.39194113384E-05	Resid phase (deg)	89.4	+/-	11.9

ph/seg (deg)	RMS 90.4	Theor. 101.4	Amplitude Search (2048X8)	1.725 +/- 0.178	1.293	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	65.2	177.0	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	5.9	Inc. seg. avg.	0.803	0.803	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	10.3	Inc. frq. avg.	1.714	1.714	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
							nlags: 1536 t_cohere infinite

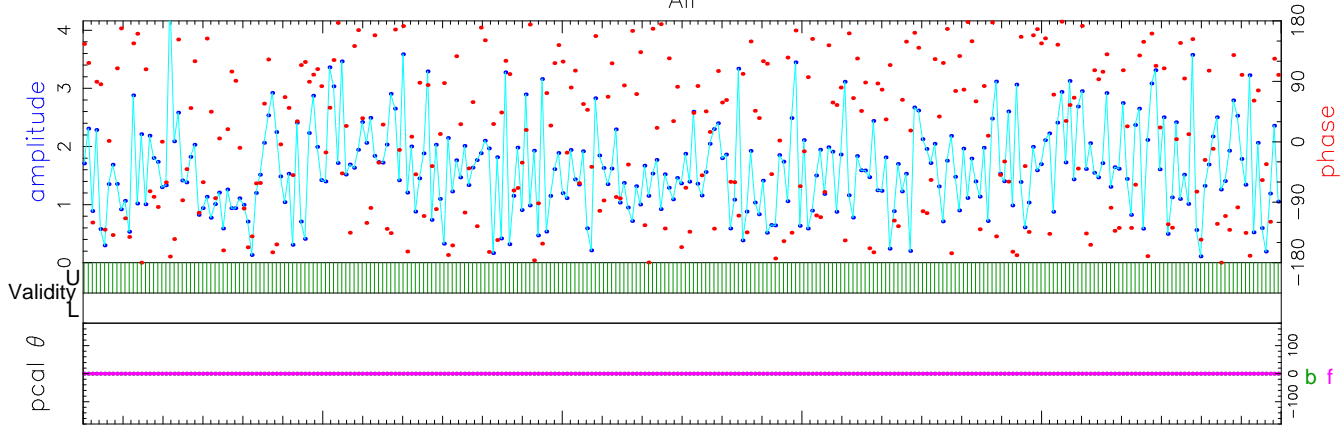
b: az 109.2 el 63.1 pa -50.1 f: az 69.7 el 76.5 pa -101.8 u,v (fr/asec) -1044.332 3012.909 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bf..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bf.W.16.1T5GV4

Fringe quality 8



SNR 9.0
Int time 299.955
Amp 1.387
Phase -22.6
PFD 2.7e-12
Delays (us)
SBD 0.913731
MBD 0.000006
Fringe rate (Hz)
0.491063
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051948
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
155.3
0.4
1580.9
U/L 586/0
b 0
f 0
b:f 0:0
b:f 0:0
b 1000
f 1000
b W03UR
f W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.69233348449E+03	Apriori delay (usec)	-1.69324721809E+03	Resid mbdelay (usec)	5.87723E-06	+/-	5.1E-03
Sband delay (usec)	-1.69233348742E+03	Apriori clock (usec)	-1.3251951E+01	Resid sbdelay (usec)	9.13731E-01	+/-	5.1E-03
Phase delay (usec)	-1.69324721308E+03	Apriori clockrate (us/s)	-2.5000000E-07	Resid phdelay (usec)	5.00896E-06	+/-	4.1E-07
Delay rate (us/s)	1.54838902998E-01	Apriori rate (us/s)	1.54833202244E-01	Resid rate (us/s)	5.70075E-06	+/-	2.4E-09
Total phase (deg)	-154.5	Apriori accel (us/s/s)	2.39194113384E-05	Resid phase (deg)	-22.6	+/-	12.7

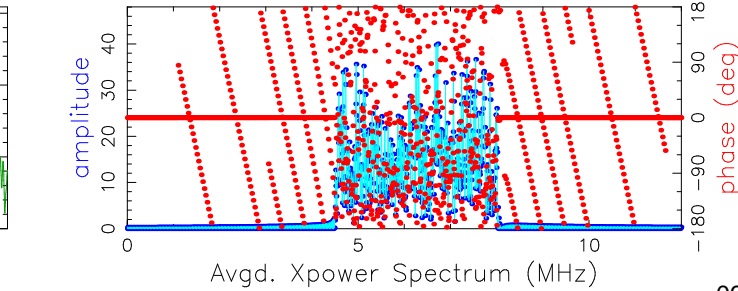
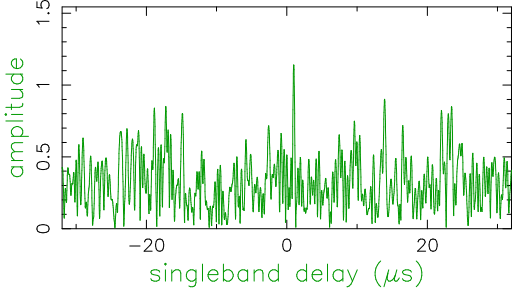
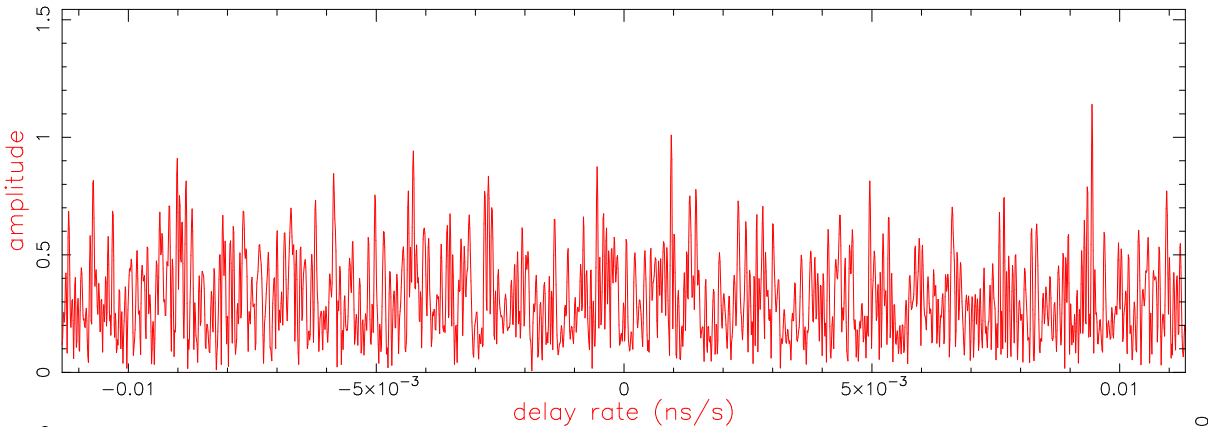
ph/seg (deg)	RMS 93.0	Theor. 108.4	Amplitude Search (2048X8)	1.387 +/- 0.153	1.242	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	69.4	189.2	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.3	Inc. seg. avg.	0.649	0.649	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.1	Inc. frq. avg.	1.379	1.379	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

b: az 109.2 el 63.1 pa -50.1 f: az 69.7 el 76.5 pa -101.8 u,v (fr/asec) -1044.332 3012.909 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bf..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bf.W.22.1T5GV4

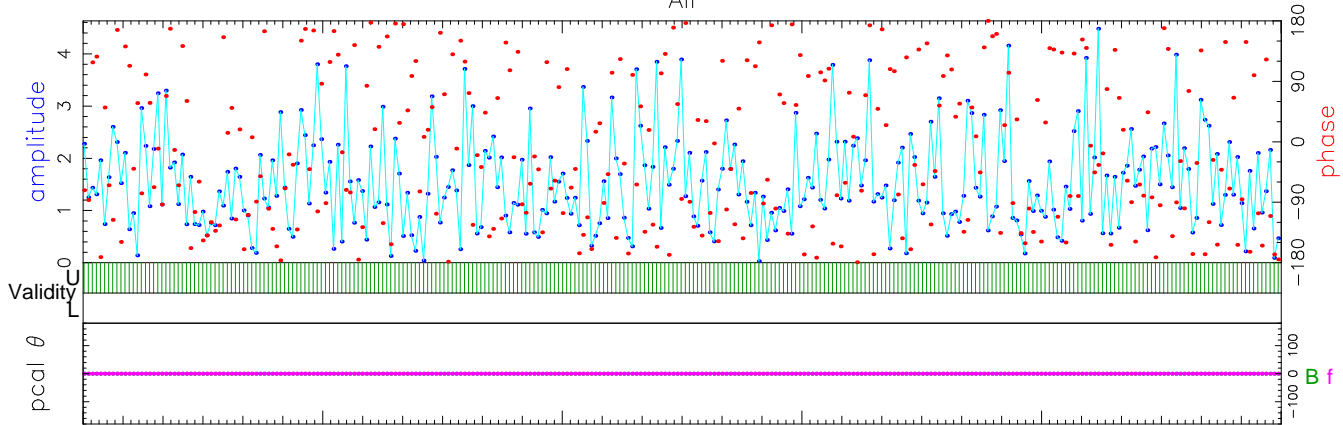
Fringe quality 8

SNR 8.3
Int time 299.972
Amp 1.544
Phase -48.9
PFD 2.2e-09
Delays (us)
SBD 0.985471
MBD 0.000007
Fringe rate (Hz)
0.812371
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051949
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-144.1
0.5
1584.3
U/L 586/0
B 0
f 0
B:f 0:0
B:f 0:0
B 1000
f 1000
B W03UR
f W03UR

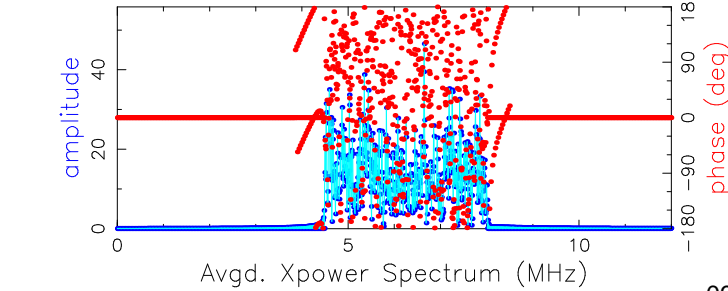
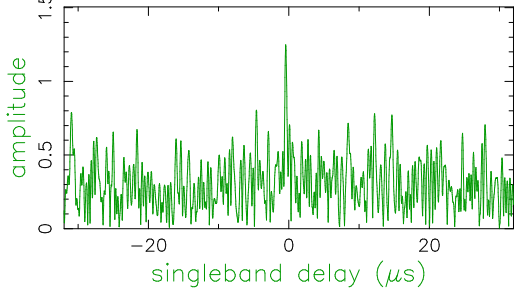
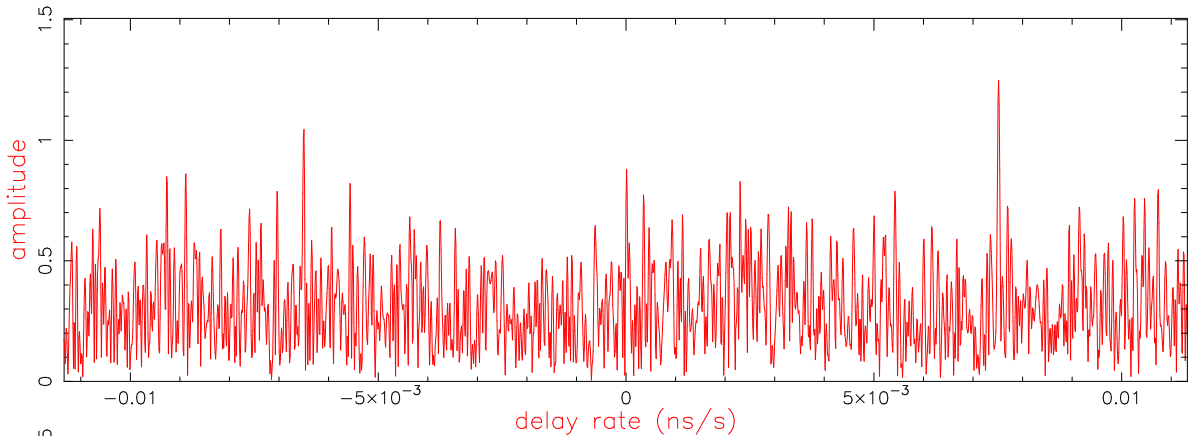
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.27492714212E+04	Apriori delay (usec)	-1.27502568966E+04	Resid mbdelay (usec)	6.84853E-06	+/-	5.6E-03
Sband delay (usec)	-1.27492714260E+04	Apriori clock (usec)	-3.2329170E+01	Resid sbdelay (usec)	9.85471E-01	+/-	5.6E-03
Phase delay (usec)	-1.27502569013E+04	Apriori clockrate (us/s)	-1.4999999E-07	Resid phdelay (usec)	-4.64540E-06	+/-	4.5E-07
Delay rate (us/s)	-1.08683792949E+00	Apriori rate (us/s)	-1.08684736032E+00	Resid rate (us/s)	9.43083E-06	+/-	2.6E-09
Total phase (deg)	-76.8	Apriori accel (us/s/s)	8.43536021117E-05	Resid phase (deg)	-48.9	+/-	13.9

ph/seg (deg)	RMS 93.1	Theor. 118.6	Amplitude Search (2048X8)	1.544 +/- 0.187	1.123	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	86.3	206.9	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.667	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.1	Inc. frq. avg.	1.532	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

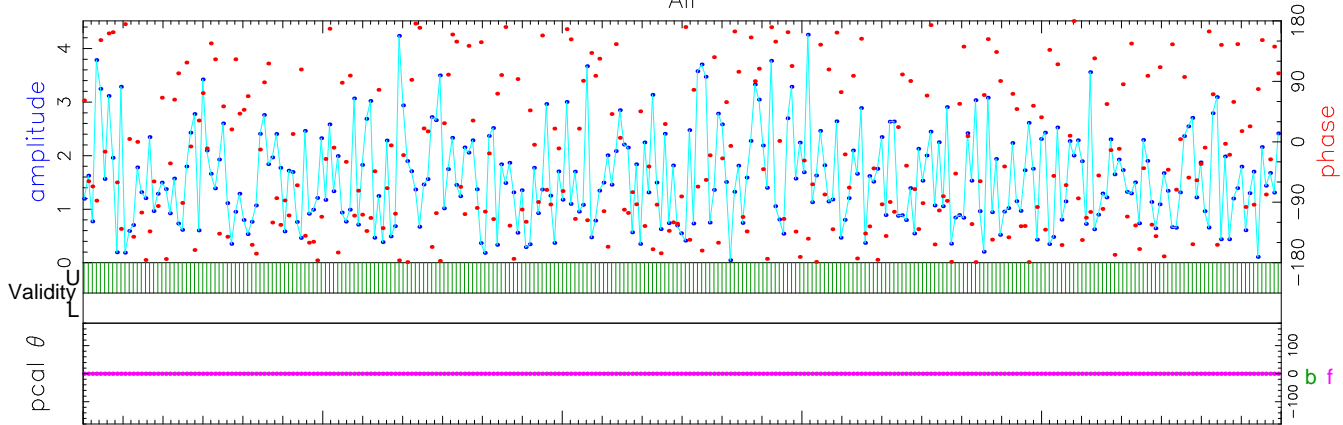
B: az 297.1 el 22.7 pa 43.3 f: az 69.7 el 76.5 pa -101.8 u,v (fr/asec) 7658.468 6402.001 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Bf..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Bf.W.31.1T5GV4

Fringe quality 8



SNR 9.1
Int time 299.955
Amp 1.506
Phase 339.3
PFD 2.5e-12
Delays (us)
SBD -0.440608
MBD 0.000007
Fringe rate (Hz)
0.646749
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051950
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-140.8
0.4
1515.9
U/L 586/0
b 0
f 0
b:f 0:0
b:f 0:0
b 1000
f 1000
b W03UL
f W03UR

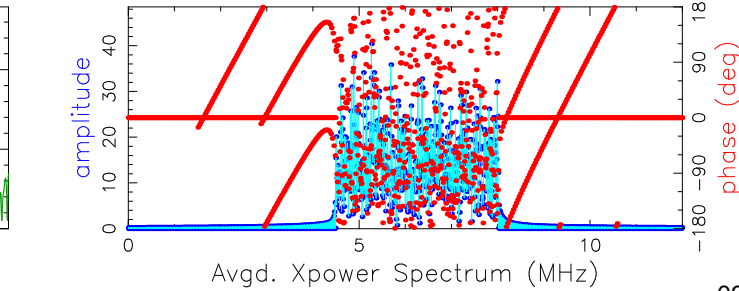
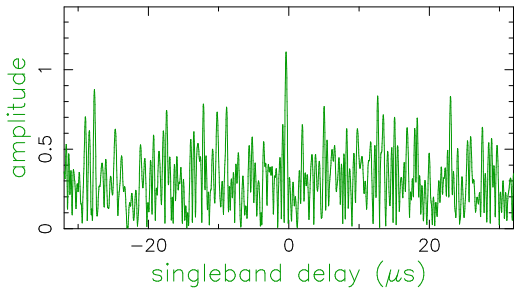
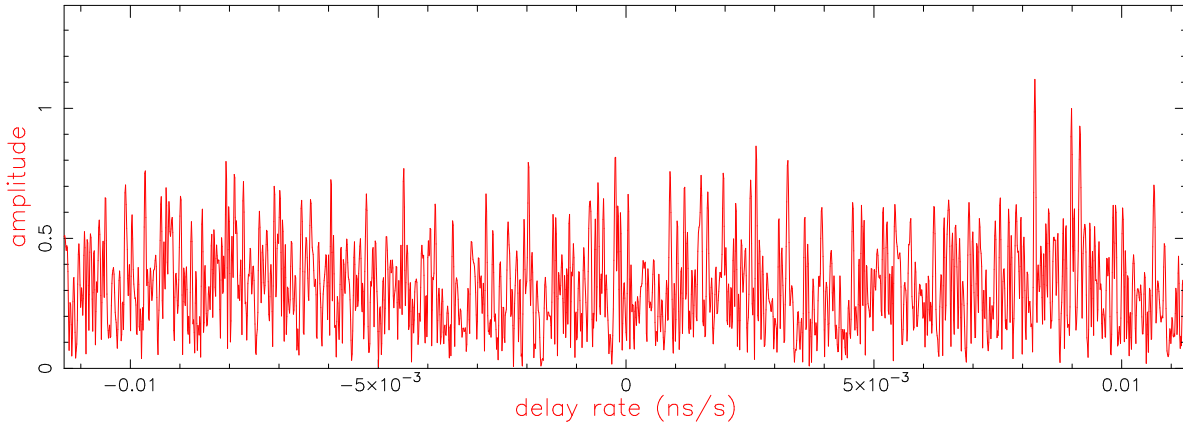
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.69368782743E+03	Apriori delay (usec)	-1.69324721809E+03	Resid mbdelay (usec)	6.71001E-06	+/-	5.1E-03
Sband delay (usec)	-1.69368782609E+03	Apriori clock (usec)	-1.3251951E+01	Resid sbdelay (usec)	-4.40608E-01	+/-	5.1E-03
Phase delay (usec)	-1.69324722263E+03	Apriori clockrate (us/s)	-2.5000000E-07	Resid phdelay (usec)	-4.53905E-06	+/-	4.1E-07
Delay rate (us/s)	1.54840710355E-01	Apriori rate (us/s)	1.54833202244E-01	Resid rate (us/s)	7.50811E-06	+/-	2.4E-09
Total phase (deg)	207.5	Apriori accel (us/s/s)	2.39194113384E-05	Resid phase (deg)	339.3	+/-	12.7

ph/seg (deg)	RMS 92.8	Theor. 108.3	Amplitude Search (2048X8)	1.506 +/- 0.166	1.240	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	76.0	189.1	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.3	Inc. seg. avg.	0.694	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.0	Inc. frq. avg.	1.496	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

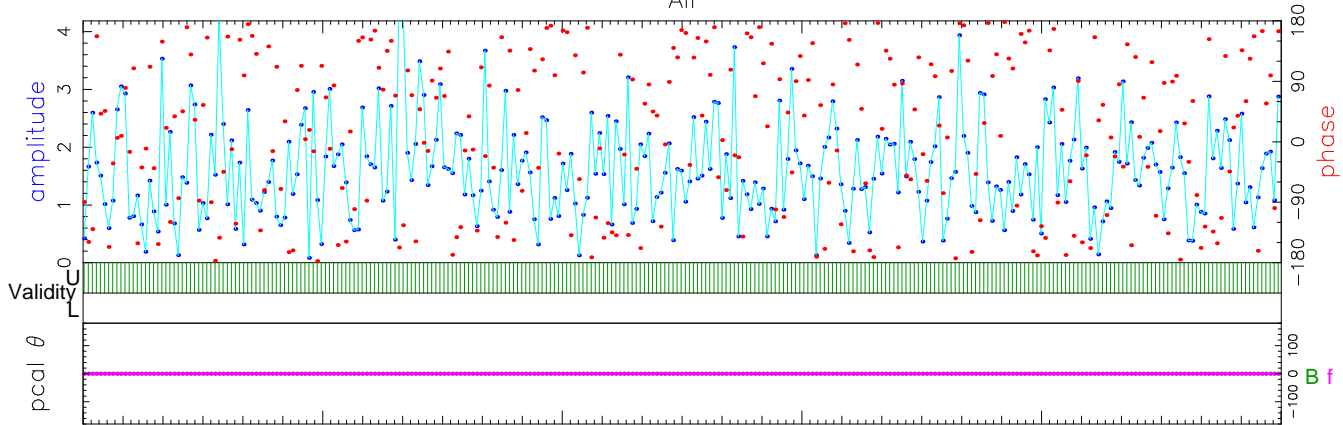
b: az 109.2 el 63.1 pa -50.1 f: az 69.7 el 76.5 pa -101.8 u,v (fr/asec) -1044.332 3012.909 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bf..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bf.W.41.1T5GV4

Fringe quality 8



SNR 8.1
Int time 299.972
Amp 1.396
Phase 194.5
PFD 1.3e-08
Delays (us)
SBD -0.392445
MBD 0.000005
Fringe rate (Hz)
0.710173
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051951
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
142.9
0.4
1518.2
U/L 586/0
B 0
f 0
B:f 0:0
B:f 0:0
B 1000
f 1000
B W03UL
f W03UR

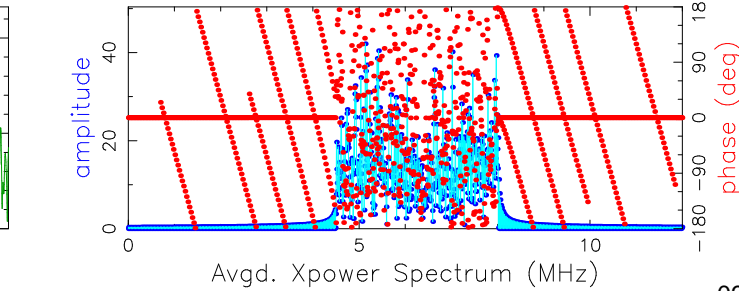
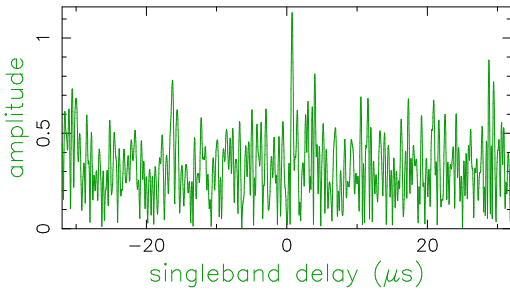
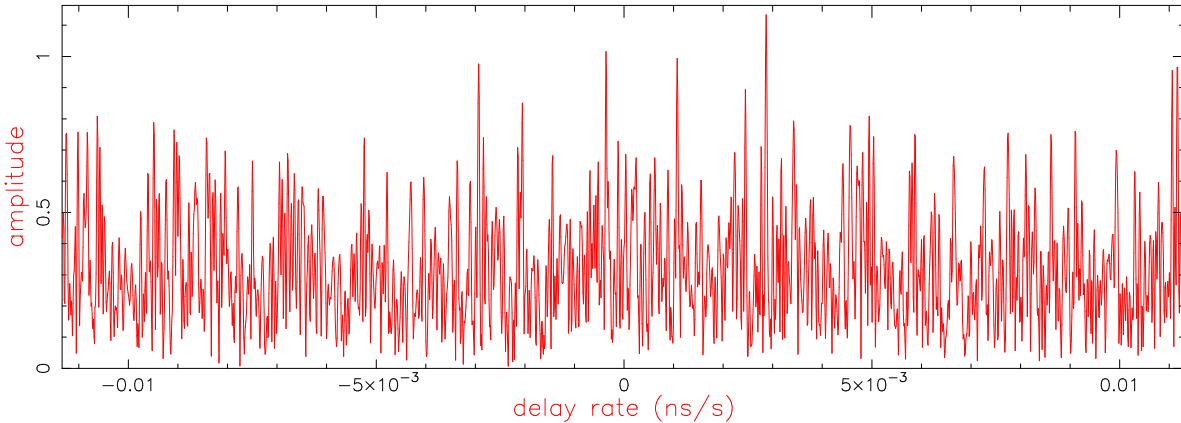
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.27506493444E+04	Apriori delay (usec)	-1.27502568966E+04	Resid mbdelay (usec)	4.70897E-06	+/-	5.7E-03
Sband delay (usec)	-1.27506493420E+04	Apriori clock (usec)	-3.2329170E+01	Resid sbdelay (usec)	-3.92445E-01	+/-	5.7E-03
Phase delay (usec)	-1.27502568920E+04	Apriori clockrate (us/s)	-1.4999999E-07	Resid phdelay (usec)	4.60844E-06	+/-	4.6E-07
Delay rate (us/s)	-1.08683911592E+00	Apriori rate (us/s)	-1.08684736032E+00	Resid rate (us/s)	8.24440E-06	+/-	2.6E-09
Total phase (deg)	166.7	Apriori accel (us/s/s)	8.43536021117E-05	Resid phase (deg)	194.5	+/-	14.2

ph/seg (deg)	RMS 93.1	Theor. 121.7	Amplitude Search (2048X8)	1.396 +/- 0.173	1.098	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	87.6	212.4	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.1	Inc. seg. avg.	0.619	0.619	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.4	Inc. frq. avg.	1.385	1.385	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

B: az 297.1 el 22.7 pa 43.3 f: az 69.7 el 76.5 pa -101.8 u,v (fr/asec) 7658.468 6402.001 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Bf..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Bf.W.51.1T5GV4

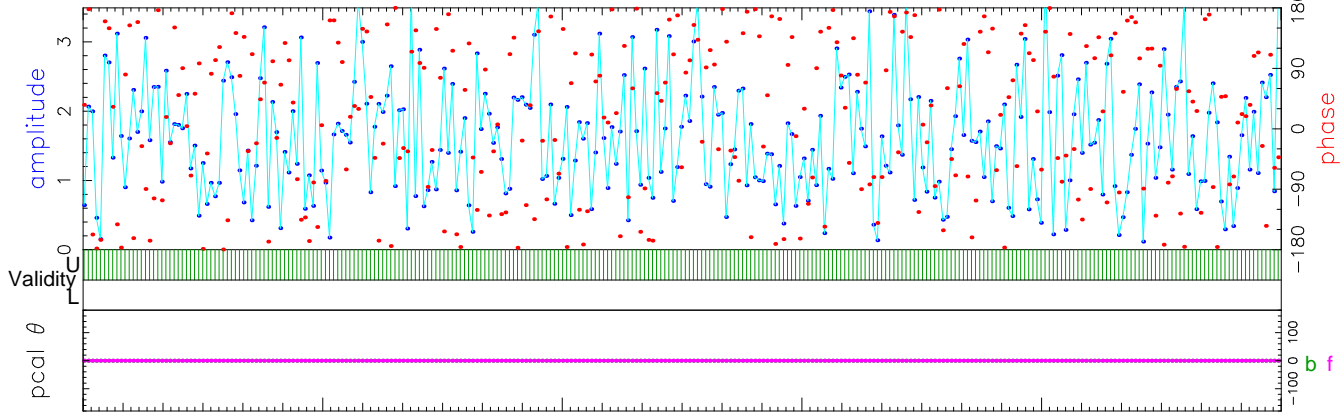
Fringe quality 8



SNR 8.2
Int time 299.955
Amp 1.164
Phase -5.3
PFD 3.4e-09
Delays (us)
SBD 0.752135
MBD 0.000007
Fringe rate (Hz)
0.246317
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051952
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86227.00
151.5
0.3
1573.1
U/L 586/0
b 0
f 0
b:f 0:0
b:f 0:0
b 1000
f 1000
b W03UR
f W03UL

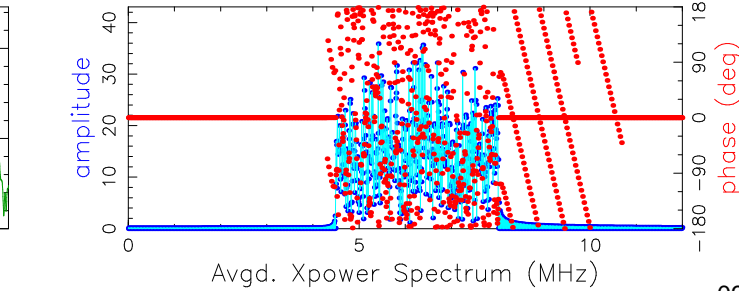
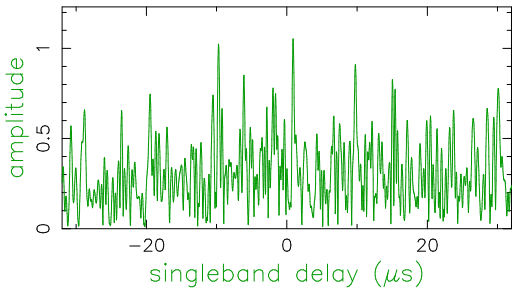
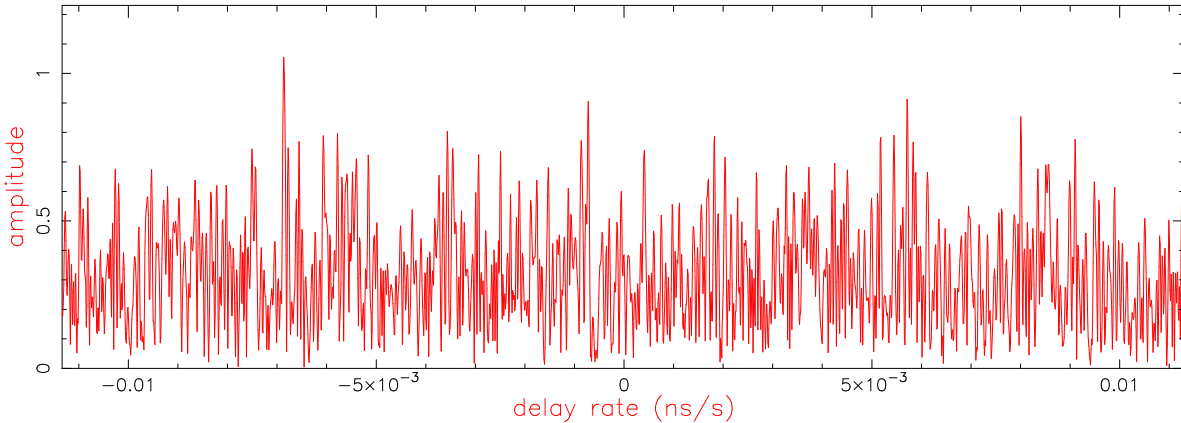
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.69249507985E+03	Apriori delay (usec)	-1.69324721809E+03	Resid mbdelay (usec)	7.23398E-06	+/-	5.6E-03
Sband delay (usec)	-1.69249508342E+03	Apriori clock (usec)	-1.3251951E+01	Resid sbdelay (usec)	7.52135E-01	+/-	5.6E-03
Phase delay (usec)	-1.69324721321E+03	Apriori clockrate (us/s)	-2.5000000E-07	Resid phdelay (usec)	4.88412E-06	+/-	4.5E-07
Delay rate (us/s)	1.54836061742E-01	Apriori rate (us/s)	1.54833202244E-01	Resid rate (us/s)	2.85950E-06	+/-	2.6E-09
Total phase (deg)	-137.2	Apriori accel (us/s/s)	2.39194113384E-05	Resid phase (deg)	-5.3	+/-	13.9

ph/seg (deg)	RMS 94.2	Theor. 119.3	Amplitude Search (2048X8)	1.121	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	85.9	208.3	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	7.0	Inc. seg. avg.	0.527	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	12.2	Inc. frq. avg.	1.155	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

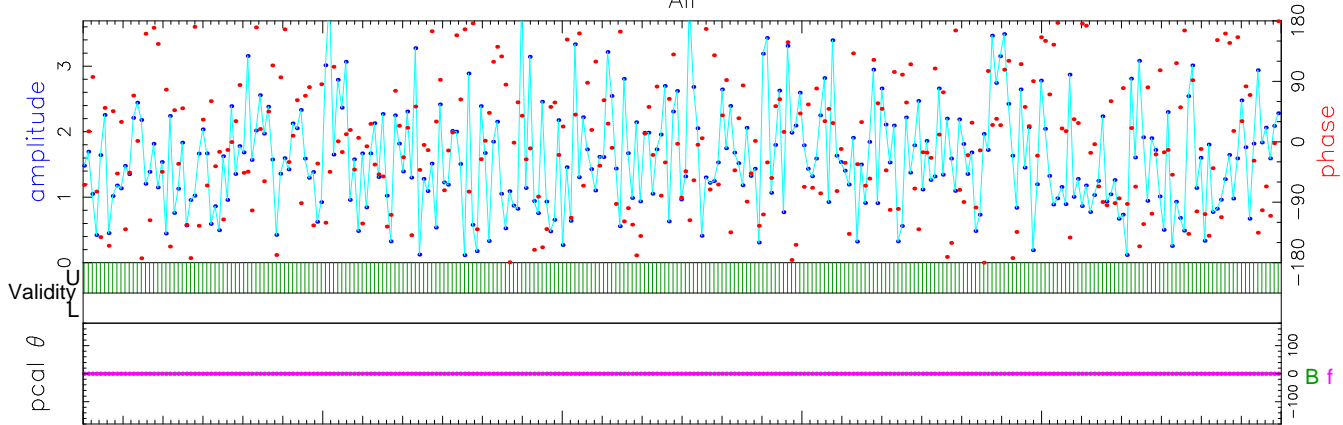
b: az 109.2 el 63.1 pa -50.1 f: az 69.7 el 76.5 pa -101.8 u,v (fr/asec) -1044.332 3012.909 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bf..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bf.W.61.1T5GV4

Fringe quality 8



SNR 7.6
Int time 299.972
Amp 1.231
Phase -324.6
PFD 3.3e-07
Delays (us)
SBD 0.895292
MBD -0.000007
Fringe rate (Hz)
-0.590458
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051953
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-3.8
0.4
1580.0
U/L 586/0
B 0
f 0
B:f 0:0
B:f 0:0
B 1000
f 1000
B W03UR
f W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.27493616036E+04	Apriori delay (usec)	-1.27502568966E+04	Resid mbdelay (usec)	-6.58726E-06	+/-	6.0E-03
Sband delay (usec)	-1.27493616046E+04	Apriori clock (usec)	-3.2329170E+01	Resid sbdelay (usec)	8.95292E-01	+/-	6.0E-03
Phase delay (usec)	-1.27502568968E+04	Apriori clockrate (us/s)	-1.4999999E-07	Resid phdelay (usec)	-1.23027E-07	+/-	4.8E-07
Delay rate (us/s)	-1.08685421495E+00	Apriori rate (us/s)	-1.08684736032E+00	Resid rate (us/s)	-6.85463E-06	+/-	2.8E-09
Total phase (deg)	-352.5	Apriori accel (us/s/s)	8.43536021117E-05	Resid phase (deg)	-324.6	+/-	15.0

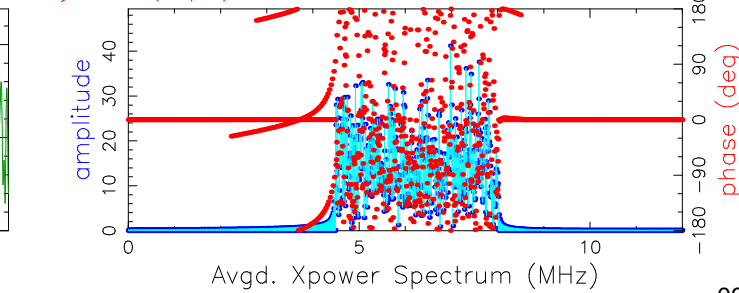
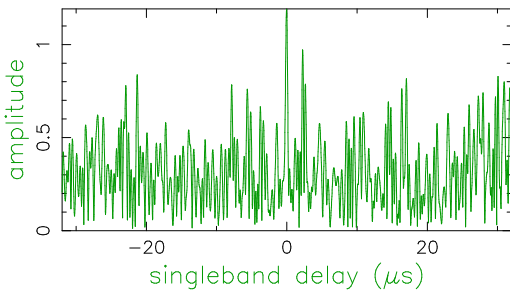
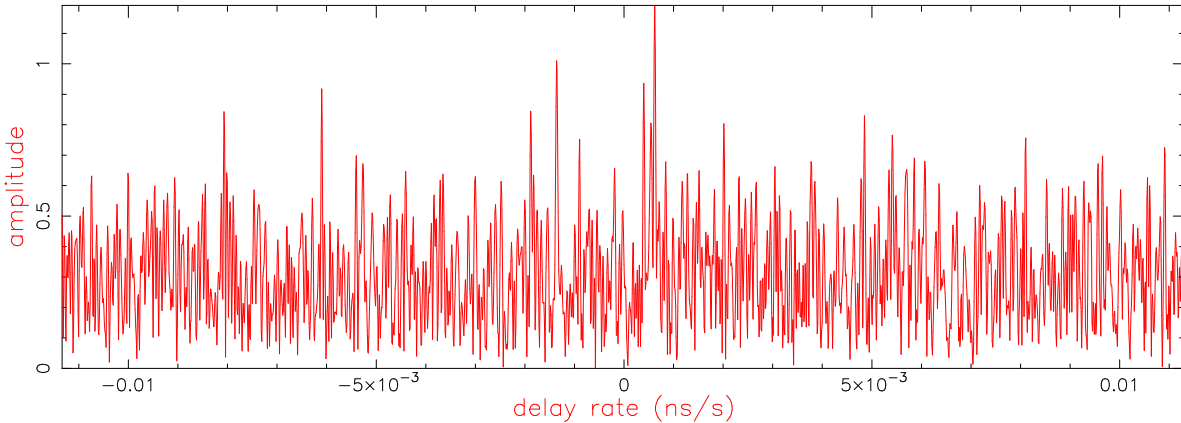
ph/seg (deg)	RMS 93.7	Theor. 128.3	Amplitude 1.231 +/- 0.161	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	92.7	224.0	Search (2048X8) 1.048	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.5	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	13.1	Inc. seg. avg. 0.535	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.220	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				nlags: 1536 t_cohere infinite	

B: az 297.1 el 22.7 pa 43.3 f: az 69.7 el 76.5 pa -101.8 u,v (fr/asec) 7658.468 6402.001 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Bf..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Bf.W.65.1T5GV4

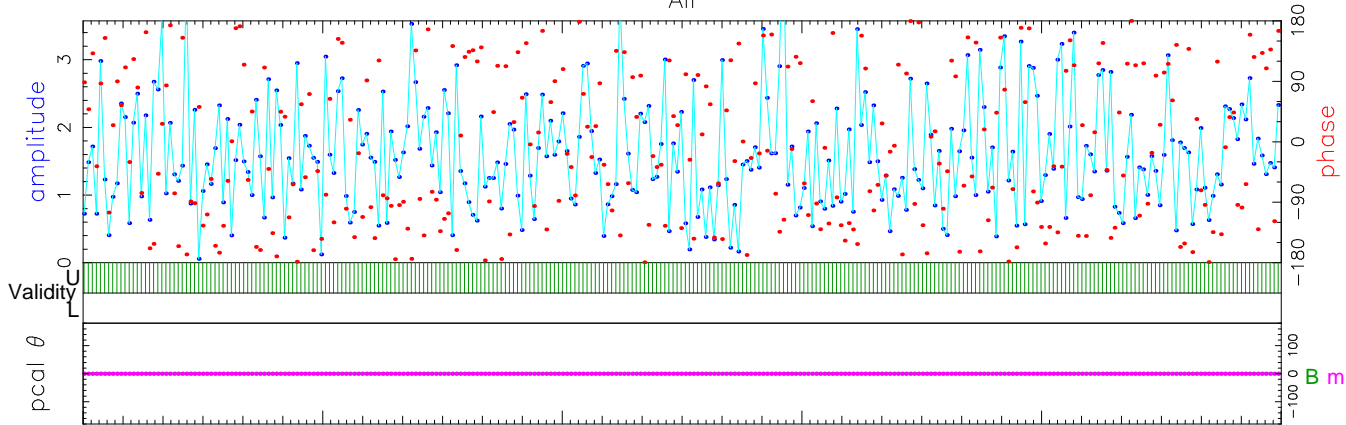
Fringe quality 8

SNR 8.6
Int time 299.972
Amp 1.192
Phase 215.1
PFD 1.1e-10
Delays (us)
SBD -0.034808
MBD 0.000007
Fringe rate (Hz)
0.053626
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051947
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-155.3
0.3
1535.3
U/L 586/0
B 0
m 0
B:m 0:0
B:m 0:0
B 1000
m 1000
B W03UL
m W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.79175204642E+03	Apriori delay (usec)	-2.79171723820E+03	Resid mbdelay (usec)	6.85836E-06	+/-	5.3E-03
Sband delay (usec)	-2.79175204620E+03	Apriori clock (usec)	-3.7785000E+01	Resid sbdelay (usec)	-3.48080E-02	+/-	5.3E-03
Phase delay (usec)	-2.79171724321E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.00815E-06	+/-	4.3E-07
Delay rate (us/s)	-1.91181362648E+00	Apriori rate (us/s)	-1.91181424902E+00	Resid rate (us/s)	6.22544E-07	+/-	2.5E-09
Total phase (deg)	251.6	Apriori accel (us/s/s)	4.22342409703E-05	Resid phase (deg)	215.1	+/-	13.3

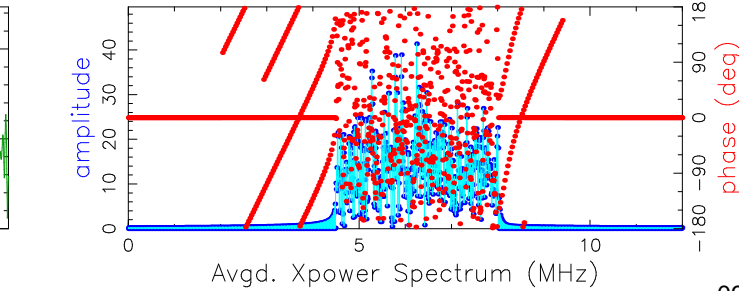
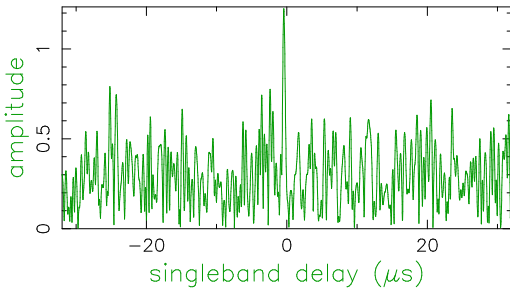
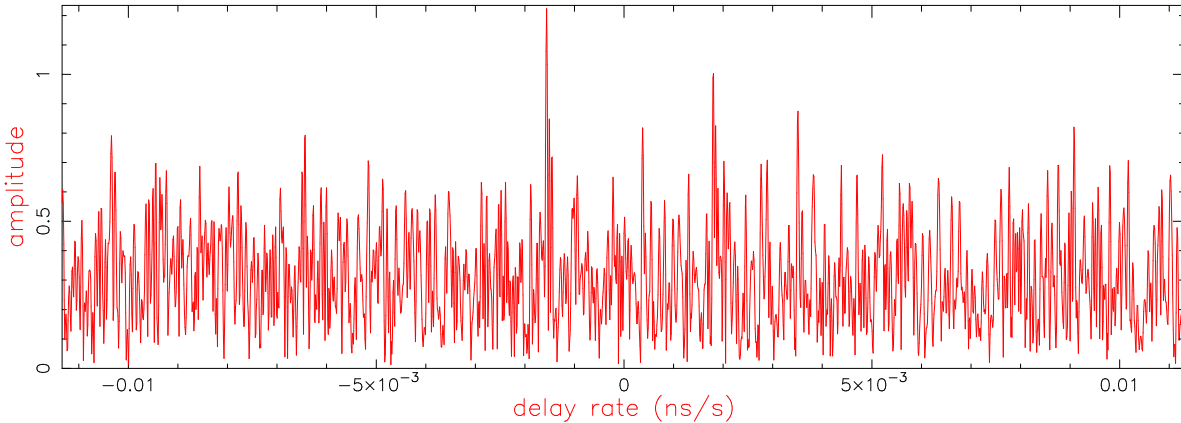
ph/seg (deg)	RMS 94.4	Theor. 113.6	Amplitude Search (2048X8)	1.192 +/- 0.138	1.175	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.4	198.3	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.544	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.6	Inc. frq. avg.	1.183	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

B: az 297.1 el 22.7 pa 43.3 m: az 60.9 el 29.7 pa -85.7 u,v (fr/asec) 13325.730 5339.270 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Bm..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Bm.W.10.1T5GV4

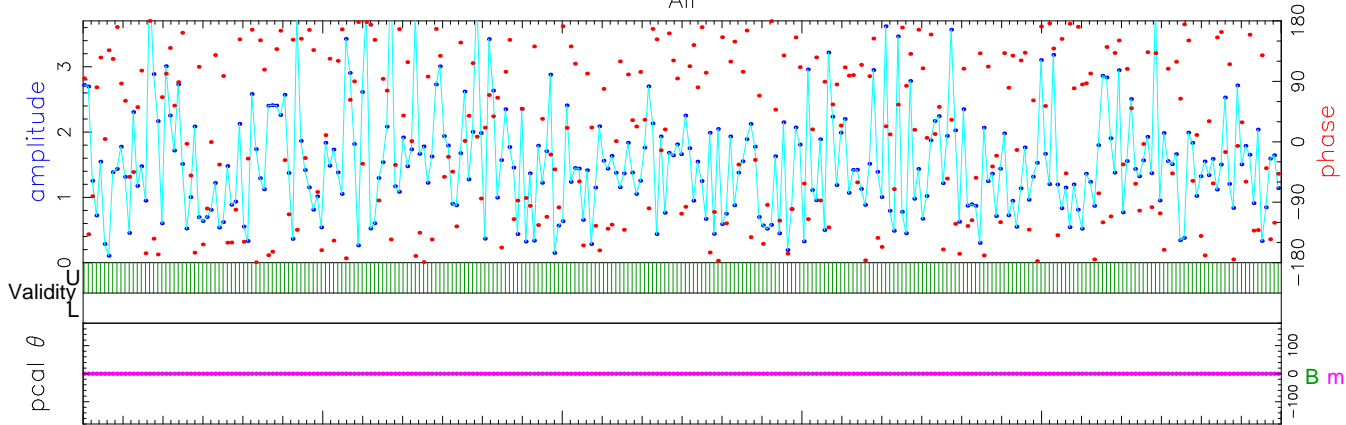
Fringe quality 8

SNR 8.9
Int time 299.972
Amp 1.234
Phase 241.5
PFD 1.2e-11
Delays (us)
SBD -0.428169
MBD -0.000006
Fringe rate (Hz)
-0.134382
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051949
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
151.5
0.4
1516.5
U/L 586/0
B 0
m 0
B:m 0:0
B:m 0:0
B 1000
m 1000
B W03UR
m W03UR

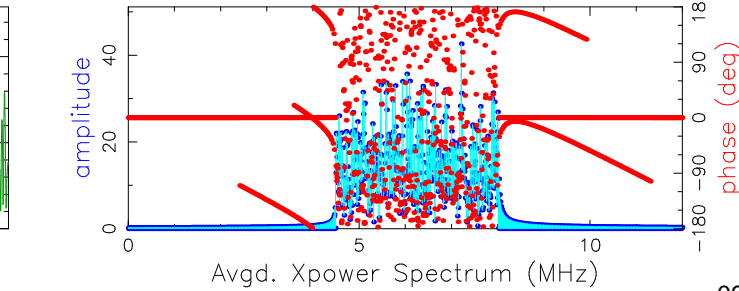
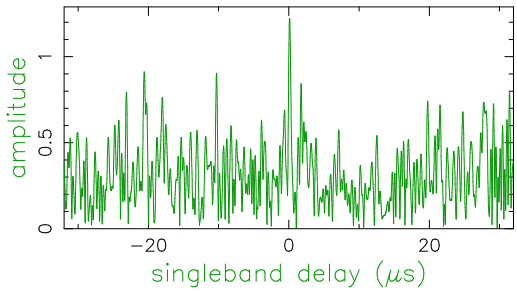
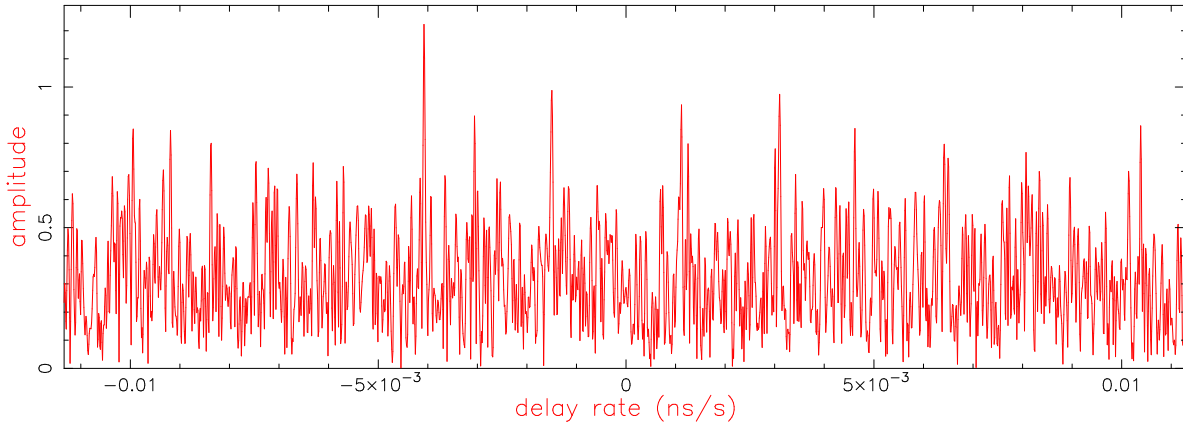
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.79214540476E+03	Apriori delay (usec)	-2.79171723820E+03	Resid mbdelay (usec)	-6.00137E-06	+/-	5.2E-03
Sband delay (usec)	-2.79214540753E+03	Apriori clock (usec)	-3.7785000E+01	Resid sbdelay (usec)	-4.28169E-01	+/-	5.2E-03
Phase delay (usec)	-2.79171723331E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.88640E-06	+/-	4.2E-07
Delay rate (us/s)	-1.91181580906E+00	Apriori rate (us/s)	-1.91181424902E+00	Resid rate (us/s)	-1.56004E-06	+/-	2.4E-09
Total phase (deg)	278.0	Apriori accel (us/s/s)	4.22342409703E-05	Resid phase (deg)	241.5	+/-	12.9

ph/seg (deg)	RMS 90.9	Theor. 110.4	Amplitude Search (2048X8)	1.234 +/- 0.139	1.215	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.1	192.7	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Inc. seg. avg.	0.543	Sample rate(MISamp/s): 24	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	11.3	Inc. frq. avg.	1.225	Data rate(Mb/s): 48	dr window (ns/s)	-0.011 0.011
					nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

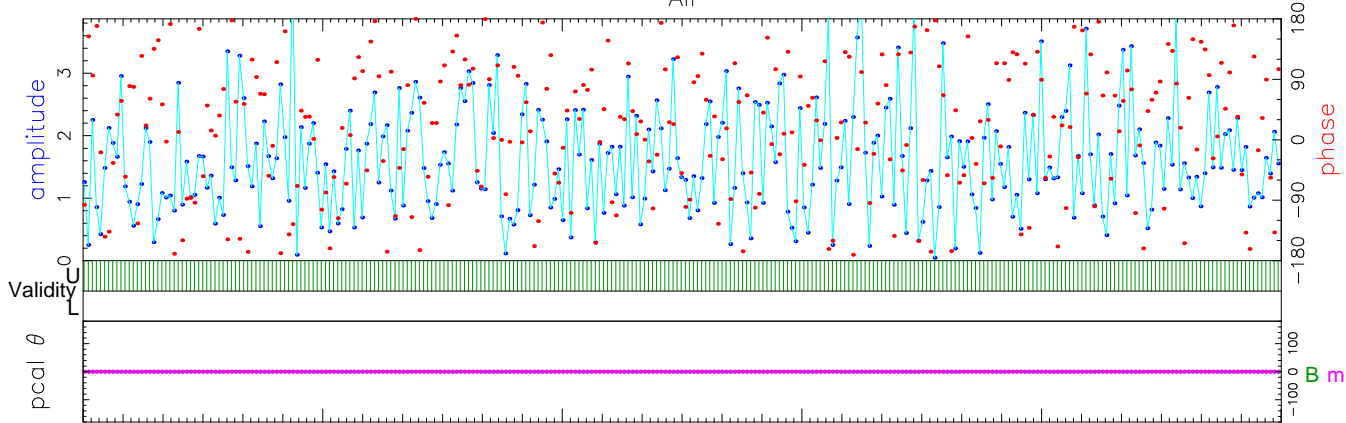
B: az 297.1 el 22.7 pa 43.3 m: az 60.9 el 29.7 pa -85.7 u,v (fr/asec) 13325.730 5339.270 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Bm..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Bm.W.30.1T5GV4

Fringe quality 8



SNR 8.9
Int time 299.972
Amp 1.290
Phase -112.9
PFD 1.3e-11
Delays (us)
SBD 0.109169
MBD -0.000004
Fringe rate (Hz)
-0.350694
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051950
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



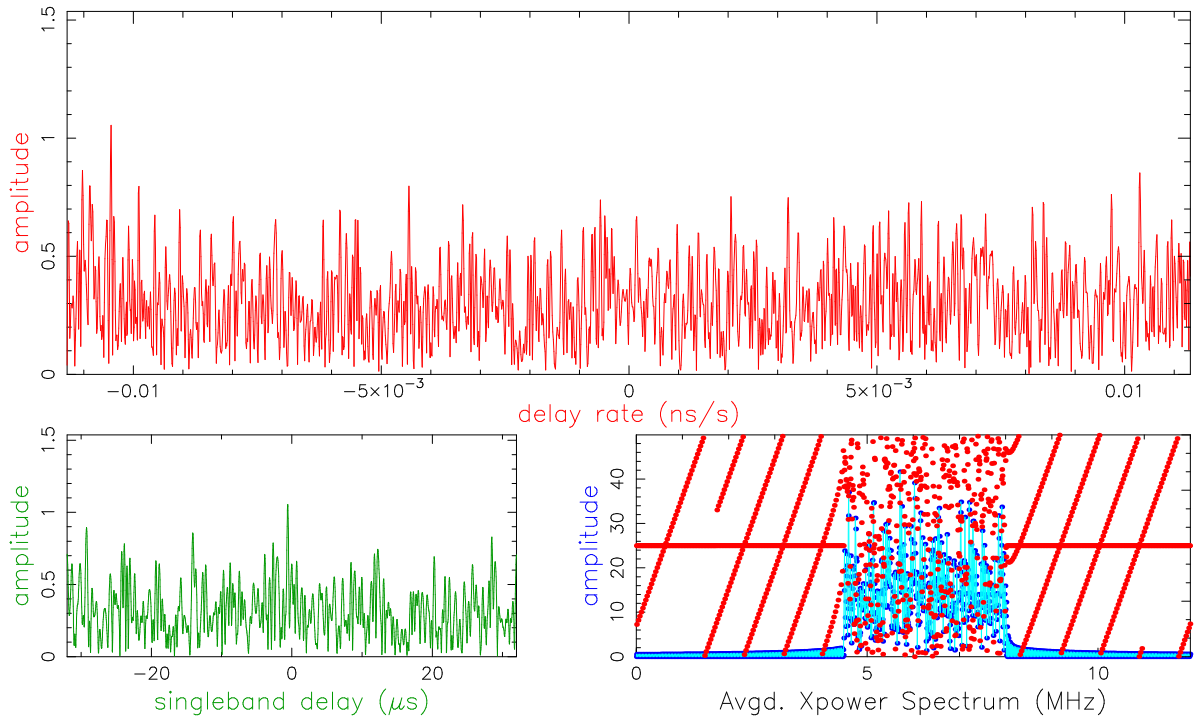
86227.00
66.5
0.4
1542.2
U/L 586/0
B 0
m 0
B:m 0:0
B:m 0:0
B 1000
m 1000
B W03UL
m W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.79160806562E+03	Apriori delay (usec)	-2.79171723820E+03	Resid mbdelay (usec)	-4.36348E-06	+/-	5.2E-03
Sband delay (usec)	-2.79160806887E+03	Apriori clock (usec)	-3.7785000E+01	Resid sbdelay (usec)	1.09169E-01	+/-	5.2E-03
Phase delay (usec)	-2.79171723605E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.14592E-06	+/-	4.2E-07
Delay rate (us/s)	-1.91181832023E+00	Apriori rate (us/s)	-1.91181424902E+00	Resid rate (us/s)	-4.07121E-06	+/-	2.4E-09
Total phase (deg)	-76.4	Apriori accel (us/s/s)	4.22342409703E-05	Resid phase (deg)	-112.9	+/-	12.9

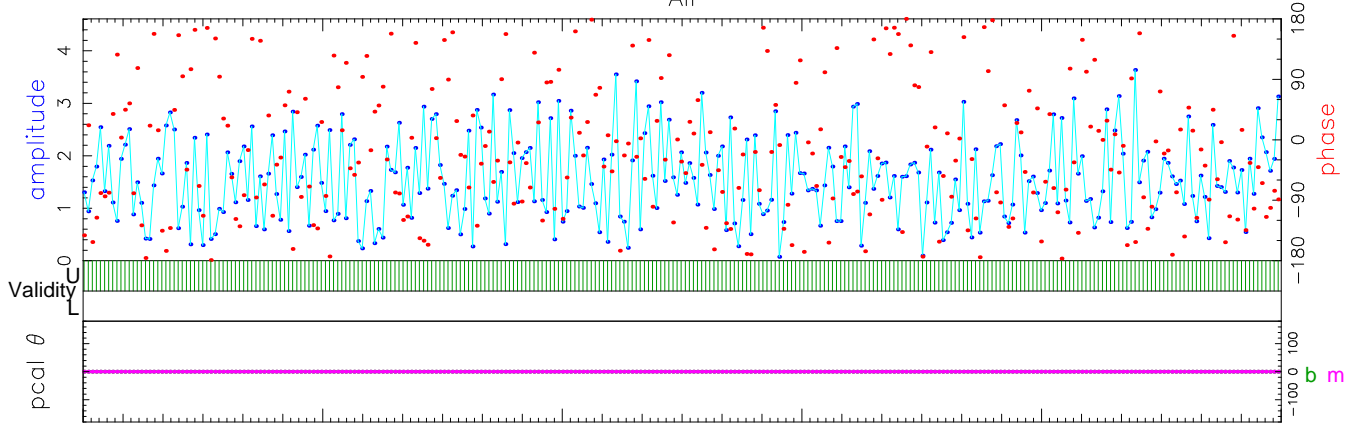
ph/seg (deg)	RMS 92.5	Theor. 110.6	Amplitude Search (2048X8)	1.290 +/- 0.146	1.201	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.6	193.1	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Inc. seg. avg.	0.595	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.3	Inc. frq. avg.	1.282	0.000	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

B: az 297.1 el 22.7 pa 43.3 m: az 60.9 el 29.7 pa -85.7 u,v (fr/asec) 13325.730 5339.270 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Bm..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Bm.W.42.1T5GV4



Fringe quality 8
SNR 7.6
Int time 299.957
Amp 1.537
Phase 241.9
PFD 3.2e-07
Delays (us)
SBD -0.584313
MBD -0.000006
Fringe rate (Hz)
-0.899226
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051950
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-58.6
0.5
1509.0
U/L 586/0
b 0
m 0
b:m 0:0
b:m 0:0
b 1000
m 1000
b W03UR
m W03UR

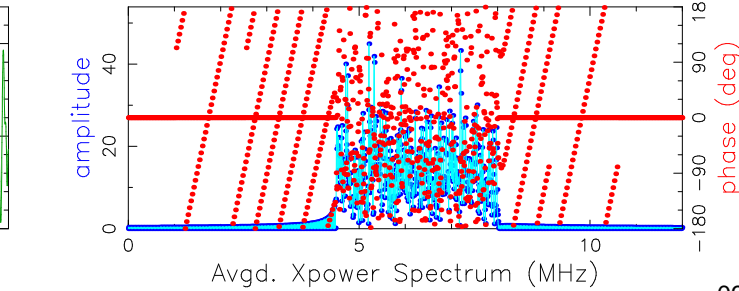
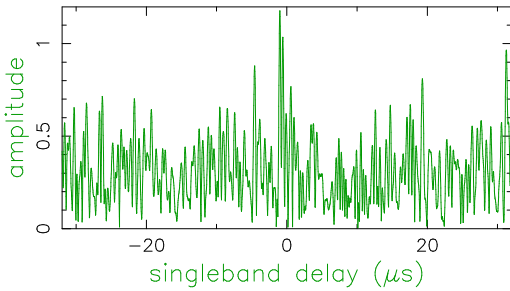
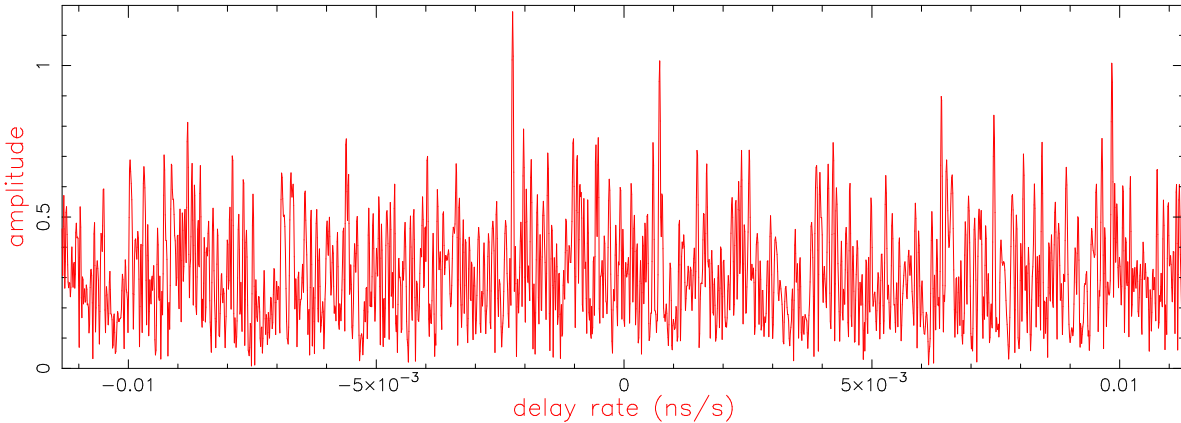
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	8.26470812784E+03	Apriori delay (usec)	8.26529244036E+03	Resid mbdelay (usec)	-5.98096E-06	+/-	6.0E-03
Sband delay (usec)	8.26470812702E+03	Apriori clock (usec)	-1.8707781E+01	Resid sbdelay (usec)	-5.84313E-01	+/-	6.0E-03
Phase delay (usec)	8.26529243847E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-1.88956E-06	+/-	4.8E-07
Delay rate (us/s)	-6.70144125583E-01	Apriori rate (us/s)	-6.70133686460E-01	Resid rate (us/s)	-1.04391E-05	+/-	2.8E-09
Total phase (deg)	174.4	Apriori accel (us/s/s)	-1.81999498030E-05	Resid phase (deg)	241.9	+/-	15.0

ph/seg (deg)	RMS 92.4	Theor. 128.3	Amplitude Search (2048X8)	1.537 +/- 0.201	1.046	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	88.3	223.9	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.5	Inc. seg. avg.	0.647	0.647	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	13.1	Inc. frq. avg.	1.524	1.524	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

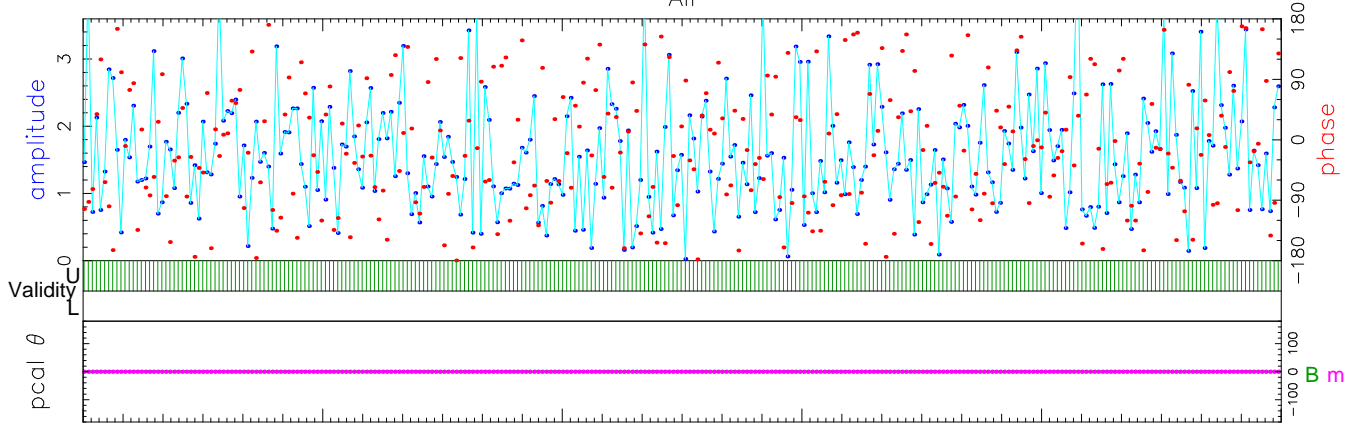
b: az 109.2 el 63.1 pa -50.1 m: az 60.9 el 29.7 pa -85.7 u,v (fr/asec) 4622.930 1950.178 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bm..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bm.W.43.1T5GV4

Fringe quality 8



SNR 8.6
Int time 299.972
Amp 1.199
Phase 101.4
PFD 2.1e-10
Delays (us)
SBD -0.992835
MBD -0.000007
Fringe rate (Hz)
-0.193863
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051951
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-34.1
0.4
1489.3
U/L 586/0
B 0
m 0
B:m 0:0
B:m 0:0
B 1000
m 1000
B W03UR
m W03UL

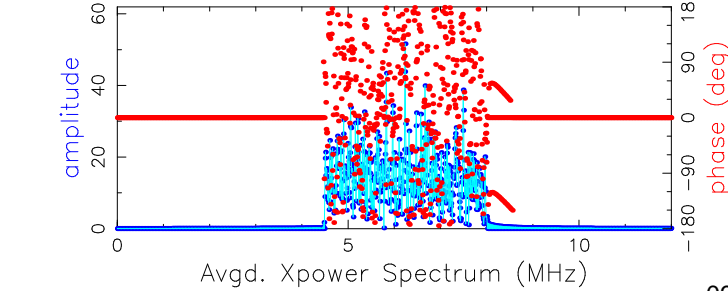
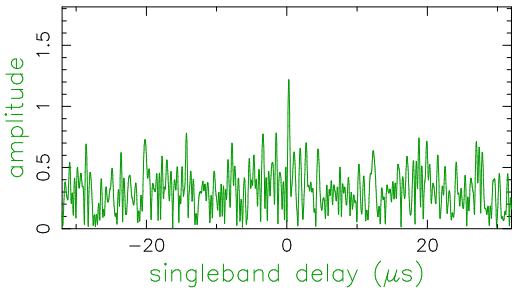
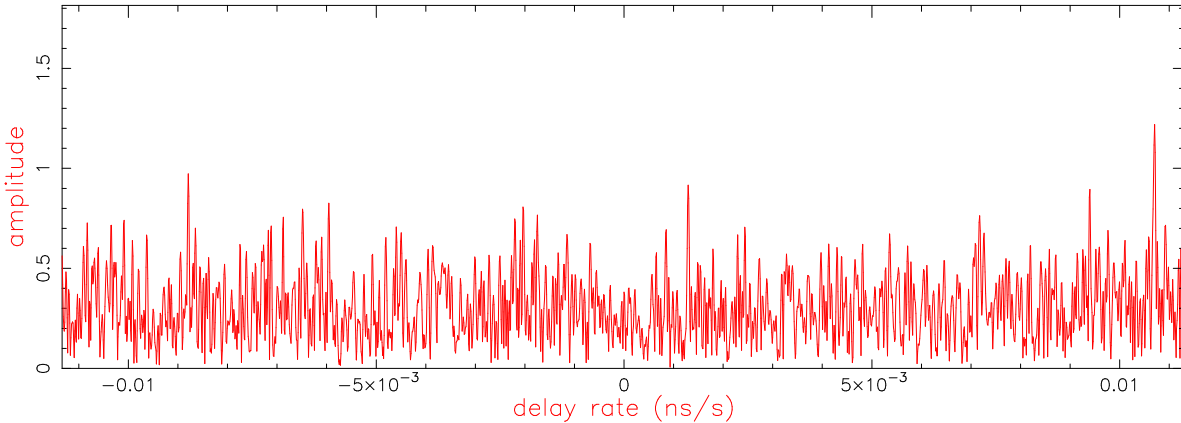
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.79271007788E+03	Apriori delay (usec)	-2.79171723820E+03	Resid mbdelay (usec)	-6.80706E-06	+/-	5.4E-03
Sband delay (usec)	-2.79271007287E+03	Apriori clock (usec)	-3.7785000E+01	Resid sbdelay (usec)	-9.92835E-01	+/-	5.4E-03
Phase delay (usec)	-2.79171723930E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.10002E-06	+/-	4.3E-07
Delay rate (us/s)	-1.91181649958E+00	Apriori rate (us/s)	-1.91181424902E+00	Resid rate (us/s)	-2.25056E-06	+/-	2.5E-09
Total phase (deg)	137.9	Apriori accel (us/s/s)	4.22342409703E-05	Resid phase (deg)	101.4	+/-	13.4

ph/seg (deg)	RMS 92.2	Theor. 114.7	Amplitude Search (2048X8)	1.163	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	80.2	200.1	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.541	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	11.7	Inc. frq. avg.	1.189	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

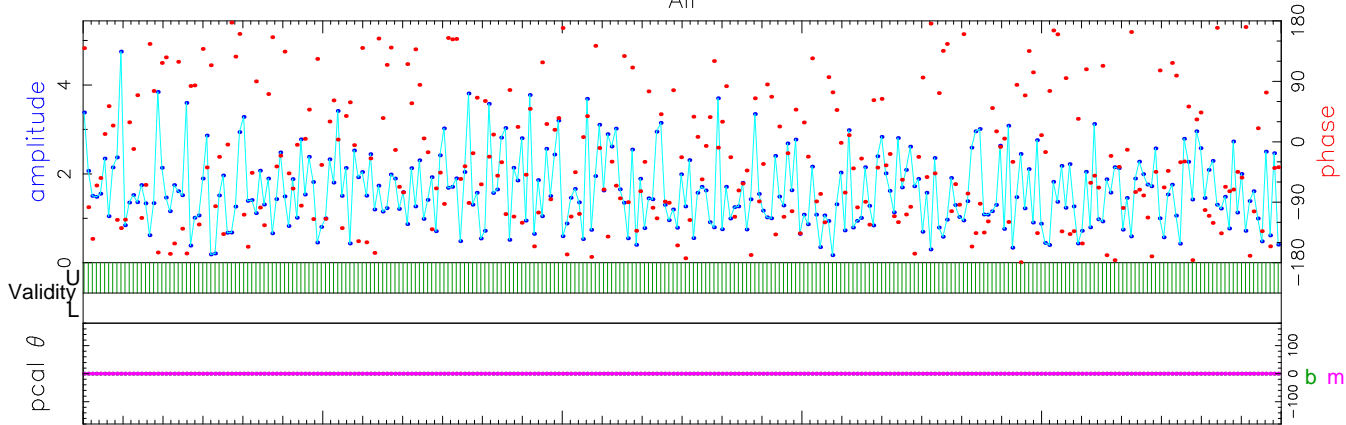
B: az 297.1 el 22.7 pa 43.3 m: az 60.9 el 29.7 pa -85.7 u,v (fr/asec) 13325.730 5339.270 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Bm..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Bm.W.50.1T5GV4

Fringe quality 8



SNR 8.8
Int time 299.957
Amp 1.815
Phase -79.9
PFD 1.6e-11
Delays (us)
SBD 0.276325
MBD 0.000007
Fringe rate (Hz)
0.921404
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051952
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-65.6
0.5
1550.3
U/L 586/0
b 0
m 0
b:m 0:0
b:m 0:0
b 1000
m 1000
b W03UL
m W03UR

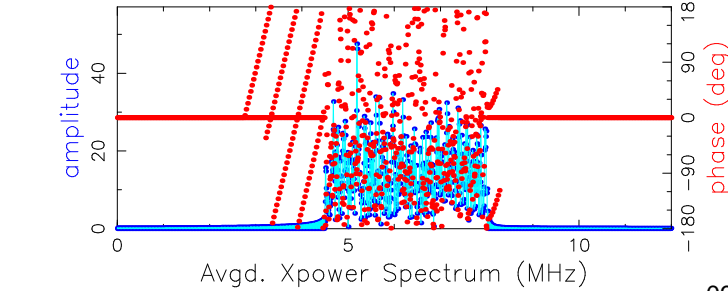
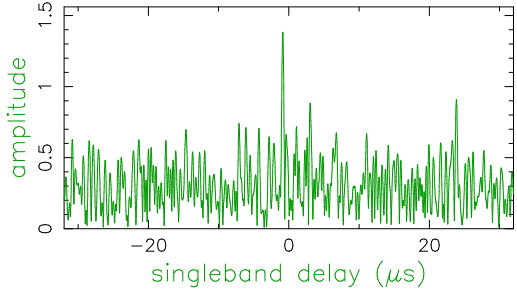
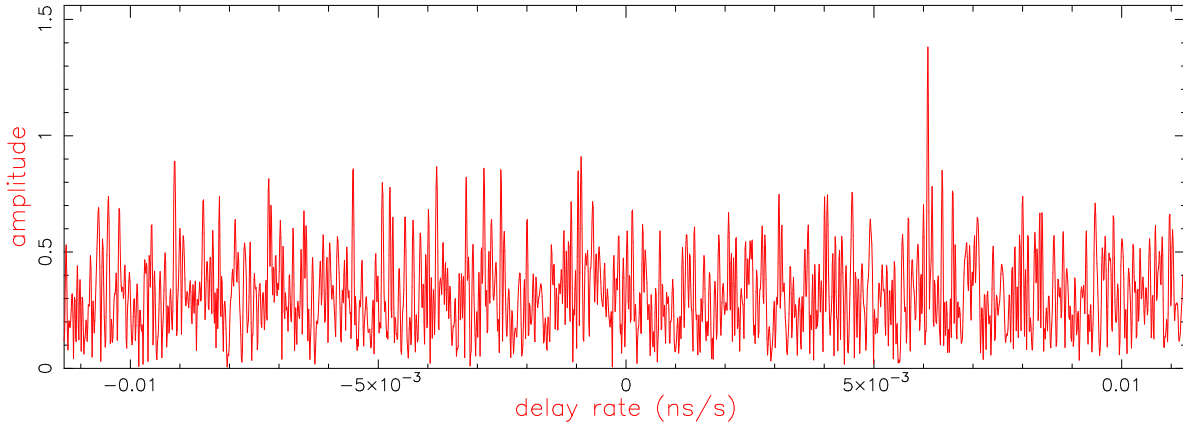
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	8.26556876460E+03	Apriori delay (usec)	8.26529244036E+03	Resid mbdelay (usec)	7.07992E-06	+/-	5.2E-03
Sband delay (usec)	8.26556876569E+03	Apriori clock (usec)	-1.8707781E+01	Resid sbdelay (usec)	2.76325E-01	+/-	5.2E-03
Phase delay (usec)	8.26529243824E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-2.11627E-06	+/-	4.2E-07
Delay rate (us/s)	-6.70122989875E-01	Apriori rate (us/s)	-6.70133686460E-01	Resid rate (us/s)	1.06966E-05	+/-	2.4E-09
Total phase (deg)	-147.4	Apriori accel (us/s/s)	-1.81999498030E-05	Resid phase (deg)	-79.9	+/-	13.0

ph/seg (deg)	RMS 93.0	Theor. 110.9	Amplitude 1.815 +/- 0.205	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	76.2	193.5	Search (2048X8) 1.211	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.3	Inc. seg. avg. 0.847	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.802	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				nlags: 1536 t_cohere infinite	

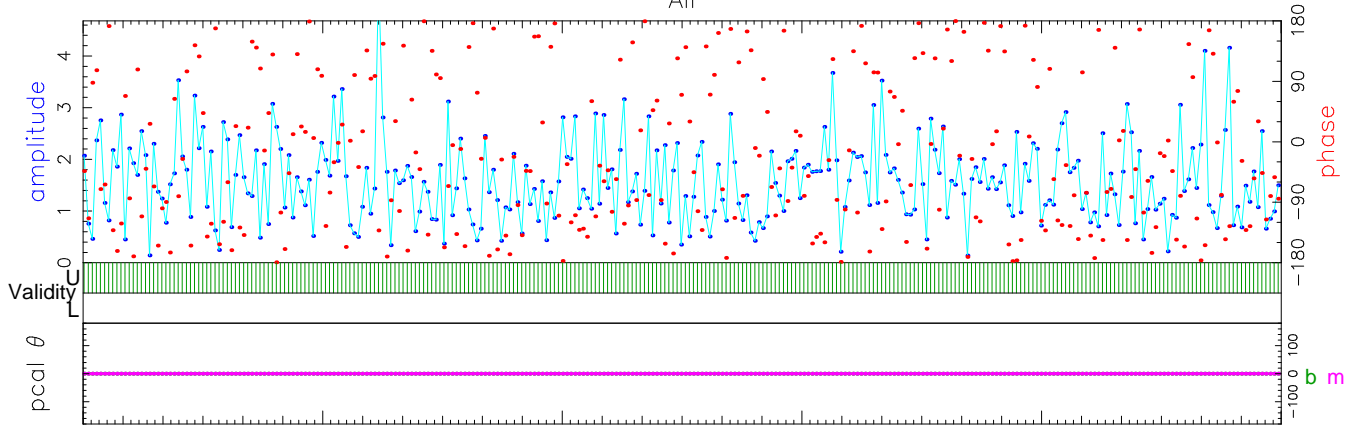
b: az 109.2 el 63.1 pa -50.1 m: az 60.9 el 29.7 pa -85.7 u,v (fr/asec) 4622.930 1950.178 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bm..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bm.W.60.1T5GV4

Fringe quality 7



SNR 10.0
Int time 299.957
Amp 1.561
Phase 155.3
PFD 2.4e-16
Delays (us)
SBD -0.859693
MBD 0.000006
Fringe rate (Hz)
0.523932
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051953
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-130.4
0.5
1495.7
U/L 586/0
b 0
m 0
b:m 0:0
b:m 0:0
b 1000
m 1000
b W03UR
m W03UL

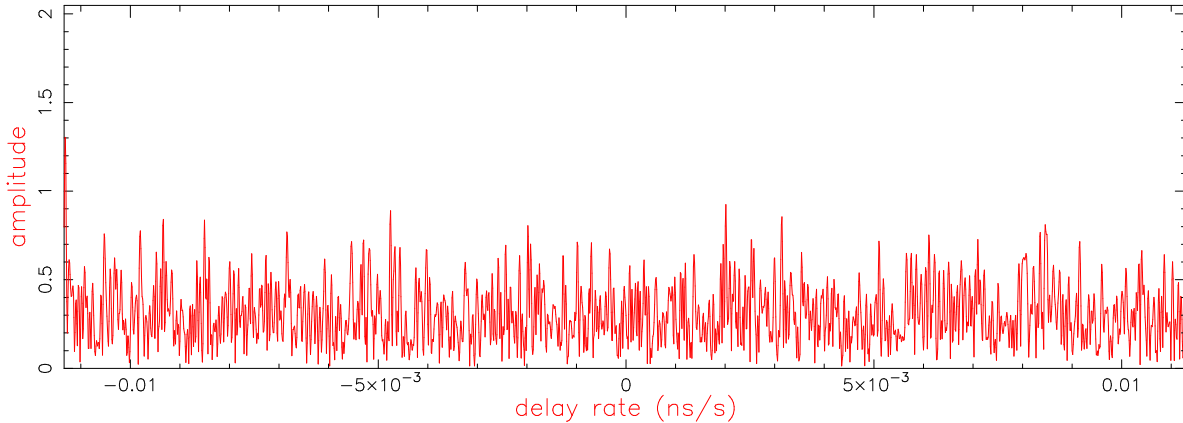
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	8.26443275030E+03	Apriori delay (usec)	8.26529244036E+03	Resid mbdelay (usec)	5.86350E-06	+/-	4.6E-03
Sband delay (usec)	8.26443274702E+03	Apriori clock (usec)	-1.8707781E+01	Resid sbdelay (usec)	-8.59693E-01	+/-	4.6E-03
Phase delay (usec)	8.26529243615E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-4.20358E-06	+/-	3.7E-07
Delay rate (us/s)	-6.70127604133E-01	Apriori rate (us/s)	-6.70133686460E-01	Resid rate (us/s)	6.08233E-06	+/-	2.1E-09
Total phase (deg)	87.8	Apriori accel (us/s/s)	-1.81999498030E-05	Resid phase (deg)	155.3	+/-	11.4

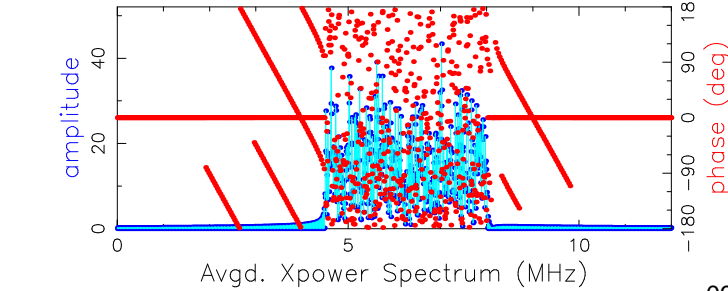
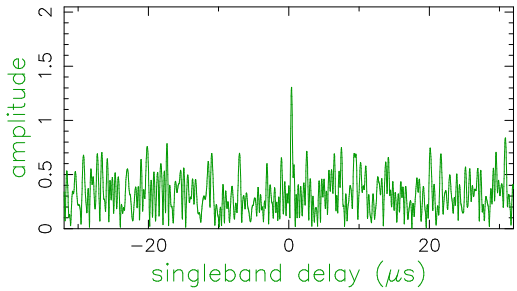
ph/seg (deg)	RMS 89.8	Theor. 97.8	Amplitude Search (2048X8)	1.561 +/- 0.156	1.341	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	59.6	170.8	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000	
ph/frq (deg)	0.0	5.7	Inc. seg. avg.	0.728	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000	
amp/frq (%)	70.7	10.0	Inc. frq. avg.	1.552	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011	
b: az 109.2 el 63.1 pa -50.1	m: az 60.9 el 29.7 pa -85.7		u,v (fr/asec) 4622.930 1950.178		ion window (TEC) 0.00 0.00			simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bm..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bm.W.70.1T5GV4

Fringe quality 8

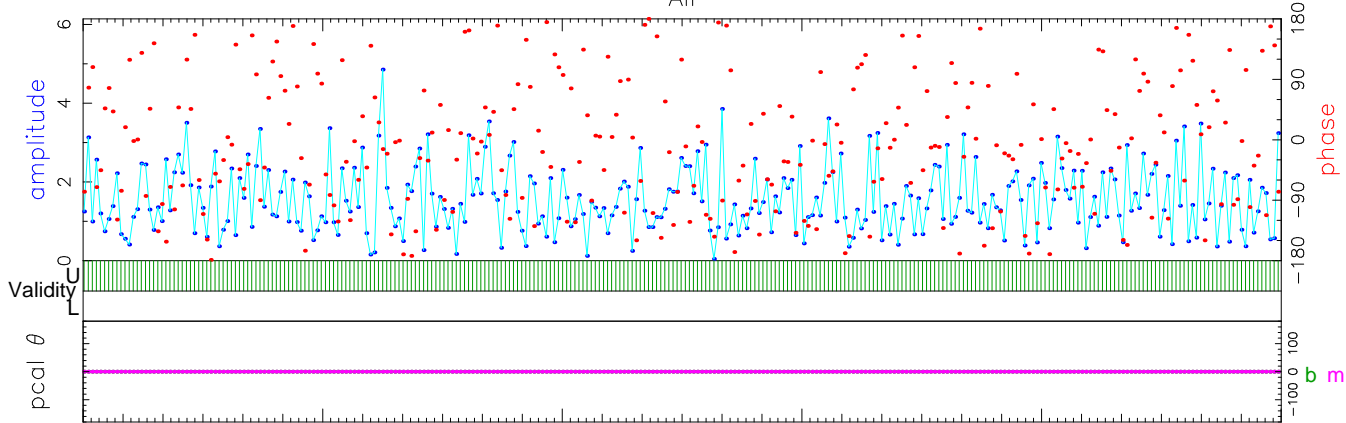


SNR 9.5
Int time 299.957
Amp 2.048
Phase -199.1
PFD 4.7e-14
Delays (us)
SBD 0.384729
MBD -0.000006
Fringe rate (Hz)
-0.973509
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051947
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-29.1
0.6
1555.5
U/L 586/0
b 0
m 0
b:m 0:0
b:m 0:0
b 1000
m 1000
b W03UL
m W03UL

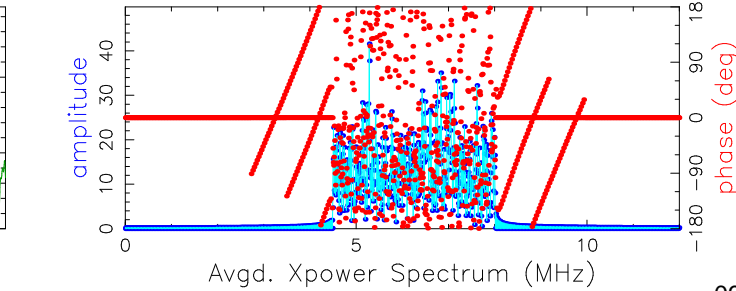
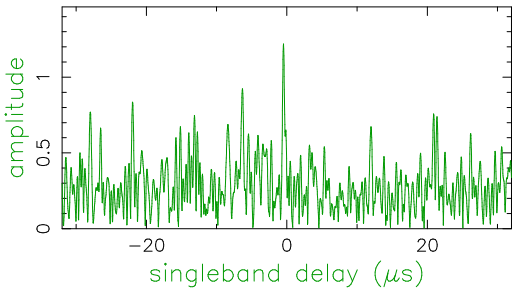
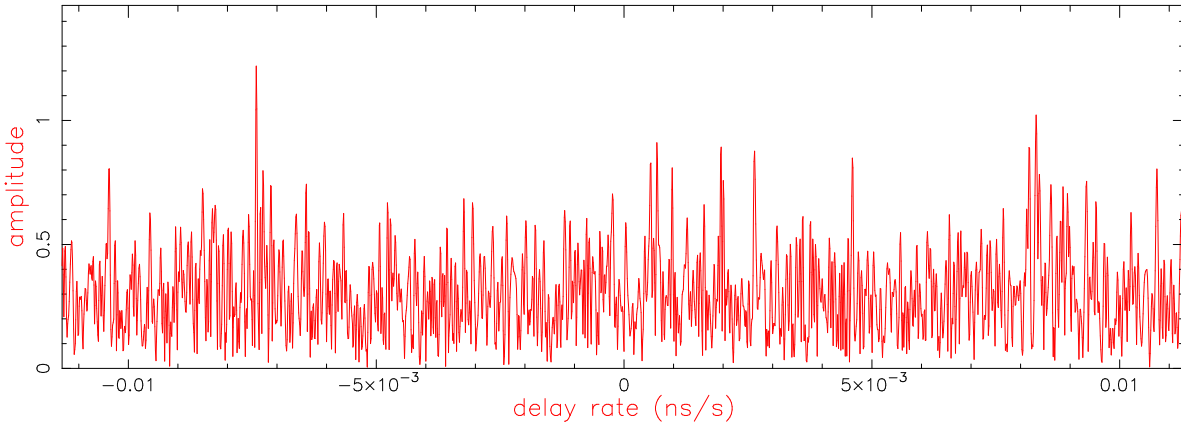
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	8.26567717450E+03	Apriori delay (usec)	8.26529244036E+03	Resid mbdelay (usec)	-6.13775E-06	+/-	4.8E-03
Sband delay (usec)	8.26567716969E+03	Apriori clock (usec)	-1.8707781E+01	Resid sbdelay (usec)	3.84729E-01	+/-	4.8E-03
Phase delay (usec)	8.26529243942E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-9.37883E-07	+/-	3.9E-07
Delay rate (us/s)	-6.70144987932E-01	Apriori rate (us/s)	-6.70133686460E-01	Resid rate (us/s)	-1.13015E-05	+/-	2.2E-09
Total phase (deg)	-266.7	Apriori accel (us/s/s)	-1.81999498030E-05	Resid phase (deg)	-199.1	+/-	12.1

ph/seg (deg)	RMS 93.8	Theor. 103.4	Amplitude Search (2048X8)	2.048 +/- 0.216	1.295	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	67.2	180.5	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	6.0	Inc. seg. avg.	0.931	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.8	10.5	Inc. frq. avg.	2.031	Sample rate(MISamp/s): 24		dr window (ns/s)	-0.011 0.011
					Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

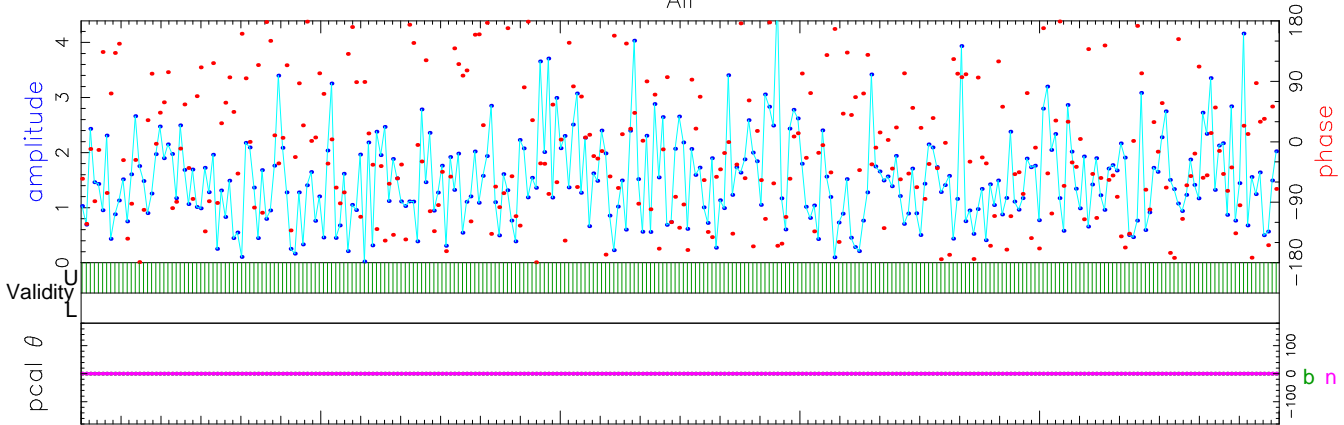
b: az 109.2 el 63.1 pa -50.1 m: az 60.9 el 29.7 pa -85.7 u,v (fr/asec) 4622.930 1950.178 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bm..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bm.W.9.1T5GV4

Fringe quality 8



SNR 8.8
Int time 299.955
Amp 1.464
Phase 80.4
PFD 1.6e-11
Delays (us)
SBD -0.475028
MBD -0.000007
Fringe rate (Hz)
-0.638409
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051948
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-37.4
0.4
1514.2
U/L 586/0
b 0
n 0
b:n 0:0
b:n 0:0
b 1000
n 1000
b W03UL
n W03UL

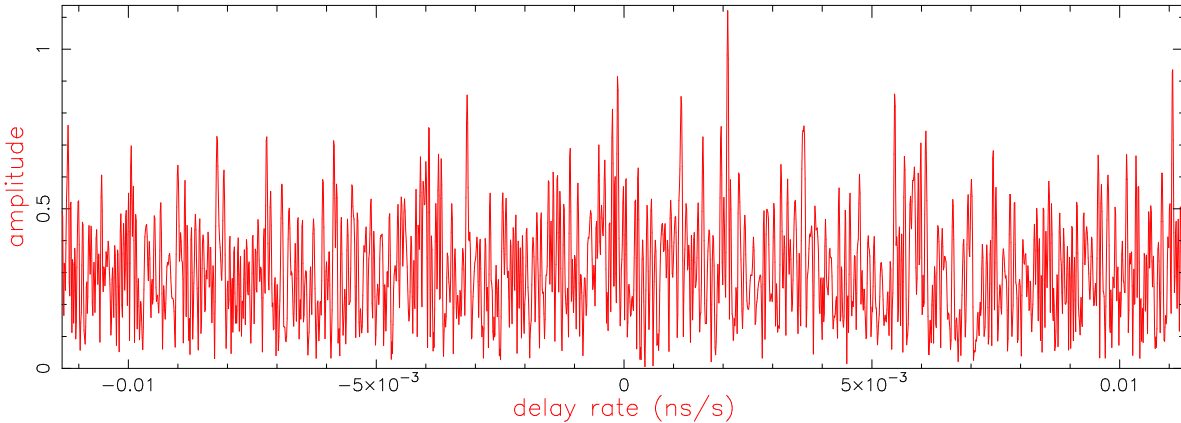
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.02966095412E+03	Apriori delay (usec)	-2.02918592165E+03	Resid mbdelay (usec)	-7.24689E-06	+/- 5.2E-03
Sband delay (usec)	-2.02966094965E+03	Apriori clock (usec)	-8.4747810E+08	Resid sbdelay (usec)	-4.75028E-01	+/- 5.2E-03
Phase delay (usec)	-2.02918592285E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-1.20609E-06	+/- 4.2E-07
Delay rate (us/s)	3.95381327312E-01	Apriori rate (us/s)	3.95388738605E-01	Resid rate (us/s)	-7.41129E-06	+/- 2.4E-09
Total phase (deg)	335.7	Apriori accel (us/s/s)	1.57571830544E-05	Resid phase (deg)	80.4	+/- 13.0

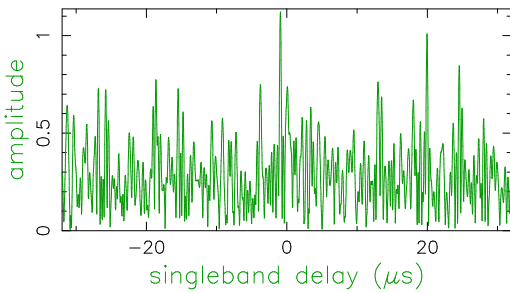
ph/seg (deg)	RMS 92.9	Theor. 110.8	Amplitude Search (2048X8)	1.464 +/- 0.166	1.177	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	71.7	193.5	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Inc. seg. avg.	0.635	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.3	Inc. frq. avg.	1.455	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

b: az 109.2 el 63.1 pa -50.1 n: az 161.1 el 82.3 pa -16.2 u,v (fr/asec) -2723.934 1442.442 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bn..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bn.W.18.1T5GV4

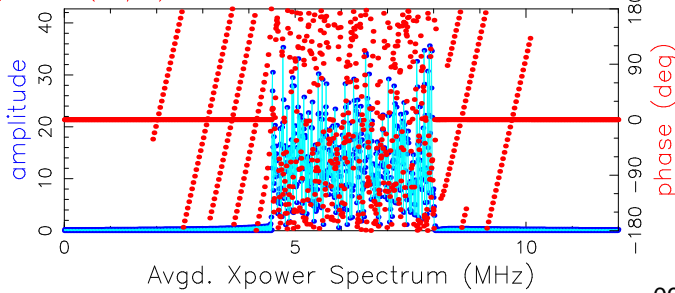
Fringe quality 8



SNR 8.1
Int time 299.955
Amp 1.137
Phase 222.1
PFD 7.0e-09
Delays (us)
SBD -0.914100
MBD 0.000004
Fringe rate (Hz)
0.180036
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



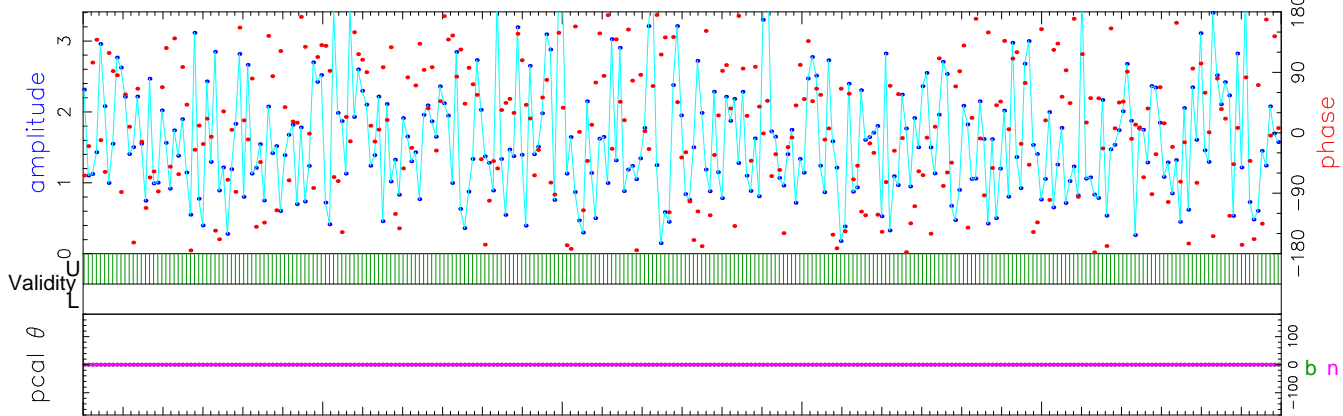
delay rate (ns/s)



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051948
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86227.00
32.5
0.3
1493.1
U/L 586/0
b 0
n 0
b:n 0:0
b:n 0:0
b 1000
n 1000
b W03UR
n W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.03010001611E+03	Apriori delay (usec)	-2.02918592165E+03	Resid mbdelay (usec)	4.36768E-06	+/-	5.7E-03
Sband delay (usec)	-2.03010002165E+03	Apriori clock (usec)	-8.4747810E+08	Resid sbdelay (usec)	-9.14100E-01	+/-	5.7E-03
Phase delay (usec)	-2.02918592060E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	1.04819E-06	+/-	4.5E-07
Delay rate (us/s)	3.95390828640E-01	Apriori rate (us/s)	3.95388738605E-01	Resid rate (us/s)	2.09003E-06	+/-	2.6E-09
Total phase (deg)	117.4	Apriori accel (us/s/s)	1.57571830544E-05	Resid phase (deg)	222.1	+/-	14.1

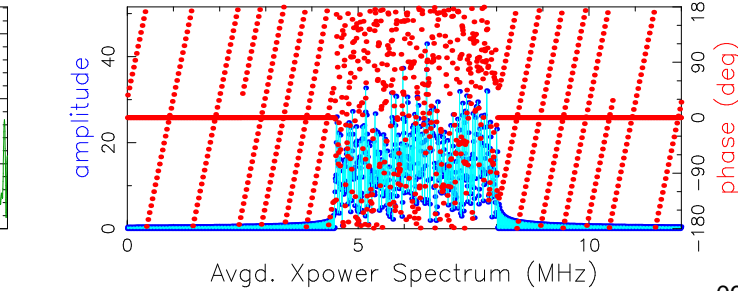
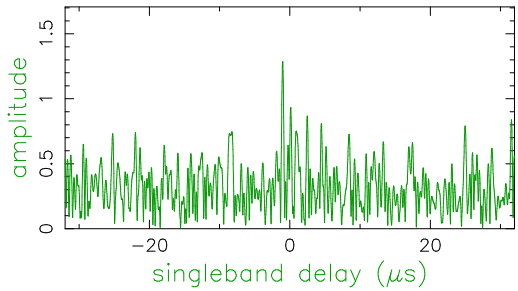
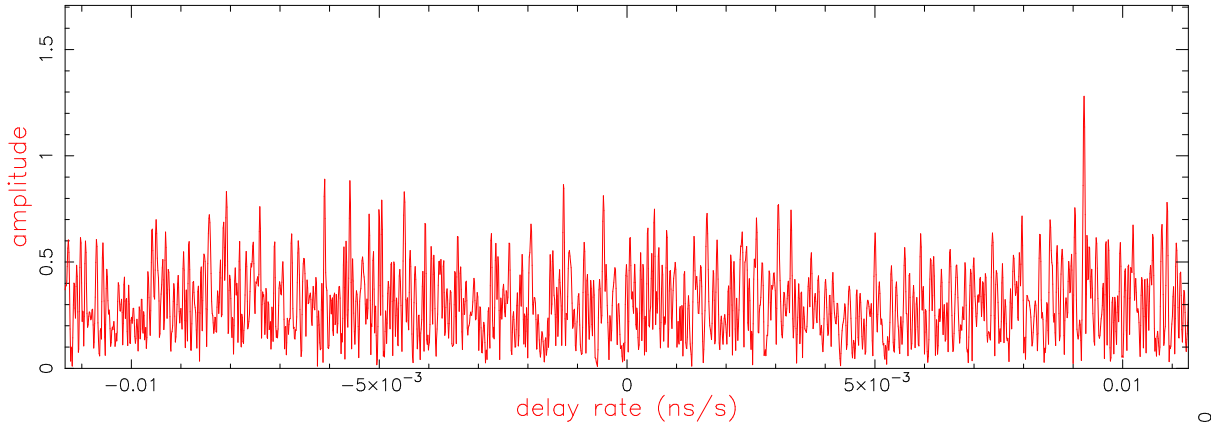
ph/seg (deg)	RMS 93.3	Theor. 120.6	Amplitude Search (2048X8)	1.137 +/- 0.140	1.108	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	85.3	210.5	Interp.	0.000	1.108	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.0	Inc. seg. avg.	0.509	1.108	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.3	Inc. frq. avg.	1.129	1.129	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

b: az 109.2 el 63.1 pa -50.1 n: az 161.1 el 82.3 pa -16.2 u,v (fr/asec) -2723.934 1442.442 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bn..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bn.W.24.1T5GV4

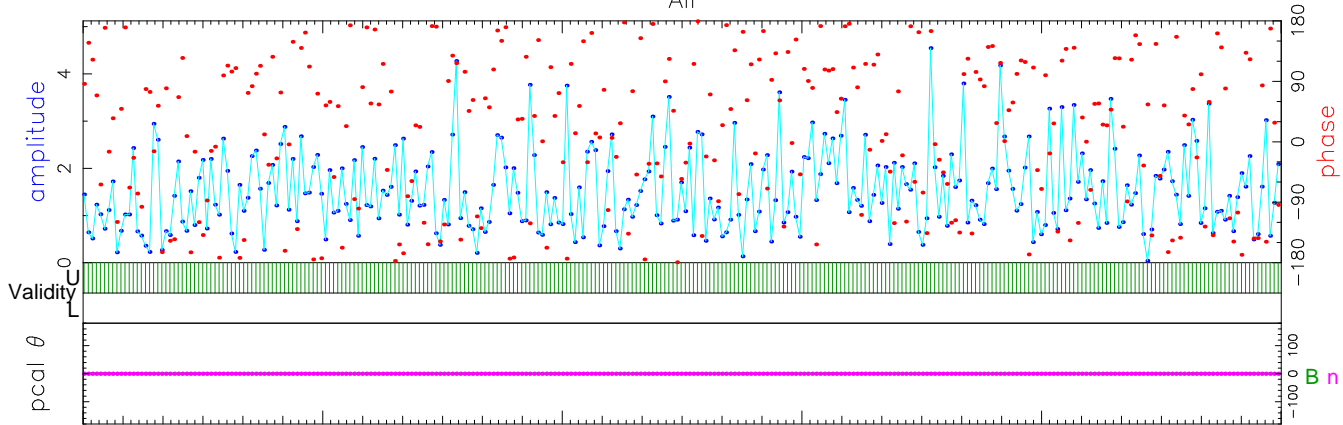
Fringe quality 8

SNR 9.3
Int time 299.972
Amp 1.708
Phase 120.7
PFD 3.1e-13
Delays (us)
SBD -1.000000
MBD 0.000007
Fringe rate (Hz)
0.793812
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051950
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
120.3
0.5
1488.1
U/L 586/0
B 0
n 0
B:n 0:0
B:n 0:0
B 1000
n 1000
B W03UL
n W03UL

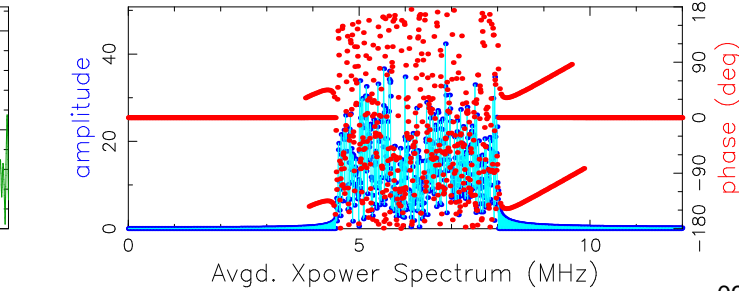
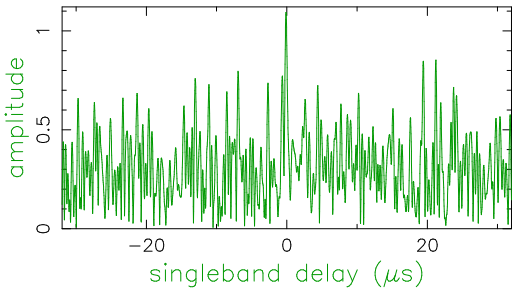
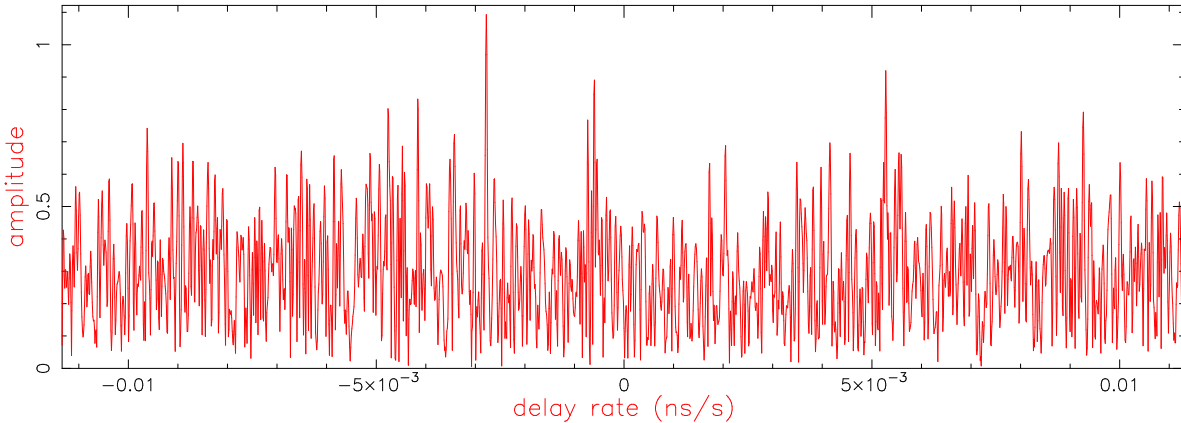
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.30871956046E+04	Apriori delay (usec)	-1.30861956002E+04	Resid mbdelay (usec)	7.24750E-06	+/-	4.9E-03
Sband delay (usec)	-1.30871956002E+04	Apriori clock (usec)	-2.7552000E+01	Resid sbdelay (usec)	-1.00000E+00	+/-	4.9E-03
Phase delay (usec)	-1.30861955963E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.88035E-06	+/-	4.0E-07
Delay rate (us/s)	-8.46282608590E-01	Apriori rate (us/s)	-8.46291823957E-01	Resid rate (us/s)	9.21537E-06	+/-	2.3E-09
Total phase (deg)	120.1	Apriori accel (us/s/s)	7.61913738277E-05	Resid phase (deg)	120.7	+/-	12.3

ph/seg (deg)	RMS 91.6	Theor. 105.7	Amplitude Search (2048X8)	1.708 +/- 0.184	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	69.4	184.4	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.2	Inc. seg. avg.	0.756	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	10.8	Inc. frq. avg.	1.698	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

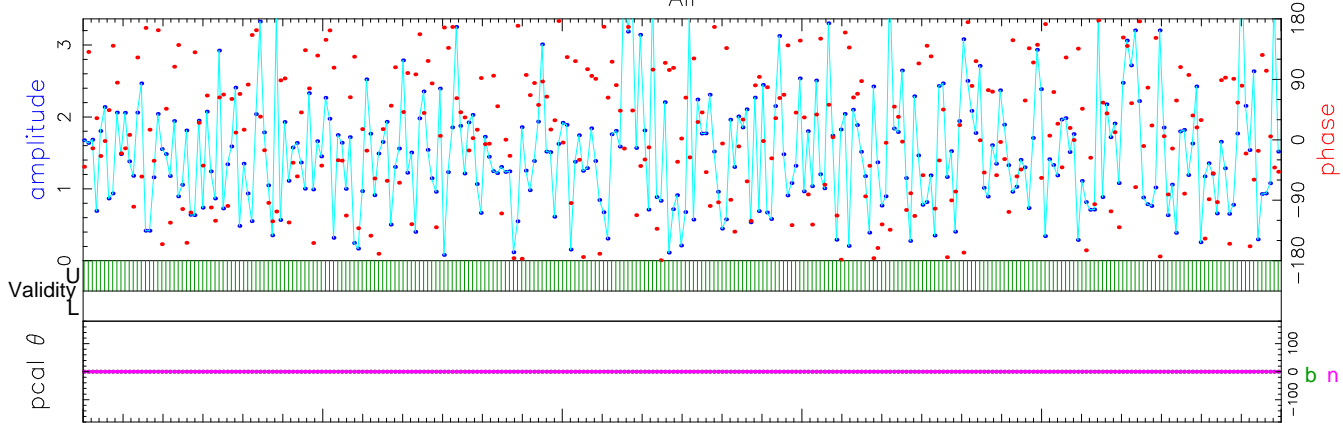
B: az 297.1 el 22.7 pa 43.3 n: az 161.1 el 82.3 pa -16.2 u,v (fr/asec) 5978.866 4831.534 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Bn..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Bn.W.40.1T5GV4

Fringe quality 8



SNR 7.9
Int time 299.955
Amp 1.121
Phase 85.0
PFD 3.5e-08
Delays (us)
SBD -0.116405
MBD -0.000004
Fringe rate (Hz)
-0.239494
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051951
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
39.2
0.3
1531.4
U/L 586/0
b 0
n 0
b:n 0:0
b:n 0:0
b 1000
n 1000
b W03UL
n W03UR

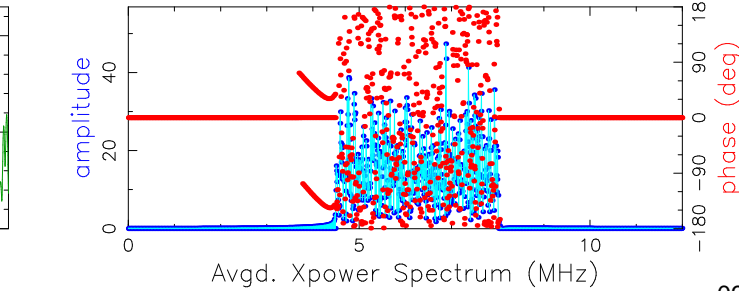
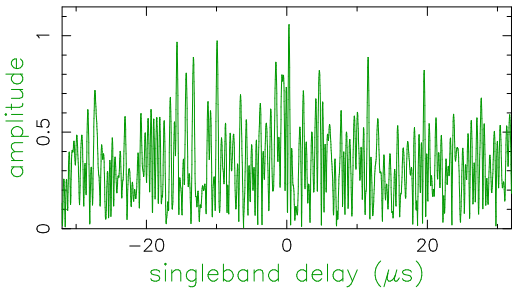
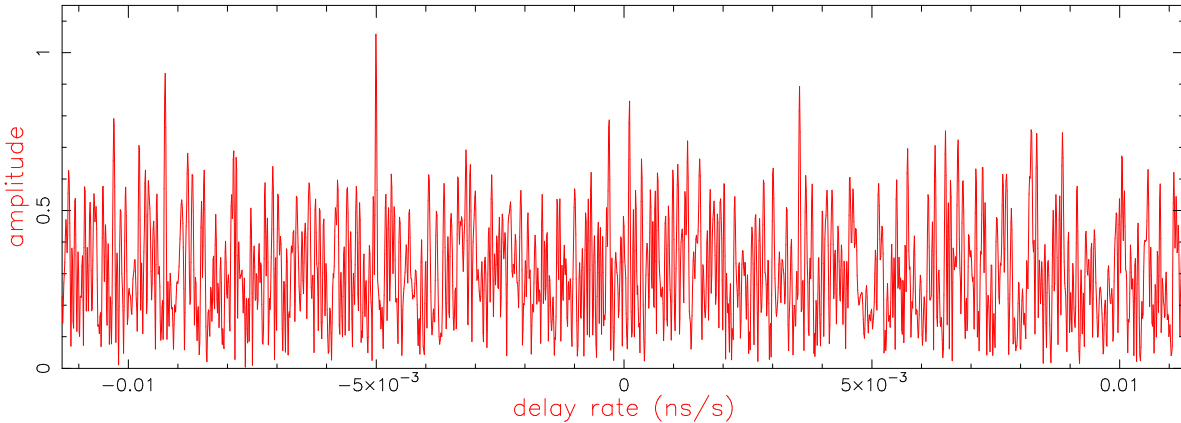
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.02930232815E+03	Apriori delay (usec)	-2.02918592165E+03	Resid mbdelay (usec)	-4.45197E-06	+/-	5.8E-03
Sband delay (usec)	-2.02930232698E+03	Apriori clock (usec)	-8.4747810E+08	Resid sbdelay (usec)	-1.16405E-01	+/-	5.8E-03
Phase delay (usec)	-2.02918592038E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	1.26549E-06	+/-	4.7E-07
Delay rate (us/s)	3.95385958315E-01	Apriori rate (us/s)	3.95388738605E-01	Resid rate (us/s)	-2.78029E-06	+/-	2.7E-09
Total phase (deg)	340.3	Apriori accel (us/s/s)	1.57571830544E-05	Resid phase (deg)	85.0	+/-	14.4

ph/seg (deg)	RMS 93.0	Theor. 123.6	Amplitude Search (2048X8)	1.121 +/- 0.141	1.090	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	83.8	215.8	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.468	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.6	Inc. frq. avg.	1.112	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

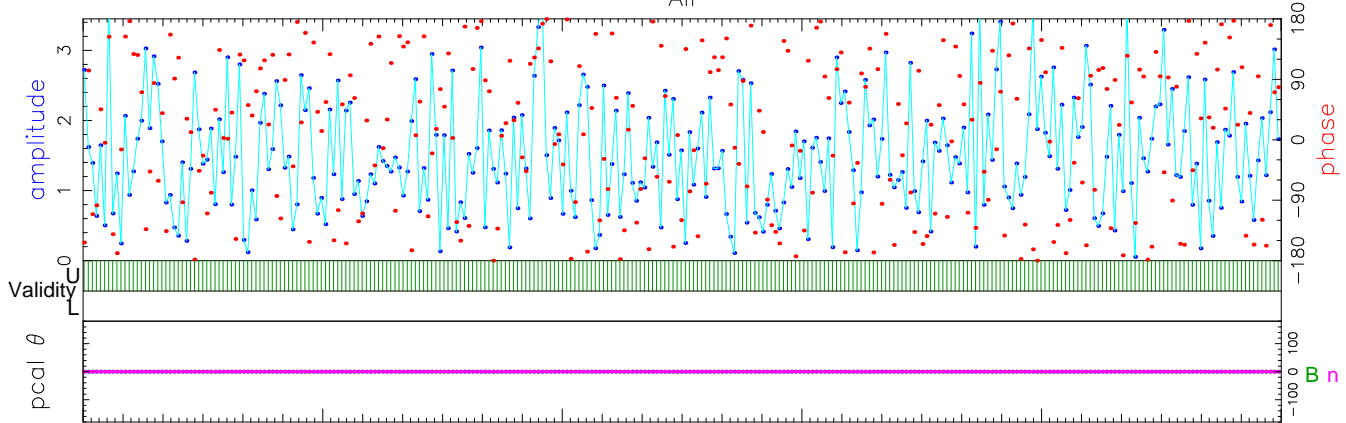
b: az 109.2 el 63.1 pa -50.1 n: az 161.1 el 82.3 pa -16.2 u,v (fr/asec) -2723.934 1442.442 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bn..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bn.W.52.1T5GV4

Fringe quality 8



SNR 7.7
Int time 299.972
Amp 1.150
Phase -52.7
PFD 2.4e-07
Delays (us)
SBD 0.305005
MBD -0.000007
Fringe rate (Hz)
-0.430880
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051952
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
140.2
0.3
1551.6
U/L 586/0
B 0
n 0
B:n 0:0
B:n 0:0
B 1000
n 1000
B W03UR
n W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.30858905982E+04	Apriori delay (usec)	-1.30861956002E+04	Resid mbdelay (usec)	-6.88415E-06	+/-	6.0E-03
Sband delay (usec)	-1.30858905949E+04	Apriori clock (usec)	-2.7552000E+01	Resid sbdelay (usec)	3.05005E-01	+/-	6.0E-03
Phase delay (usec)	-1.30861955957E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.52130E-06	+/-	4.8E-07
Delay rate (us/s)	-8.46296826046E-01	Apriori rate (us/s)	-8.46291823957E-01	Resid rate (us/s)	-5.00209E-06	+/-	2.8E-09
Total phase (deg)	-53.3	Apriori accel (us/s/s)	7.61913738277E-05	Resid phase (deg)	-52.7	+/-	14.9

ph/seg (deg) 92.4 127.6
amp/seg (%) 87.0 222.7
ph/frq (deg) 0.0 7.5
amp/frq (%) 70.7 13.0

RMS Theor. Amplitude 1.150 +/- 0.150
Search (2048X8) 1.044
Interp. 0.000
Inc. seg. avg. 0.470
Inc. frq. avg. 1.138

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MISamp/s): 24
Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite

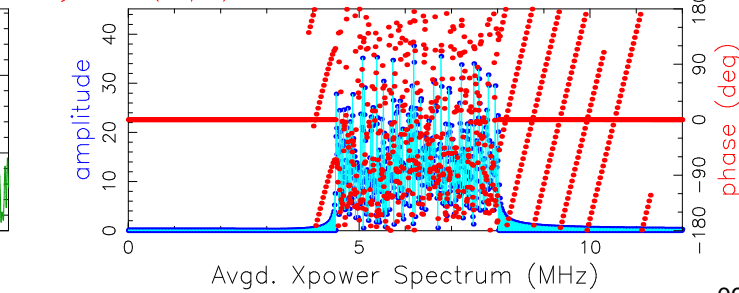
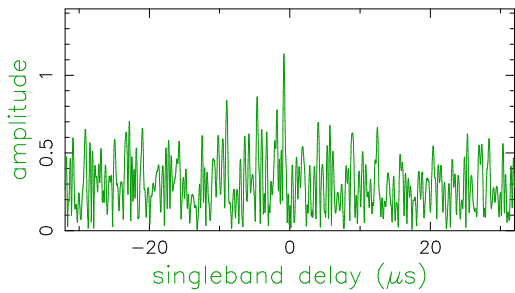
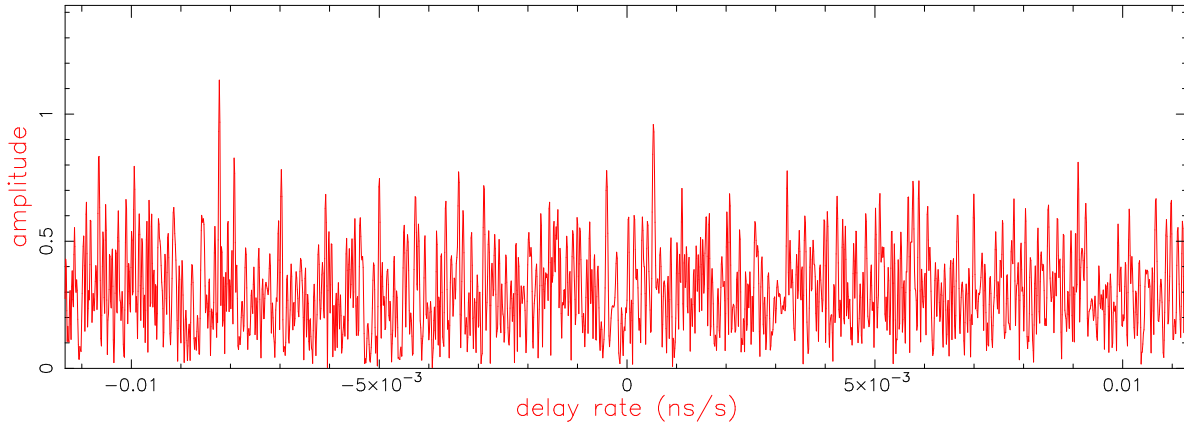
sb window (us) -1.000 1.000
mb window (us) -0.000 0.000
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

B: az 297.1 el 22.7 pa 43.3 n: az 161.1 el 82.3 pa -16.2 u,v (fr/asec) 5978.866 4831.534 simultaneous interpolator

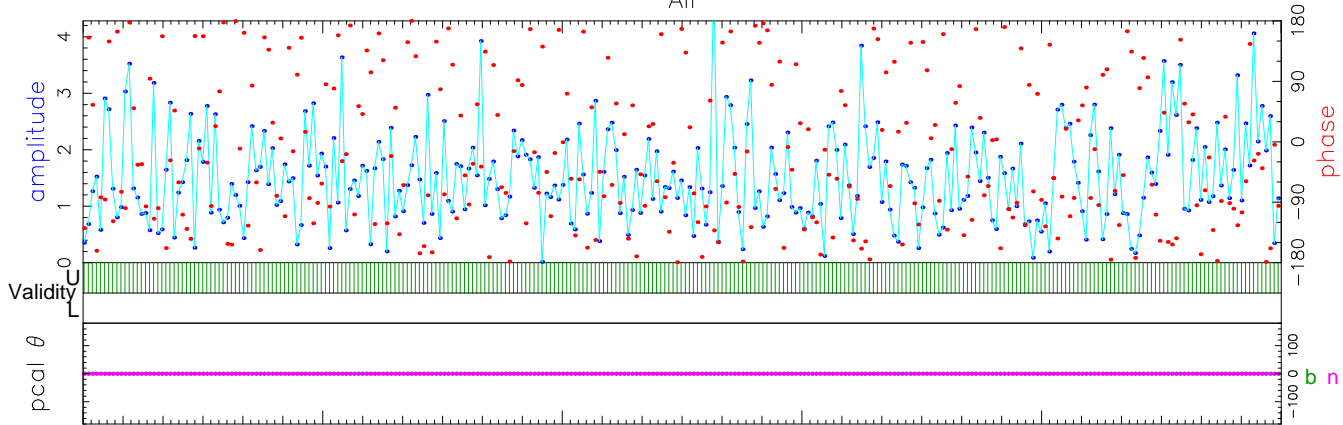
Fringe quality 8

SNR 8.3
Int time 299.955
Amp 1.427
Phase 314.5
PFD 2.6e-09
Delays (us)
SBD -0.841217
MBD -0.000007
Fringe rate (Hz)
-0.707875
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051953
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-112.2
0.4
1496.6
U/L 586/0
b 0
n 0
b:n 0:0
b:n 0:0
b 1000
n 1000
b W03UR
n W03UL

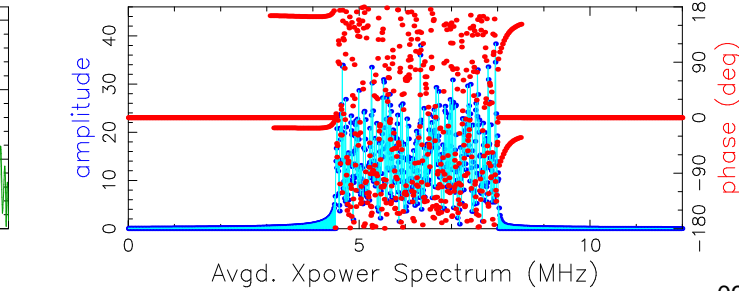
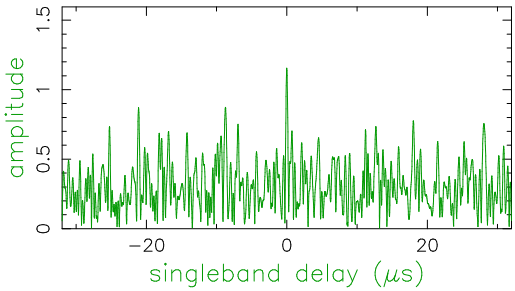
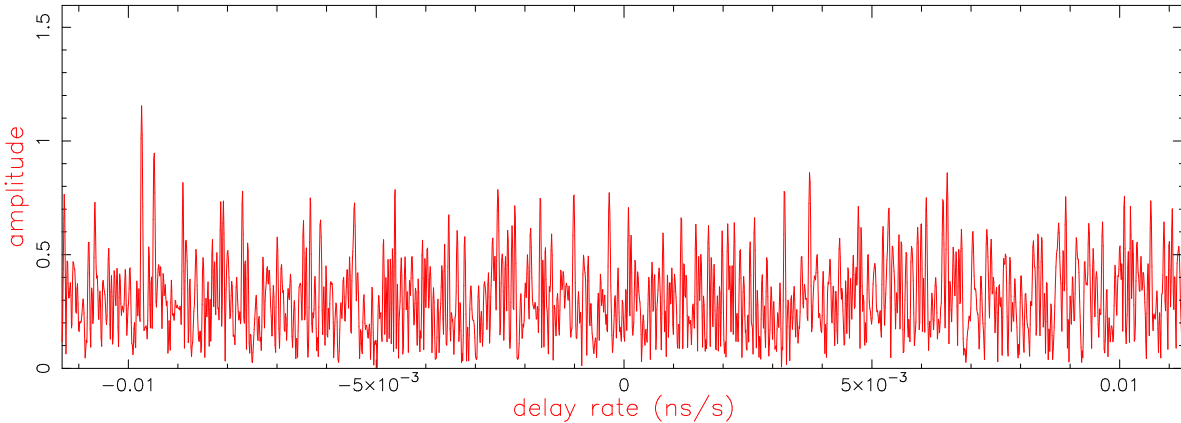
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.03002713872E+03	Apriori delay (usec)	-2.02918592165E+03	Resid mbdelay (usec)	-7.24358E-06	+/-	5.6E-03
Sband delay (usec)	-2.03002713898E+03	Apriori clock (usec)	-8.4747810E+08	Resid sbdelay (usec)	-8.41217E-01	+/-	5.6E-03
Phase delay (usec)	-2.02918592526E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-3.61700E-06	+/-	4.5E-07
Delay rate (us/s)	3.95380520883E-01	Apriori rate (us/s)	3.95388738605E-01	Resid rate (us/s)	-8.21772E-06	+/-	2.6E-09
Total phase (deg)	209.9	Apriori accel (us/s/s)	1.57571830544E-05	Resid phase (deg)	314.5	+/-	13.9

ph/seg (deg)	RMS 92.1	Theor. 118.8	Amplitude Search (2048X8)	1.427 +/- 0.173	1.127	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.5	207.4	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.602	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.8	12.1	Inc. frq. avg.	1.411	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

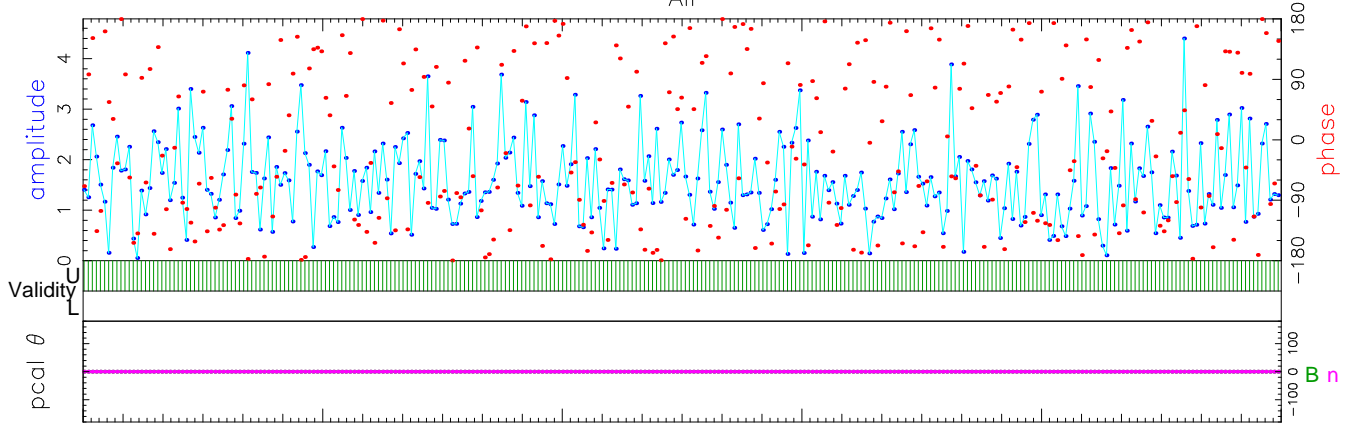
b: az 109.2 el 63.1 pa -50.1 n: az 161.1 el 82.3 pa -16.2 u,v (fr/asec) -2723.934 1442.442 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bn..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bn.W.71.1T5GV4

Fringe quality 8



SNR 8.4
Int time 299.972
Amp 1.596
Phase 55.7
PFD 9.2e-10
Delays (us)
SBD -0.007016
MBD -0.000007
Fringe rate (Hz)
-0.837534
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051954
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-163.7
0.5
1536.7
U/L 586/0
B 0
n 0
B:n 0:0
B:n 0:0
B 1000
n 1000
B W03UL
n W03UR

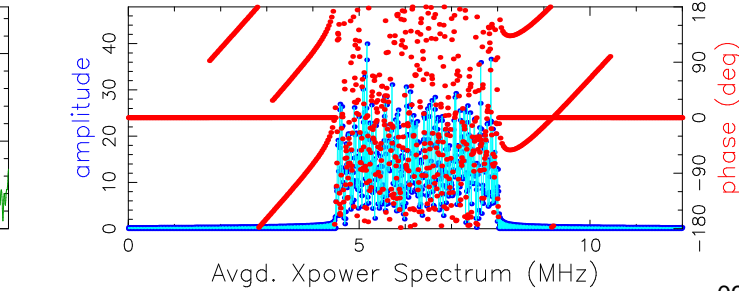
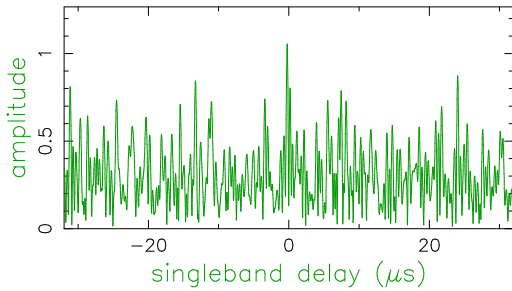
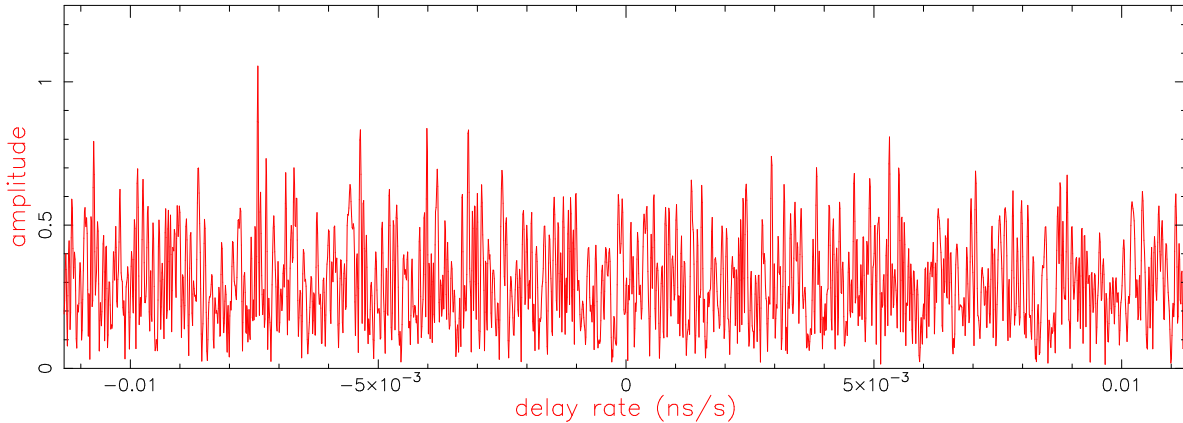
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.30862026116E+04	Apriori delay (usec)	-1.30861956002E+04	Resid mbdelay (usec)	-6.62623E-06	+/-	5.5E-03
Sband delay (usec)	-1.30862026162E+04	Apriori clock (usec)	-2.7552000E+01	Resid sbdelay (usec)	-7.01600E-03	+/-	5.5E-03
Phase delay (usec)	-1.30861956055E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.27975E-06	+/-	4.4E-07
Delay rate (us/s)	-8.46301546892E-01	Apriori rate (us/s)	-8.46291823957E-01	Resid rate (us/s)	-9.72293E-06	+/-	2.5E-09
Total phase (deg)	55.0	Apriori accel (us/s/s)	7.61913738277E-05	Resid phase (deg)	55.7	+/-	13.7

ph/seg (deg)	88.7	Theor.	117.1	Amplitude	1.596 +/- 0.191	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	79.2	Search (2048X8)	1.139	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	Inc. seg. avg.	0.711	Inc. frq. avg.	1.583	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	Inc. frq. avg.	1.583			Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011 0.011	
						Data rate(Mb/s): 48	ion window (TEC)	0.00 0.00	
						nlags: 1536 t_cohere infinite			

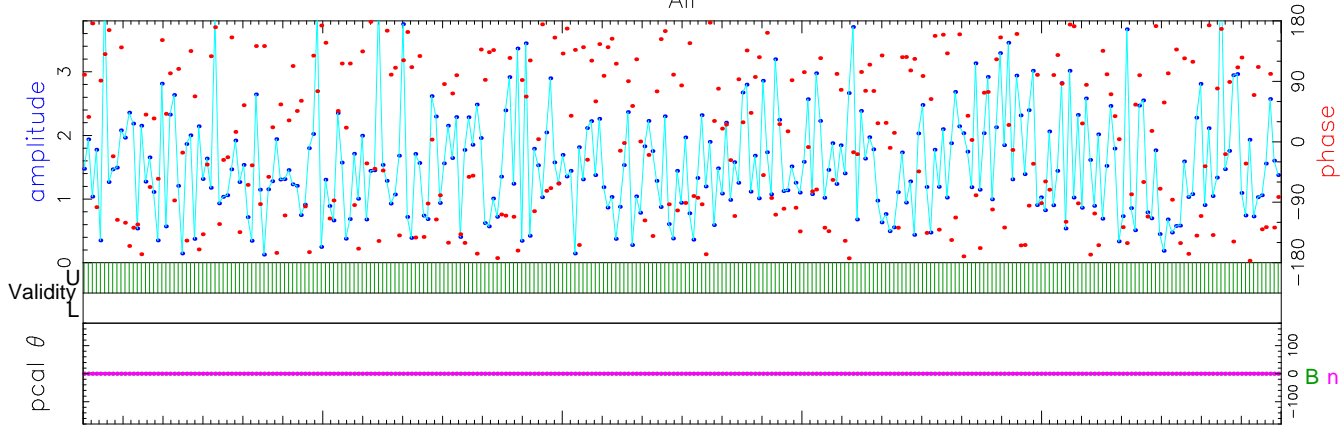
B: az 297.1 el 22.7 pa 43.3 n: az 161.1 el 82.3 pa -16.2 u,v (fr/asec) 5978.866 4831.534 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Bn..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Bn.W.78.1T5GV4

Fringe quality 8



SNR 7.7
Int time 299.972
Amp 1.267
Phase 228.7
PFD 3.1e-07
Delays (us)
SBD -0.231861
MBD -0.000006
Fringe rate (Hz)
-0.639390
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051955
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
167.1
0.4
1525.9
U/L 586/0
B 0
n 0
B:n 0:0
B:n 0:0
B 1000
n 1000
B W03UR
n W03UL

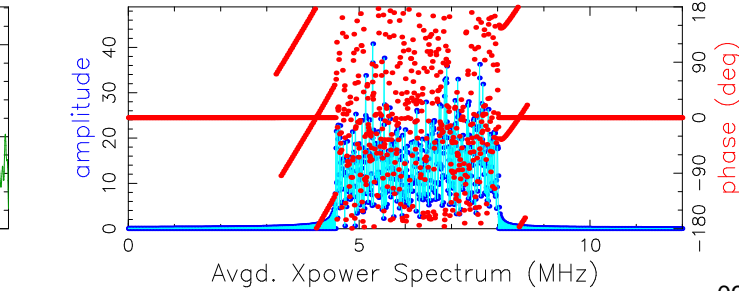
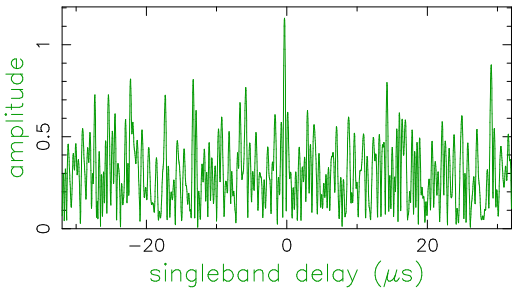
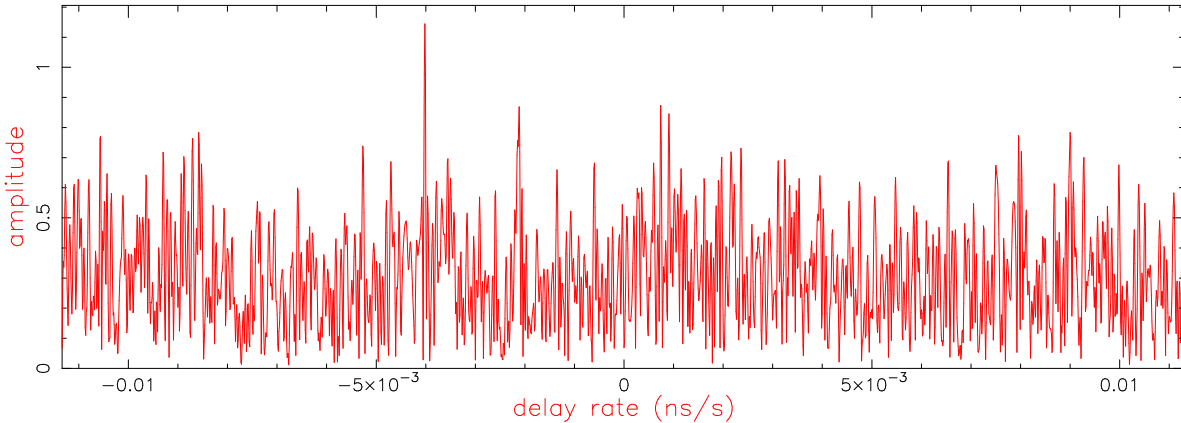
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.30864274598E+04	Apriori delay (usec)	-1.30861956002E+04	Resid mbdelay (usec)	-6.46071E-06	+/-	6.0E-03
Sband delay (usec)	-1.30864274615E+04	Apriori clock (usec)	-2.7552000E+01	Resid sbdelay (usec)	-2.31861E-01	+/-	6.0E-03
Phase delay (usec)	-1.30861955948E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.38751E-06	+/-	4.8E-07
Delay rate (us/s)	-8.46299246641E-01	Apriori rate (us/s)	-8.46291823957E-01	Resid rate (us/s)	-7.42268E-06	+/-	2.8E-09
Total phase (deg)	228.1	Apriori accel (us/s/s)	7.61913738277E-05	Resid phase (deg)	228.7	+/-	15.0

ph/seg (deg)	RMS 93.0	Theor. 128.2	Amplitude Search (2048X8)	1.267 +/- 0.166	1.006	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	93.2	223.7	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.5	Inc. seg. avg.	0.536	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	13.1	Inc. frq. avg.	1.256	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

B: az 297.1 el 22.7 pa 43.3 n: az 161.1 el 82.3 pa -16.2 u,v (fr/asec) 5978.866 4831.534 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Bn..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Bn.W.90.1T5GV4

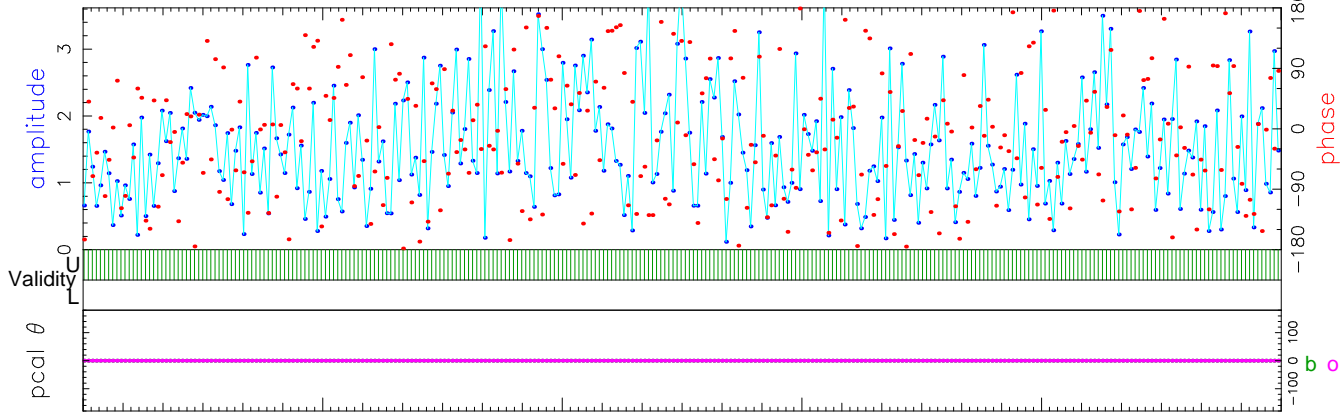
Fringe quality 8



SNR 8.3
Int time 299.956
Amp 1.206
Phase 337.8
PFD 1.8e-09
Delays (us)
SBD -0.333371
MBD -0.000004
Fringe rate (Hz)
-0.346297
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051950
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86227.00
-23.2
0.4
1521.0
U/L 586/0
b 0
o 0
b:o 0:0
b:o 0:0
b 1000
o 1000
b W03UL
o W03UL

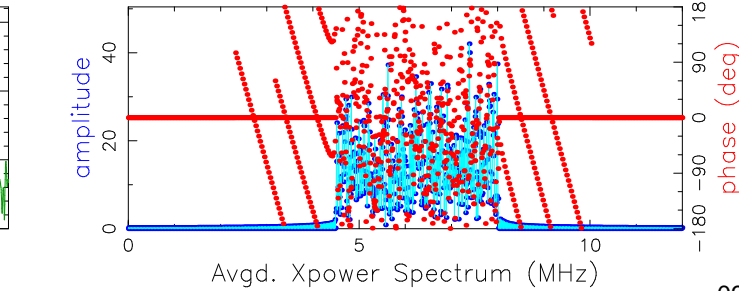
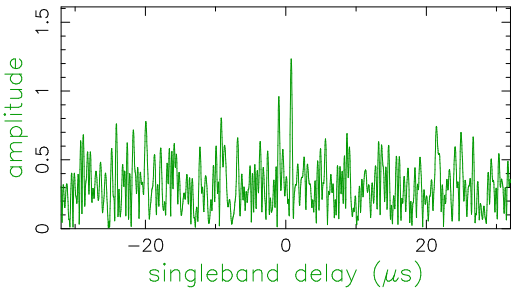
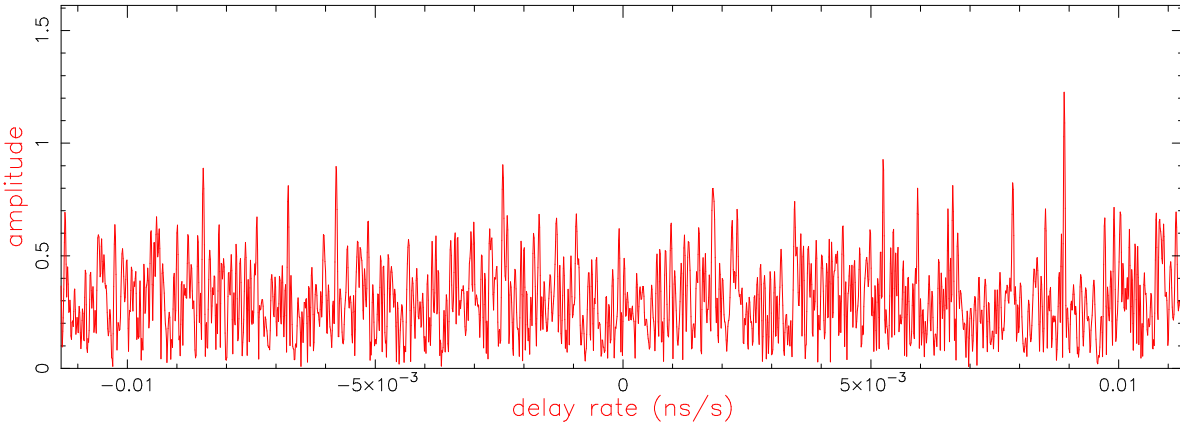
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.51908249593E+02	Apriori delay (usec)	-4.51574880973E+02	Resid mbdelay (usec)	-4.36051E-06	+/-	5.5E-03
Sband delay (usec)	-4.51908251639E+02	Apriori clock (usec)	-6.7457809E+00	Resid sbdelay (usec)	-3.33371E-01	+/-	5.5E-03
Phase delay (usec)	-4.51574881720E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-7.47138E-07	+/-	4.5E-07
Delay rate (us/s)	-6.11779947475E-02	Apriori rate (us/s)	-6.11739745871E-02	Resid rate (us/s)	-4.02016E-06	+/-	2.6E-09
Total phase (deg)	248.9	Apriori accel (us/s/s)	1.12696343782E-05	Resid phase (deg)	337.8	+/-	13.8

ph/seg (deg)	RMS 91.0	Theor. 118.2	Amplitude Search (2048X8)	1.206 +/- 0.145	1.132	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	82.7	206.3	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.520	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.1	Inc. frq. avg.	1.197	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

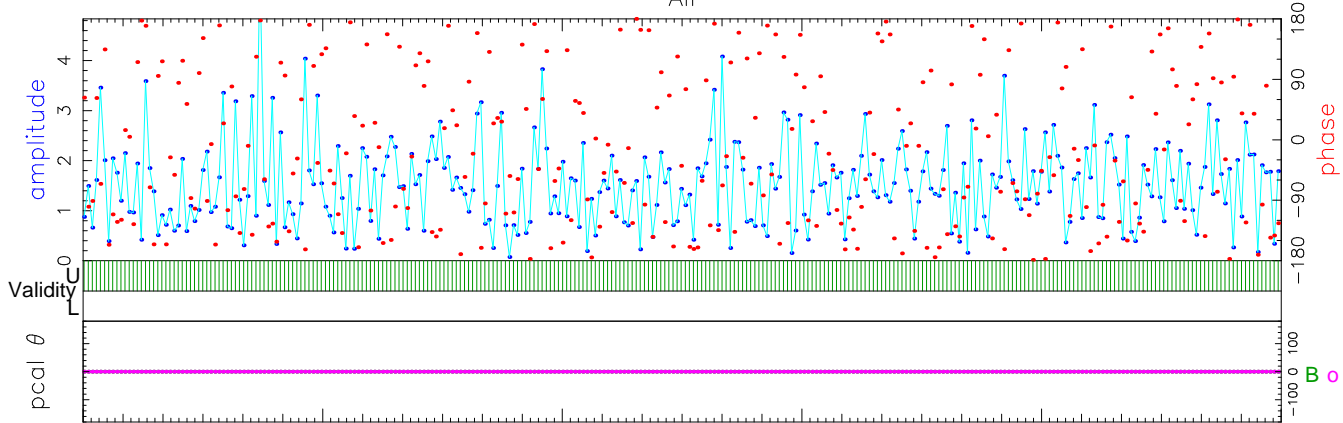
b: az 109.2 el 63.1 pa -50.1 o: az 87.7 el 65.8 pa -74.9 u,v (fr/asec) 438.768 1624.117 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bo..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bo.W.38.1T5GV4

Fringe quality 8



SNR 8.9
Int time 299.972
Amp 1.612
Phase -45.2
PFD 6.7e-12
Delays (us)
SBD 0.766803
MBD 0.000005
Fringe rate (Hz)
0.766433
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051951
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-148.9
0.5
1573.8
U/L 586/0
B 0
o 0
B:o 0:0
B:o 0:0
B 1000
o 1000
B W03UL
o W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.15078177530E+04	Apriori delay (usec)	-1.15085845595E+04	Resid mbdelay (usec)	4.94787E-06	+/-	5.1E-03
Sband delay (usec)	-1.15078177562E+04	Apriori clock (usec)	-2.5823000E+01	Resid sbdelay (usec)	7.66803E-01	+/-	5.1E-03
Phase delay (usec)	-1.15085845643E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.80286E-06	+/-	4.1E-07
Delay rate (us/s)	-1.30284563962E+00	Apriori rate (us/s)	-1.30285453715E+00	Resid rate (us/s)	8.89753E-06	+/-	2.4E-09
Total phase (deg)	-30.1	Apriori accel (us/s/s)	7.17038251515E-05	Resid phase (deg)	-45.2	+/-	12.8

ph/seg (deg)	RMS 93.1	Theor. 109.7	Amplitude Search (2048X8)	1.612 +/- 0.180	1.208	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.1	191.4	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.4	Inc. seg. avg.	0.708	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.9	11.2	Inc. frq. avg.	1.593	Sample rate(MISamp/s): 24		dr window (ns/s) -0.011 0.011
					Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

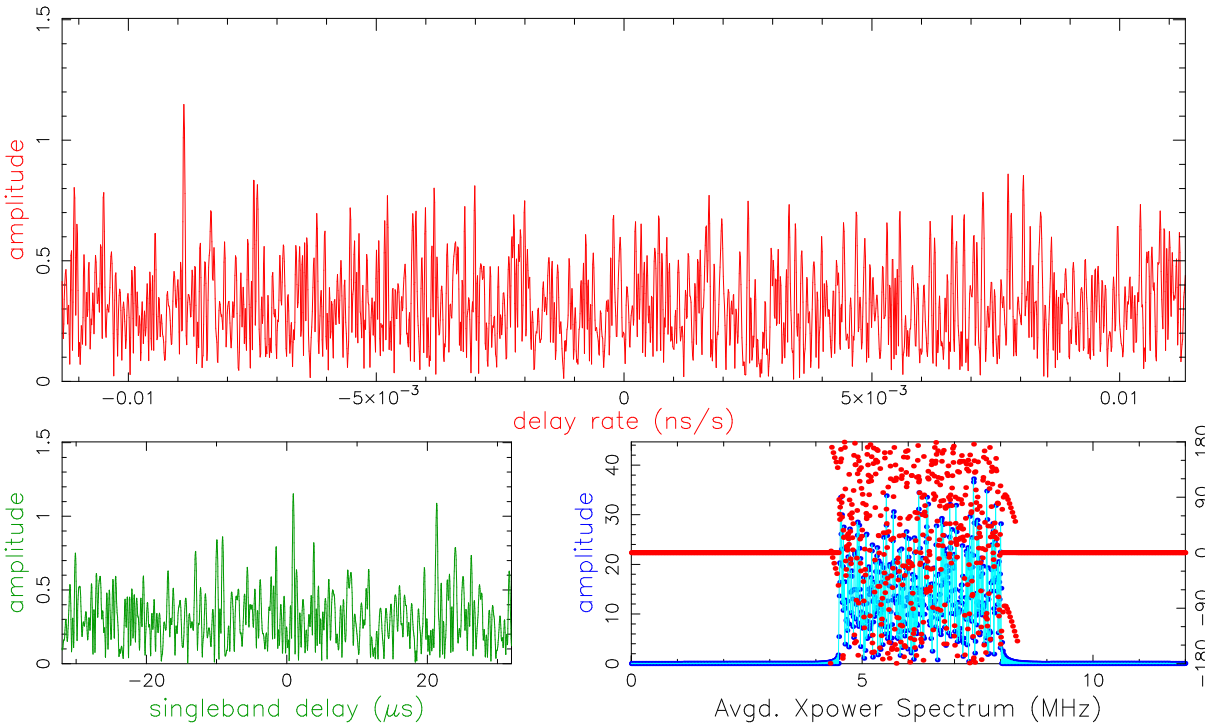
B: az 297.1 el 22.7 pa 43.3 o: az 87.7 el 65.8 pa -74.9 u,v (fr/asec) 9141.568 5013.208 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Bo..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Bo.W.48.1T5GV4

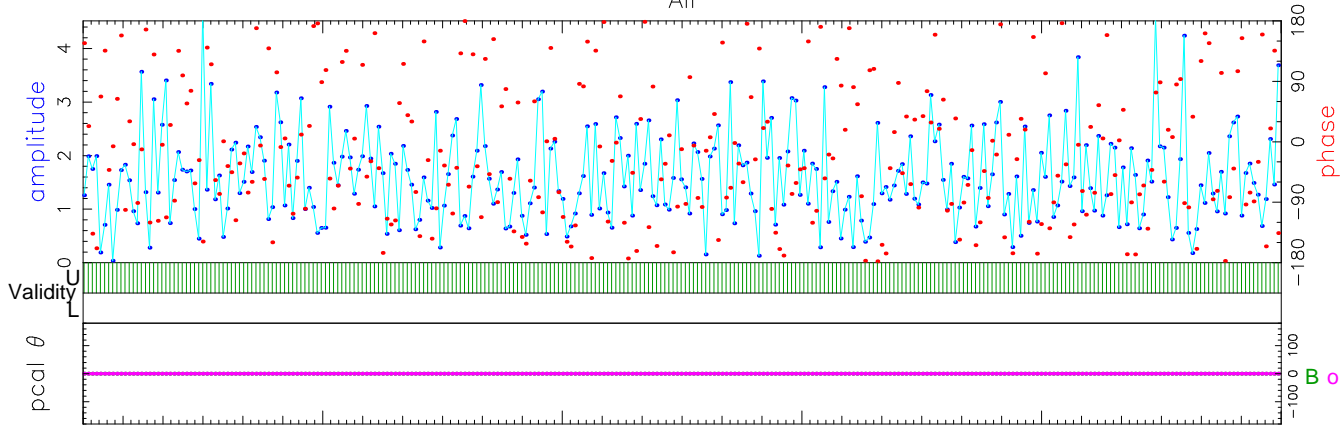
Fringe quality 8

SNR 8.4
Int time 299.972
Amp 1.505
Phase -171.4
PFD 1.0e-09
Delays (us)
SBD 0.922803
MBD -0.000005
Fringe rate (Hz)
-0.764219
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051952
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-69.0
0.4
1581.3
U/L 586/0
B 0
o 0
B:o 0:0
B:o 0:0
B 1000
o 1000
B W03UR
o W03UR

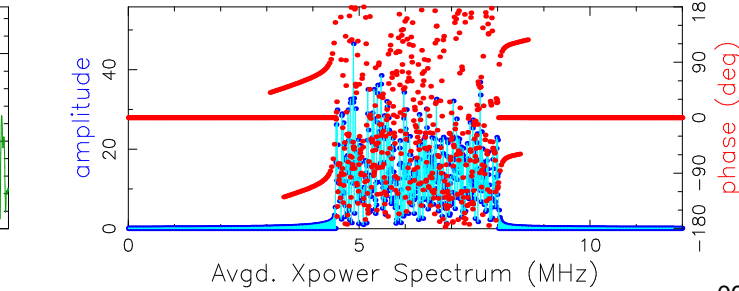
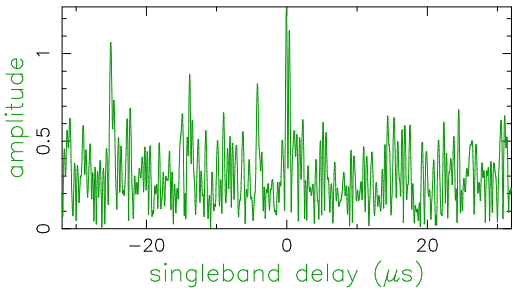
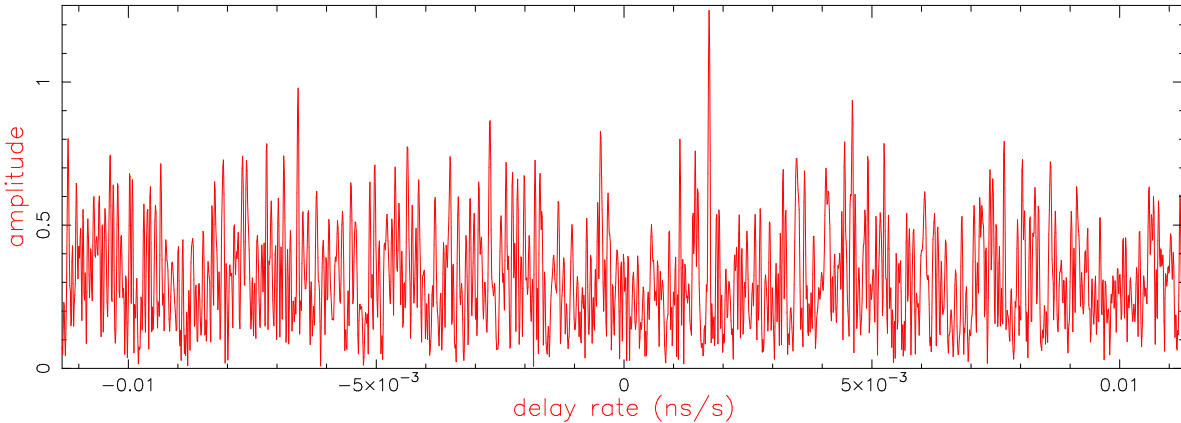
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.15076617565E+04	Apriori delay (usec)	-1.15085845595E+04	Resid mbdelay (usec)	-5.33837E-06	+/- 5.5E-03
Sband delay (usec)	-1.15076617569E+04	Apriori clock (usec)	-2.5823000E+01	Resid sbdelay (usec)	9.22803E-01	+/- 5.5E-03
Phase delay (usec)	-1.15085845618E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.22644E-06	+/- 4.4E-07
Delay rate (us/s)	-1.30286340898E+00	Apriori rate (us/s)	-1.30285453715E+00	Resid rate (us/s)	-8.87183E-06	+/- 2.5E-09
Total phase (deg)	-156.3	Apriori accel (us/s/s)	7.17038251515E-05	Resid phase (deg)	-171.4	+/- 13.7

ph/seg (deg)	RMS 92.6	Theor. 117.2	Amplitude Search (2048X8)	1.505 +/- 0.180	1.133	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	82.1	204.6	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Inc. seg. avg.	0.676	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.8	12.0	Inc. frq. avg.	1.488	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
					nlags: 1536 t_cohere infinite		ion window (TEC) 0.00 0.00

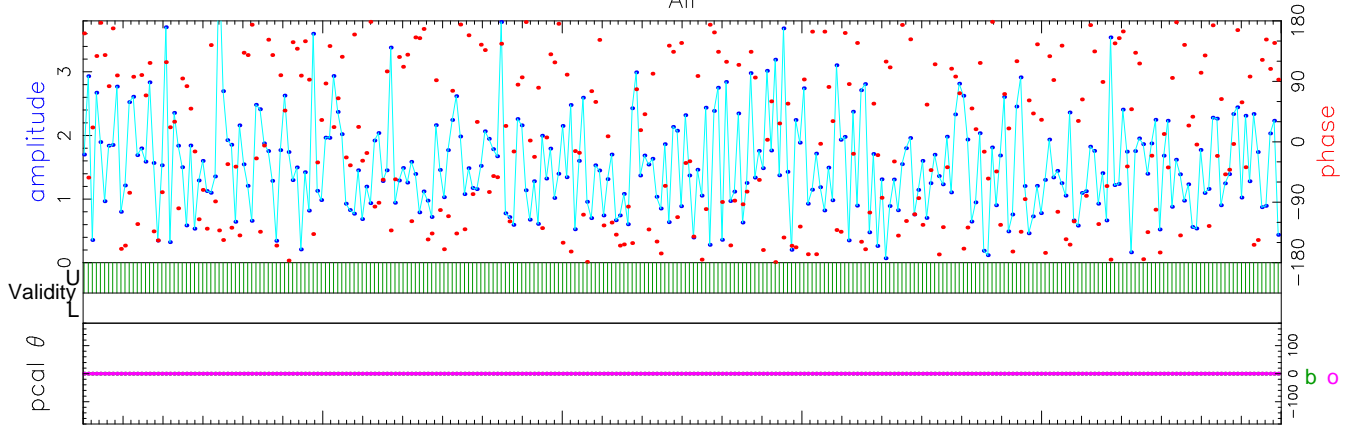
B: az 297.1 el 22.7 pa 43.3 o: az 87.7 el 65.8 pa -74.9 u,v (fr/asec) 9141.568 5013.208 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Bo..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Bo.W.55.1T5GV4

Fringe quality 8



SNR 9.1
Int time 299.957
Amp 1.267
Phase 105.2
PFD 1.6e-12
Delays (us)
SBD -0.055328
MBD 0.000005
Fringe rate (Hz)
0.147615
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051952
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
172.2
0.4
1534.3
U/L 586/0
b 0
o 0
b:o 0:0
b:o 0:0
b 1000
o 1000
b W03UR
o W03UR

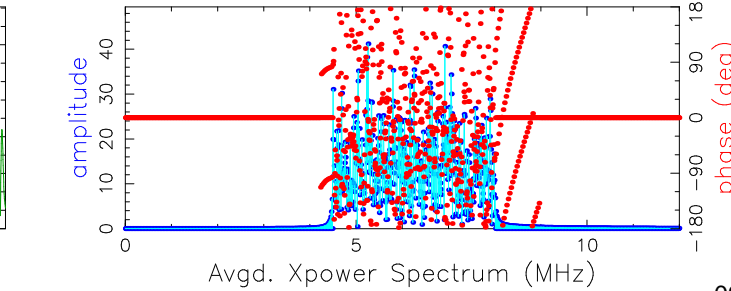
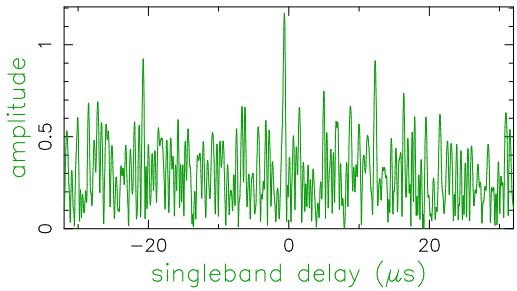
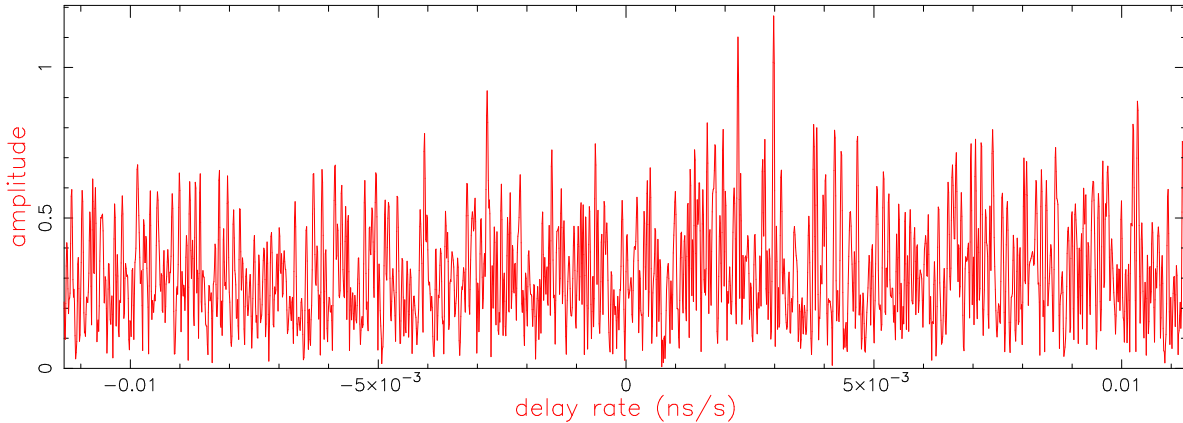
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.51630206729E+02	Apriori delay (usec)	-4.51574880973E+02	Resid mbdelay (usec)	4.94026E-06	+/-	5.0E-03
Sband delay (usec)	-4.51630208973E+02	Apriori clock (usec)	-6.7457809E+00	Resid sbdelay (usec)	-5.53280E-02	+/-	5.0E-03
Phase delay (usec)	-4.51574875420E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	5.55307E-06	+/-	4.1E-07
Delay rate (us/s)	-6.11722609199E-02	Apriori rate (us/s)	-6.11739745871E-02	Resid rate (us/s)	1.71367E-06	+/-	2.3E-09
Total phase (deg)	16.2	Apriori accel (us/s/s)	1.12696343782E-05	Resid phase (deg)	105.2	+/-	12.6

ph/seg (deg)	RMS 92.2	Theor. 107.7	Amplitude Search (2048X8)	1.237	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	65.6	188.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.3	Inc. seg. avg.	0.562	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.8	11.0	Inc. frq. avg.	1.254	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

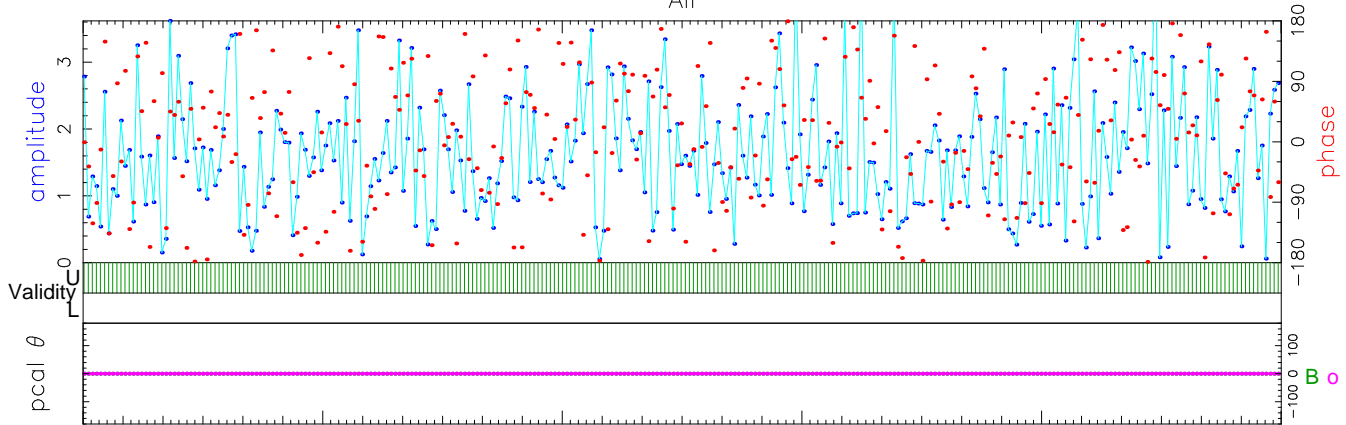
b: az 109.2 el 63.1 pa -50.1 o: az 87.7 el 65.8 pa -74.9 u,v (fr/asec) 438.768 1624.117 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bo..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bo.W.64.1T5GV4

Fringe quality 8



SNR 8.5
Int time 299.972
Amp 1.207
Phase 48.8
PFD 3.2e-10
Delays (us)
SBD -0.632515
MBD 0.000004
Fringe rate (Hz)
0.256674
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051953
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
38.4
0.4
1506.6
U/L 586/0
B 0
o 0
B:o 0:0
B:o 0:0
B 1000
o 1000
B W03UL
o W03UR

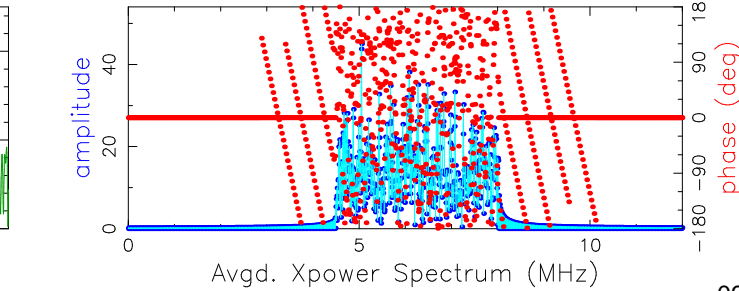
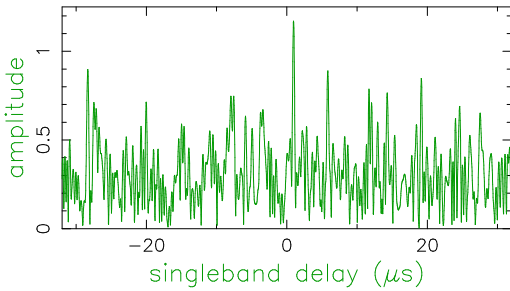
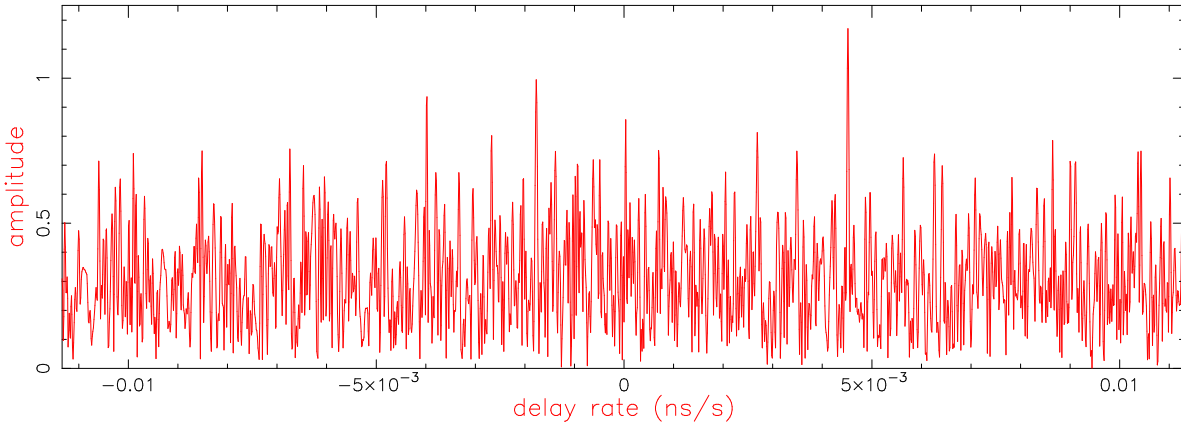
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.15092170717E+04	Apriori delay (usec)	-1.15085845595E+04	Resid mbdelay (usec)	4.36654E-06	+/-	5.4E-03
Sband delay (usec)	-1.15092170742E+04	Apriori clock (usec)	-2.5823000E+01	Resid sbdelay (usec)	-6.32515E-01	+/-	5.4E-03
Phase delay (usec)	-1.15085845583E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.23741E-06	+/-	4.3E-07
Delay rate (us/s)	-1.30285155742E+00	Apriori rate (us/s)	-1.30285453715E+00	Resid rate (us/s)	2.97973E-06	+/-	2.5E-09
Total phase (deg)	63.9	Apriori accel (us/s/s)	7.17038251515E-05	Resid phase (deg)	48.8	+/-	13.5

ph/seg (deg)	RMS 93.8	Theor. 115.4	Amplitude Search (2048X8)	1.207 +/- 0.142	1.165	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	86.0	201.3	Interp.	0.000	1.165	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.554	1.165	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.8	Inc. frq. avg.	1.197	1.197	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

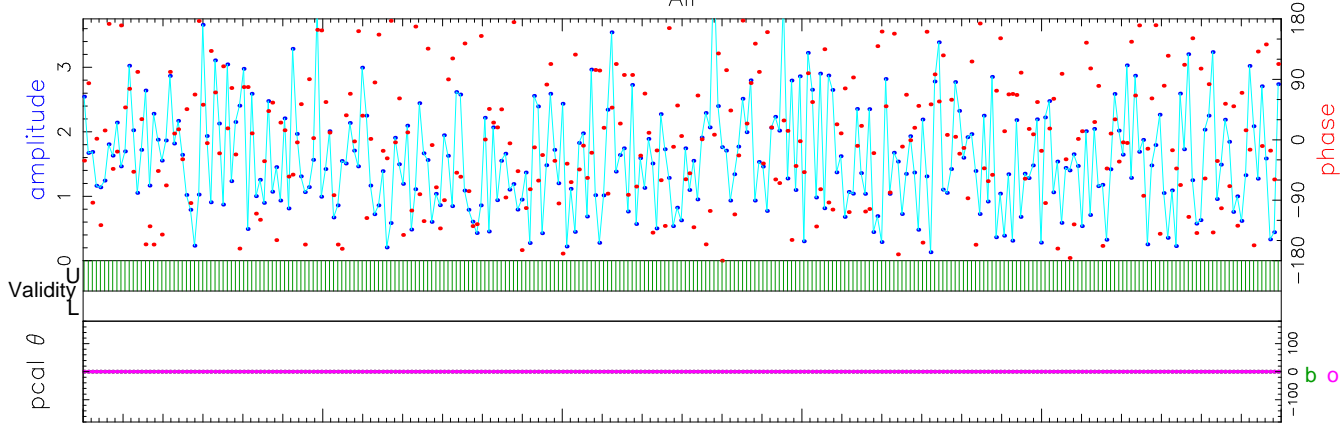
B: az 297.1 el 22.7 pa 43.3 o: az 87.7 el 65.8 pa -74.9 u,v (fr/asec) 9141.568 5013.208 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Bo..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Bo.W.68.1T5GV4

Fringe quality 8



SNR 8.5
Int time 299.956
Amp 1.251
Phase -120.0
PFD 3.5e-10
Delays (us)
SBD 0.957985
MBD 0.000007
Fringe rate (Hz)
0.388960
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051953
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
4.0
0.4
1583.0
U/L 586/0
b 0
o 0
b:o 0:0
b:o 0:0
b 1000
o 1000
b W03UL
o W03UR

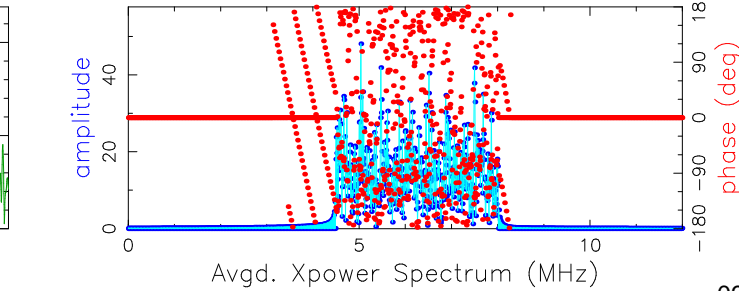
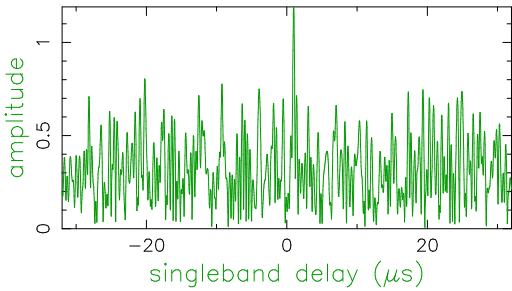
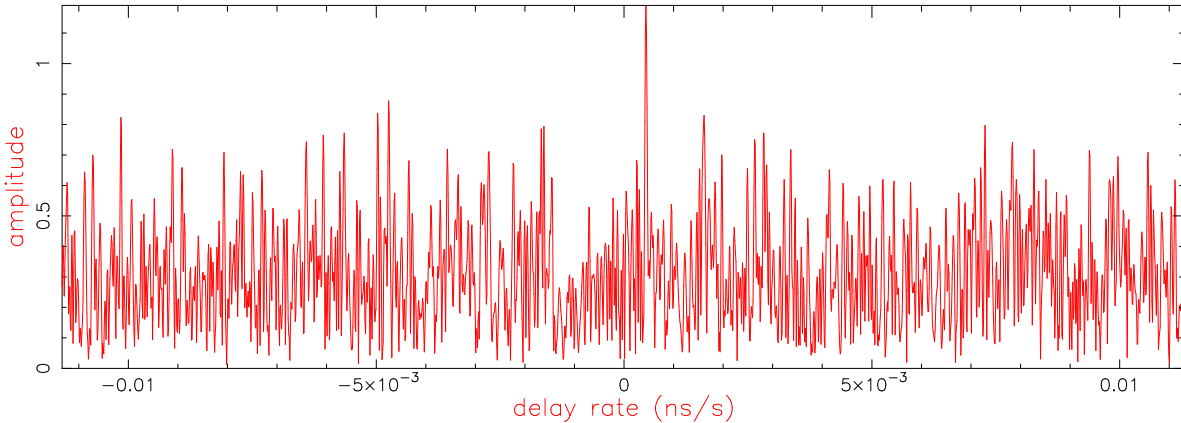
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.50616890736E+02	Apriori delay (usec)	-4.51574880973E+02	Resid mbdelay (usec)	7.23873E-06	+/-	5.4E-03
Sband delay (usec)	-4.50616895639E+02	Apriori clock (usec)	-6.7457809E+00	Resid sbdelay (usec)	9.57985E-01	+/-	5.4E-03
Phase delay (usec)	-4.51574880843E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	1.30142E-07	+/-	4.4E-07
Delay rate (us/s)	-6.11694591428E-02	Apriori rate (us/s)	-6.11739745871E-02	Resid rate (us/s)	4.51544E-06	+/-	2.5E-09
Total phase (deg)	-208.9	Apriori accel (us/s/s)	1.12696343782E-05	Resid phase (deg)	-120.0	+/-	13.5

ph/seg (deg)	RMS 92.4	Theor. 115.5	Amplitude 1.251 +/- 0.147	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	78.3	201.6	Search (2048X8) 1.161	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.8	Inc. seg. avg. 0.556	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.242	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

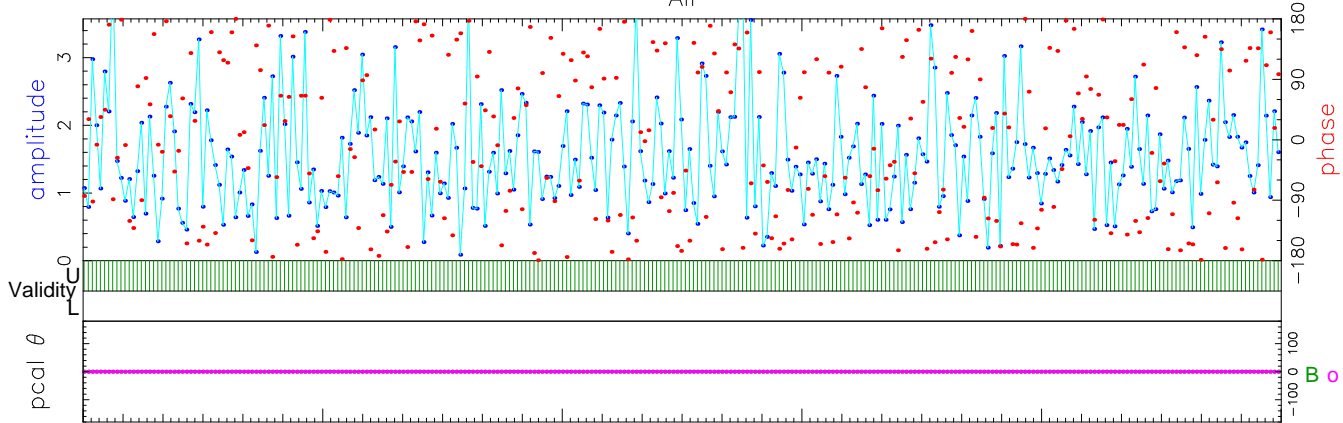
b: az 109.2 el 63.1 pa -50.1 o: az 87.7 el 65.8 pa -74.9 u,v (fr/asec) 438.768 1624.117 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bo..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bo.W.74.1T5GV4

Fringe quality 8



SNR 8.6
Int time 299.972
Amp 1.191
Phase -166.4
PFD 1.1e-10
Delays (us)
SBD 0.976539
MBD 0.000006
Fringe rate (Hz)
0.038175
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051954
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
178.4
0.3
1583.9
U/L 586/0
B 0
o 0
B:o 0:0
B:o 0:0
B 1000
o 1000
B W03UR
o W03UL

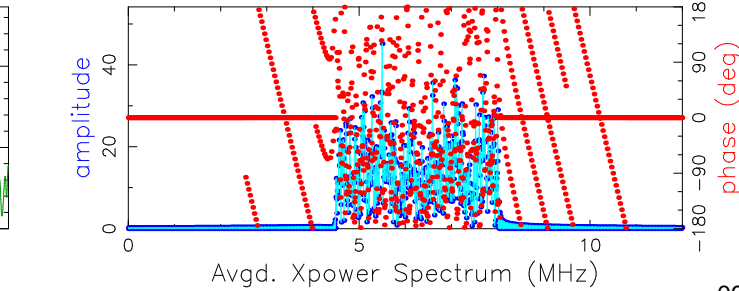
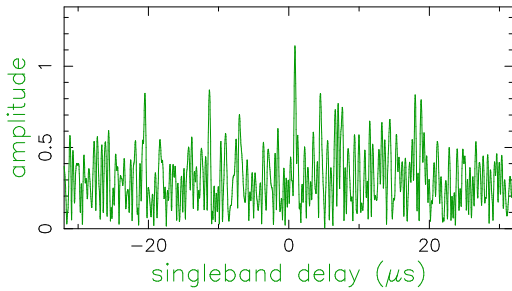
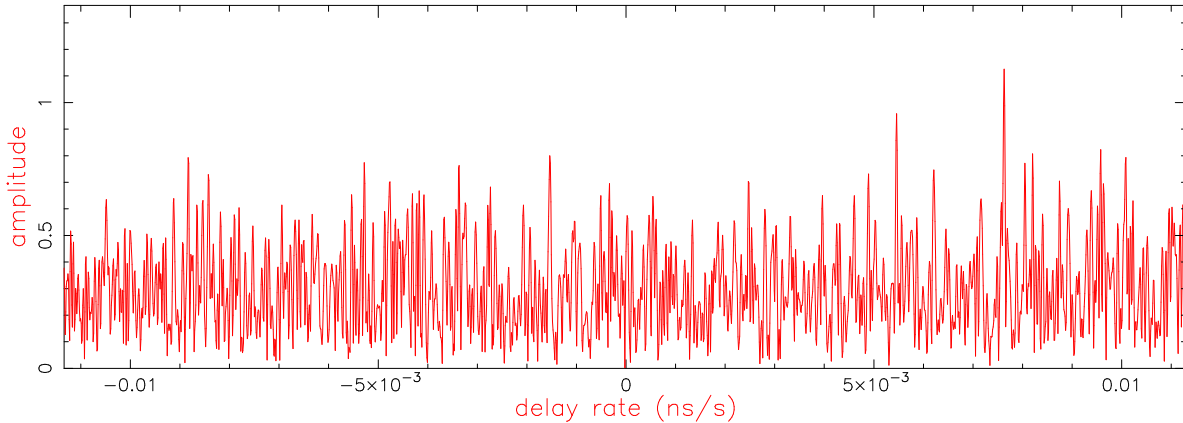
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.15076080261E+04	Apriori delay (usec)	-1.15085845595E+04	Resid mbdelay (usec)	6.32025E-06	+/-	5.3E-03
Sband delay (usec)	-1.15076080209E+04	Apriori clock (usec)	-2.5823000E+01	Resid sbdelay (usec)	9.76539E-01	+/-	5.3E-03
Phase delay (usec)	-1.15085845538E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.75238E-06	+/-	4.3E-07
Delay rate (us/s)	-1.30285409398E+00	Apriori rate (us/s)	-1.30285453715E+00	Resid rate (us/s)	4.43173E-07	+/-	2.5E-09
Total phase (deg)	-151.3	Apriori accel (us/s/s)	7.17038251515E-05	Resid phase (deg)	-166.4	+/-	13.3

ph/seg (deg)	92.8	Theor.	113.6	Amplitude	1.191 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.4	Search (2048X8)	1.183	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.527	Inc. frq. avg.	1.183	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	Inc. frq. avg.	1.183			Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

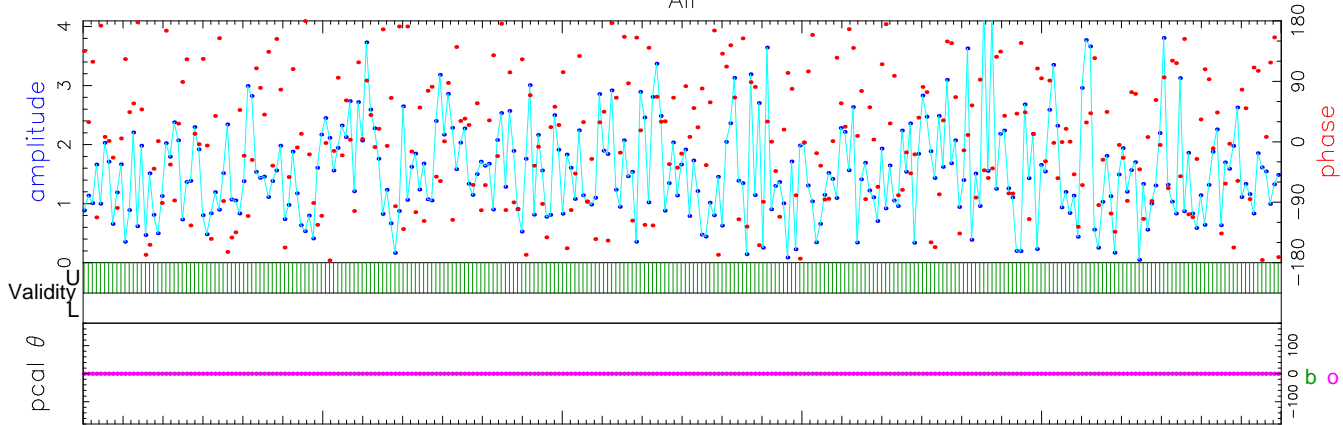
B: az 297.1 el 22.7 pa 43.3 o: az 87.7 el 65.8 pa -74.9 u,v (fr/asec) 9141.568 5013.208 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Bo..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Bo.W.80.1T5GV4

Fringe quality 8



SNR 8.2
Int time 299.957
Amp 1.366
Phase -74.1
PFD 5.5e-09
Delays (us)
SBD 0.876595
MBD 0.000007
Fringe rate (Hz)
0.656471
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051955
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



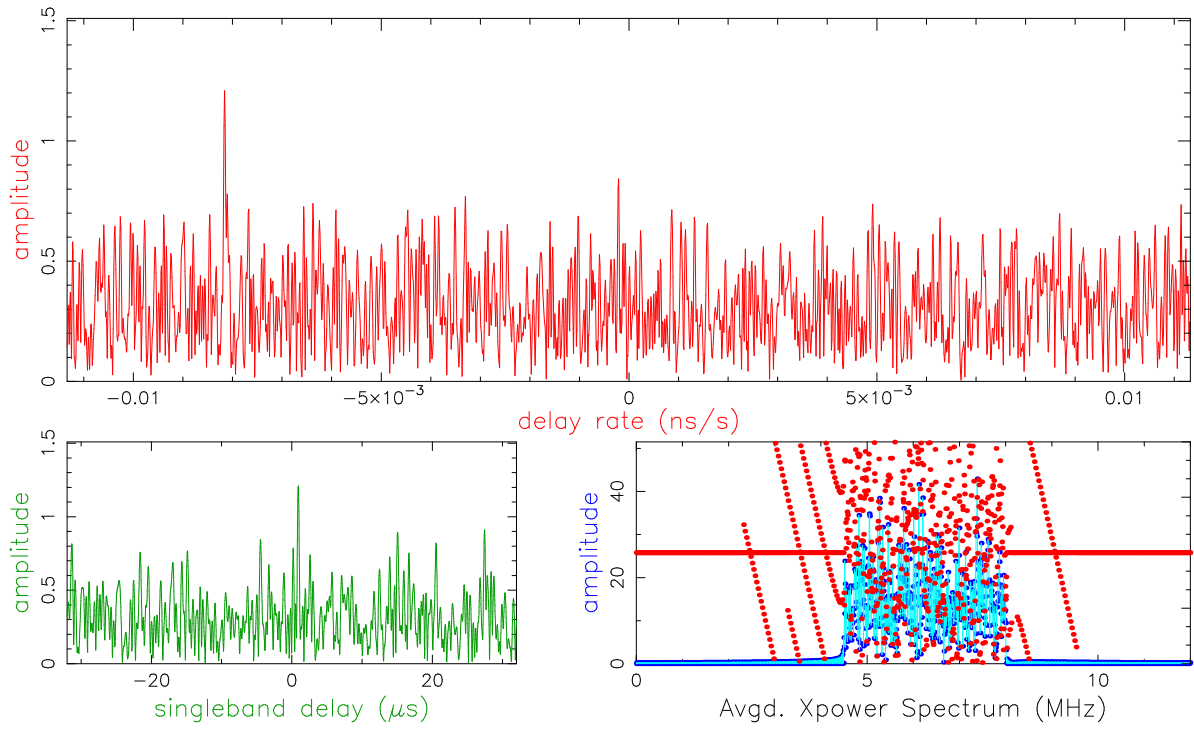
86227.00
20.8
0.4
1579.1
U/L 586/0
b 0
o 0
b:o 0:0
b:o 0:0
b 1000
o 1000
b W03UR
o W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.50698280788E+02	Apriori delay (usec)	-4.51574880973E+02	Resid mbdelay (usec)	7.00671E-06	+/-	5.6E-03
Sband delay (usec)	-4.50698286306E+02	Apriori clock (usec)	-6.7457809E+00	Resid sbdelay (usec)	8.76595E-01	+/-	5.6E-03
Phase delay (usec)	-4.51574880302E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	6.71124E-07	+/-	4.5E-07
Delay rate (us/s)	-6.11663536085E-02	Apriori rate (us/s)	-6.11739745871E-02	Resid rate (us/s)	7.62098E-06	+/-	2.6E-09
Total phase (deg)	-163.0	Apriori accel (us/s/s)	1.12696343782E-05	Resid phase (deg)	-74.1	+/-	14.0

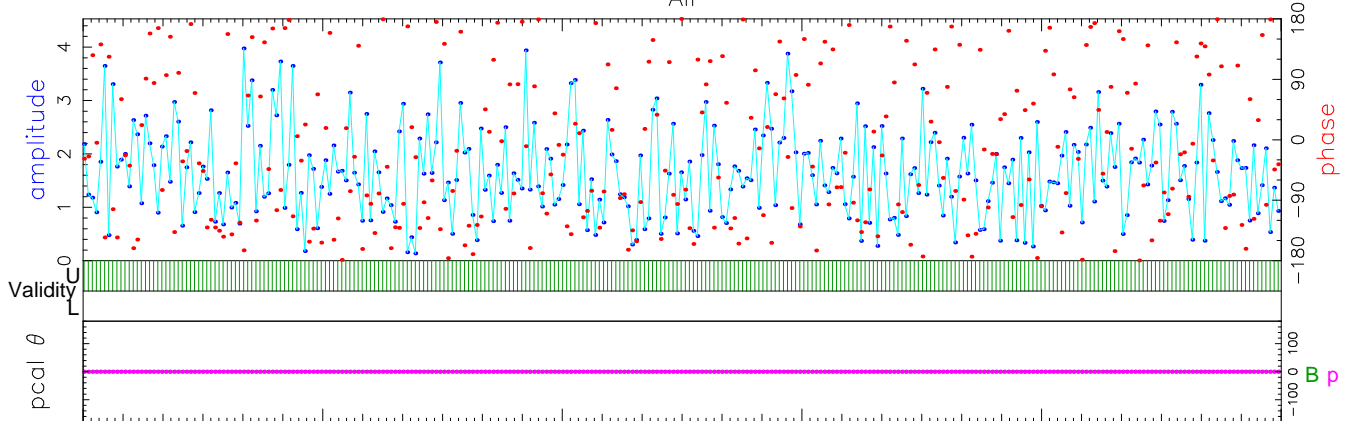
ph/seg (deg)	93.6	Theor.	120.2	Amplitude	1.366 +/- 0.167	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	82.0	Search (2048X8)	1.101	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.592	Inc. frq. avg.	1.355	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	Inc. frq. avg.	1.355	Sample rate(MISamp/s): 24		Data rate(Mb/s): 48	mb window (us) -0.000 0.000
							dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

b: az 109.2 el 63.1 pa -50.1 o: az 87.7 el 65.8 pa -74.9 u,v (fr/asec) 438.768 1624.117 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bo..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bo.W.88.1T5GV4



Fringe quality 8
SNR 8.8
Int time 299.972
Amp 1.510
Phase -21.7
PFD 3.2e-11
Delays (us)
SBD 0.915977
MBD -0.000006
Fringe rate (Hz)
-0.701848
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051952
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-133.3
0.4
1581.0
U/L 586/0
B 0
p 0
B:p 0:0
B:p 0:0
B 1000
p 1000
B W03UL
p W03UL

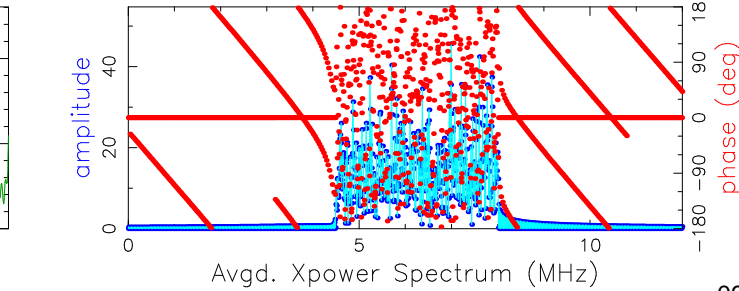
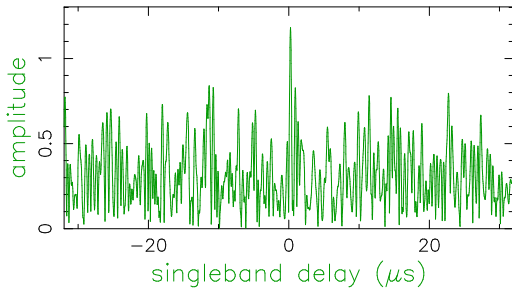
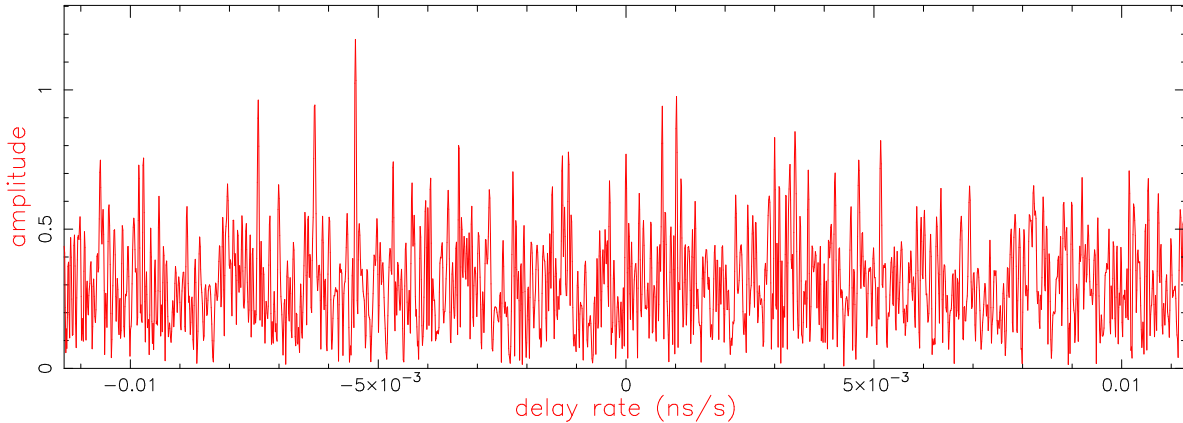
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.25100604223E+04	Apriori delay (usec)	-1.25109763942E+04	Resid mbdelay (usec)	-5.63675E-06	+/-	5.2E-03
Sband delay (usec)	-1.25100604169E+04	Apriori clock (usec)	-2.7599001E+01	Resid sbdelay (usec)	9.15977E-01	+/-	5.2E-03
Phase delay (usec)	-1.25109763985E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.29910E-06	+/-	4.2E-07
Delay rate (us/s)	-1.14980847456E+00	Apriori rate (us/s)	-1.14980032680E+00	Resid rate (us/s)	-8.14776E-06	+/-	2.4E-09
Total phase (deg)	-237.7	Apriori accel (us/s/s)	7.96632586077E-05	Resid phase (deg)	-21.7	+/-	13.1

ph/seg (deg)	RMS 91.9	Theor. 111.9	Amplitude Search (2048X8)	1.510 +/- 0.172	1.208	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.6	195.2	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Inc. seg. avg.	0.710	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.4	Inc. frq. avg.	1.500	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

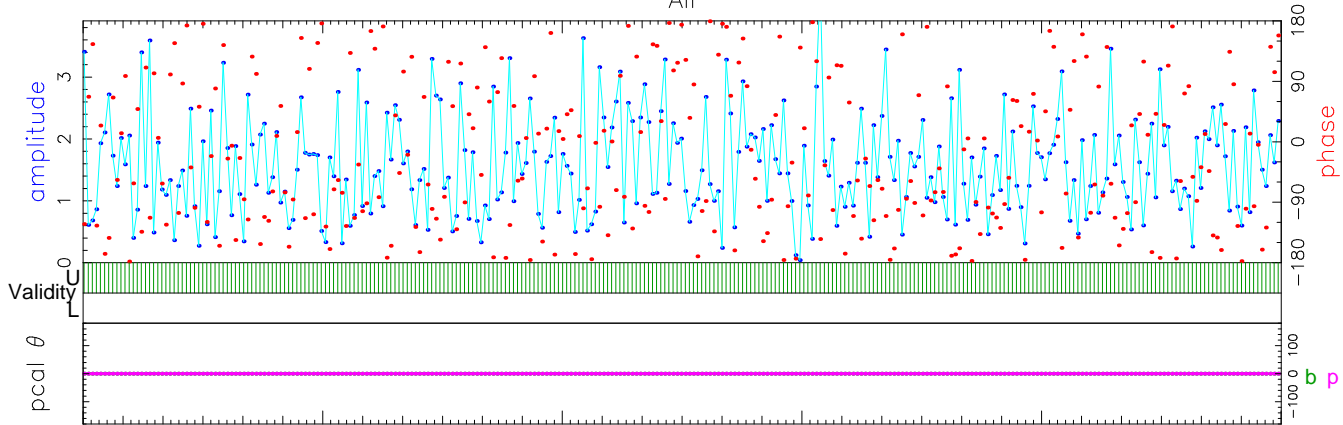
B: az 297.1 el 22.7 pa 43.3 p: az 84.0 el 73.9 pa -85.4 u,v (fr/asec) 8089.588 5751.724 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Bp..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Bp.W.59.1T5GV4

Fringe quality 8



SNR 8.6
Int time 299.955
Amp 1.303
Phase -358.3
PFD 1.7e-10
Delays (us)
SBD 0.237275
MBD -0.000005
Fringe rate (Hz)
-0.470003
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051953
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-126.7
0.4
1548.4
U/L 586/0
b 0
p 0
b:p 0:0
b:p 0:0
b 1000
p 1000
b W03UL
p W03UL

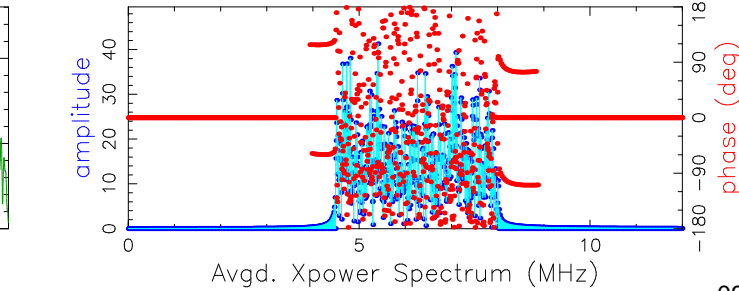
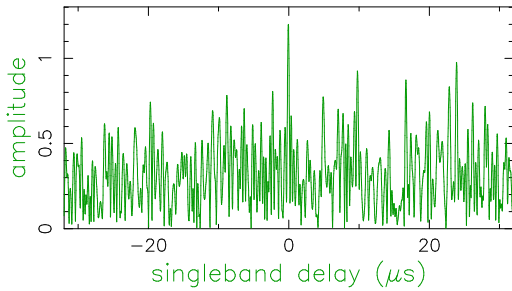
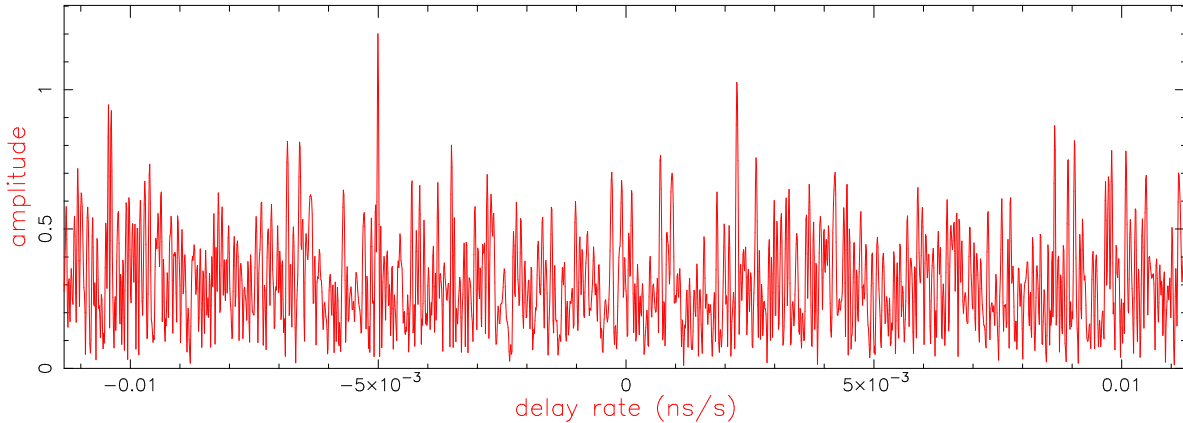
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.45372943978E+03	Apriori delay (usec)	-1.45396671568E+03	Resid mbdelay (usec)	-4.76185E-06	+/-	5.4E-03
Sband delay (usec)	-1.45372944101E+03	Apriori clock (usec)	-8.5217819E+00	Resid sbdelay (usec)	2.37275E-01	+/-	5.4E-03
Phase delay (usec)	-1.45396671976E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-4.08433E-06	+/-	4.3E-07
Delay rate (us/s)	9.18747794876E-02	Apriori rate (us/s)	9.18802357589E-02	Resid rate (us/s)	-5.45627E-06	+/-	2.5E-09
Total phase (deg)	-318.2	Apriori accel (us/s/s)	1.92290678343E-05	Resid phase (deg)	-358.3	+/-	13.4

ph/seg (deg)	RMS 94.3	Theor. 114.4	Amplitude Search (2048X8)	1.303 +/- 0.152	1.176	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	76.1	199.6	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.582	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.7	Inc. frq. avg.	1.293	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

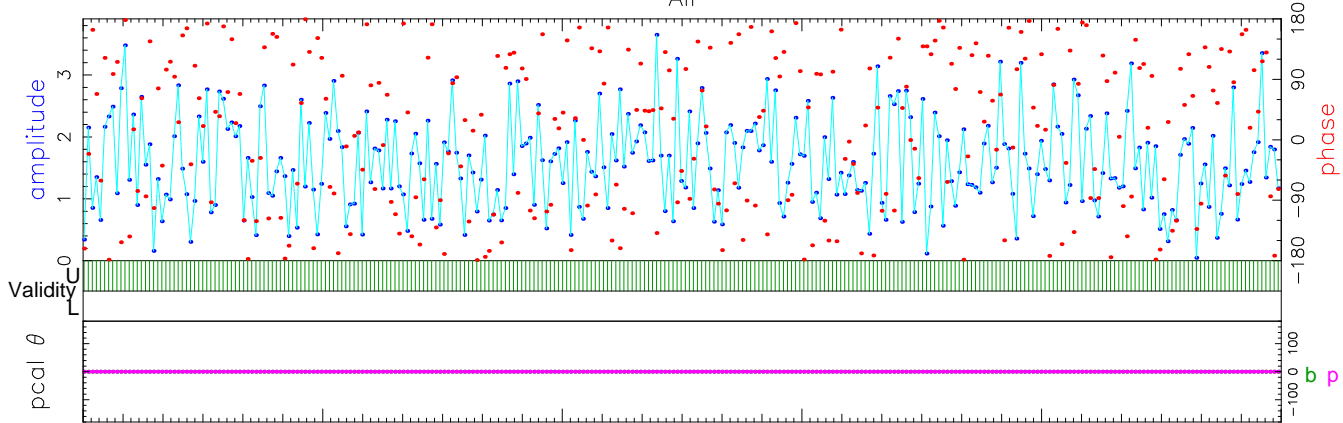
b: az 109.2 el 63.1 pa -50.1 p: az 84.0 el 73.9 pa -85.4 u,v (fr/asec) -613.212 2362.632 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bp..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bp.W.67.1T5GV4

Fringe quality 8



SNR 8.7
Int time 299.956
Amp 1.303
Phase 68.1
PFD 5.5e-11
Delays (us)
SBD -0.066837
MBD -0.000005
Fringe rate (Hz)
-0.431016
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051953
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



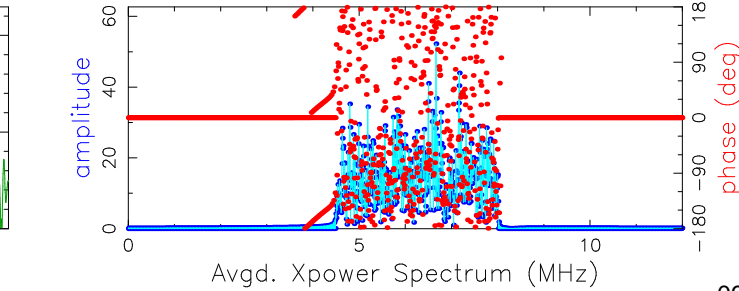
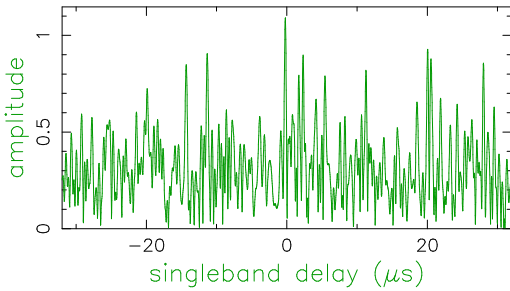
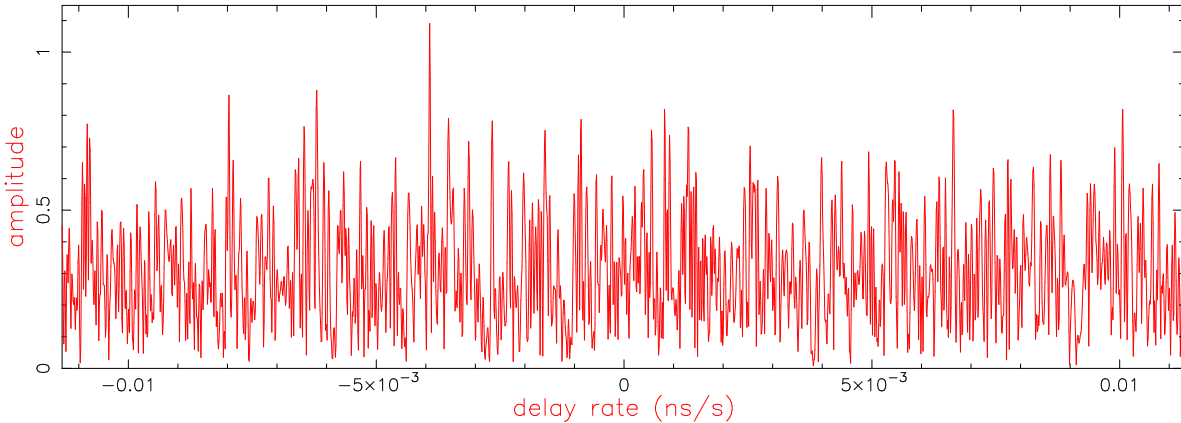
86227.00
134.8
0.4
1533.8
U/L 586/0
b 0
p 0
b:p 0:0
b:p 0:0
b 1000
p 1000
b W03UR
p W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.4540335559E+03	Apriori delay (usec)	-1.45396671568E+03	Resid mbdelay (usec)	-4.69904E-06	+/-	5.3E-03
Sband delay (usec)	-1.45403355301E+03	Apriori clock (usec)	-8.5217819E+00	Resid sbdelay (usec)	-6.68373E-02	+/-	5.3E-03
Phase delay (usec)	-1.45396671133E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	4.34828E-06	+/-	4.2E-07
Delay rate (us/s)	9.18752320937E-02	Apriori rate (us/s)	9.18802357589E-02	Resid rate (us/s)	-5.00367E-06	+/-	2.4E-09
Total phase (deg)	108.2	Apriori accel (us/s/s)	1.92290678343E-05	Resid phase (deg)	68.1	+/-	13.2

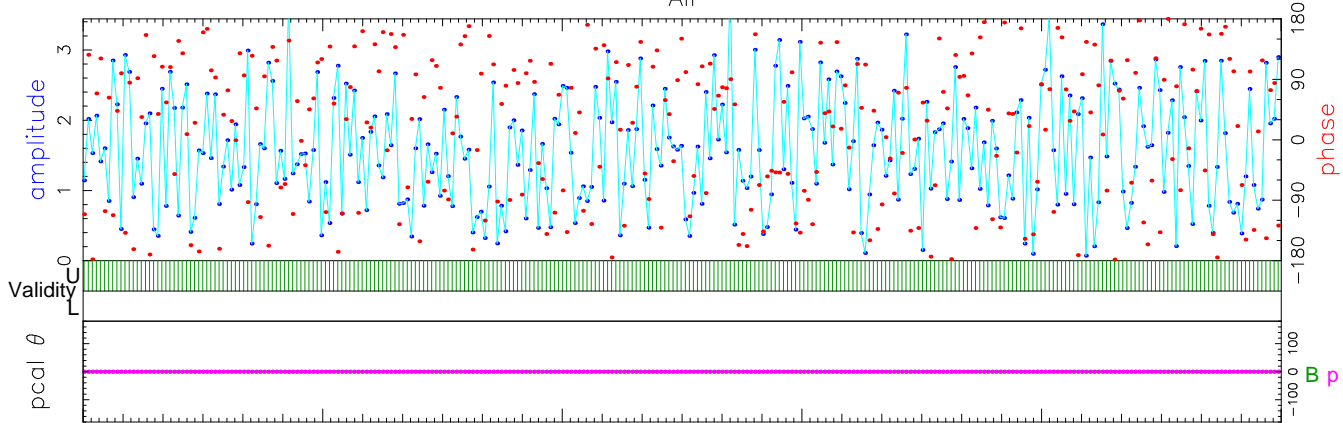
ph/seg (deg)	RMS 92.0	Theor. 112.6	Amplitude Search (2048X8)	1.303 +/- 0.150	1.193	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	69.1	196.6	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.587	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.5	Inc. frq. avg.	1.294	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
b: az 109.2 el 63.1 pa -50.1	p: az 84.0 el 73.9 pa -85.4		u,v (fr/asec) -613.212 2362.632		ion window (TEC) 0.00 0.00		

Fringe quality 8



SNR 7.9
Int time 299.972
Amp 1.148
Phase 66.7
PFD 3.8e-08
Delays (us)
SBD -0.216791
MBD -0.000007
Fringe rate (Hz)
-0.337464
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051954
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
116.9
0.3
1526.6
U/L 586/0
B 0
p 0
B:p 0:0
B:p 0:0
B 1000
p 1000
B W03UR
p W03UR

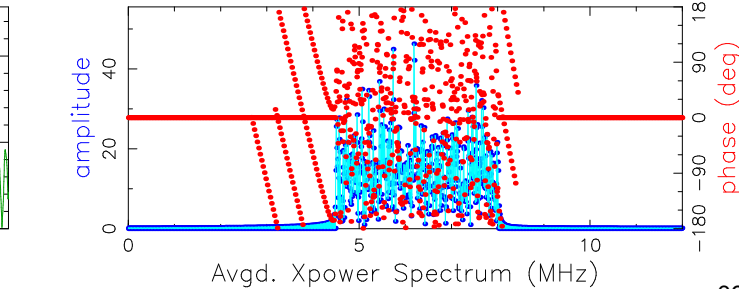
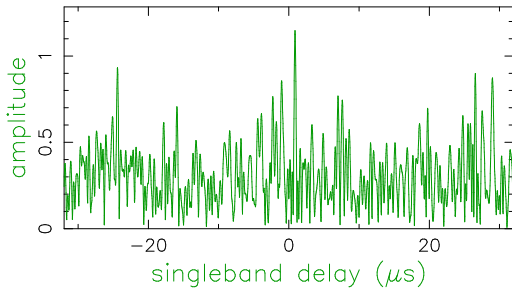
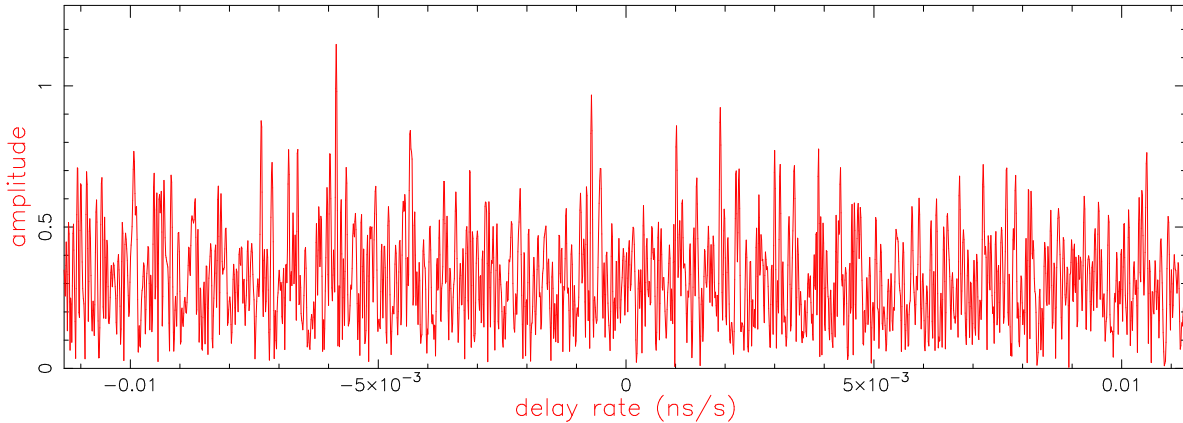
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.25111931892E+04	Apriori delay (usec)	-1.25109763942E+04	Resid mbdelay (usec)	-6.69034E-06	+/-	5.8E-03
Sband delay (usec)	-1.25111931849E+04	Apriori clock (usec)	-2.7599001E+01	Resid sbdelay (usec)	-2.16791E-01	+/-	5.8E-03
Phase delay (usec)	-1.25109763905E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.76858E-06	+/-	4.7E-07
Delay rate (us/s)	-1.14980424443E+00	Apriori rate (us/s)	-1.14980032680E+00	Resid rate (us/s)	-3.91763E-06	+/-	2.7E-09
Total phase (deg)	210.8	Apriori accel (us/s/s)	7.96632586077E-05	Resid phase (deg)	66.7	+/-	14.5

ph/seg (deg)	RMS 92.3	Theor. 123.8	Amplitude Search (2048X8)	1.148 +/- 0.145	1.080	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	85.6	216.1	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.495	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.6	Inc. frq. avg.	1.137	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
					nlags: 1536	t_cohere infinite	ion window (TEC) 0.00 0.00

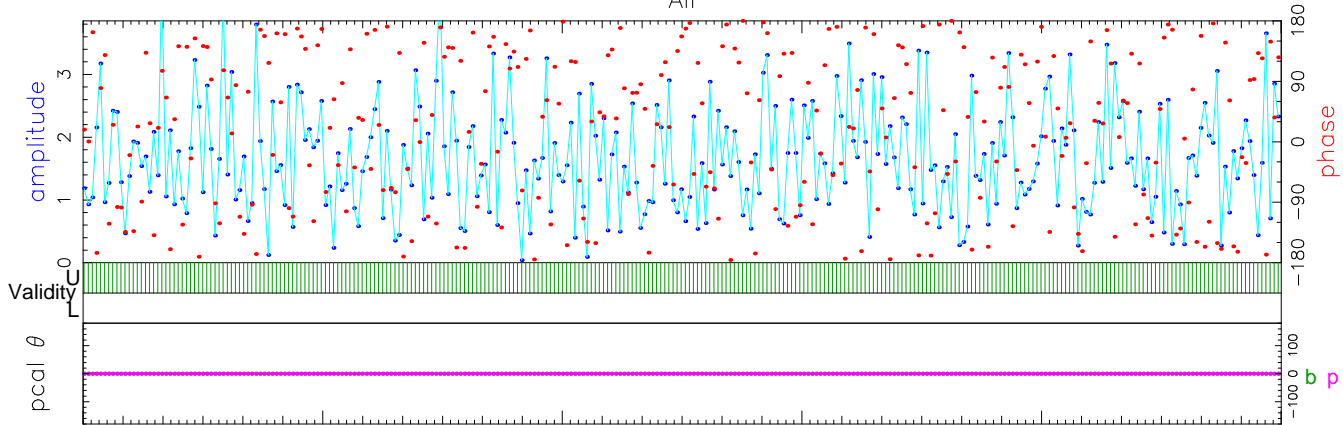
B: az 297.1 el 22.7 pa 43.3 p: az 84.0 el 73.9 pa -85.4 u,v (fr/asec) 8089.588 5751.724 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Bp..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Bp.W.76.1T5GV4

Fringe quality 8



SNR 8.3
Int time 299.955
Amp 1.285
Phase -201.3
PFD 1.4e-09
Delays (us)
SBD 0.884616
MBD -0.000005
Fringe rate (Hz)
-0.503486
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051954
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
144.9
0.4
1579.5
U/L 586/0
b 0
p 0
b:p 0:0
b:p 0:0
b 1000
p 1000
b W03UL
p W03UR

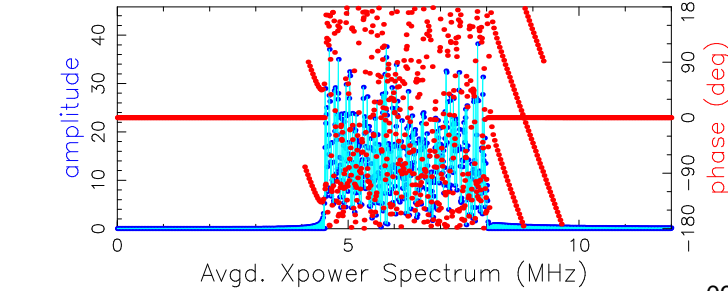
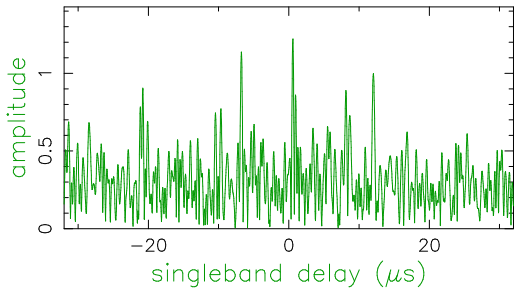
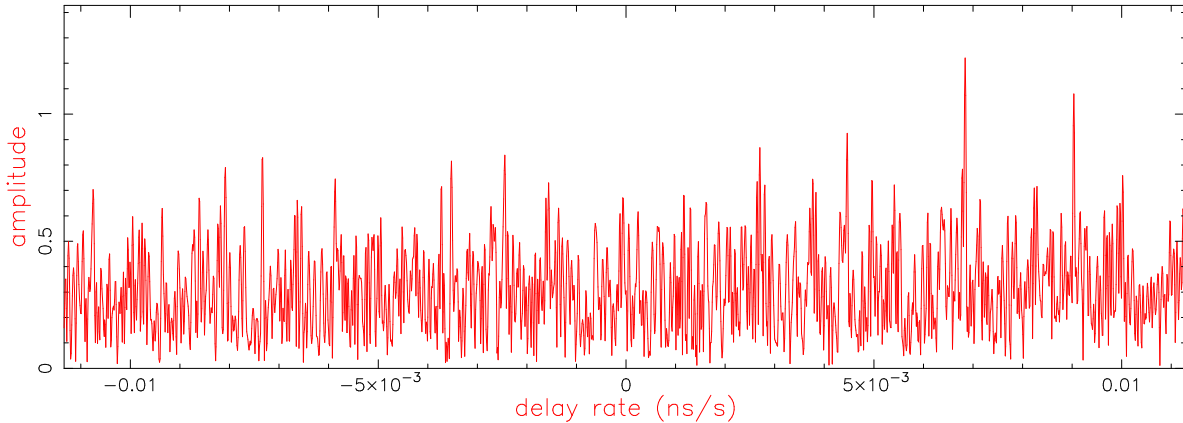
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.45308210246E+03	Apriori delay (usec)	-1.45396671568E+03	Resid mbdelay (usec)	-5.28688E-06	+/-	5.5E-03
Sband delay (usec)	-1.45308209968E+03	Apriori clock (usec)	-8.5217819E+00	Resid sbdelay (usec)	8.84616E-01	+/-	5.5E-03
Phase delay (usec)	-1.45396671101E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	4.67360E-06	+/-	4.4E-07
Delay rate (us/s)	9.18743907850E-02	Apriori rate (us/s)	9.18802357589E-02	Resid rate (us/s)	-5.84497E-06	+/-	2.6E-09
Total phase (deg)	-161.3	Apriori accel (us/s/s)	1.92290678343E-05	Resid phase (deg)	-201.3	+/-	13.8

ph/seg (deg)	RMS 92.8	Theor. 117.7	Amplitude Search (2048X8)	1.285 +/- 0.154	1.142	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	87.5	205.5	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.599	Sample rate(MISamp/s): 24	ion window (TEC)	0.00 0.00
amp/frq (%)	70.8	12.0	Inc. frq. avg.	1.273	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	

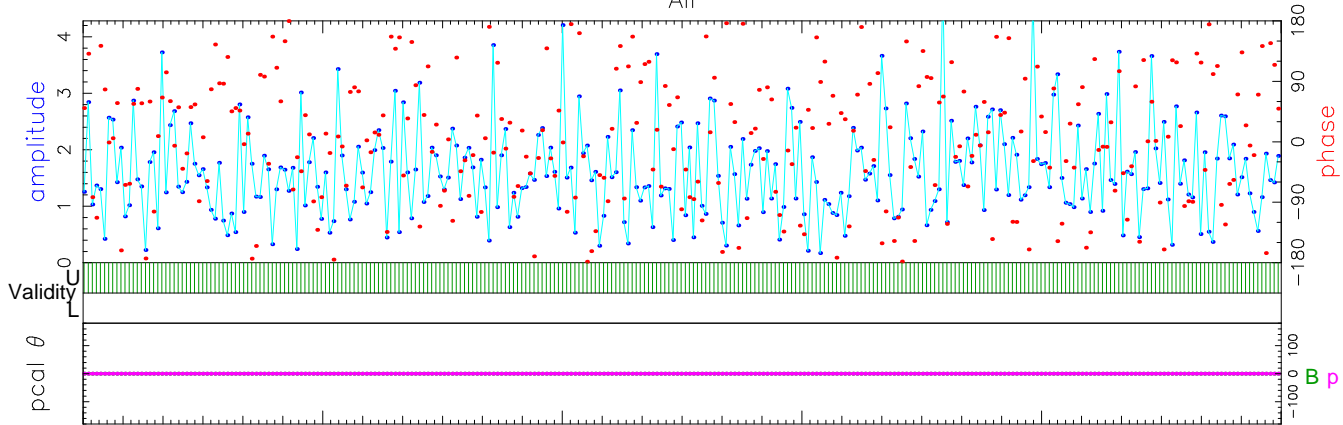
b: az 109.2 el 63.1 pa -50.1 p: az 84.0 el 73.9 pa -85.4 u,v (fr/asec) -613.212 2362.632 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bp..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bp.W.79.1T5GV4

Fringe quality 8



SNR 8.9
Int time 299.972
Amp 1.428
Phase -335.8
PFD 1.3e-11
Delays (us)
SBD 0.574520
MBD 0.000005
Fringe rate (Hz)
0.589245
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051955
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
18.2
0.4
1564.6
U/L 586/0
B 0
p 0
B:p 0:0
B:p 0:0
B 1000
p 1000
B W03UL
p W03UR

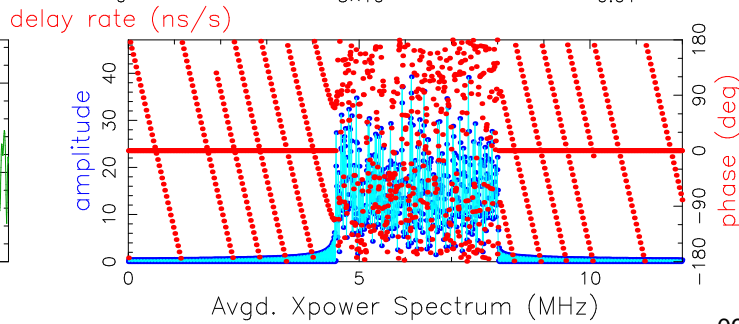
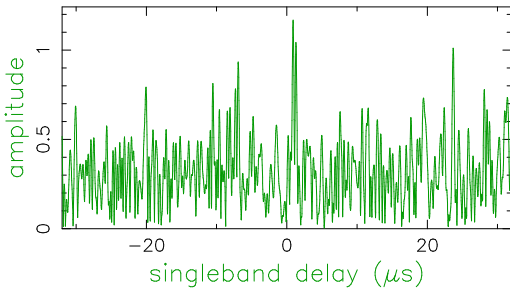
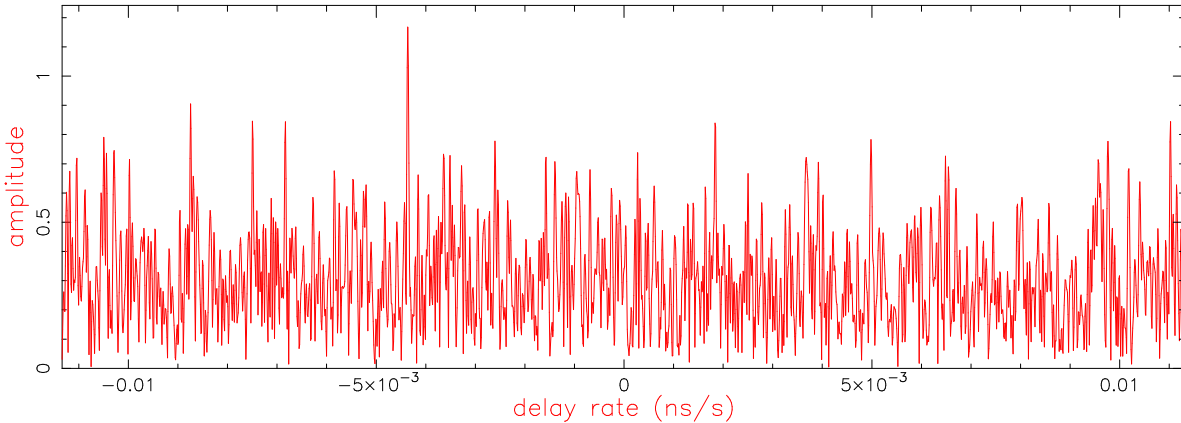
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.25104018712E+04	Apriori delay (usec)	-1.25109763942E+04	Resid mbdelay (usec)	4.58645E-06	+/-	5.2E-03
Sband delay (usec)	-1.25104018742E+04	Apriori clock (usec)	-2.7599001E+01	Resid sbdelay (usec)	5.74520E-01	+/-	5.2E-03
Phase delay (usec)	-1.25109763937E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.85632E-07	+/-	4.2E-07
Delay rate (us/s)	-1.14979348625E+00	Apriori rate (us/s)	-1.14980032680E+00	Resid rate (us/s)	6.84056E-06	+/-	2.4E-09
Total phase (deg)	-191.7	Apriori accel (us/s/s)	7.96632586077E-05	Resid phase (deg)	-335.8	+/-	12.9

ph/seg (deg)	RMS 92.4	Theor. 110.6	Amplitude Search (2048X8)	1.428 +/- 0.161	1.211	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	74.7	193.0	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Inc. seg. avg.	0.661	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.8	11.3	Inc. frq. avg.	1.416	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
					nlags: 1536 t_cohere infinite		ion window (TEC) 0.00 0.00

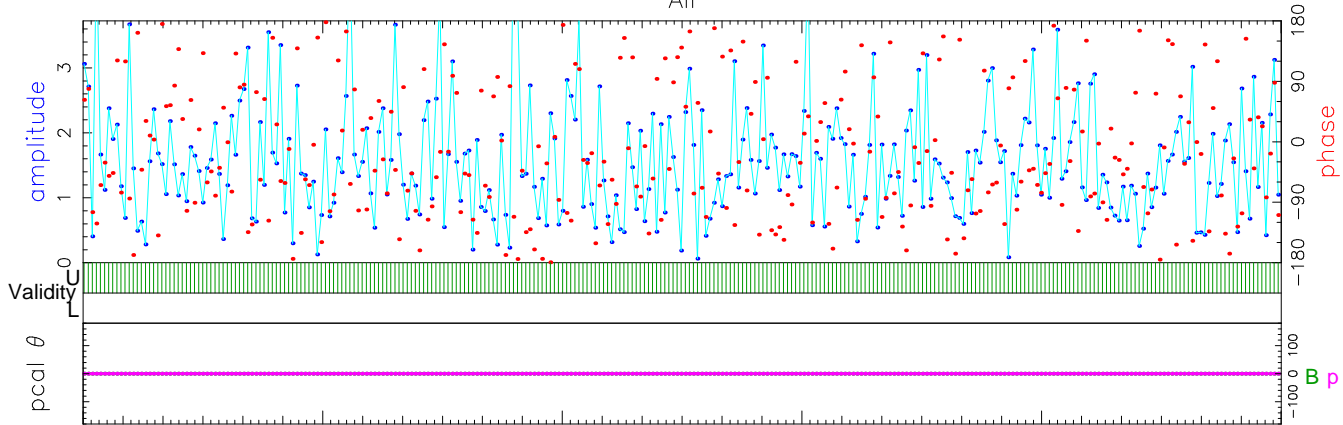
B: az 297.1 el 22.7 pa 43.3 p: az 84.0 el 73.9 pa -85.4 u,v (fr/asec) 8089.588 5751.724 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Bp..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Bp.W.86.1T5GV4

Fringe quality 8



SNR 8.5
Int time 299.972
Amp 1.242
Phase -342.1
PFD 4.3e-10
Delays (us)
SBD 0.893893
MBD -0.000006
Fringe rate (Hz)
-0.375223
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051955
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-65.3
0.4
1579.9
U/L 586/0
B 0
p 0
B:p 0:0
B:p 0:0
B 1000
p 1000
B W03UR
p W03UL

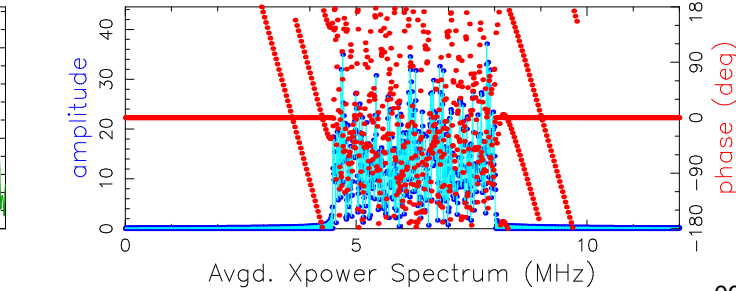
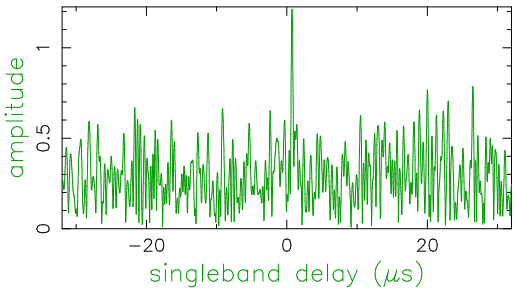
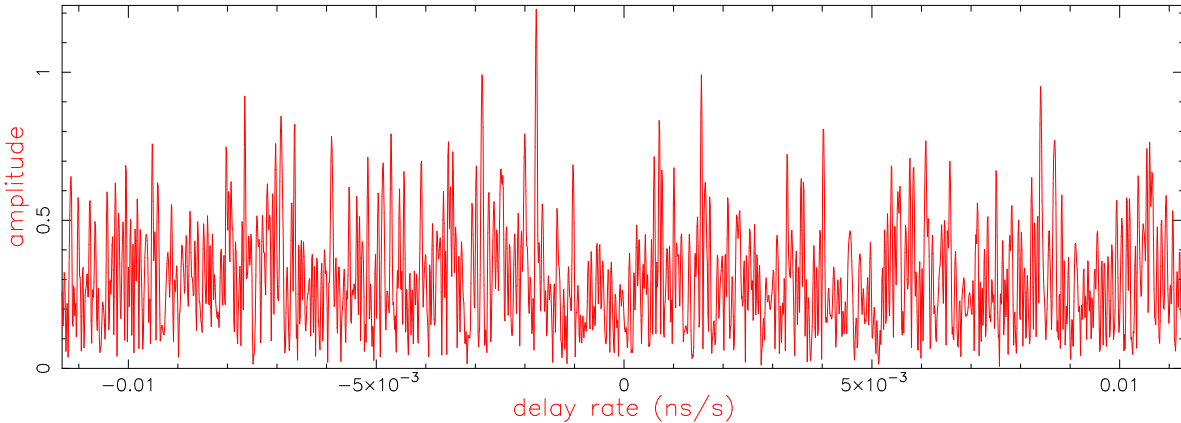
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.25100825036E+04	Apriori delay (usec)	-1.25109763942E+04	Resid mbdelay (usec)	-5.73843E-06	+/- 5.4E-03
Sband delay (usec)	-1.25100825009E+04	Apriori clock (usec)	-2.7599001E+01	Resid sbdelay (usec)	8.93893E-01	+/- 5.4E-03
Phase delay (usec)	-1.25109763963E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.10613E-06	+/- 4.4E-07
Delay rate (us/s)	-1.14980468276E+00	Apriori rate (us/s)	-1.14980032680E+00	Resid rate (us/s)	-4.35596E-06	+/- 2.5E-09
Total phase (deg)	-198.1	Apriori accel (us/s/s)	7.96632586077E-05	Resid phase (deg)	-342.1	+/- 13.5

ph/seg (deg)	RMS 93.2	Theor. 115.8	Amplitude Search (2048X8)	1.242 +/- 0.147	1.130	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	84.6	202.1	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Inc. seg. avg.	0.552	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.8	Inc. frq. avg.	1.233	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
					nlags: 1536	t_cohere infinite	ion window (TEC) 0.00 0.00

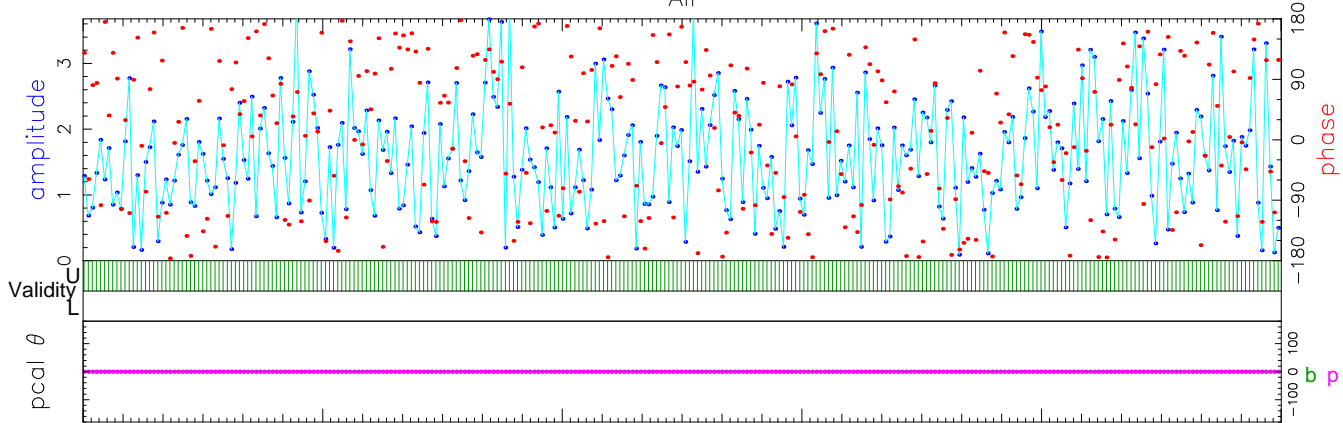
B: az 297.1 el 22.7 pa 43.3 p: az 84.0 el 73.9 pa -85.4 u,v (fr/asec) 8089.588 5751.724 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/Bp..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/Bp.W.91.1T5GV4

Fringe quality 8



SNR 8.8
Int time 299.956
Amp 1.226
Phase -153.7
PFD 2.4e-11
Delays (us)
SBD 0.744316
MBD -0.000006
Fringe rate (Hz)
-0.152597
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051956
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



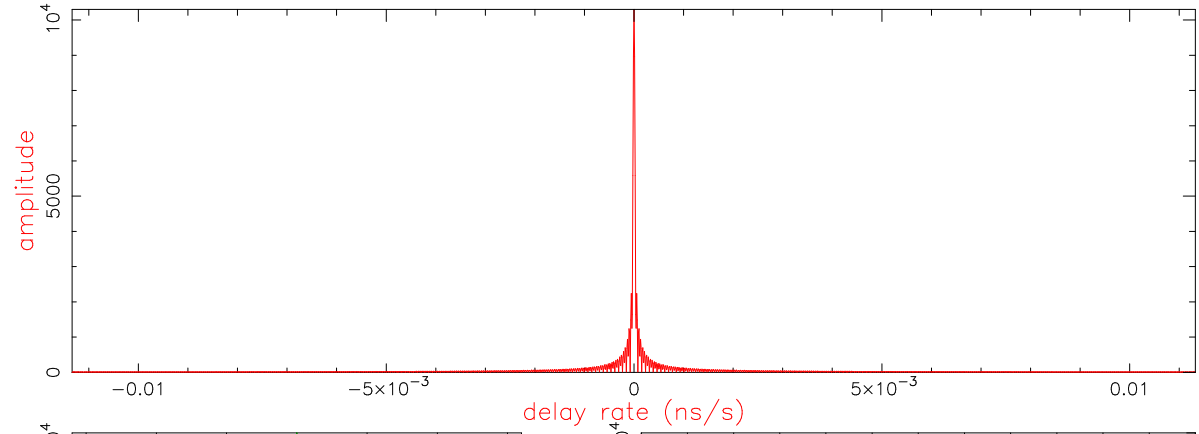
86227.00
118.6
0.4
1572.7
U/L 586/0
b 0
p 0
b:p 0:0
b:p 0:0
b 1000
p 1000
b W03UR
p W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.45322239593E+03	Apriori delay (usec)	-1.45396671568E+03	Resid mbdelay (usec)	-6.27590E-06	+/-	5.2E-03
Sband delay (usec)	-1.45322239968E+03	Apriori clock (usec)	-8.5217819E+00	Resid sbdelay (usec)	7.44316E-01	+/-	5.2E-03
Phase delay (usec)	-1.45396671186E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	3.82357E-06	+/-	4.2E-07
Delay rate (us/s)	9.18784642551E-02	Apriori rate (us/s)	9.18802357589E-02	Resid rate (us/s)	-1.77150E-06	+/-	2.4E-09
Total phase (deg)	-113.7	Apriori accel (us/s/s)	1.92290678343E-05	Resid phase (deg)	-153.7	+/-	13.0

ph/seg (deg)	RMS 94.1	Theor. 111.5	Amplitude Search (2048X8)	1.226 +/- 0.139	1.204	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	75.9	194.5	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Inc. seg. avg.	0.560	0.560	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.4	Inc. frq. avg.	1.217	1.217	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

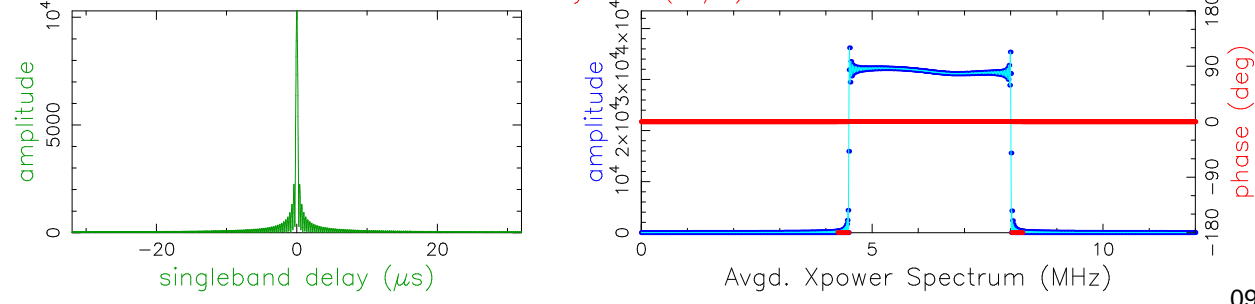
b: az 109.2 el 63.1 pa -50.1 p: az 84.0 el 73.9 pa -85.4 u,v (fr/asec) -613.212 2362.632 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/bp..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/bp.W.98.1T5GV4



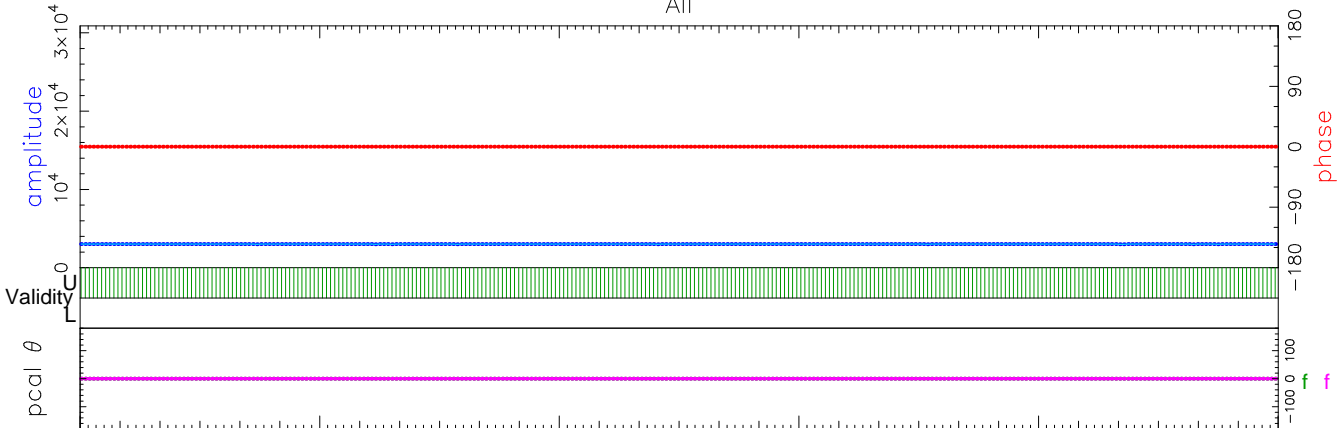
Fringe quality 5

SNR 74690.8
Int time 299.973
Amp 10300.851
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

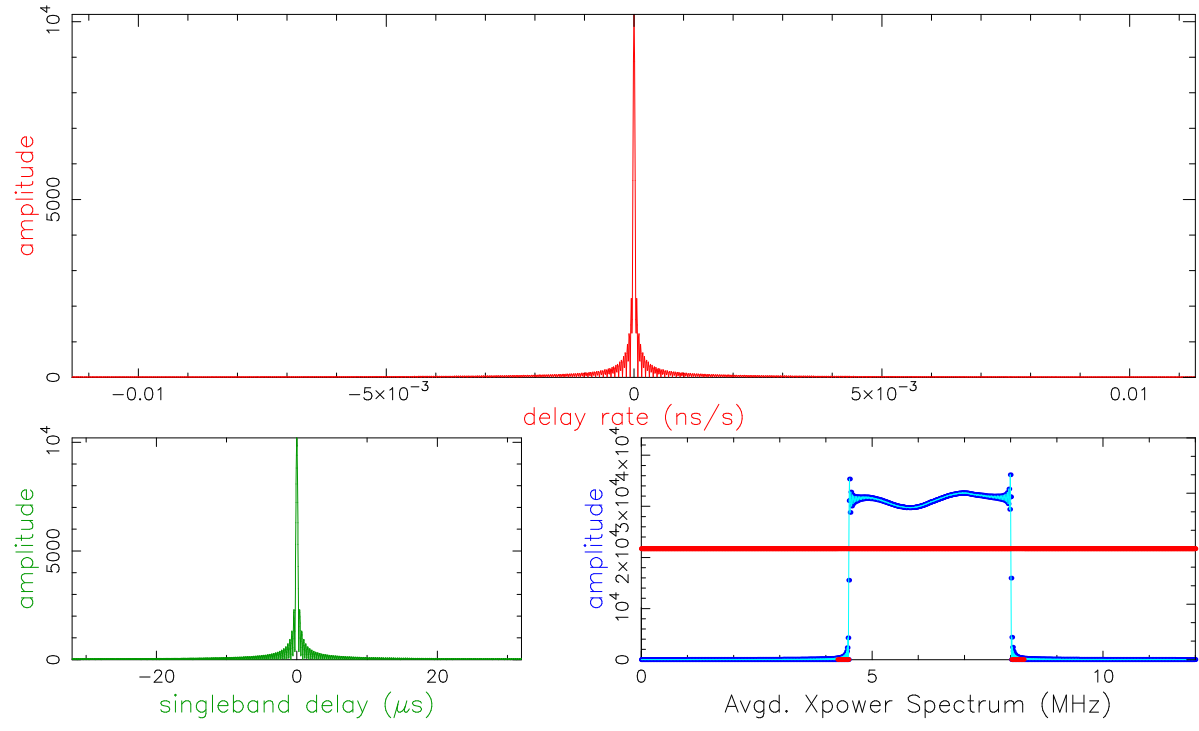
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051953
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

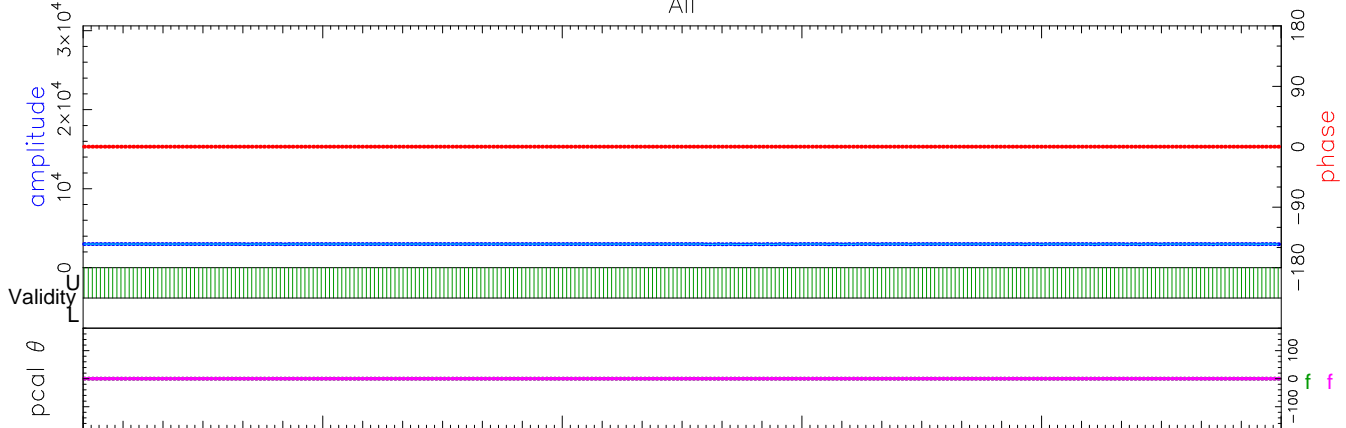


86227.00	0.2	3017.8	1537.0	U/L 586/0	f 0	f 0	f:f 0:0	f:f 0:0	f 1000	f 1000	f W03UL	f W03UL	86227.00	0.2	3017.8	1537.0	U/L 586/0	f 0	f 0	f:f 0:0	f:f 0:0	f 1000	f 1000	f W03UL	f W03UL	86227.00	0.2	3017.8	1537.0	U/L 586/0	f 0	f 0	f:f 0:0	f:f 0:0	f 1000	f 1000	f W03UL	f W03UL												
													Freq (MHz)																																					
													Phase																																					
													Ampl.																																					
													Sbd box																																					
													APs used																																					
													PC freqs																																					
													PC freqs																																					
													PC phase																																					
													Manl PC																																					
													PC amp																																					
													Chan ids																																					
													Chan ids																																					
Group delay (usec)(sbd)	4.34898581651E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-7.24831E-06	+/-	6.2E-07	Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.2E-07	Phase delay (usec)	7.82554912420E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.82555E-09	+/-	4.9E-11	Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-13	Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/-	0.0											
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10300.851 +/- 0.138	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	amp/seg (%)	70.7	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.000	0.000	ph/frq (deg)	0.0	0.0	Inc. seg. avg.	3017.827	Sample rate(MISamp/s):	24	dr window (ns/s)	-0.011	0.011	amp/frq (%)	70.7	0.0	Inc. frq. avg.	10300.851	Data rate(Mb/s):	48	nlags:	1536	t_cohere	infinite	ion window (TEC)	0.00	0.00
f: az 69.7 el 76.5 pa -101.8	f: az 69.7 el 76.5 pa -101.8	u,v (fr/asec)	0.000	0.000														simultaneous interpolator																																
Control file:	cf_1234_gmva_line	Input file:	/Exps/c211d/v1/LINES1/1234/No0016/ff..1T5GV4	Output file:	/Exps/c211d/v1/LINES1/1234/No0016/ff.W.66.1T5GV4																																													



Fringe quality 5
SNR 73979.5
Int time 299.973
Amp 10202.752
Phase -0.2
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000006
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051953
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
0.2
2989.1
1537.0
U/L 586/0
f 0
f 0
f:f 0:0
f:f 0:0
f 1000
f 1000
f W03UR
f W03UR

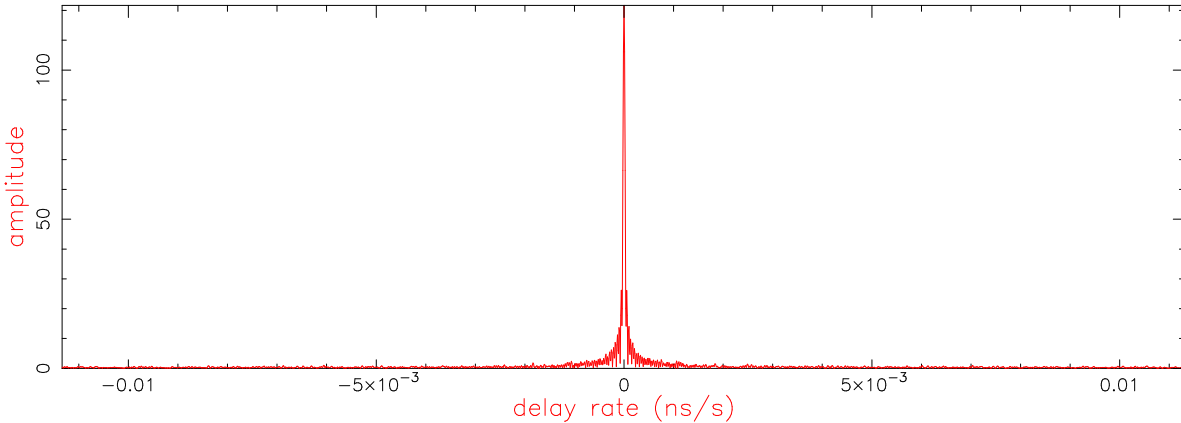
Validity
pcal θ
f f

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

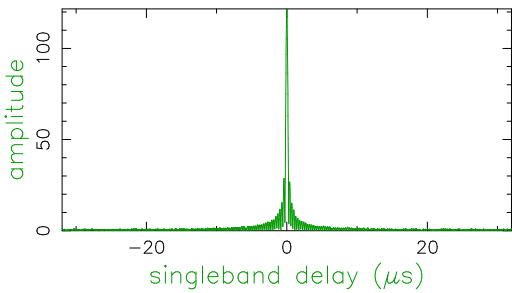
Group delay (usec)(sbd)	5.26749162095E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.32980E-06	+/-	6.2E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.2E-07
Phase delay (usec)	6.83389553918E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.83390E-09	+/-	5.0E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-13
Total phase (deg)	-0.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.2	+/-	0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10202.752 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 70.7 0.0 Search (2048X8) 10202.752 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 70.7 0.0 Inc. seg. avg. 2989.087 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011
f: az 69.7 el 76.5 pa -101.8 f: az 69.7 el 76.5 pa -101.8 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/ff..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/ff.W.72.1T5GV4 simultaneous interpolator

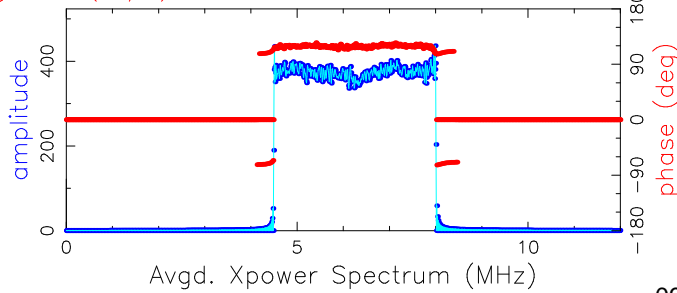
Fringe quality 5



SNR 882.3
Int time 299.973
Amp 121.682
Phase 139.6
PFD 0.0e+00
Delays (us)
SBD -0.000709
MBD -0.000005
Fringe rate (Hz)
0.000008
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

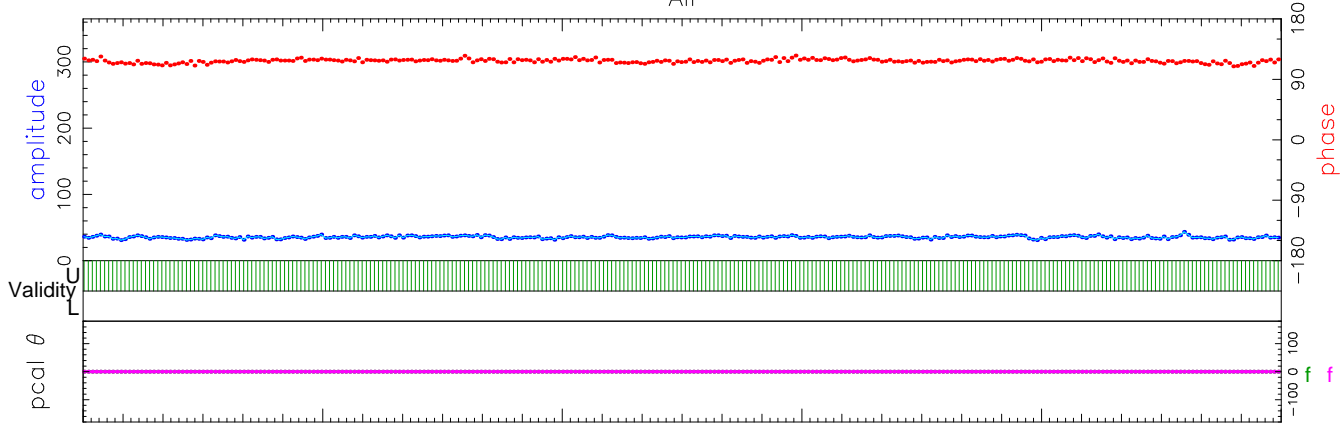


delay rate (ns/s)



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051954
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
117.4
35.6
1537.0
U/L 586/0
f 0
f 0
f:f 0:0
f:f 0:0
f 1000
f 1000
f W03UL
f W03UR

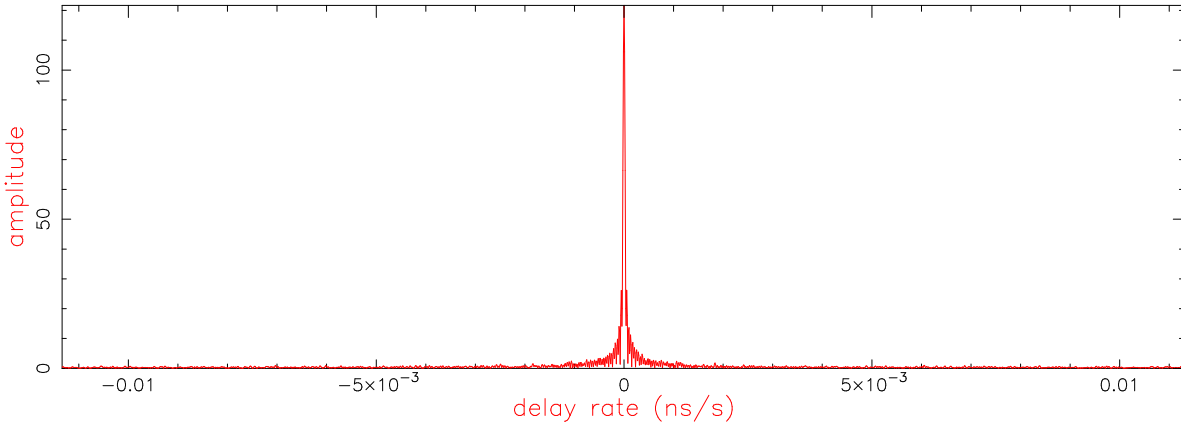
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-7.12453315087E-04	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-5.01829E-06	+/-	5.2E-05
Sband delay (usec)	-7.09333333333E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-7.09333E-04	+/-	5.2E-05
Phase delay (usec)	3.78737051503E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.78737E-06	+/-	4.2E-09
Delay rate (us/s)	8.71525872089E-11	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	8.71526E-11	+/-	2.4E-11
Total phase (deg)	139.6	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	139.6	+/-	0.1

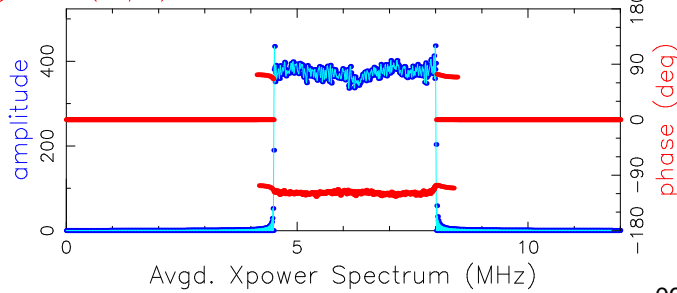
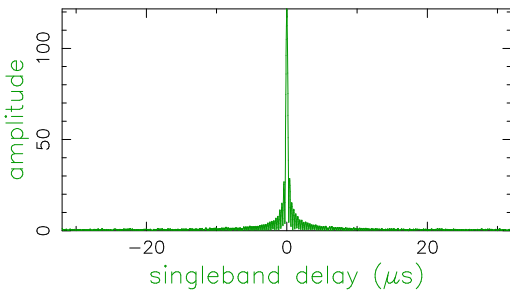
ph/seg (deg)	2.7	Theor.	1.1	Amplitude	121.682 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		1.9	Search (2048X8)	121.679	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.1	Inc. seg. avg.	35.680	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	121.680	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

f: az 69.7 el 76.5 pa -101.8 f: az 69.7 el 76.5 pa -101.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/ff..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/ff.W.77.1T5GV4

Fringe quality 5

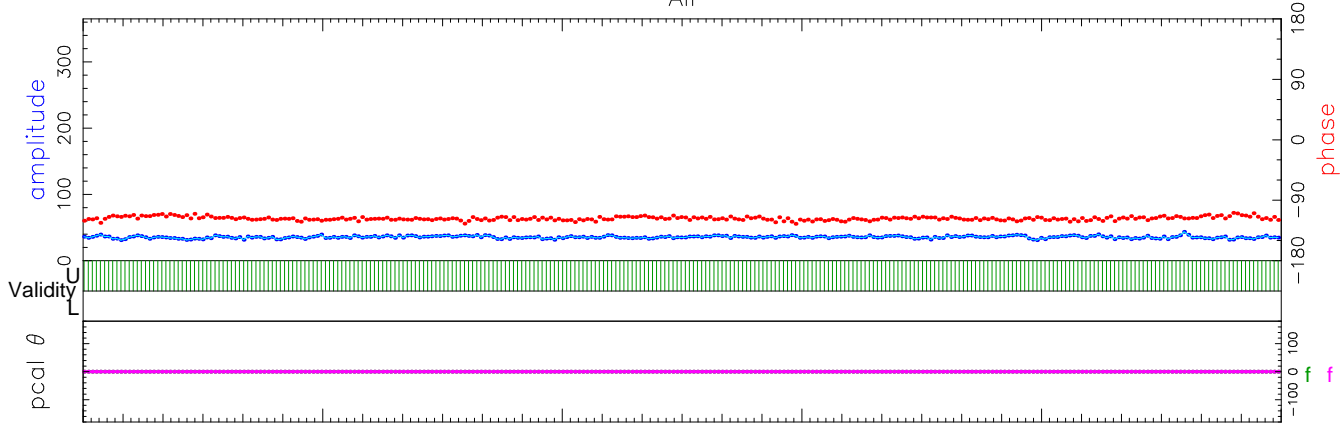


SNR 882.3
Int time 299.973
Amp 121.682
Phase -139.6
PFD 0.0e+00
Delays (us)
SBD 0.000709
MBD -0.000006
Fringe rate (Hz)
-0.000008
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051954
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



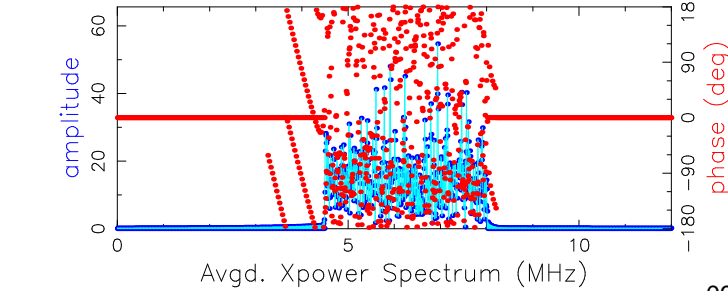
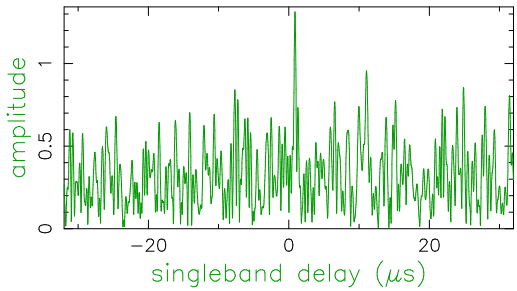
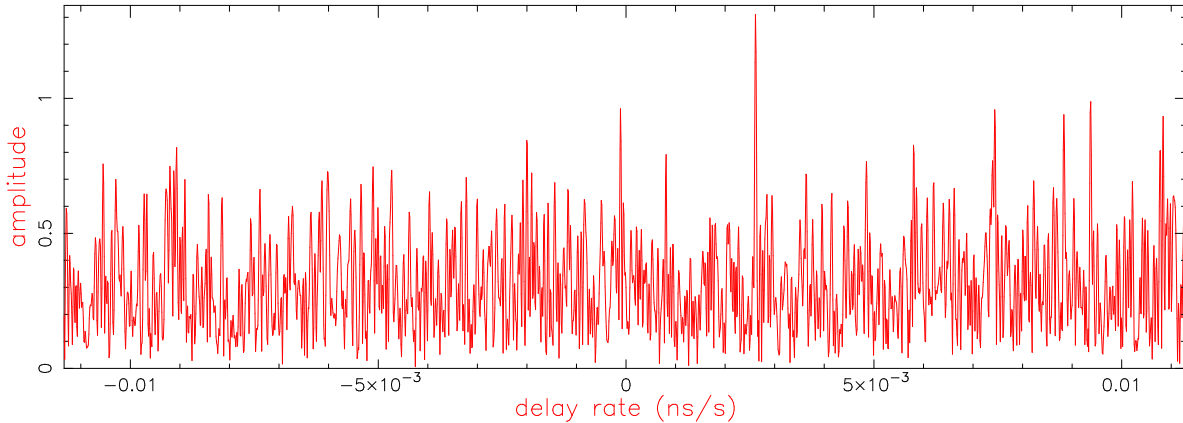
86227.00
-117.1
35.6
1537.0
U/L 586/0
f 0
f 0
f:f 0:0
f:f 0:0
f 1000
f 1000
f W03UR
f W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	7.12803553411E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.22877E-06	+/-	5.2E-05
Sband delay (usec)	7.09333333333E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	7.09333E-04	+/-	5.2E-05
Phase delay (usec)	-3.77522776677E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.77523E-06	+/-	4.2E-09
Delay rate (us/s)	-8.71525872089E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-8.71526E-11	+/-	2.4E-11
Total phase (deg)	-139.6	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-139.6	+/-	0.1

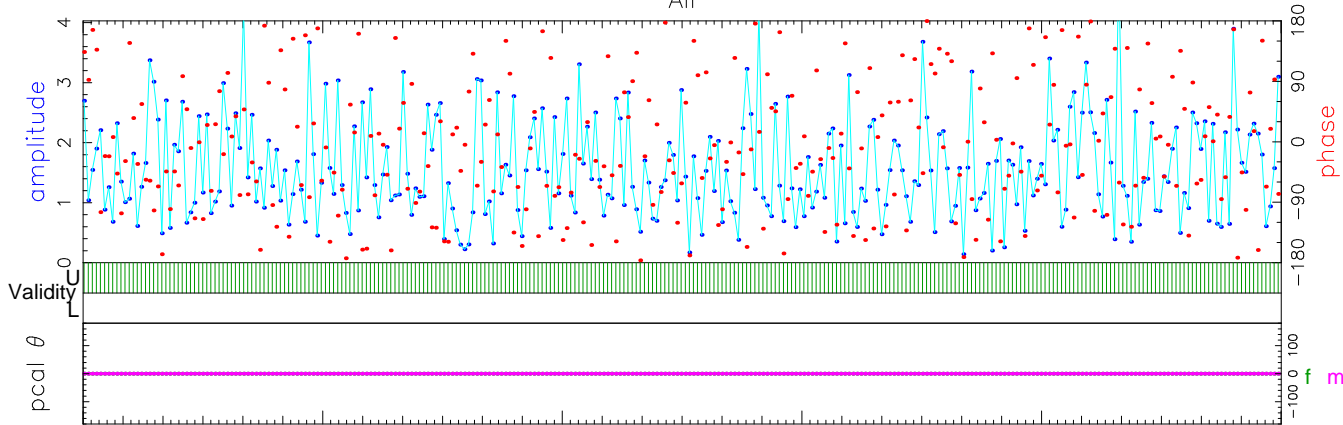
ph/seg (deg)	2.7	Theor.	1.1	Amplitude	121.682 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		1.9	Search (2048X8)	121.679	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.1	Inc. seg. avg.	35.680	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	121.680	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
f: az 69.7 el 76.5 pa -101.8						nlags: 1536 t_cohere infinite	
				f: az 69.7 el 76.5 pa -101.8			simultaneous interpolator
				u,v (fr/asec) 0.000 0.000			

Fringe quality 8



SNR 9.5
Int time 299.973
Amp 1.344
Phase -333.4
PFD 2.9e-14
Delays (us)
SBD 0.882975
MBD 0.000007
Fringe rate (Hz)
0.224725
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051957
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-38.7
0.4
1579.4
U/L 586/0
f 0
m 0
f:m 0:0
f:m 0:0
f 1000
m 1000
f W03UR
m W03UR

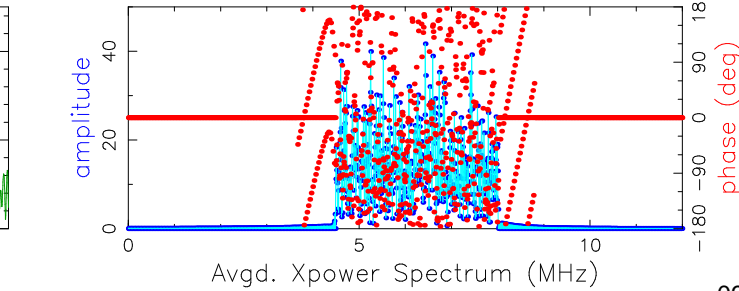
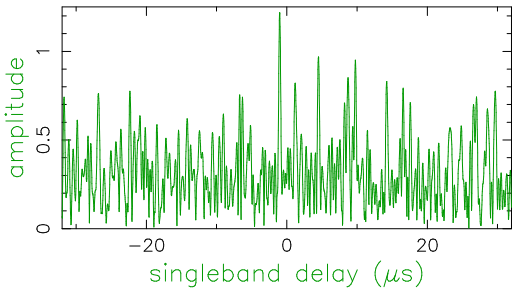
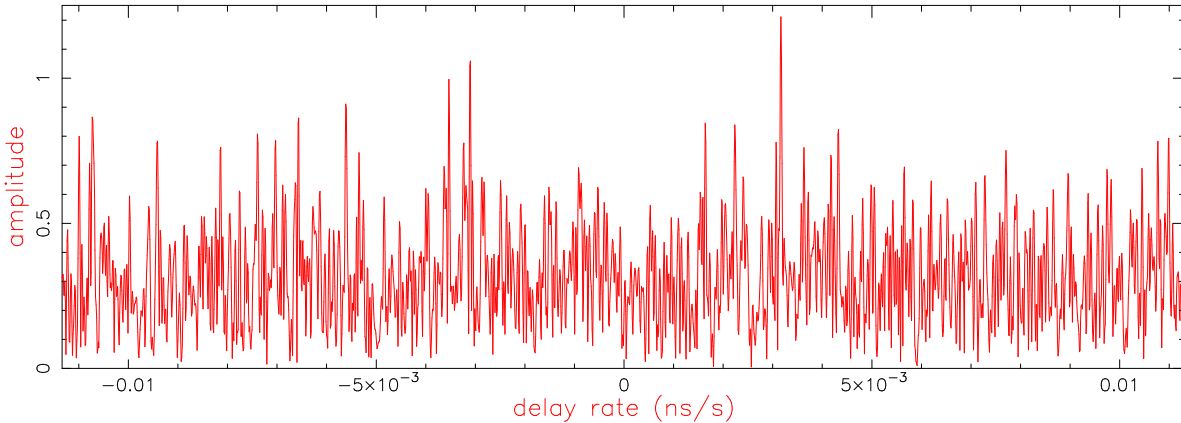
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	9.95942263729E+03	Apriori delay (usec)	9.95853965845E+03	Resid mbdelay (usec)	7.14611E-06	+/-	4.8E-03
Sband delay (usec)	9.95942263312E+03	Apriori clock (usec)	-5.4558296E+00	Resid sbdelay (usec)	8.82975E-01	+/-	4.8E-03
Phase delay (usec)	9.95853965720E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-1.24831E-06	+/-	3.9E-07
Delay rate (us/s)	-8.24964279870E-01	Apriori rate (us/s)	-8.24966888705E-01	Resid rate (us/s)	2.60883E-06	+/-	2.2E-09
Total phase (deg)	-269.0	Apriori accel (us/s/s)	-4.21193611414E-05	Resid phase (deg)	-333.4	+/-	12.0

ph/seg (deg)	RMS 93.7	Theor. 102.9	Amplitude Search (2048X8)	1.344 +/- 0.141	1.295	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	67.8	179.6	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	6.0	Inc. seg. avg.	0.618	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	70.8	10.5	Inc. frq. avg.	1.332	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00	

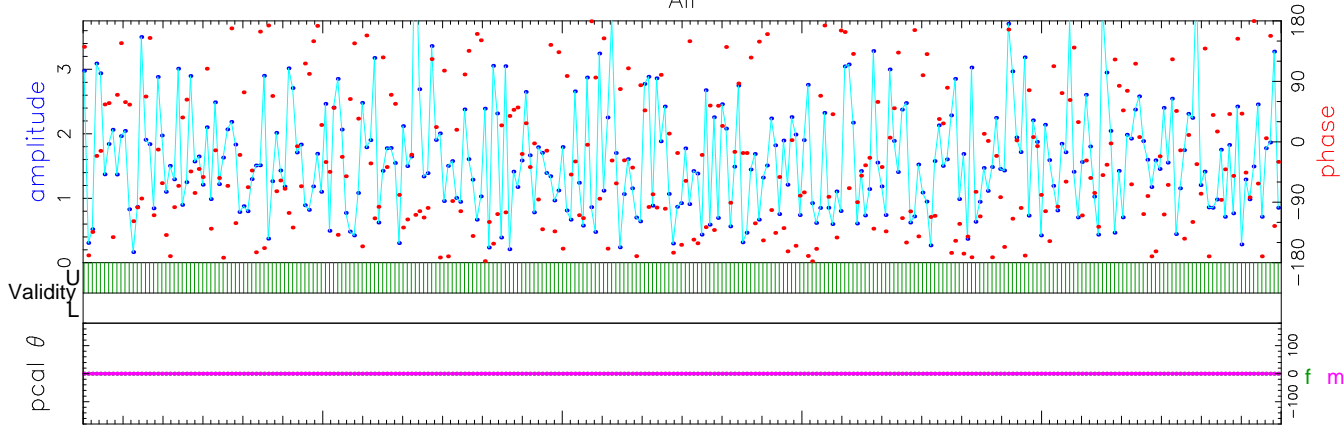
f: az 69.7 el 76.5 pa -101.8 m: az 60.9 el 29.7 pa -85.7 u,v (fr/asec) 5667.261 -1062.732 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/fm..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/fm.W.110.1T5GV4

Fringe quality 8



SNR 8.8
Int time 299.973
Amp 1.251
Phase 264.5
PFD 2.8e-11
Delays (us)
SBD -1.000000
MBD 0.000004
Fringe rate (Hz)
0.272480
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051959
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-95.5
0.4
1488.1
U/L 586/0
f 0
m 0
f:m 0:0
f:m 0:0
f 1000
m 1000
f W03UL
m W03UR

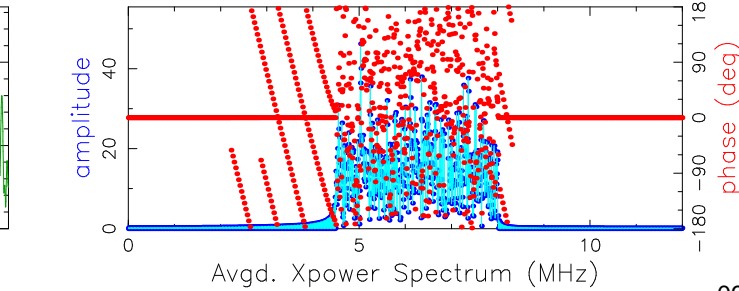
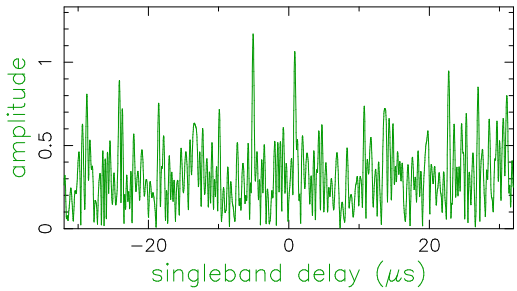
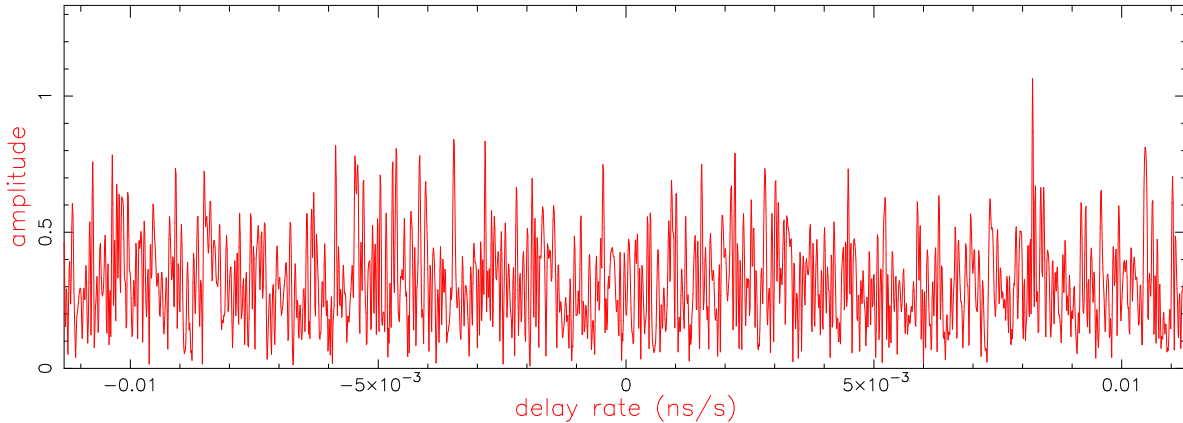
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	9.95753966280E+03	Apriori delay (usec)	9.95853965845E+03	Resid mbdelay (usec)	4.35386E-06	+/-	5.2E-03
Sband delay (usec)	9.95753965845E+03	Apriori clock (usec)	-5.4558296E+00	Resid sbdelay (usec)	-1.00000E+00	+/-	5.2E-03
Phase delay (usec)	9.95853965537E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-3.07969E-06	+/-	4.2E-07
Delay rate (us/s)	-8.24963725480E-01	Apriori rate (us/s)	-8.24966888705E-01	Resid rate (us/s)	3.16322E-06	+/-	2.4E-09
Total phase (deg)	328.8	Apriori accel (us/s/s)	-4.21193611414E-05	Resid phase (deg)	264.5	+/-	13.0

ph/seg (deg)	RMS 92.0	Theor. 111.6	Amplitude Search (2048X8)	1.251 +/- 0.142	1.194	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.0	194.9	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Inc. seg. avg.	0.576	0.576	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.4	Inc. frq. avg.	1.243	1.243	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

f: az 69.7 el 76.5 pa -101.8 m: az 60.9 el 29.7 pa -85.7 u,v (fr/asec) 5667.261 -1062.732 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/fm..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/fm.W.130.1T5GV4

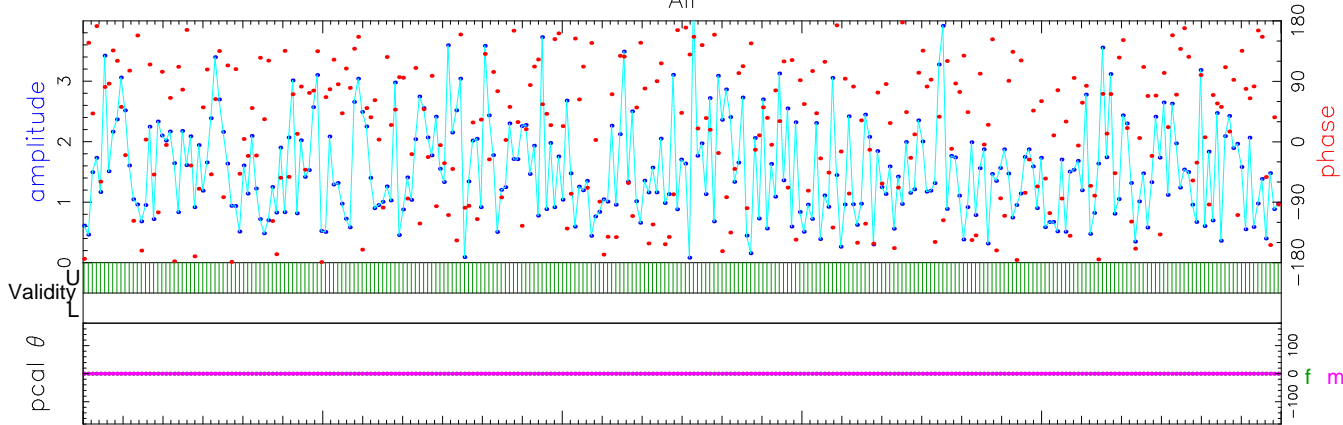
Fringe quality 8



SNR 7.7
Int time 299.973
Amp 1.333
Phase -291.0
PFD 1.8e-07
Delays (us)
SBD 0.850969
MBD 0.000007
Fringe rate (Hz)
0.705651
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:052000
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

All



86227.00
81.2
0.4
1292.9
U/L 586/0
f 0
m 0
f:m 0:0
f:m 0:0
f 1000
m 1000
f W03UR
m W03UL

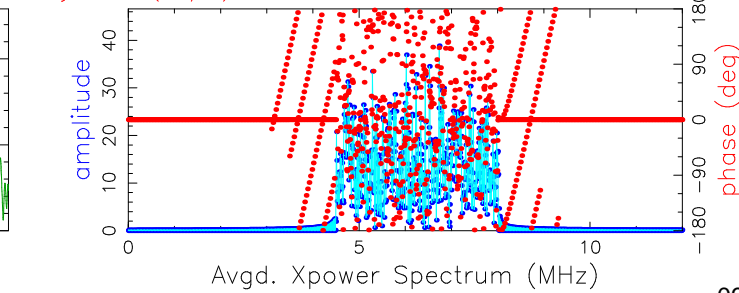
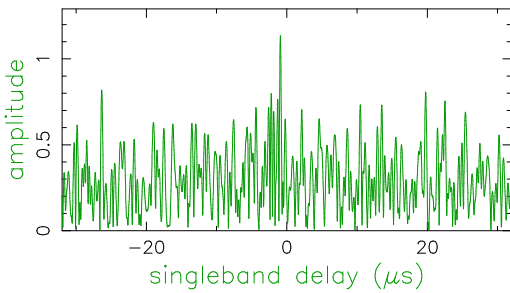
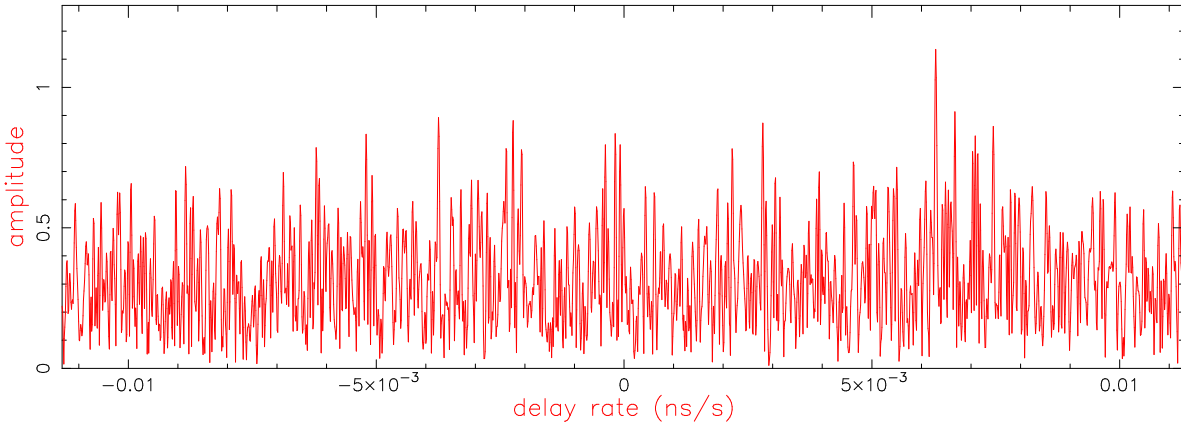
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	9.95939062865E+03	Apriori delay (usec)	9.95853965845E+03	Resid mbdelay (usec)	7.04865E-06	+/-	6.0E-03
Sband delay (usec)	9.95939062778E+03	Apriori clock (usec)	-5.4558296E+00	Resid sbdelay (usec)	8.50969E-01	+/-	6.0E-03
Phase delay (usec)	9.95853966107E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	2.61778E-06	+/-	4.8E-07
Delay rate (us/s)	-8.24958696795E-01	Apriori rate (us/s)	-8.24966888705E-01	Resid rate (us/s)	8.19191E-06	+/-	2.8E-09
Total phase (deg)	-226.6	Apriori accel (us/s/s)	-4.21193611414E-05	Resid phase (deg)	-291.0	+/-	14.8

ph/seg (deg)	RMS 92.6	Theor. 127.0	Amplitude Search (2048X8)	1.333 +/- 0.173	1.063	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	89.8	221.7	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.4	Inc. seg. avg.	0.565	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	13.0	Inc. frq. avg.	1.322	0.000	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

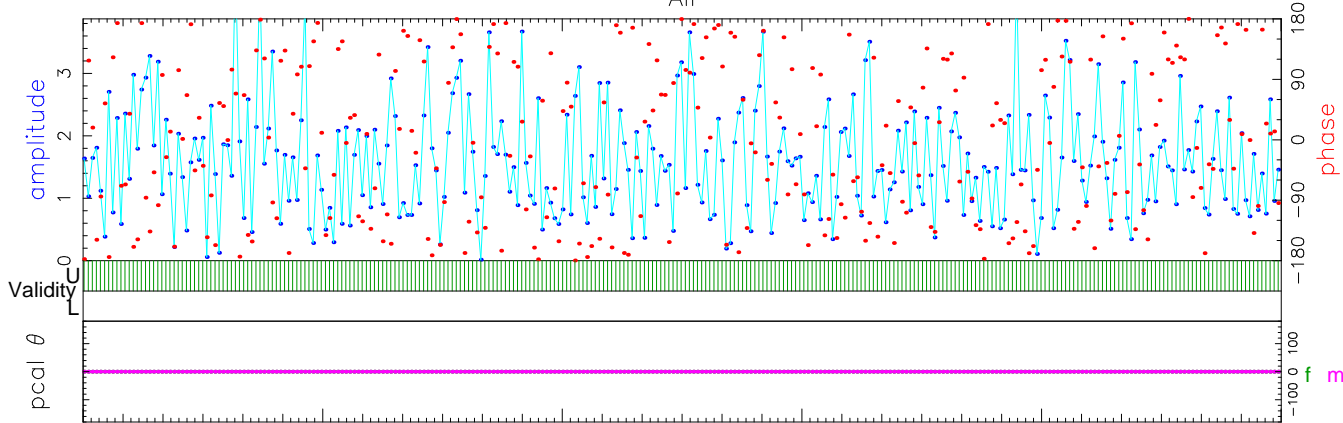
f: az 69.7 el 76.5 pa -101.8 m: az 60.9 el 29.7 pa -85.7 u,v (fr/asec) 5667.261 -1062.732 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/fm...1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/fm.W.137.1T5GV4

Fringe quality 8



SNR 8.2
Int time 299.973
Amp 1.292
Phase 115.4
PFD 3.2e-09
Delays (us)
SBD -0.917177
MBD 0.000005
Fringe rate (Hz)
0.540837
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051954
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-170.8
0.4
1493.0
U/L 586/0
f 0
m 0
f:m 0:0
f:m 0:0
f 1000
m 1000
f W03UL
m W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

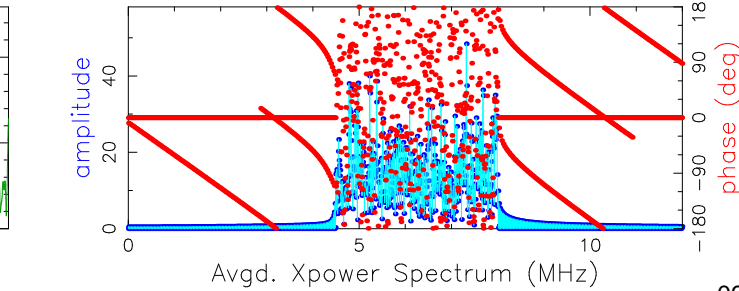
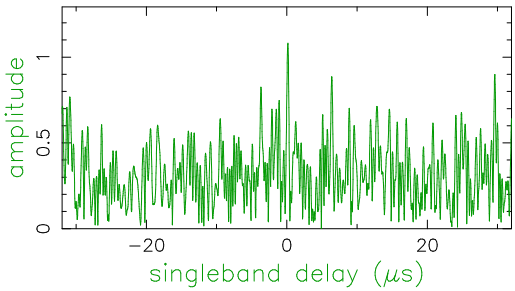
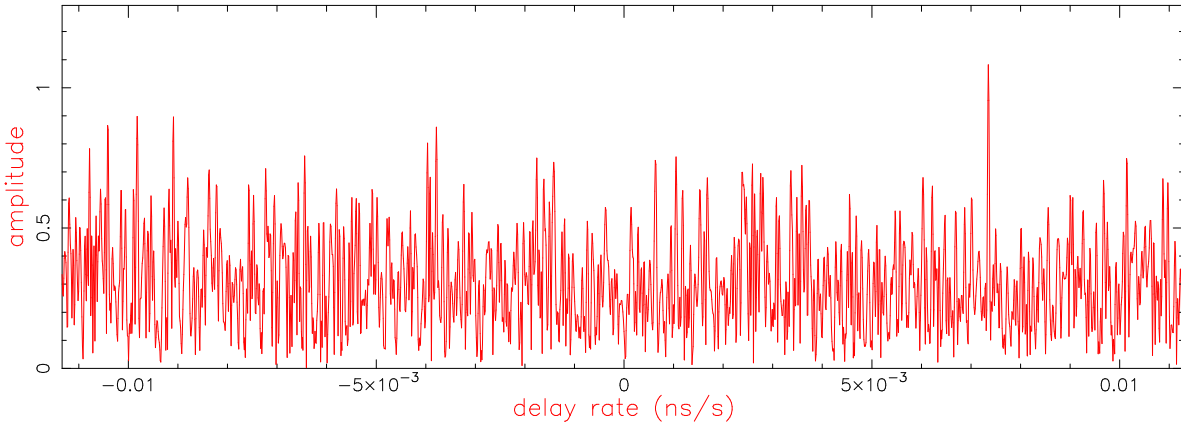
Group delay (usec)(sbd)	9.95762247948E+03	Apriori delay (usec)	9.95853965845E+03	Resid mbdelay (usec)	4.74385E-06	+/-	5.6E-03
Sband delay (usec)	9.95762248112E+03	Apriori clock (usec)	-5.4558296E+00	Resid sbdelay (usec)	-9.17177E-01	+/-	5.6E-03
Phase delay (usec)	9.95853965294E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-5.50689E-06	+/-	4.5E-07
Delay rate (us/s)	-8.24960610128E-01	Apriori rate (us/s)	-8.24966888705E-01	Resid rate (us/s)	6.27858E-06	+/-	2.6E-09
Total phase (deg)	179.8	Apriori accel (us/s/s)	-4.21193611414E-05	Resid phase (deg)	115.4	+/-	13.9

ph/seg (deg)	RMS 94.9	Theor. 119.2	Amplitude Search (2048X8)	1.292 +/- 0.157	1.127	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	89.0	208.0	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.0	Inc. seg. avg.	0.578	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.2	Inc. frq. avg.	1.282	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
f: az 69.7 el 76.5 pa -101.8		m: az 60.9 el 29.7 pa -85.7		u,v (fr/asec) 5667.261 -1062.732		ion window (TEC) 0.00 0.00	

simultaneous interpolator

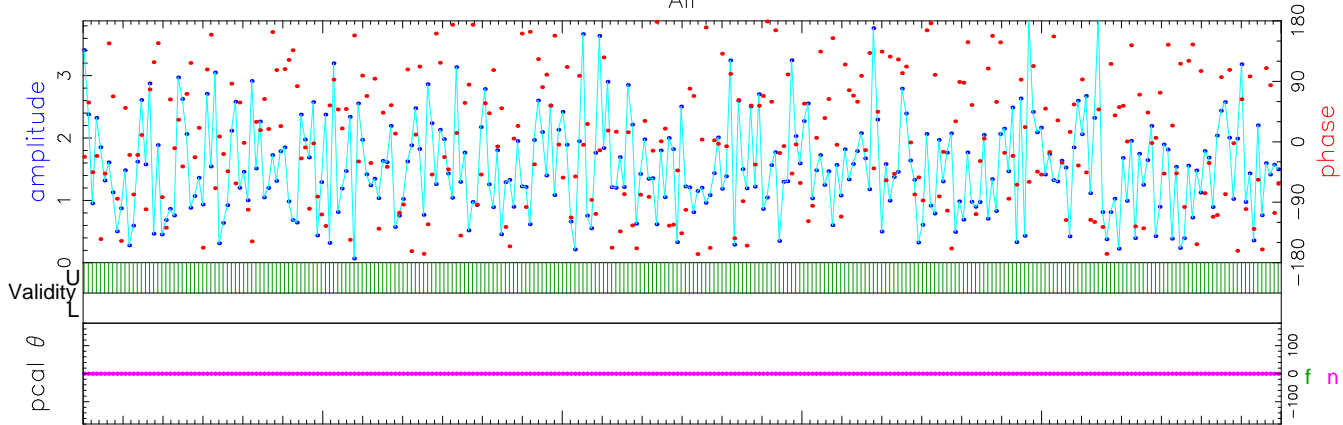
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/fm..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/fm.W.82.1T5GV4

Fringe quality 8



SNR 7.8
Int time 299.972
Amp 1.293
Phase -224.0
PFD 7.0e-08
Delays (us)
SBD 0.145649
MBD 0.000007
Fringe rate (Hz)
0.632199
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051957
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
17.4
0.4
1544.0
U/L 586/0
f 0
n 0
f:n 0:0
f:n 0:0
f 1000
n 1000
f W03UR
n W03UR

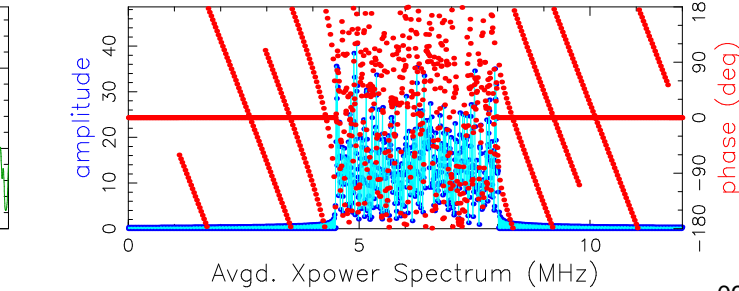
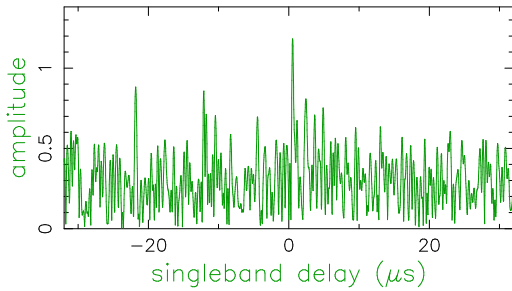
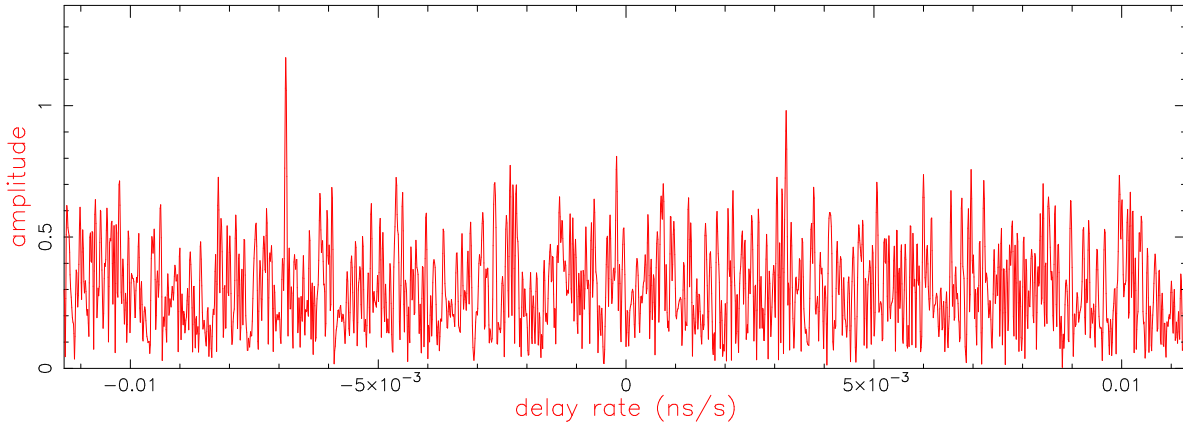
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.35793058042E+02	Apriori delay (usec)	-3.35938703557E+02	Resid mbdelay (usec)	6.67735E-06	+/-	5.9E-03
Sband delay (usec)	-3.35793054223E+02	Apriori clock (usec)	4.7771702E+00	Resid sbdelay (usec)	1.45649E-01	+/-	5.9E-03
Phase delay (usec)	-3.35938702995E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	5.61916E-07	+/-	4.7E-07
Delay rate (us/s)	2.40562875565E-01	Apriori rate (us/s)	2.40555536361E-01	Resid rate (us/s)	7.33920E-06	+/-	2.7E-09
Total phase (deg)	-196.8	Apriori accel (us/s/s)	-8.16222828401E-06	Resid phase (deg)	-224.0	+/-	14.6

ph/seg (deg)	RMS 94.0	Theor. 125.0	Amplitude Search (2048X8)	1.293 +/- 0.165	1.074	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	83.1	218.2	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.3	Inc. seg. avg.	0.546	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.7	Inc. frq. avg.	1.283	0.000	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

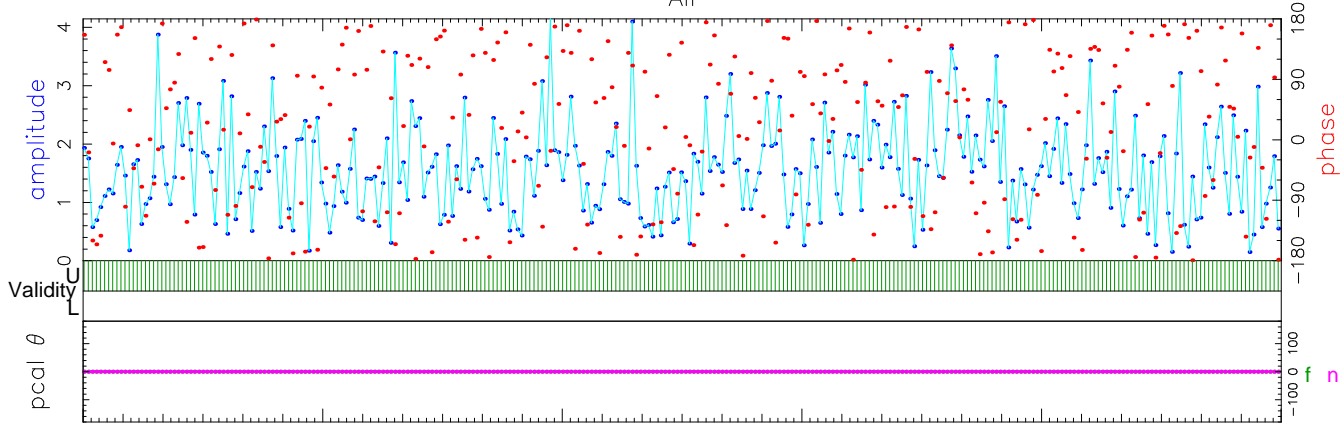
f: az 69.7 el 76.5 pa -101.8 n: az 161.1 el 82.3 pa -16.2 u,v (fr/asec) -1679.602 -1570.467 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/fn..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/fn.W.102.1T5GV4

Fringe quality 8



SNR 8.6
Int time 299.972
Amp 1.382
Phase -183.3
PFD 1.6e-10
Delays (us)
SBD 0.538951
MBD -0.000006
Fringe rate (Hz)
-0.590286
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051958
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
137.0
0.4
1562.9
U/L 586/0
f 0
n 0
f:n 0:0
f:n 0:0
f 1000
n 1000
f W03UL
n W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.35399748344E+02	Apriori delay (usec)	-3.35938703557E+02	Resid mbdelay (usec)	-5.90107E-06	+/-	5.4E-03
Sband delay (usec)	-3.35399752890E+02	Apriori clock (usec)	4.7771702E+00	Resid sbdelay (usec)	5.38951E-01	+/-	5.4E-03
Phase delay (usec)	-3.35938699140E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	4.41703E-06	+/-	4.3E-07
Delay rate (us/s)	2.40548683729E-01	Apriori rate (us/s)	2.40555536361E-01	Resid rate (us/s)	-6.85263E-06	+/-	2.5E-09
Total phase (deg)	-156.1	Apriori accel (us/s/s)	-8.16222828401E-06	Resid phase (deg)	-183.3	+/-	13.4

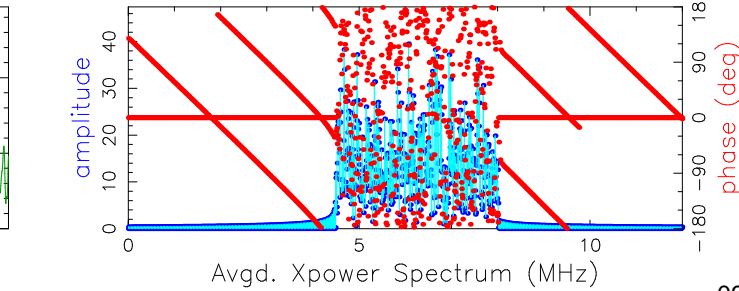
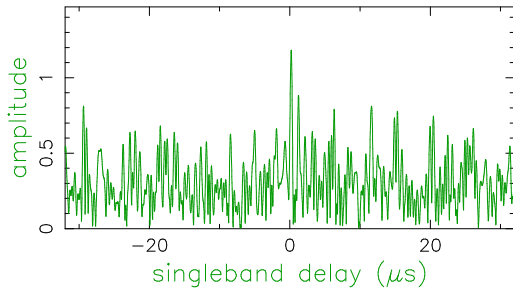
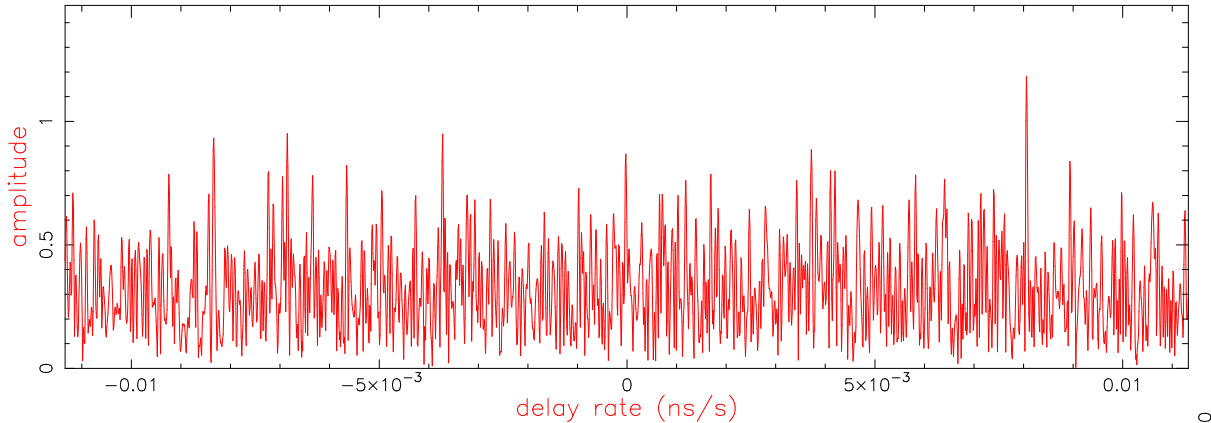
ph/seg (deg)	RMS 91.7	Theor. 114.3	Amplitude Search (2048X8)	1.382 +/- 0.161	1.172	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.4	199.5	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.610	0.610	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.7	Inc. frq. avg.	1.372	1.372	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

f: az 69.7 el 76.5 pa -101.8 n: az 161.1 el 82.3 pa -16.2 u,v (fr/asec) -1679.602 -1570.467 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/fn..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/fn.W.116.1T5GV4

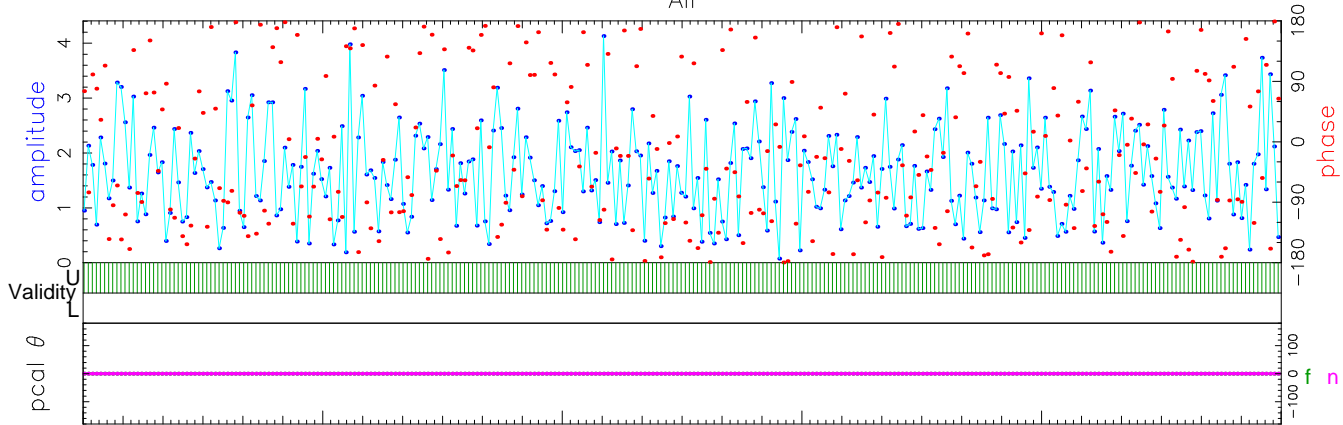
Fringe quality 8

SNR 8.6
Int time 299.972
Amp 1.470
Phase -230.6
PFD 1.6e-10
Delays (us)
SBD 0.198467
MBD 0.000007
Fringe rate (Hz)
0.693133
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051959
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-134.7
0.4
1546.5
U/L 586/0
f 0
n 0
f:n 0:0
f:n 0:0
f 1000
n 1000
f W03UR
n W03UL

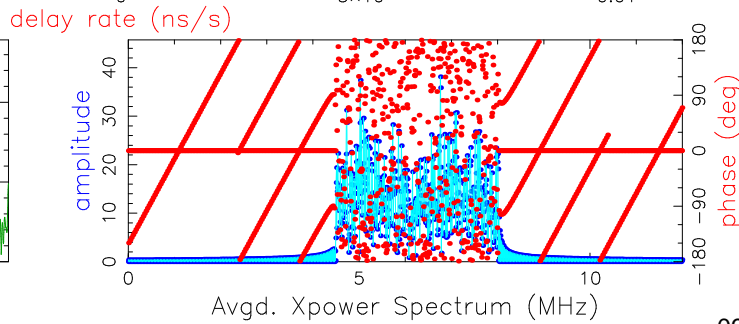
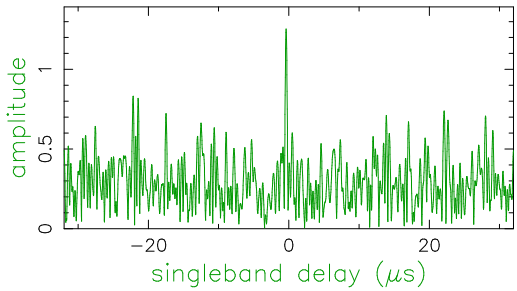
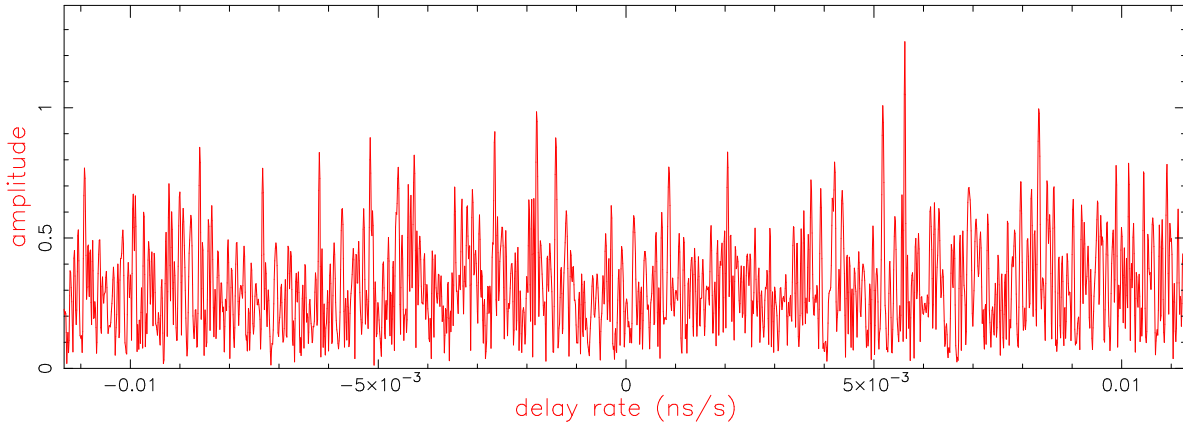
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.35740231907E+02	Apriori delay (usec)	-3.35938703557E+02	Resid mbdelay (usec)	7.13127E-06	+/-	5.4E-03
Sband delay (usec)	-3.35740236890E+02	Apriori clock (usec)	4.7771702E+00	Resid sbdelay (usec)	1.98467E-01	+/-	5.4E-03
Phase delay (usec)	-3.35938707901E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-4.34426E-06	+/-	4.3E-07
Delay rate (us/s)	2.40563582952E-01	Apriori rate (us/s)	2.40555536361E-01	Resid rate (us/s)	8.04659E-06	+/-	2.5E-09
Total phase (deg)	-203.4	Apriori accel (us/s/s)	-8.16222828401E-06	Resid phase (deg)	-230.6	+/-	13.4

ph/seg (deg)	RMS 92.8	Theor. 114.3	Amplitude Search (2048X8)	1.470 +/- 0.171	1.178	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	81.0	199.5	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.687	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.8	11.7	Inc. frq. avg.	1.457	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

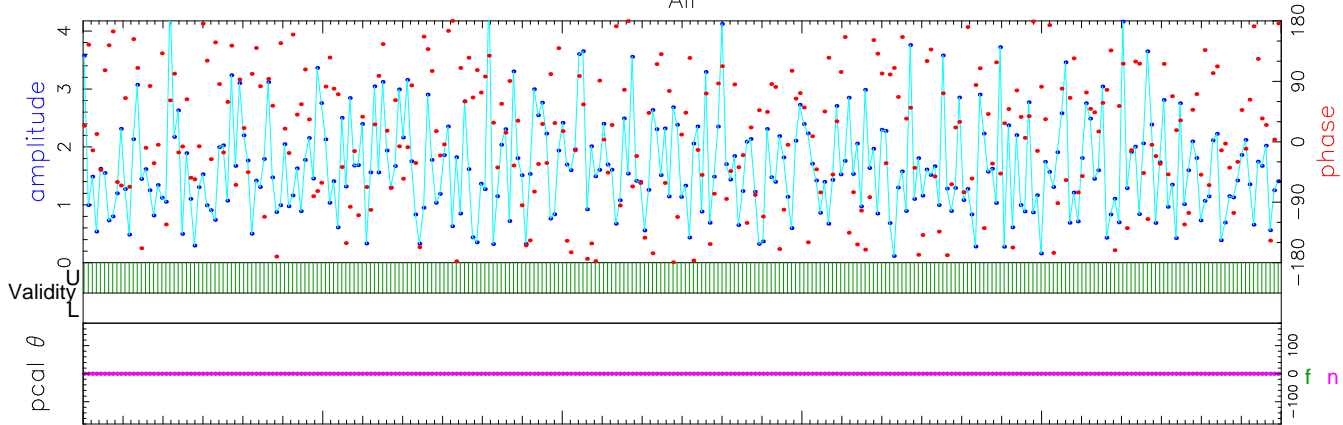
f: az 69.7 el 76.5 pa -101.8 n: az 161.1 el 82.3 pa -16.2 u,v (fr/asec) -1679.602 -1570.467 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/fn..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/fn.W.122.1T5GV4

Fringe quality 8



SNR 9.1
Int time 299.972
Amp 1.393
Phase 215.8
PFD 1.5e-12
Delays (us)
SBD -0.384749
MBD 0.000007
Fringe rate (Hz)
0.483663
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051955
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
45.4
0.4
1518.5
U/L 586/0
f 0
n 0
f:n 0:0
n:n 0:0
f 1000
n 1000
f W03UL
n W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.36323448824E+02	Apriori delay (usec)	-3.35938703557E+02	Resid mbdelay (usec)	6.60879E-06	+/-	5.0E-03
Sband delay (usec)	-3.36323452890E+02	Apriori clock (usec)	4.7771702E+00	Resid sbdelay (usec)	-3.84749E-01	+/-	5.0E-03
Phase delay (usec)	-3.35938702093E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	1.46361E-06	+/-	4.1E-07
Delay rate (us/s)	2.40561151215E-01	Apriori rate (us/s)	2.40555536361E-01	Resid rate (us/s)	5.61485E-06	+/-	2.3E-09
Total phase (deg)	243.0	Apriori accel (us/s/s)	-8.16222828401E-06	Resid phase (deg)	215.8	+/-	12.6

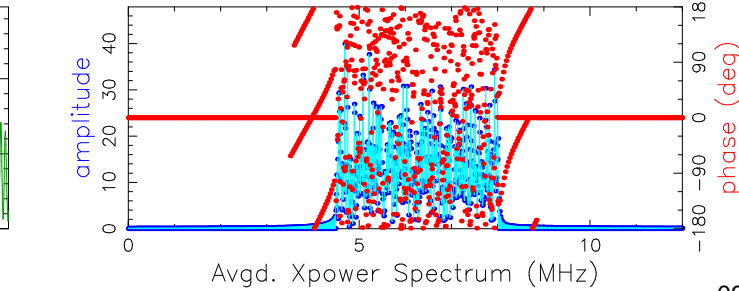
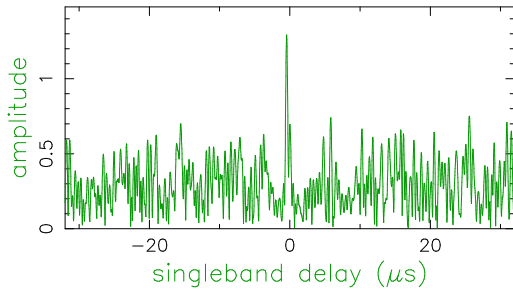
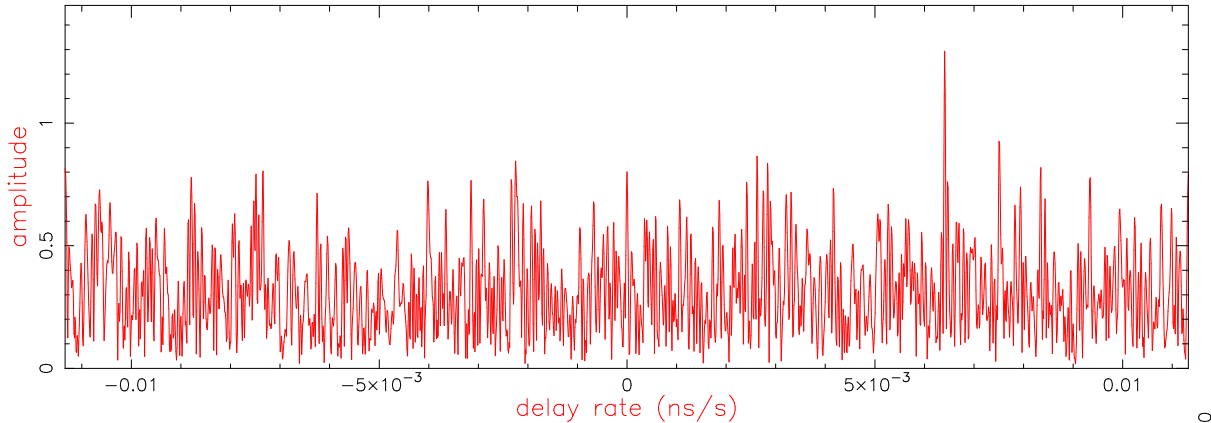
ph/seg (deg)	91.5	Theor.	107.7	Amplitude	1.393 +/- 0.153	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	76.4	Search (2048X8)	1.247	Search	1.247	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.669	Inc. seg. avg.	0.669	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	Inc. frq. avg.	1.381	Inc. frq. avg.	1.381	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

f: az 69.7 el 76.5 pa -101.8 n: az 161.1 el 82.3 pa -16.2 u,v (fr/asec) -1679.602 -1570.467 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/fn..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/fn.W.83.1T5GV4

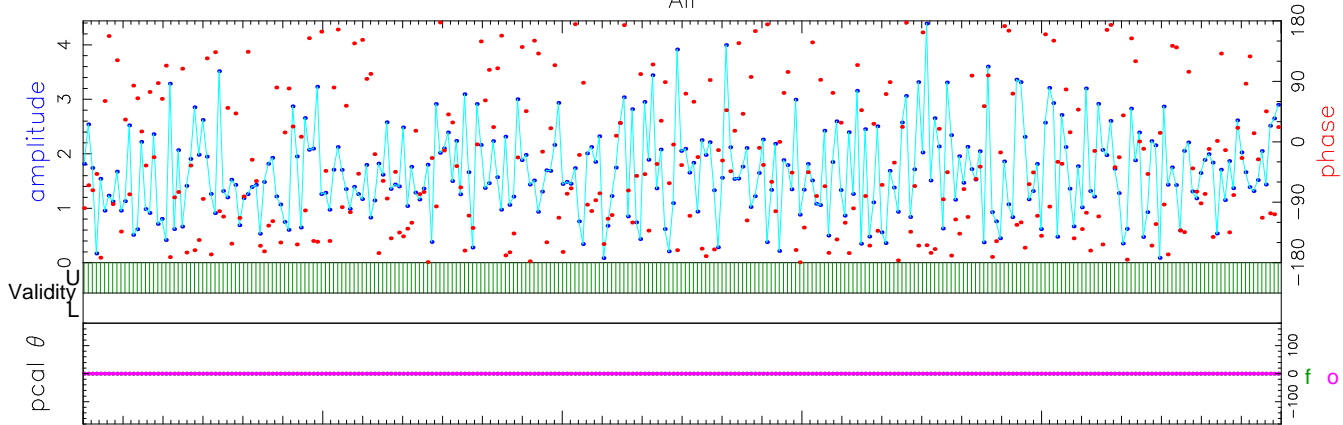
Fringe quality 8

SNR 9.4
Int time 299.973
Amp 1.480
Phase 1.4
PFD 1.2e-13
Delays (us)
SBD -0.452133
MBD 0.000004
Fringe rate (Hz)
0.551524
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051957
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-119.4
0.4
1515.3
U/L 586/0
f 0
o 0
f:o 0:0
f:o 0:0
f 1000
o 1000
f W03UL
o W03UR

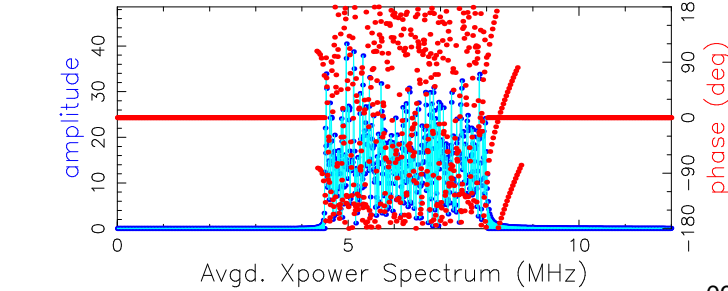
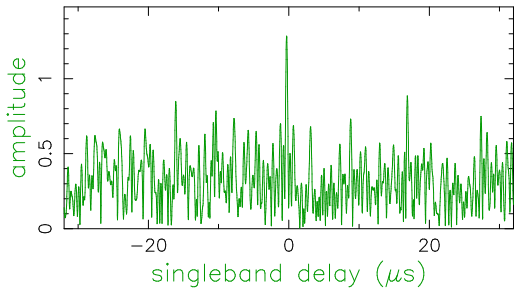
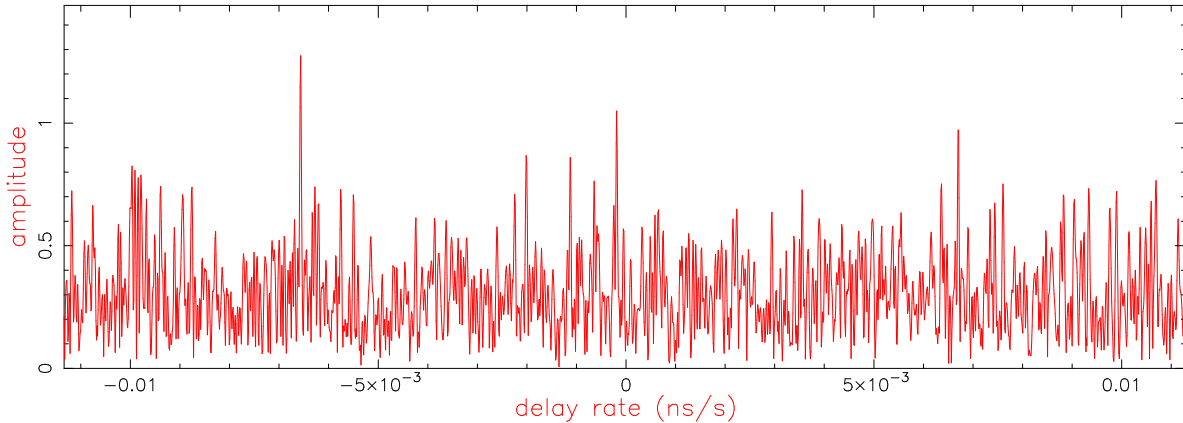
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp

Chan ids
Chan ids

Group delay (usec)(sbd)	1.24122020930E+03	Apriori delay (usec)	1.24167233712E+03	Resid mbdelay (usec)	4.34987E-06	+/-	4.9E-03
Sband delay (usec)	1.24122020378E+03	Apriori clock (usec)	6.5061703E+00	Resid sbdelay (usec)	-4.52133E-01	+/-	4.9E-03
Phase delay (usec)	1.24167233327E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-3.84946E-06	+/-	3.9E-07
Delay rate (us/s)	-2.16000774185E-01	Apriori rate (us/s)	-2.16007176831E-01	Resid rate (us/s)	6.40265E-06	+/-	2.3E-09
Total phase (deg)	44.4	Apriori accel (us/s/s)	-1.26497769602E-05	Resid phase (deg)	1.4	+/-	12.2

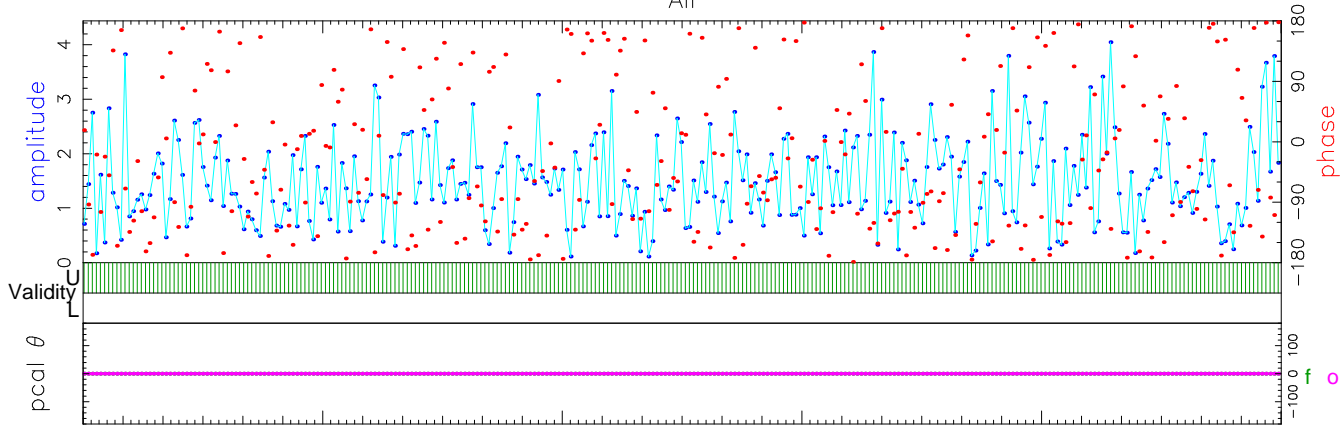
ph/seg (deg)	RMS 93.0	Theor. 104.6	Amplitude Search (2048X8)	1.480 +/- 0.158	1.264	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	68.6	182.5	Interp.	0.000	1.264	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.1	Inc. seg. avg.	0.714	1.471	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	10.7	Inc. frq. avg.	1.471	1.471	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				f, v (fr/asec) 1483.100 -1388.793		Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite
				u, v (fr/asec) 1483.100 -1388.793		ion window (TEC) 0.00 0.00	simultaneous interpolator

Fringe quality 8



SNR 9.3
Int time 299.973
Amp 1.480
Phase 325.5
PFD 2.3e-13
Delays (us)
SBD -0.313223
MBD -0.000006
Fringe rate (Hz)
-0.565301
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051959
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-124.5
0.4
1522.0
U/L 586/0
f 0
o 0
f:o 0:0
f:o 0:0
f 1000
o 1000
f W03UR
o W03UL

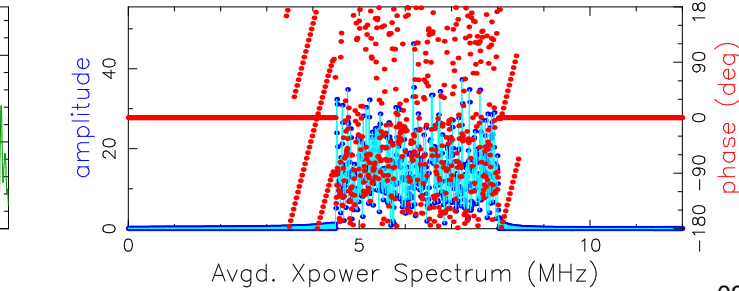
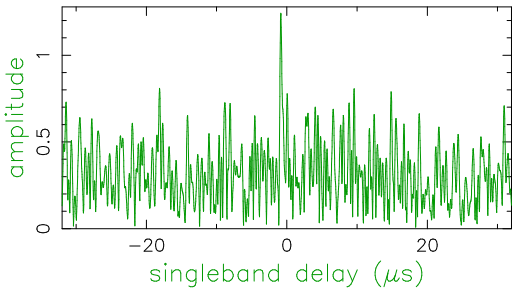
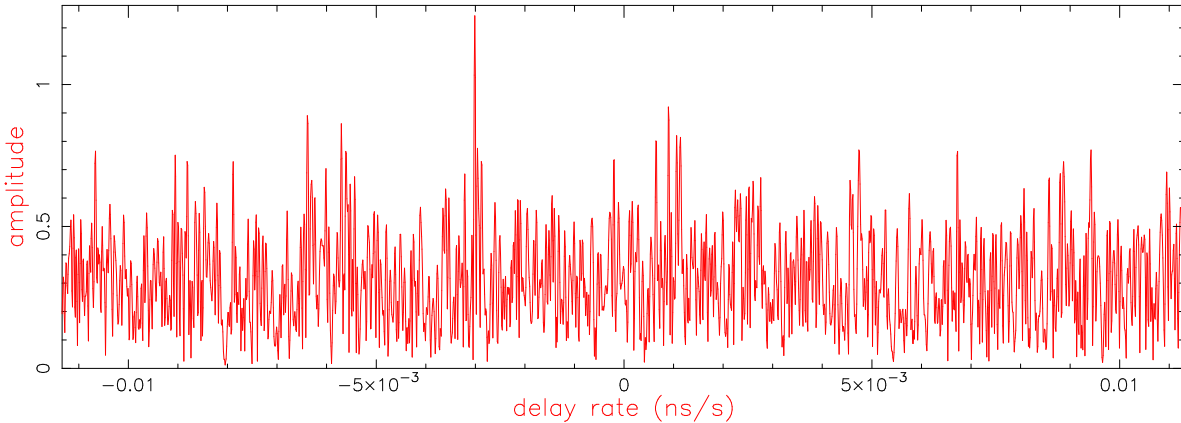
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.24135911179E+03	Apriori delay (usec)	1.24167233712E+03	Resid mbdelay (usec)	-5.57440E-06	+/- 4.9E-03
Sband delay (usec)	1.24135911445E+03	Apriori clock (usec)	6.5061703E+00	Resid sbdelay (usec)	-3.13223E-01	+/- 4.9E-03
Phase delay (usec)	1.24167233310E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-4.01555E-06	+/- 4.0E-07
Delay rate (us/s)	-2.16013739421E-01	Apriori rate (us/s)	-2.16007176831E-01	Resid rate (us/s)	-6.56259E-06	+/- 2.3E-09
Total phase (deg)	8.5	Apriori accel (us/s/s)	-1.26497769602E-05	Resid phase (deg)	325.5	+/- 12.3

ph/seg (deg)	RMS 91.1	Theor. 105.3	Amplitude 1.480 +/- 0.159	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	64.7	183.8	Search (2048X8) 1.264	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.2	Inc. seg. avg. 0.642	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.9	10.7	Inc. frq. avg. 1.461	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite
				ion window (TEC) 0.00 0.00	

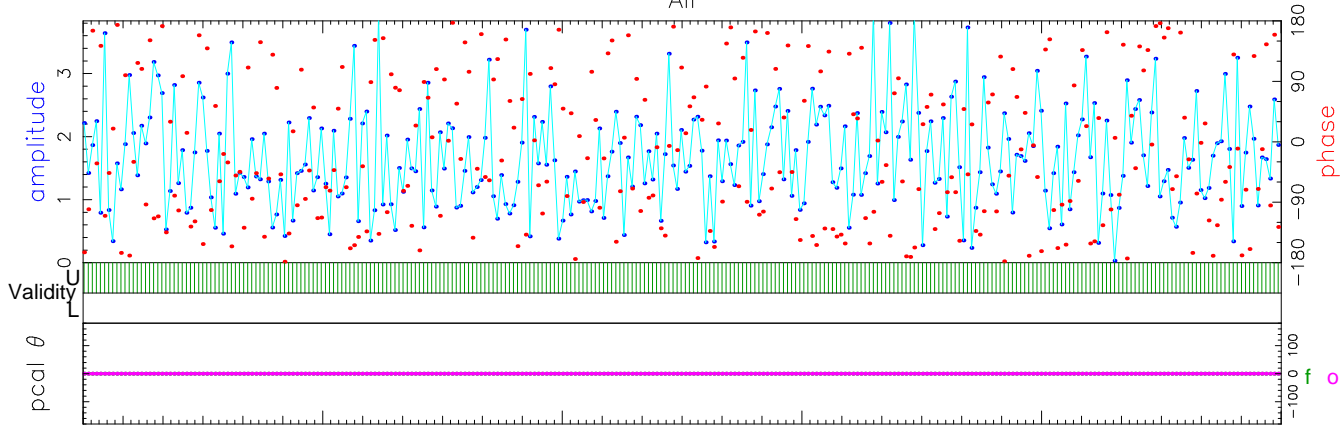
f: az 69.7 el 76.5 pa -101.8 o: az 87.7 el 65.8 pa -74.9 u,v (fr/asec) 1483.100 -1388.793 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/fo..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/fo.W.125.1T5GV4

Fringe quality 8



SNR 9.0
Int time 299.973
Amp 1.279
Phase 297.2
PFD 3.9e-12
Delays (us)
SBD -0.852593
MBD -0.000006
Fringe rate (Hz)
-0.259291
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051955
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-125.9
0.4
1496.1
U/L 586/0
f 0
o 0
f:o 0:0
fo 0:0
f 1000
o 1000
f W03UL
o W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.24081974406E+03	Apriori delay (usec)	1.24167233712E+03	Resid mbdelay (usec)	-6.27655E-06	+/-	5.1E-03
Sband delay (usec)	1.24081974378E+03	Apriori clock (usec)	6.5061703E+00	Resid sbdelay (usec)	-8.52593E-01	+/-	5.1E-03
Phase delay (usec)	1.24167233306E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-4.05875E-06	+/-	4.1E-07
Delay rate (us/s)	-2.16010186941E-01	Apriori rate (us/s)	-2.16007176831E-01	Resid rate (us/s)	-3.01011E-06	+/-	2.4E-09
Total phase (deg)	340.1	Apriori accel (us/s/s)	-1.26497769602E-05	Resid phase (deg)	297.2	+/-	12.7

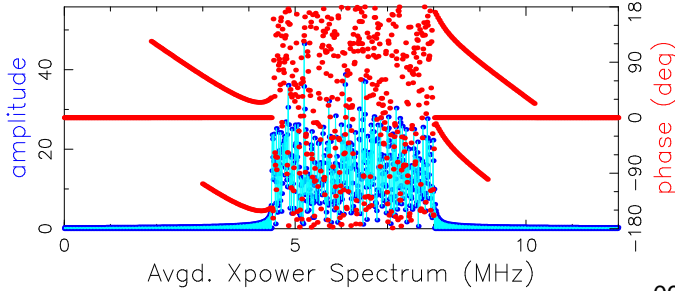
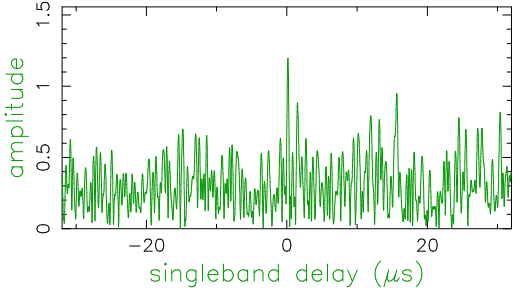
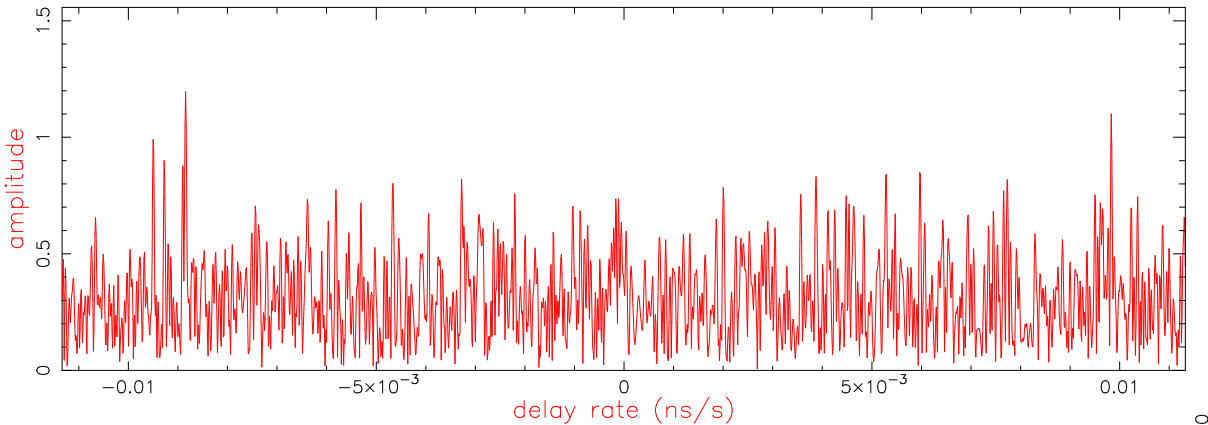
ph/seg (deg)	RMS 96.1	Theor. 108.9	Amplitude Search (2048X8)	1.279 +/- 0.142	1.236	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.1	190.1	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.4	Inc. seg. avg.	0.612	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.1	Inc. frq. avg.	1.271	Sample rate(MSamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				f, v (fr/asec) 1483.100 -1388.793	nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00	

f: az 69.7 el 76.5 pa -101.8 o: az 87.7 el 65.8 pa -74.9 u, v (fr/asec) 1483.100 -1388.793 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/fo..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/fo.W.84.1T5GV4

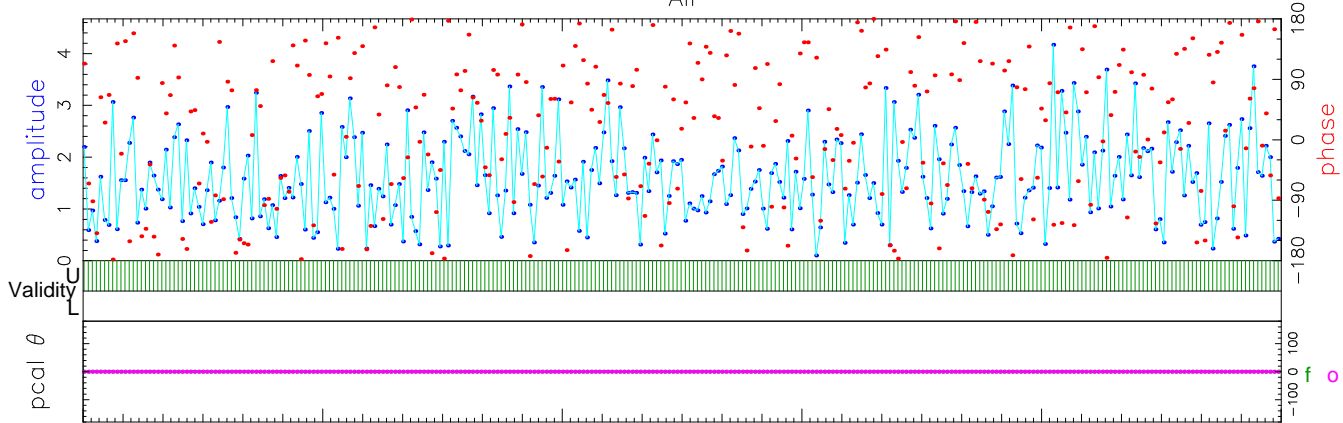
Fringe quality 8

SNR 8.7
Int time 299.973
Amp 1.557
Phase -330.9
PFD 7.2e-11
Delays (us)
SBD 0.151679
MBD -0.000005
Fringe rate (Hz)
-0.761059
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051955
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



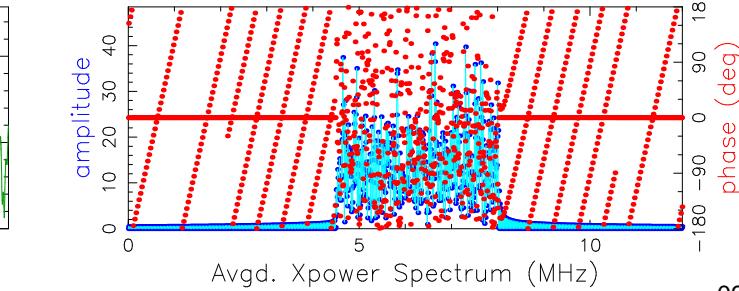
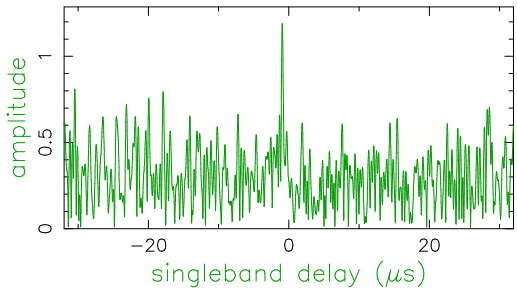
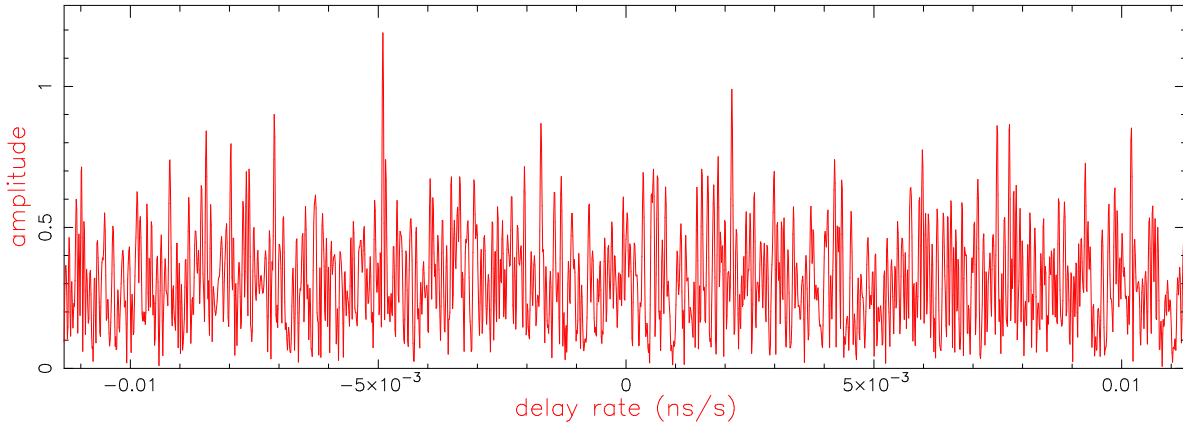
86227.00
99.8
0.5
1544.3
U/L 586/0
f 0
o 0
f:o 0:0
f:o 0:0
f 1000
o 1000
f W03UR
o W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.24182401349E+03	Apriori delay (usec)	1.24167233712E+03	Resid mbdelay (usec)	-4.65283E-06	+/-	5.3E-03
Sband delay (usec)	1.24182401578E+03	Apriori clock (usec)	6.5061703E+00	Resid sbdelay (usec)	1.51679E-01	+/-	5.3E-03
Phase delay (usec)	1.24167234034E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	3.21784E-06	+/-	4.3E-07
Delay rate (us/s)	-2.16016011972E-01	Apriori rate (us/s)	-2.16007176831E-01	Resid rate (us/s)	-8.83514E-06	+/-	2.5E-09
Total phase (deg)	-287.9	Apriori accel (us/s/s)	-1.26497769602E-05	Resid phase (deg)	-330.9	+/-	13.2

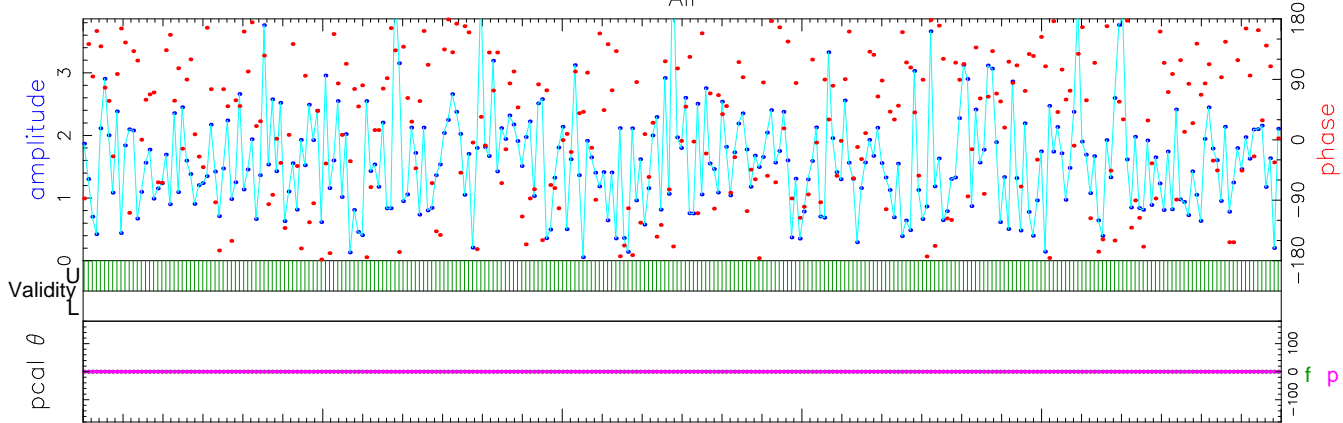
ph/seg (deg)	RMS 95.7	Theor. 113.0	Amplitude Search (2048X8)	1.189	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	76.3	197.3	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.708	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	11.5	Inc. frq. avg.	1.546	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

Fringe quality 8



SNR 8.6
Int time 299.973
Amp 1.287
Phase 114.6
PFD 1.0e-10
Delays (us)
SBD -0.931653
MBD -0.000004
Fringe rate (Hz)
-0.421731
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051956
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
95.4
0.4
1492.3
U/L 586/0
f 0
p 0
f:p 0:0
f:p 0:0
f 1000
p 1000
f W03UR
p W03UR

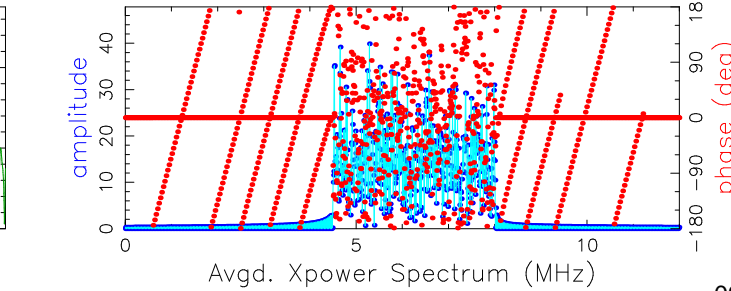
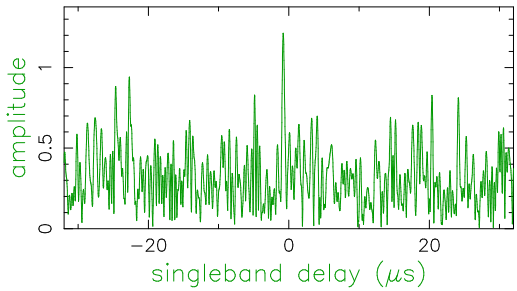
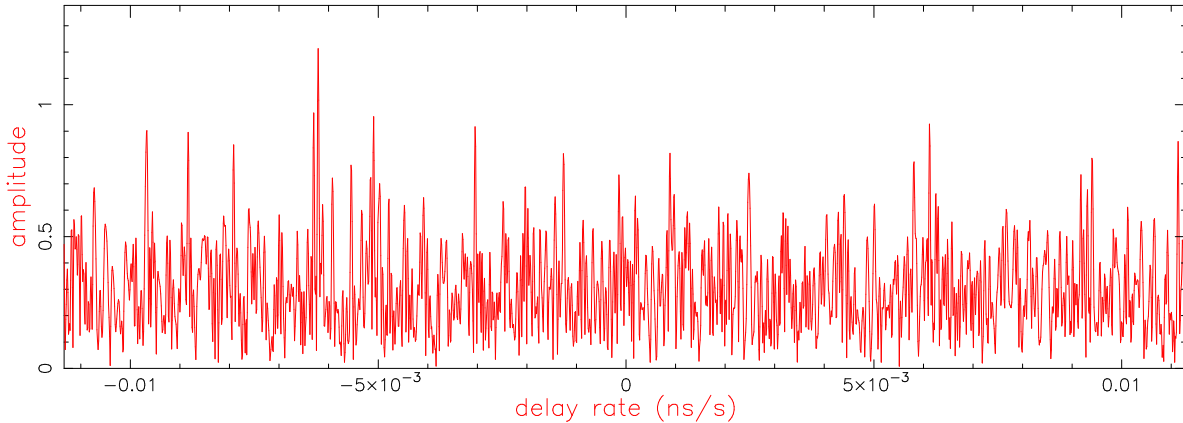
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	2.38348852515E+02	Apriori delay (usec)	2.39280502410E+02	Resid mbdelay (usec)	-4.35427E-06	+/- 5.3E-03
Sband delay (usec)	2.38348849077E+02	Apriori clock (usec)	4.7301693E+00	Resid sbdelay (usec)	-9.31653E-01	+/- 5.3E-03
Phase delay (usec)	2.39280505488E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	3.07781E-06	+/- 4.3E-07
Delay rate (us/s)	-6.29578623605E-02	Apriori rate (us/s)	-6.29529664852E-02	Resid rate (us/s)	-4.89588E-06	+/- 2.5E-09
Total phase (deg)	286.5	Apriori accel (us/s/s)	-4.69034350404E-06	Resid phase (deg)	114.6	+/- 13.3

ph/seg (deg)	RMS 93.8	Theor. 113.6	Amplitude 1.287 +/- 0.149	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	76.9	198.3	Search (2048X8) 1.174	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.6	Inc. seg. avg. 0.582	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
			Inc. frq. avg. 1.278	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

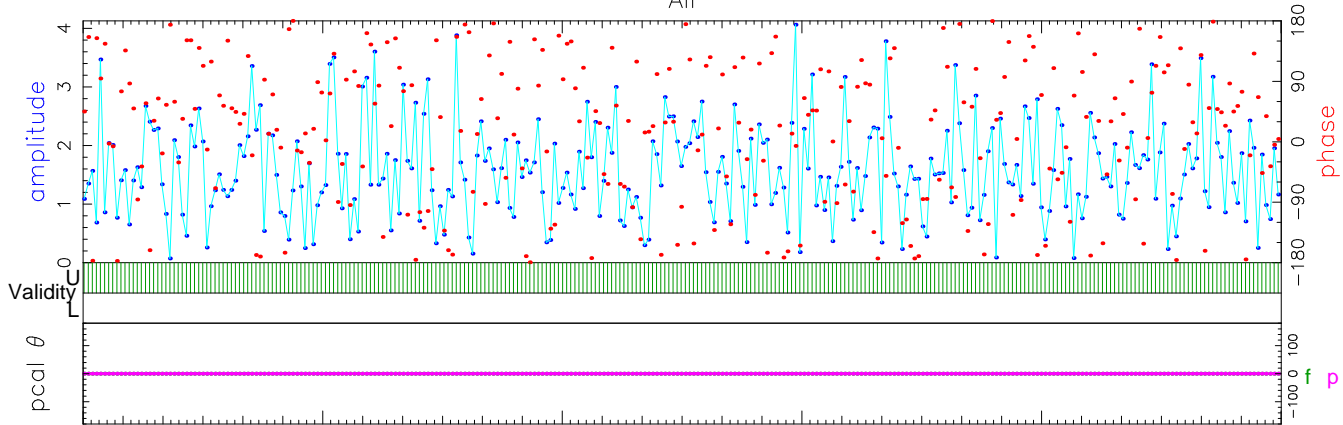
f: az 69.7 el 76.5 pa -101.8 p: az 84.0 el 73.9 pa -85.4 u,v (fr/asec) 431.120 -650.277 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/fp..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/fp.W.101.1T5GV4

Fringe quality 8



SNR 8.8
Int time 299.973
Amp 1.377
Phase 258.1
PFD 2.4e-11
Delays (us)
SBD -0.798705
MBD -0.000006
Fringe rate (Hz)
-0.534296
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051957
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
83.0
0.4
1498.7
U/L 586/0
f 0
p 0
f:p 0:0
fp 0:0
f 1000
p 1000
f W03UL
p W03UR

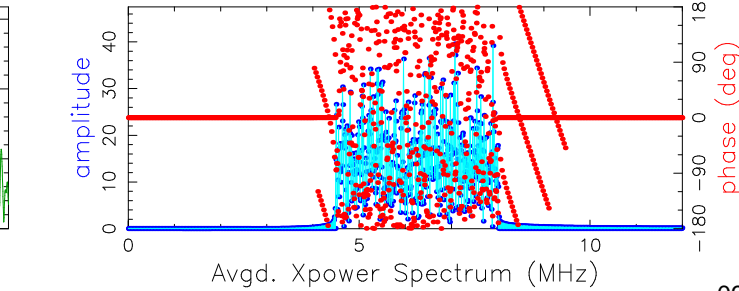
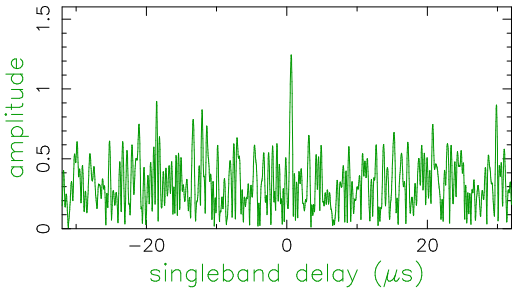
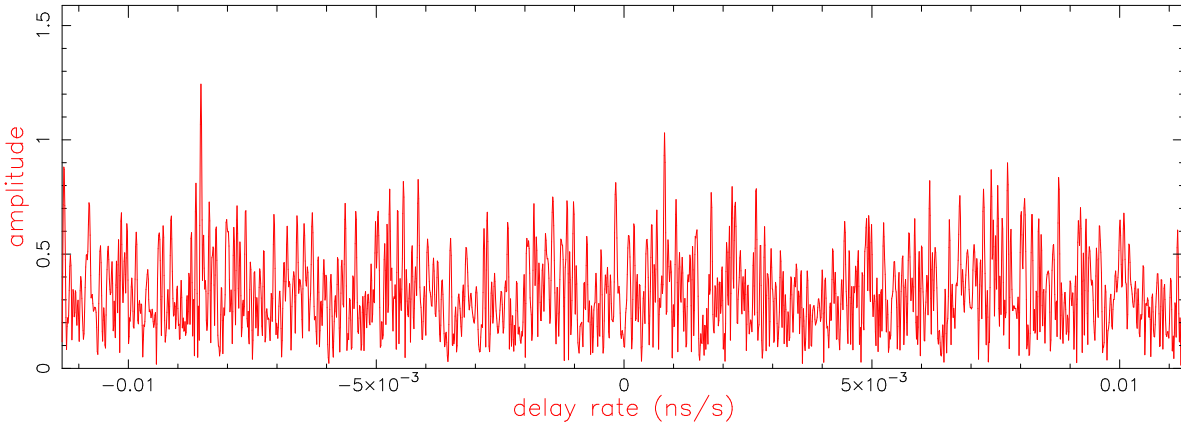
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	2.38481802378E+02	Apriori delay (usec)	2.39280502410E+02	Resid mbdelay (usec)	-5.88753E-06	+/- 5.2E-03
Sband delay (usec)	2.38481797077E+02	Apriori clock (usec)	4.7301693E+00	Resid sbdelay (usec)	-7.98705E-01	+/- 5.2E-03
Phase delay (usec)	2.39280505085E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	2.67528E-06	+/- 4.2E-07
Delay rate (us/s)	-6.29591691264E-02	Apriori rate (us/s)	-6.29529664852E-02	Resid rate (us/s)	-6.20264E-06	+/- 2.4E-09
Total phase (deg)	70.0	Apriori accel (us/s/s)	-4.69034350404E-06	Resid phase (deg)	258.1	+/- 13.0

ph/seg (deg)	RMS 90.7	Theor. 111.4	Amplitude Search (2048X8)	1.377 +/- 0.156	1.192	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	72.7	194.5	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Inc. seg. avg.	0.620	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.4	Inc. frq. avg.	1.367	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
			f, v (fr/asec) 431.120 -650.277		nlags: 1536 t_cohere infinite		ion window (TEC) 0.00 0.00

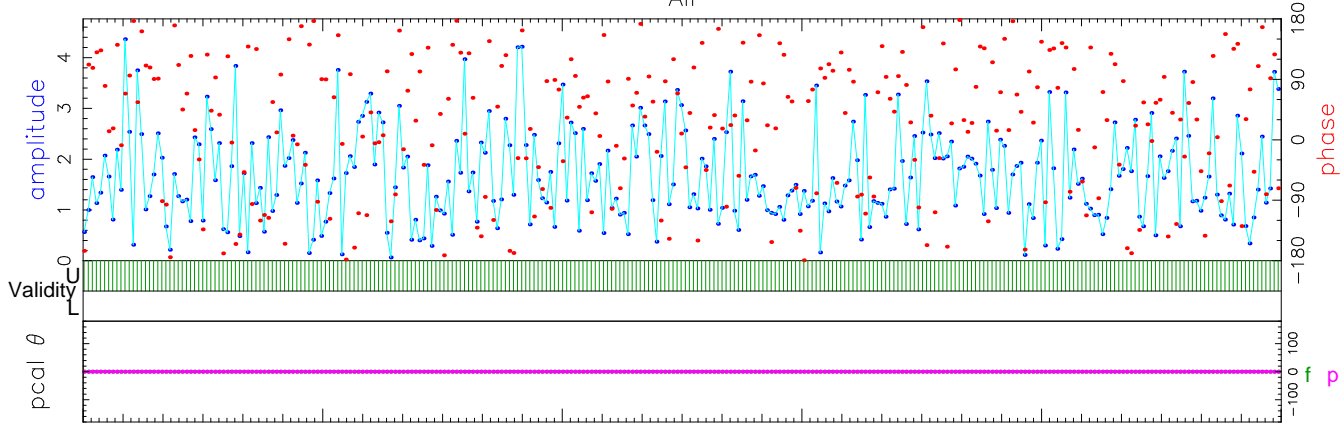
f: az 69.7 el 76.5 pa -101.8 p: az 84.0 el 73.9 pa -85.4 u, v (fr/asec) 431.120 -650.277 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/fp..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/fp.W.107.1T5GV4

Fringe quality 8



SNR 9.0
Int time 299.973
Amp 1.588
Phase -32.9
PFD 3.4e-12
Delays (us)
SBD 0.624344
MBD -0.000005
Fringe rate (Hz)
-0.734255
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051958
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
81.8
0.5
1567.0
U/L 586/0
f 0
p 0
f:p 0:0
fp 0:0
f 1000
p 1000
f W03UR
p W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	2.39904849557E+02	Apriori delay (usec)	2.39280502410E+02	Resid mbdelay (usec)	-4.85444E-06	+/-	5.1E-03
Sband delay (usec)	2.39904846410E+02	Apriori clock (usec)	4.7301693E+00	Resid sbdelay (usec)	6.24344E-01	+/-	5.1E-03
Phase delay (usec)	2.39280505049E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	2.63930E-06	+/-	4.1E-07
Delay rate (us/s)	-6.29614904618E-02	Apriori rate (us/s)	-6.29529664852E-02	Resid rate (us/s)	-8.52398E-06	+/-	2.4E-09
Total phase (deg)	-220.9	Apriori accel (us/s/s)	-4.69034350404E-06	Resid phase (deg)	-32.9	+/-	12.7

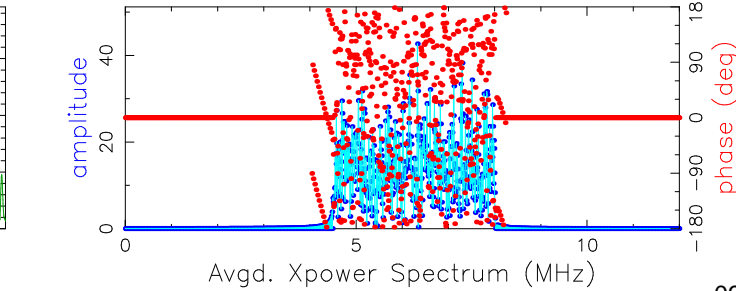
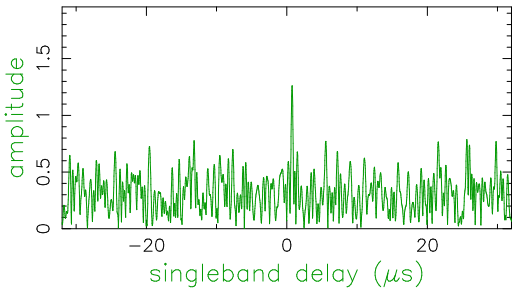
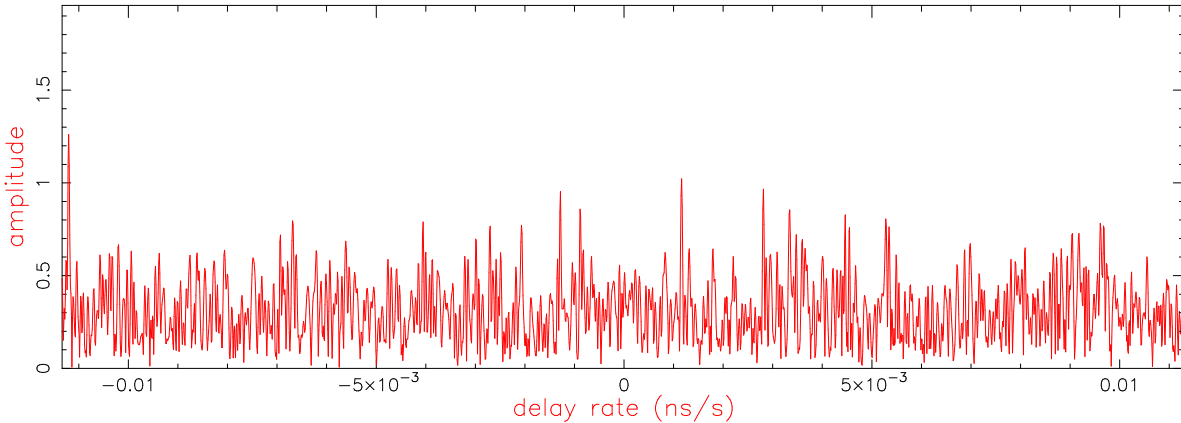
ph/seg (deg)	RMS 91.2	Theor. 108.7	Amplitude Search (2048X8)	1.588 +/- 0.176	1.239	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	80.4	189.8	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.4	Inc. seg. avg.	0.760	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.1	Inc. frq. avg.	1.579	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
				f, v (fr/asec) 431.120 -650.277	ion window (TEC) 0.00 0.00		

f: az 69.7 el 76.5 pa -101.8 p: az 84.0 el 73.9 pa -85.4 u, v (fr/asec) 431.120 -650.277 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/fp..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/fp.W.112.1T5GV4

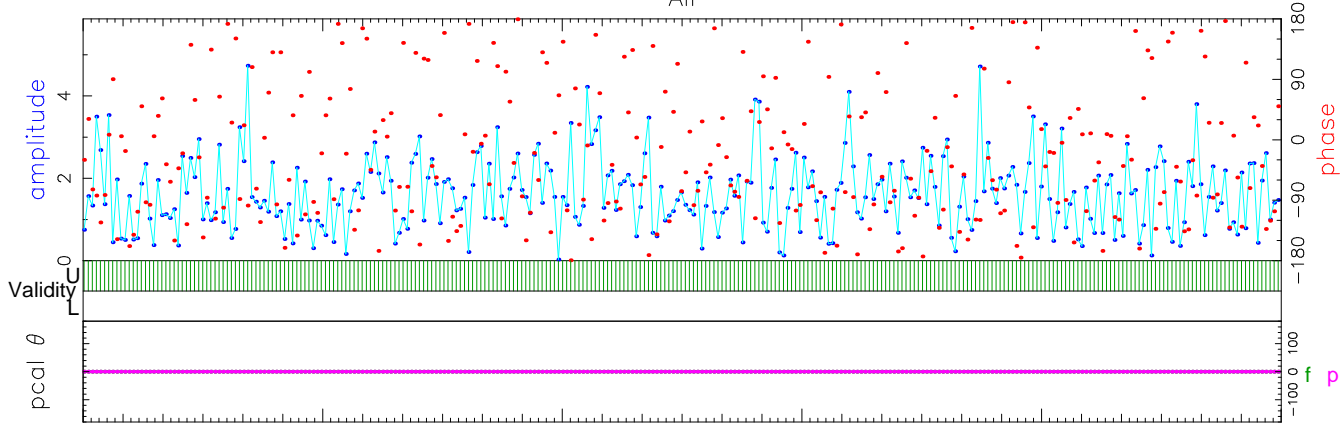
Fringe quality 8

SNR 9.1
Int time 299.973
Amp 1.957
Phase -147.4
PFD 1.1e-12
Delays (us)
SBD 0.749324
MBD -0.000005
Fringe rate (Hz)
-0.964317
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051955
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

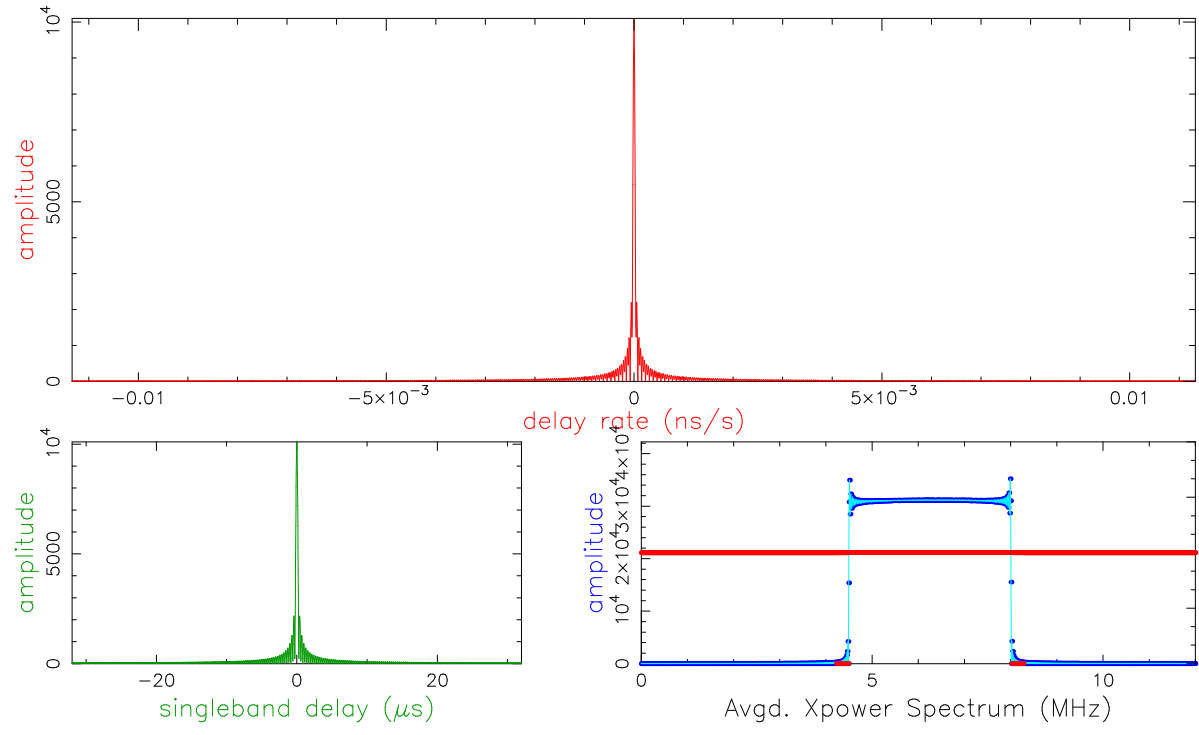


86227.00
-78.6
0.6
1573.0
U/L 586/0
f 0
p 0
f:p 0:0
fp 0:0
f 1000
p 1000
f W03UL
p W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

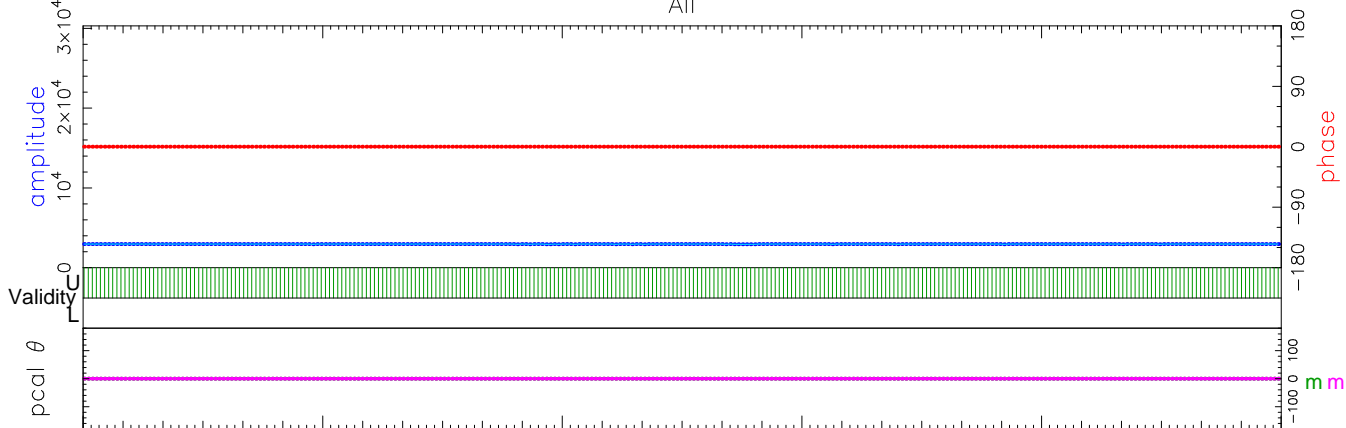
Group delay (usec)(sbd)	2.40029821986E+02	Apriori delay (usec)	2.39280502410E+02	Resid mbdelay (usec)	-4.88172E-06	+/- 5.0E-03
Sband delay (usec)	2.40029826410E+02	Apriori clock (usec)	4.7301693E+00	Resid sbdelay (usec)	7.49324E-01	+/- 5.0E-03
Phase delay (usec)	2.39280499876E+02	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-2.53379E-06	+/- 4.0E-07
Delay rate (us/s)	-6.29641612464E-02	Apriori rate (us/s)	-6.29529664852E-02	Resid rate (us/s)	-1.11948E-05	+/- 2.3E-09
Total phase (deg)	-335.5	Apriori accel (us/s/s)	-4.69034350404E-06	Resid phase (deg)	-147.4	+/- 12.5

ph/seg (deg)	RMS 90.8	Theor. 107.2	Amplitude Search (2048X8)	1.957 +/- 0.214	1.252	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	75.4	187.1	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.3	Inc. seg. avg.	0.921	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.9	Inc. frq. avg.	1.946	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
f: az 69.7 el 76.5 pa -101.8	p: az 84.0 el 73.9 pa -85.4	u, v (fr/asec) 431.120 -650.277					ion window (TEC) 0.00 0.00



Fringe quality 5
SNR 73266.8
Int time 299.983
Amp 10104.281
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051957
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

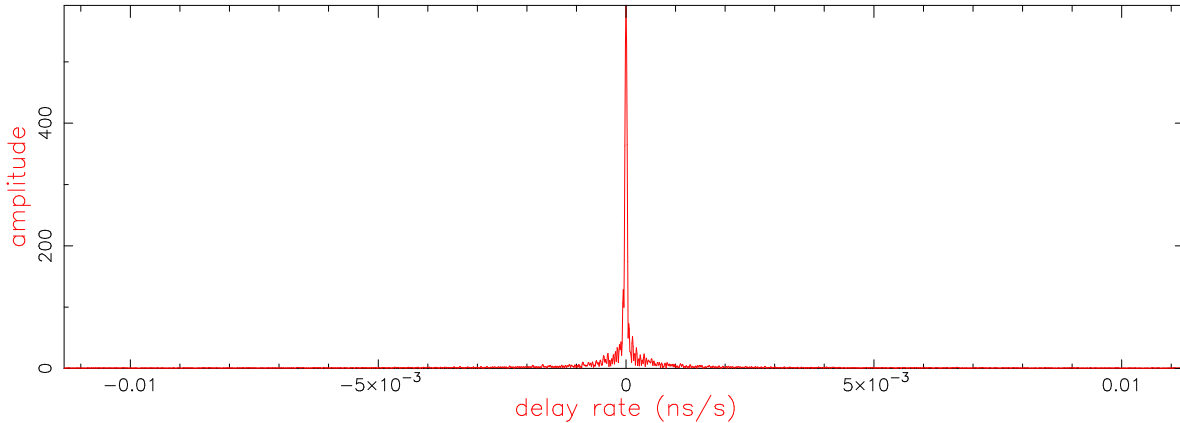


86227.00		Freq (MHz)
0.2		Phase
2960.2		Ampl.
1537.0		Sbd box
U/L 586/0		APs used
m 0		PC freqs
m 0		PC freqs
m:m 0:0		PC phase
m:m 0:0		ManI PC
m 1000		PC amp
m 1000		
m W03UR		Chan ids
m		
m W03UR		Chan ids

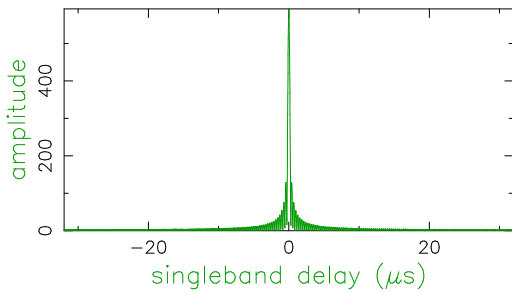
Group delay (usec)(sbd)	4.35153722152E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.24576E-06	+/-	6.3E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	7.82279453091E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.82279E-09	+/-	5.0E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10104.280 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10104.280	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2960.238	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10104.280	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

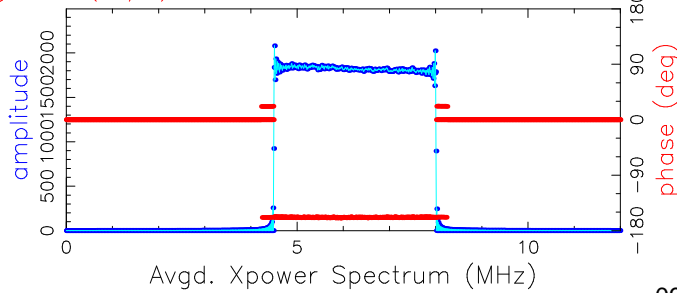
Fringe quality 5



SNR 4294.6
Int time 299.983
Amp 592.268
Phase -166.2
PFD 0.0e+00
Delays (us)
SBD 0.000257
MBD -0.000007
Fringe rate (Hz)
0.000090
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

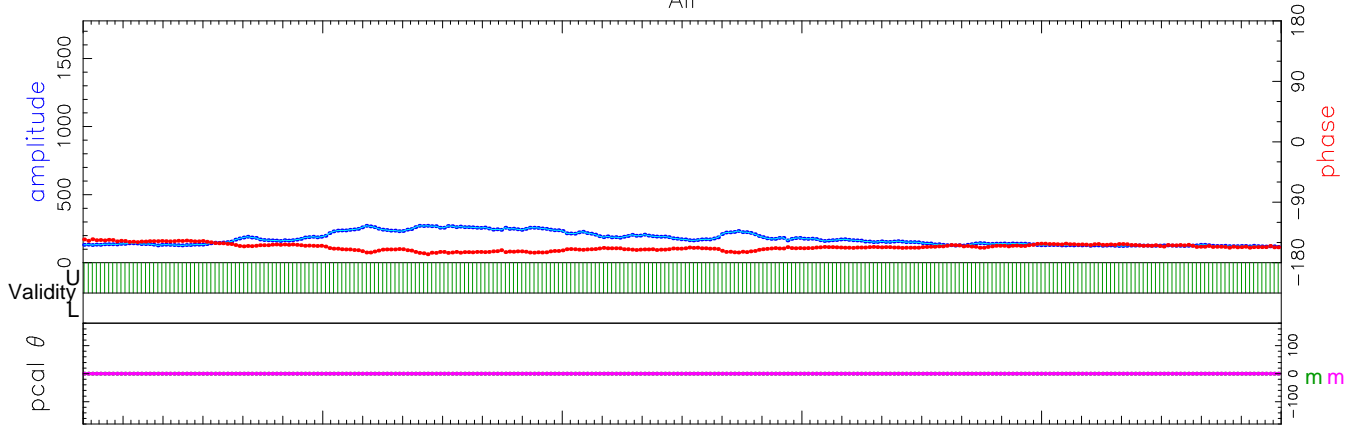


delay rate (ns/s)



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051958
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-157.8
173.5
1537.0
U/L 586/0
m 0
m 0
m:m 0:0
m:m 0:0
m 1000
m 1000
m W03UL
m
m W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	2.59906525798E-04	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.83127E-06	+/-	1.1E-05
Sband delay (usec)	2.57333333333E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	2.57333E-04	+/-	1.1E-05
Phase delay (usec)	-5.08858433371E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.08858E-06	+/-	8.6E-10
Delay rate (us/s)	1.04866527698E-09	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	1.04867E-09	+/-	5.0E-12
Total phase (deg)	-166.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-166.2	+/-	0.0

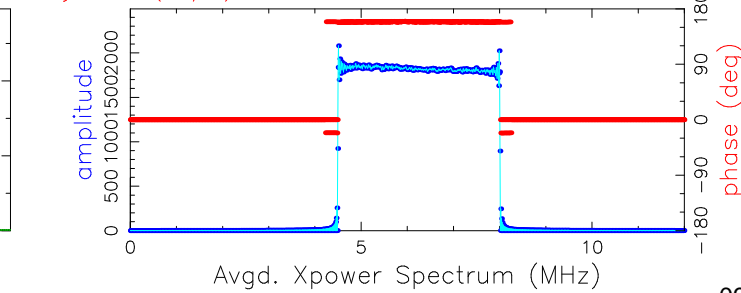
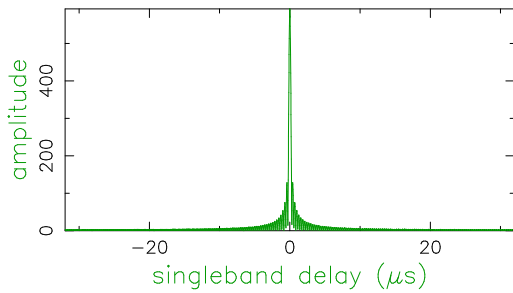
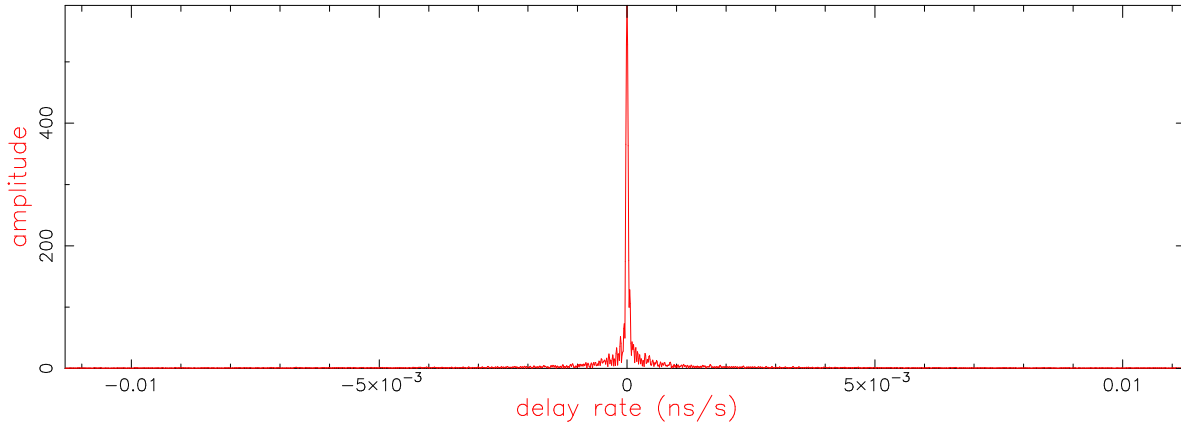
ph/seg (deg)	5.0	RMS	592.268 +/- 0.138	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	71.0	Theor.	591.667	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	Search (2048X8)	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	Inc. seg. avg.	174.154	Sample rate(MISamp/s):	24	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	592.267	Data rate(Mb/s):	48	ion window (TEC)	0.00 0.00	

m: az 60.9 el 29.7 pa -85.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/mm..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/mm.W.113.1T5GV4

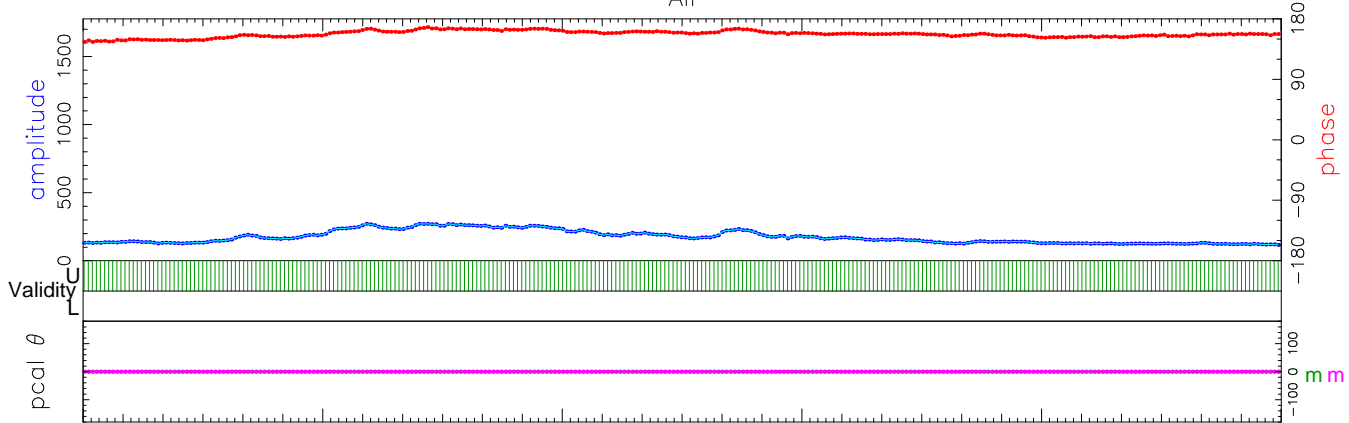
Fringe quality 5

SNR 4294.6
Int time 299.983
Amp 592.268
Phase 166.3
PFD 0.0e+00
Delays (us)
SBD -0.000257
MBD -0.000007
Fringe rate (Hz)
-0.000090
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051958
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
158.3
173.5
1537.0
U/L 586/0
m 0
m 0
m:m 0:0
m:m 0:0
m 1000
m 1000
m W03UR
m W03UL

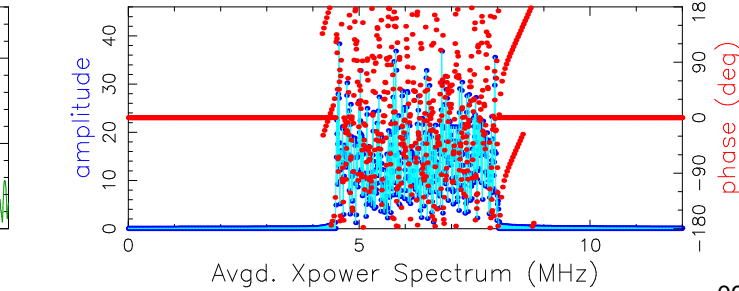
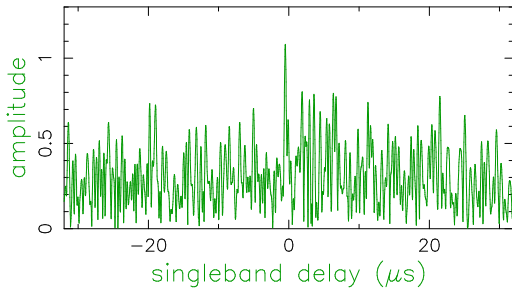
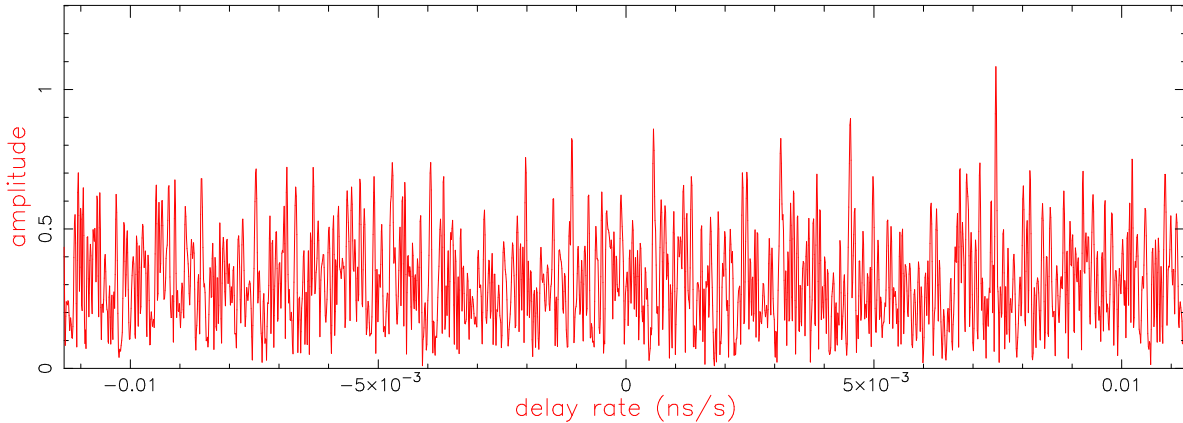
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.62367077598E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.22658E-06	+/-	1.1E-05
Sband delay (usec)	-2.57333333333E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-2.57333E-04	+/-	1.1E-05
Phase delay (usec)	5.10376171673E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.10376E-06	+/-	8.6E-10
Delay rate (us/s)	-1.04866527698E-09	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-1.04867E-09	+/-	5.0E-12
Total phase (deg)	166.3	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	166.3	+/-	0.0

ph/seg (deg)	5.0	Theor.	0.2	Amplitude	592.268 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	71.0		0.4	Search (2048X8)	591.667	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	174.154	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	592.267	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

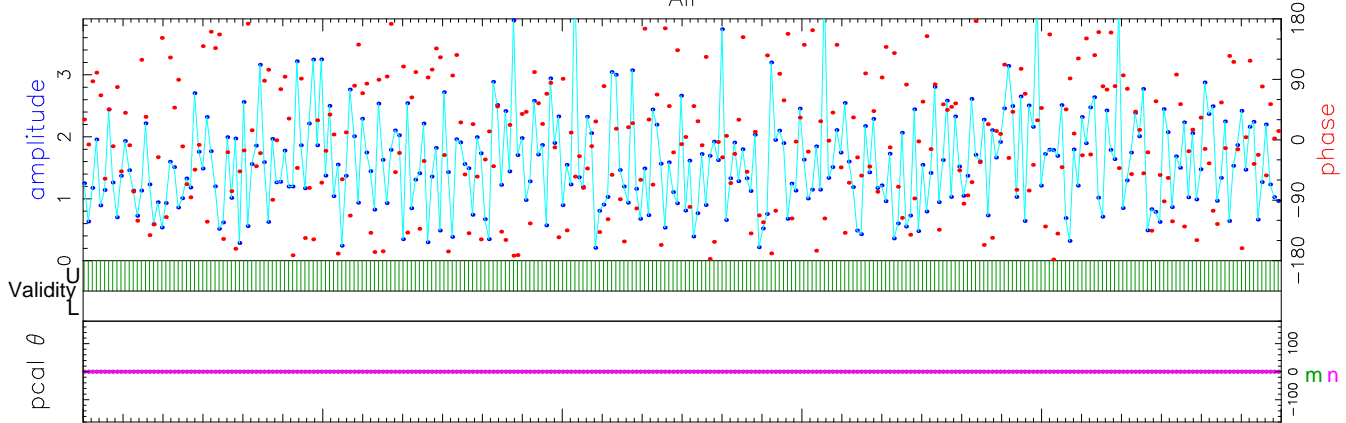
m: az 60.9 el 29.7 pa -85.7 m: az 60.9 el 29.7 pa -85.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/mm..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/mm.W.118.1T5GV4

Fringe quality 8



SNR 7.8
Int time 299.972
Amp 1.302
Phase 261.3
PFD 6.9e-08
Delays (us)
SBD -0.502865
MBD 0.000005
Fringe rate (Hz)
0.642582
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051958
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-8.6
0.4
1512.9
U/L 586/0
m 0
n 0
m:n 0:0
m:n 0:0
m 1000
n 1000
m W03UR
n W03UR

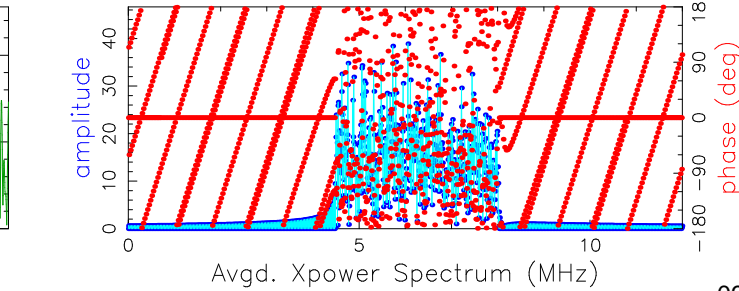
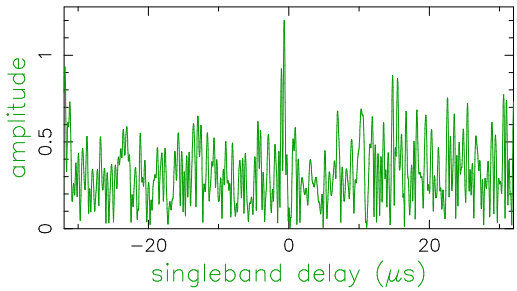
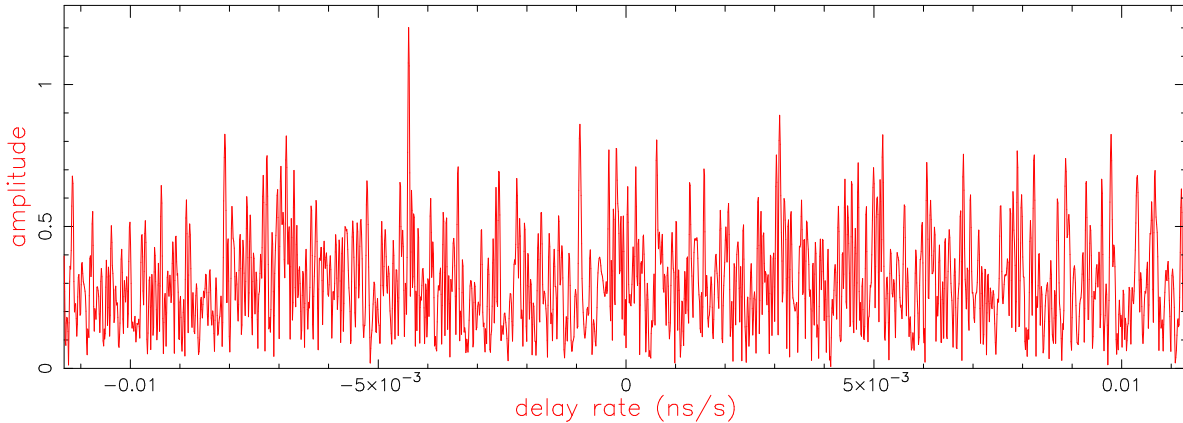
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.02949812276E+04	Apriori delay (usec)	-1.02944783620E+04	Resid mbdelay (usec)	4.76519E-06	+/-	5.9E-03
Sband delay (usec)	-1.02949812273E+04	Apriori clock (usec)	1.0233000E+01	Resid sbdelay (usec)	-5.02865E-01	+/-	5.9E-03
Phase delay (usec)	-1.02944783623E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.76512E-07	+/-	4.7E-07
Delay rate (us/s)	1.06552988480E+00	Apriori rate (us/s)	1.06552242507E+00	Resid rate (us/s)	7.45974E-06	+/-	2.7E-09
Total phase (deg)	224.2	Apriori accel (us/s/s)	3.39571328574E-05	Resid phase (deg)	261.3	+/-	14.6

ph/seg (deg)	RMS 93.3	Theor. 125.0	Amplitude Search (2048X8)	1.302 +/- 0.166	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	87.9	218.2	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	7.3	Inc. seg. avg.	0.570	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	12.7	Inc. frq. avg.	1.291	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

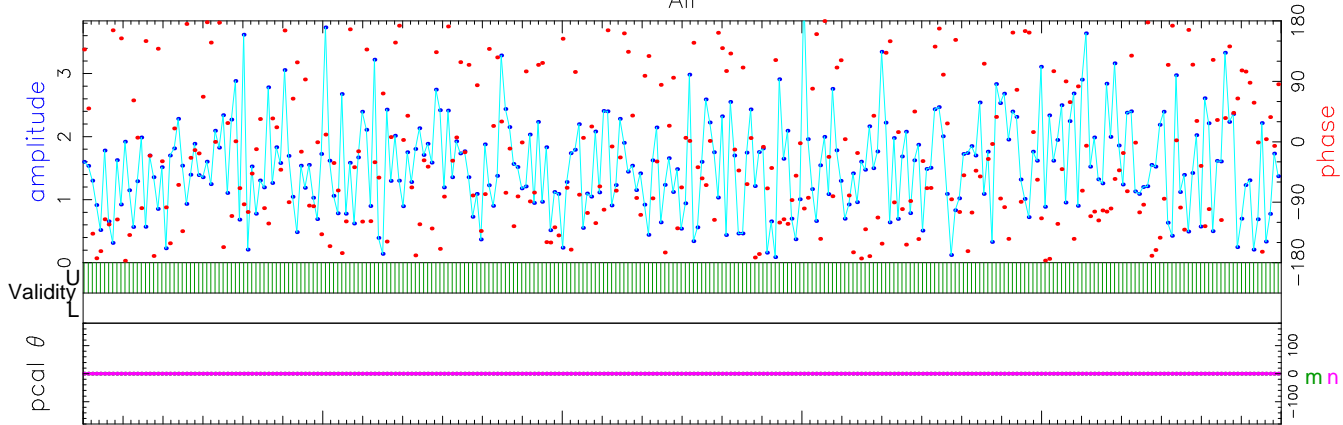
m: az 60.9 el 29.7 pa -85.7 n: az 161.1 el 82.3 pa -16.2 u,v (fr/asec) -7346.864 -507.735 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/mn..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/mn.W.117.1T5GV4

Fringe quality 8



SNR 8.7
Int time 299.972
Amp 1.279
Phase 145.9
PFD 5.1e-11
Delays (us)
SBD -0.662959
MBD -0.000005
Fringe rate (Hz)
-0.377742
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051959
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



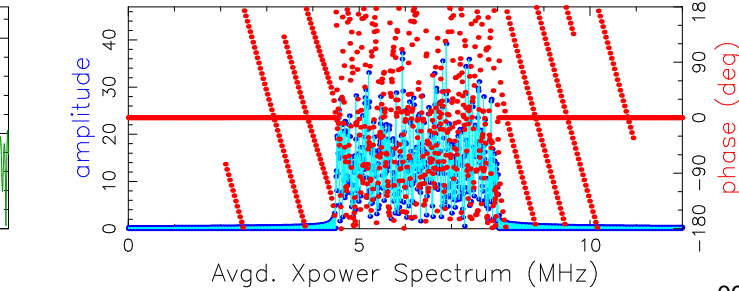
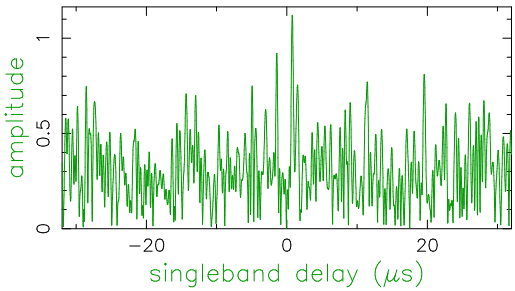
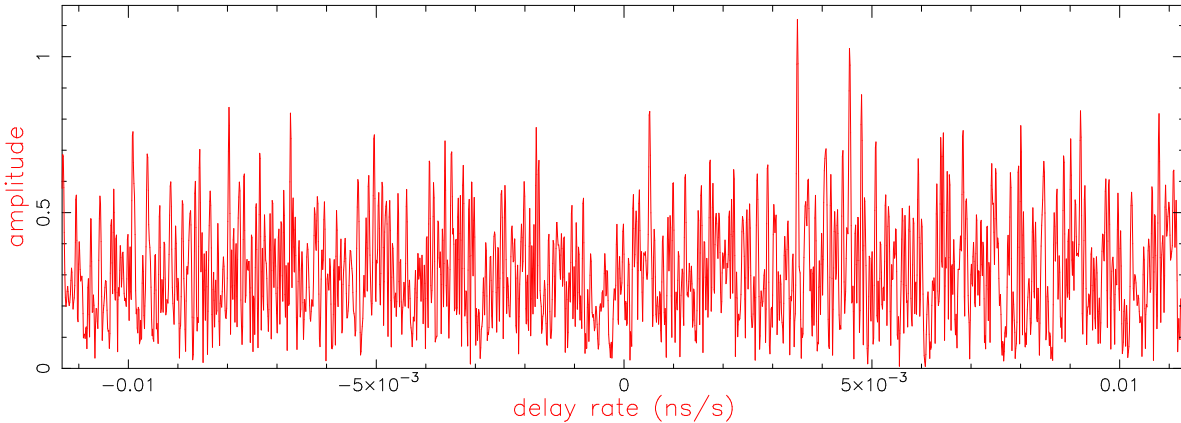
86227.00
-98.0
0.4
1505.2
U/L 586/0
m 0
n 0
m:n 0:0
m:n 0:0
m 1000
n 1000
m W03UL
n W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.02951413262E+04	Apriori delay (usec)	-1.02944783620E+04	Resid mbdelay (usec)	-4.79117E-06	+/-	5.3E-03
Sband delay (usec)	-1.02951413207E+04	Apriori clock (usec)	1.0233000E+01	Resid sbdelay (usec)	-6.62959E-01	+/-	5.3E-03
Phase delay (usec)	-1.02944783652E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.16145E-06	+/-	4.2E-07
Delay rate (us/s)	1.06551803985E+00	Apriori rate (us/s)	1.06552242507E+00	Resid rate (us/s)	-4.38521E-06	+/-	2.4E-09
Total phase (deg)	108.7	Apriori accel (us/s/s)	3.39571328574E-05	Resid phase (deg)	145.9	+/-	13.1

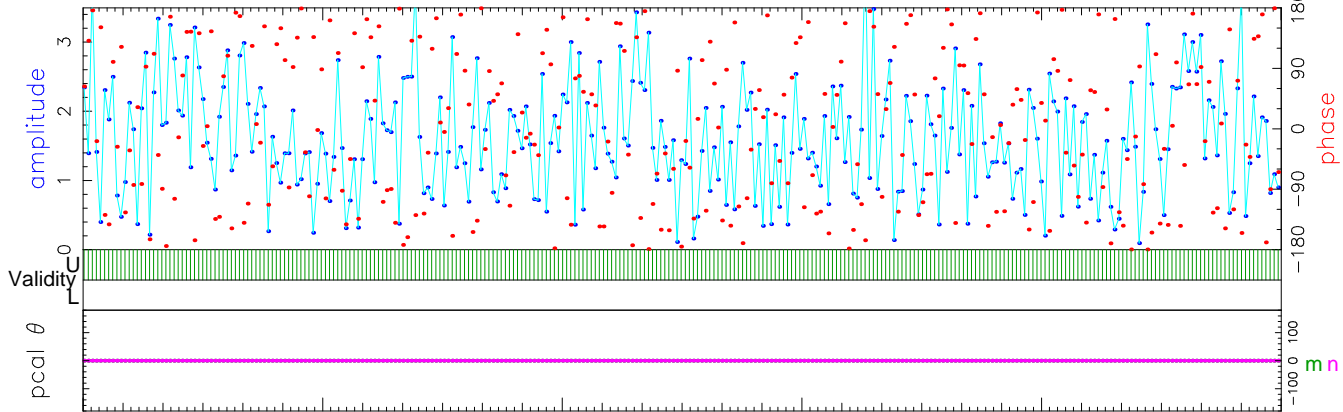
ph/seg (deg)	RMS 91.5	Theor. 112.5	Amplitude Search (2048X8)	1.279 +/- 0.147	1.191	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	69.6	196.4	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.562	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.5	Inc. frq. avg.	1.270	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				m: az 60.9 el 29.7 pa -85.7	n: az 161.1 el 82.3 pa -16.2	u,v (fr/asec) -7346.864 -507.735	ion window (TEC) 0.00 0.00

Fringe quality 8



SNR 8.1
Int time 299.972
Amp 1.165
Phase -245.2
PFD 7.7e-09
Delays (us)
SBD 0.772191
MBD 0.000007
Fringe rate (Hz) 0.301283
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051959
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



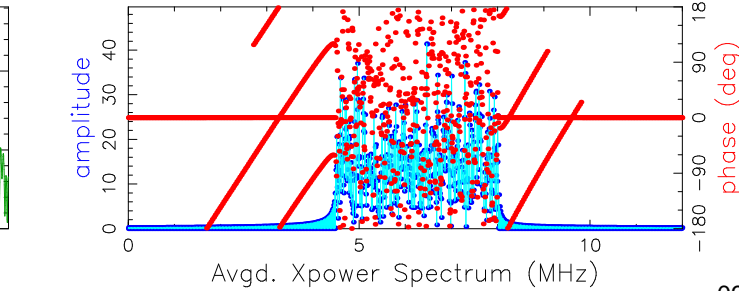
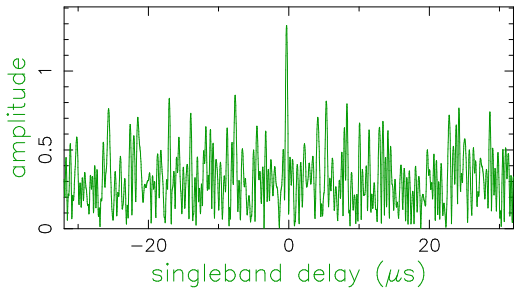
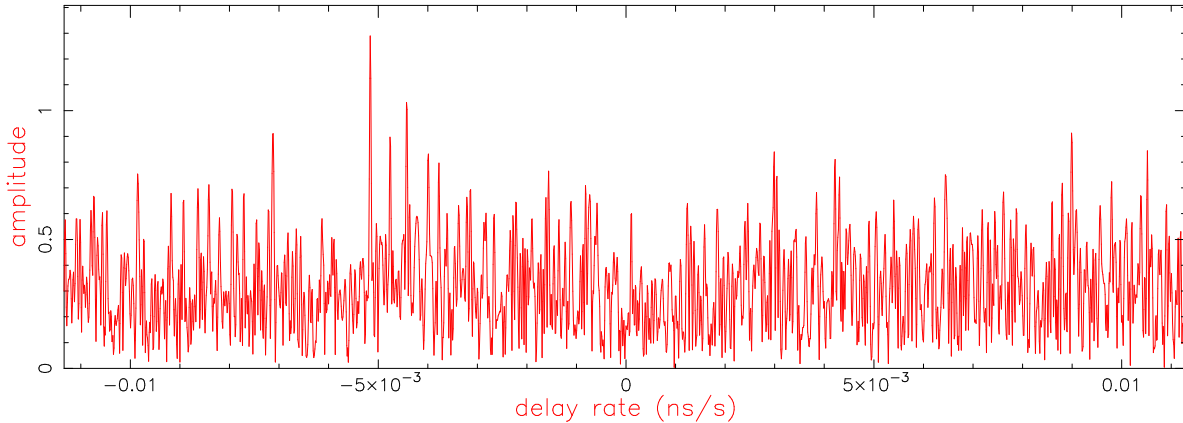
86227.00
179.6
0.3
1574.1
U/L 586/0
m 0
n 0
m:n 0:0
m:n 0:0
m 1000
n 1000
m W03UR
n W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.02937061726E+04	Apriori delay (usec)	-1.02944783620E+04	Resid mbdelay (usec)	6.65444E-06	+/-	5.7E-03
Sband delay (usec)	-1.02937061713E+04	Apriori clock (usec)	1.0233000E+01	Resid sbdelay (usec)	7.72191E-01	+/-	5.7E-03
Phase delay (usec)	-1.02944783562E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.79050E-06	+/-	4.6E-07
Delay rate (us/s)	1.06552592266E+00	Apriori rate (us/s)	1.06552242507E+00	Resid rate (us/s)	3.49759E-06	+/-	2.6E-09
Total phase (deg)	-282.3	Apriori accel (us/s/s)	3.39571328574E-05	Resid phase (deg)	-245.2	+/-	14.1

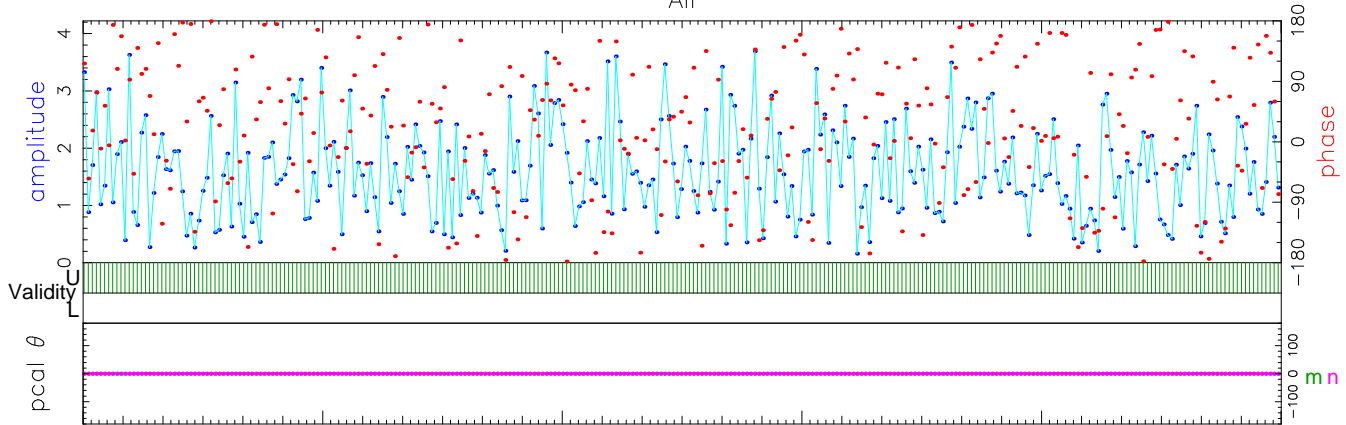
ph/seg (deg)	RMS 95.8	Theor. 120.8	Amplitude Search (2048X8)	1.113	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	85.0	210.8	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	7.1	Inc. seg. avg.	0.521	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	12.3	Inc. frq. avg.	1.156	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

Fringe quality 8



SNR 9.4
Int time 299.972
Amp 1.408
Phase 52.9
PFD 1.5e-13
Delays (us)
SBD -0.321481
MBD -0.000007
Fringe rate (Hz)
-0.444099
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051956
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

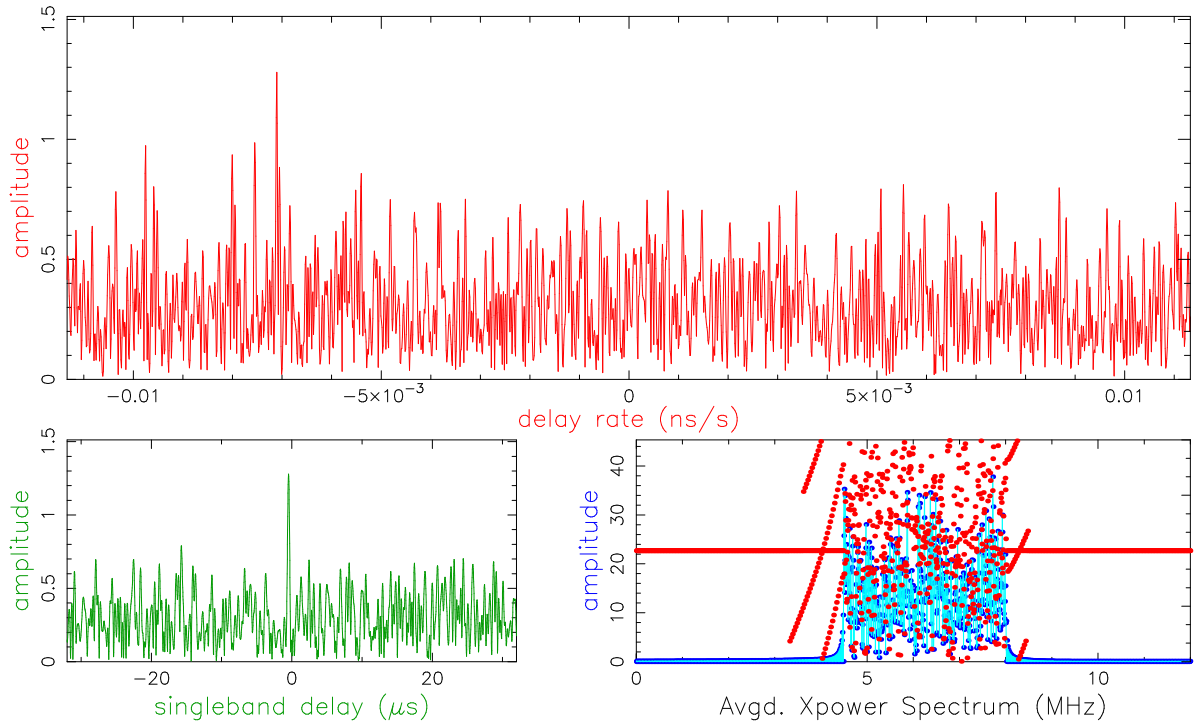


86227.00
64.3
0.4
1521.6
U/L 586/0
m 0
n 0
m:n 0:0
m:n 0:0
m 1000
n 1000
m W03UL
n W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.02947998457E+04	Apriori delay (usec)	-1.02944783620E+04	Resid mbdelay (usec)	-6.65713E-06	+/-	4.9E-03
Sband delay (usec)	-1.02947998433E+04	Apriori clock (usec)	1.0233000E+01	Resid sbdelay (usec)	-3.21481E-01	+/-	4.9E-03
Phase delay (usec)	-1.02944783599E+04	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.07253E-06	+/-	3.9E-07
Delay rate (us/s)	1.06551726952E+00	Apriori rate (us/s)	1.06552242507E+00	Resid rate (us/s)	-5.15555E-06	+/-	2.3E-09
Total phase (deg)	15.8	Apriori accel (us/s/s)	3.39571328574E-05	Resid phase (deg)	52.9	+/-	12.2

ph/seg (deg)	RMS 91.1	Theor. 104.7	Amplitude Search (2048X8)	1.408 +/- 0.150	1.267	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	67.5	182.8	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.1	Inc. seg. avg.	0.654	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.7	Inc. frq. avg.	1.398	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
m: az 60.9 el 29.7 pa -85.7		n: az 161.1 el 82.3 pa -16.2		u,v (fr/asec) -7346.864 -507.735			ion window (TEC) 0.00 0.00

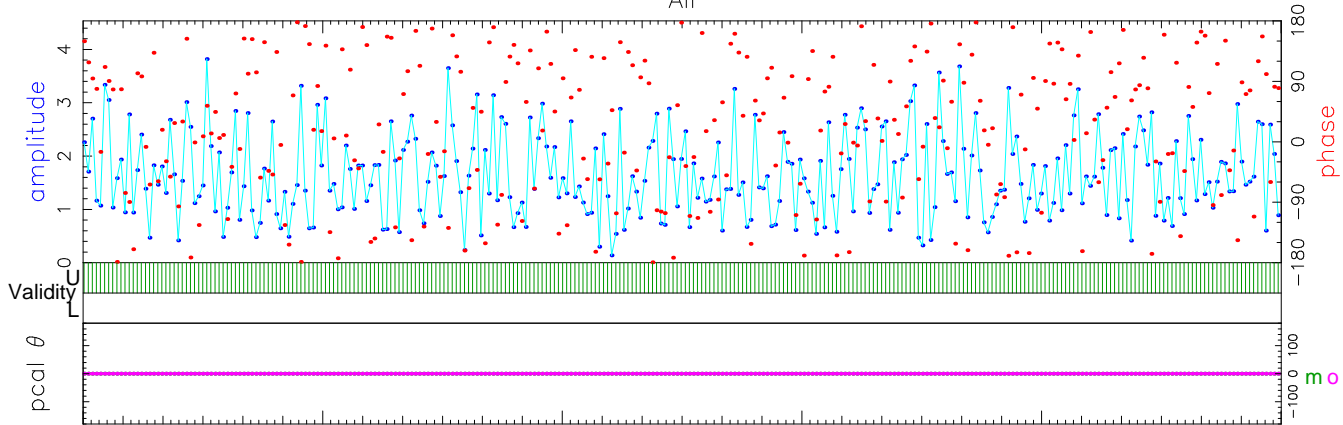


Fringe quality 8

SNR 9.3
Int time 299.974
Amp 1.513
Phase 232.3
PFD 3.1e-13
Delays (us)
SBD -0.463919
MBD -0.000004
Fringe rate (Hz)
-0.611217
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051957
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
102.5
0.4
1514.7
U/L 586/0
m 0
o 0
m:o 0:0
m:o 0:0
m 1000
o 1000
m W03UL
o W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

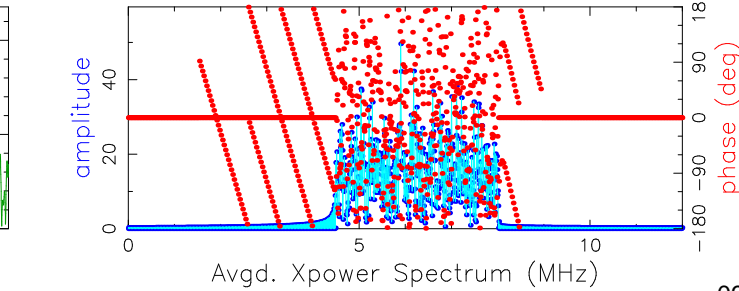
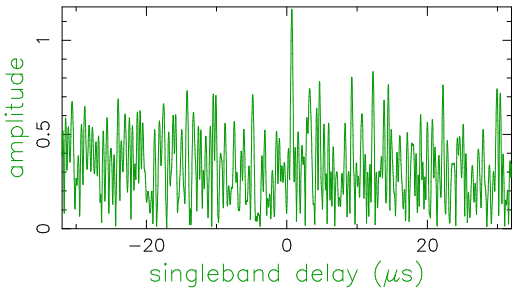
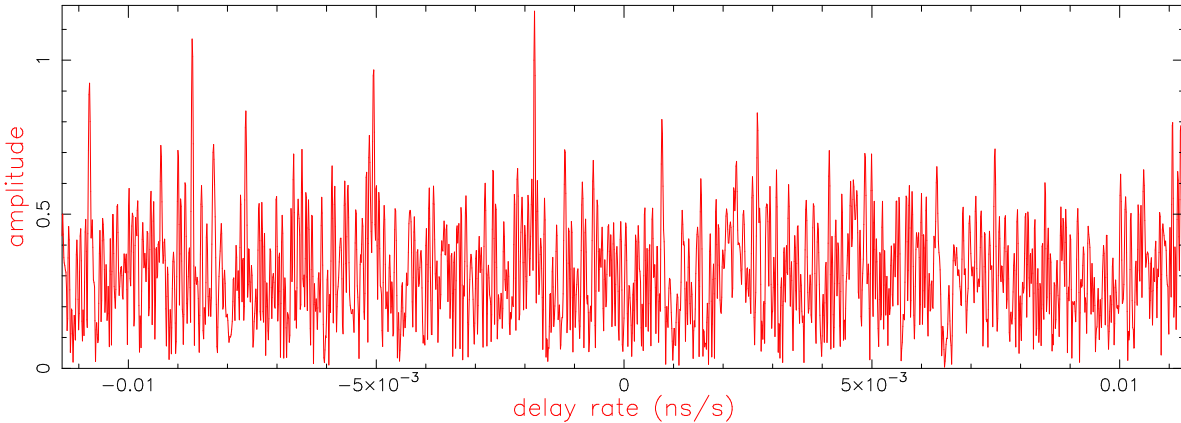
Group delay (usec)(sbd)	-8.71733124079E+03	Apriori delay (usec)	-8.71686732133E+03	Resid mbdelay (usec)	-4.44631E-06	+/-	4.9E-03
Sband delay (usec)	-8.71733124000E+03	Apriori clock (usec)	1.1962000E+01	Resid sbdelay (usec)	-4.63919E-01	+/-	4.9E-03
Phase delay (usec)	-8.71686731803E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.30382E-06	+/-	4.0E-07
Delay rate (us/s)	6.08952616250E-01	Apriori rate (us/s)	6.08959711873E-01	Resid rate (us/s)	-7.09562E-06	+/-	2.3E-09
Total phase (deg)	210.9	Apriori accel (us/s/s)	2.94695841812E-05	Resid phase (deg)	232.3	+/-	12.3

ph/seg (deg)	RMS 92.9	Theor. 105.6	Amplitude Search (2048X8)	1.513 +/- 0.163	1.266	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	67.9	184.4	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.2	Inc. seg. avg.	0.722	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	10.8	Inc. frq. avg.	1.503	0.000	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

m: az 60.9 el 29.7 pa -85.7 o: az 87.7 el 65.8 pa -74.9 u,v (fr/asec) -4184.162 -326.061 simultaneous interpolator

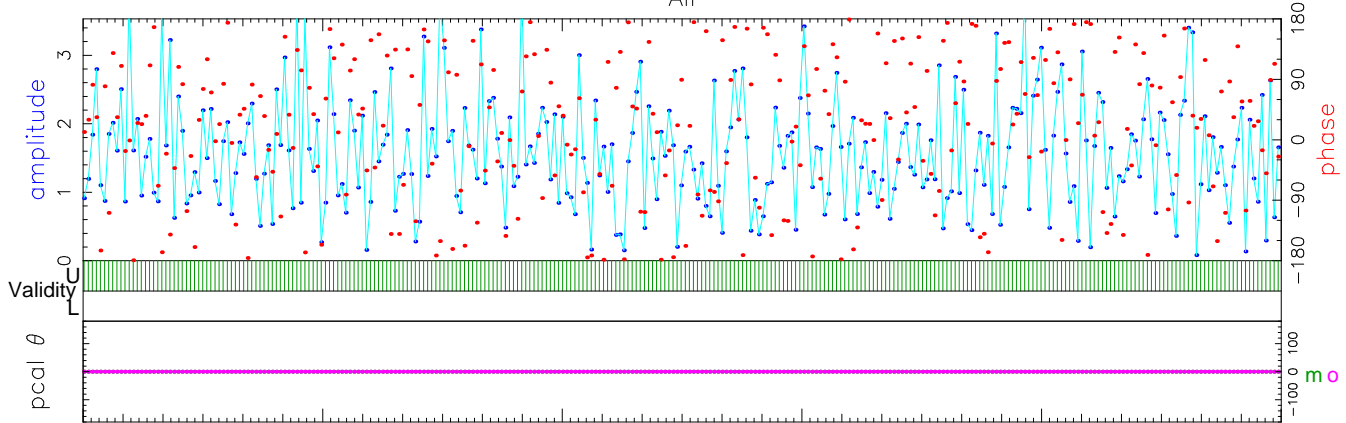
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/mo..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/mo.W.105.1T5GV4

Fringe quality 8



SNR 8.5
Int time 299.974
Amp 1.178
Phase -103.1
PFD 4.9e-10
Delays (us)
SBD 0.707563
MBD -0.000005
Fringe rate (Hz)
-0.155155
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051959
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



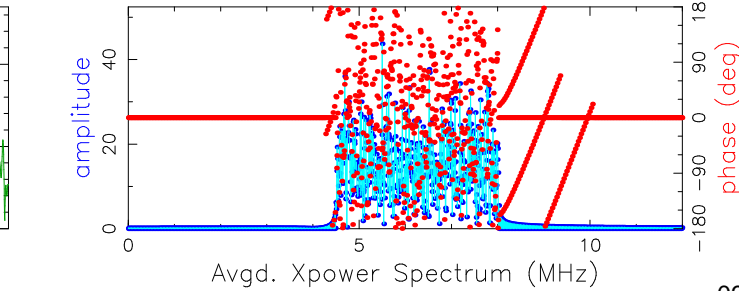
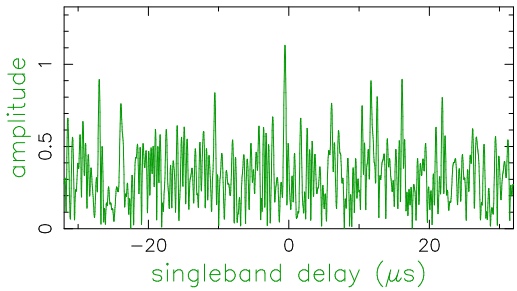
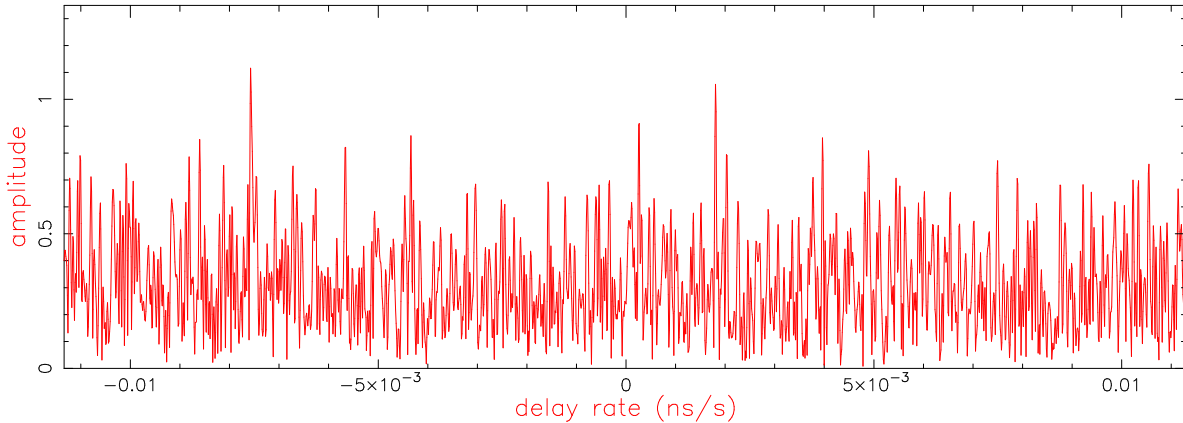
86227.00
97.7
0.3
1571.0
U/L 586/0
m 0
o 0
m:o 0:0
m:o 0:0
m 1000
o 1000
m W03UR
o W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-8.71615976351E+03	Apriori delay (usec)	-8.71686732133E+03	Resid mbdelay (usec)	-4.77929E-06	+/- 5.4E-03
Sband delay (usec)	-8.71615975800E+03	Apriori clock (usec)	1.1962000E+01	Resid sbdelay (usec)	7.07563E-01	+/- 5.4E-03
Phase delay (usec)	-8.71686731818E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.15148E-06	+/- 4.4E-07
Delay rate (us/s)	6.08957910679E-01	Apriori rate (us/s)	6.08959711873E-01	Resid rate (us/s)	-1.80119E-06	+/- 2.5E-09
Total phase (deg)	-124.5	Apriori accel (us/s/s)	2.94695841812E-05	Resid phase (deg)	-103.1	+/- 13.6

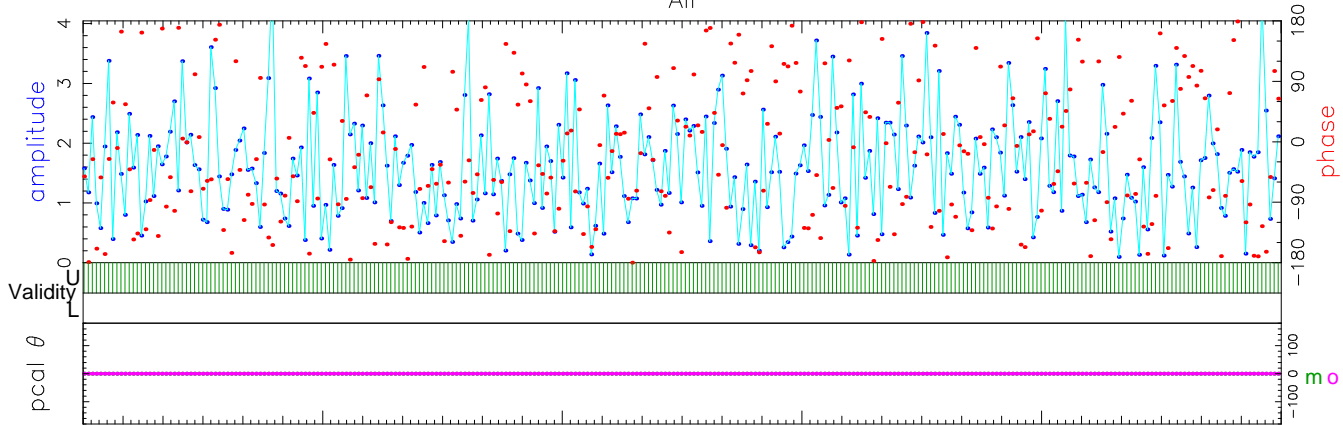
ph/seg (deg)	RMS 92.0	Theor. 116.1	Amplitude Search (2048X8)	1.178 +/- 0.139	1.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	78.6	202.6	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	6.8	Inc. seg. avg.	0.525	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.9	11.8	Inc. frq. avg.	1.163	Sample rate(MISamp/s): 24		dr window (ns/s)	-0.011 0.011
				m: az 60.9 el 29.7 pa -85.7	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00
				o: az 87.7 el 65.8 pa -74.9	simultaneous interpolator			

Fringe quality 8



SNR 8.1
Int time 299.974
Amp 1.349
Phase 89.7
PFD 9.8e-09
Delays (us)
SBD -0.545387
MBD -0.000005
Fringe rate (Hz)
-0.651206
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051955
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-71.8
0.4
1510.8
U/L 586/0
m 0
o 0
m:o 0:0
m:o 0:0
m 1000
o 1000
m W03UL
o W03UL

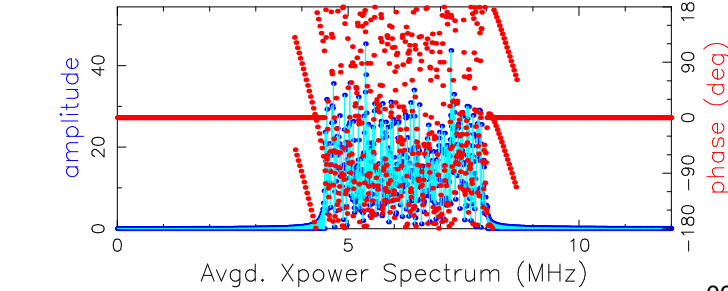
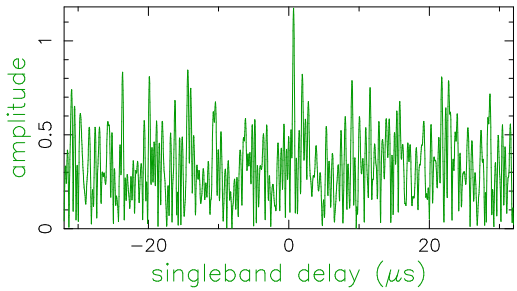
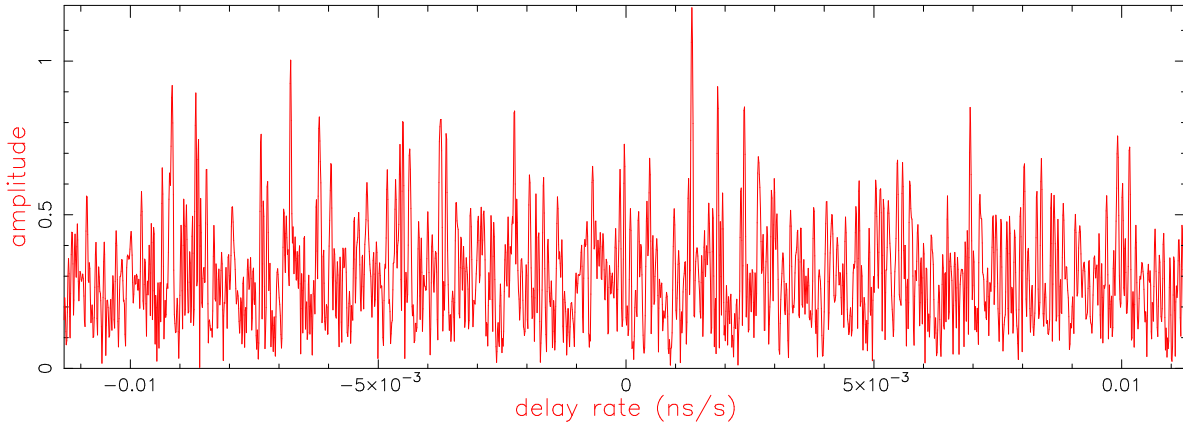
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-8.71741271240E+03	Apriori delay (usec)	-8.71686732133E+03	Resid mbdelay (usec)	-5.05559E-06	+/- 5.7E-03
Sband delay (usec)	-8.71741270800E+03	Apriori clock (usec)	1.1962000E+01	Resid sbdelay (usec)	-5.45387E-01	+/- 5.7E-03
Phase delay (usec)	-8.71686732365E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.31507E-06	+/- 4.6E-07
Delay rate (us/s)	6.08952152018E-01	Apriori rate (us/s)	6.08959711873E-01	Resid rate (us/s)	-7.55986E-06	+/- 2.6E-09
Total phase (deg)	68.3	Apriori accel (us/s/s)	2.94695841812E-05	Resid phase (deg)	89.7	+/- 14.2

ph/seg (deg)	RMS 97.0	Theor. 121.2	Amplitude Search (2048X8)	1.349 +/- 0.167	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	90.9	211.6	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.1	Inc. seg. avg.	0.603	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.4	Inc. frq. avg.	1.339	Sample rate(MSamp/s): 24	dr window (ns/s) -0.011 0.011
					Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
					nlags: 1536 t_cohere infinite	

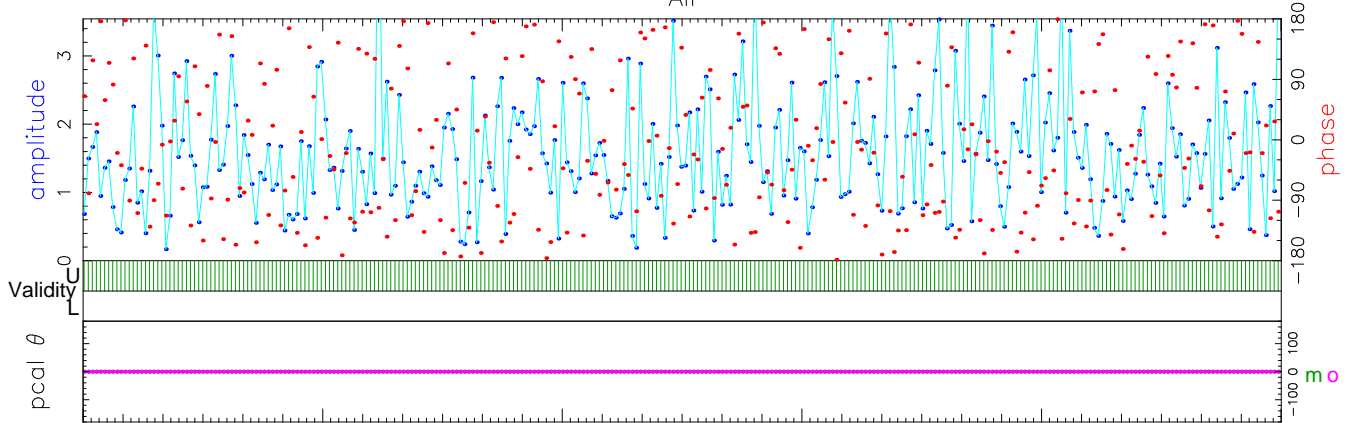
m: az 60.9 el 29.7 pa -85.7 o: az 87.7 el 65.8 pa -74.9 u,v (fr/asec) -4184.162 -326.061 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/mo..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/mo.W.87.1T5GV4

Fringe quality 8



SNR 8.5
Int time 299.974
Amp 1.181
Phase -276.4
PFD 2.8e-10
Delays (us)
SBD 0.671861
MBD 0.000005
Fringe rate (Hz)
0.113887
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051955
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



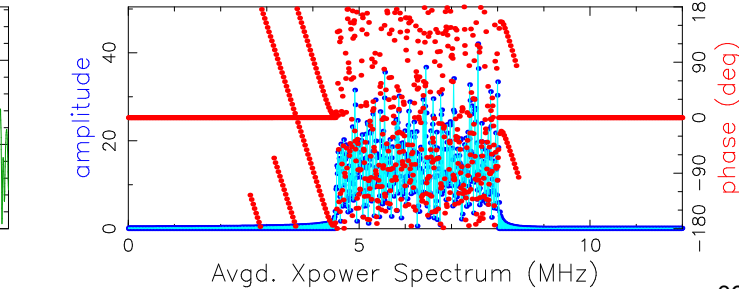
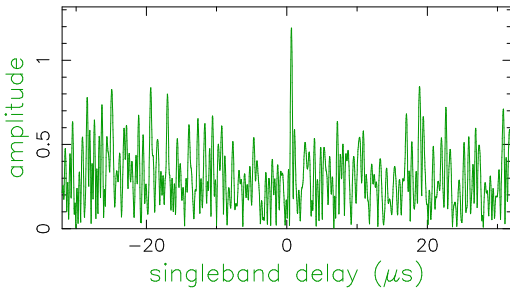
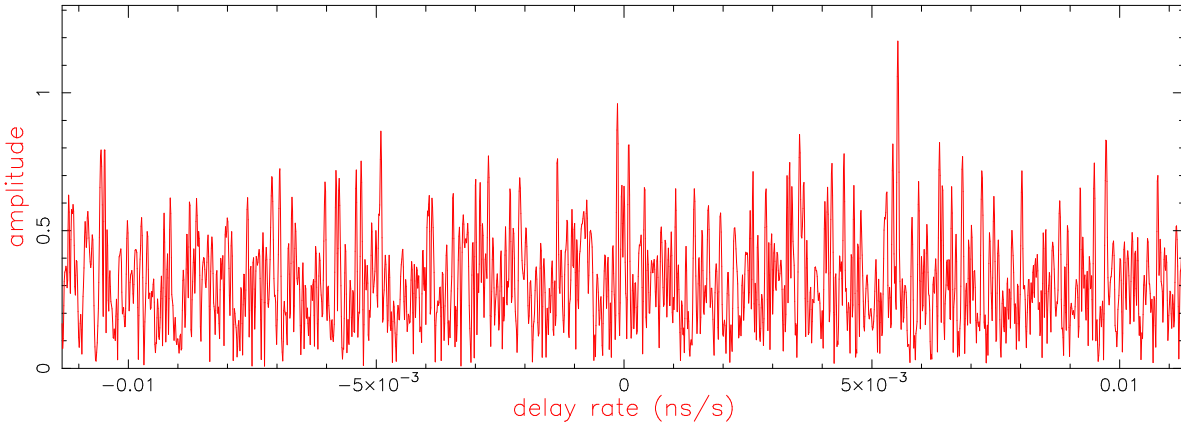
86227.00
-113.9
0.3
1569.2
U/L 586/0
m 0
o 0
m:o 0:0
m:o 0:0
m 1000
o 1000
m W03UR
o W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-8.71619546194E+03	Apriori delay (usec)	-8.71686732133E+03	Resid mbdelay (usec)	4.86437E-06	+/-	5.4E-03
Sband delay (usec)	-8.71619546000E+03	Apriori clock (usec)	1.1962000E+01	Resid sbdelay (usec)	6.71861E-01	+/-	5.4E-03
Phase delay (usec)	-8.71686732500E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.67296E-06	+/-	4.3E-07
Delay rate (us/s)	6.08961033991E-01	Apriori rate (us/s)	6.08959711873E-01	Resid rate (us/s)	1.32212E-06	+/-	2.5E-09
Total phase (deg)	-297.8	Apriori accel (us/s/s)	2.94695841812E-05	Resid phase (deg)	-276.4	+/-	13.5

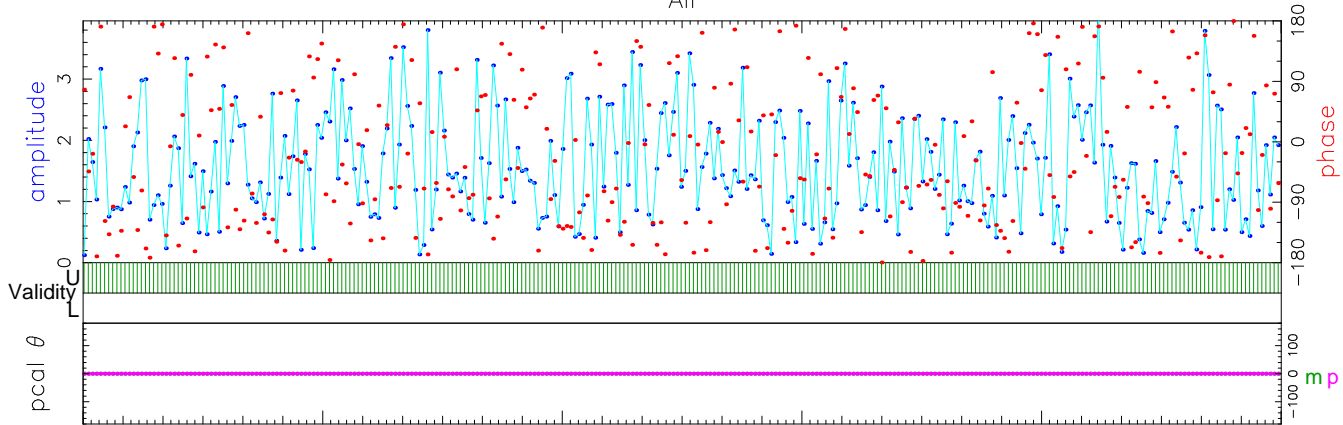
ph/seg (deg)	93.8	Theor.	115.2	Amplitude	1.181 +/- 0.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	81.4		201.0	Search (2048X8)	1.143	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		6.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		11.7	Inc. seg. avg.	0.529	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	1.172	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
m: az 60.9 el 29.7 pa -85.7				o: az 87.7 el 65.8 pa -74.9		u,v (fr/asec) -4184.162 -326.061	simultaneous interpolator

Fringe quality 8



SNR 8.6
Int time 299.973
Amp 1.317
Phase -20.7
PFD 9.0e-11
Delays (us)
SBD 0.652028
MBD 0.000006
Fringe rate (Hz)
0.475153
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051957
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-119.3
0.4
1568.3
U/L 586/0
m 0
p 0
m:p 0:0
m:p 0:0
m 1000
p 1000
m W03UR
p W03UR

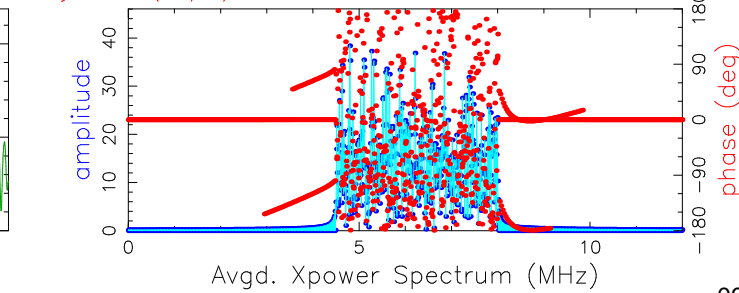
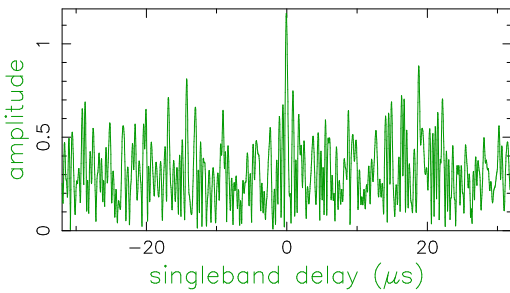
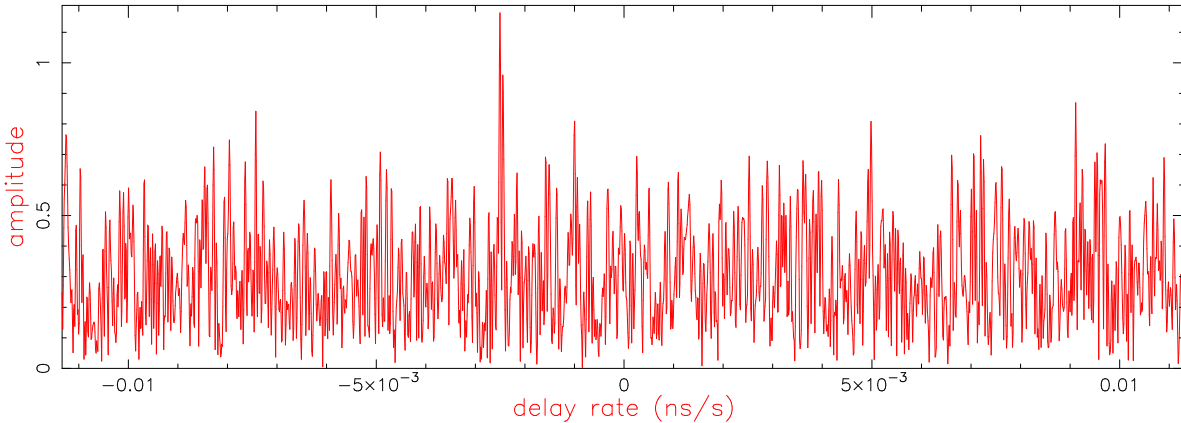
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.71860712686E+03	Apriori delay (usec)	-9.71925915604E+03	Resid mbdelay (usec)	6.03152E-06	+/-	5.3E-03
Sband delay (usec)	-9.71860712804E+03	Apriori clock (usec)	1.0185999E+01	Resid sbdelay (usec)	6.52028E-01	+/-	5.3E-03
Phase delay (usec)	-9.71925915989E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.84848E-06	+/-	4.3E-07
Delay rate (us/s)	7.62019438276E-01	Apriori rate (us/s)	7.62013922219E-01	Resid rate (us/s)	5.51606E-06	+/-	2.5E-09
Total phase (deg)	-273.1	Apriori accel (us/s/s)	3.74290176374E-05	Resid phase (deg)	-20.7	+/-	13.2

ph/seg (deg)	RMS 95.9	Theor. 113.4	Amplitude Search (2048X8)	1.184	1.317 +/- 0.152	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.9	197.9	Interp.	0.000	1.184	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.587	0.0000000E+00	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	11.6	Inc. frq. avg.	1.303	7.62013922219E-01	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
						Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	
						ion window (TEC) 0.00 0.00	

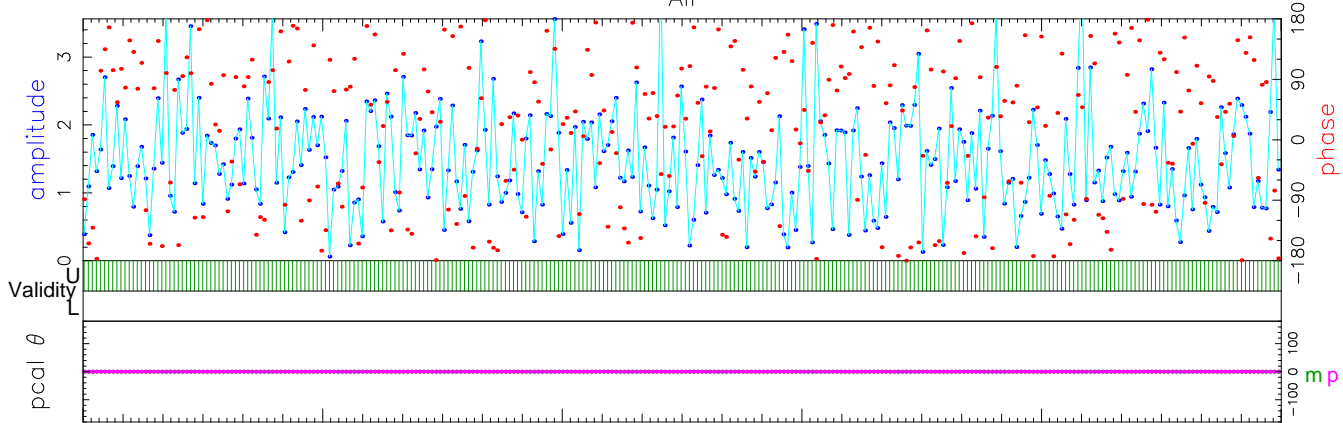
m: az 60.9 el 29.7 pa -85.7 p: az 84.0 el 73.9 pa -85.4 u,v (fr/asec) -5236.142 412.454 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/mp..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/mp.W.104.1T5GV4

Fringe quality 8



SNR 8.4
Int time 299.973
Amp 1.188
Phase 174.5
PFD 5.4e-10
Delays (us)
SBD -0.070699
MBD -0.000007
Fringe rate (Hz)
-0.215565
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051959
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
120.3
0.3
1533.6
U/L 586/0
m 0
p 0
m:p 0:0
m:p 0:0
m 1000
p 1000
m W03UL
p W03UR

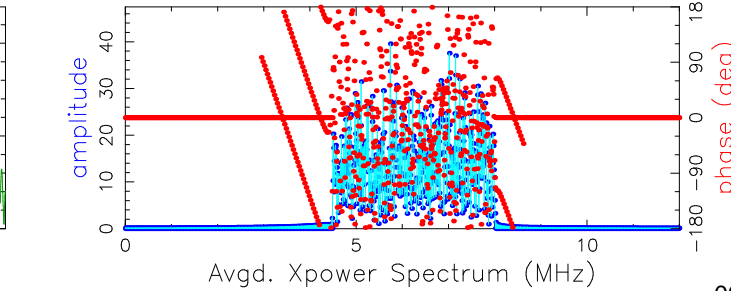
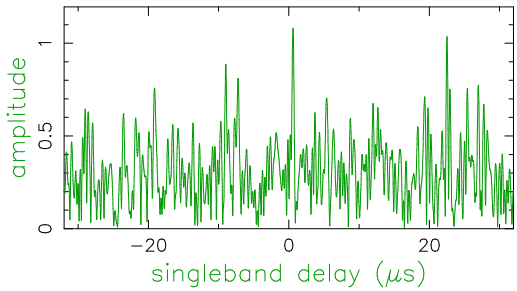
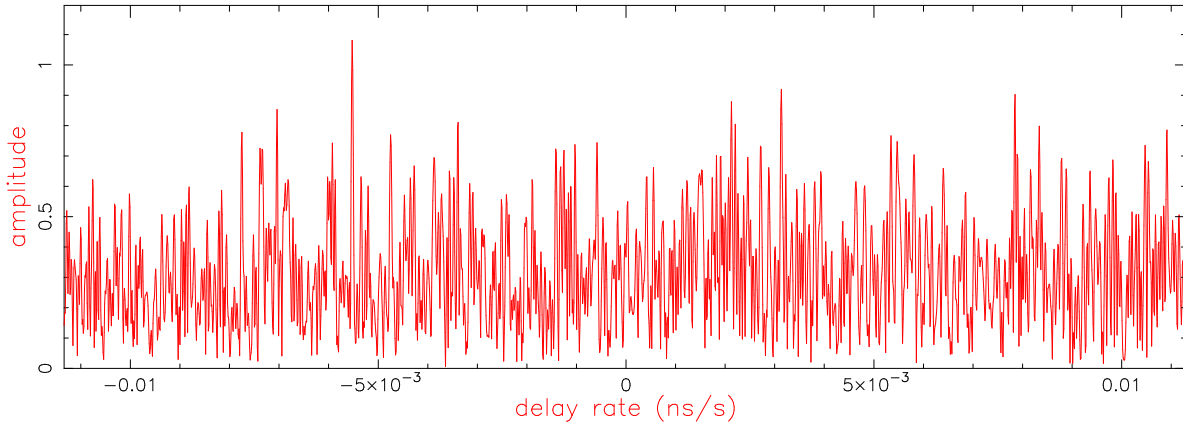
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.71932986004E+03	Apriori delay (usec)	-9.71925915604E+03	Resid mbdelay (usec)	-6.88360E-06	+/-	5.4E-03
Sband delay (usec)	-9.71932985471E+03	Apriori clock (usec)	1.0185999E+01	Resid sbdelay (usec)	-7.06987E-02	+/-	5.4E-03
Phase delay (usec)	-9.71925915216E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.87810E-06	+/-	4.4E-07
Delay rate (us/s)	7.62011419728E-01	Apriori rate (us/s)	7.62013922219E-01	Resid rate (us/s)	-2.50249E-06	+/-	2.5E-09
Total phase (deg)	282.1	Apriori accel (us/s/s)	3.74290176374E-05	Resid phase (deg)	174.5	+/-	13.6

ph/seg (deg)	RMS 90.1	Theor. 116.2	Amplitude 1.188 +/- 0.141	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	72.5	202.8	Search (2048X8) 1.160	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.8	Inc. seg. avg. 0.500	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.178	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				nlags: 1536 t_cohere infinite	

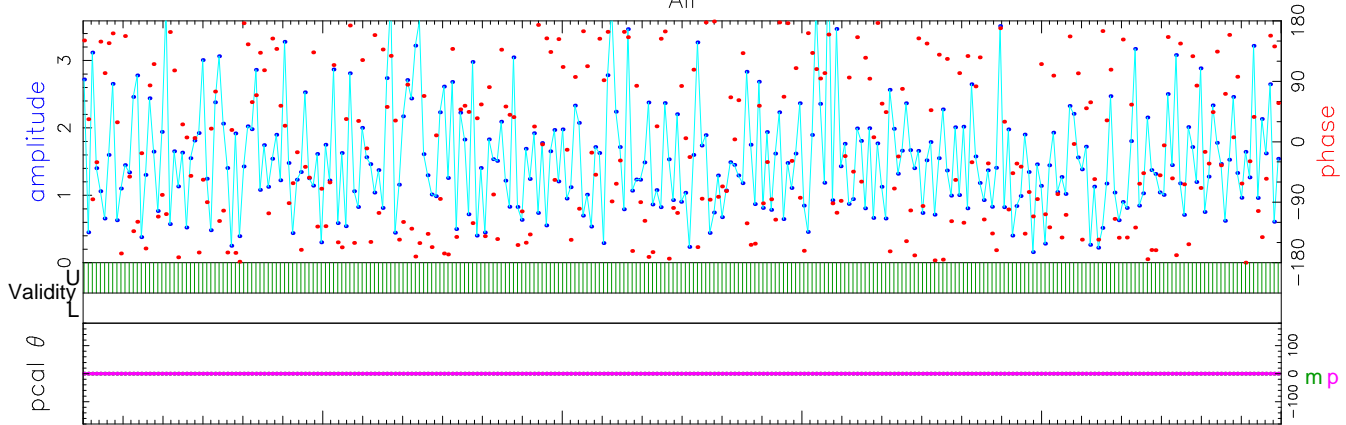
m: az 60.9 el 29.7 pa -85.7 p: az 84.0 el 73.9 pa -85.4 u,v (fr/asec) -5236.142 412.454 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/mp..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/mp.W.121.1T5GV4

Fringe quality 8



SNR 7.9
Int time 299.973
Amp 1.196
Phase -39.3
PFD 6.4e-08
Delays (us)
SBD 0.593581
MBD -0.000005
Fringe rate (Hz)
-0.475125
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:052000
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-168.2
0.3
1565.5
U/L 586/0
m 0
p 0
m:p 0:0
m:p 0:0
m 1000
p 1000
m W03UR
p W03UL

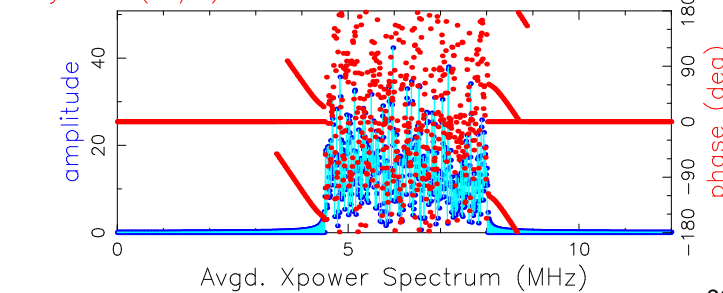
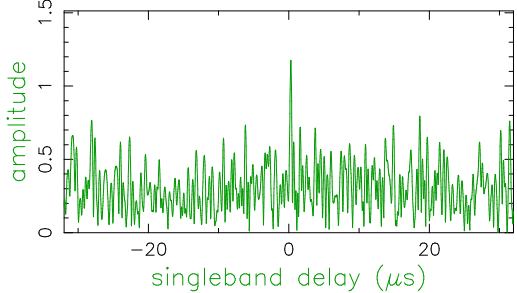
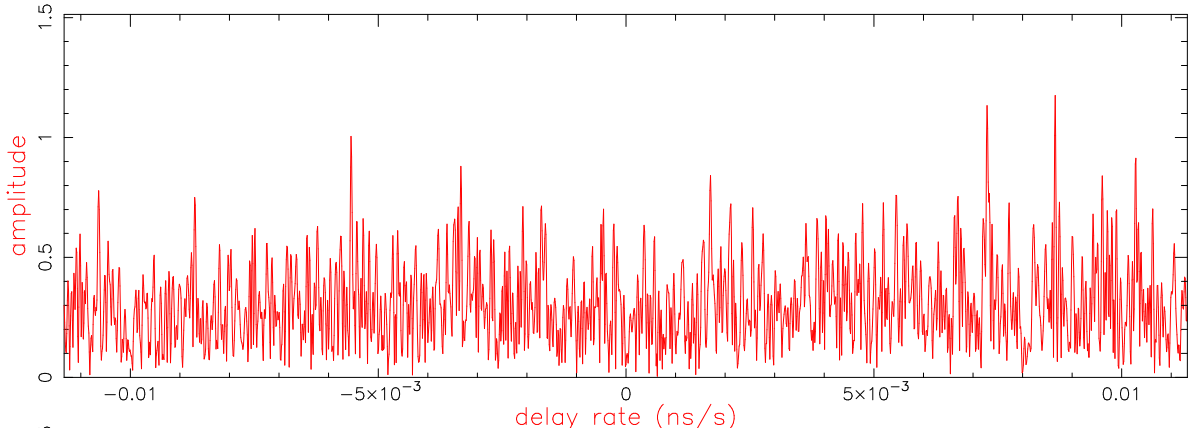
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.71866557648E+03	Apriori delay (usec)	-9.71925915604E+03	Resid mbdelay (usec)	-4.82141E-06	+/-	5.8E-03
Sband delay (usec)	-9.71866557471E+03	Apriori clock (usec)	1.0185999E+01	Resid sbdelay (usec)	5.93581E-01	+/-	5.8E-03
Phase delay (usec)	-9.71925916146E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.42426E-06	+/-	4.7E-07
Delay rate (us/s)	7.62008406490E-01	Apriori rate (us/s)	7.62013922219E-01	Resid rate (us/s)	-5.51573E-06	+/-	2.7E-09
Total phase (deg)	-291.7	Apriori accel (us/s/s)	3.74290176374E-05	Resid phase (deg)	-39.3	+/-	14.6

ph/seg (deg)	93.4	Theor.	124.9	Amplitude	1.196 +/- 0.152	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	86.6	Search (2048X8)	1.079	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.509	Inc. frq. avg.	1.184	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	Inc. frq. avg.	1.184	Sample rate(MSamp/s): 24		Data rate(Mb/s): 48	mb window (us) -0.000 0.000
				nlags: 1536	t_cohere infinite		dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

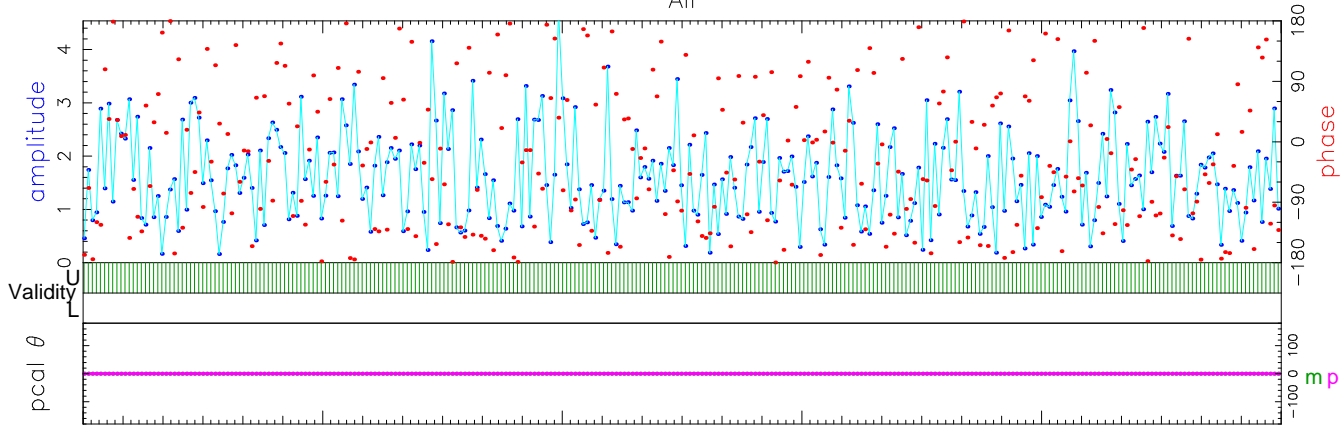
m: az 60.9 el 29.7 pa -85.7 p: az 84.0 el 73.9 pa -85.4 u,v (fr/asec) -5236.142 412.454 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/mp..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/mp.W.136.1T5GV4

Fringe quality 8



SNR 8.5
Int time 299.973
Amp 1.513
Phase -64.0
PFD 2.5e-10
Delays (us)
SBD 0.286309
MBD 0.000007
Fringe rate (Hz)
0.744883
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051956
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



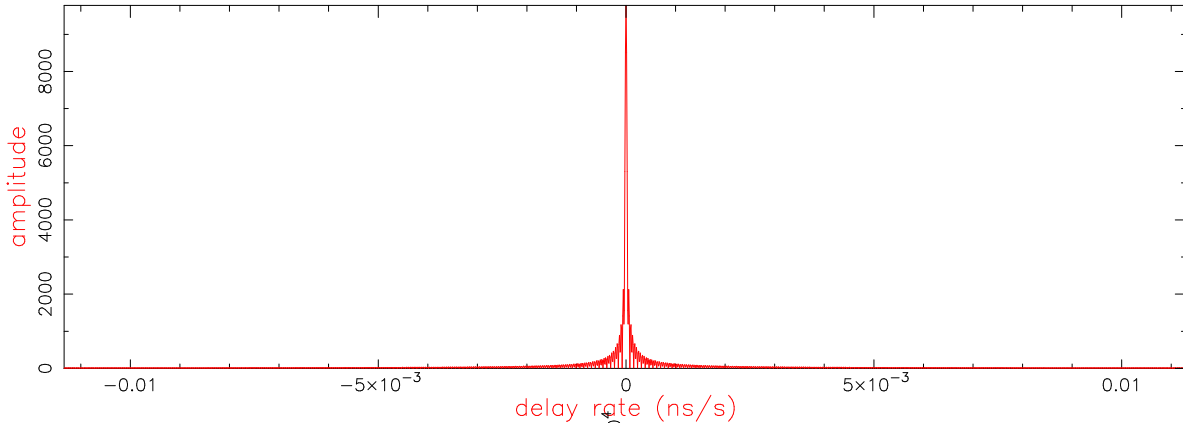
86227.00
-97.0
0.4
1550.7
U/L 586/0
m 0
p 0
m:p 0:0
m:p 0:0
m 1000
p 1000
m W03UL
p W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

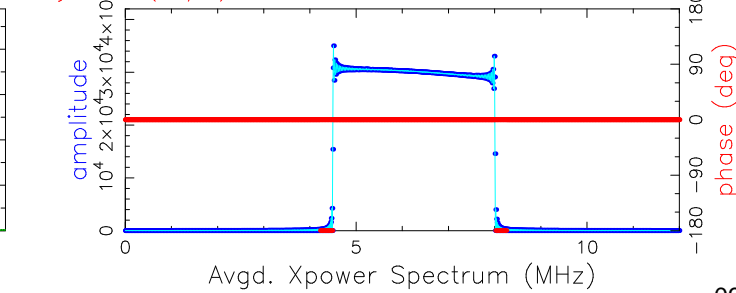
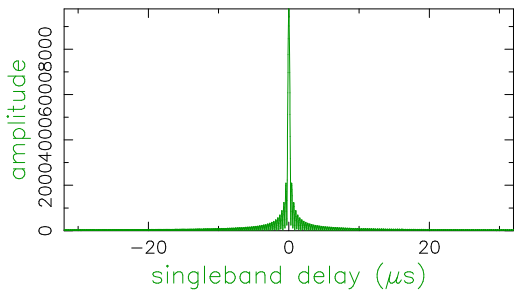
Group delay (usec)(sbd)	-9.71897284689E+03	Apriori delay (usec)	-9.71925915604E+03	Resid mbdelay (usec)	6.71632E-06	+/-	5.4E-03
Sband delay (usec)	-9.71897284671E+03	Apriori clock (usec)	1.0185999E+01	Resid sbdelay (usec)	2.86309E-01	+/-	5.4E-03
Phase delay (usec)	-9.71925915917E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.12750E-06	+/-	4.3E-07
Delay rate (us/s)	7.62022569573E-01	Apriori rate (us/s)	7.62013922219E-01	Resid rate (us/s)	8.64735E-06	+/-	2.5E-09
Total phase (deg)	-316.4	Apriori accel (us/s/s)	3.74290176374E-05	Resid phase (deg)	-64.0	+/-	13.4

ph/seg (deg)	RMS 94.9	Theor. 115.0	Amplitude Search (2048X8)	1.513 +/- 0.177	1.169	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	81.3	200.7	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.688	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.7	Inc. frq. avg.	1.502	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
			m: az 60.9 el 29.7 pa -85.7			p: az 84.0 el 73.9 pa -85.4	
			u,v (fr/asec) -5236.142 412.454			simultaneous interpolator	

Fringe quality 5

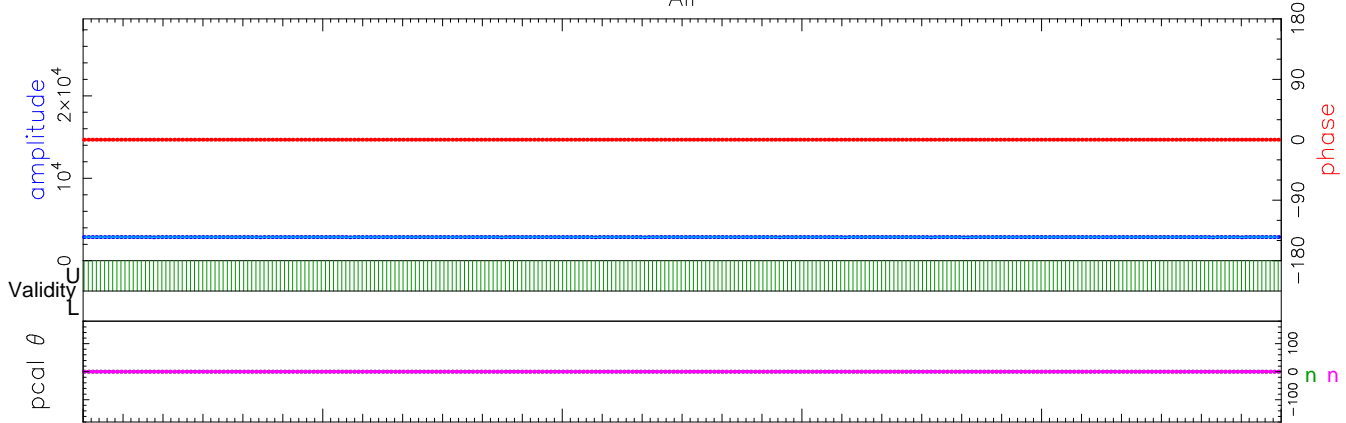


SNR 70909.7
Int time 299.972
Amp 9779.392
Phase -0.2
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000006
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051957
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
0.2
2865.1
1537.0
U/L 586/0
n 0
n 0
n:n 0:0
n:n 0:0
n 1000
n 1000
n W03UR
n W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

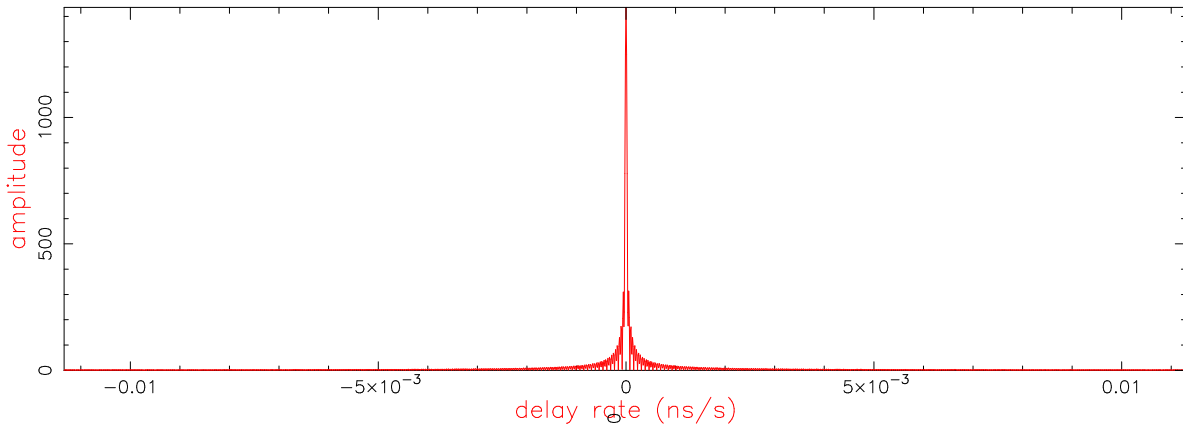
Group delay (usec)(sbd)	5.55788790054E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.03941E-06	+/- 6.5E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 6.5E-07
Phase delay (usec)	6.52037273907E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.52037E-09	+/- 5.2E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 3.0E-13
Total phase (deg)	-0.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.2	+/- 0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	9779.392 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	9779.392	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2865.056	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	9779.392	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

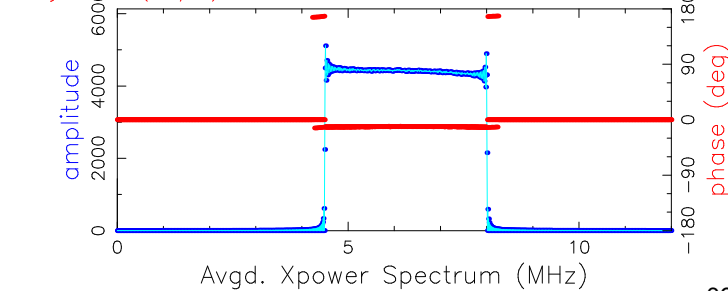
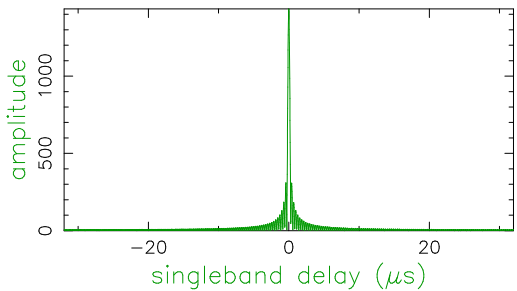
n: az 161.1 el 82.3 pa -16.2 n: az 161.1 el 82.3 pa -16.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/nn..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/nn.W.109.1T5GV4

Fringe quality 5

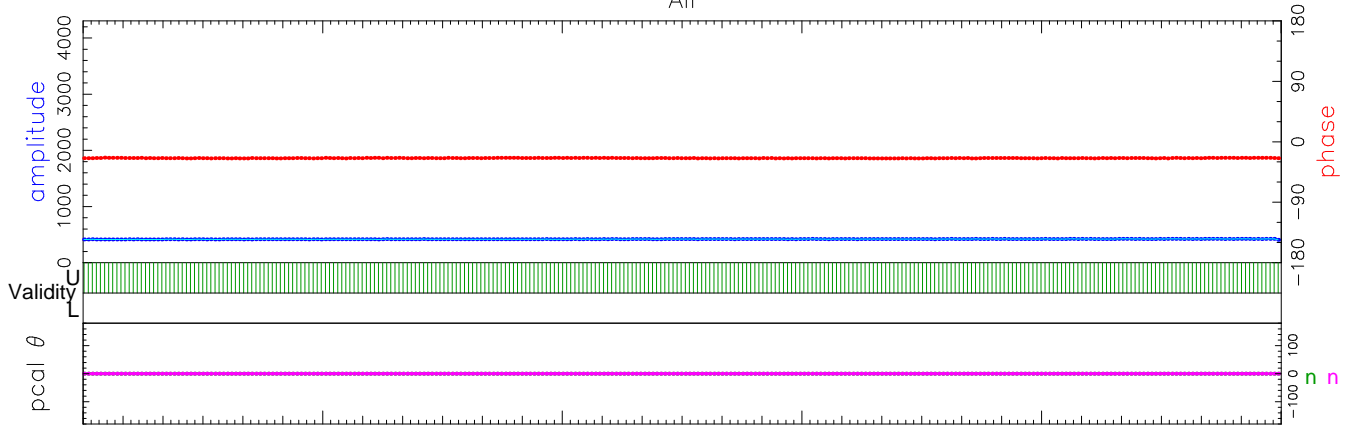


SNR 10408.2
Int time 299.972
Amp 1435.425
Phase 156.6
PFD 0.0e+00
Delays (us)
SBD -0.005785
MBD -0.000007
Fringe rate (Hz)
-0.000012
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051958
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



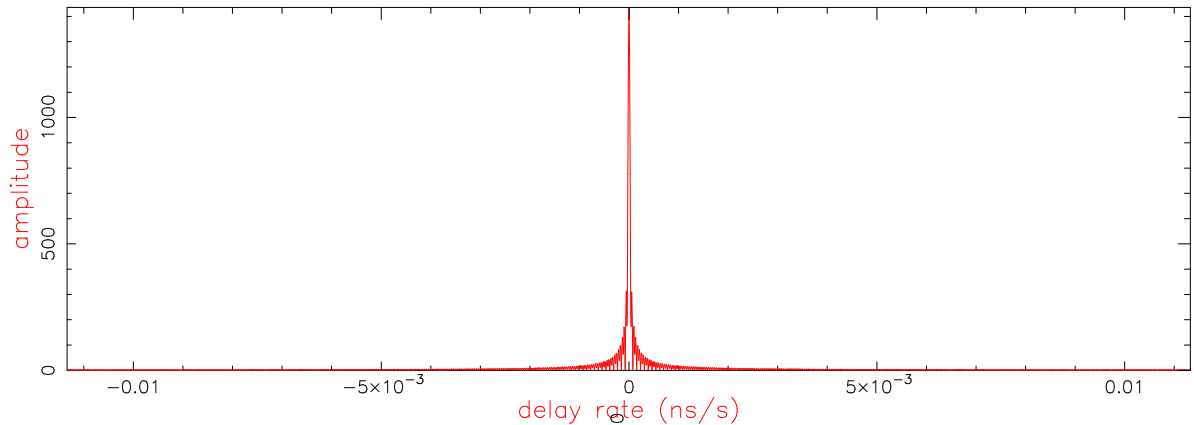
86227.00
-24.3
420.2
1536.7
U/L 586/0
n 0
n 0
n:n 0:0
n:n 0:0
n 1000
n 1000
n W03UL
n W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-5.78268776601E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.23460E-06	+/- 4.4E-06
Sband delay (usec)	-5.78533333333E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-5.78533E-03	+/- 4.4E-06
Phase delay (usec)	-7.83934073459E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-7.83934E-07	+/- 3.6E-10
Delay rate (us/s)	-1.36751620580E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-1.36752E-10	+/- 2.0E-12
Total phase (deg)	156.6	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	156.6	+/- 0.0

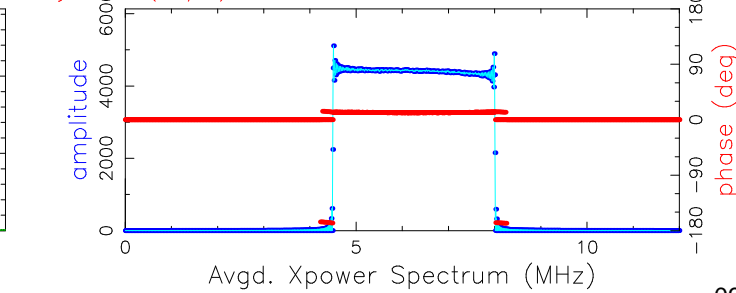
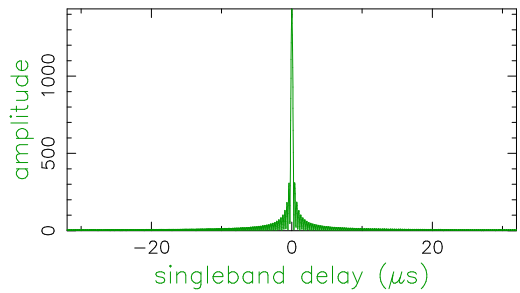
ph/seg (deg)	0.2	Theor.	0.1	Amplitude	1435.425 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.2	Search (2048X8)	1434.421	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	420.252	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	1434.451	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

n: az 161.1 el 82.3 pa -16.2 n: az 161.1 el 82.3 pa -16.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/nn..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/nn.W.114.1T5GV4



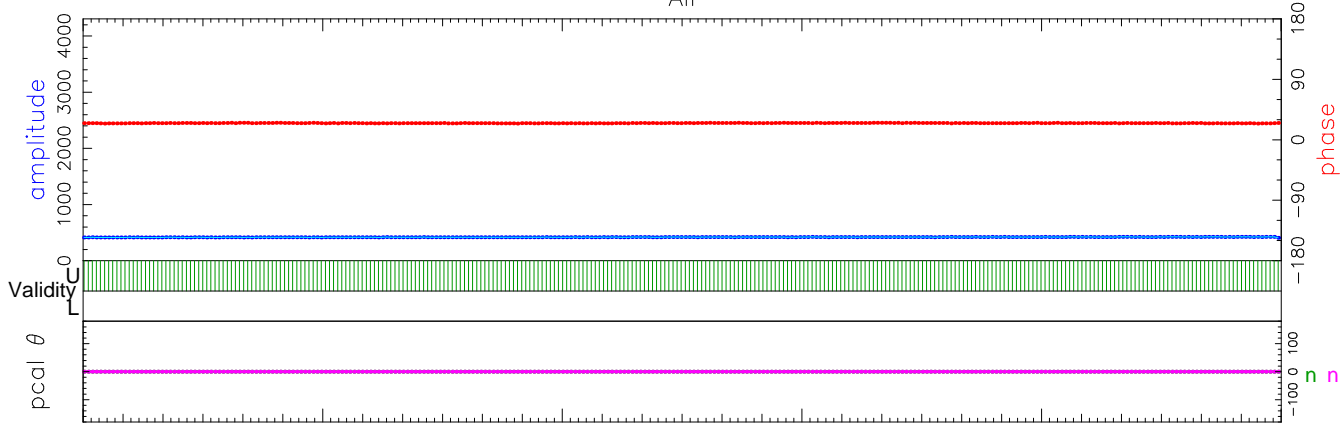
Fringe quality 5

SNR 10408.2
Int time 299.972
Amp 1435.425
Phase -156.5
PFD 0.0e+00
Delays (us)
SBD 0.005785
MBD -0.000007
Fringe rate (Hz)
0.000012
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:052000
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

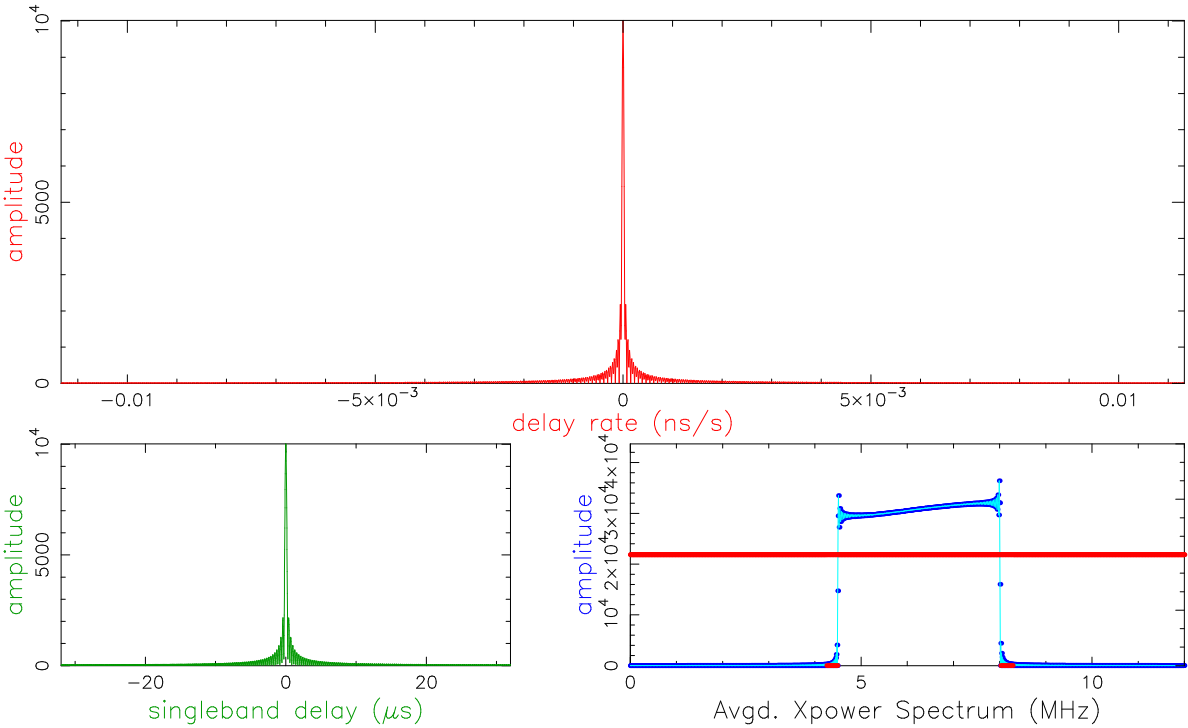


86227.00
24.8
420.2
1537.3
U/L 586/0
n 0
n 0
n:n 0:0
n:n 0:0
n 1000
n 1000
n W03UR
n W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

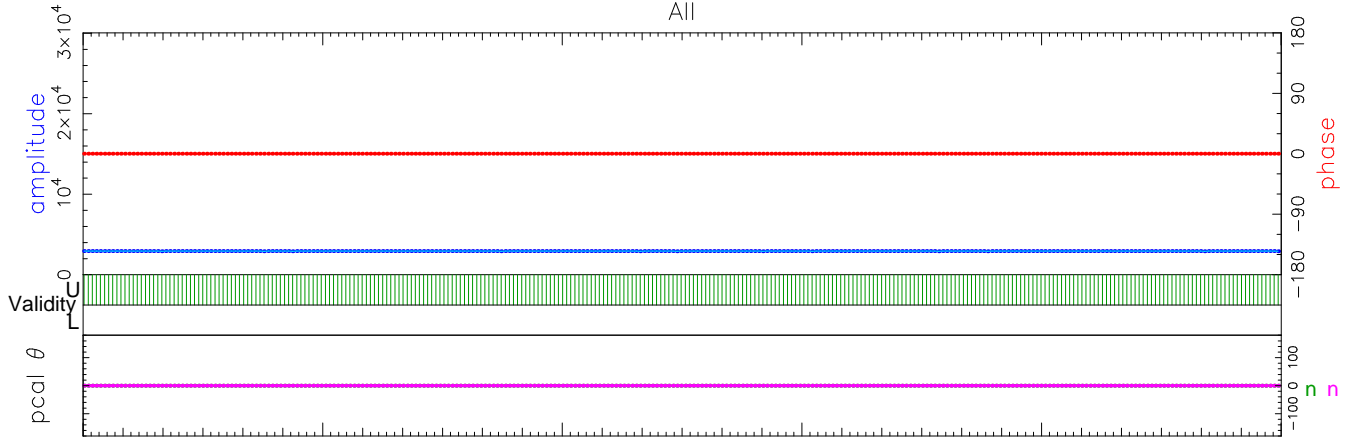
Group delay (usec)(sbd)	5.77982360514E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.22685E-06	+/- 4.4E-06
Sband delay (usec)	5.78533333333E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	5.78533E-03	+/- 4.4E-06
Phase delay (usec)	7.99547208384E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.99547E-07	+/- 3.6E-10
Delay rate (us/s)	1.36751620580E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	1.36752E-10	+/- 2.0E-12
Total phase (deg)	-156.5	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-156.5	+/- 0.0

RMS Theor. Amplitude 1435.425 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 0.2 0.1 Search (2048X8) 1434.421 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 70.7 0.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
ph/frq (deg) 0.0 0.0 Inc. seg. avg. 420.252 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011
amp/frq (%) 70.7 0.0 Inc. frq. avg. 1434.451 Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite ion window (TEC) 0.00 0.00
n: az 161.1 el 82.3 pa -16.2 n: az 161.1 el 82.3 pa -16.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator



Fringe quality 5
SNR 72643.2
Int time 299.972
Amp 10018.460
Phase -0.2
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000006
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051956
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



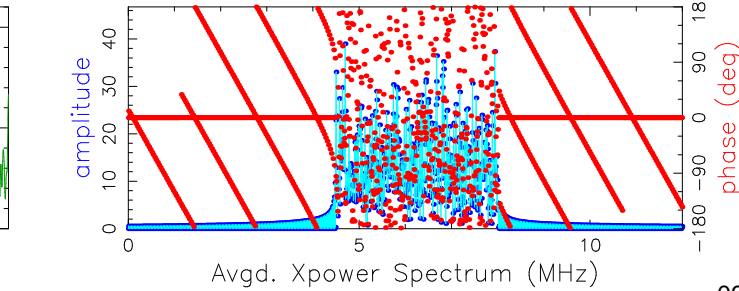
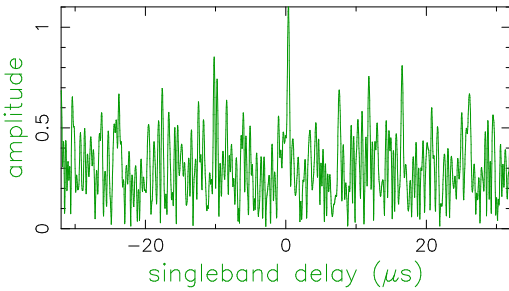
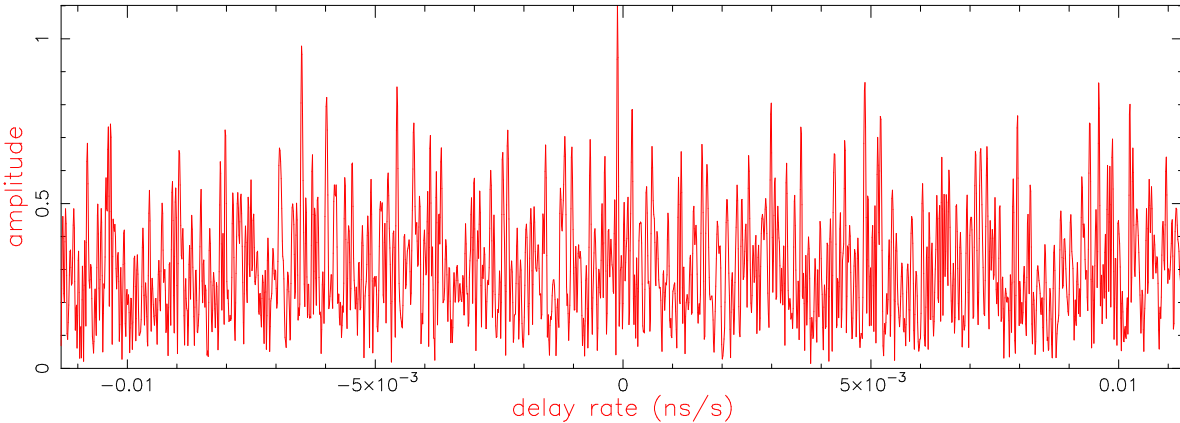
86227.00
0.2
2935.1
1537.0
U/L 586/0
n 0
n 0
n:n 0:0
n:n 0:0
n 1000
n 1000
n W03UL
n W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	5.57783524882E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.01946E-06	+/-	6.3E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	6.49883682788E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.49884E-09	+/-	5.1E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-13
Total phase (deg)	-0.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.2	+/-	0.0

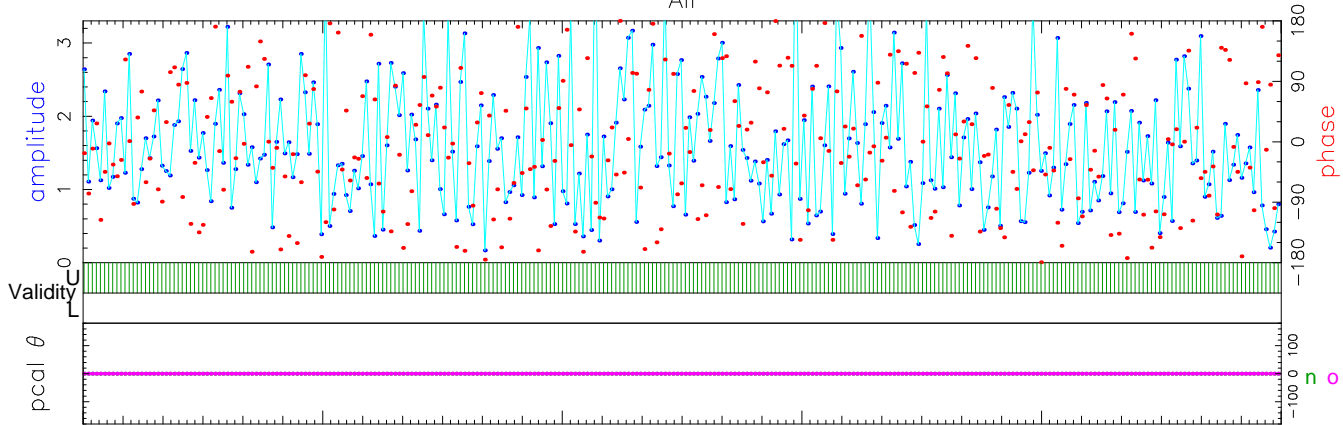
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10018.460 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10018.459	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2935.095	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10018.459	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
n: az 161.1 el 82.3 pa -16.2				u, v (fr/asec)	0.000 0.000	nlags: 1536 t_cohere infinite	simultaneous interpolator

Fringe quality 8



SNR 8.0
Int time 299.972
Amp 1.101
Phase -96.3
PFD 2.3e-08
Delays (us)
SBD 0.370365
MBD -0.000005
Fringe rate (Hz)
-0.009944
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051957
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-16.3
0.3
1554.8
U/L 586/0
n 0
o 0
n:o 0:0
n:o 0:0
n 1000
o 1000
n W03UR
o W03UR

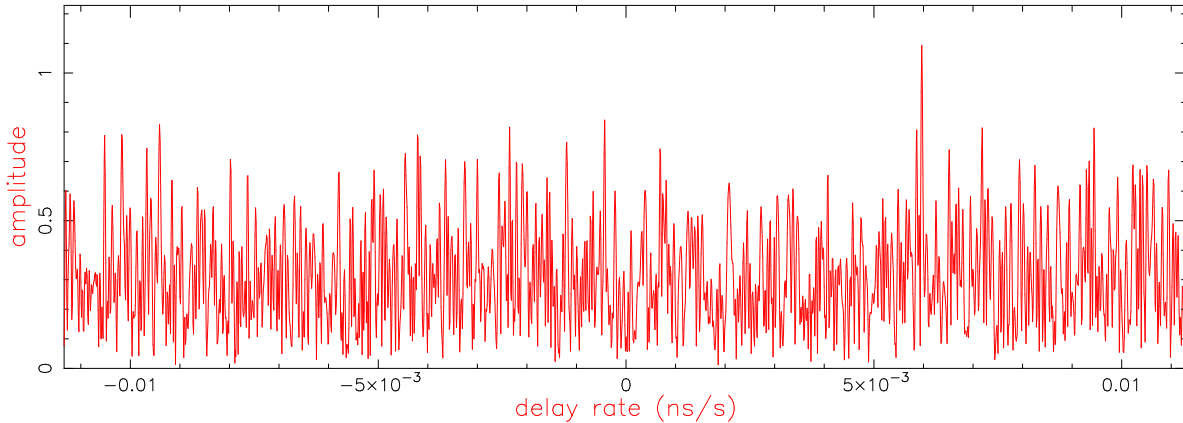
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.57798140686E+03	Apriori delay (usec)	1.57761104067E+03	Resid mbdelay (usec)	-5.04427E-06	+/- 5.8E-03
Sband delay (usec)	1.57798140601E+03	Apriori clock (usec)	1.7290001E+00	Resid sbdelay (usec)	3.70365E-01	+/- 5.8E-03
Phase delay (usec)	1.57761104015E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.25806E-07	+/- 4.6E-07
Delay rate (us/s)	-4.56562828628E-01	Apriori rate (us/s)	-4.56562713192E-01	Resid rate (us/s)	-1.15435E-07	+/- 2.7E-09
Total phase (deg)	-80.6	Apriori accel (us/s/s)	-4.48754867620E-06	Resid phase (deg)	-96.3	+/- 14.4

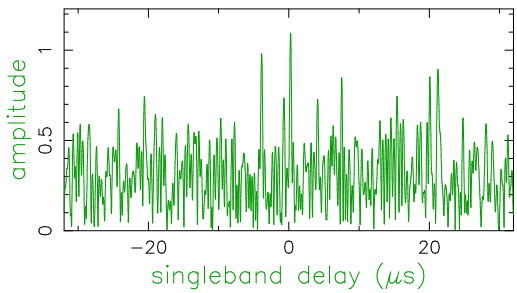
ph/seg (deg)	RMS 92.3	Theor. 122.8	Amplitude Search (2048X8)	1.101 +/- 0.138	1.069	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	90.4	214.4	Interp.	0.000	1.069	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.490	1.069	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.5	Inc. frq. avg.	1.092	1.092	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

n: az 161.1 el 82.3 pa -16.2 o: az 87.7 el 65.8 pa -74.9 u,v (fr/asec) 3162.702 181.674 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/no..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/no.W.108.1T5GV4

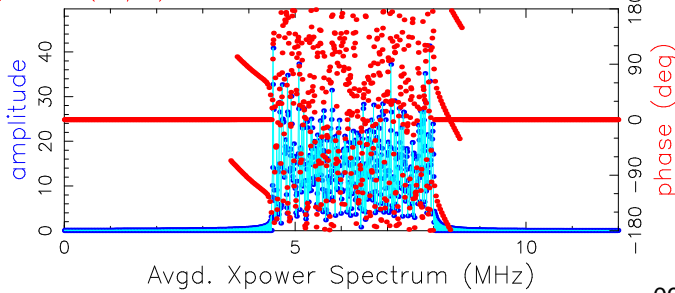
Fringe quality 8



SNR 7.9
Int time 299.972
Amp 1.229
Phase -21.2
PFD 3.5e-08
Delays (us)
SBD 0.251067
MBD 0.000005
Fringe rate (Hz)
0.513309
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

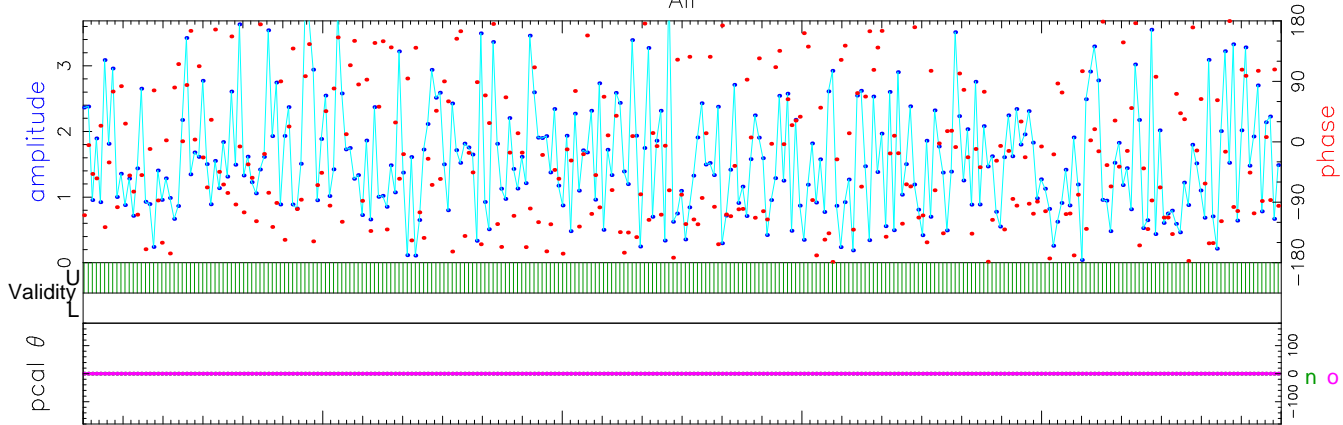


delay rate (ns/s)



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051959
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-78.0
0.4
1549.0
U/L 586/0
n 0
o 0
n:o 0:0
n:o 0:0
n 1000
o 1000
n W03UL
o W03UR

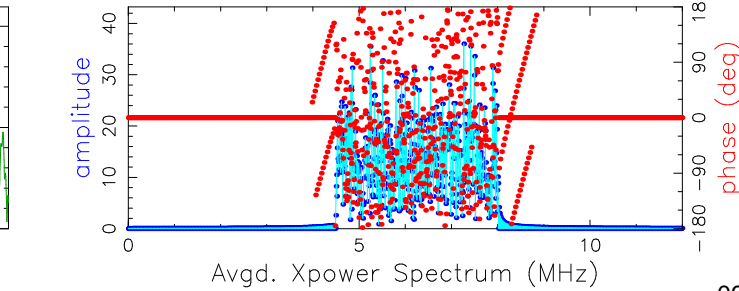
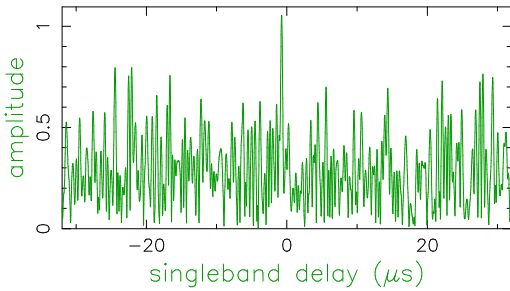
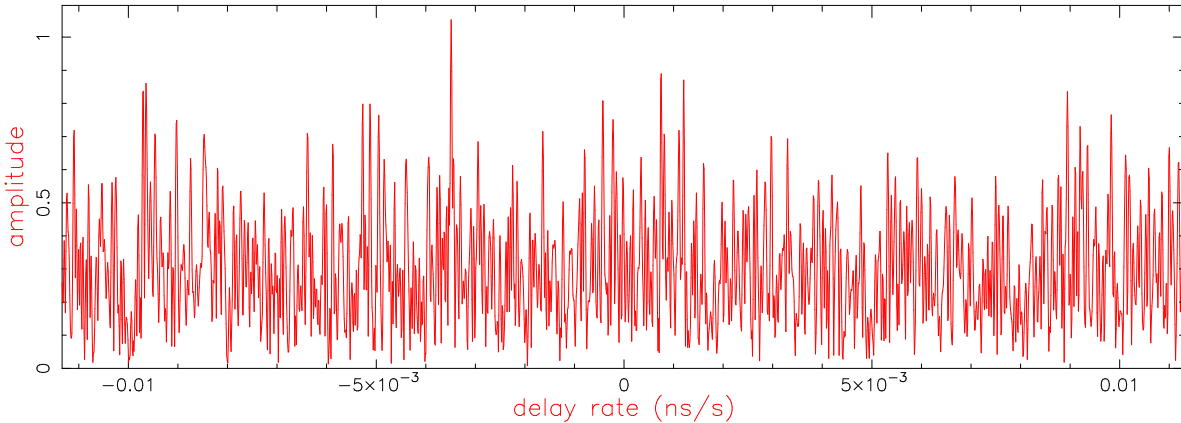
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.57786210359E+03	Apriori delay (usec)	1.57761104067E+03	Resid mbdelay (usec)	4.66350E-06	+/-	5.8E-03
Sband delay (usec)	1.57786210734E+03	Apriori clock (usec)	1.7290001E+00	Resid sbdelay (usec)	2.51067E-01	+/-	5.8E-03
Phase delay (usec)	1.57761103816E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.51658E-06	+/-	4.7E-07
Delay rate (us/s)	-4.56556754179E-01	Apriori rate (us/s)	-4.56562713192E-01	Resid rate (us/s)	5.95901E-06	+/-	2.7E-09
Total phase (deg)	-5.5	Apriori accel (us/s/s)	-4.48754867620E-06	Resid phase (deg)	-21.2	+/-	14.4

ph/seg (deg)	RMS 93.6	Theor. 123.7	Amplitude Search (2048X8)	1.229 +/- 0.155	1.079	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	91.1	215.8	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.537	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	12.6	Inc. frq. avg.	1.219	Sample rate(MISamp/s): 24		dr window (ns/s)	-0.011 0.011
					Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

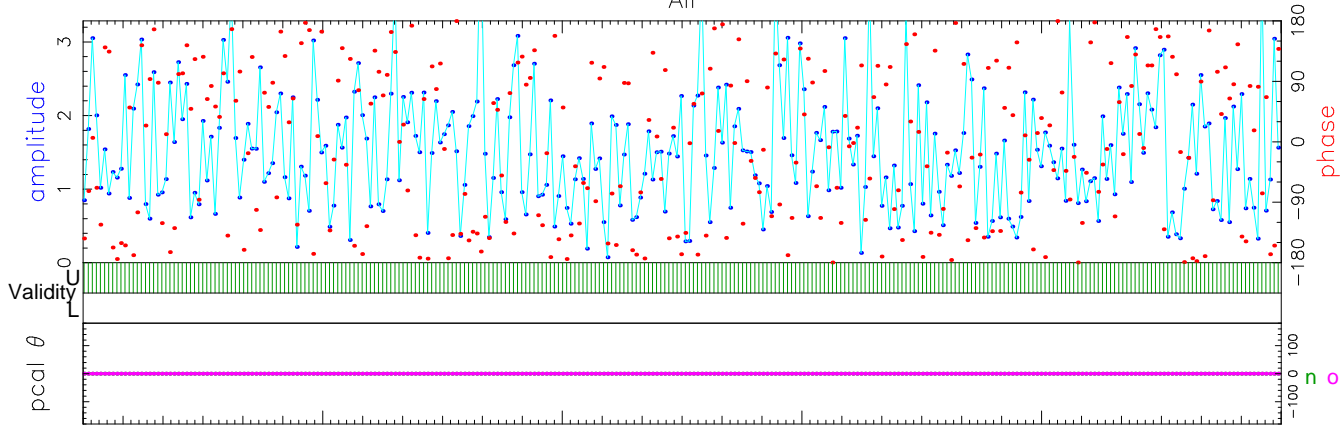
n: az 161.1 el 82.3 pa -16.2 o: az 87.7 el 65.8 pa -74.9 u,v (fr/asec) 3162.702 181.674 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/no..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/no.W.127.1T5GV4

Fringe quality 8



SNR 7.6
Int time 299.972
Amp 1.096
Phase 356.7
PFD 3.3e-07
Delays (us)
SBD -0.741985
MBD -0.000007
Fringe rate (Hz)
-0.300347
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:052001
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



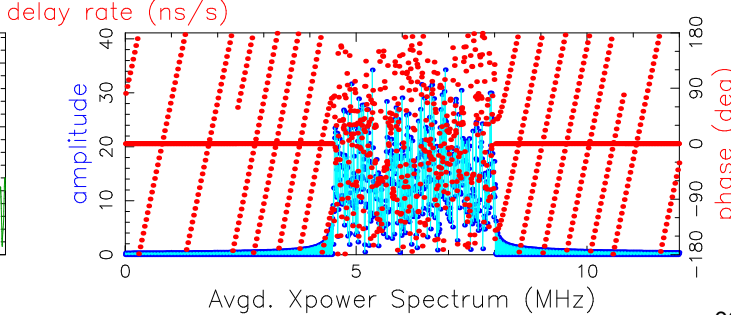
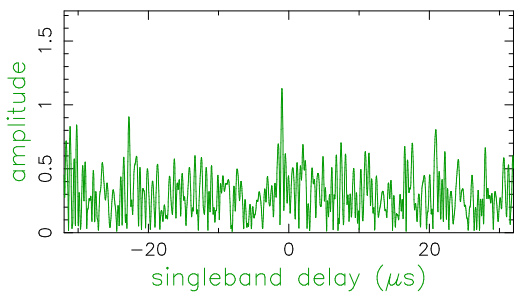
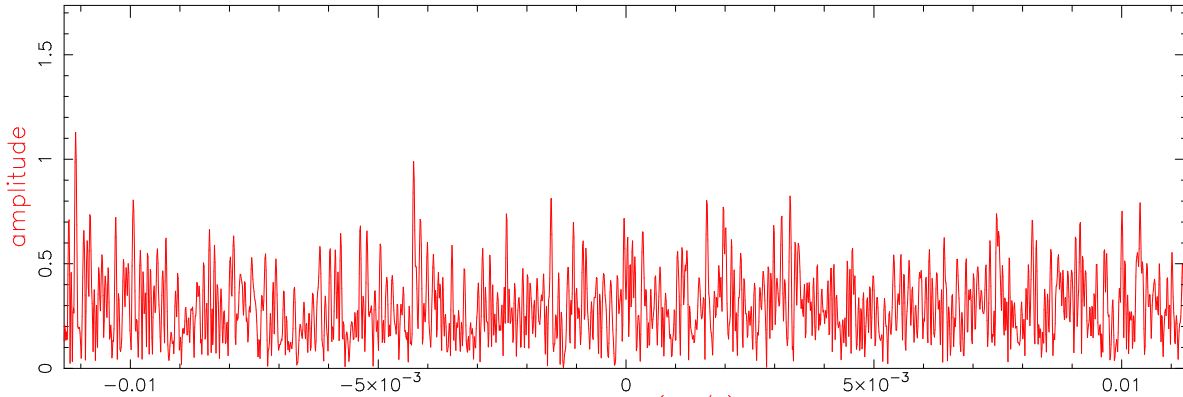
86227.00
157.8
0.3
1501.4
U/L 586/0
n 0
o 0
n:o 0:0
n:o 0:0
n 1000
o 1000
n W03UR
o W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.57686905006E+03	Apriori delay (usec)	1.57761104067E+03	Resid mbdelay (usec)	-7.24239E-06	+/- 6.0E-03
Sband delay (usec)	1.57686905534E+03	Apriori clock (usec)	1.7290001E+00	Resid sbdelay (usec)	-7.41985E-01	+/- 6.0E-03
Phase delay (usec)	1.57761104576E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.08934E-06	+/- 4.8E-07
Delay rate (us/s)	-4.56566199924E-01	Apriori rate (us/s)	-4.56562713192E-01	Resid rate (us/s)	-3.48673E-06	+/- 2.8E-09
Total phase (deg)	12.5	Apriori accel (us/s/s)	-4.48754867620E-06	Resid phase (deg)	356.7	+/- 15.0

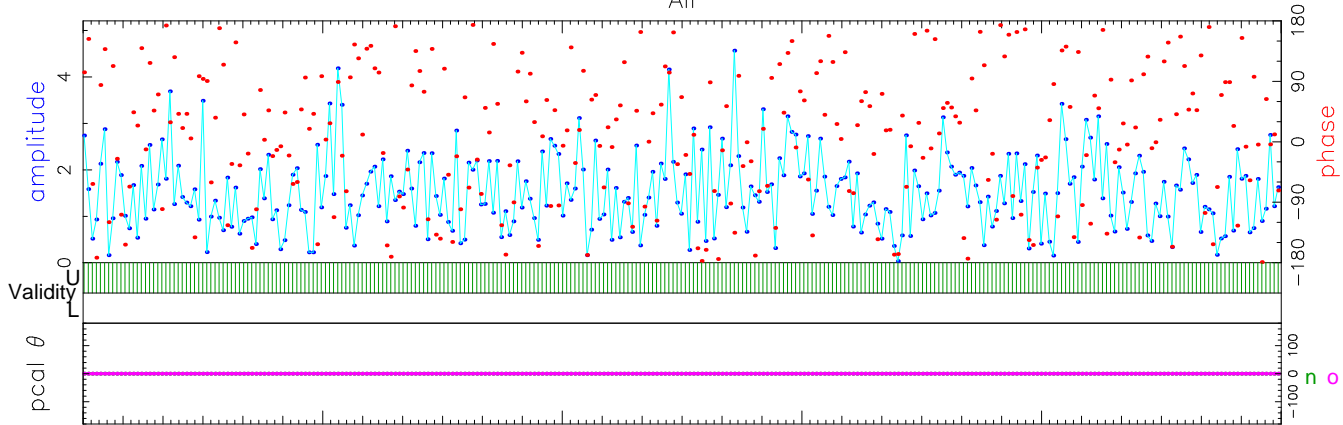
ph/seg (deg)	RMS 92.8	Theor. 128.4	Amplitude Search (2048X8)	1.096 +/- 0.143	1.047	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	89.4	224.0	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	7.5	Inc. seg. avg.	0.452	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	13.1	Inc. frq. avg.	1.085	Sample rate(MISamp/s): 24		dr window (ns/s)	-0.011 0.011
				n:az 161.1 el 82.3 pa -16.2	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00
				o: az 87.7 el 65.8 pa -74.9	simultaneous interpolator			
				u,v (fr/asec) 3162.702 181.674				

Fringe quality 8



SNR 8.2
Int time 299.972
Amp 1.736
Phase 112.1
PFD 4.5e-09
Delays (us)
SBD -0.978701
MBD -0.000007
Fringe rate (Hz)
-0.955534
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051956
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
59.4
0.5
1490.0
U/L 586/0
n 0
o 0
n:o 0:0
n:o 0:0
n 1000
o 1000
n W03UL
o W03UL

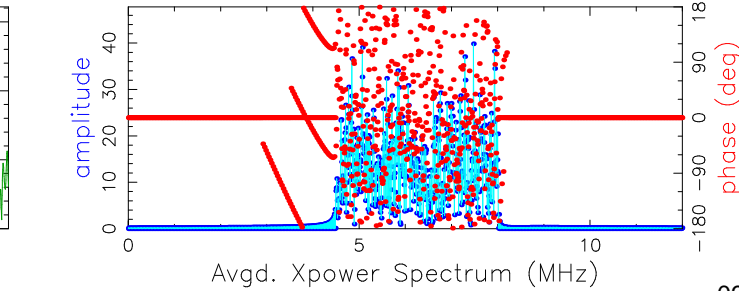
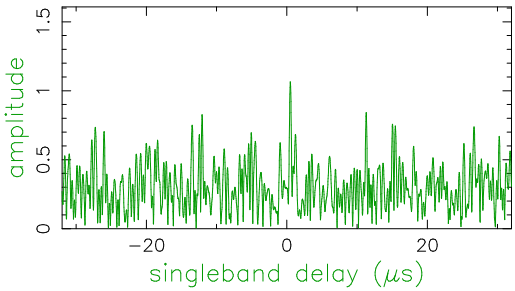
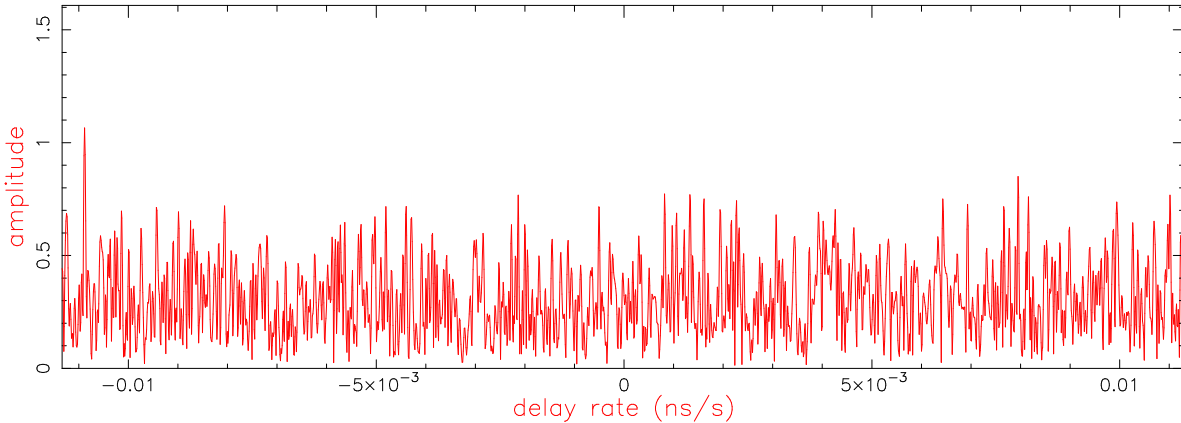
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.57663233832E+03	Apriori delay (usec)	1.57761104067E+03	Resid mbdelay (usec)	-6.58754E-06	+/- 5.6E-03
Sband delay (usec)	1.57663233934E+03	Apriori clock (usec)	1.127	Resid sbdelay (usec)	-9.78701E-01	+/- 5.6E-03
Phase delay (usec)	1.57761104259E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.91433E-06	+/- 4.5E-07
Delay rate (us/s)	-4.56573805989E-01	Apriori rate (us/s)	-4.56562713192E-01	Resid rate (us/s)	-1.10928E-05	+/- 2.6E-09
Total phase (deg)	127.8	Apriori accel (us/s/s)	-4.48754867620E-06	Resid phase (deg)	112.1	+/- 14.0

ph/seg (deg)	RMS 93.5	Theor. 119.8	Amplitude Search (2048X8)	1.736 +/- 0.212	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	80.5	209.1	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.0	Inc. seg. avg.	0.738	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.2	Inc. frq. avg.	1.723	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
n: az 161.1 el 82.3 pa -16.2	o: az 87.7 el 65.8 pa -74.9	u,v (fr/asec) 3162.702 181.674			Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
					nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

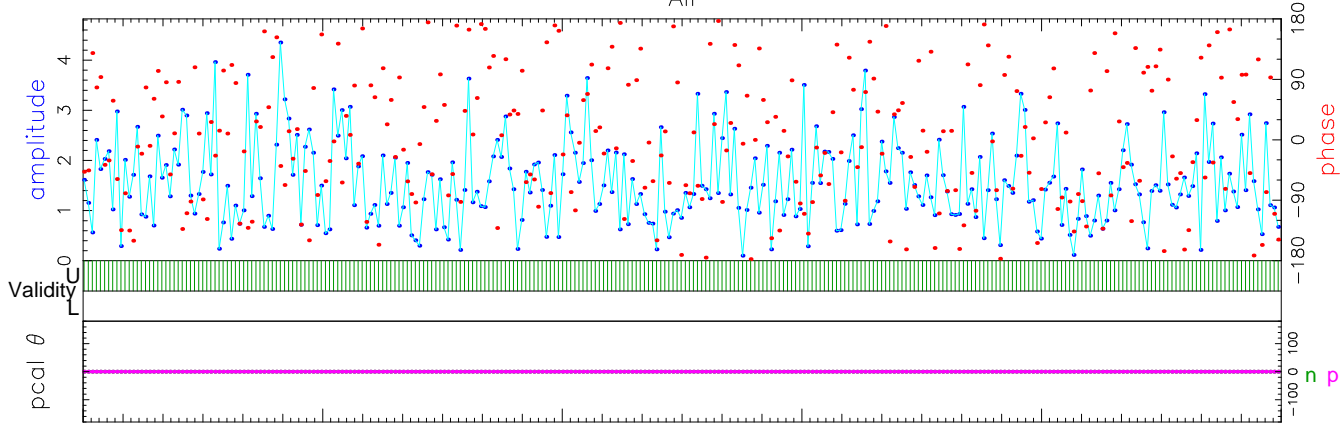
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/no..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/no.W.95.1T5GV4 simultaneous interpolator

Fringe quality 8



SNR 7.7
Int time 299.972
Amp 1.608
Phase -249.3
PFD 1.8e-07
Delays (us)
SBD 0.501971
MBD -0.000006
Fringe rate (Hz)
-0.936860
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051956
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-7.4
0.5
1561.1
U/L 586/0
n 0
p 0
n:p 0:0
n:p 0:0
n 1000
p 1000
n W03UL
p W03UL

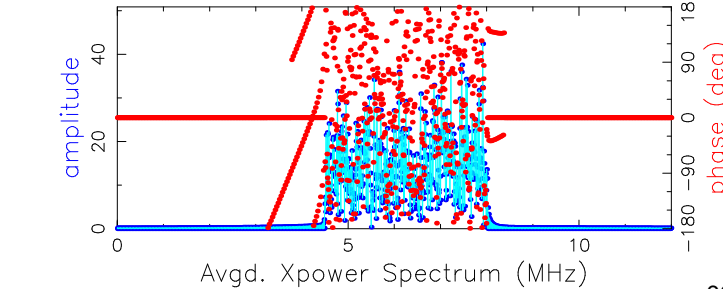
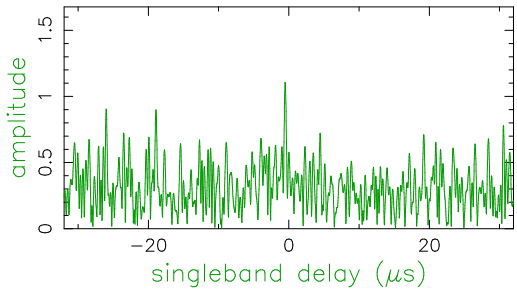
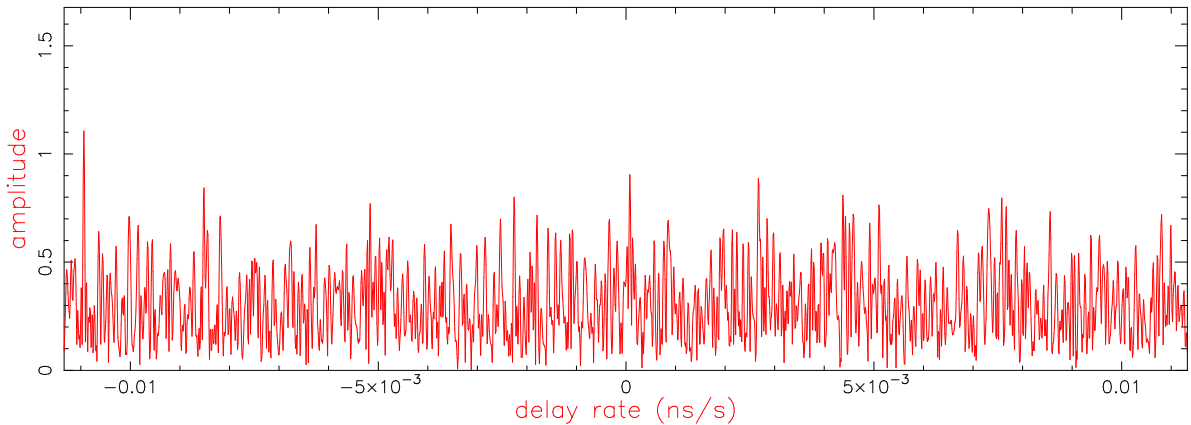
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	5.75721177289E+02	Apriori delay (usec)	5.75219205967E+02	Resid mbdelay (usec)	-6.01621E-06	+/- 5.9E-03
Sband delay (usec)	5.75721176633E+02	Apriori clock (usec)	-4.7000885E-02	Resid sbdelay (usec)	5.01971E-01	+/- 5.9E-03
Phase delay (usec)	5.75219205728E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.38760E-07	+/- 4.8E-07
Delay rate (us/s)	-3.03519378856E-01	Apriori rate (us/s)	-3.03508502846E-01	Resid rate (us/s)	-1.08760E-05	+/- 2.8E-09
Total phase (deg)	-104.6	Apriori accel (us/s/s)	3.47188477997E-06	Resid phase (deg)	-249.3	+/- 14.8

ph/seg (deg)	RMS 95.4	Theor. 127.0	Amplitude Search (2048X8)	1.608 +/- 0.208	1.048	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	91.2	221.6	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.4	Inc. seg. avg.	0.683	0.683	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.9	Inc. frq. avg.	1.595	1.595	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
n: az 161.1 el 82.3 pa -16.2	p: az 84.0 el 73.9 pa -85.4		u, v (fr/asec) 2110.722 920.190		Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
Control file: cf_1234_gmva_line		Input file: /Exps/c211d/v1/LINES1/1234/No0016/np..1T5GV4		Output file: /Exps/c211d/v1/LINES1/1234/No0016/np.W.100.1T5GV4		ion window (TEC) 0.00 0.00	

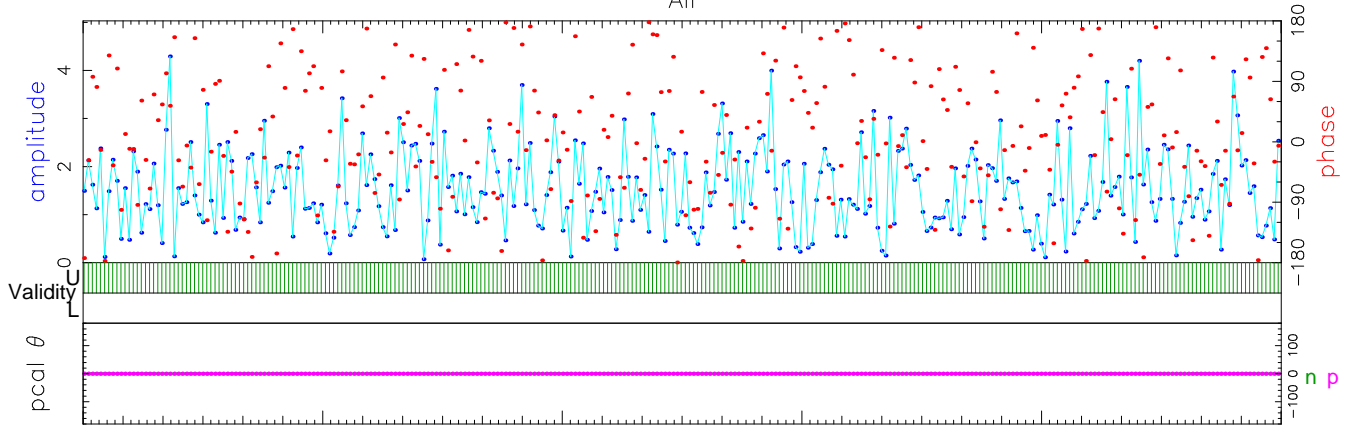
simultaneous interpolator

Fringe quality 8



SNR 8.0
Int time 299.972
Amp 1.677
Phase 37.9
PFD 1.7e-08
Delays (us)
SBD -0.518128
MBD -0.000005
Fringe rate (Hz)
-0.941556
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051958
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



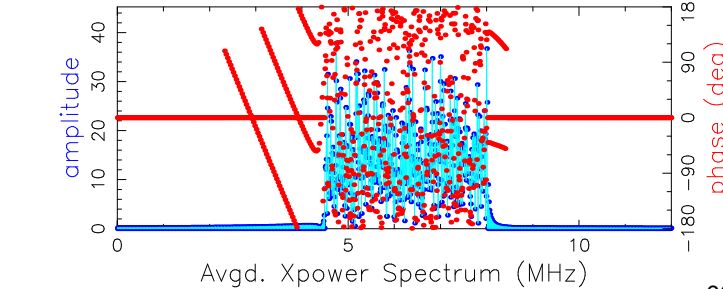
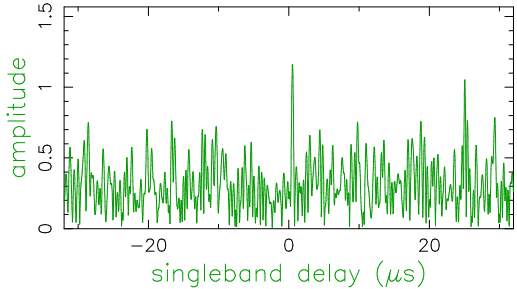
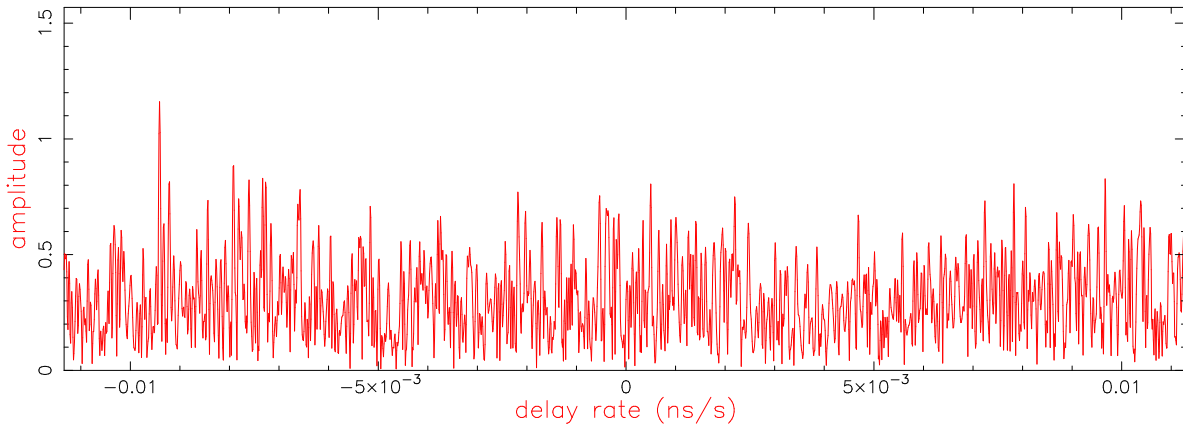
86227.00
10.3
0.5
1512.1
U/L 586/0
n 0
p 0
n:p 0:0
n:p 0:0
n 1000
p 1000
n W03UR
p W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	5.74701080027E+02	Apriori delay (usec)	5.75219205967E+02	Resid mbdelay (usec)	-5.16544E-06	+/- 5.7E-03
Sband delay (usec)	5.74701077967E+02	Apriori clock (usec)	-4.7000885E-02	Resid sbdelay (usec)	-5.18128E-01	+/- 5.7E-03
Phase delay (usec)	5.75219206300E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.33633E-07	+/- 4.6E-07
Delay rate (us/s)	-3.03519433383E-01	Apriori rate (us/s)	-3.03508502846E-01	Resid rate (us/s)	-1.09305E-05	+/- 2.7E-09
Total phase (deg)	182.6	Apriori accel (us/s/s)	3.47188477997E-06	Resid phase (deg)	37.9	+/- 14.3

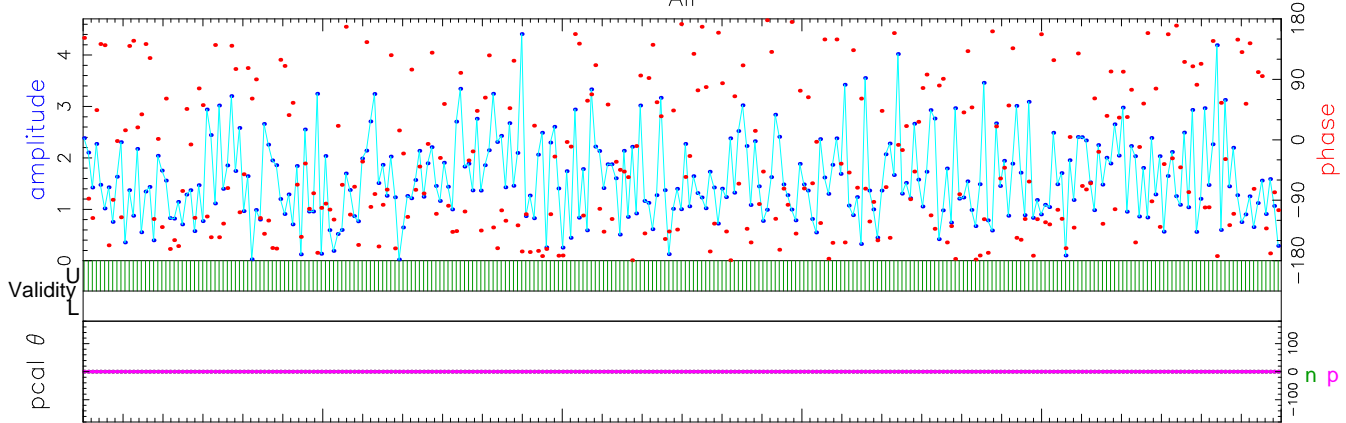
ph/seg (deg)	RMS 91.8	Theor. 122.3	Amplitude Search (2048X8)	1.677 +/- 0.209	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	86.7	213.5	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.1	Inc. seg. avg.	0.711	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.5	Inc. frq. avg.	1.664	Sample rate(MSamp/s): 24	dr window (ns/s) -0.011 0.011
n: az 161.1 el 82.3 pa -16.2	p: az 84.0 el 73.9 pa -85.4	u, v (fr/asec) 2110.722 920.190			Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva_line	Input file: /Exps/c211d/v1/LINES1/1234/No0016/np..1T5GV4	Output file: /Exps/c211d/v1/LINES1/1234/No0016/np.W.115.1T5GV4			nlags: 1536 t_cohere infinite	simultaneous interpolator

Fringe quality 8



SNR 8.4
Int time 299.972
Amp 1.568
Phase -278.7
PFD 6.4e-10
Delays (us)
SBD 0.521773
MBD -0.000007
Fringe rate (Hz)
-0.809561
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:052000
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-136.3
0.5
1562.0
U/L 586/0
n 0
p 0
n:p 0:0
n:p 0:0
n 1000
p 1000
n W03UL
p W03UR

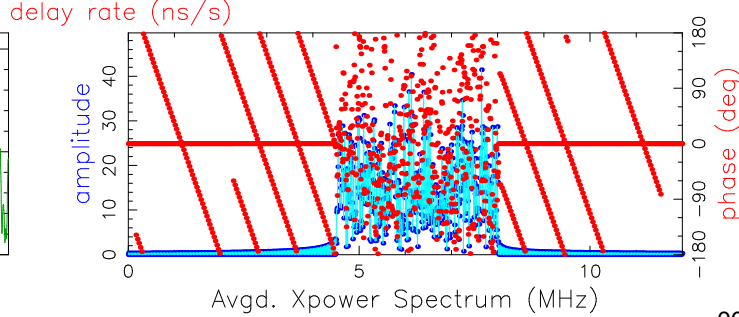
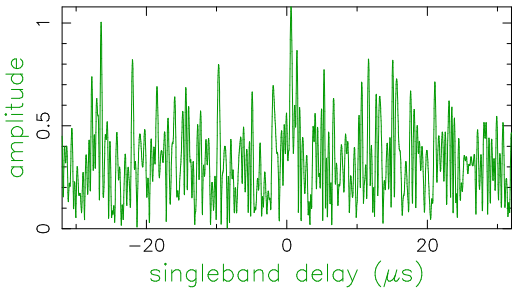
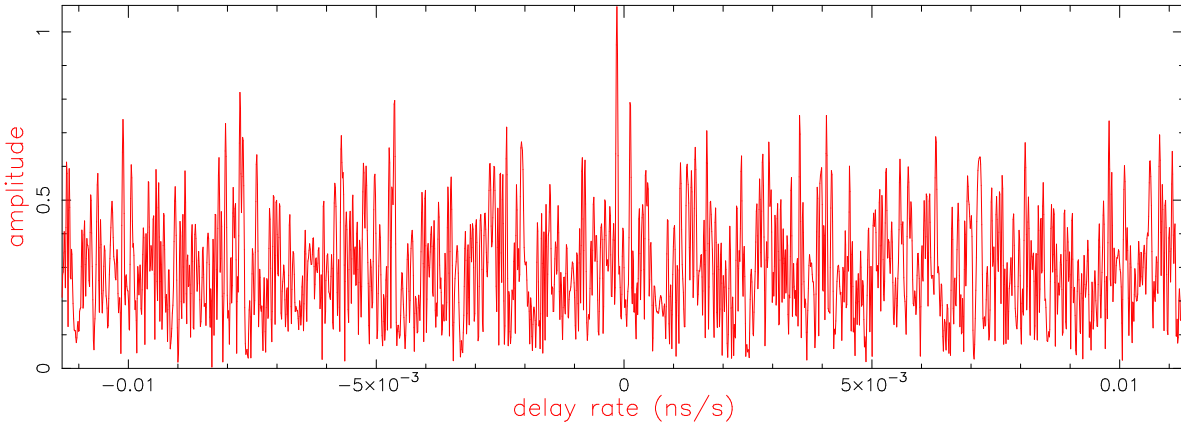
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	5.75740984662E+02	Apriori delay (usec)	5.75219205967E+02	Resid mbdelay (usec)	-6.82468E-06	+/-	5.5E-03
Sband delay (usec)	5.75740979300E+02	Apriori clock (usec)	-4.7000885E-02	Resid sbdelay (usec)	5.21773E-01	+/-	5.5E-03
Phase delay (usec)	5.75219201570E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.39637E-06	+/-	4.4E-07
Delay rate (us/s)	-3.03517901050E-01	Apriori rate (us/s)	-3.03508502846E-01	Resid rate (us/s)	-9.39820E-06	+/-	2.5E-09
Total phase (deg)	-133.9	Apriori accel (us/s/s)	3.47188477997E-06	Resid phase (deg)	-278.7	+/-	13.6

ph/seg (deg)	RMS 93.4	Theor. 116.5	Amplitude Search (2048X8)	1.151	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	79.6	203.3	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.8	Inc. seg. avg.	0.705	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	11.9	Inc. frq. avg.	1.557	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

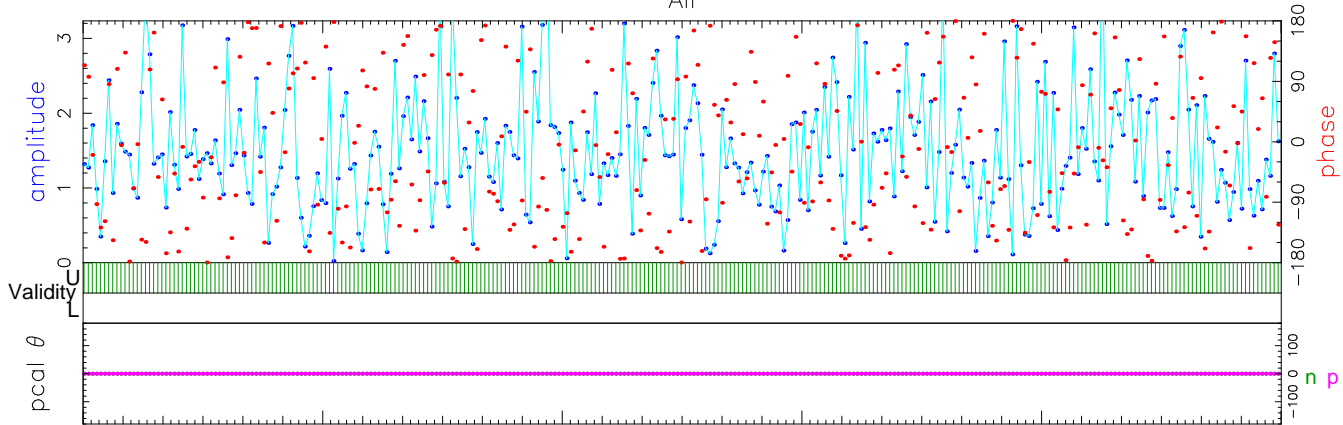
n: az 161.1 el 82.3 pa -16.2 p: az 84.0 el 73.9 pa -85.4 u,v (fr/asec) 2110.722 920.190 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/np..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/np.W.134.1T5GV4

Fringe quality 8



SNR 7.8
Int time 299.972
Amp 1.079
Phase -182.8
PFD 8.3e-08
Delays (us)
SBD 0.598767
MBD -0.000007
Fringe rate (Hz)
-0.012172
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:052001
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-149.3
0.3
1565.7
U/L 586/0
n 0
p 0
n:p 0:0
n:p 0:0
n 1000
p 1000
n W03UR
p W03UL

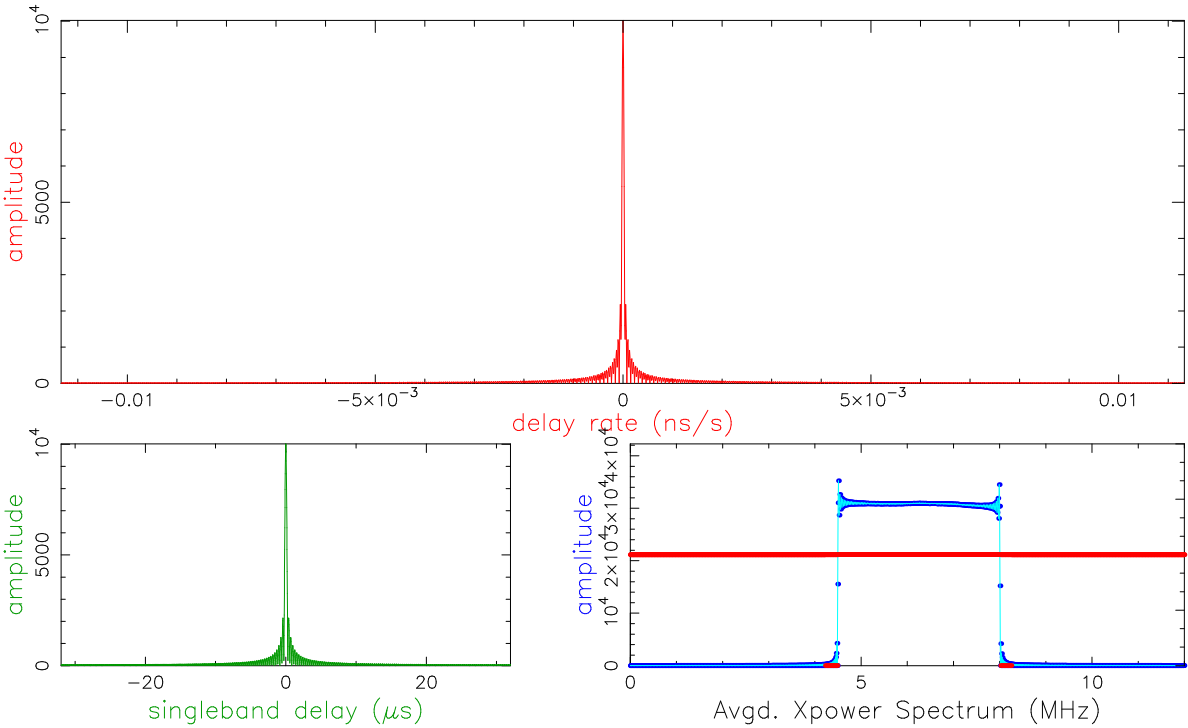
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	5.75817967607E+02	Apriori delay (usec)	5.75219205967E+02	Resid mbdelay (usec)	-6.72708E-06	+/-	5.9E-03
Sband delay (usec)	5.75817972633E+02	Apriori clock (usec)	-4.7000885E-02	Resid sbdelay (usec)	5.98767E-01	+/-	5.9E-03
Phase delay (usec)	5.75219201151E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.81591E-06	+/-	4.7E-07
Delay rate (us/s)	-3.03508644146E-01	Apriori rate (us/s)	-3.03508502846E-01	Resid rate (us/s)	-1.41300E-07	+/-	2.7E-09
Total phase (deg)	-38.1	Apriori accel (us/s/s)	3.47188477997E-06	Resid phase (deg)	-182.8	+/-	14.7

ph/seg (deg)	RMS 94.9	Theor. 125.4	Amplitude Search (2048X8)	1.079 +/- 0.138	1.069	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	85.1	218.9	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	7.3	Inc. seg. avg.	0.444	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.8	12.8	Inc. frq. avg.	1.066	Sample rate(MISamp/s): 24		dr window (ns/s)	-0.011 0.011
n: az 161.1 el 82.3 pa -16.2	p: az 84.0 el 73.9 pa -85.4	u, v (fr/asec)	2110.722 920.190	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00	

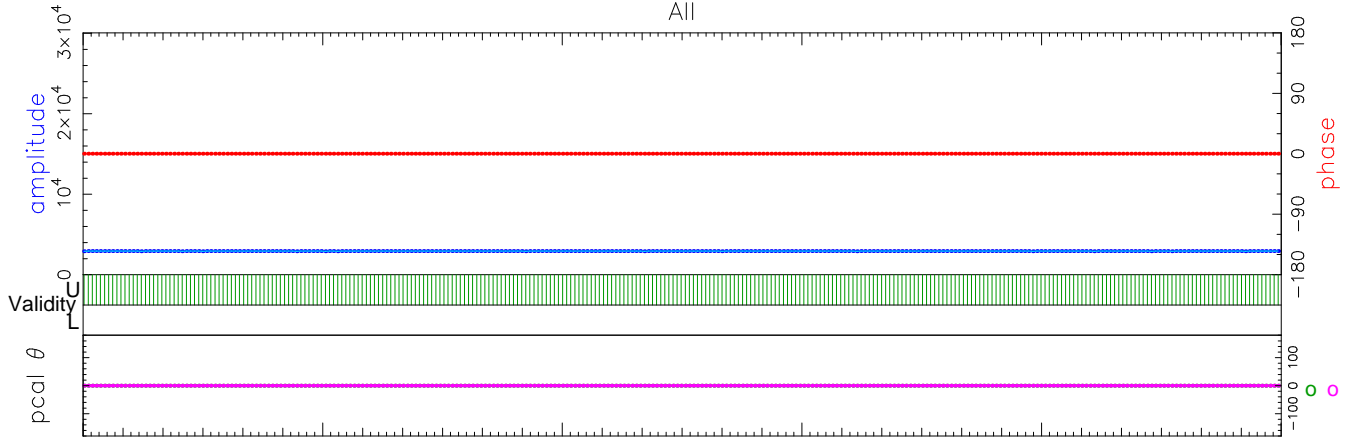
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/np..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/np.W.140.1T5GV4

simultaneous interpolator



Fringe quality 5
SNR 72664.7
Int time 299.974
Amp 10021.393
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051958
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All

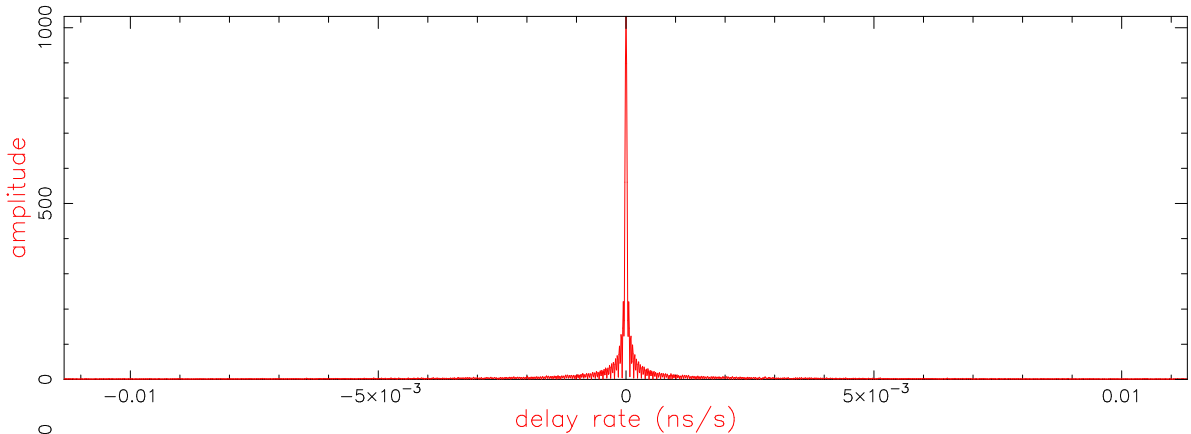


86227.00
0.2
2936.0
1537.0
U/L 586/0
o 0
o 0
o:0 0:0
o:0 0:0
o 1000
o 1000
o W03UR
o W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

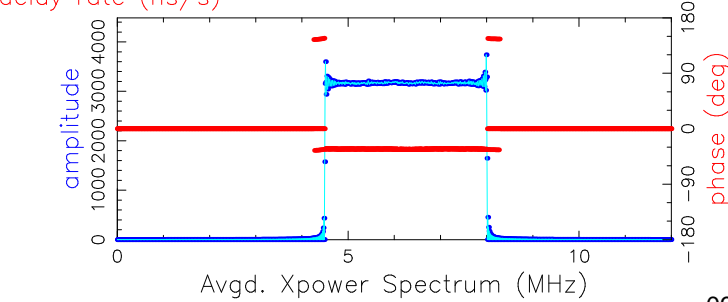
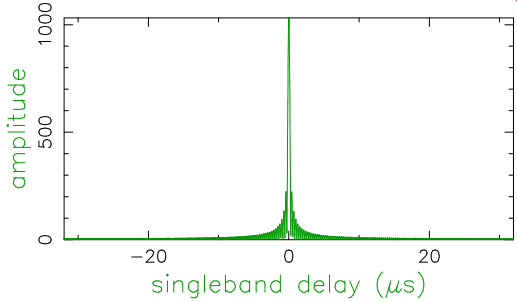
Group delay (usec)(sbd)	4.40488478087E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.19241E-06	+/- 6.3E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 6.3E-07
Phase delay (usec)	7.76519848936E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.76520E-09	+/- 5.1E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 2.9E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-0.1	+/- 0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10021.394 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 70.7 0.0 Search (2048X8) 10021.393 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 70.7 0.0 Inc. seg. avg. 2935.955 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011
o: az 87.7 el 65.8 pa -74.9 o: az 87.7 el 65.8 pa -74.9 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/oo..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/oo.W.119.1T5GV4 simultaneous interpolator



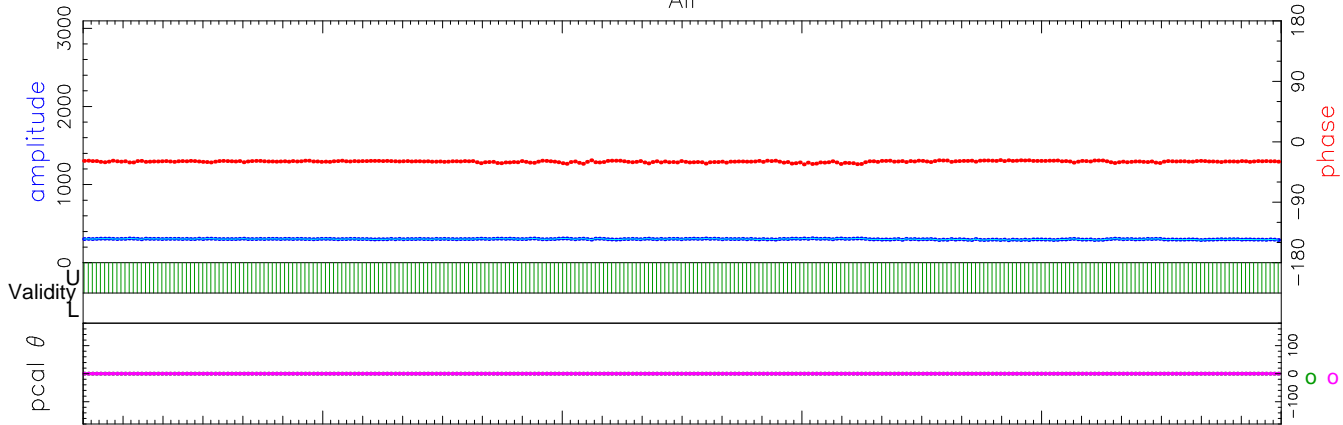
Fringe quality 5

SNR 7482.9
Int time 299.974
Amp 1031.981
Phase -77.4
PFD 0.0e+00
Delays (us)
SBD 0.001529
MBD -0.000004
Fringe rate (Hz)
0.000034
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051959
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



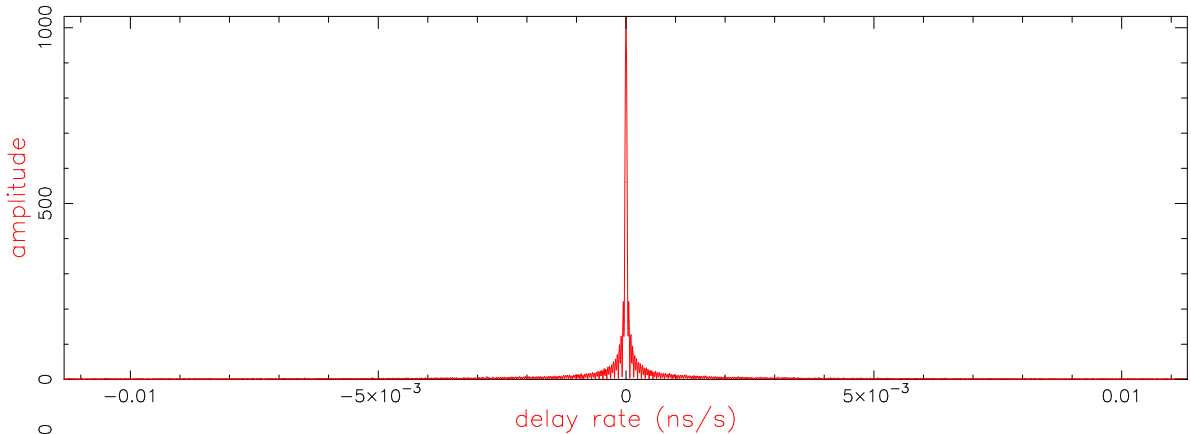
86227.00
-29.5
302.3
1537.1
U/L 586/0
o 0
o 0
o:0 0:0
o:0 0:0
o 1000
o 1000
o W03UL
o W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.52643580317E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.40720E-06	+/-	6.1E-06
Sband delay (usec)	1.52933333333E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.52933E-03	+/-	6.1E-06
Phase delay (usec)	-9.50454531984E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-9.50455E-07	+/-	4.9E-10
Delay rate (us/s)	3.91123806010E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	3.91124E-10	+/-	2.9E-12
Total phase (deg)	-77.4	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-77.4	+/-	0.0

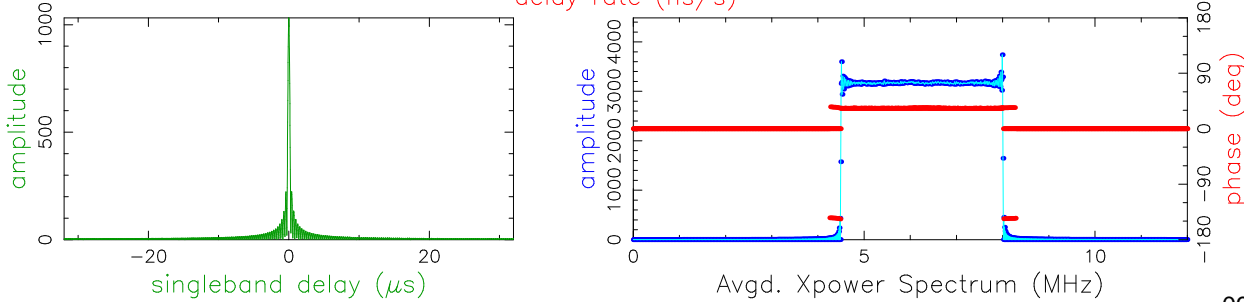
ph/seg (deg)	1.1	Theor.	0.1	Amplitude	1031.981 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.2	Search (2048X8)	1031.759	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	302.383	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	1031.932	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

o: az 87.7 el 65.8 pa -74.9 o: az 87.7 el 65.8 pa -74.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/oo..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/oo.W.128.1T5GV4



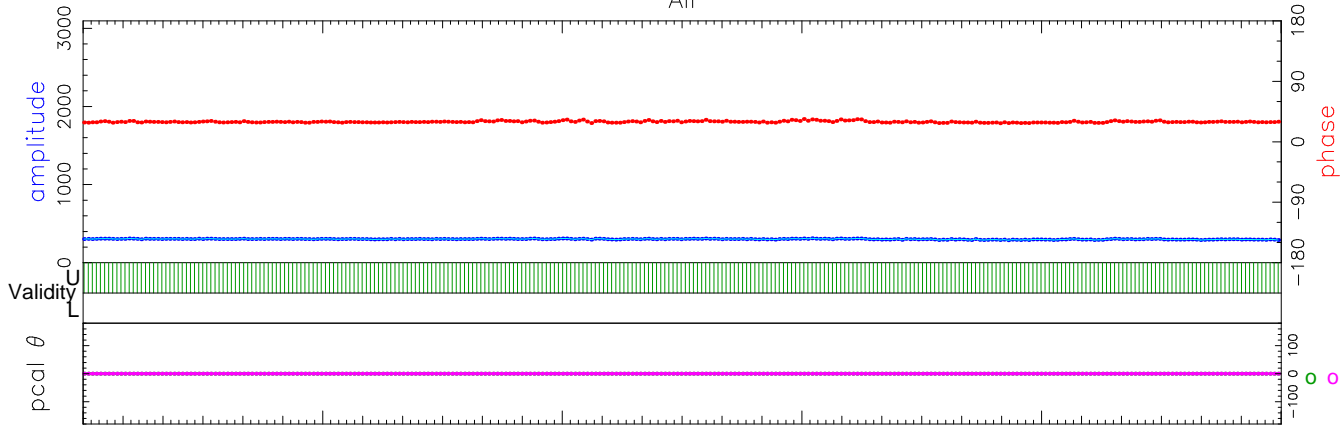
Fringe quality 5

SNR 7482.9
Int time 299.974
Amp 1031.981
Phase 77.4
PFD 0.0e+00
Delays (us)
SBD -0.001529
MBD -0.000004
Fringe rate (Hz)
-0.000034
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:052000
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



Freq (MHz)

86227.00
29.8
302.3
1536.9
U/L 586/0
o 0
o 0
o:0 0:0
o:0 0:0
o 1000
o 1000
o W03UR
o W03UL

Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

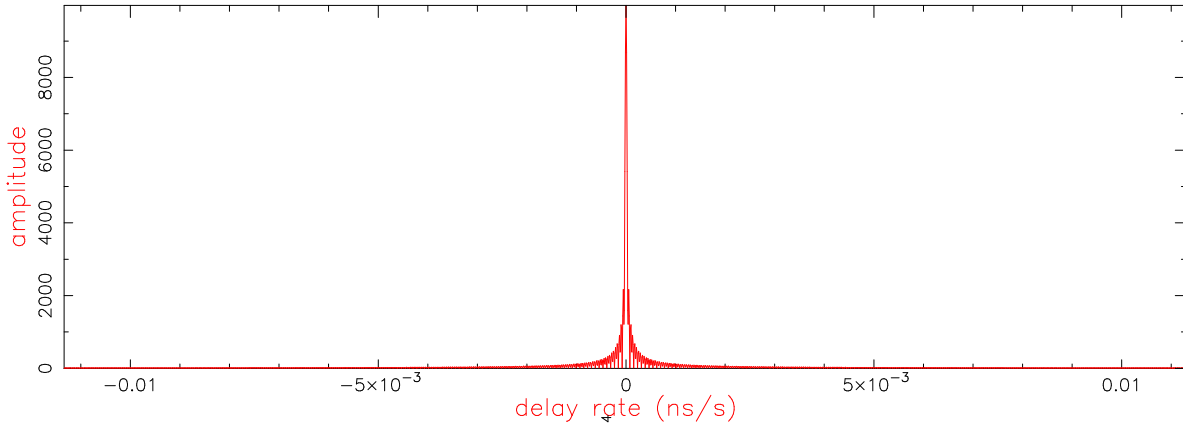
Group delay (usec)(sbd)	-1.52374536978E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.49966E-06	+/-	6.1E-06
Sband delay (usec)	-1.52933333333E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.52933E-03	+/-	6.1E-06
Phase delay (usec)	9.60070716701E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	9.60071E-07	+/-	4.9E-10
Delay rate (us/s)	-3.91123806010E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-3.91124E-10	+/-	2.9E-12
Total phase (deg)	77.4	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	77.4	+/-	0.0

ph/seg (deg)	1.1	Theor.	0.1	Amplitude	1031.981 +/- 0.138	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	70.7		0.2	Search (2048X8)	1031.759	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7		0.0	Inc. seg. avg.	302.383	Sample rate(MISamp/s):	24	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	1031.932	Data rate(Mb/s):	48	ion window (TEC)	0.00 0.00	

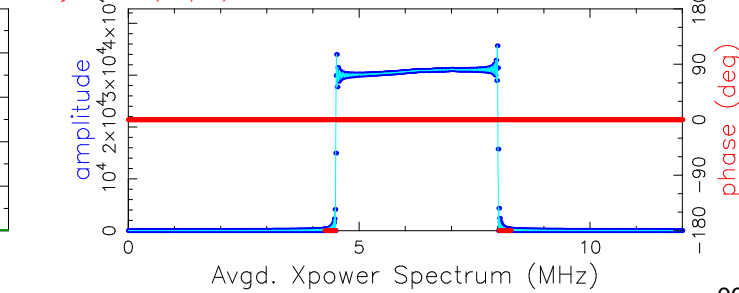
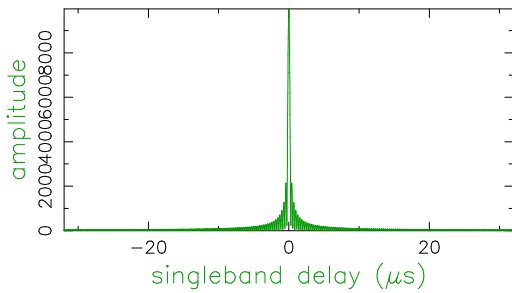
o: az 87.7 el 65.8 pa -74.9 o: az 87.7 el 65.8 pa -74.9 u, v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/oo..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/oo.W.133.1T5GV4

Fringe quality 5

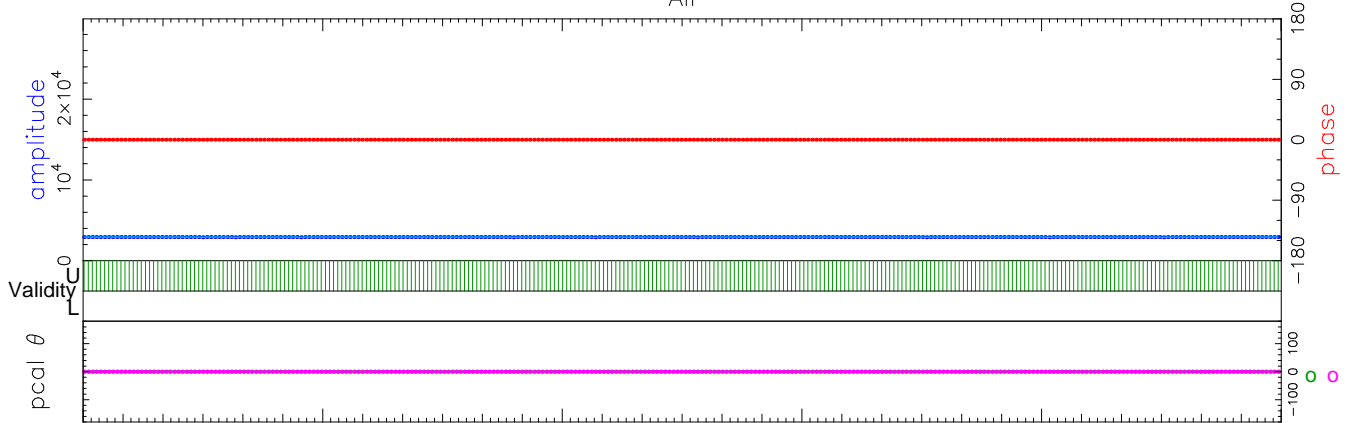


SNR 72366.3
Int time 299.974
Amp 9980.243
Phase 0.2
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000005
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051956
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
0.2
2923.9
1537.0
U/L 586/0
o 0
o 0
o:0 0:0
o:0 0:0
o 1000
o 1000
o W03UL
o W03UL

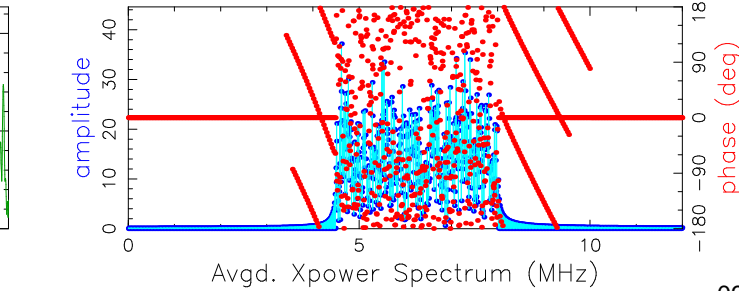
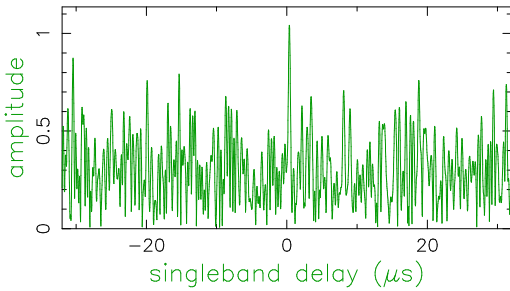
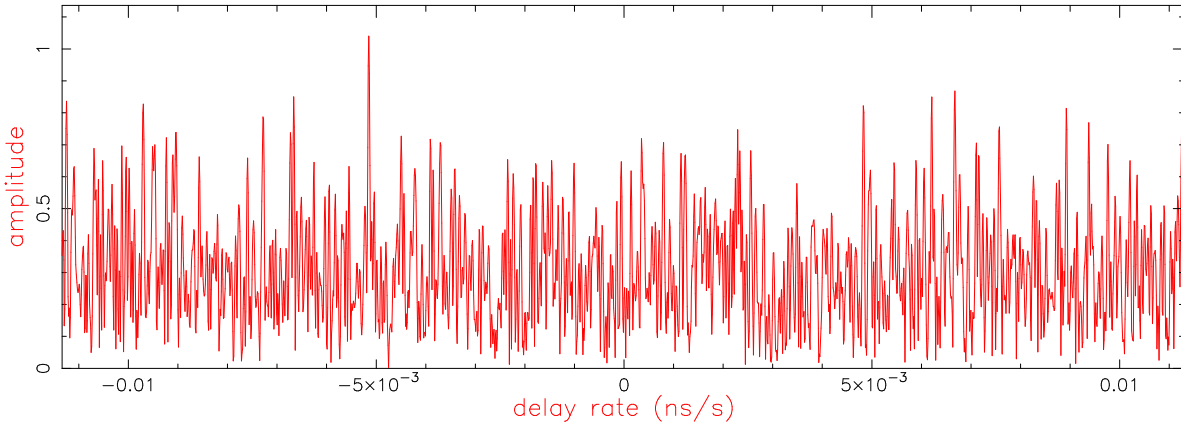
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.76648845489E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.76649E-06	+/-	6.3E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	5.14608110407E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.14608E-09	+/-	5.1E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.9E-13
Total phase (deg)	0.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	0.2	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	9980.243 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	0.0	0.0	Search (2048X8)	9980.243	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	0.0	0.0	Inc. seg. avg.	2923.899	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	9980.242	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

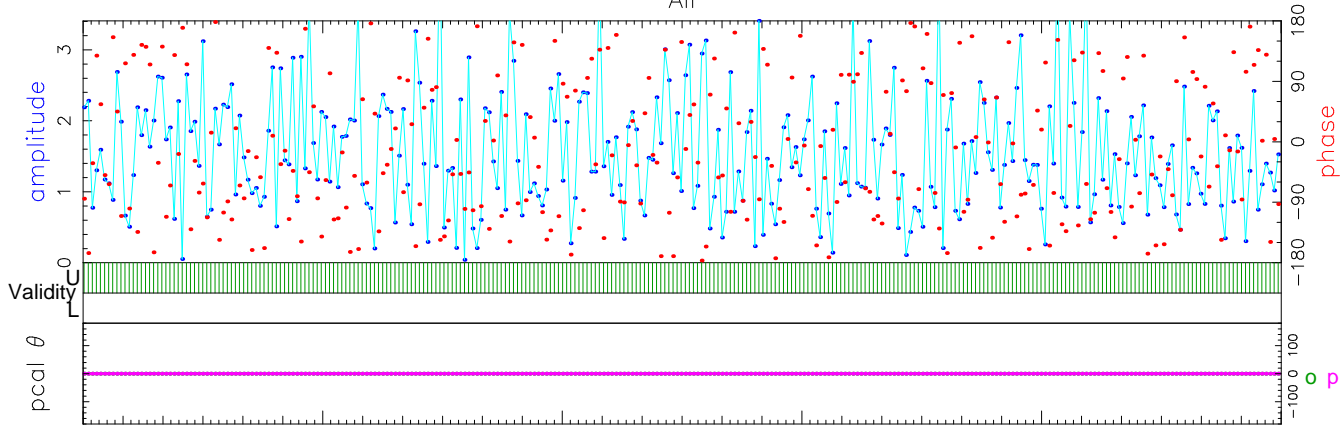
o: az 87.7 el 65.8 pa -74.9 o: az 87.7 el 65.8 pa -74.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/oo..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/oo.W.97.1T5GV4

Fringe quality 8



SNR 7.6
Int time 299.973
Amp 1.136
Phase -305.6
PFD 6.2e-07
Delays (us)
SBD 0.362913
MBD -0.000006
Fringe rate (Hz)
-0.443182
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051958
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-99.2
0.3
1554.4
U/L 586/0
o 0
p 0
o:p 0:0
op 0:0
o 1000
p 1000
o W03UL
p W03UL

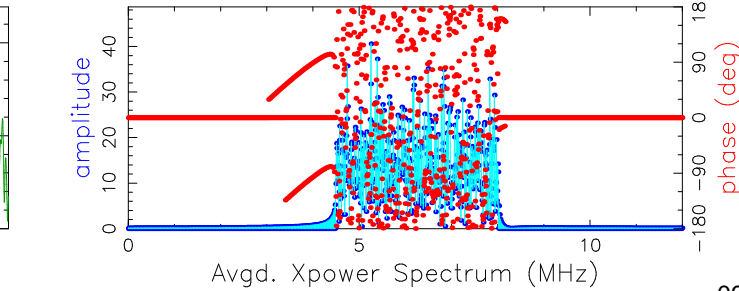
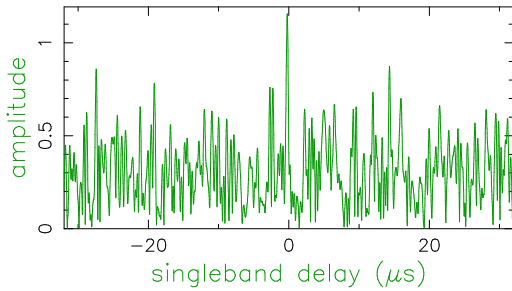
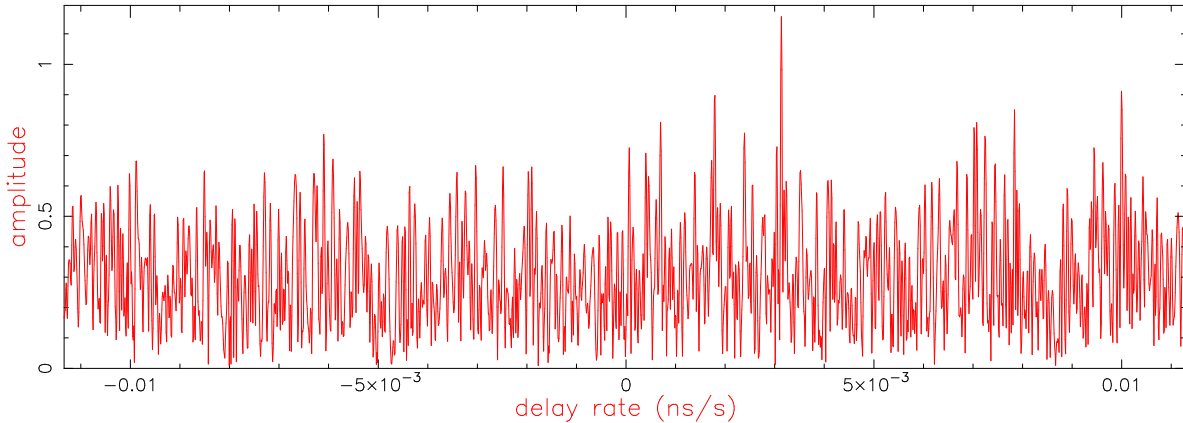
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.00202892605E+03	Apriori delay (usec)	-1.00239183471E+03	Resid mbdelay (usec)	-5.51057E-06	+/-	6.1E-03
Sband delay (usec)	-1.00202892137E+03	Apriori clock (usec)	-1.7760010E+00	Resid sbdelay (usec)	3.62913E-01	+/-	6.1E-03
Phase delay (usec)	-1.00239183791E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.19741E-06	+/-	4.9E-07
Delay rate (us/s)	1.53049065440E-01	Apriori rate (us/s)	1.53054210346E-01	Resid rate (us/s)	-5.14491E-06	+/-	2.8E-09
Total phase (deg)	-176.6	Apriori accel (us/s/s)	7.95943345616E-06	Resid phase (deg)	-305.6	+/-	15.2

ph/seg (deg)	RMS 95.5	Theor. 129.7	Amplitude Search (2048X8)	1.136 +/- 0.150	1.031	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	96.6	226.4	Interp.	0.000	0.479	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	7.6	Inc. seg. avg.	0.479	1.124	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.8	13.2	Inc. frq. avg.	1.124		Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

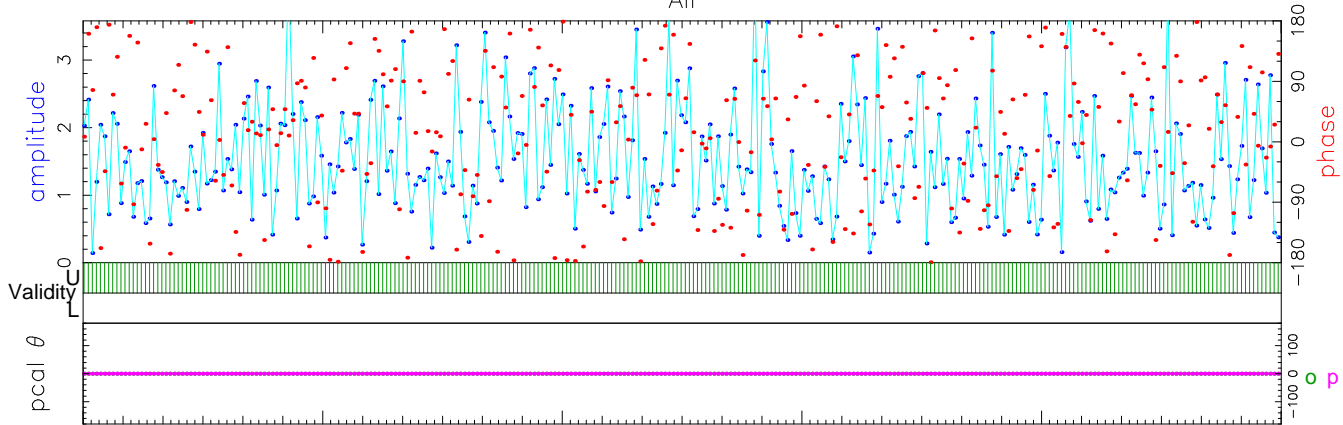
o: az 87.7 el 65.8 pa -74.9 p: az 84.0 el 73.9 pa -85.4 u,v (fr/asec) -1051.980 738.515 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/op..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/op.W.120.1T5GV4

Fringe quality 8



SNR 8.4
Int time 299.973
Amp 1.194
Phase 285.4
PFD 8.5e-10
Delays (us)
SBD -0.225460
MBD 0.000006
Fringe rate (Hz)
0.269901
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:052000
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
63.9
0.3
1526.2
U/L 586/0
o 0
p 0
o:p 0:0
op 0:0
o 1000
p 1000
o W03UR
p W03UR

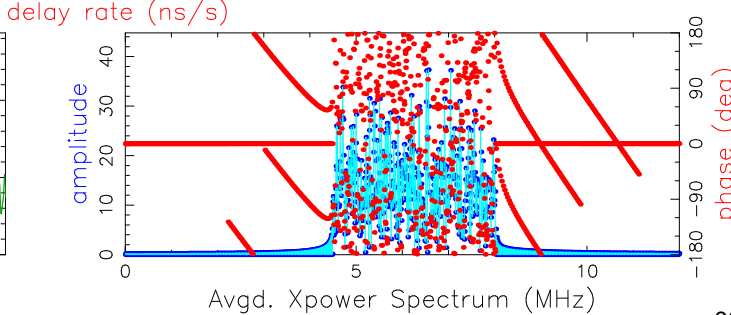
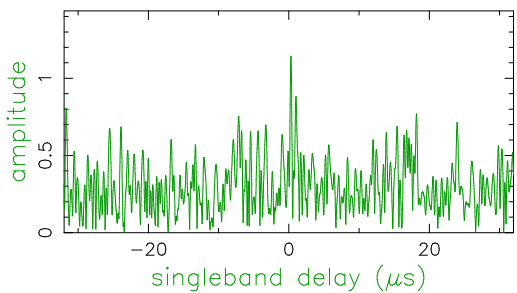
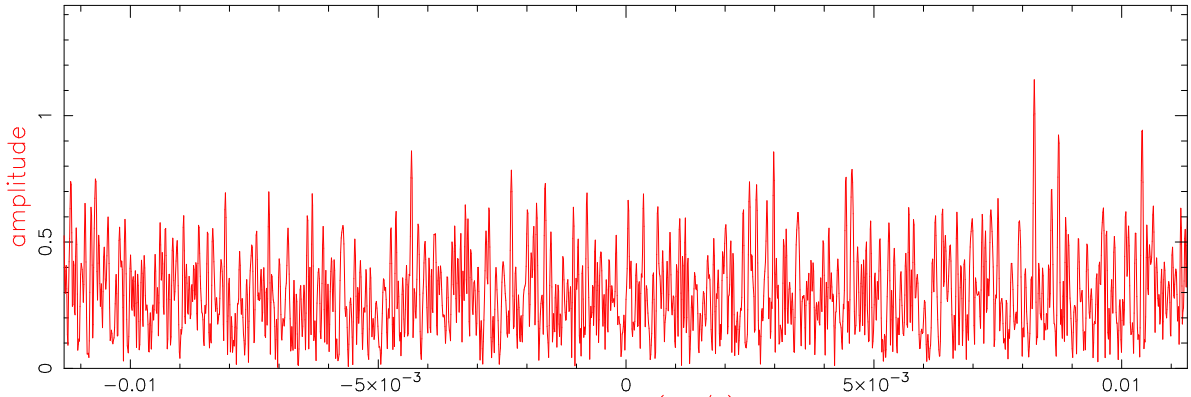
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.00261729187E+03	Apriori delay (usec)	-1.00239183471E+03	Resid mbdelay (usec)	5.86480E-06	+/-	5.5E-03
Sband delay (usec)	-1.00261729471E+03	Apriori clock (usec)	-1.7760010E+00	Resid sbdelay (usec)	-2.25460E-01	+/-	5.5E-03
Phase delay (usec)	-1.00239183265E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.06034E-06	+/-	4.4E-07
Delay rate (us/s)	1.53057343631E-01	Apriori rate (us/s)	1.53054210346E-01	Resid rate (us/s)	3.13328E-06	+/-	2.5E-09
Total phase (deg)	54.4	Apriori accel (us/s/s)	7.95943345616E-06	Resid phase (deg)	285.4	+/-	13.7

ph/seg (deg)	RMS 94.3	Theor. 116.9	Amplitude Search (2048X8)	1.151	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	78.0	204.1	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Inc. seg. avg.	0.516	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.9	Inc. frq. avg.	1.185	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				u,v (fr/asec) -1051.980 738.515	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite
				o: az 87.7 el 65.8 pa -74.9	ion window (TEC) 0.00 0.00	
				p: az 84.0 el 73.9 pa -85.4	simultaneous interpolator	

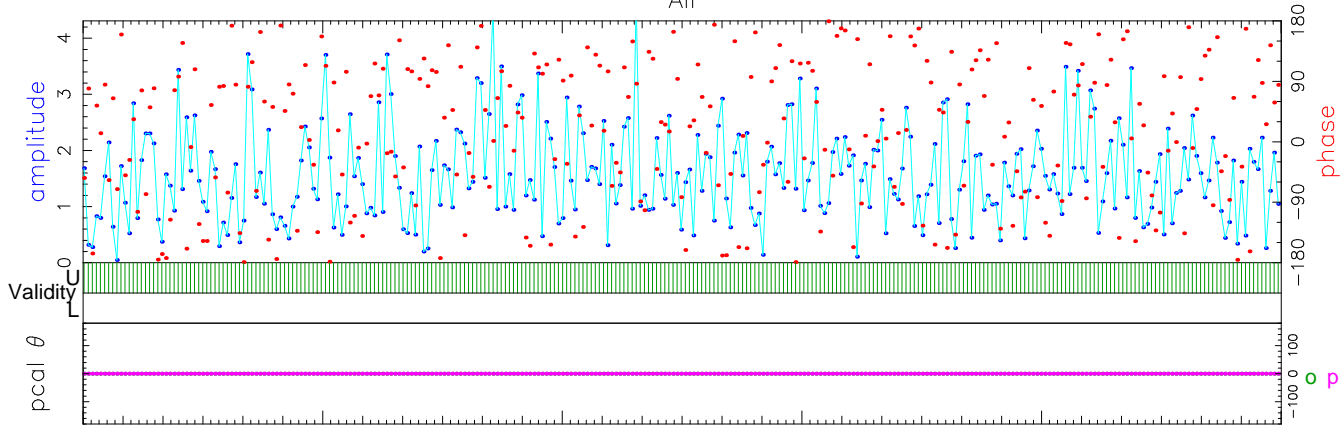
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/op..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/op.W.135.1T5GV4

Fringe quality 8



SNR 8.3
Int time 299.973
Amp 1.437
Phase -13.1
PFD 1.7e-09
Delays (us)
SBD 0.302004
MBD 0.000005
Fringe rate (Hz)
0.708380
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:052001
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
85.4
0.4
1551.5
U/L 586/0
o 0
p 0
o:p 0:0
op 0:0
o 1000
p 1000
o W03UL
p W03UR

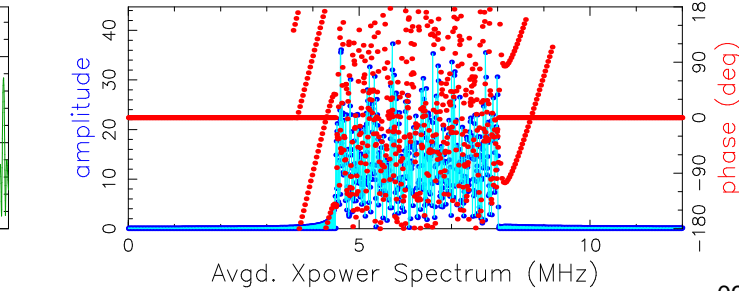
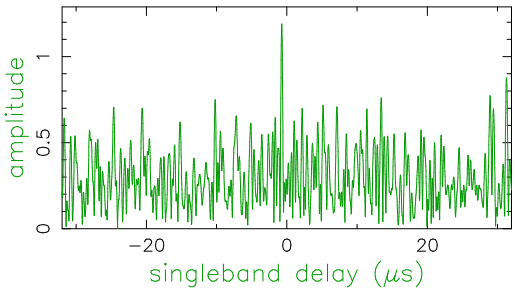
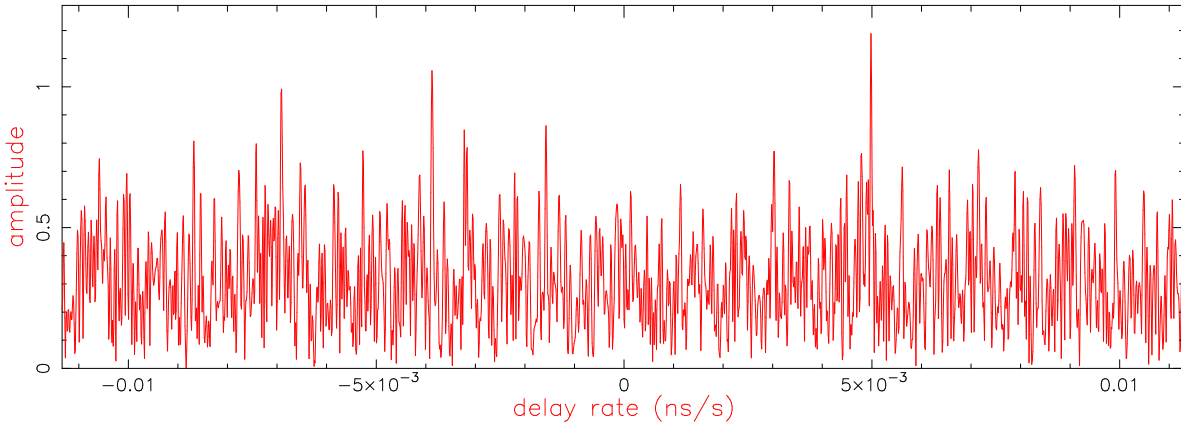
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.00208983598E+03	Apriori delay (usec)	-1.00239183471E+03	Resid mbdelay (usec)	5.15031E-06	+/-	5.5E-03
Sband delay (usec)	-1.00208983071E+03	Apriori clock (usec)	-1.7760010E+00	Resid sbdelay (usec)	3.02004E-01	+/-	5.5E-03
Phase delay (usec)	-1.00239183196E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.75261E-06	+/-	4.4E-07
Delay rate (us/s)	1.53062433931E-01	Apriori rate (us/s)	1.53054210346E-01	Resid rate (us/s)	8.22358E-06	+/-	2.6E-09
Total phase (deg)	-244.1	Apriori accel (us/s/s)	7.95943345616E-06	Resid phase (deg)	-13.1	+/-	13.8

ph/seg (deg)	RMS 92.6	Theor. 118.1	Amplitude Search (2048X8)	1.437 +/- 0.173	1.137	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	82.7	206.1	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.633	0.0000000E+00	Bits/sample: 2x2	mb window (us) -0.000 0.000
amp/frq (%)	70.8	12.0	Inc. frq. avg.	1.423	1.53054210346E-01	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				o: az 87.7 el 65.8 pa -74.9	u,v (fr/asec) -1051.980 738.515	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				p: az 84.0 el 73.9 pa -85.4	nlags: 1536 t_cohere infinite		

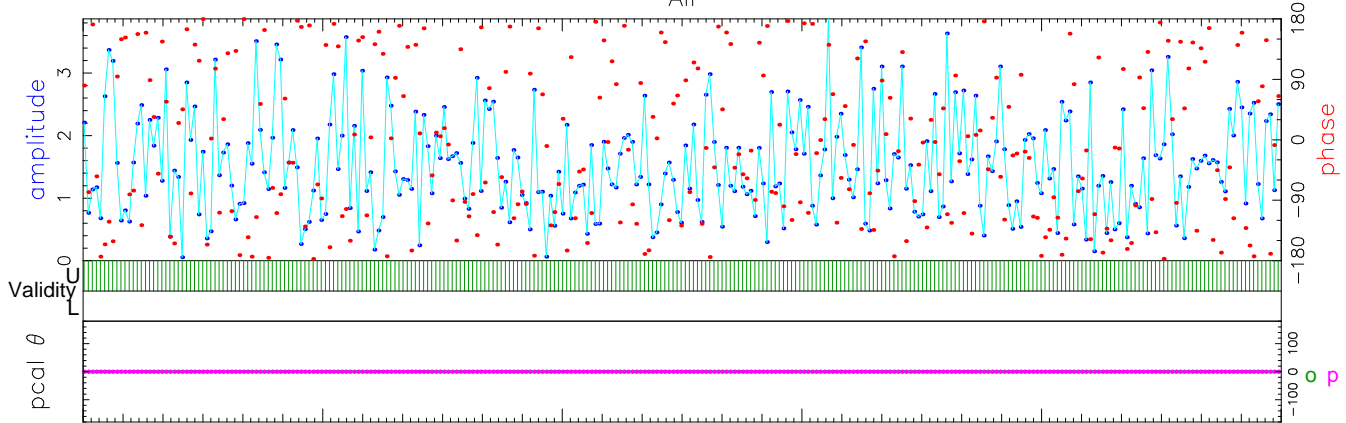
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/op..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/op.W.141.1T5GV4 simultaneous interpolator

Fringe quality 8



SNR 8.6
Int time 299.973
Amp 1.289
Phase 255.4
PFD 1.1e-10
Delays (us)
SBD -0.725507
MBD 0.000007
Fringe rate (Hz)
0.428535
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:052001
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



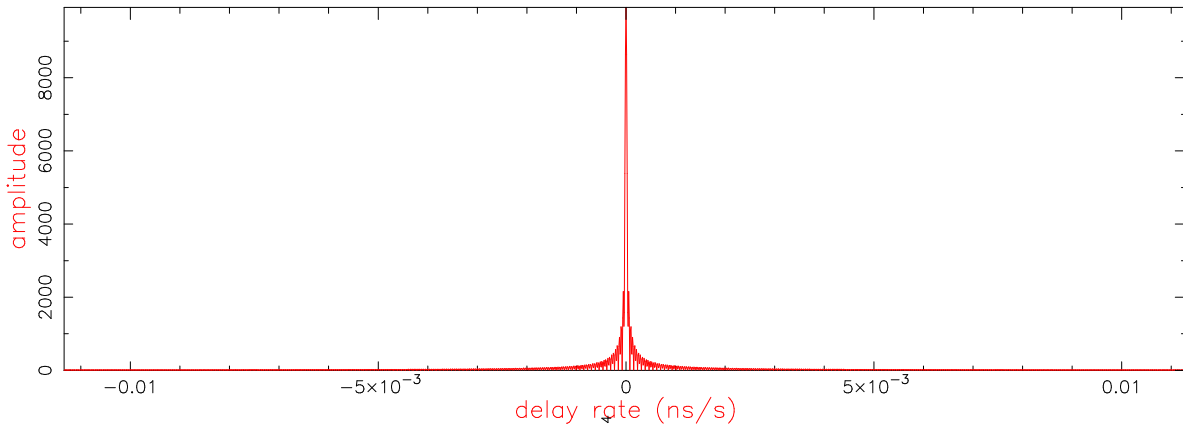
86227.00
-147.8
0.4
1502.2
U/L 586/0
o 0
p 0
o:p 0:0
op 0:0
o 1000
p 1000
o W03UR
p W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

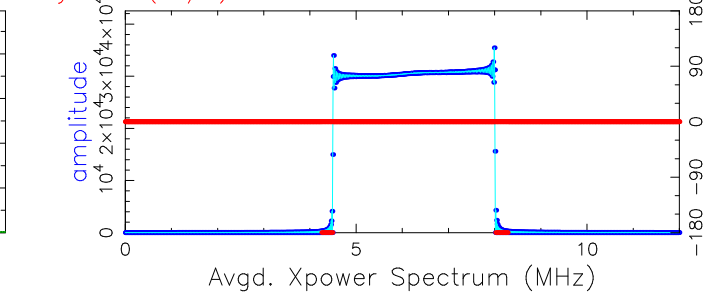
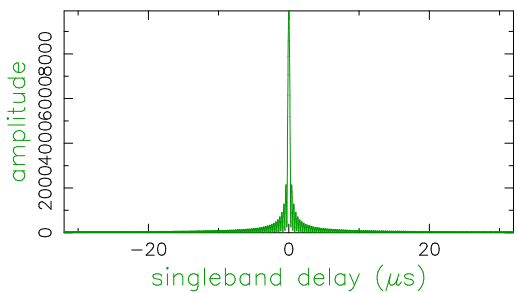
Group delay (usec)(sbd)	-1.00311734336E+03	Apriori delay (usec)	-1.00239183471E+03	Resid mbdelay (usec)	6.55711E-06	+/-	5.3E-03
Sband delay (usec)	-1.00311734137E+03	Apriori clock (usec)	-1.7760010E+00	Resid sbdelay (usec)	-7.25507E-01	+/-	5.3E-03
Phase delay (usec)	-1.00239183947E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.76556E-06	+/-	4.3E-07
Delay rate (us/s)	1.53059185217E-01	Apriori rate (us/s)	1.53054210346E-01	Resid rate (us/s)	4.97487E-06	+/-	2.5E-09
Total phase (deg)	24.3	Apriori accel (us/s/s)	7.95943345616E-06	Resid phase (deg)	255.4	+/-	13.3

ph/seg (deg)	RMS 92.7	Theor. 113.7	Amplitude Search (2048X8)	1.289 +/- 0.149	1.156	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.5	198.5	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.559	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.6	Inc. frq. avg.	1.280	0.000	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
			o: az 87.7 el 65.8 pa -74.9	p: az 84.0 el 73.9 pa -85.4	u,v (fr/asec) -1051.980 738.515	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
						nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

Fringe quality 5

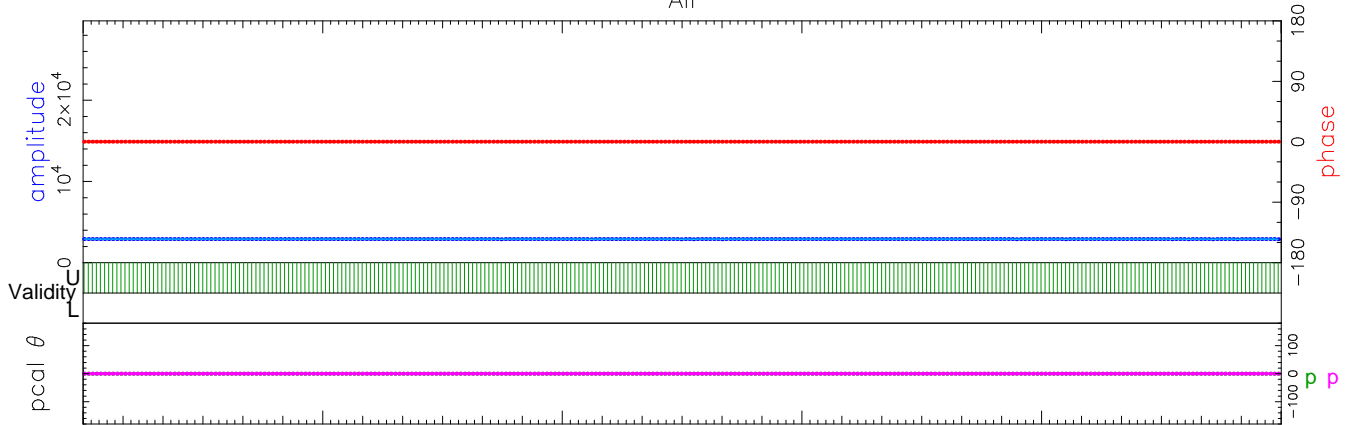


SNR 71962.4
Int time 299.973
Amp 9924.565
Phase 0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000004
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051958
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"

Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
0.1
2907.6
1537.0
U/L 586/0
p 0
p 0
p:p 0:0
p:p 0:0
p 1000
p 1000
p W03UL
p W03UL

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-4.41277094182E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.41277E-06	+/-	6.4E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.4E-07
Phase delay (usec)	4.76419430681E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.76419E-09	+/-	5.1E-11
Delay rate (us/s)	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.0E-13
Total phase (deg)	0.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	0.1	+/-	0.0

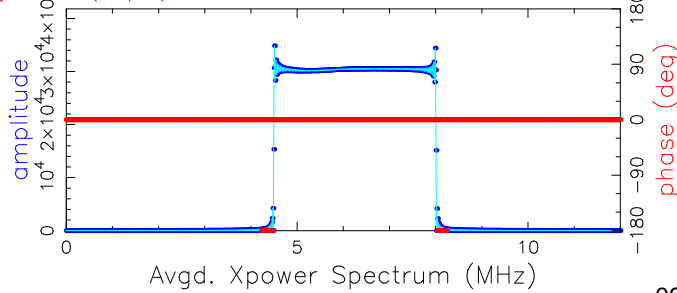
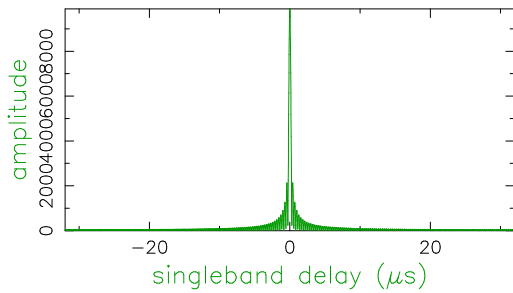
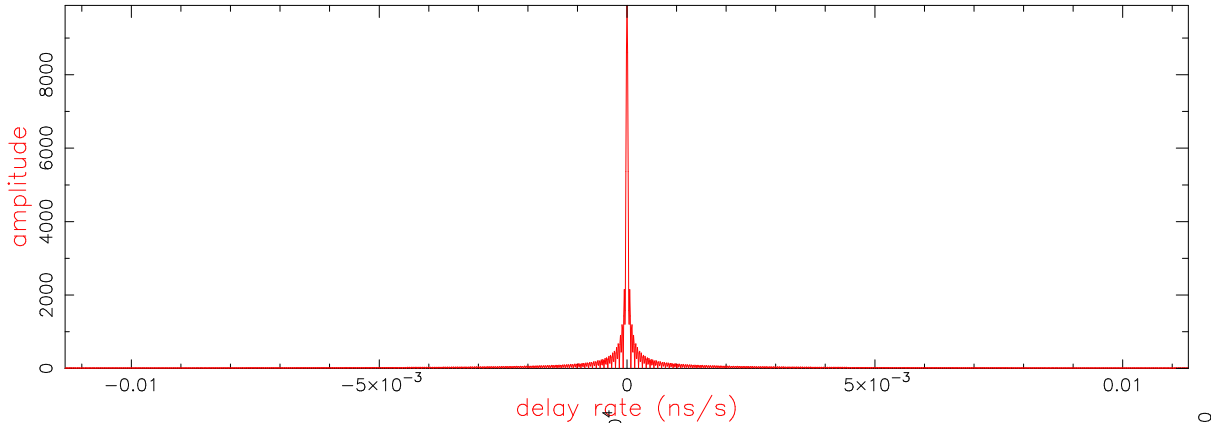
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	9924.565 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	9924.565	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2907.587	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	9924.564	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
						nlags: 1536 t_cohere infinite	

p: az 84.0 el 73.9 pa -85.4 p: az 84.0 el 73.9 pa -85.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/pp..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/pp.W.111.1T5GV4

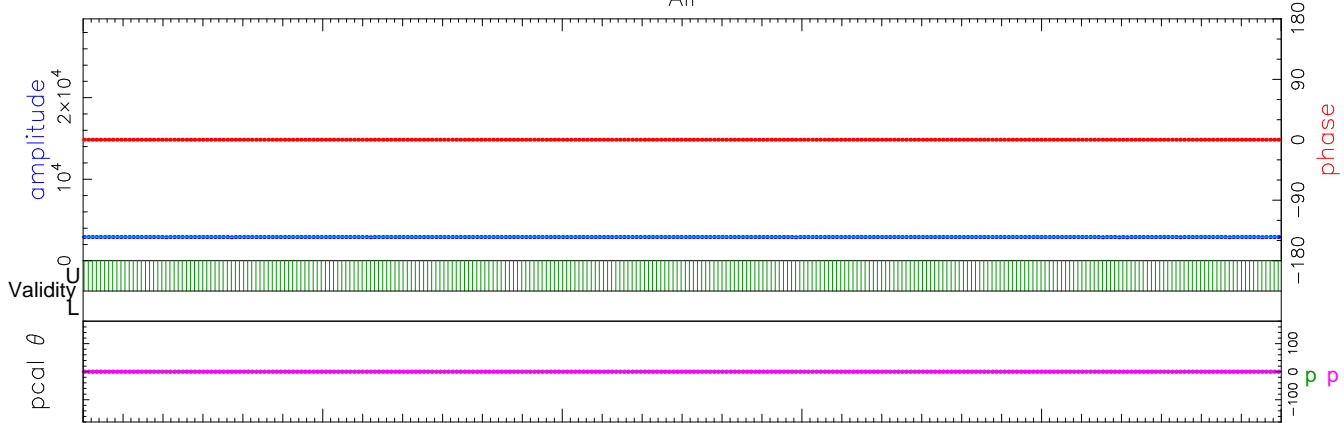
Fringe quality 5

SNR 71726.3
Int time 299.973
Amp 9891.997
Phase -0.2
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000006
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:051959
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
0.2
2898.0
1537.0
U/L 586/0
p 0
p 0
p:p 0:0
p:p 0:0
p 1000
p 1000
p W03UR
p W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	5.65725352848E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-5.94004E-06	+/-	6.4E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.4E-07
Phase delay (usec)	6.41309385124E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.41309E-09	+/-	5.2E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.0E-13
Total phase (deg)	-0.2	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.2	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	9891.997 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	9891.997	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2898.046	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	9891.997	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

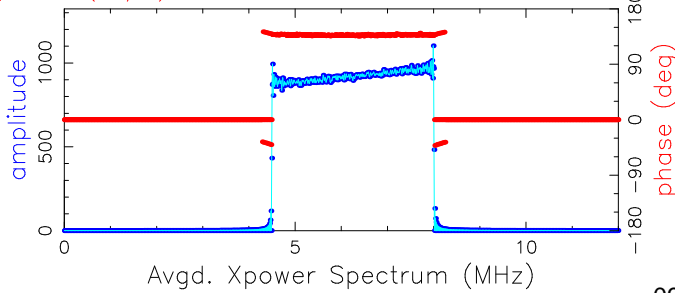
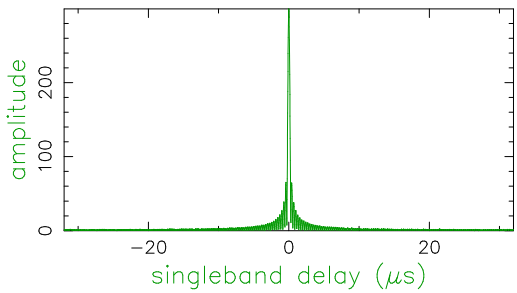
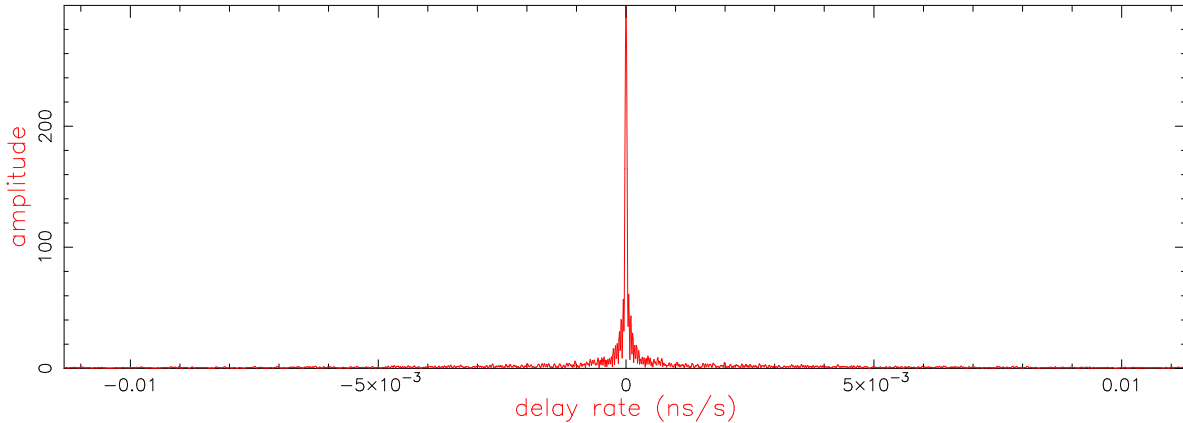
p: az 84.0 el 73.9 pa -85.4 p: az 84.0 el 73.9 pa -85.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/pp..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/pp.W.126.1T5GV4

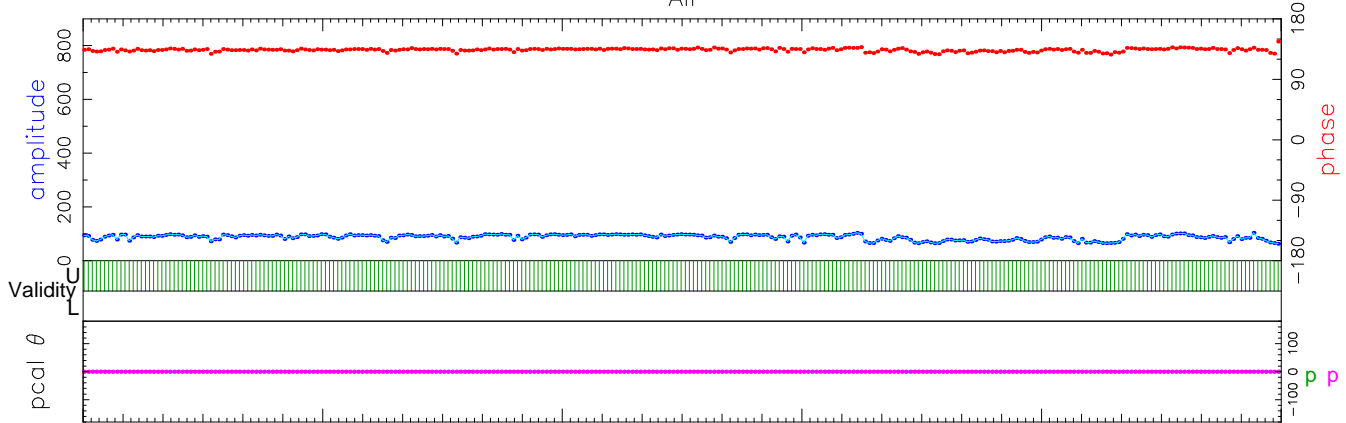
Fringe quality 5

SNR 2173.8
Int time 299.973
Amp 299.798
Phase 184.1
PFD 0.0e+00
Delays (us)
SBD -0.001603
MBD -0.000007
Fringe rate (Hz)
-0.000009
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:052000
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
134.0
87.8
1536.9
U/L 586/0
p 0
p 0
p:p 0:0
p:p 0:0
p 1000
p 1000
p W03UL
p W03UR

Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.60729052385E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.86374E-06	+/-	2.1E-05
Sband delay (usec)	-1.6026666667E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.60267E-03	+/-	2.1E-05
Phase delay (usec)	4.32054590869E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.32055E-06	+/-	1.7E-09
Delay rate (us/s)	-1.01323739601E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-1.01324E-10	+/-	9.8E-12
Total phase (deg)	184.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	184.1	+/-	0.1

ph/seg (deg)	2.3	Theor.	0.5	Amplitude	299.798 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.8		0.8	Search (2048X8)	299.779	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	87.885	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	299.782	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

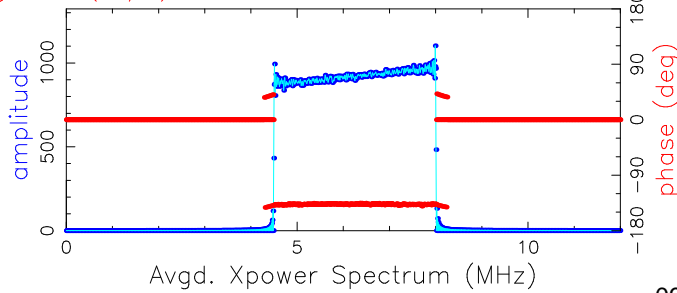
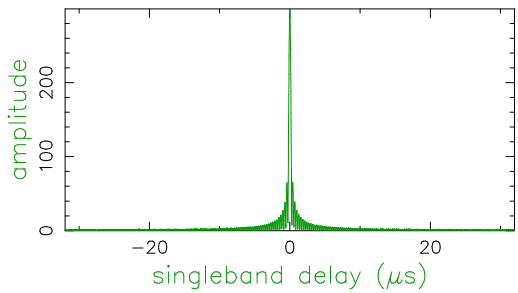
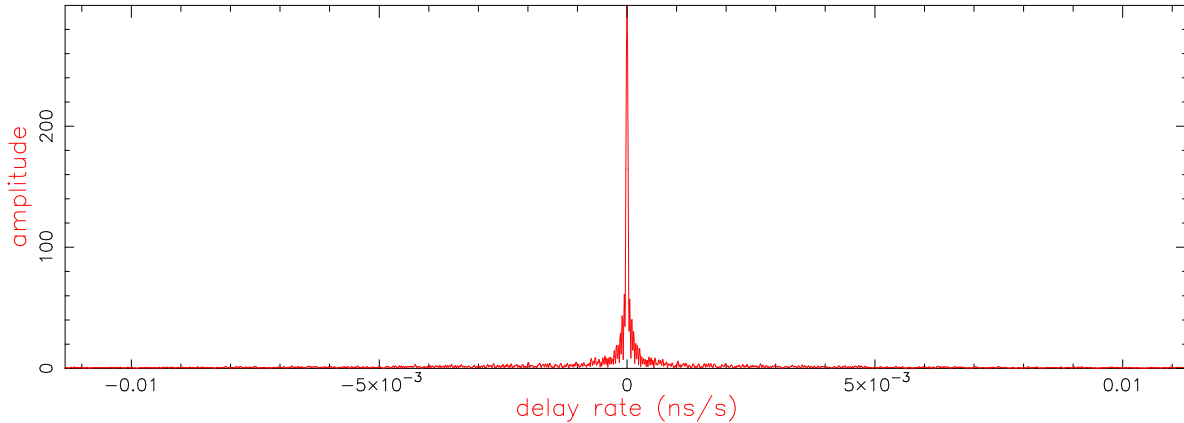
p: az 84.0 el 73.9 pa -85.4 p: az 84.0 el 73.9 pa -85.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/pp..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/pp.W.132.1T5GV4

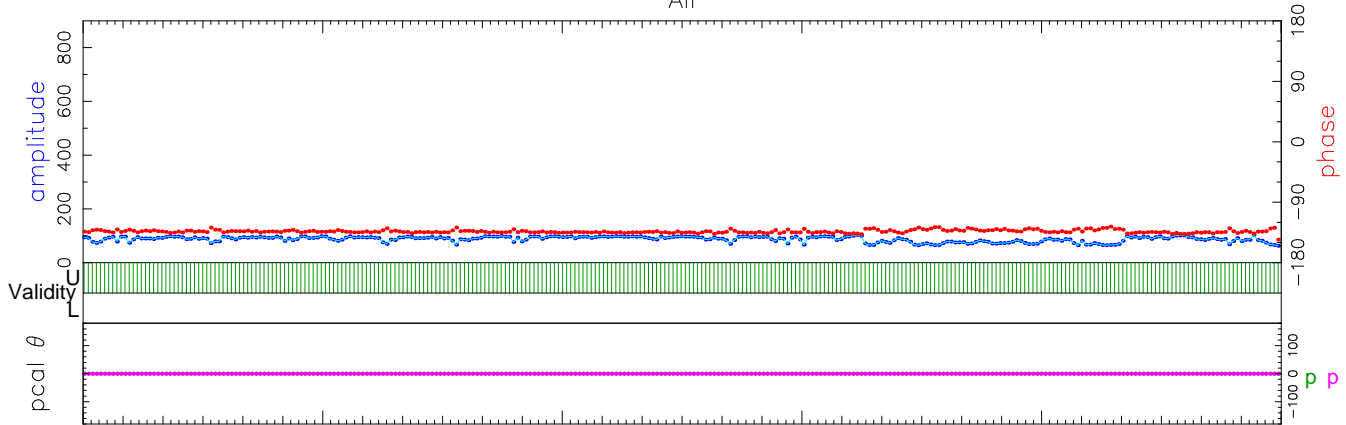
Fringe quality 5

SNR 2173.8
Int time 299.973
Amp 299.798
Phase -184.1
PFD 0.0e+00
Delays (us)
SBD 0.001603
MBD -0.000005
Fringe rate (Hz)
0.000009
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 012100.00
Stop 012600.03
FRT 012330.00
Corr/FF/build
2021:228:043119
2021:228:052000
2021:057:122453
RA & Dec (J2000)
09h45m34.287498s
+34°30'42.760780"



Amp. and Phase vs. time for each freq., 293 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



Freq (MHz)

Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp

Chan ids

Chan ids

86227.00
-133.6
87.8
1537.1
U/L 586/0
p 0
p 0
p:p 0:0
p:p 0:0
p 1000
p 1000
p W03UR
p W03UL

Group delay (usec)(sbd)	1.60672179248E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.30228E-06	+/-	2.1E-05
Sband delay (usec)	1.6026666667E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.60267E-03	+/-	2.1E-05
Phase delay (usec)	-4.30741100695E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.30741E-06	+/-	1.7E-09
Delay rate (us/s)	1.01323739601E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	1.01324E-10	+/-	9.8E-12
Total phase (deg)	-184.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-184.1	+/-	0.1

ph/seg (deg)	2.3	Theor.	0.5	Amplitude	299.798 +/- 0.138	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	70.8		0.8	Search (2048X8)	299.779	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7		0.0	Inc. seg. avg.	87.885	Sample rate(MISamp/s):	24	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	299.782	Data rate(Mb/s):	48	ion window (TEC)	0.00 0.00	
						nlags:	1536 t_cohere infinite			

p: az 84.0 el 73.9 pa -85.4 p: az 84.0 el 73.9 pa -85.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0016/pp..1T5GV4 Output file: /Exps/c211d/v1/LINES1/1234/No0016/pp.W.138.1T5GV4