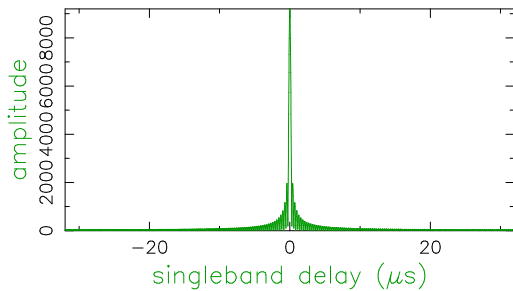
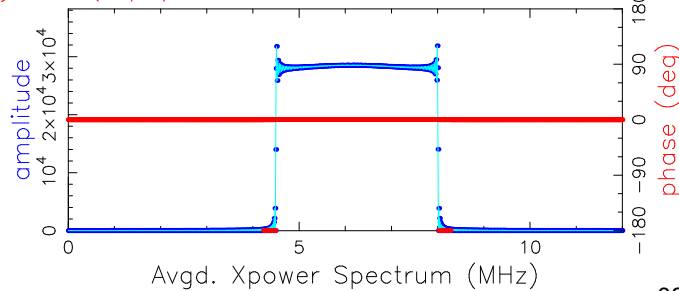


Fringe quality 5

SNR 66727.4
Int time 299.986
Amp 9202.383
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

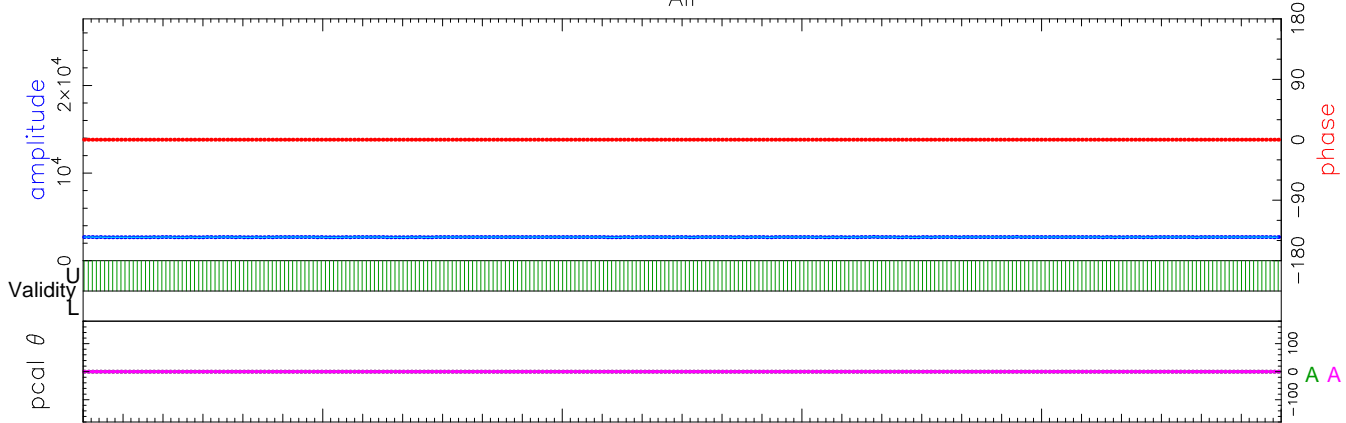


delay rate (ns/s)



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052003
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



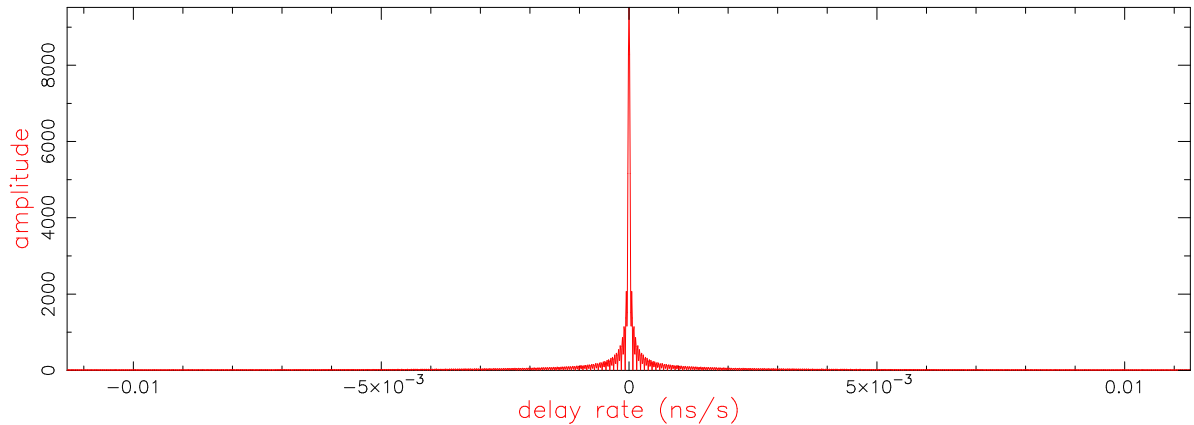
86227.00
0.2
2696.0
1537.0
U/L 586/0
A 0
A 0
A:A 0:0
A:A 0:0
A 1000
A 1000
A W03UX
A W03UX

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)	4.35645447482E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-7.24084E-06	+/-	6.9E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.9E-07
Phase delay (usec)	7.81748567838E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.81749E-09	+/-	5.5E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.2E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

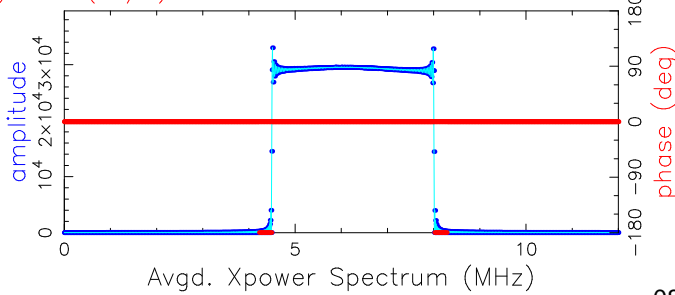
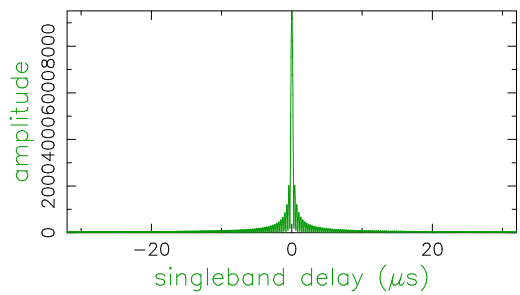
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	9202.383 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	70.7		0.0	Search (2048X8)	9202.383	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2696.010	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	9202.383	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

A: az 297.1 el 26.3 pa 123.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/AA..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/AA.W.1.1T5H1A



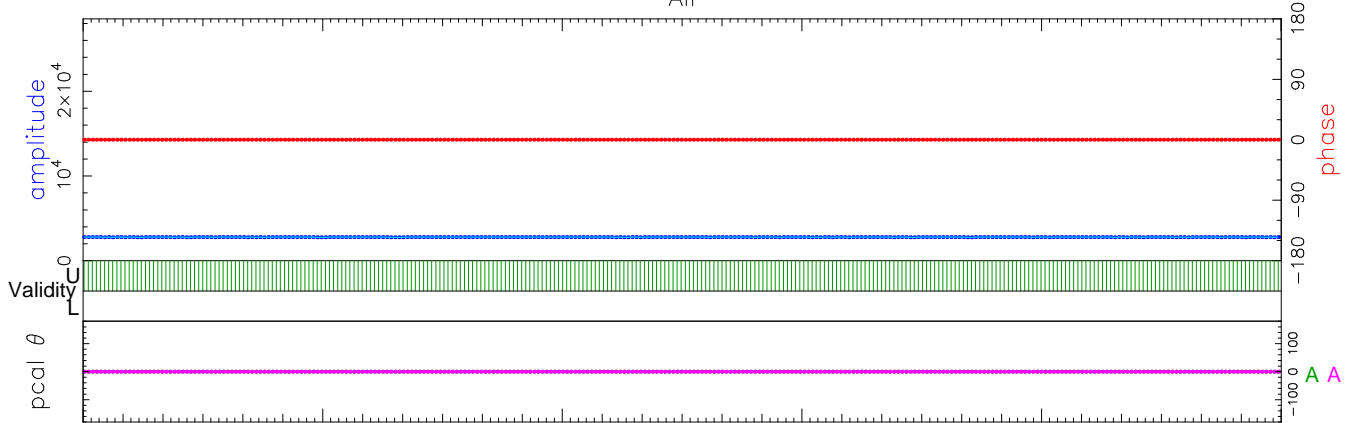
Fringe quality 5

SNR 69003.3
Int time 299.933
Amp 9517.094
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 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052004
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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
2788.2
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

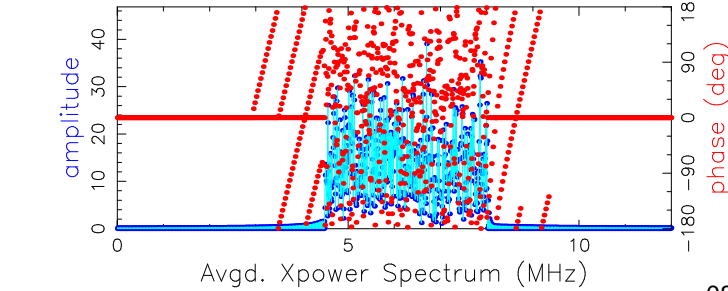
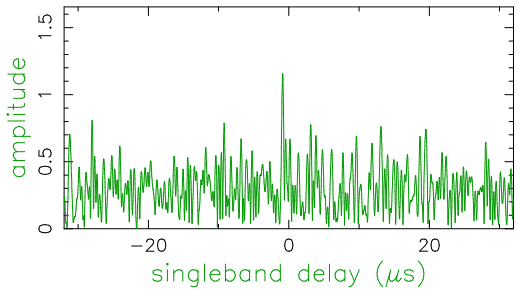
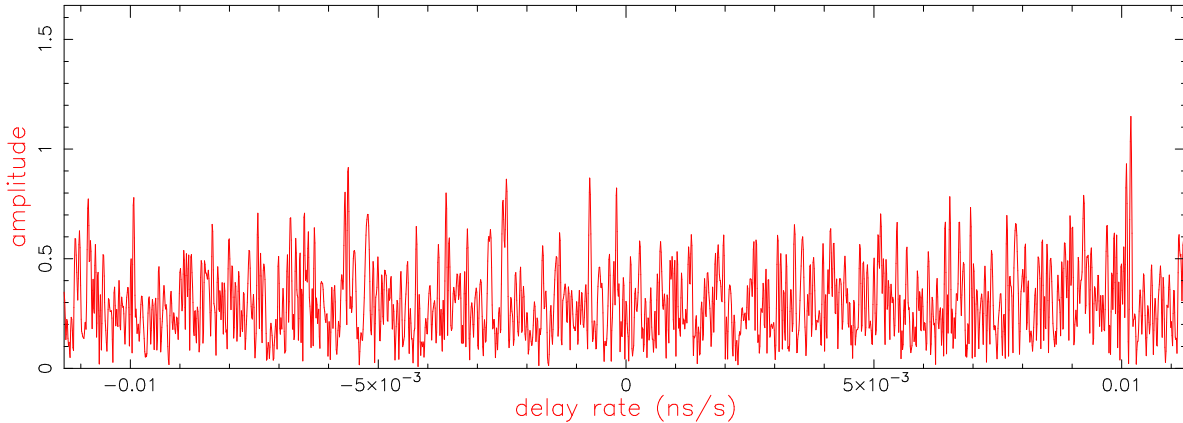
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	5.65948020922E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-5.93782E-06	+/- 6.7E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 6.7E-07
Phase delay (usec)	6.41068984255E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.41069E-09	+/- 5.4E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 3.1E-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	9517.094 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	0.000	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.	2788.211	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	9517.094	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

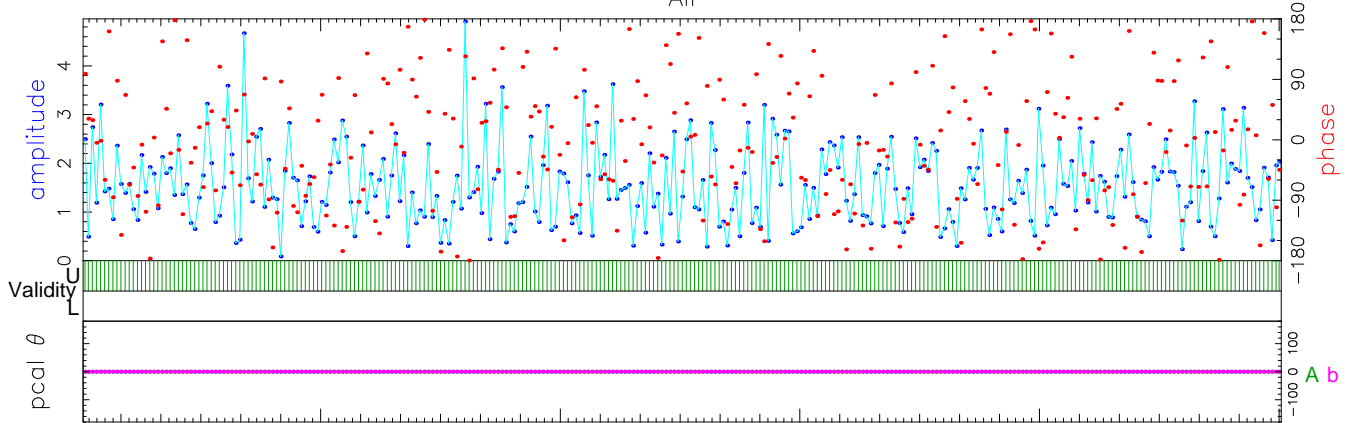
A: az 297.1 el 26.3 pa 123.2 A: az 297.1 el 26.3 pa 123.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/AA..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/AA.W.9.1T5H1A

Fringe quality 8



SNR 8.4
Int time 298.973
Amp 1.655
Phase 37.7
PFD 8.3e-10
Delays (us)
SBD -0.875000
MBD 0.000004
Fringe rate (Hz) 0.876723
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052003
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
-7.5
0.5
1495.0
U/L 585/0
A 0
b 0
A:b 0:0
A:b 0:0
A 1000
b 1000
A W03UX
b W03UL

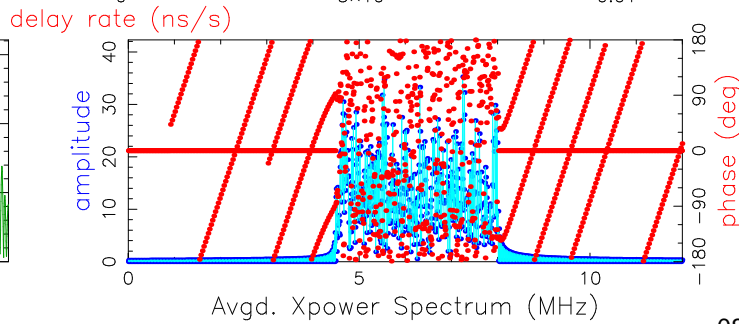
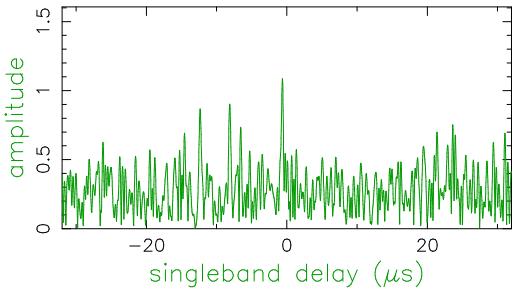
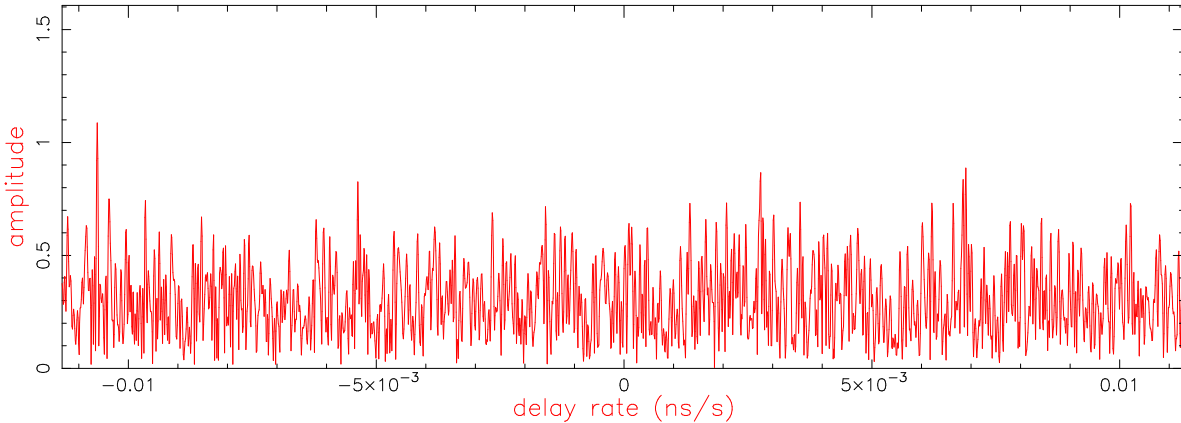
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.99006715820E+03	Apriori delay (usec)	-9.98919215821E+03	Resid mbdelay (usec)	4.35831E-06	+/-	5.5E-03
Sband delay (usec)	-9.99006715821E+03	Apriori clock (usec)	-2.1046162E+03	Resid sbdelay (usec)	-8.75000E-01	+/-	5.5E-03
Phase delay (usec)	-9.98919215845E+03	Apriori clockrate (us/s)	-1.1300001E-06	Resid phdelay (usec)	-2.40426E-07	+/-	4.4E-07
Delay rate (us/s)	-1.09067841201E+00	Apriori rate (us/s)	-1.09068858990E+00	Resid rate (us/s)	1.01779E-05	+/-	2.5E-09
Total phase (deg)	214.7	Apriori accel (us/s/s)	1.60840062480E-05	Resid phase (deg)	37.7	+/-	13.7

ph/seg (deg)	RMS 92.4	Theor. 116.9	Amplitude Search (2048X8)	1.655 +/- 0.197	1.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.8	204.1	Interp.	0.000	1.139	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.	0.718	1.139	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	71.0	11.9	Inc. frq. avg.	1.630	1.139	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

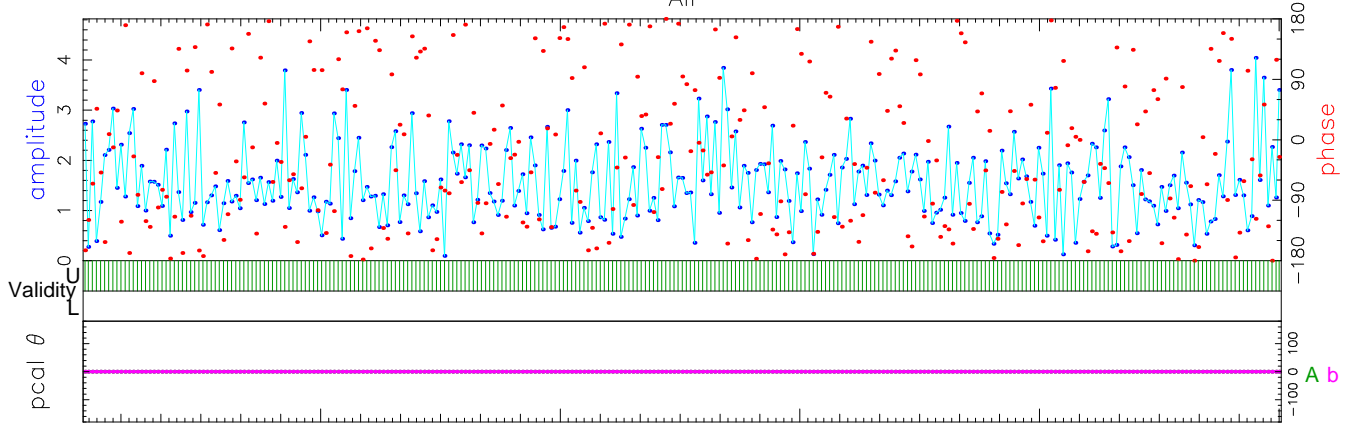
A: az 297.1 el 26.3 pa 123.2 b: az 184.4 el 53.5 pa 2.8 u,v (fr/asec) 6414.086 -9583.179 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/Ab..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/Ab.W.2.1T5H1A

Fringe quality 8



SNR 7.9
Int time 298.973
Amp 1.607
Phase 34.4
PFD 5.8e-08
Delays (us)
SBD -0.625569
MBD -0.000005
Fringe rate (Hz)
-0.914882
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052005
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
-118.4
0.5
1507.0
U/L 585/0
A 0
b 0
A:b 0:0
A:b 0:0
A 1000
b 1000
A W03UX
b W03UR

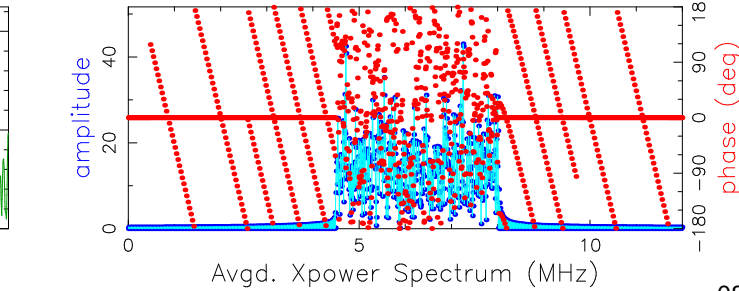
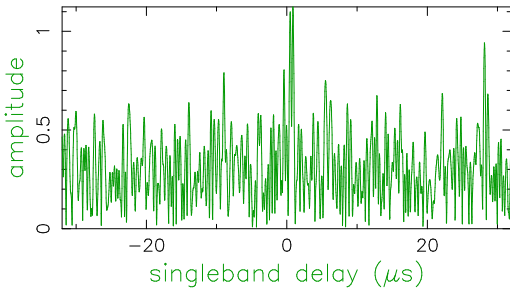
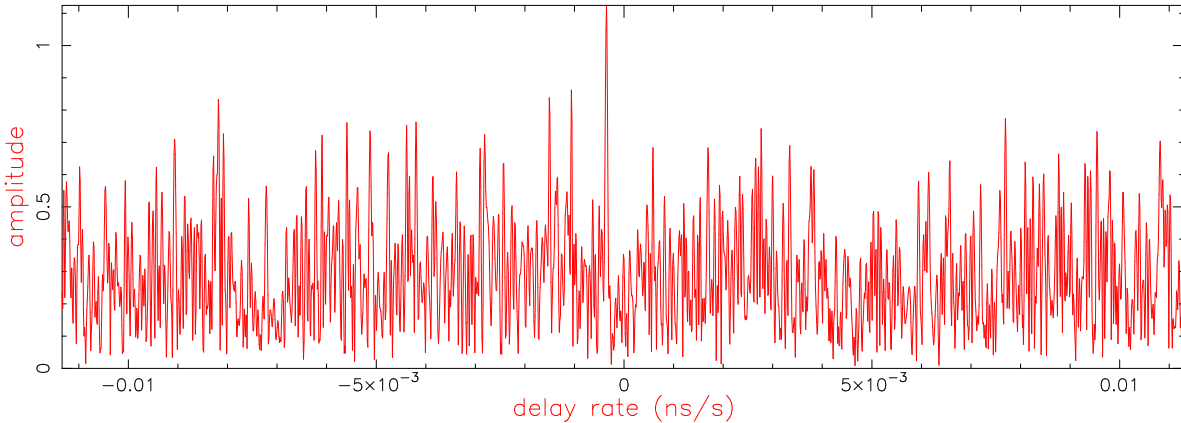
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.98981773281E+03	Apriori delay (usec)	-9.98919215821E+03	Resid mbdelay (usec)	-4.88441E-06	+/- 5.8E-03
Sband delay (usec)	-9.98981772755E+03	Apriori clock (usec)	-2.1046162E+03	Resid sbdelay (usec)	-6.25569E-01	+/- 5.8E-03
Phase delay (usec)	-9.98919216203E+03	Apriori clockrate (us/s)	-1.1300001E-06	Resid phdelay (usec)	-3.81880E-06	+/- 4.7E-07
Delay rate (us/s)	-1.09069921077E+00	Apriori rate (us/s)	-1.09068858990E+00	Resid rate (us/s)	-1.06209E-05	+/- 2.7E-09
Total phase (deg)	211.4	Apriori accel (us/s/s)	1.60840062480E-05	Resid phase (deg)	34.4	+/- 14.6

ph/seg (deg)	RMS 93.7	Theor. 124.7	Amplitude Search (2048X8)	1.065	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	84.5	217.6	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	7.3	Inc. seg. avg.	0.689	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.7	Inc. frq. avg.	1.594	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

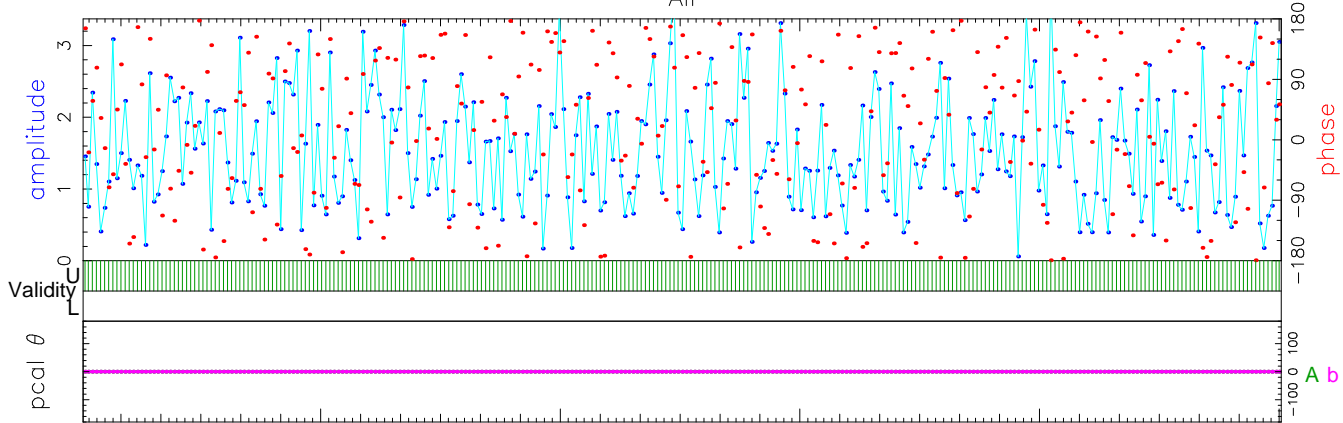
A: az 297.1 el 26.3 pa 123.2 b: az 184.4 el 53.5 pa 2.8 u,v (fr/asec) 6414.086 -9583.179 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/Ab..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/Ab.W.22.1T5H1A

Fringe quality 8



SNR 8.1
Int time 298.920
Amp 1.124
Phase -251.1
PFD 6.9e-09
Delays (us)
SBD 0.874115
MBD -0.000007
Fringe rate (Hz)
-0.030657
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052008
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
126.4
0.3
1579.0
U/L 585/0
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

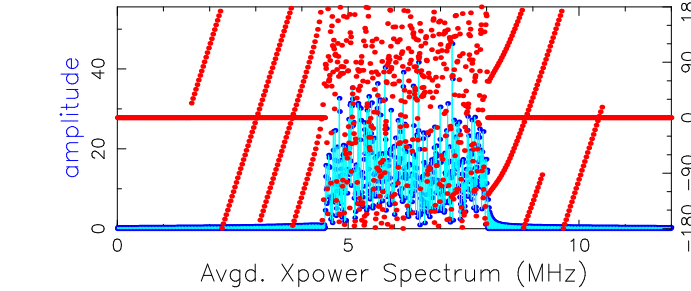
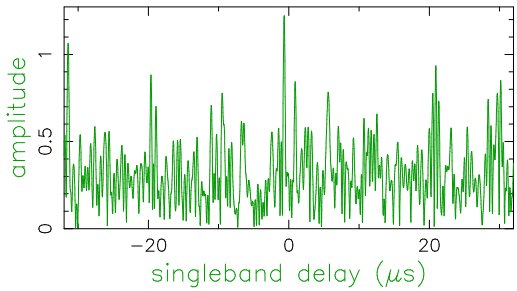
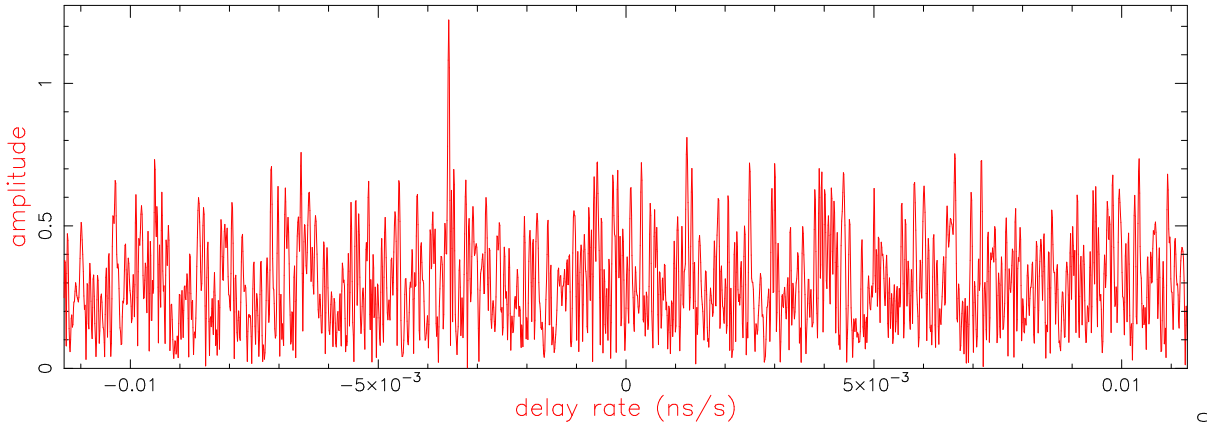
Group delay (usec)(sbd)	-9.98831804248E+03	Apriori delay (usec)	-9.98919215821E+03	Resid mbdelay (usec)	-7.21911E-06	+/- 5.6E-03
Sband delay (usec)	-9.98831804355E+03	Apriori clock (usec)	-2.1046162E+03	Resid sbdelay (usec)	8.74115E-01	+/- 5.6E-03
Phase delay (usec)	-9.98919215414E+03	Apriori clockrate (us/s)	-1.1300001E-06	Resid phdelay (usec)	4.07671E-06	+/- 4.5E-07
Delay rate (us/s)	-1.09068894580E+00	Apriori rate (us/s)	-1.09068858990E+00	Resid rate (us/s)	-3.55902E-07	+/- 2.6E-09
Total phase (deg)	-74.1	Apriori accel (us/s/s)	1.60840062480E-05	Resid phase (deg)	-251.1	+/- 14.1

ph/seg (deg)	RMS 95.3	Theor. 120.6	Amplitude Search (2048X8)	1.124 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.2	210.5	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	7.0	Inc. seg. avg.	0.478	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.3	Inc. frq. avg.	1.116	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
				A: az 297.1 el 26.3 pa 123.2	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				b: az 184.4 el 53.5 pa 2.8	nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00
				u,v (fr/asec) 6414.086 -9583.179	simultaneous interpolator	

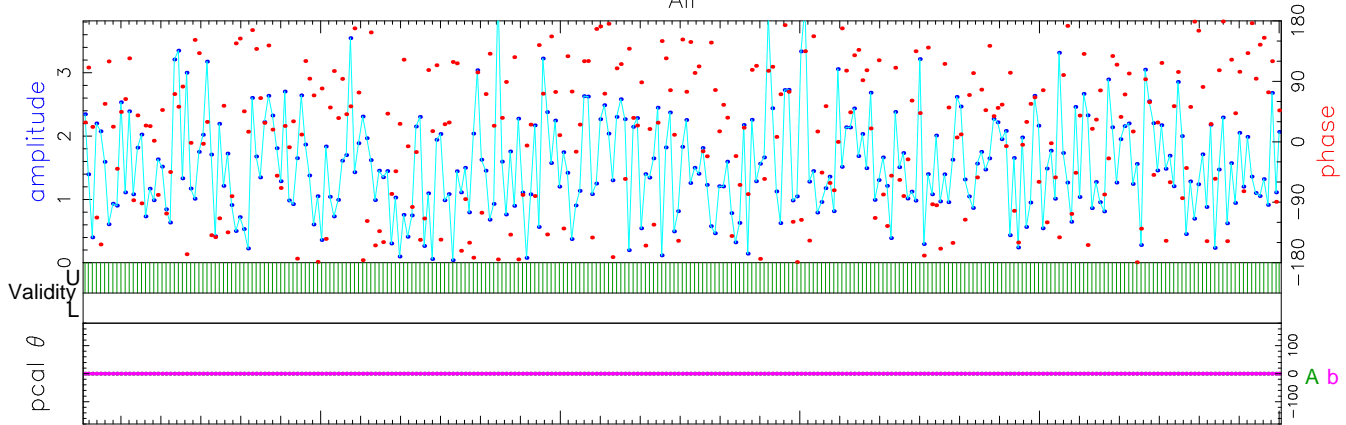
Fringe quality 8

SNR 8.8
Int time 298.920
Amp 1.273
Phase 111.7
PFD 1.6e-11
Delays (us)
SBD -0.667332
MBD -0.000007
Fringe rate (Hz)
-0.307836
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052004
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"



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



86227.00
91.3
0.4
1505.0
U/L 585/0
A 0
b 0
A:b 0:0
A:b 0:0
A 1000
b 1000
A W03UY
b W03UR

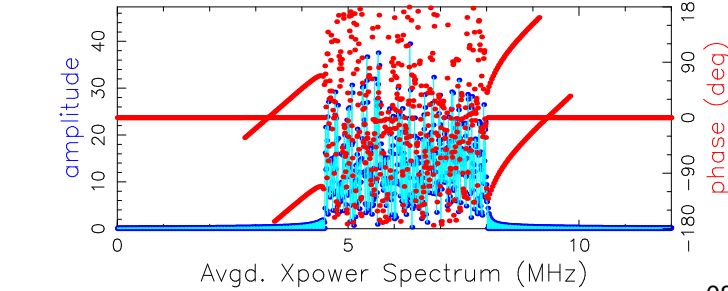
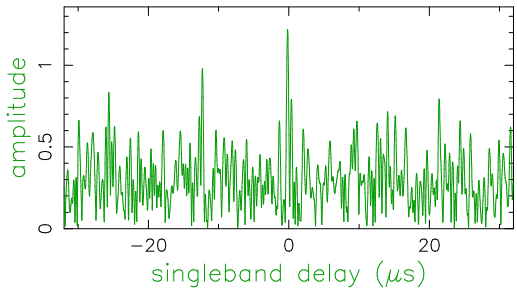
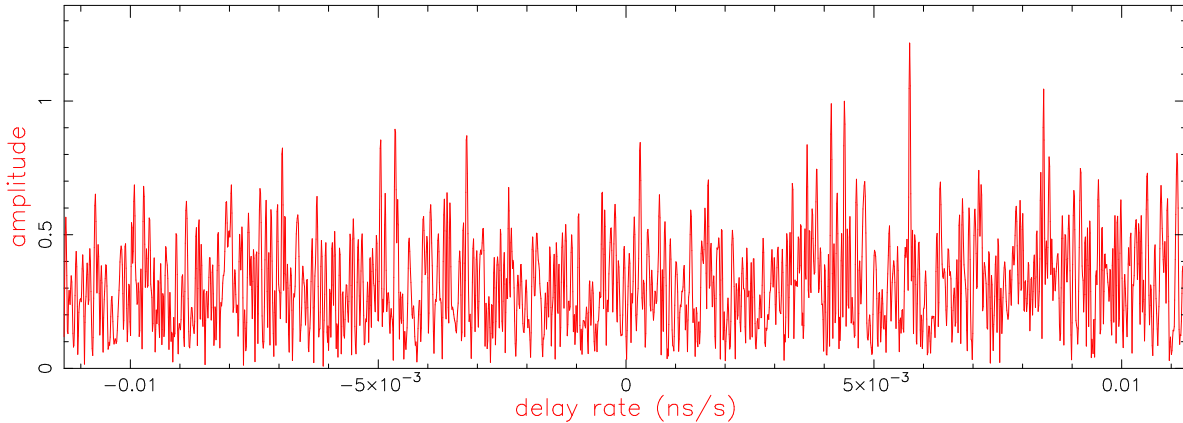
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.98985948485E+03	Apriori delay (usec)	-9.98919215821E+03	Resid mbdelay (usec)	-6.65740E-06	+/-	5.2E-03
Sband delay (usec)	-9.98985949021E+03	Apriori clock (usec)	-2.1046162E+03	Resid sbdelay (usec)	-6.67332E-01	+/-	5.2E-03
Phase delay (usec)	-9.98919215527E+03	Apriori clockrate (us/s)	-1.1300001E-06	Resid phdelay (usec)	2.94275E-06	+/-	4.2E-07
Delay rate (us/s)	-1.09069216357E+00	Apriori rate (us/s)	-1.09068858990E+00	Resid rate (us/s)	-3.57367E-06	+/-	2.4E-09
Total phase (deg)	288.7	Apriori accel (us/s/s)	1.60840062480E-05	Resid phase (deg)	111.7	+/-	13.0

ph/seg (deg)	RMS 92.4	Theor. 110.9	Amplitude Search (2048X8)	1.273 +/- 0.144	1.205	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	69.8	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.	0.558	Sample rate(MISamp/s): 24	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	11.3	Inc. frq. avg.	1.265	Data rate(Mb/s): 48	dr window (ns/s)	-0.011 0.011
				u,v (fr/asec) 6414.086 -9583.179		ion window (TEC)	0.00 0.00

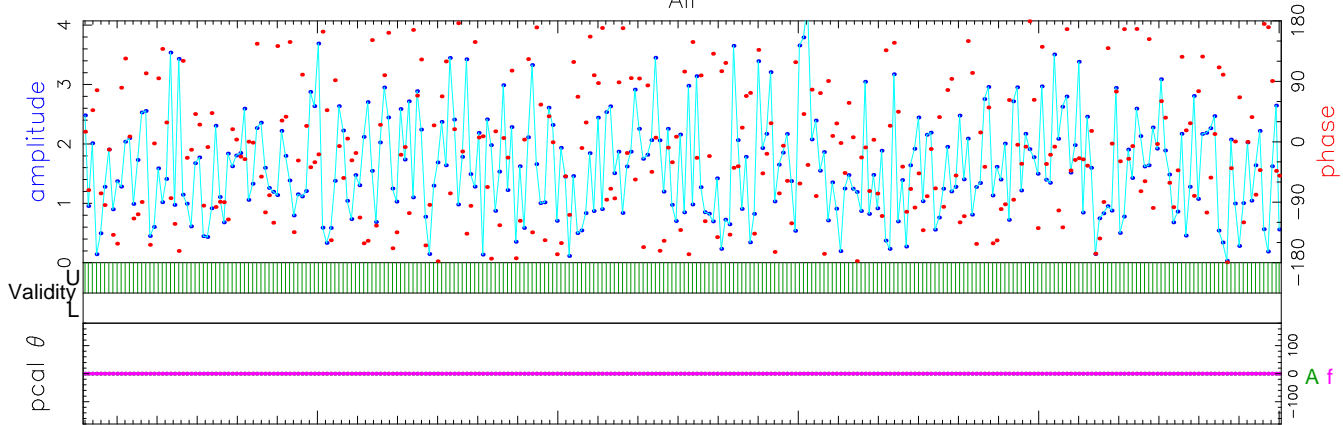
A: az 297.1 el 26.3 pa 123.2 b: az 184.4 el 53.5 pa 2.8 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/Ab..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/Ab.W.7.1T5H1A

Fringe quality 8



SNR 8.8
Int time 297.907
Amp 1.358
Phase 56.7
PFD 2.1e-11
Delays (us)
SBD -0.175361
MBD 0.000005
Fringe rate (Hz)
0.492818
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052005
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-35.6
0.4
1528.6
U/L 583/0
A 0
f 0
A:f 0:0
A:f 0:0
A 1000
f 1000
A W03UY
f W03UR

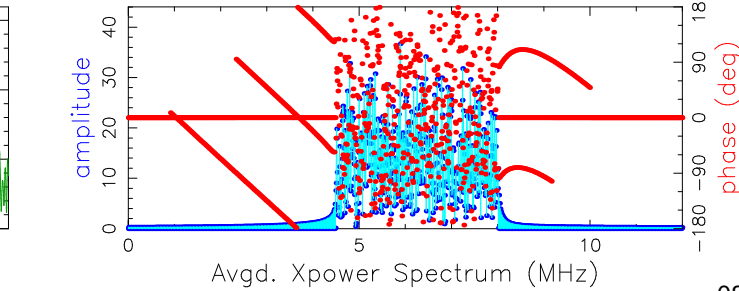
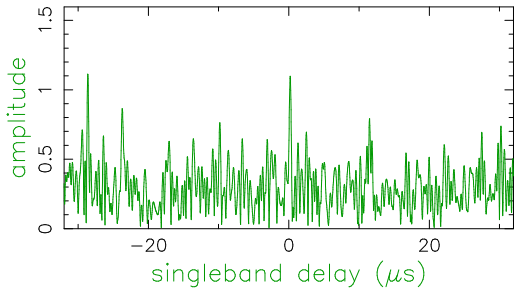
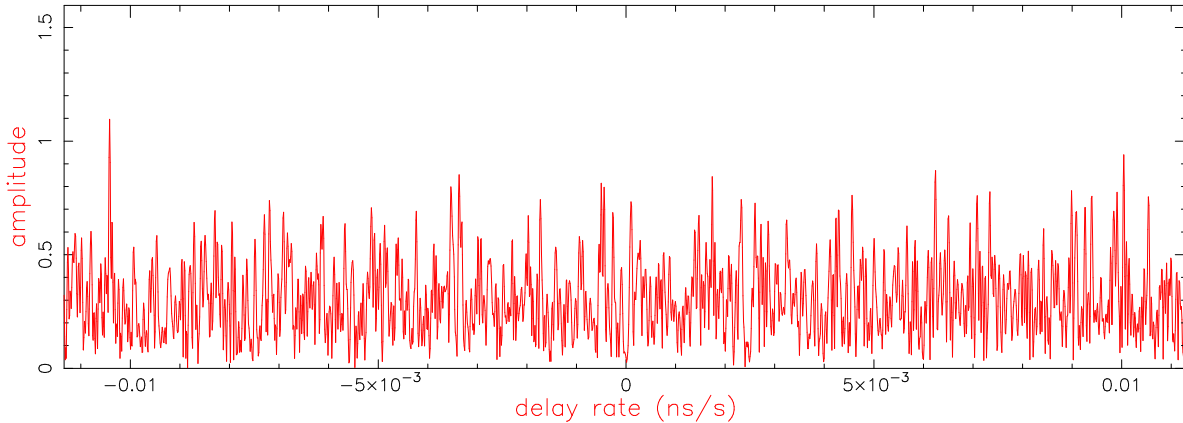
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.20292822849E+04	Apriori delay (usec)	-1.20291069273E+04	Resid mbdelay (usec)	5.11580E-06	+/-	5.2E-03
Sband delay (usec)	-1.20292822887E+04	Apriori clock (usec)	-2.1178689E+03	Resid sbdelay (usec)	-1.75361E-01	+/-	5.2E-03
Phase delay (usec)	-1.20291069285E+04	Apriori clockrate (us/s)	-1.3800001E-06	Resid phdelay (usec)	-1.14959E-06	+/-	4.2E-07
Delay rate (us/s)	-7.21266884650E-01	Apriori rate (us/s)	-7.21272605778E-01	Resid rate (us/s)	5.72113E-06	+/-	2.4E-09
Total phase (deg)	157.1	Apriori accel (us/s/s)	3.22197391082E-05	Resid phase (deg)	56.7	+/-	13.0

ph/seg (deg)	RMS 93.6	Theor. 111.1	Amplitude Search (2048X8)	1.358 +/- 0.154	1.204	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.9	193.9	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	6.5	Inc. seg. avg.	0.627	Sample rate(MISamp/s): 24		mb window (us) -0.000 0.000
amp/frq (%)	70.8	11.3	Inc. frq. avg.	1.346	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

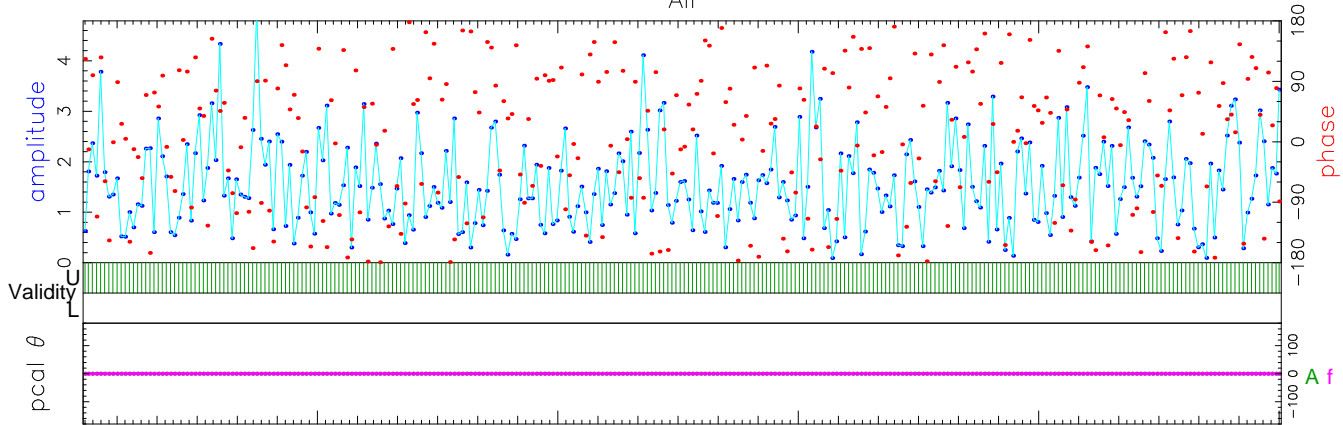
A: az 297.1 el 26.3 pa 123.2 f: az 225.9 el 64.5 pa 39.7 u,v (fr/asec) 4269.675 -7279.048 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/Af..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/Af.W.20.1T5H1A

Fringe quality 8



SNR 7.9
Int time 297.960
Amp 1.597
Phase -336.5
PFD 3.3e-08
Delays (us)
SBD 0.197253
MBD -0.000005
Fringe rate (Hz)
-0.896207
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052003
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
81.6
0.5
163.3
U/L 583/0
A 0
f 0
A:f 0:0
A:f 0:0
A 1000
f 1000
A W03UX
f W03UL

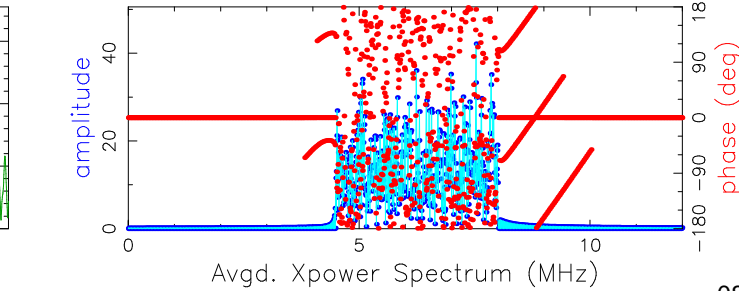
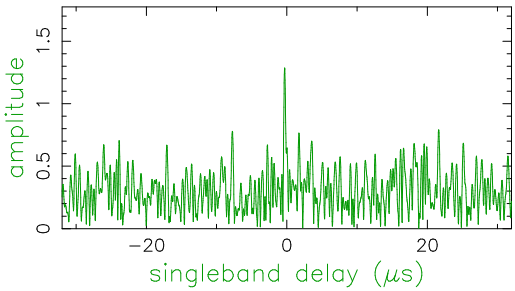
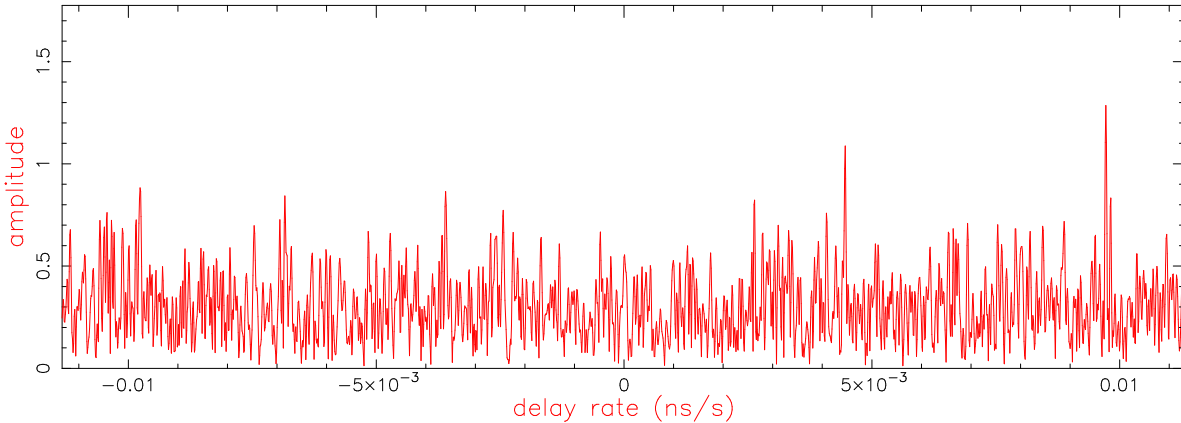
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.20289096737E+04	Apriori delay (usec)	-1.20291069273E+04	Resid mbdelay (usec)	-4.77001E-06	+/-	5.8E-03
Sband delay (usec)	-1.20289096740E+04	Apriori clock (usec)	-2.1178689E+03	Resid sbdelay (usec)	1.97253E-01	+/-	5.8E-03
Phase delay (usec)	-1.20291069247E+04	Apriori clockrate (us/s)	-1.3800001E-06	Resid phdelay (usec)	2.63171E-06	+/-	4.7E-07
Delay rate (us/s)	-7.21283009855E-01	Apriori rate (us/s)	-7.21272605778E-01	Resid rate (us/s)	-1.04041E-05	+/-	2.7E-09
Total phase (deg)	-236.2	Apriori accel (us/s/s)	3.22197391082E-05	Resid phase (deg)	-336.5	+/-	14.4

ph/seg (deg)	RMS 94.0	Theor. 123.3	Amplitude Search (2048X8)	1.597 +/- 0.201	1.078	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	88.9	215.2	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	7.2	Inc. seg. avg.	0.682	Sample rate(MISamp/s): 24	mb window (us)	-0.000 0.000
amp/frq (%)	70.8	12.6	Inc. frq. avg.	1.581	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

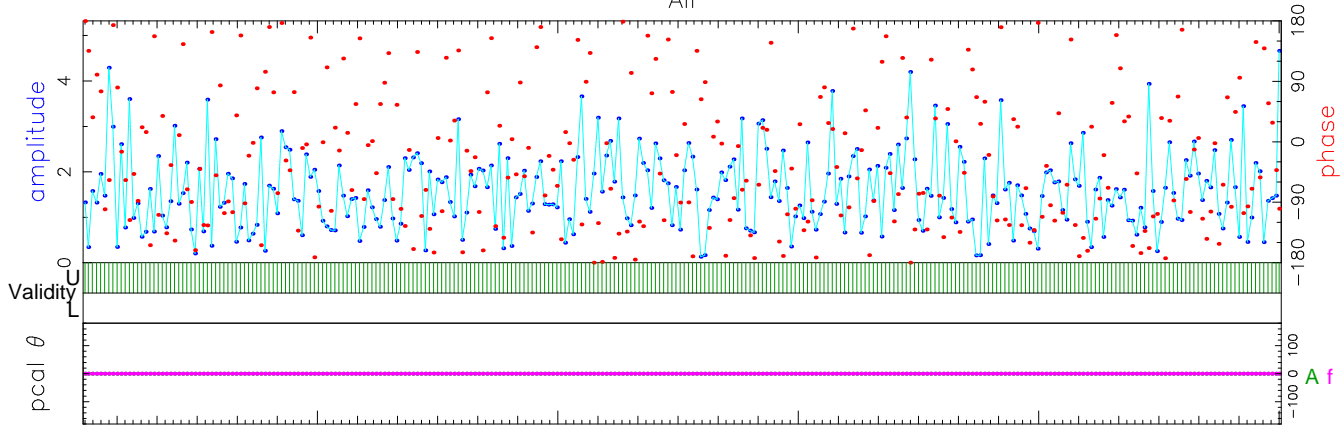
A: az 297.1 el 26.3 pa 123.2 f: az 225.9 el 64.5 pa 39.7 u,v (fr/asec) 4269.675 -7279.048 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/Af..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/Af.W.3.1T5H1A

Fringe quality 8



SNR 9.3
Int time 297.960
Amp 1.775
Phase 253.4
PFD 2.9e-13
Delays (us)
SBD -0.310093
MBD 0.000006
Fringe rate (Hz)
0.836868
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052007
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-98.9
0.5
1522.1
U/L 583/0
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
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.20294170213E+04	Apriori delay (usec)	-1.20291069273E+04	Resid mbdelay (usec)	6.13237E-06	+/-	4.9E-03
Sband delay (usec)	-1.20294170207E+04	Apriori clock (usec)	-2.1178689E+03	Resid sbdelay (usec)	-3.10093E-01	+/-	4.9E-03
Phase delay (usec)	-1.20291069305E+04	Apriori clockrate (us/s)	-1.3800001E-06	Resid phdelay (usec)	-3.18891E-06	+/-	4.0E-07
Delay rate (us/s)	-7.21262890573E-01	Apriori rate (us/s)	-7.21272605778E-01	Resid rate (us/s)	9.71520E-06	+/-	2.3E-09
Total phase (deg)	353.8	Apriori accel (us/s/s)	3.22197391082E-05	Resid phase (deg)	253.4	+/-	12.3

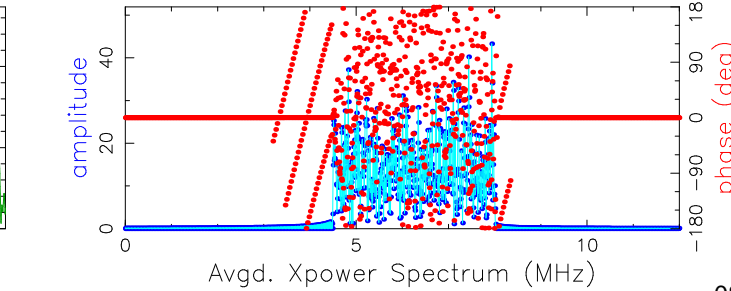
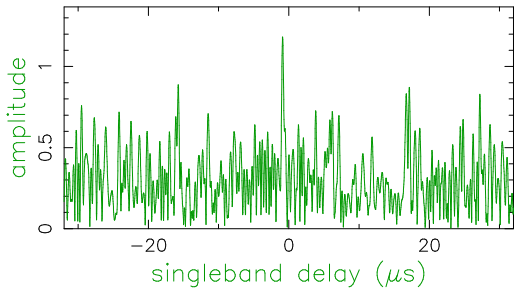
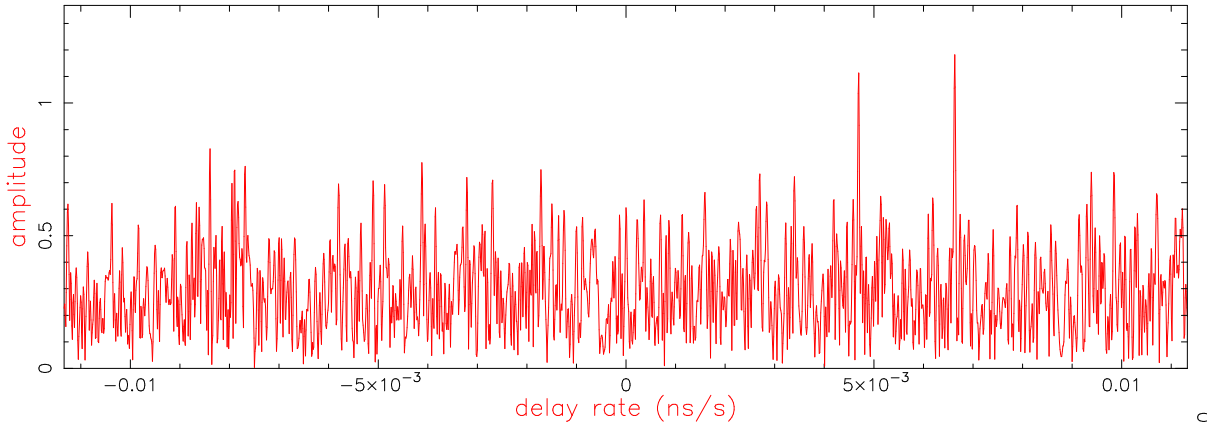
ph/seg (deg)	RMS 92.1	Theor. 105.4	Amplitude Search (2048X8)	1.775 +/- 0.191	1.231	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	68.8	184.0	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	6.2	Inc. seg. avg.	0.811	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	10.8	Inc. frq. avg.	1.764	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 297.1 el 26.3 pa 123.2 f: az 225.9 el 64.5 pa 39.7 u,v (fr/asec) 4269.675 -7279.048 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/Af..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/Af.W.38.1T5H1A

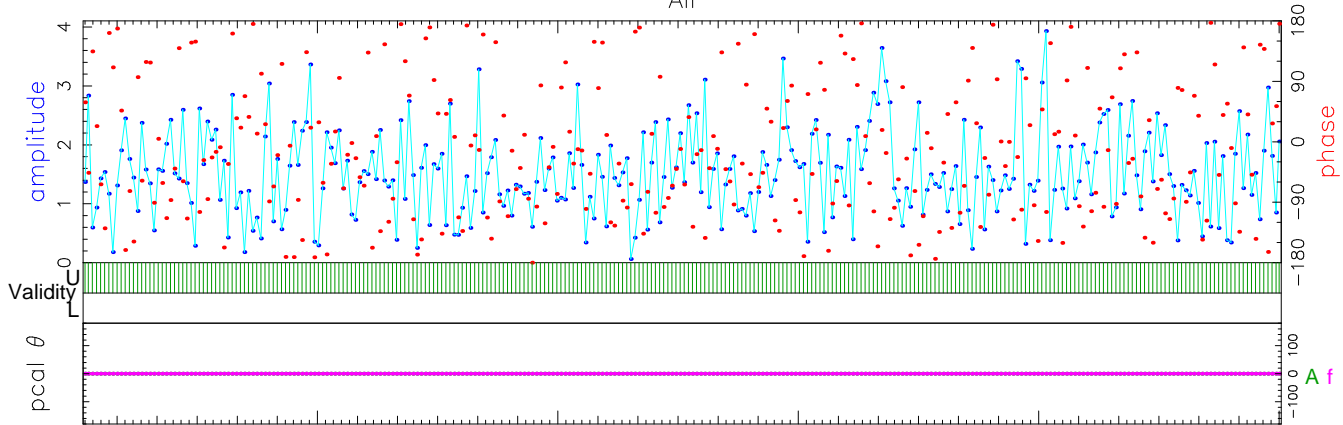
Fringe quality 8

SNR 8.6
Int time 297.907
Amp 1.368
Phase 271.1
PFD 2.0e-10
Delays (us)
SBD -0.884295
MBD 0.000007
Fringe rate (Hz)
0.570643
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052009
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"



Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-65.4
0.4
1494.6
U/L 583/0
A 0
f 0
A:f 0:0
A:f 0:0
A 1000
f 1000
A W03UY
f W03UL

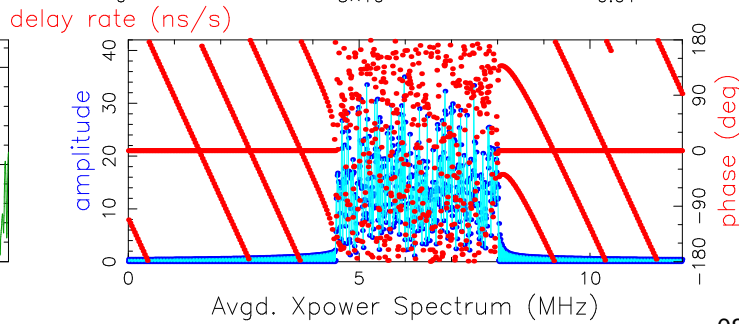
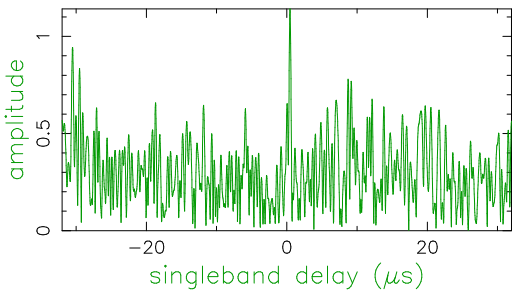
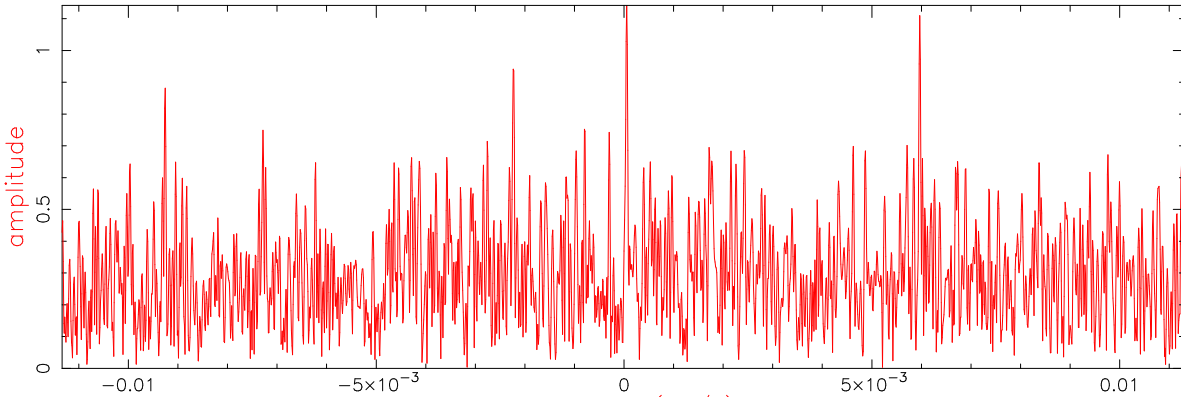
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.20299912261E+04	Apriori delay (usec)	-1.20291069273E+04	Resid mbdelay (usec)	6.62966E-06	+/-	5.4E-03
Sband delay (usec)	-1.20299912220E+04	Apriori clock (usec)	-2.1178689E+03	Resid sbdelay (usec)	-8.84295E-01	+/-	5.4E-03
Phase delay (usec)	-1.20291069294E+04	Apriori clockrate (us/s)	-1.3800001E-06	Resid phdelay (usec)	-2.10768E-06	+/-	4.3E-07
Delay rate (us/s)	-7.21265981173E-01	Apriori rate (us/s)	-7.21272605778E-01	Resid rate (us/s)	6.62460E-06	+/-	2.5E-09
Total phase (deg)	11.5	Apriori accel (us/s/s)	3.22197391082E-05	Resid phase (deg)	271.1	+/-	13.4

ph/seg (deg)	RMS 93.3	Theor. 114.4	Amplitude Search (2048X8)	1.368 +/- 0.160	1.155	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	68.8	199.7	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	6.7	Inc. seg. avg.	0.589	Sample rate(MISamp/s): 24			dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	11.7	Inc. frq. avg.	1.357	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite		ion window (TEC)	0.00	0.00

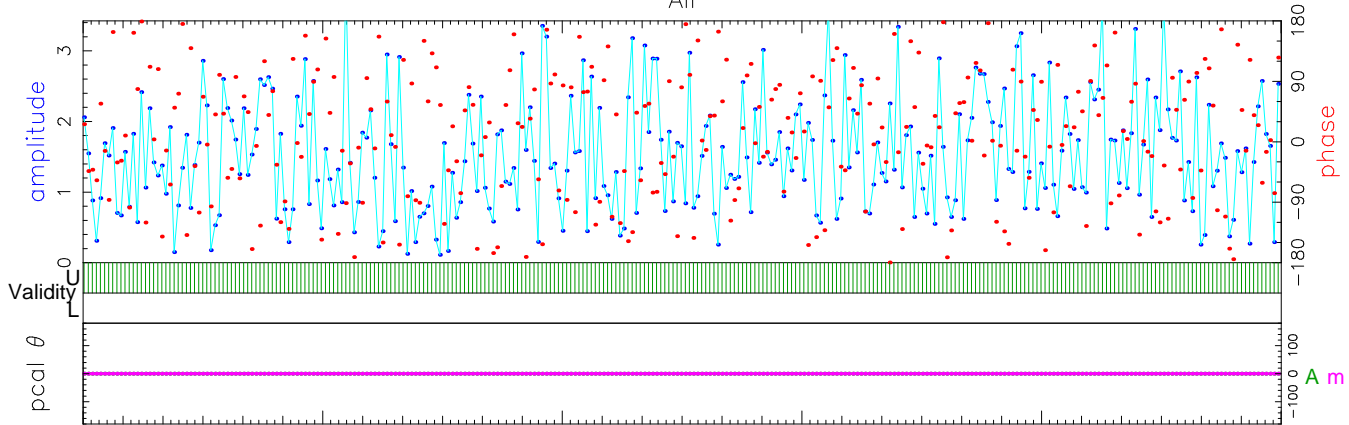
A: az 297.1 el 26.3 pa 123.2 f: az 225.9 el 64.5 pa 39.7 u,v (fr/asec) 4269.675 -7279.048 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/Af..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/Af.W.55.1T5H1A

Fringe quality 8



SNR 8.3
Int time 299.923
Amp 1.142
Phase -113.4
PFD 2.1e-09
Delays (us)
SBD 0.453156
MBD 0.000001
Fringe rate (Hz)
0.004579
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052005
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
39.3
0.3
1558.8
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)	-1.09637319253E+04	Apriori delay (usec)	-1.09641850792E+04	Resid mbdelay (usec)	1.18872E-06	+/-	5.5E-03
Sband delay (usec)	-1.09637319232E+04	Apriori clock (usec)	-2.1233242E+03	Resid sbdelay (usec)	4.53156E-01	+/-	5.5E-03
Phase delay (usec)	-1.09641850779E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	1.26847E-06	+/-	4.5E-07
Delay rate (us/s)	-1.91658775903E+00	Apriori rate (us/s)	-1.91658781219E+00	Resid rate (us/s)	5.31631E-08	+/-	2.6E-09
Total phase (deg)	-13.6	Apriori accel (us/s/s)	3.04125849487E-05	Resid phase (deg)	-113.4	+/-	13.8

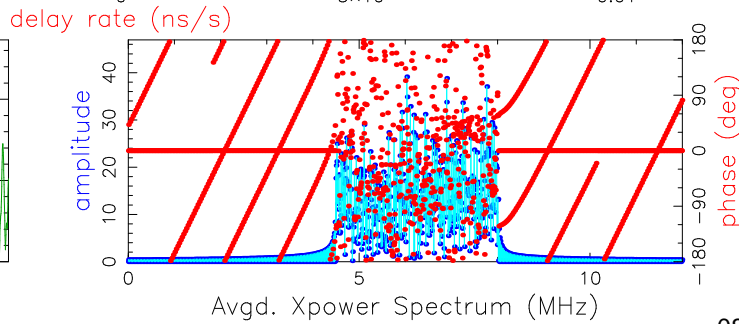
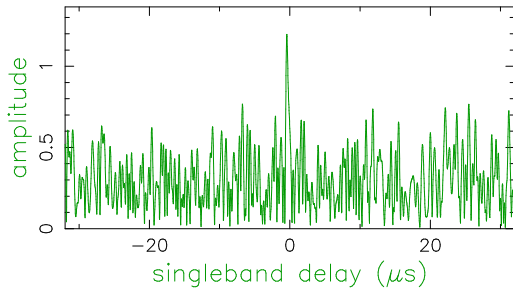
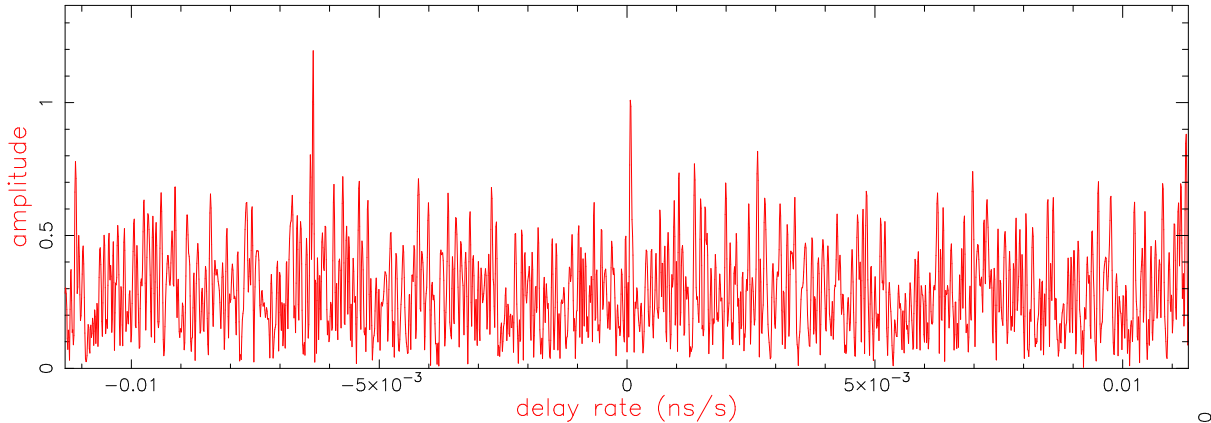
ph/seg (deg)	RMS 93.7	Theor. 118.5	Amplitude Search (2048X8)	1.142 +/- 0.136	1.136	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	78.7	206.7	Interp.	0.000	1.136	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.489	1.136	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.1	Inc. frq. avg.	1.133	1.133	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 297.1 el 26.3 pa 123.2 m: az 99.3 el 57.2 pa -71.6 u,v (fr/asec) 11254.660 -5839.362 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/Am..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/Am.W.21.1T5H1A

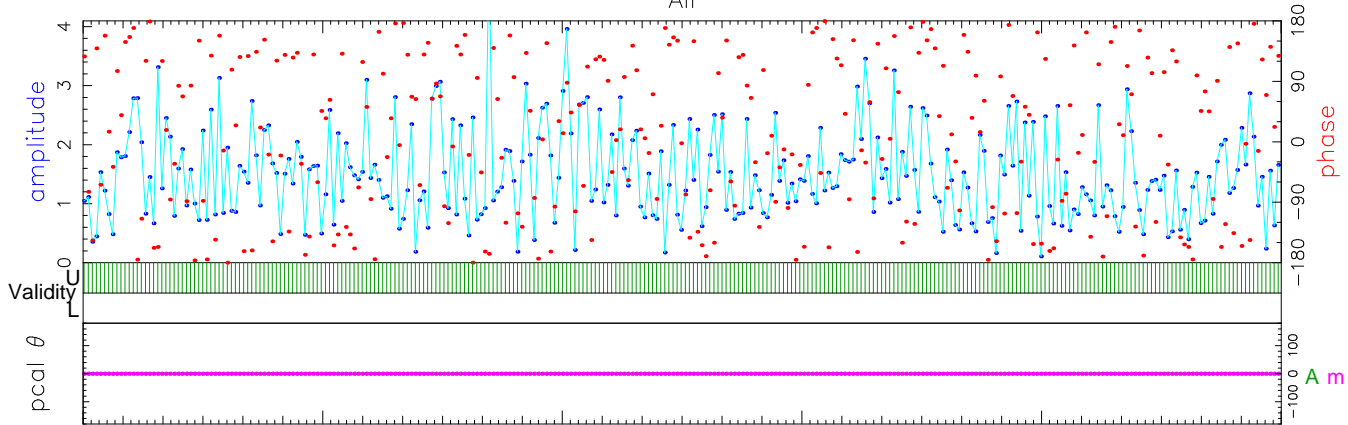
Fringe quality 8

SNR 8.7
Int time 299.976
Amp 1.366
Phase 174.0
PFD 6.7e-11
Delays (us)
SBD -0.426209
MBD -0.000007
Fringe rate (Hz)
-0.545043
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052006
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"



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



86227.00
145.3
0.4
1516.5
U/L 586/0
A 0
m 0
A:m 0:0
A:m 0:0
A 1000
m 1000
A W03UX
m W03UR

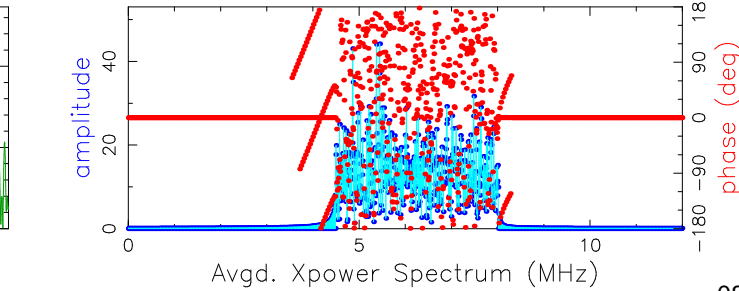
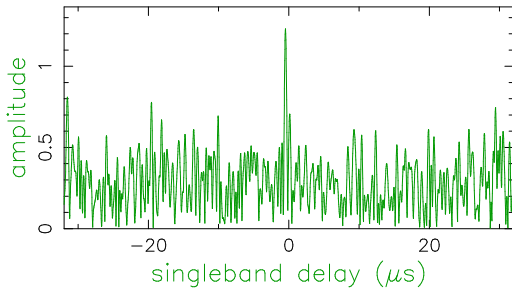
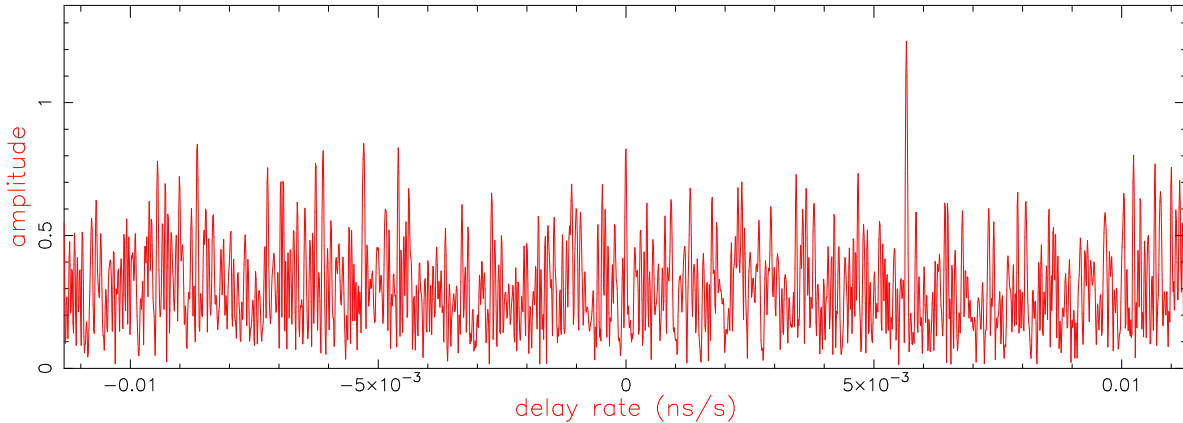
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.09646112866E+04	Apriori delay (usec)	-1.09641850792E+04	Resid mbdelay (usec)	-6.80873E-06	+/-	5.3E-03
Sband delay (usec)	-1.09646112885E+04	Apriori clock (usec)	-2.1233242E+03	Resid sbdelay (usec)	-4.26209E-01	+/-	5.3E-03
Phase delay (usec)	-1.09641850745E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	4.68709E-06	+/-	4.3E-07
Delay rate (us/s)	-1.91659413960E+00	Apriori rate (us/s)	-1.91658781219E+00	Resid rate (us/s)	-6.32740E-06	+/-	2.5E-09
Total phase (deg)	273.8	Apriori accel (us/s/s)	3.04125849487E-05	Resid phase (deg)	174.0	+/-	13.2

ph/seg (deg)	RMS 92.4	Theor. 112.9	Amplitude 1.366 +/- 0.157	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	69.5	197.1	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	6.6	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	11.5	Inc. seg. avg. 0.583	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
			Inc. frq. avg. 1.354	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 297.1 el 26.3 pa 123.2 m: az 99.3 el 57.2 pa -71.6 u,v (fr/asec) 11254.660 -5839.362 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/Am..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/Am.W.27.1T5H1A

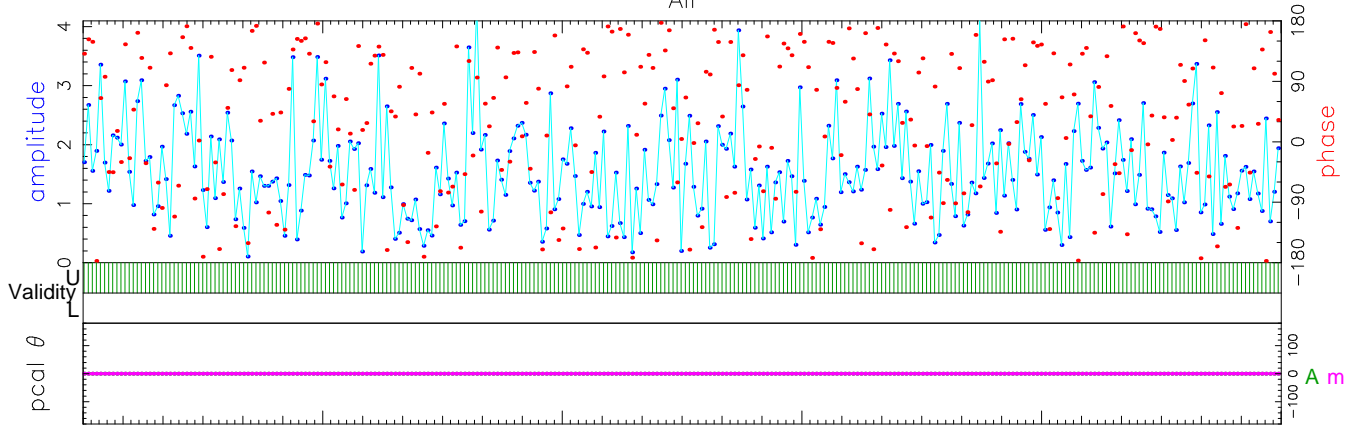
Fringe quality 8



SNR 8.9
Int time 299.923
Amp 1.366
Phase 349.6
PFD 8.3e-12
Delays (us)
SBD -0.478537
MBD 0.000005
Fringe rate (Hz)
0.486927
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052007
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
121.7
0.4
1514.0
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)	-1.09646636136E+04	Apriori delay (usec)	-1.09641850792E+04	Resid mbdelay (usec)	4.81028E-06	+/-	5.1E-03
Sband delay (usec)	-1.09646636165E+04	Apriori clock (usec)	-2.1233242E+03	Resid sbdelay (usec)	-4.78537E-01	+/-	5.1E-03
Phase delay (usec)	-1.09641850753E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	3.92461E-06	+/-	4.1E-07
Delay rate (us/s)	-1.91658215945E+00	Apriori rate (us/s)	-1.91658781219E+00	Resid rate (us/s)	5.65274E-06	+/-	2.4E-09
Total phase (deg)	89.4	Apriori accel (us/s/s)	3.04125849487E-05	Resid phase (deg)	349.6	+/-	12.8

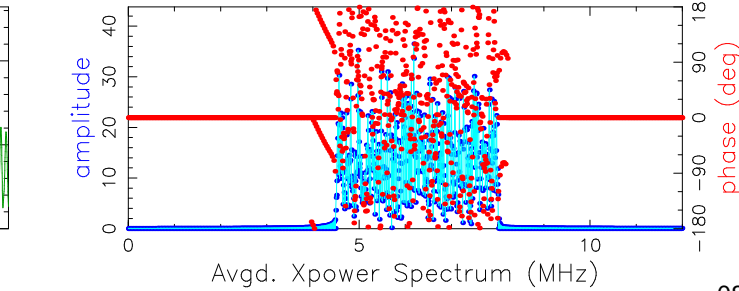
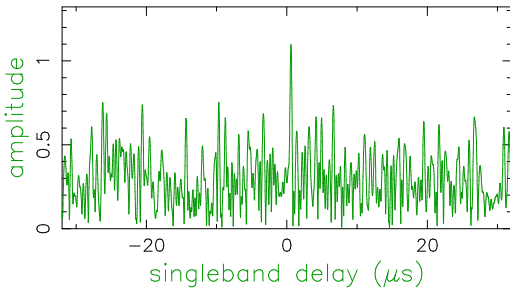
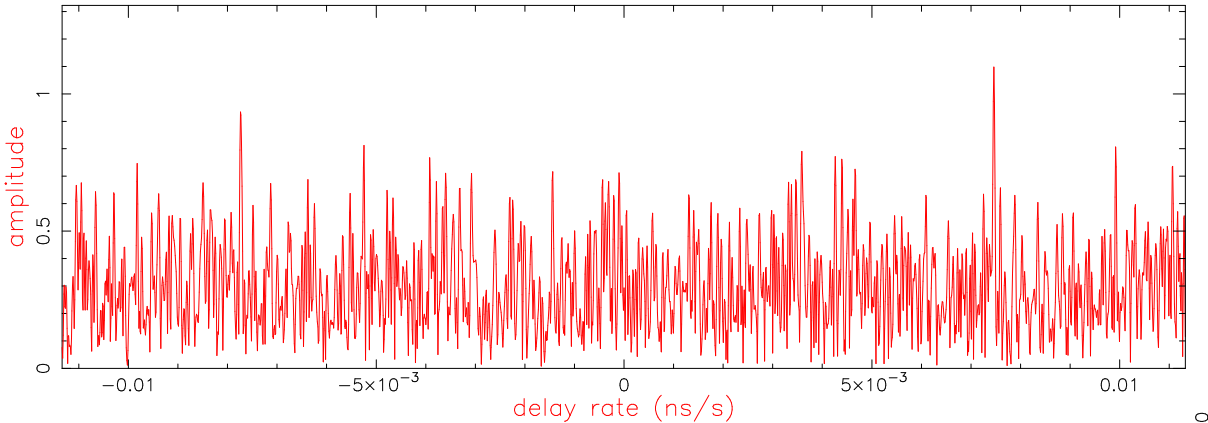
ph/seg (deg)	RMS 92.1	Theor. 109.9	Amplitude Search (2048X8)	1.366 +/- 0.153	1.205	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	71.2	191.9	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.4	Inc. seg. avg.	0.607	0.607	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.2	Inc. frq. avg.	1.357	1.357	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 297.1 el 26.3 pa 123.2 m: az 99.3 el 57.2 pa -71.6 u,v (fr/asec) 11254.660 -5839.362 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/Am..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/Am.W.39.1T5H1A

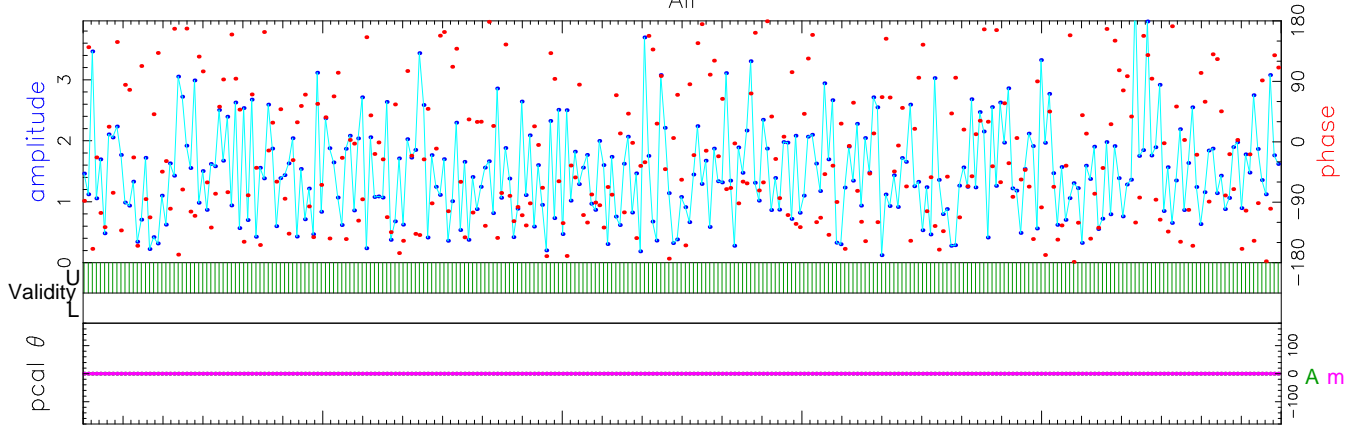
Fringe quality 8

SNR 8.0
Int time 299.976
Amp 1.322
Phase -313.3
PFD 2.5e-08
Delays (us)
SBD 0.593244
MBD 0.000007
Fringe rate (Hz)
0.641946
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052004
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"



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



86227.00
-93.2
0.4
1565.5
U/L 586/0
A 0
m 0
A:m 0:0
A:m 0:0
A 1000
m 1000
A W03UX
m W03UL

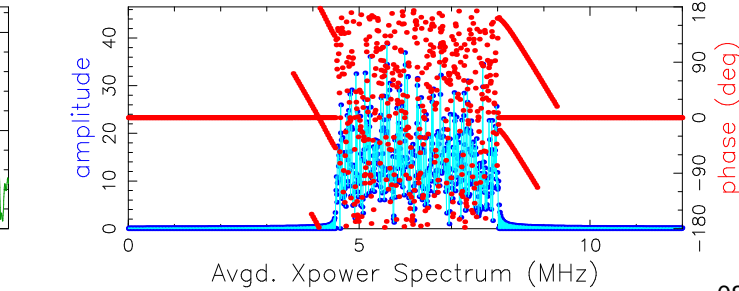
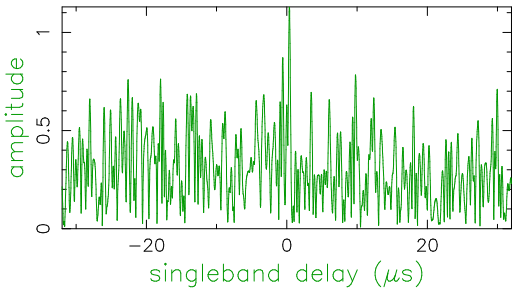
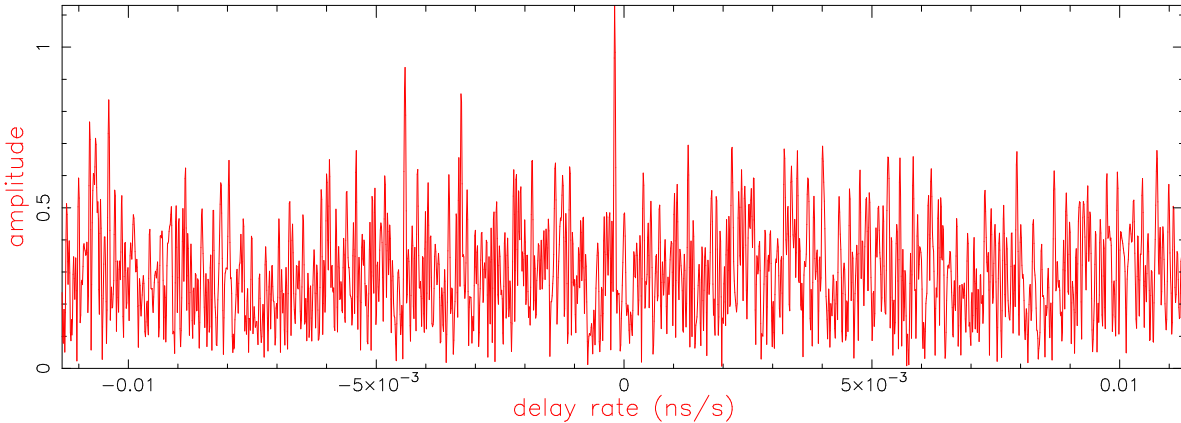
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.09635918358E+04	Apriori delay (usec)	-1.09641850792E+04	Resid mbdelay (usec)	6.93045E-06	+/-	5.8E-03
Sband delay (usec)	-1.09635918352E+04	Apriori clock (usec)	-2.1233242E+03	Resid sbdelay (usec)	5.93244E-01	+/-	5.8E-03
Phase delay (usec)	-1.09641850822E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-3.00391E-06	+/-	4.6E-07
Delay rate (us/s)	-1.91658035984E+00	Apriori rate (us/s)	-1.91658781219E+00	Resid rate (us/s)	7.45236E-06	+/-	2.7E-09
Total phase (deg)	-213.5	Apriori accel (us/s/s)	3.04125849487E-05	Resid phase (deg)	-313.3	+/-	14.4

ph/seg (deg)	RMS 94.4	Theor. 123.0	Amplitude Search (2048X8)	1.322 +/- 0.166	1.088	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 (%)	80.2	214.7	Interp.	0.000	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000	0.000	
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.545	0.545	Sample rate(MSamp/s): 24		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	70.8	12.5	Inc. frq. avg.	1.310	1.310	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00	

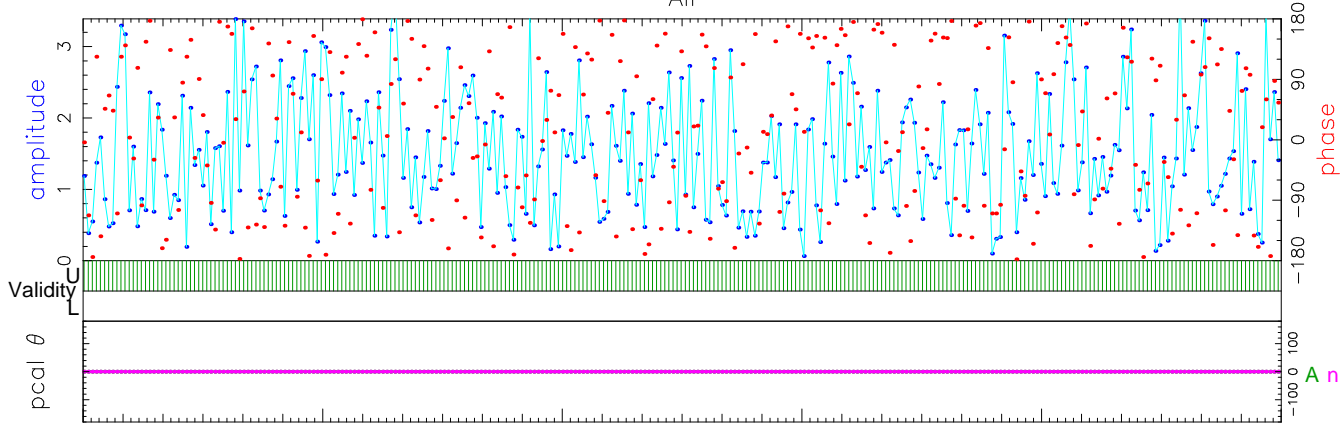
A: az 297.1 el 26.3 pa 123.2 m: az 99.3 el 57.2 pa -71.6 u,v (fr/asec) 11254.660 -5839.362 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/Am..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/Am.W.6.1T5H1A

Fringe quality 8



SNR 8.2
Int time 299.924
Amp 1.130
Phase -145.2
PFD 4.3e-09
Delays (us)
SBD 0.366073
MBD -0.000007
Fringe rate (Hz)
-0.016268
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052006
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
160.4
0.3
1554.6
U/L 586/0
A 0
n 0
A:n 0:0
A:n 0:0
A 1000
n 1000
A W03UY
n W03UR

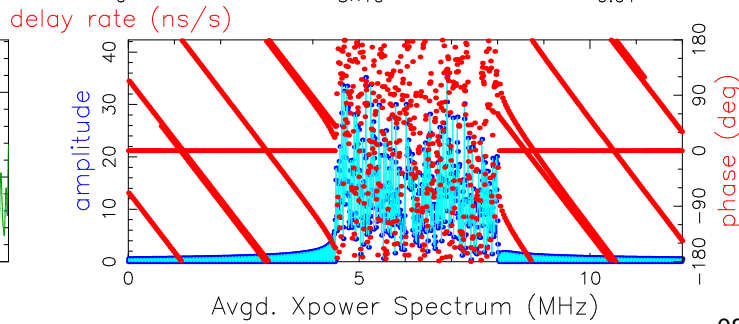
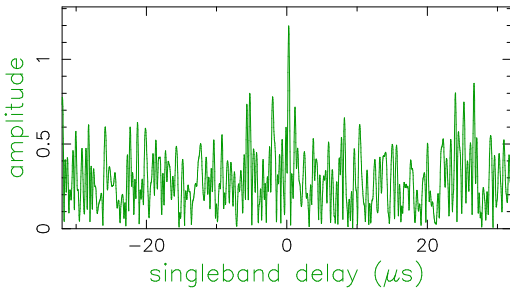
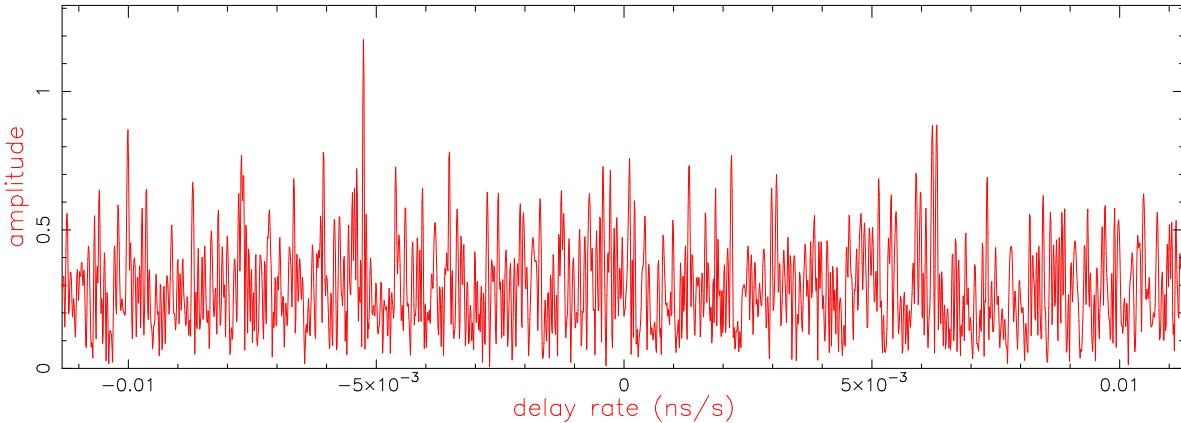
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.00138084344E+03	Apriori delay (usec)	-9.00174691648E+03	Resid mbdelay (usec)	-7.19218E-06	+/- 5.6E-03
Sband delay (usec)	-9.00138084314E+03	Apriori clock (usec)	-2.1130913E+03	Resid sbdelay (usec)	3.66073E-01	+/- 5.6E-03
Phase delay (usec)	-9.00174691130E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	5.17367E-06	+/- 4.5E-07
Delay rate (us/s)	-5.57928256485E-01	Apriori rate (us/s)	-5.57928067627E-01	Resid rate (us/s)	-1.88858E-07	+/- 2.6E-09
Total phase (deg)	-283.9	Apriori accel (us/s/s)	1.25806751320E-05	Resid phase (deg)	-145.2	+/- 14.0

ph/seg (deg)	93.3	Theor.	119.7	Amplitude	1.130 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	81.3	Search (2048X8)	1.125	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.	0.474	Inc. frq. avg.	1.120	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	Inc. frq. avg.	1.120			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	

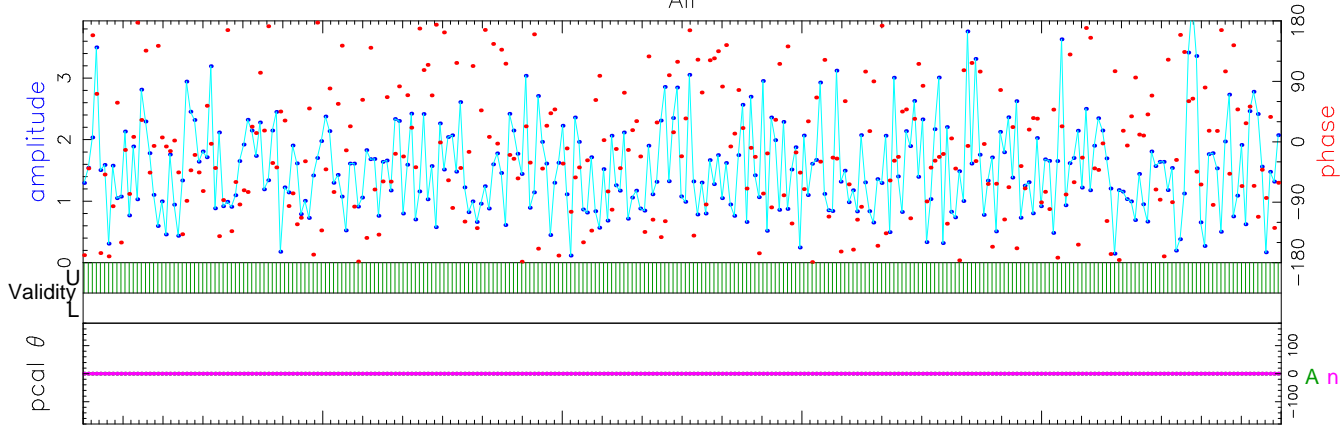
A: az 297.1 el 26.3 pa 123.2 n: az 230.7 el 49.7 pa 36.0 u,v (fr/asec) 3293.361 -8953.575 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/An..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/An.W.25.1T5H1A

Fringe quality 8



SNR 8.7
Int time 299.977
Amp 1.310
Phase -194.5
PFD 6.6e-11
Delays (us)
SBD 0.269730
MBD -0.000004
Fringe rate (Hz)
-0.452392
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052007
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
-26.6
0.4
1549.9
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
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.00147719094E+03	Apriori delay (usec)	-9.00174691648E+03	Resid mbdelay (usec)	-4.35601E-06	+/-	5.3E-03
Sband delay (usec)	-9.00147718648E+03	Apriori clock (usec)	-2.1130913E+03	Resid sbdelay (usec)	2.69730E-01	+/-	5.3E-03
Phase delay (usec)	-9.00174691734E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-8.58092E-07	+/-	4.3E-07
Delay rate (us/s)	-5.57933319455E-01	Apriori rate (us/s)	-5.57928067627E-01	Resid rate (us/s)	-5.25183E-06	+/-	2.5E-09
Total phase (deg)	-333.3	Apriori accel (us/s/s)	1.25806751320E-05	Resid phase (deg)	-194.5	+/-	13.2

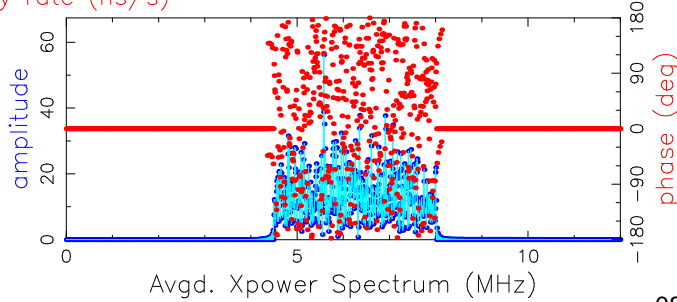
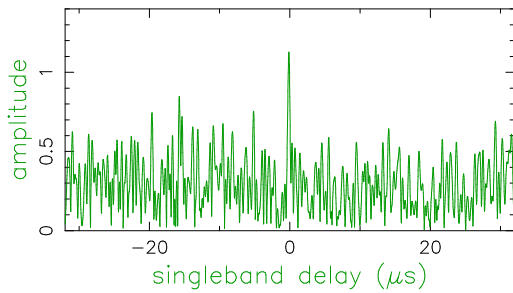
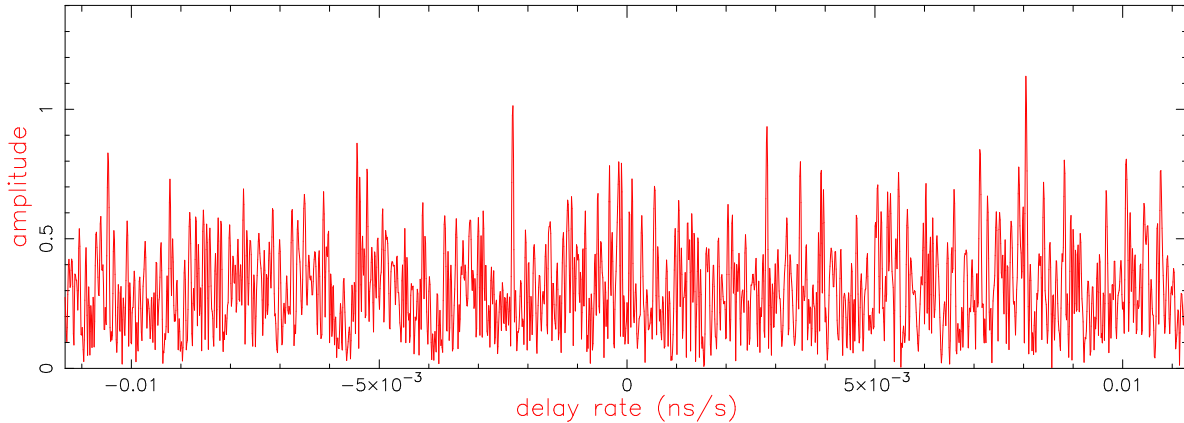
ph/seg (deg)	RMS 92.0	Theor. 112.9	Amplitude Search (2048X8)	1.310 +/- 0.151	1.174	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	67.9	197.1	Interp.	0.000	0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.569	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	71.0	11.5	Inc. frq. avg.	1.290	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

A: az 297.1 el 26.3 pa 123.2 n: az 230.7 el 49.7 pa 36.0 u,v (fr/asec) 3293.361 -8953.575 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/An..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/An.W.40.1T5H1A

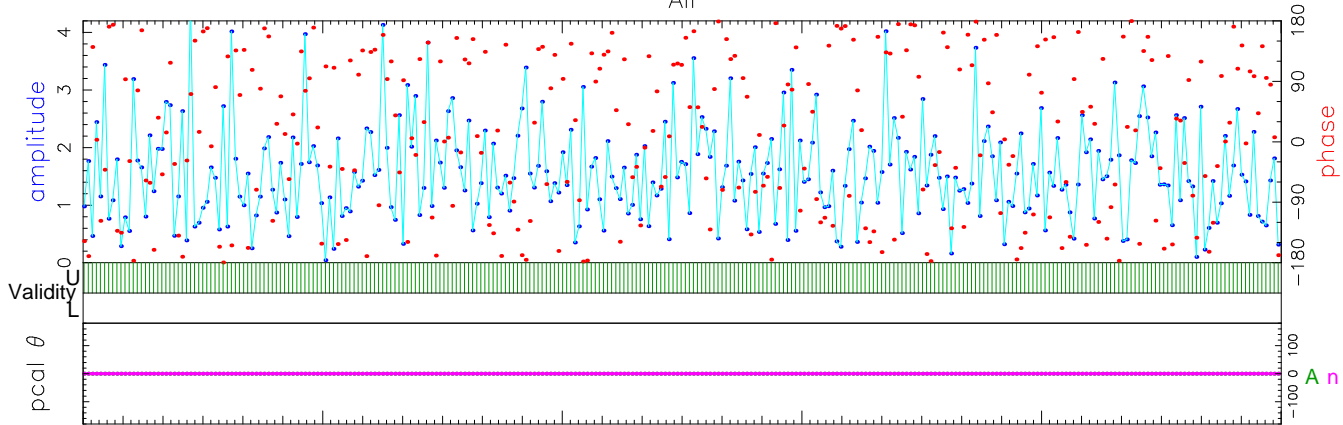
Fringe quality 8

SNR 8.2
Int time 299.924
Amp 1.401
Phase 352.7
PFD 4.7e-09
Delays (us)
SBD -0.132779
MBD 0.000007
Fringe rate (Hz)
0.692933
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052009
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"



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



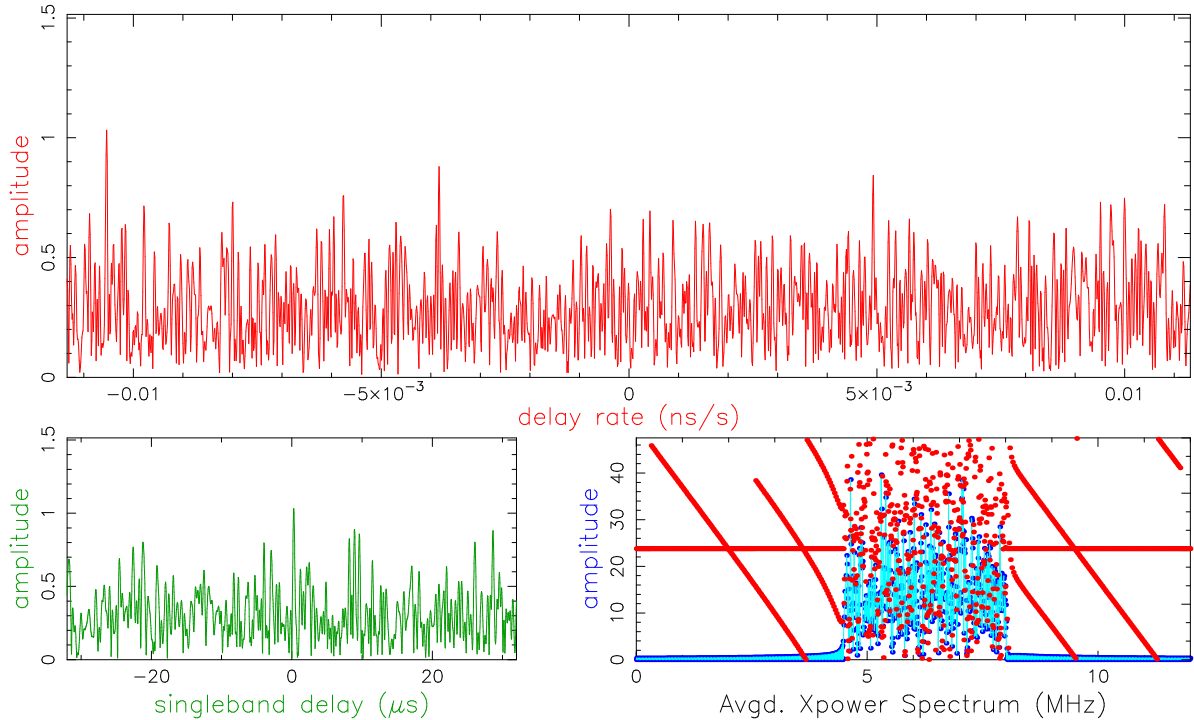
86227.00
153.7
0.4
1530.6
U/L 586/0
A 0
n 0
A:n 0:0
A:n 0:0
A 1000
n 1000
A W03UY
n W03UL

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)	-9.00187969846E+03	Apriori delay (usec)	-9.00174691648E+03	Resid mbdelay (usec)	7.05097E-06	+/-	5.6E-03
Sband delay (usec)	-9.00187969514E+03	Apriori clock (usec)	-2.1130913E+03	Resid sbdelay (usec)	-1.32779E-01	+/-	5.6E-03
Phase delay (usec)	-9.00174691152E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	4.95800E-06	+/-	4.5E-07
Delay rate (us/s)	-5.57920023356E-01	Apriori rate (us/s)	-5.57928067627E-01	Resid rate (us/s)	8.04427E-06	+/-	2.6E-09
Total phase (deg)	214.0	Apriori accel (us/s/s)	1.25806751320E-05	Resid phase (deg)	352.7	+/-	14.0

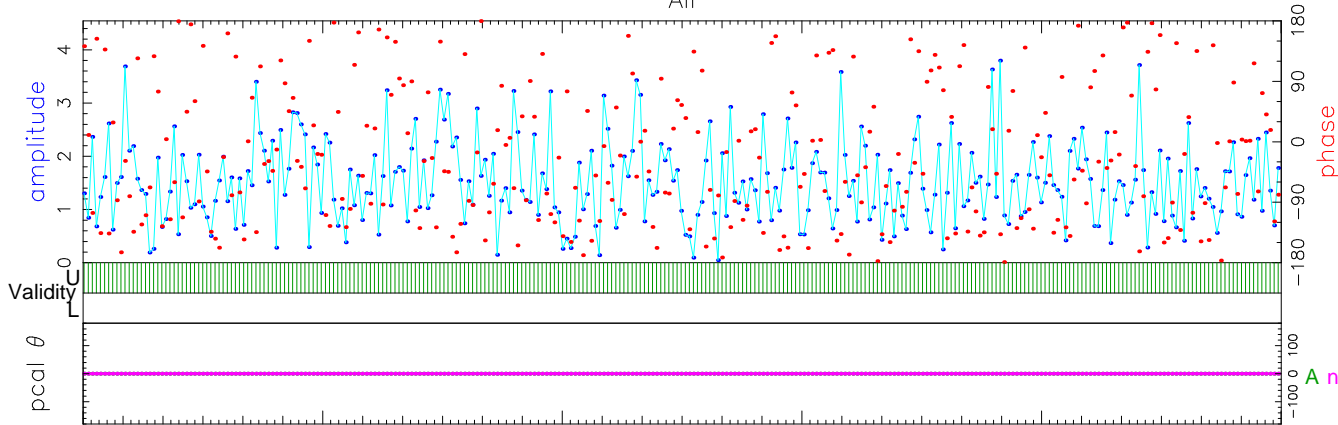
ph/seg (deg)	RMS 92.9	Theor. 119.9	Amplitude Search (2048X8)	1.401 +/- 0.171	1.107	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	83.5	209.2	Interp.	0.000	1.107	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.0	Inc. seg. avg.	0.613	1.107	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.2	Inc. frq. avg.	1.389	1.107	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 297.1 el 26.3 pa 123.2 n: az 230.7 el 49.7 pa 36.0 u,v (fr/asec) 3293.361 -8953.575 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/An..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/An.W.56.1T5H1A



Fringe quality 8
SNR 7.5
Int time 299.977
Amp 1.515
Phase -15.1
PFD 1.1e-06
Delays (us)
SBD 0.273460
MBD -0.000005
Fringe rate (Hz)
-0.907000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052004
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



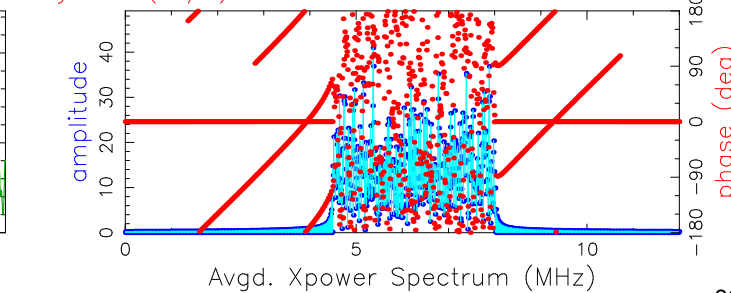
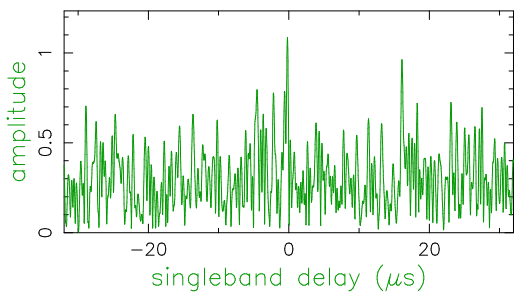
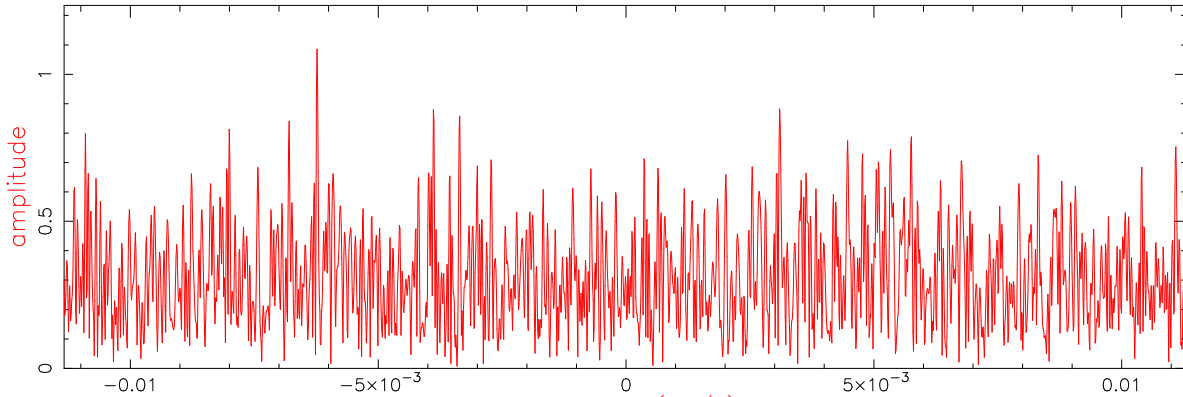
86227.00
-90.2
0.4
1550.1
U/L 586/0
A 0
n 0
A:n 0:0
A:n 0:0
A 1000
n 1000
A W03UX
n W03UL

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

Group delay (usec)(sbd)	-9.00147345687E+03	Apriori delay (usec)	-9.00174691648E+03	Resid mbdelay (usec)	-4.61758E-06	+/-	6.1E-03
Sband delay (usec)	-9.00147345648E+03	Apriori clock (usec)	-2.1130913E+03	Resid sbdelay (usec)	2.73460E-01	+/-	6.1E-03
Phase delay (usec)	-9.00174691939E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-2.90869E-06	+/-	4.9E-07
Delay rate (us/s)	-5.57938597003E-01	Apriori rate (us/s)	-5.57928067627E-01	Resid rate (us/s)	-1.05294E-05	+/-	2.9E-09
Total phase (deg)	-153.8	Apriori accel (us/s/s)	1.25806751320E-05	Resid phase (deg)	-15.1	+/-	15.3

ph/seg (deg)	RMS 93.8	Theor. 131.1	Amplitude Search (2048X8)	1.515 +/- 0.202	1.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	88.5	228.8	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	7.7	Inc. seg. avg.	0.617	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	13.4	Inc. frq. avg.	1.501	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	

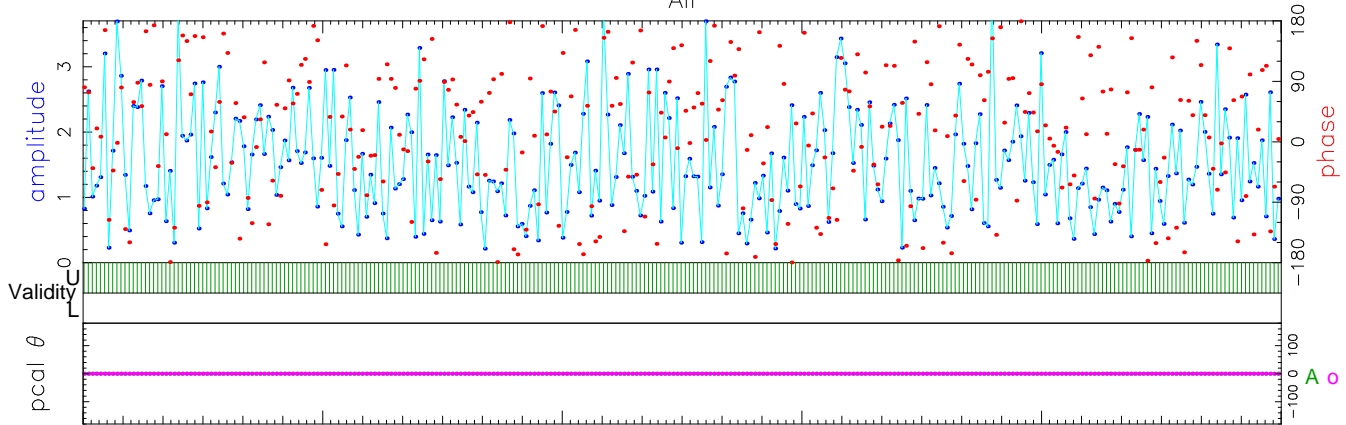
Fringe quality 8



SNR 7.9
Int time 299.921
Amp 1.234
Phase 217.0
PFD 5.2e-08
Delays (us)
SBD -0.199780
MBD -0.000004
Fringe rate (Hz)
-0.536240
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052005
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
80.0
0.4
1527.4
U/L 586/0
A 0
o 0
A:o 0:0
A:o 0:0
A 1000
o 1000
A W03UY
o W03UR

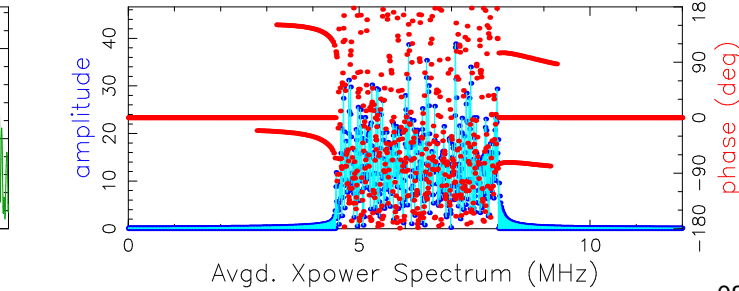
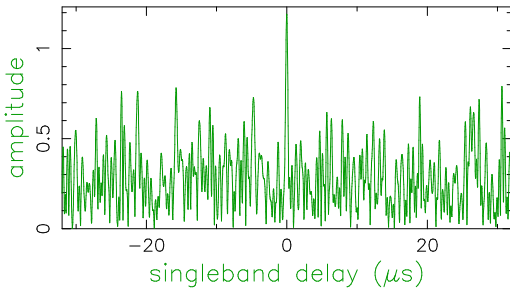
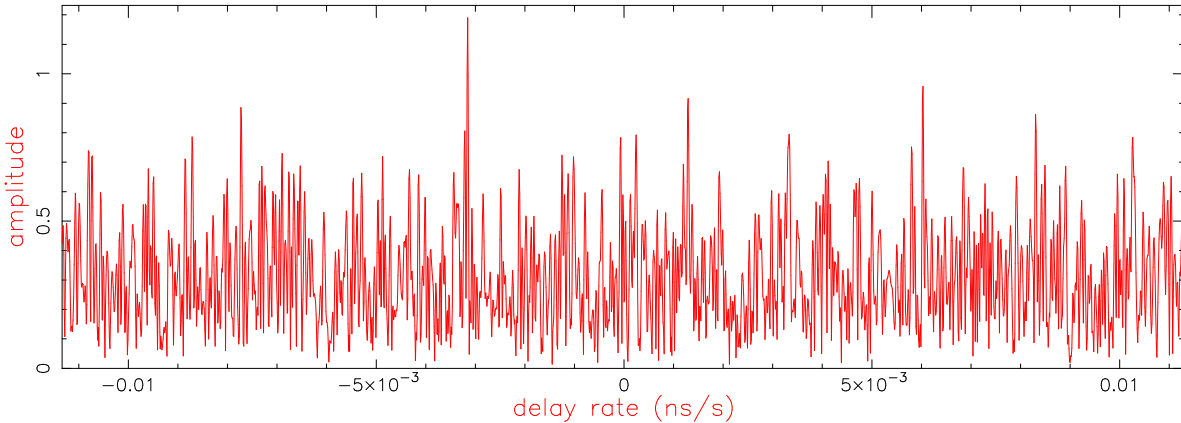
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.20420636532E+04	Apriori delay (usec)	-1.20418638739E+04	Resid mbdelay (usec)	-4.36054E-06	+/-	5.8E-03
Sband delay (usec)	-1.20420636539E+04	Apriori clock (usec)	-2.1113623E+03	Resid sbdelay (usec)	-1.99780E-01	+/-	5.8E-03
Phase delay (usec)	-1.20418638713E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	2.58031E-06	+/-	4.7E-07
Delay rate (us/s)	-1.04894468543E+00	Apriori rate (us/s)	-1.04893846021E+00	Resid rate (us/s)	-6.22521E-06	+/-	2.7E-09
Total phase (deg)	182.8	Apriori accel (us/s/s)	3.01472640975E-05	Resid phase (deg)	217.0	+/-	14.5

ph/seg (deg)	RMS 92.7	Theor. 124.5	Amplitude Search (2048X8)	1.234 +/- 0.157	1.070	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	86.1	217.2	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	7.3	Inc. seg. avg.	0.521	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.7	Inc. frq. avg.	1.223	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

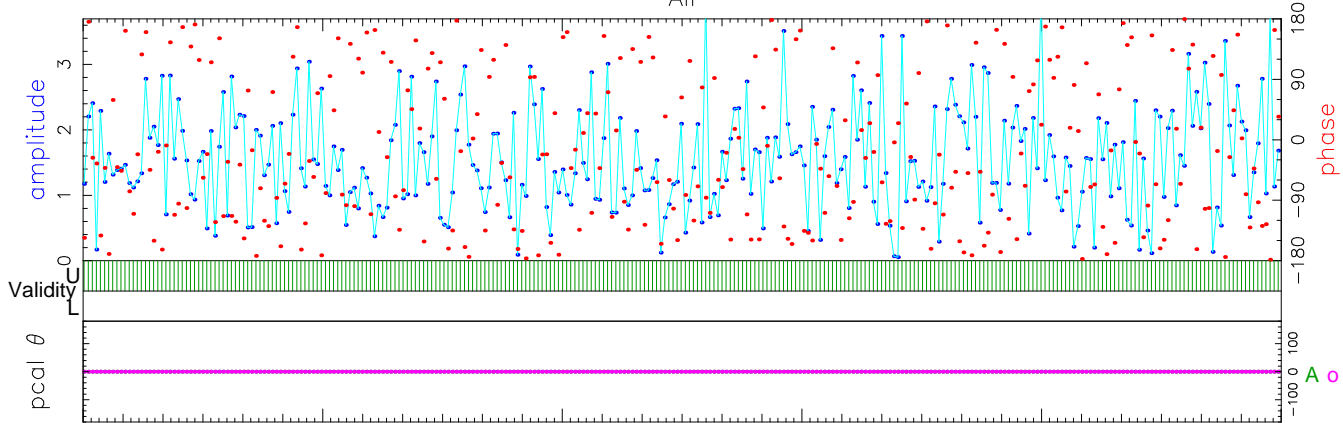
A: az 297.1 el 26.3 pa 123.2 o: az 189.2 el 64.2 pa 8.2 u,v (fr/asec) 6184.677 -8142.985 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/Ao..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/Ao.W.15.1T5H1A

Fringe quality 8



SNR 8.7
Int time 299.974
Amp 1.232
Phase 236.7
PFD 8.7e-11
Delays (us)
SBD -0.011924
MBD -0.000005
Fringe rate (Hz)
-0.271710
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052006
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
-136.7
0.4
1536.4
U/L 586/0
A 0
o 0
A:o 0:0
A:o 0:0
A 1000
o 1000
A W03UX
o W03UR

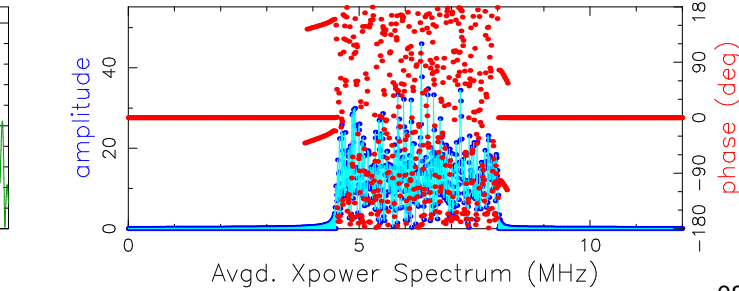
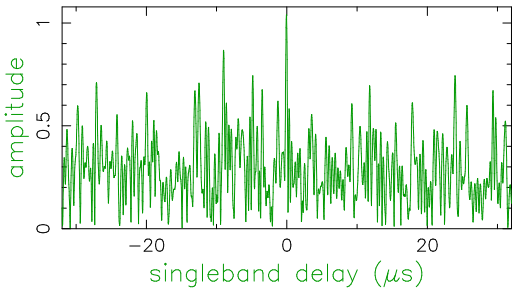
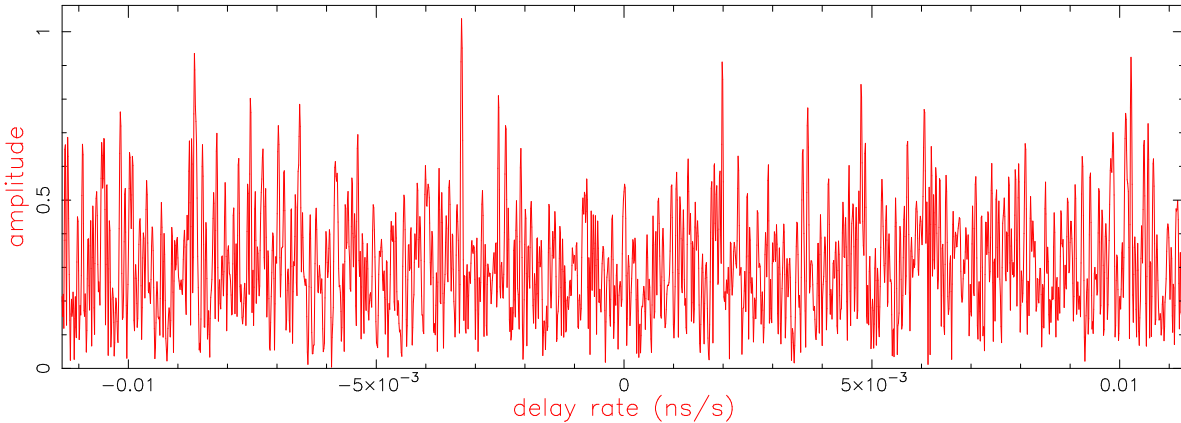
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.20418758008E+04	Apriori delay (usec)	-1.20418638739E+04	Resid mbdelay (usec)	-4.89313E-06	+/-	5.3E-03
Sband delay (usec)	-1.20418757979E+04	Apriori clock (usec)	-2.1113623E+03	Resid sbdelay (usec)	-1.19240E-02	+/-	5.3E-03
Phase delay (usec)	-1.20418638783E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-4.40675E-06	+/-	4.3E-07
Delay rate (us/s)	-1.04894161449E+00	Apriori rate (us/s)	-1.04893846021E+00	Resid rate (us/s)	-3.15428E-06	+/-	2.5E-09
Total phase (deg)	202.6	Apriori accel (us/s/s)	3.01472640975E-05	Resid phase (deg)	236.7	+/-	13.2

ph/seg (deg)	RMS 91.0	Theor. 113.3	Amplitude 1.232 +/- 0.142	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	72.8	197.8	Search (2048X8) 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	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	11.6	Inc. seg. avg. 0.542	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.221	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				nlags: 1536 t_cohere infinite	

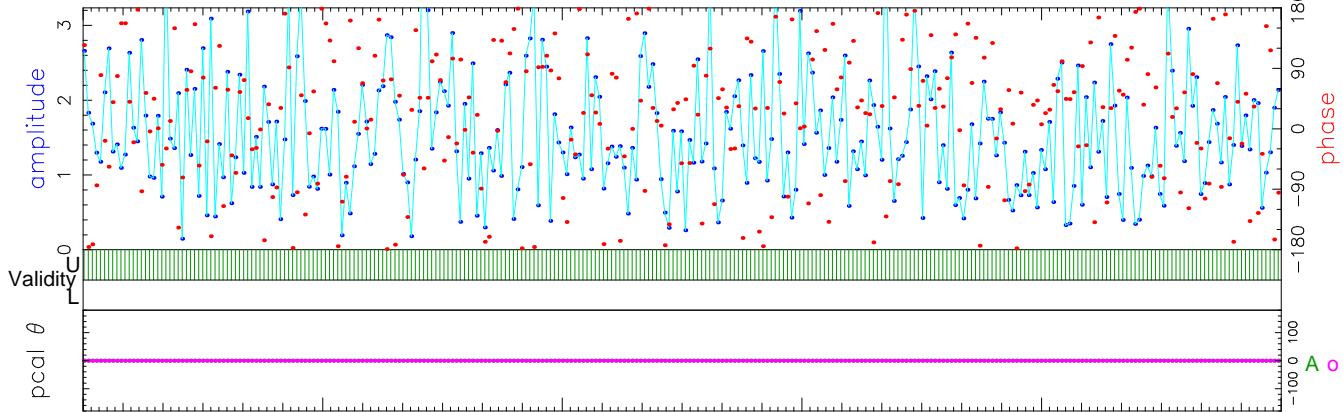
A: az 297.1 el 26.3 pa 123.2 o: az 189.2 el 64.2 pa 8.2 u,v (fr/asec) 6184.677 -8142.985 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/Ao..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/Ao.W.30.1T5H1A

Fringe quality 8



SNR 7.6
Int time 299.921
Amp 1.078
Phase 264.2
PFD 6.4e-07
Delays (us)
SBD -0.052323
MBD -0.000005
Fringe rate (Hz)
-0.281581
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052007
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
65.7
0.3
1534.5
U/L 586/0
A 0
o 0
A:o 0:0
A:o 0:0
A 1000
o 1000
A W03UY
o W03UL

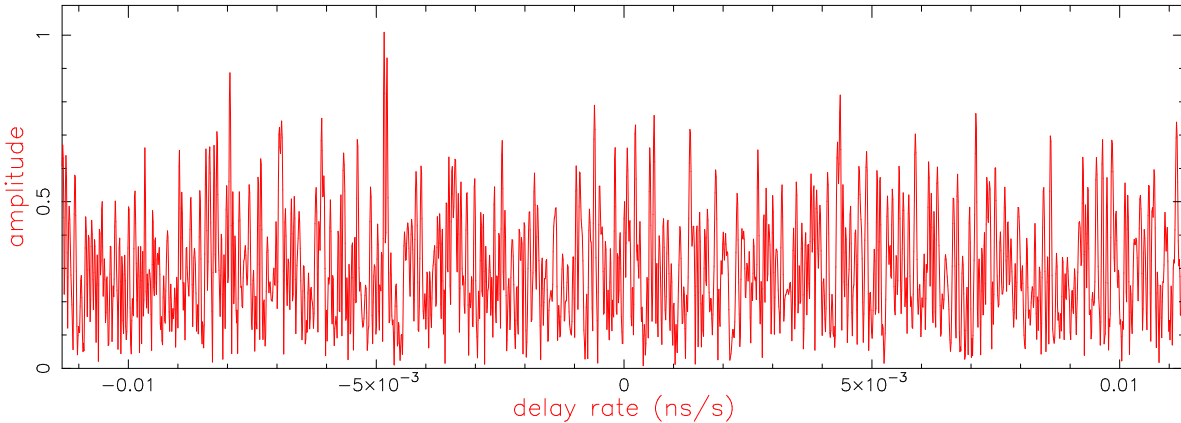
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.20419161938E+04	Apriori delay (usec)	-1.20418638739E+04	Resid mbdelay (usec)	-4.54586E-06	+/-	6.1E-03
Sband delay (usec)	-1.20419161965E+04	Apriori clock (usec)	-2.1113623E+03	Resid sbdelay (usec)	-5.23227E-02	+/-	6.1E-03
Phase delay (usec)	-1.20418638717E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	2.11910E-06	+/-	4.9E-07
Delay rate (us/s)	-1.04894172909E+00	Apriori rate (us/s)	-1.04893846021E+00	Resid rate (us/s)	-3.26888E-06	+/-	2.8E-09
Total phase (deg)	230.1	Apriori accel (us/s/s)	3.01472640975E-05	Resid phase (deg)	264.2	+/-	15.2

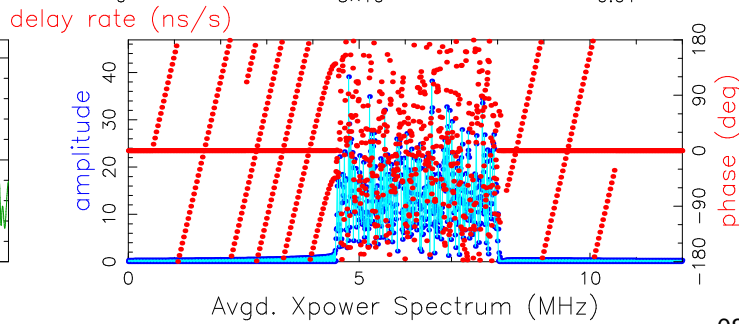
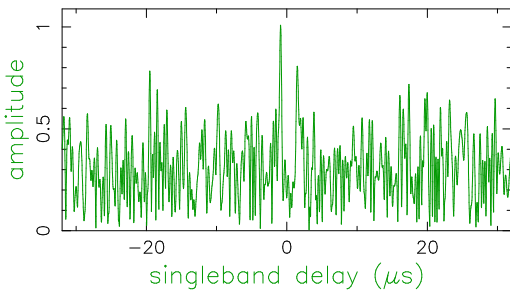
ph/seg (deg)	RMS 91.2	Theor. 129.8	Amplitude Search (2048X8)	1.078 +/- 0.143	1.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	93.5	226.6	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	7.6	Inc. seg. avg.	0.451	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.8	13.2	Inc. frq. avg.	1.066	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 297.1 el 26.3 pa 123.2 o: az 189.2 el 64.2 pa 8.2 u,v (fr/asec) 6184.677 -8142.985 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/Ao..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/Ao.W.41.1T5H1A

Fringe quality 8

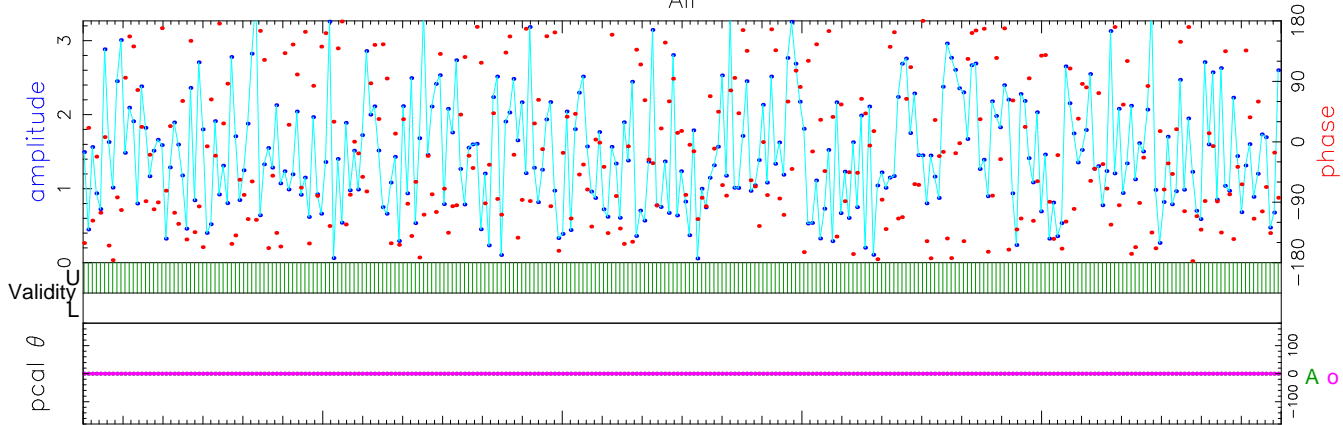


SNR 7.3
Int time 299.974
Amp 1.089
Phase 16.6
PFD 3.7e-06
Delays (us)
SBD -0.889063
MBD -0.000007
Fringe rate (Hz)
-0.416790
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052003
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
-108.7
0.3
1494.3
U/L 586/0
A 0
o 0
A:o 0:0
A:o 0:0
A 1000
o 1000
A W03UX
o W03UL

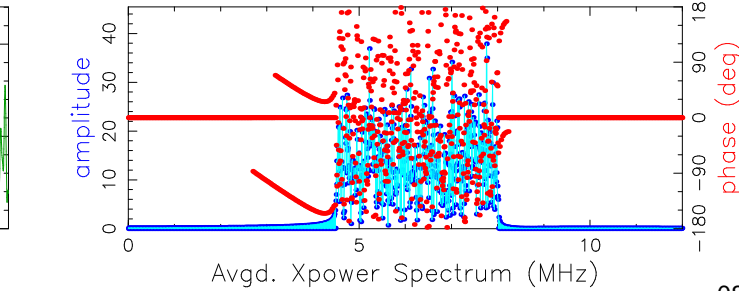
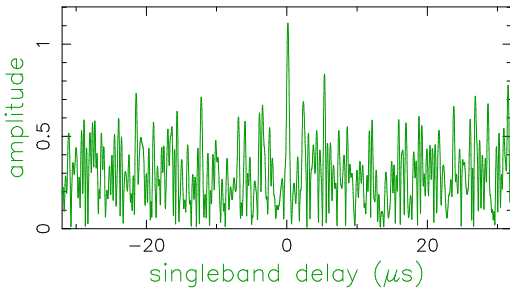
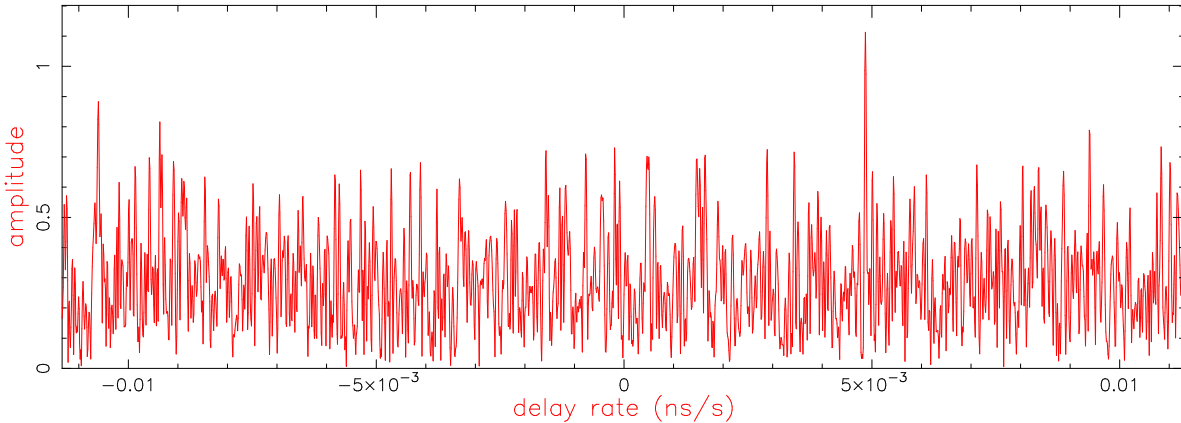
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.20427529410E+04	Apriori delay (usec)	-1.20418638739E+04	Resid mbdelay (usec)	-6.87042E-06	+/-	6.3E-03
Sband delay (usec)	-1.20427529365E+04	Apriori clock (usec)	-2.1113623E+03	Resid sbdelay (usec)	-8.89063E-01	+/-	6.3E-03
Phase delay (usec)	-1.20418638774E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-3.50661E-06	+/-	5.0E-07
Delay rate (us/s)	-1.04894329873E+00	Apriori rate (us/s)	-1.04893846021E+00	Resid rate (us/s)	-4.83852E-06	+/-	2.9E-09
Total phase (deg)	342.5	Apriori accel (us/s/s)	3.01472640975E-05	Resid phase (deg)	16.6	+/-	15.7

ph/seg (deg)	RMS 93.3	Theor. 134.0	Amplitude Search (2048X8)	1.089 +/- 0.149	1.003	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	90.1	233.8	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	7.8	Inc. seg. avg.	0.433	0.433	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	13.7	Inc. frq. avg.	1.078	1.078	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

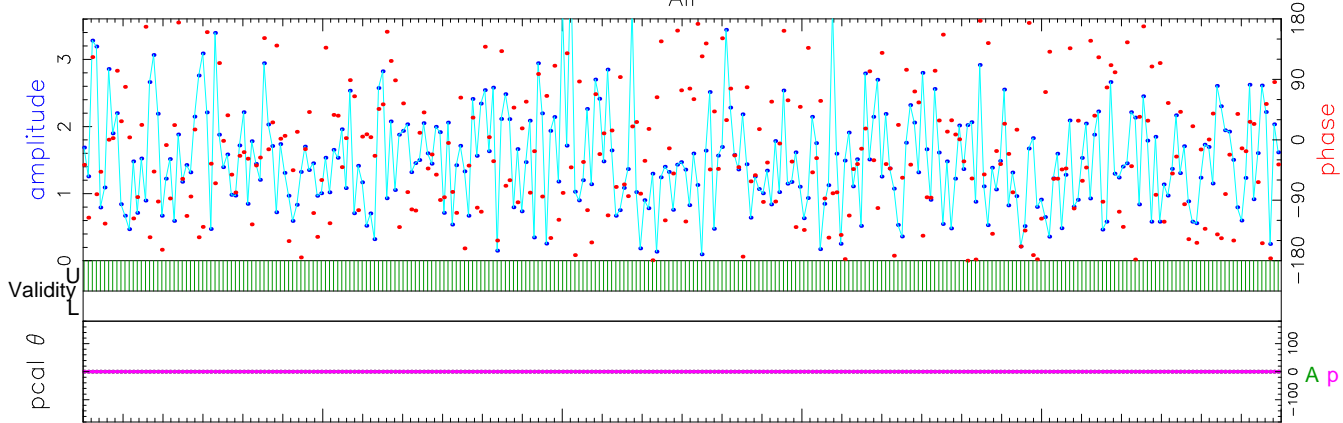
A: az 297.1 el 26.3 pa 123.2 o: az 189.2 el 64.2 pa 8.2 u,v (fr/asec) 6184.677 -8142.985 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/Ao..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/Ao.W.4.1T5H1A

Fringe quality 8



SNR 8.1
Int time 299.974
Amp 1.202
Phase -37.0
PFD 1.1e-08
Delays (us)
SBD 0.149272
MBD 0.000006
Fringe rate (Hz)
0.418947
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052004
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
-41.9
0.4
1544.2
U/L 586/0
A 0
p 0
A:p 0:0
A:p 0:0
A 1000
p 1000
A W03UX
p W03UL

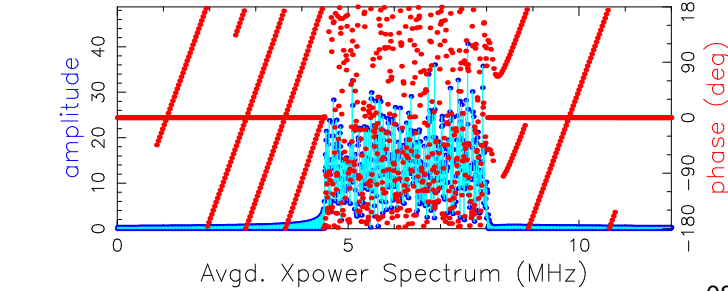
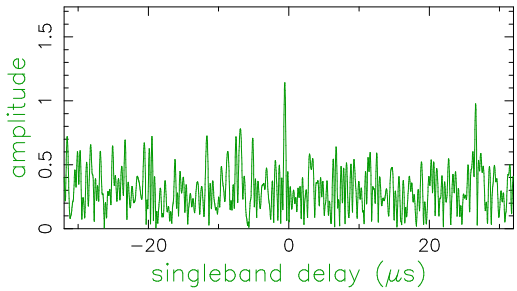
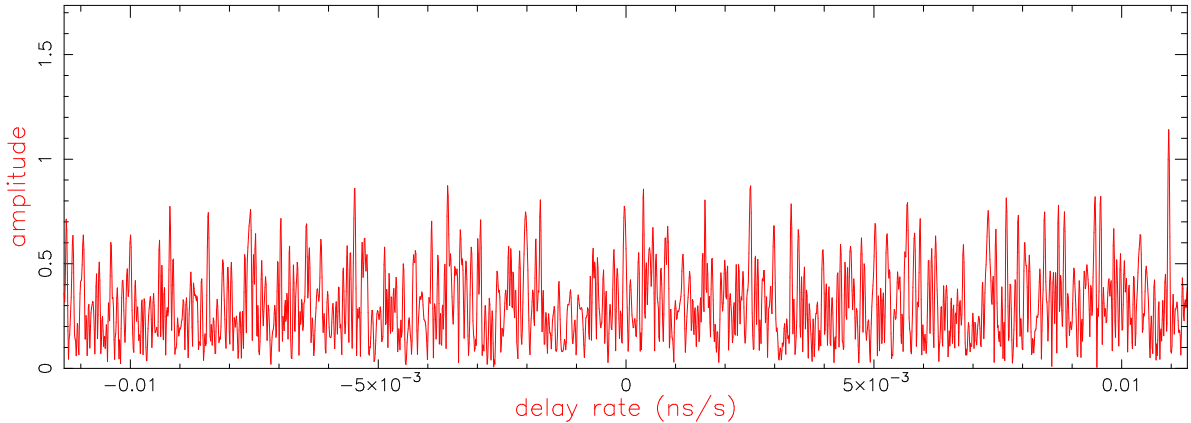
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.19560020810E+04	Apriori delay (usec)	-1.19561513555E+04	Resid mbdelay (usec)	5.75690E-06	+/-	5.7E-03
Sband delay (usec)	-1.19560020835E+04	Apriori clock (usec)	-2.1131384E+03	Resid sbdelay (usec)	1.49272E-01	+/-	5.7E-03
Phase delay (usec)	-1.19561513569E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-1.35010E-06	+/-	4.6E-07
Delay rate (us/s)	-8.25855109942E-01	Apriori rate (us/s)	-8.25859973507E-01	Resid rate (us/s)	4.86357E-06	+/-	2.6E-09
Total phase (deg)	-312.6	Apriori accel (us/s/s)	3.06256728031E-05	Resid phase (deg)	-37.0	+/-	14.2

ph/seg (deg)	89.9	RMS	121.5	Theor.	1.202 +/- 0.149	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	76.6	Search (2048X8)	1.097	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.	0.500	Inc. frq. avg.	1.193	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	Inc. frq. avg.	1.193	Sample rate(MSamp/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

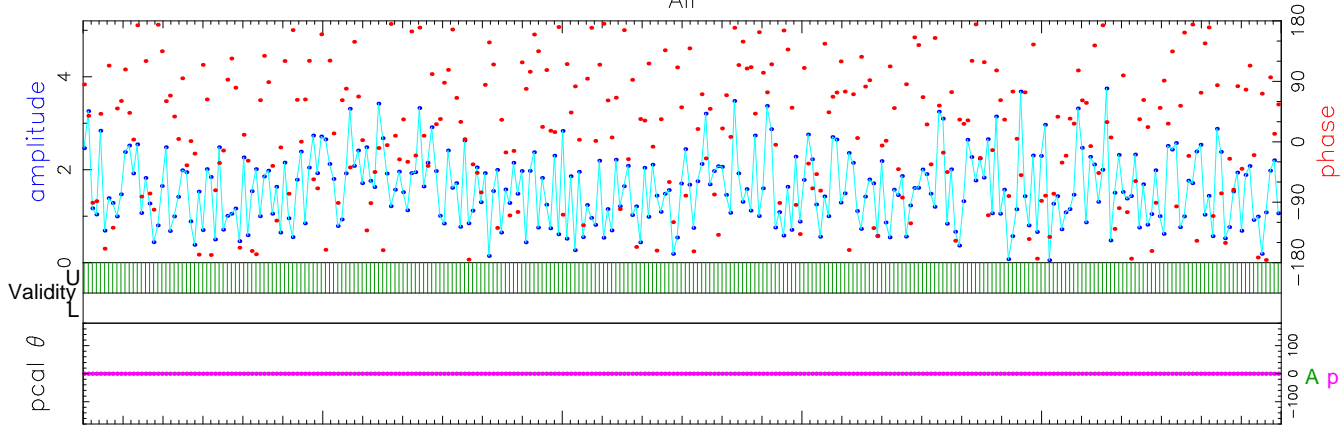
A: az 297.1 el 26.3 pa 123.2 p: az 213.2 el 63.9 pa 28.5 u,v (fr/asec) 4880.161 -7774.329 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/Ap..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/Ap.W.10.1T5H1A

Fringe quality 8



SNR 8.3
Int time 299.921
Amp 1.735
Phase 67.4
PFD 2.0e-09
Delays (us)
SBD -0.575053
MBD 0.000006
Fringe rate (Hz)
0.942607
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052008
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
56.4
0.5
1509.4
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)	-1.19567264130E+04	Apriori delay (usec)	-1.19561513555E+04	Resid mbdelay (usec)	6.03802E-06	+/-	5.5E-03
Sband delay (usec)	-1.19567264089E+04	Apriori clock (usec)	-2.1131384E+03	Resid sbdelay (usec)	-5.75053E-01	+/-	5.5E-03
Phase delay (usec)	-1.19561513537E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	1.81835E-06	+/-	4.5E-07
Delay rate (us/s)	-8.25849030778E-01	Apriori rate (us/s)	-8.25859973507E-01	Resid rate (us/s)	1.09427E-05	+/-	2.6E-09
Total phase (deg)	151.8	Apriori accel (us/s/s)	3.06256728031E-05	Resid phase (deg)	67.4	+/-	13.8

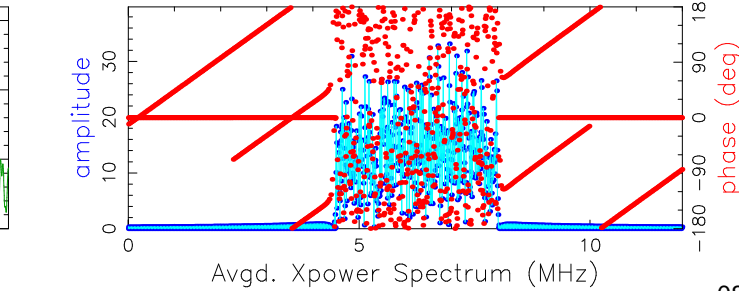
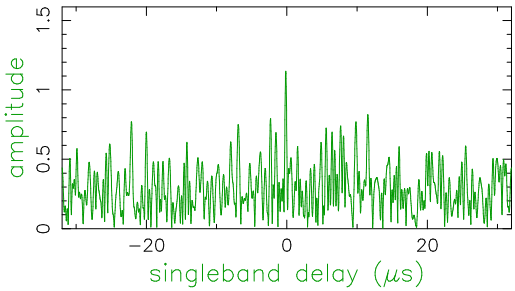
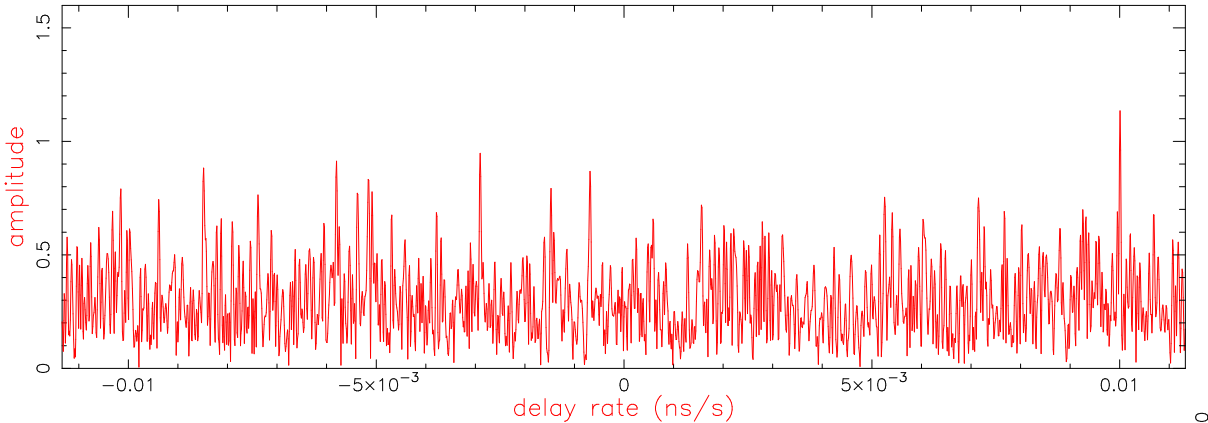
ph/seg (deg)	RMS 91.7	Theor. 118.4	Amplitude Search (2048X8)	1.735 +/- 0.209	1.118	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.8	206.6	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.772	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.1	Inc. frq. avg.	1.720	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011

A: az 297.1 el 26.3 pa 123.2 p: az 213.2 el 63.9 pa 28.5 u,v (fr/asec) 4880.161 -7774.329 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/Ap..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/Ap.W.51.1T5H1A

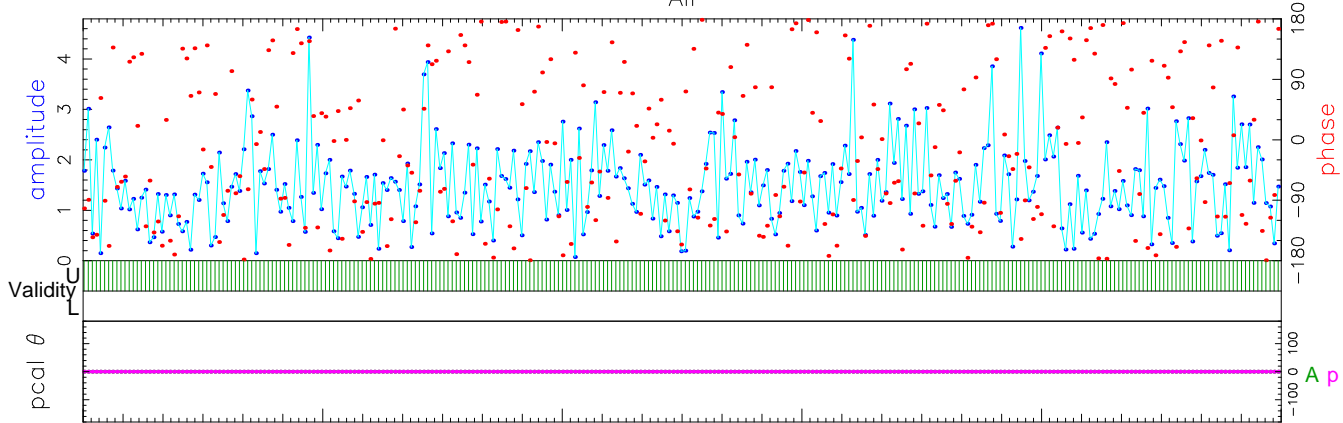
Fringe quality 8

SNR 8.2
Int time 299.974
Amp 1.599
Phase 239.4
PFD 3.2e-09
Delays (us)
SBD -0.150031
MBD 0.000005
Fringe rate (Hz)
0.860879
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052010
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"



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



86227.00
-139.7
0.5
1529.8
U/L 586/0
A 0
p 0
A:p 0:0
A:p 0:0
A 1000
p 1000
A W03UX
p W03UR

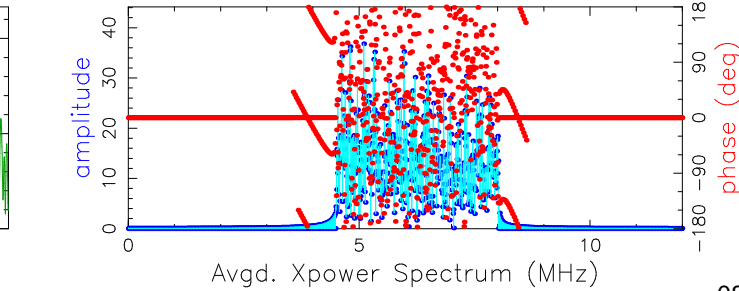
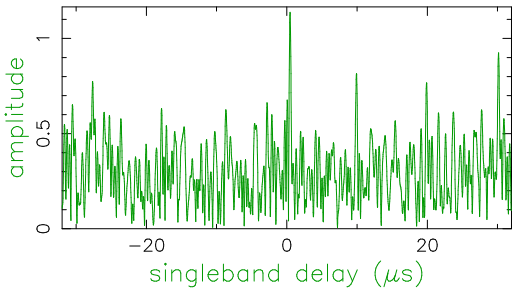
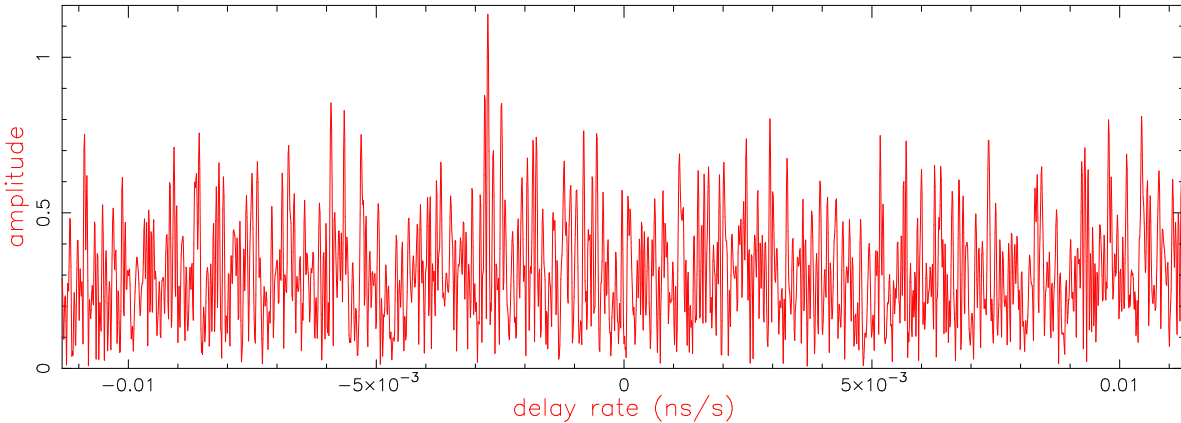
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.19563013848E+04	Apriori delay (usec)	-1.19561513555E+04	Resid mbdelay (usec)	4.98804E-06	+/-	5.6E-03
Sband delay (usec)	-1.19563013862E+04	Apriori clock (usec)	-2.1131384E+03	Resid sbdelay (usec)	-1.50031E-01	+/-	5.6E-03
Phase delay (usec)	-1.19561513600E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-4.50340E-06	+/-	4.5E-07
Delay rate (us/s)	-8.25849979556E-01	Apriori rate (us/s)	-8.25859973507E-01	Resid rate (us/s)	9.99395E-06	+/-	2.6E-09
Total phase (deg)	323.8	Apriori accel (us/s/s)	3.06256728031E-05	Resid phase (deg)	239.4	+/-	13.9

ph/seg (deg)	RMS 95.5	Theor. 119.2	Amplitude Search (2048X8)	1.599 +/- 0.194	1.107	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	79.1	208.0	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	7.0	Inc. seg. avg.	0.671	0.671	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.2	Inc. frq. avg.	1.587	1.587	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

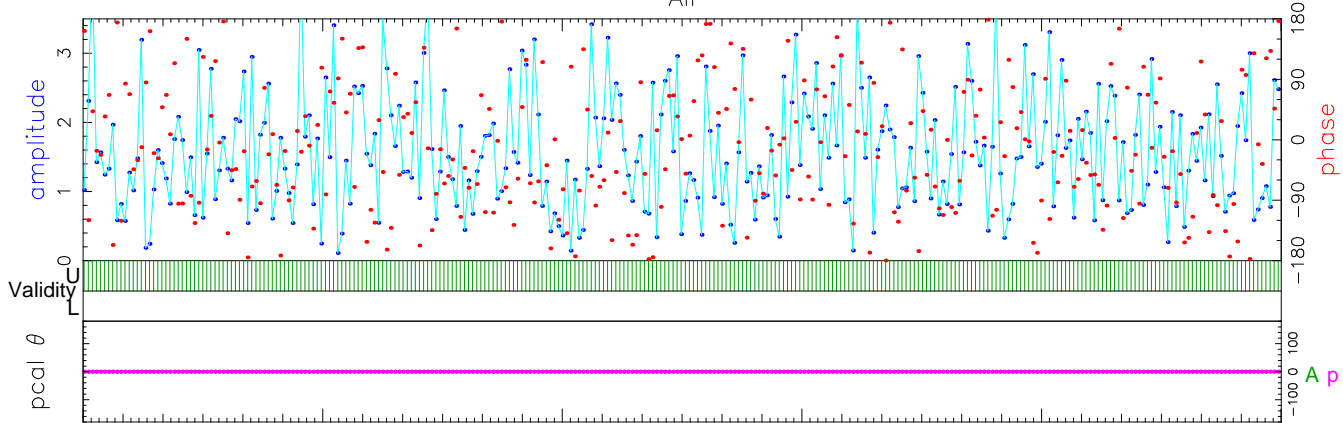
A: az 297.1 el 26.3 pa 123.2 p: az 213.2 el 63.9 pa 28.5 u,v (fr/asec) 4880.161 -7774.329 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/Ap..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/Ap.W.65.1T5H1A

Fringe quality 8



SNR 8.3
Int time 299.921
Amp 1.166
Phase -111.0
PFD 2.5e-09
Delays (us)
SBD 0.462256
MBD -0.000007
Fringe rate (Hz)
-0.236183
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052011
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



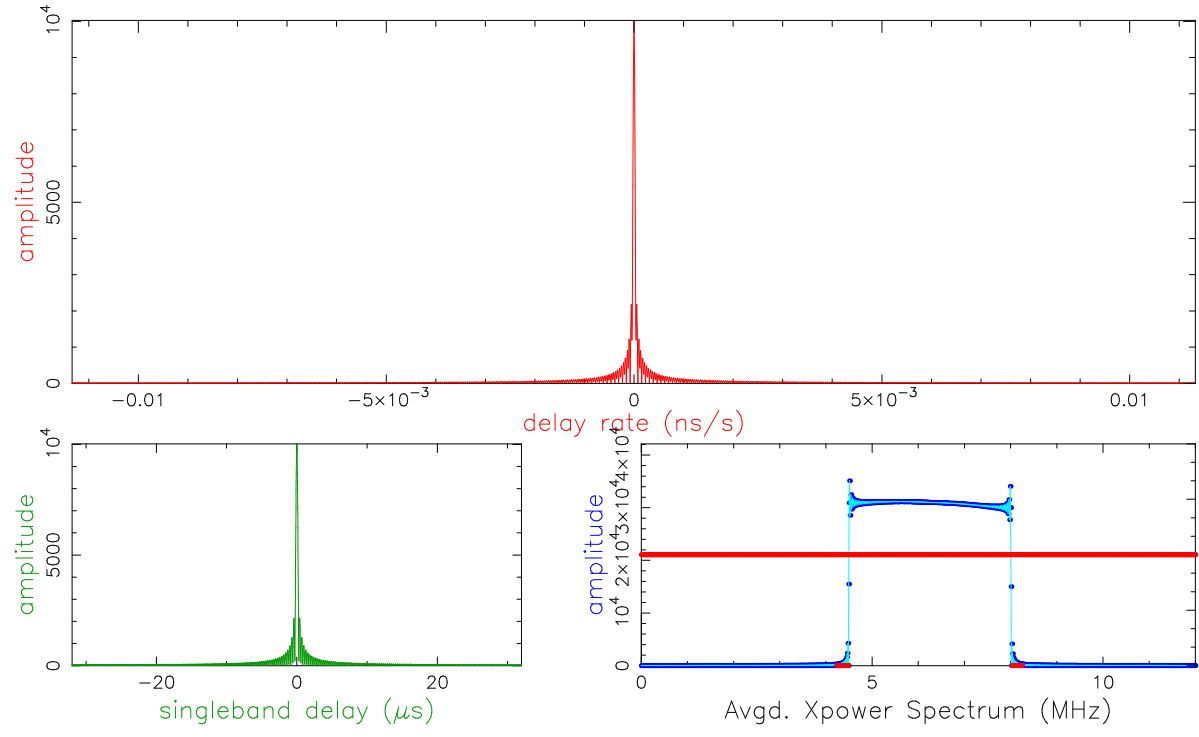
86227.00
-32.7
0.3
1559.2
U/L 586/0
A 0
p 0
A:p 0:0
A:p 0:0
A 1000
p 1000
A W03UY
p W03UL

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)	-1.19556890940E+04	Apriori delay (usec)	-1.19561513555E+04	Resid mbdelay (usec)	-6.63337E-06	+/- 5.6E-03
Sband delay (usec)	-1.19556890995E+04	Apriori clock (usec)	-2.1131384E+03	Resid sbdelay (usec)	4.62256E-01	+/- 5.6E-03
Phase delay (usec)	-1.19561513566E+04	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-1.05568E-06	+/- 4.5E-07
Delay rate (us/s)	-8.25862715362E-01	Apriori rate (us/s)	-8.25859973507E-01	Resid rate (us/s)	-2.74186E-06	+/- 2.6E-09
Total phase (deg)	-26.6	Apriori accel (us/s/s)	3.06256728031E-05	Resid phase (deg)	-111.0	+/- 13.9

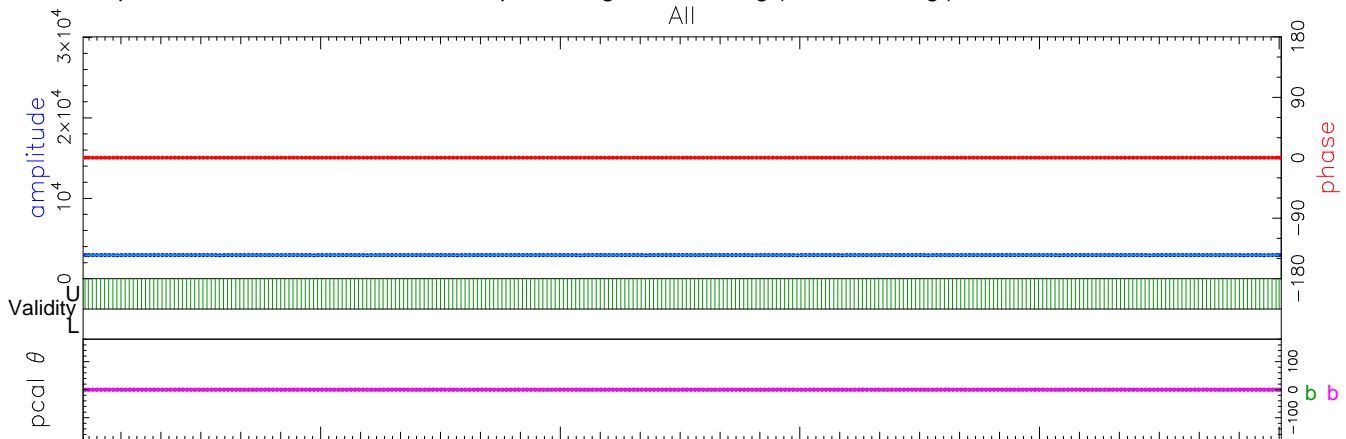
ph/seg (deg)	RMS 91.6	Theor. 118.8	Amplitude Search (2048X8)	1.123	1.166 +/- 0.141	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	84.7	207.4	Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.517		Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.1	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 297.1 el 26.3 pa 123.2 p: az 213.2 el 63.9 pa 28.5 u,v (fr/asec) 4880.161 -7774.329 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/Ap..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/Ap.W.78.1T5H1A



Fringe quality 5
SNR 72564.9
Int time 298.973
Amp 10024.376
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 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052006
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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

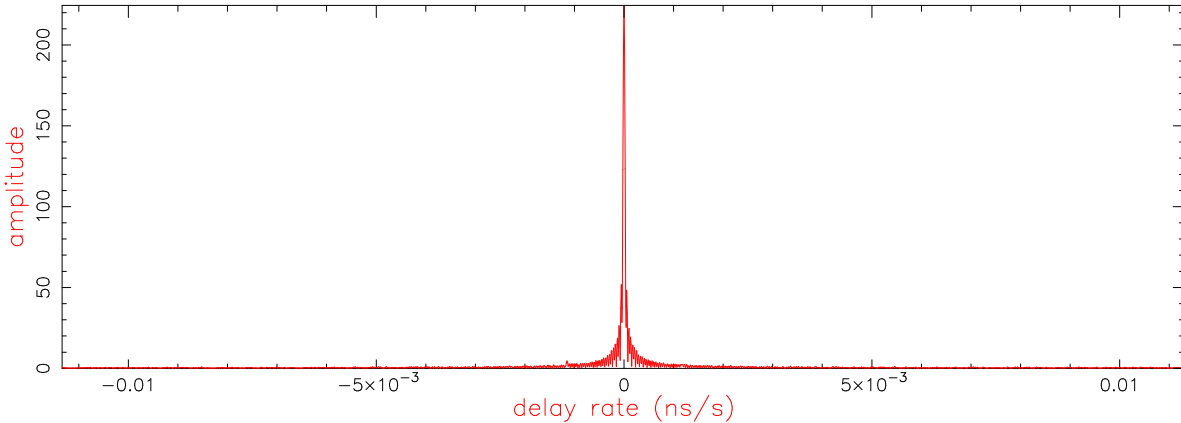


86227.00 Freq (MHz)
0.2 Phase
2936.8 Ampl.
1537.0 Sbd box
U/L 585/0 APs used
b 0 PC freqs
b 0 PC freqs
b:b 0:0 PC phase
b:b 0:0 Manl PC
b 1000 PC amp
b 1000
b W03UR Chan ids
b W03UR Chan ids

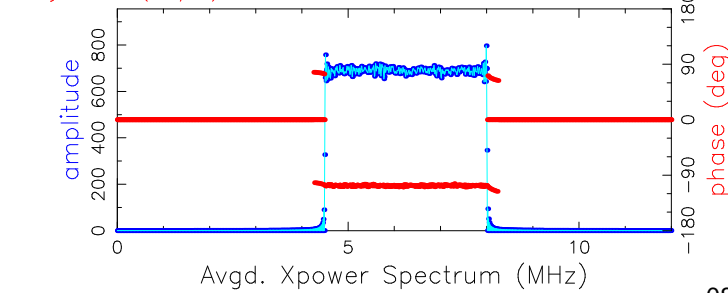
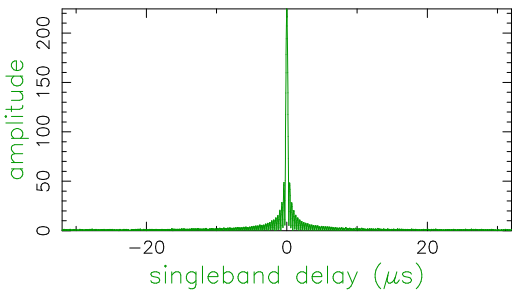
Group delay (usec)(sbd)	-4.76648845489E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.76649E-06	+/-	6.3E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	5.14608110407E-09	Apriori clockrate (us/s)	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 0.0 RMS Theor. Amplitude 10024.376 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 70.7 0.0 Search (2048X8) 10024.376 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. 2936.829 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011
Inc. frq. avg. 10024.376 Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite ion window (TEC) 0.00 0.00

Fringe quality 5

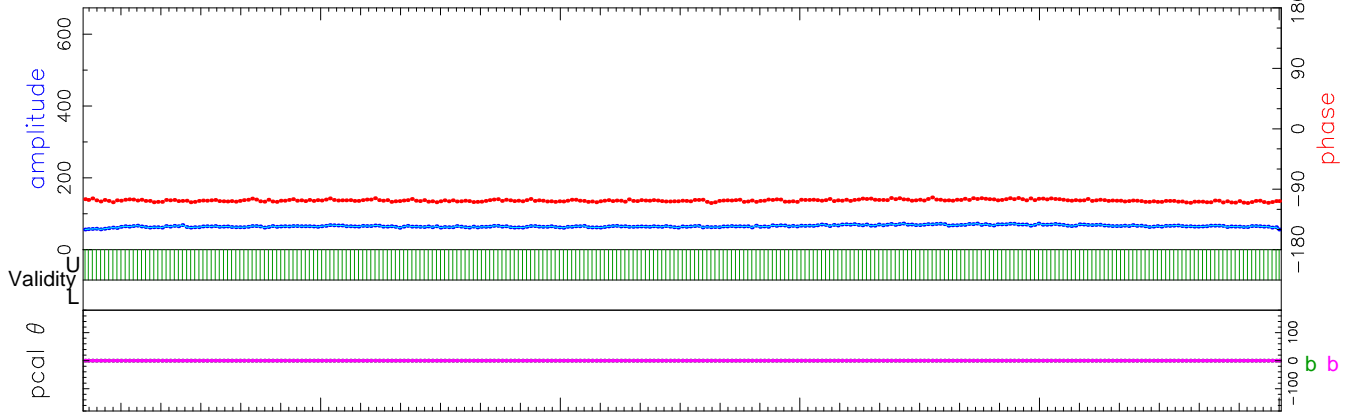


SNR 1624.9
Int time 298.973
Amp 224.475
Phase -109.6
PFD 0.0e+00
Delays (us)
SBD 0.000083
MBD -0.000006
Fringe rate (Hz)
0.000020
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052007
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
-106.7
65.8
1537.0
U/L 585/0
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

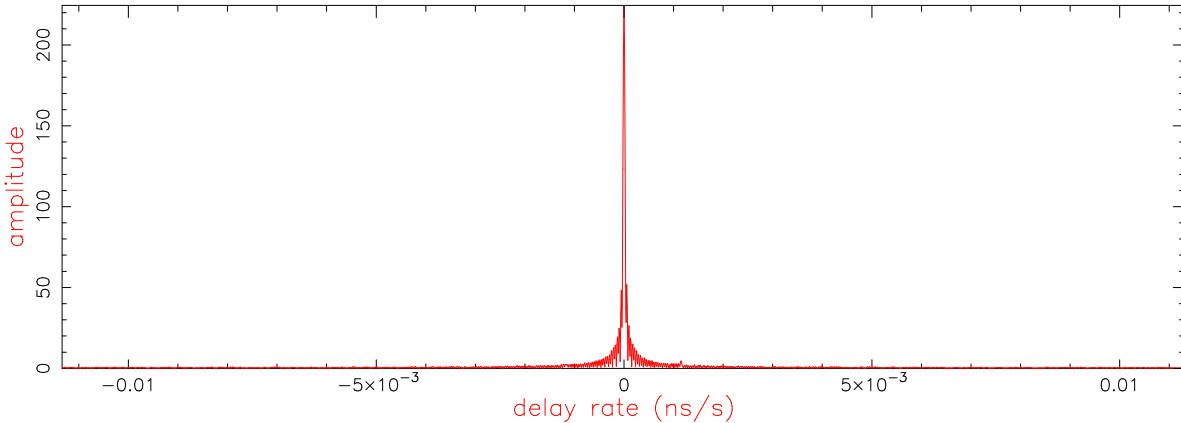
Group delay (usec)(sbd)	8.70848342167E-05	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.69353E-06	+/- 2.8E-05
Sband delay (usec)	8.26666666667E-05	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	8.26667E-05	+/- 2.8E-05
Phase delay (usec)	-3.44090596719E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.44091E-06	+/- 2.3E-09
Delay rate (us/s)	2.36658244941E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	2.36658E-10	+/- 1.3E-11
Total phase (deg)	-109.6	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-109.6	+/- 0.1

ph/seg (deg)	RMS 1.5	Theor. 0.6	Amplitude 224.475 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	1.1	Search (2048X8) 224.461	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. 65.784	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 224.475	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

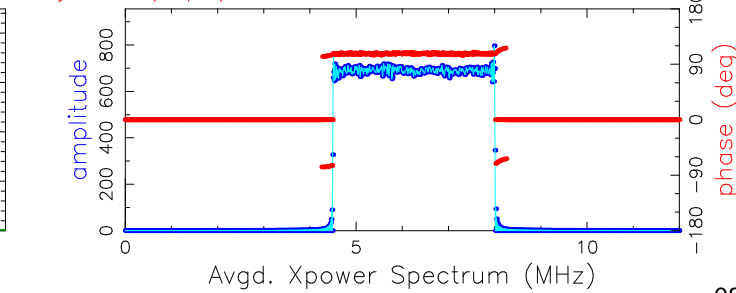
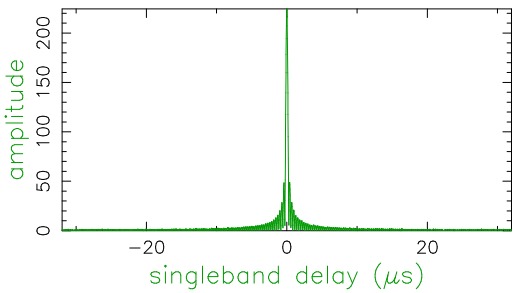
b: az 184.4 el 53.5 pa 2.8 b: az 184.4 el 53.5 pa 2.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/bb..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/bb.W.35.1T5H1A

Fringe quality 5

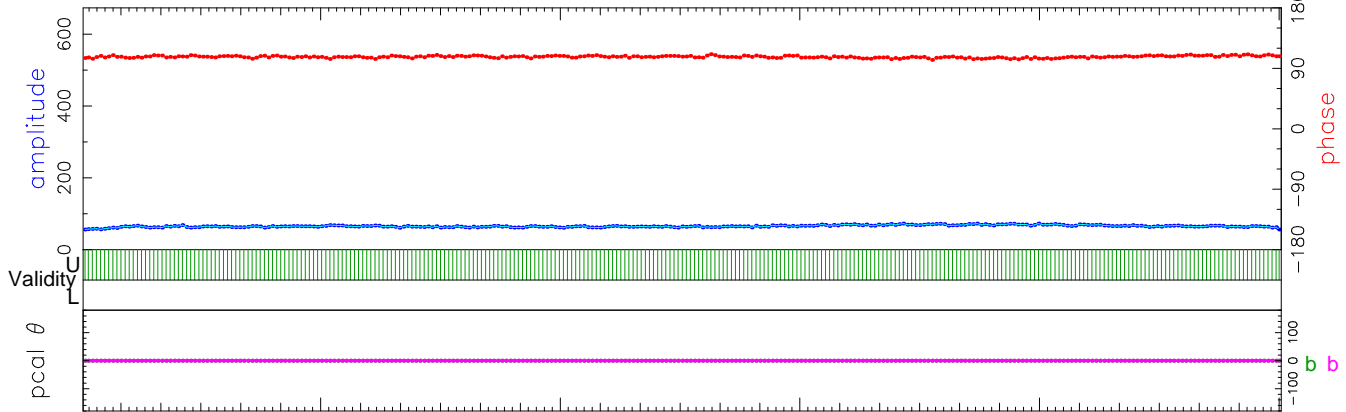


SNR 1624.9
Int time 298.973
Amp 224.475
Phase 109.6
PFD 0.0e+00
Delays (us)
SBD -0.000083
MBD -0.000005
Fringe rate (Hz)
-0.000020
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052008
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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

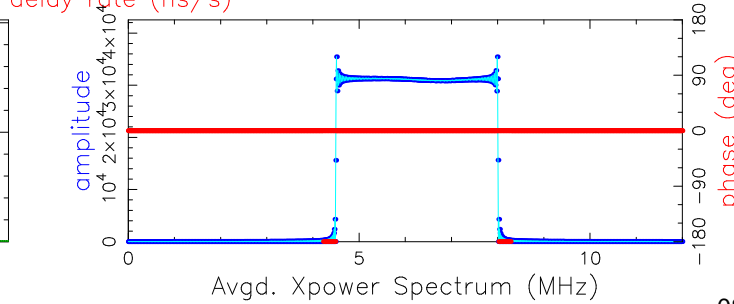
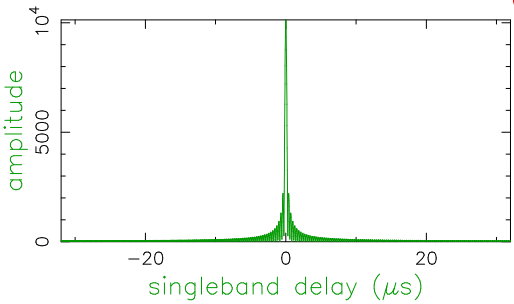
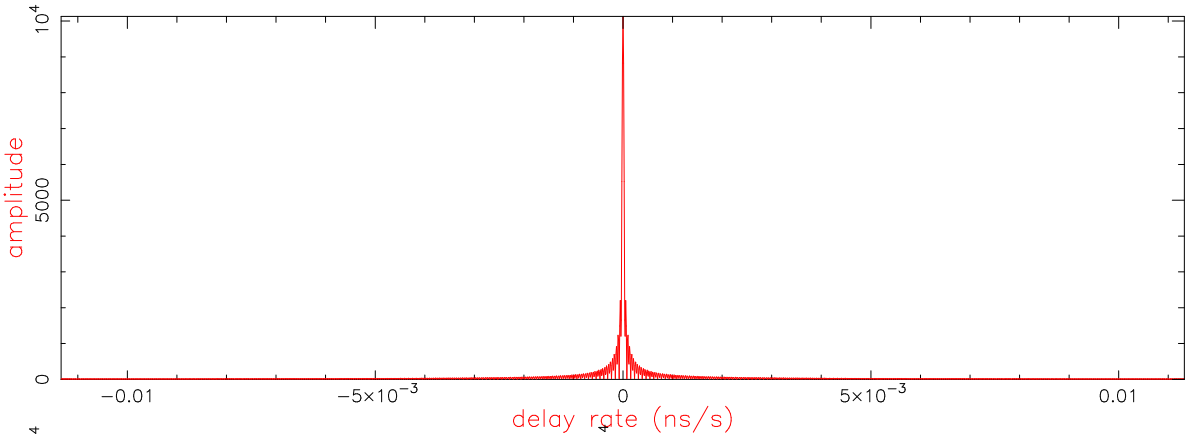


86227.00
107.1
65.8
1537.0
U/L 585/0
b 0
b 0
b:b 0:0
b:b 0:0
b 1000
b 1000
b W03UR
b W03UL

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)	-8.58761176894E-05	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-4.69505E-06	+/-	2.8E-05
Sband delay (usec)	-8.2666666667E-05	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-8.26667E-05	+/-	2.8E-05
Phase delay (usec)	3.45212186965E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.45212E-06	+/-	2.3E-09
Delay rate (us/s)	-2.36658244941E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-2.36658E-10	+/-	1.3E-11
Total phase (deg)	109.6	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	109.6	+/-	0.1

ph/seg (deg)	RMS 1.5	Theor. 0.6	Amplitude 224.475 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	1.1	Search (2048X8) 224.461	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. 65.784	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 224.475	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
b: az 184.4 el 53.5 pa 2.8			u, v (fr/asec) 0.000 0.000	nlags: 1536 t_cohere infinite	simultaneous interpolator

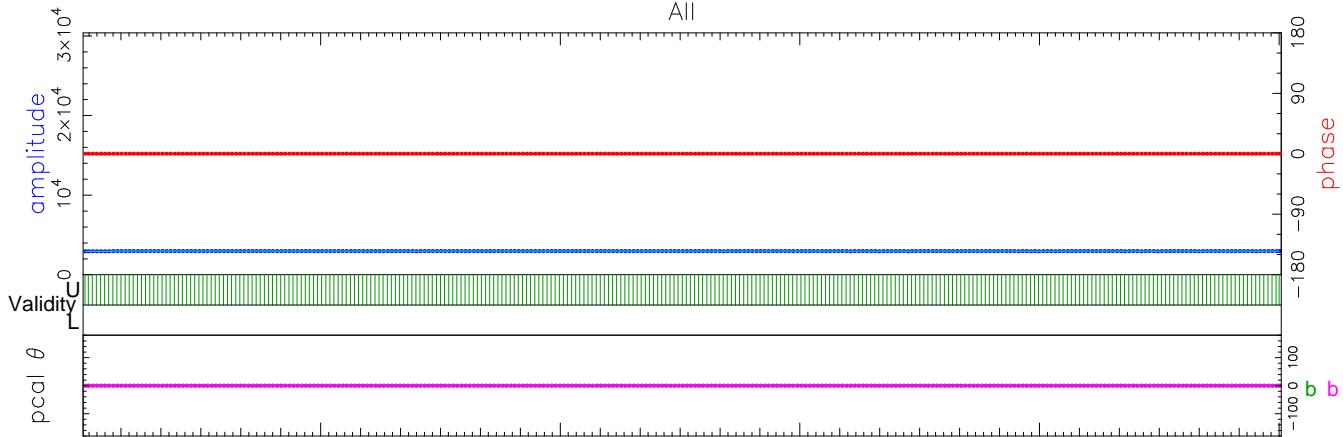


Fringe quality 5

SNR 73336.6
Int time 298.973
Amp 10130.972
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 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052004
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



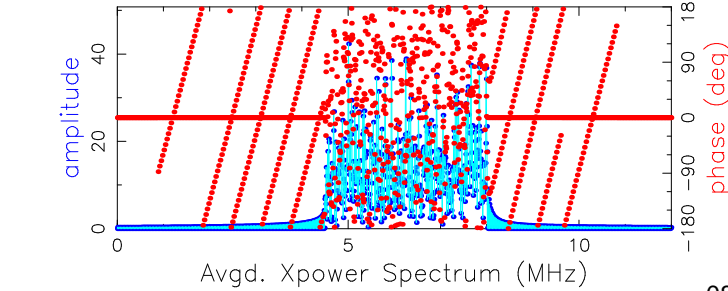
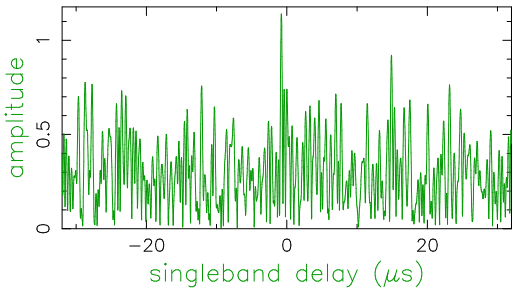
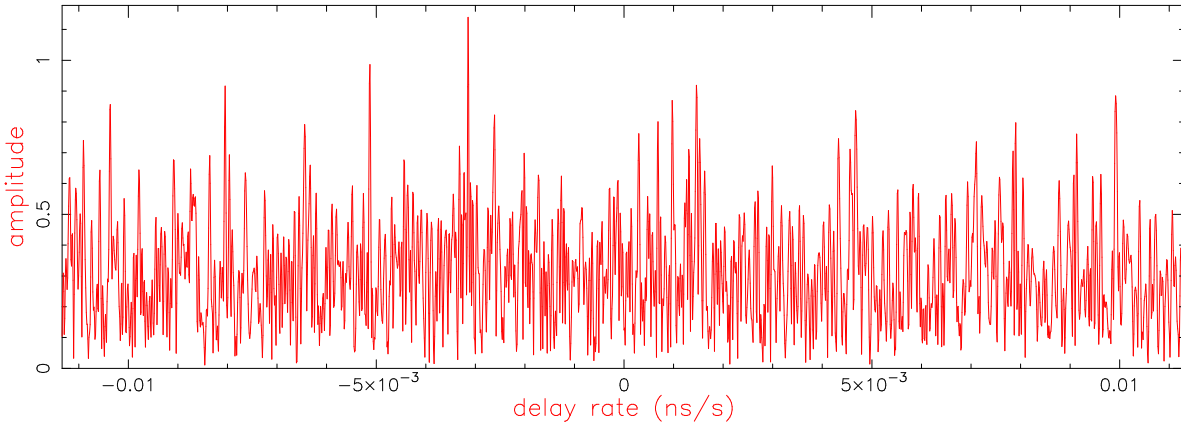
86227.00
0.2
2968.1
1537.0
U/L 585/0
b 0
b 0
b:b 0:0
b:b 0:0
b 1000
b 1000
b W03UL
b W03UL

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)	-4.70850197734E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.70850E-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)	5.08347671108E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.08348E-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

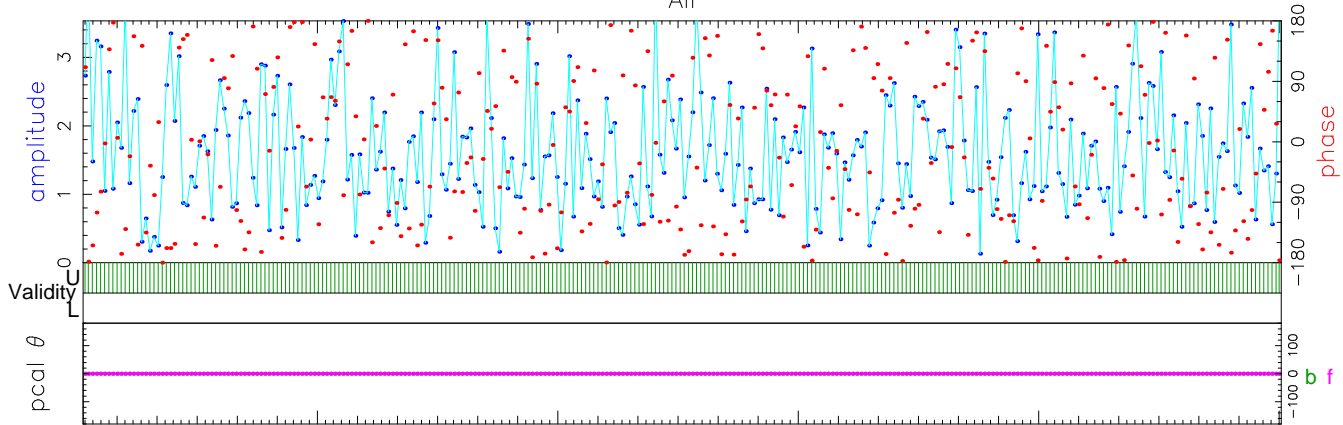
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10130.972 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10130.972	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2968.058	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10130.972	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
b: az 184.4 el 53.5 pa 2.8				u, v (fr/asec)	0.000 0.000	nlags: 1536 t_cohere infinite	simultaneous interpolator

Fringe quality 8



SNR 8.2
Int time 297.957
Amp 1.178
Phase 86.4
PFD 2.7e-09
Delays (us)
SBD -0.778285
MBD -0.000007
Fringe rate (Hz)
-0.270940
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052004
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



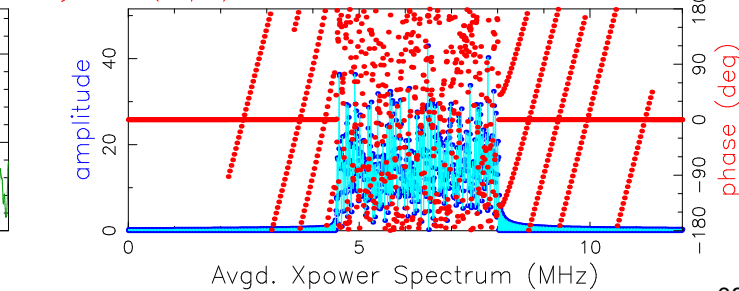
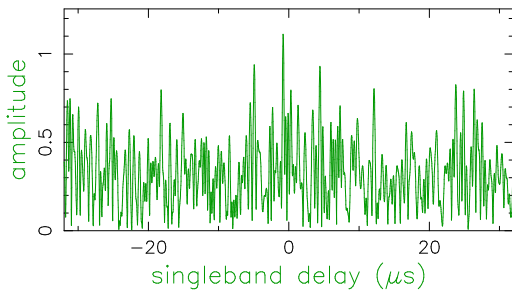
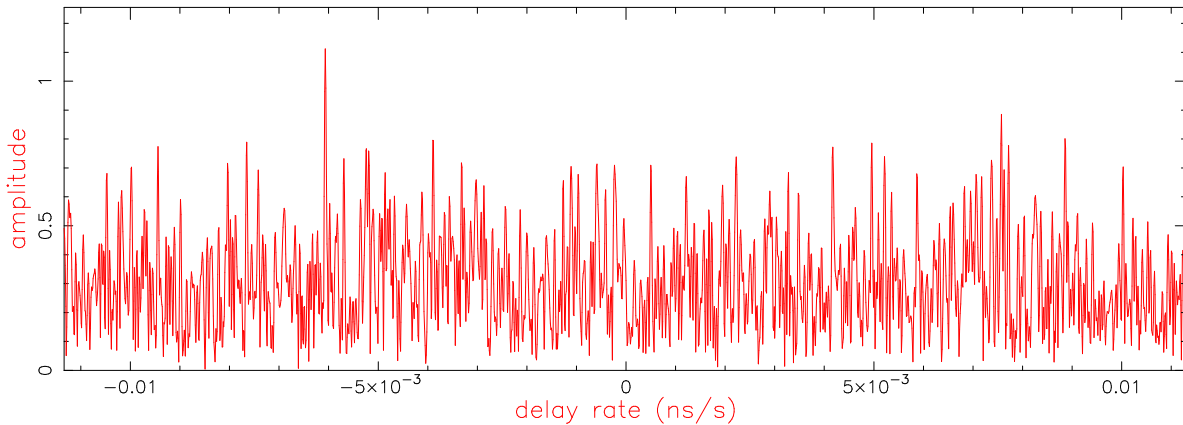
86227.00
-169.4
0.3
1499.6
U/L 583/0
b 0
f 0
b:f 0:0
b:f 0:0
b 1000
f 1000
b W03UL
f W03UL

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

Group delay (usec)(sbd)	-2.04069305872E+03	Apriori delay (usec)	-2.03991476913E+03	Resid mbdelay (usec)	-6.68320E-06	+/-	5.6E-03
Sband delay (usec)	-2.04069305446E+03	Apriori clock (usec)	-1.3252640E+01	Resid sbdelay (usec)	-7.78285E-01	+/-	5.6E-03
Phase delay (usec)	-2.03991477459E+03	Apriori clockrate (us/s)	-2.5000000E-07	Resid phdelay (usec)	-5.46283E-06	+/-	4.5E-07
Delay rate (us/s)	3.69412838772E-01	Apriori rate (us/s)	3.69415984120E-01	Resid rate (us/s)	-3.14535E-06	+/-	2.6E-09
Total phase (deg)	9.8	Apriori accel (us/s/s)	1.61357328603E-05	Resid phase (deg)	86.4	+/-	13.9

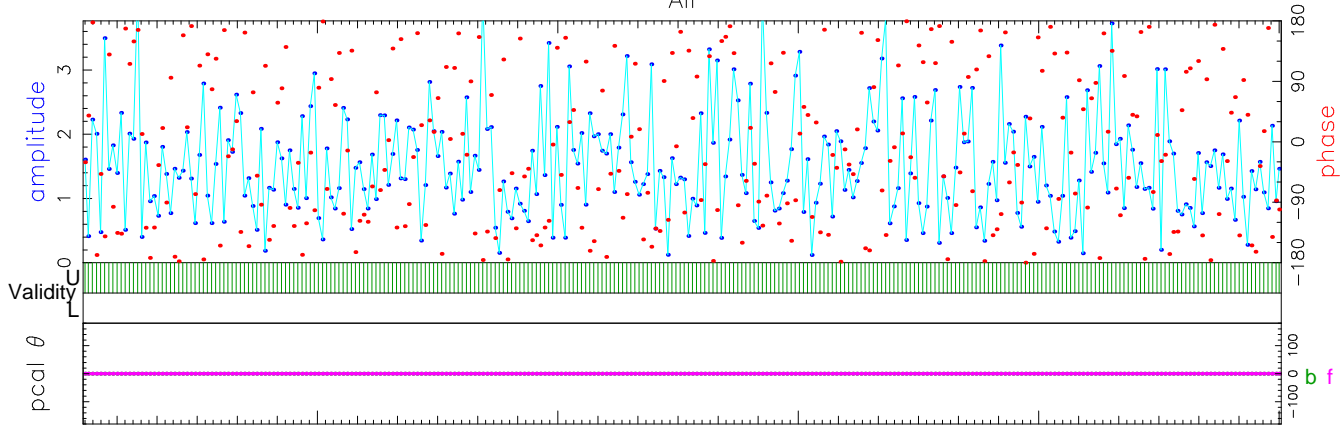
ph/seg (deg)	RMS 93.2	Theor. 118.7	Amplitude Search (2048X8)	1.178 +/- 0.143	1.133	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	85.5	207.2	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	Pcal rate:	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.530	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.1	Inc. frq. avg.	1.168	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
b: az 184.4 el 53.5 pa 2.8				f: az 225.9 el 64.5 pa 39.7	u,v (fr/asec) -2144.412 2304.131	nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

Fringe quality 8



SNR 8.0
Int time 297.957
Amp 1.255
Phase 236.1
PFD 1.4e-08
Delays (us)
SBD -0.805232
MBD -0.000004
Fringe rate (Hz)
-0.521685
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052009
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-143.5
0.4
1498.3
U/L 583/0
b 0
f 0
b:f 0:0
b:f 0:0
b 1000
f 1000
b W03UR
f W03UR

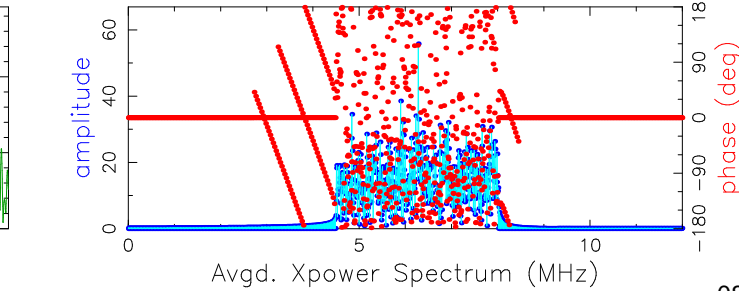
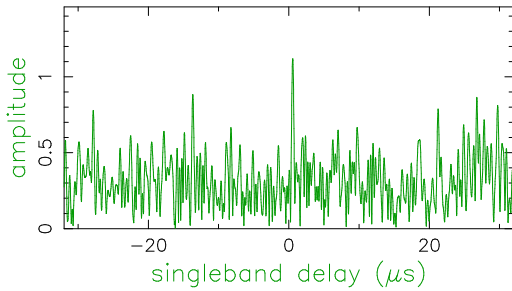
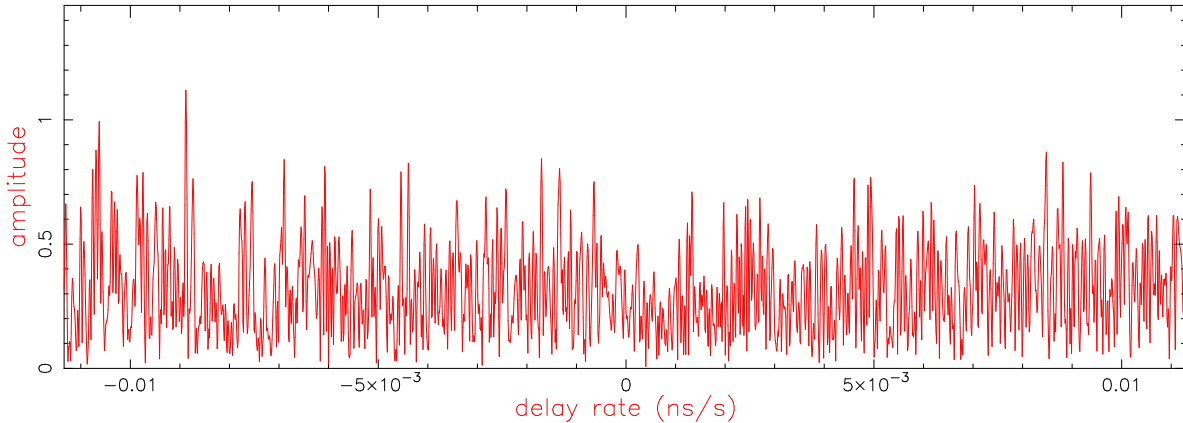
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.04071999692E+03	Apriori delay (usec)	-2.03991476913E+03	Resid mbdelay (usec)	-4.36443E-06	+/- 5.7E-03
Sband delay (usec)	-2.04072000113E+03	Apriori clock (usec)	-1.3252640E+01	Resid sbdelay (usec)	-8.05232E-01	+/- 5.7E-03
Phase delay (usec)	-2.03991477376E+03	Apriori clockrate (us/s)	-2.5000000E-07	Resid phdelay (usec)	-4.62769E-06	+/- 4.6E-07
Delay rate (us/s)	3.69409927876E-01	Apriori rate (us/s)	3.69415984120E-01	Resid rate (us/s)	-6.05624E-06	+/- 2.7E-09
Total phase (deg)	159.5	Apriori accel (us/s/s)	1.61357328603E-05	Resid phase (deg)	236.1	+/- 14.2

ph/seg (deg)	RMS 93.9	Theor. 121.7	Amplitude Search (2048X8)	1.255 +/- 0.156	1.107	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	81.8	212.5	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	7.1	Inc. seg. avg.	0.526	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.4	Inc. frq. avg.	1.244	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

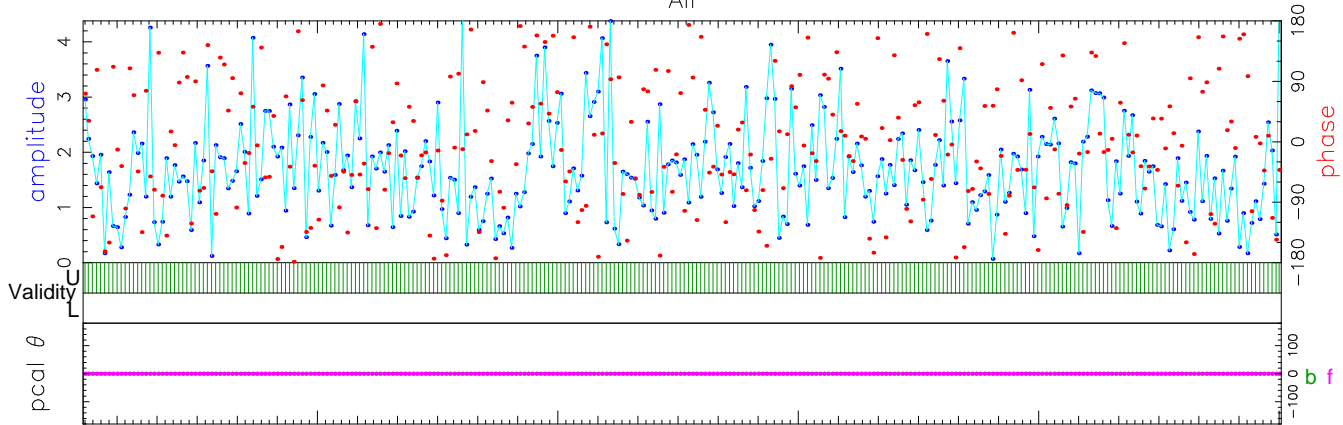
b: az 184.4 el 53.5 pa 2.8 f: az 225.9 el 64.5 pa 39.7 u,v (fr/asec) -2144.412 2304.131 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/bf..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/bf.W.52.1T5H1A

Fringe quality 8



SNR 8.1
Int time 297.957
Amp 1.461
Phase -146.5
PFD 9.7e-09
Delays (us)
SBD 0.556347
MBD -0.000006
Fringe rate (Hz)
-0.764021
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052009
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-1.4
0.4
1563.7
U/L 583/0
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)	-2.03935841767E+03	Apriori delay (usec)	-2.03991476913E+03	Resid mbdelay (usec)	-5.59685E-06	+/- 5.7E-03
Sband delay (usec)	-2.03935842246E+03	Apriori clock (usec)	-1.3252640E+01	Resid sbdelay (usec)	5.56347E-01	+/- 5.7E-03
Phase delay (usec)	-2.03991476917E+03	Apriori clockrate (us/s)	-2.5000000E-07	Resid phdelay (usec)	-4.52217E-08	+/- 4.6E-07
Delay rate (us/s)	3.69407114593E-01	Apriori rate (us/s)	3.69415984120E-01	Resid rate (us/s)	-8.86953E-06	+/- 2.7E-09
Total phase (deg)	-223.1	Apriori accel (us/s/s)	1.61357328603E-05	Resid phase (deg)	-146.5	+/- 14.2

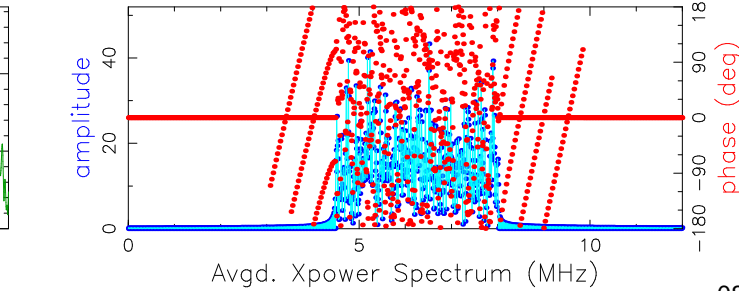
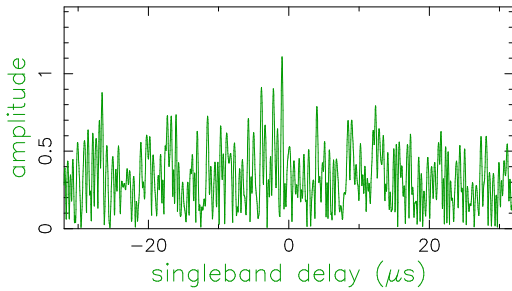
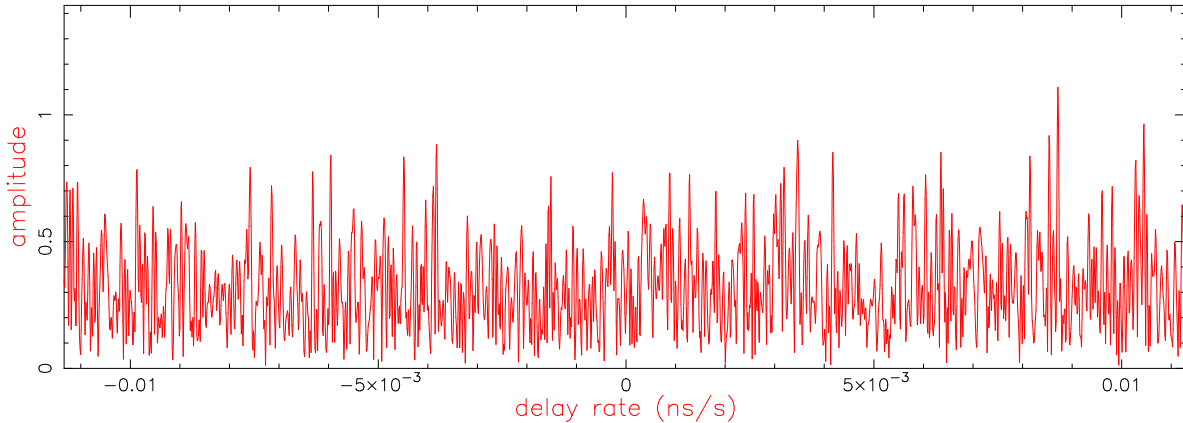
ph/seg (deg)	RMS 92.5	Theor. 121.0	Amplitude 1.461 +/- 0.181	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	94.9	211.2	Search (2048X8) 1.109	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.1	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.4	Inc. seg. avg. 0.685	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
			Inc. frq. avg. 1.449	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 184.4 el 53.5 pa 2.8 f: az 225.9 el 64.5 pa 39.7 u,v (fr/asec) -2144.412 2304.131 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/bf..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/bf.W.57.1T5H1A

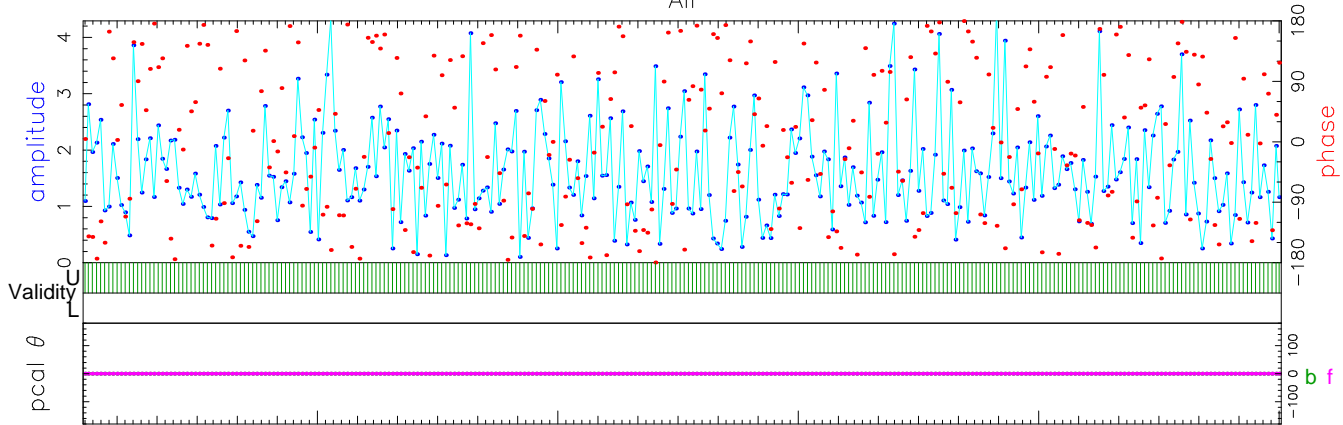
Fringe quality 8

SNR 8.0
Int time 297.957
Amp 1.432
Phase 70.8
PFD 1.8e-08
Delays (us)
SBD -0.961872
MBD 0.000004
Fringe rate (Hz)
0.749665
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052011
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"



Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-175.3
0.4
1490.8
U/L 583/0
b 0
f 0
b:f 0:0
b:f 0:0
b 1000
f 1000
b W03UR
f W03UL

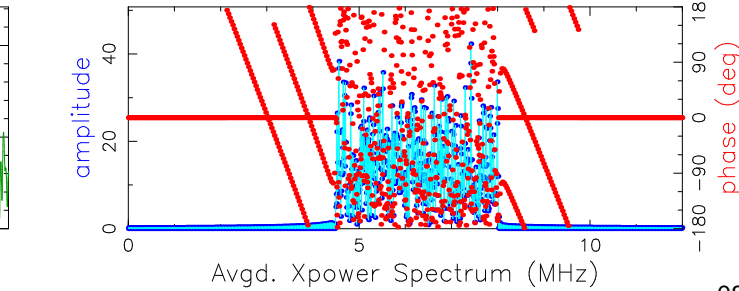
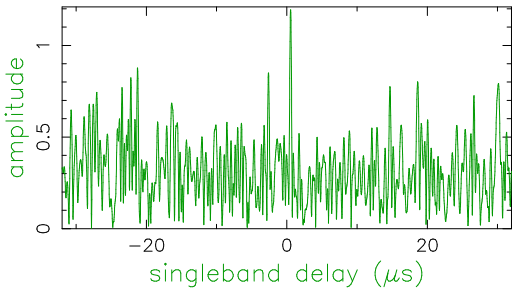
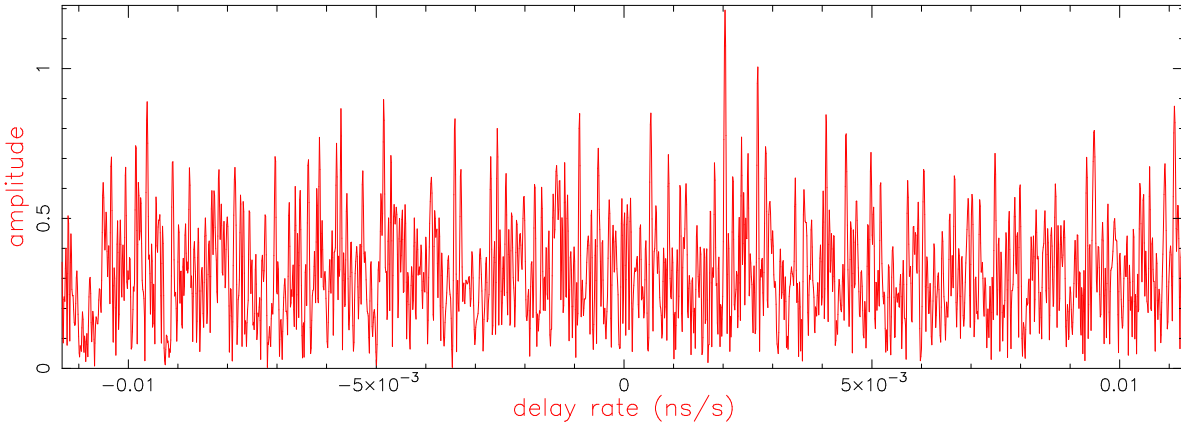
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.04087664447E+03	Apriori delay (usec)	-2.03991476913E+03	Resid mbdelay (usec)	4.34911E-06	+/-	5.7E-03
Sband delay (usec)	-2.04087664113E+03	Apriori clock (usec)	-1.3252640E+01	Resid sbdelay (usec)	-9.61872E-01	+/-	5.7E-03
Phase delay (usec)	-2.03991477478E+03	Apriori clockrate (us/s)	-2.5000000E-07	Resid phdelay (usec)	-5.65163E-06	+/-	4.6E-07
Delay rate (us/s)	3.69424686985E-01	Apriori rate (us/s)	3.69415984120E-01	Resid rate (us/s)	8.70287E-06	+/-	2.7E-09
Total phase (deg)	354.2	Apriori accel (us/s/s)	1.61357328603E-05	Resid phase (deg)	70.8	+/-	14.3

ph/seg (deg)	RMS 96.4	Theor. 122.2	Amplitude Search (2048X8)	1.432 +/- 0.179	1.103	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	91.4	213.2	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	7.1	Inc. seg. avg.	0.643	0.643	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.5	Inc. frq. avg.	1.420	1.420	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
b: az 184.4 el 53.5 pa 2.8		f: az 225.9 el 64.5 pa 39.7		u,v (fr/asec) -2144.412 2304.131		Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite
Control file: cf_1234_gmva_line		Input file: /Exps/c211d/v1/LINES1/1234/No0020/bf..1T5H1A		Output file: /Exps/c211d/v1/LINES1/1234/No0020/bf.W.73.1T5H1A		ion window (TEC) 0.00 0.00	

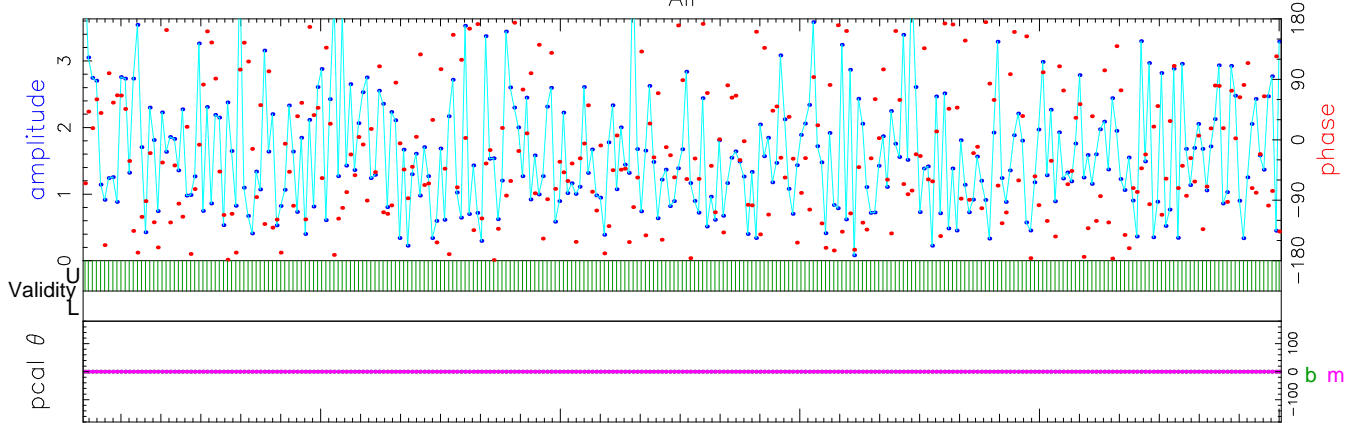
simultaneous interpolator

Fringe quality 8



SNR 8.6
Int time 298.973
Amp 1.211
Phase -6.7
PFD 9.2e-11
Delays (us)
SBD 0.538524
MBD 0.000007
Fringe rate (Hz)
0.175766
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052004
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



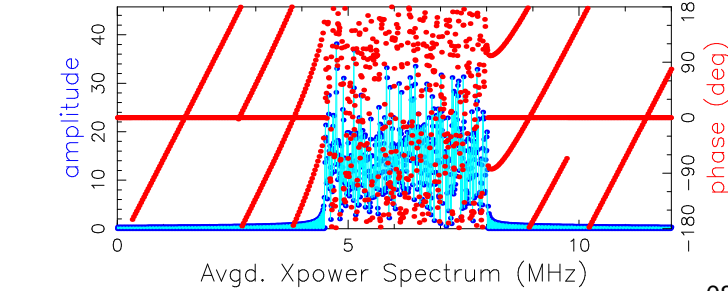
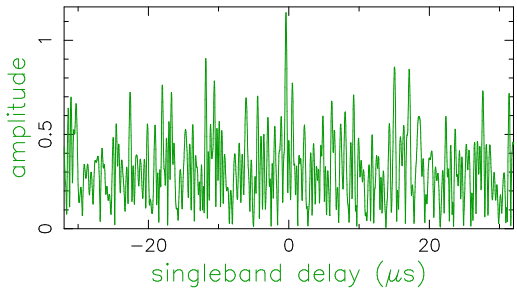
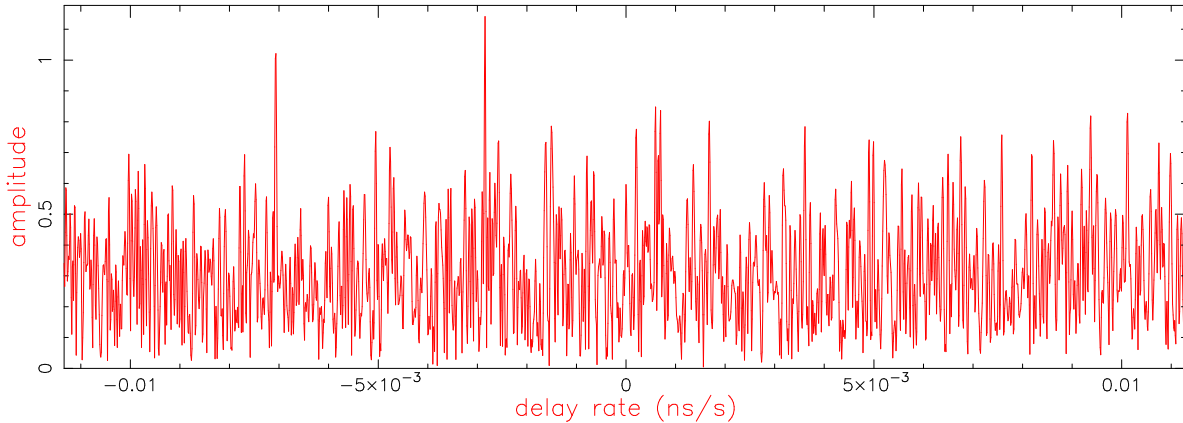
86227.00
-60.2
0.4
1562.8
U/L 585/0
b 0
m 0
b:m 0:0
b:m 0:0
b 1000
m 1000
b W03UL
m W03UL

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)	-9.74454393600E+02	Apriori delay (usec)	-9.74992920993E+02	Resid mbdelay (usec)	6.97633E-06	+/-	5.3E-03
Sband delay (usec)	-9.74454396993E+02	Apriori clock (usec)	-1.8708057E+01	Resid sbdelay (usec)	5.38524E-01	+/-	5.3E-03
Phase delay (usec)	-9.74992922936E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-1.94289E-06	+/-	4.3E-07
Delay rate (us/s)	-8.25897181830E-01	Apriori rate (us/s)	-8.25899222296E-01	Resid rate (us/s)	2.04047E-06	+/-	2.5E-09
Total phase (deg)	-83.9	Apriori accel (us/s/s)	1.43285787007E-05	Resid phase (deg)	-6.7	+/-	13.3

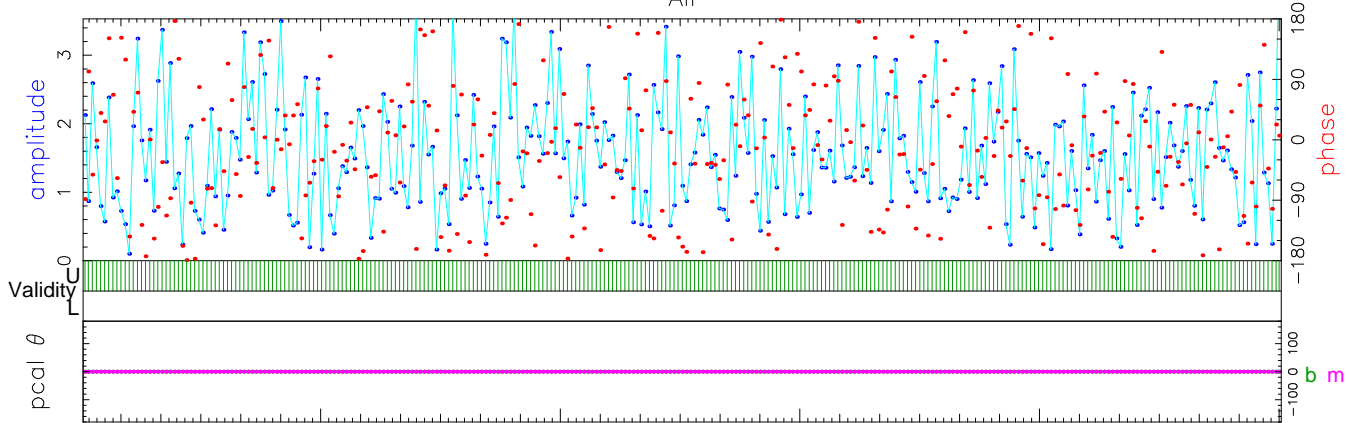
ph/seg (deg)	RMS 91.2	Theor. 113.4	Amplitude Search (2048X8)	1.211 +/- 0.140	1.176	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	80.9	198.0	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.552	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.6	Inc. frq. avg.	1.202	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
b: az 184.4 el 53.5 pa 2.8			m: az 99.3 el 57.2 pa -71.6				ion window (TEC) 0.00 0.00

Fringe quality 8



SNR 8.3
Int time 298.973
Amp 1.177
Phase 333.3
PFD 1.7e-09
Delays (us)
SBD -0.401825
MBD -0.000007
Fringe rate (Hz)
-0.245320
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052006
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
-11.8
0.3
1517.7
U/L 585/0
b 0
m 0
b:m 0:0
b:m 0:0
b 1000
m 1000
b W03UR
m W03UR

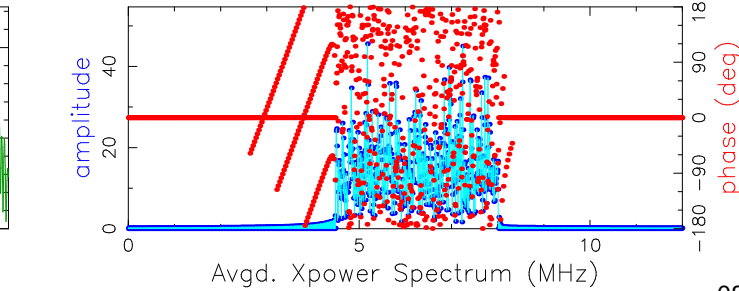
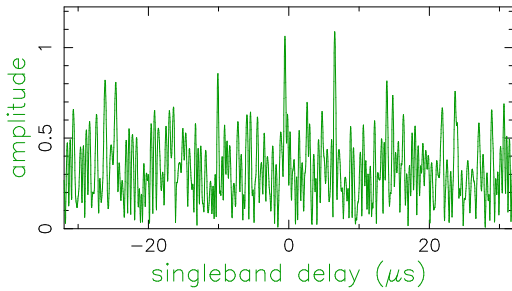
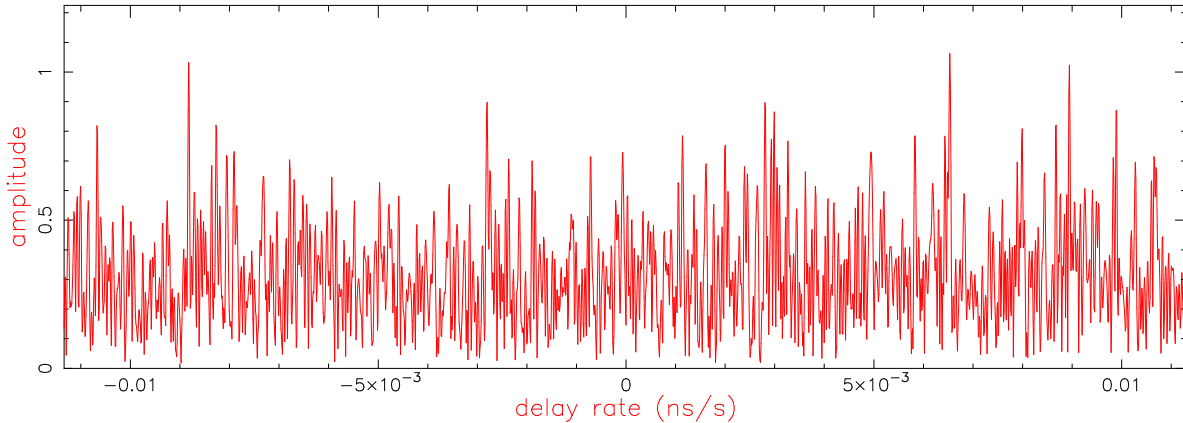
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.75394750881E+02	Apriori delay (usec)	-9.74992920993E+02	Resid mbdelay (usec)	-6.79249E-06	+/-	5.5E-03
Sband delay (usec)	-9.75394746327E+02	Apriori clock (usec)	-1.8708057E+01	Resid sbdelay (usec)	-4.01825E-01	+/-	5.5E-03
Phase delay (usec)	-9.74992921373E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-3.79608E-07	+/-	4.5E-07
Delay rate (us/s)	-8.25902070215E-01	Apriori rate (us/s)	-8.25899222296E-01	Resid rate (us/s)	-2.84792E-06	+/-	2.6E-09
Total phase (deg)	256.2	Apriori accel (us/s/s)	1.43285787007E-05	Resid phase (deg)	333.3	+/-	13.8

ph/seg (deg)	RMS 91.9	Theor. 118.1	Amplitude Search (2048X8)	1.177 +/- 0.142	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	80.6	206.1	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	6.9	Inc. seg. avg.	0.516	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.8	12.0	Inc. frq. avg.	1.163	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

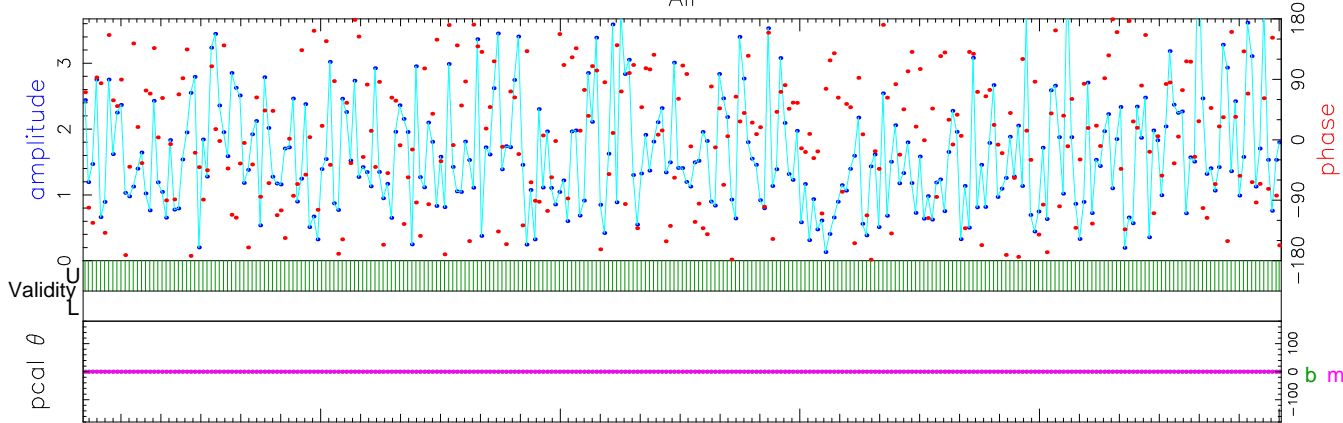
b: az 184.4 el 53.5 pa 2.8 m: az 99.3 el 57.2 pa -71.6 u,v (fr/asec) 4840.574 3743.817 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/bm..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/bm.W.31.1T5H1A

Fringe quality 8



SNR 7.7
Int time 298.973
Amp 1.225
Phase 28.4
PFD 2.0e-07
Delays (us)
SBD -0.551328
MBD 0.000007
Fringe rate (Hz)
0.562353
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052008
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



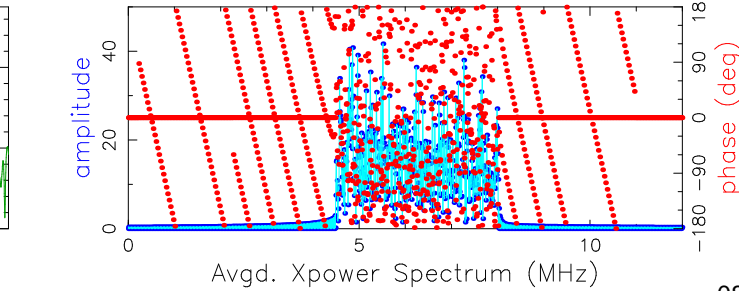
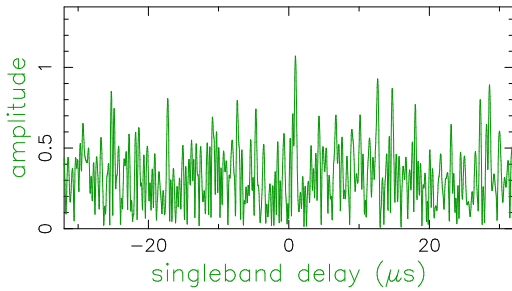
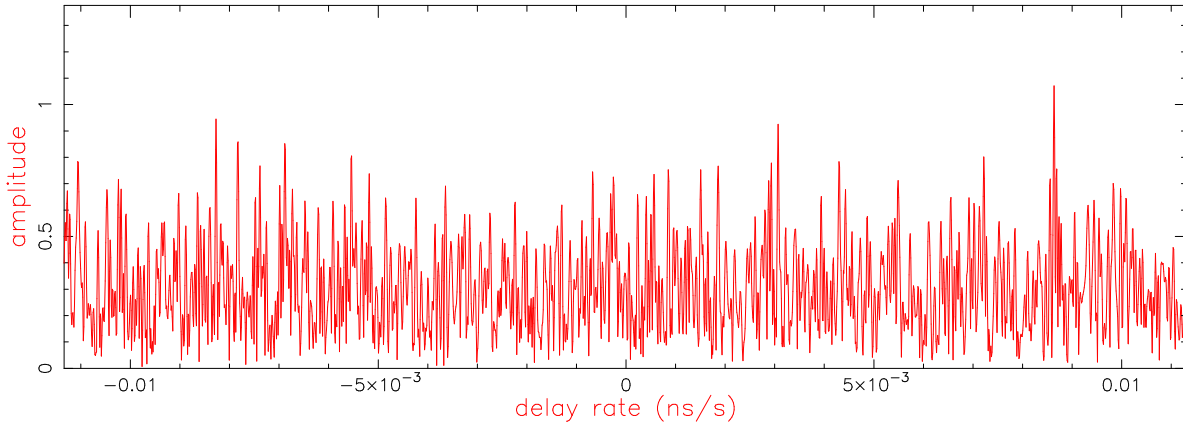
86227.00
40.6
0.4
1850.7
U/L 585/0
b 0
m 0
b:m 0:0
b:m 0:0
b 1000
m 1000
b W03UL
m W03UR

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)	-9.75544249767E+02	Apriori delay (usec)	-9.74992920993E+02	Resid mbdelay (usec)	6.65471E-06	+/-	6.0E-03
Sband delay (usec)	-9.75544248993E+02	Apriori clock (usec)	-1.8708057E+01	Resid sbdelay (usec)	-5.51328E-01	+/-	6.0E-03
Phase delay (usec)	-9.74992919685E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	1.30798E-06	+/-	4.8E-07
Delay rate (us/s)	-8.25892693937E-01	Apriori rate (us/s)	-8.25899222296E-01	Resid rate (us/s)	6.52836E-06	+/-	2.8E-09
Total phase (deg)	311.2	Apriori accel (us/s/s)	1.43285787007E-05	Resid phase (deg)	28.4	+/-	14.9

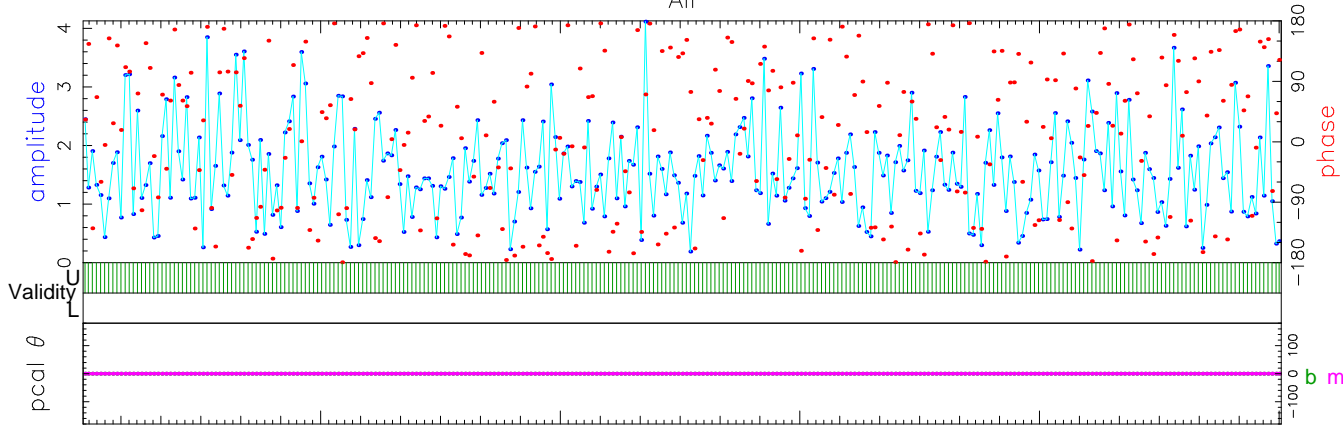
ph/seg (deg)	RMS 95.0	Theor. 127.3	Amplitude Search (2048X8)	1.225 +/- 0.159	1.041	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	96.6	222.1	Interp.	0.000	0.000E+00	0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.4	Inc. seg. avg.	0.537	2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.8	13.0	Inc. frq. avg.	1.212	Sample rate(MISamp/s): 24		dr window (ns/s) -0.011 0.011
b: az 184.4 el 53.5 pa 2.8			m: az 99.3 el 57.2 pa -71.6		Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

Fringe quality 8



SNR 7.8
Int time 298.973
Amp 1.376
Phase -200.8
PFD 1.4e-07
Delays (us)
SBD 0.941767
MBD 0.000007
Fringe rate (Hz) 0.742936
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052010
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
135.1
0.4
1582.2
U/L 585/0
b 0
m 0
b:m 0:0
b:m 0:0
b 1000
m 1000
b W03UR
m W03UL

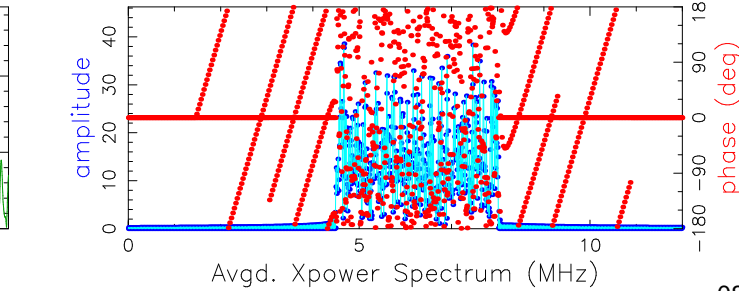
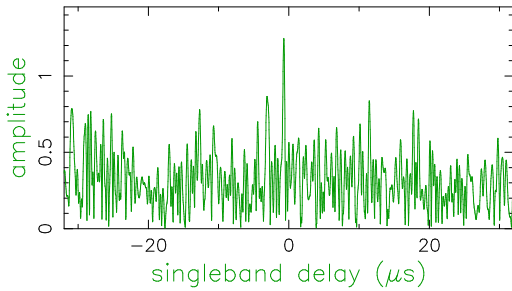
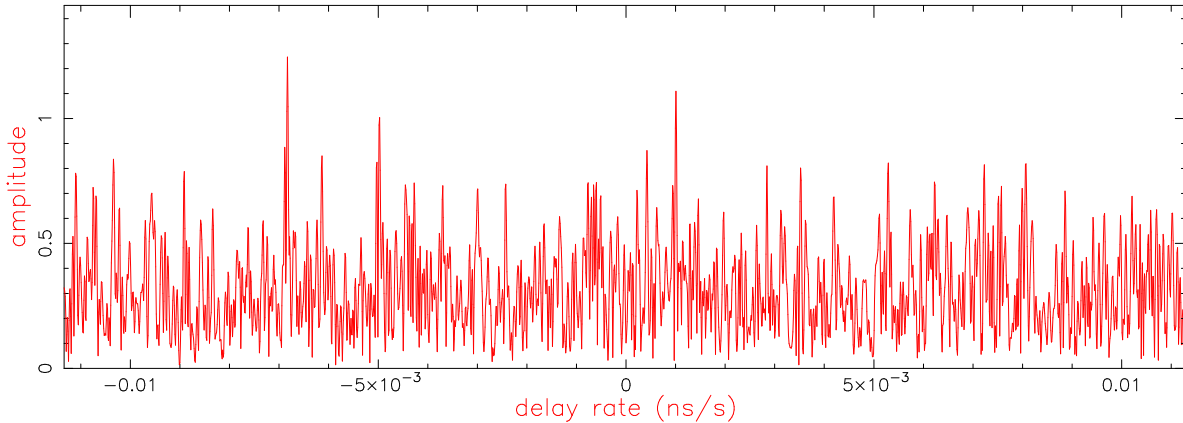
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.74051155365E+02	Apriori delay (usec)	-9.74992920993E+02	Resid mbdelay (usec)	7.24669E-06	+/-	5.9E-03
Sband delay (usec)	-9.74051154327E+02	Apriori clock (usec)	-1.8708057E+01	Resid sbdelay (usec)	9.41767E-01	+/-	5.9E-03
Phase delay (usec)	-9.74992916638E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	4.35585E-06	+/-	4.8E-07
Delay rate (us/s)	-8.25890597542E-01	Apriori rate (us/s)	-8.25899222296E-01	Resid rate (us/s)	8.62475E-06	+/-	2.8E-09
Total phase (deg)	-278.0	Apriori accel (us/s/s)	1.43285787007E-05	Resid phase (deg)	-200.8	+/-	14.8

ph/seg (deg)	RMS 93.6	Theor. 126.5	Amplitude Search (2048X8)	1.376 +/- 0.177	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	86.3	220.8	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	7.4	Inc. seg. avg.	0.590	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	12.9	Inc. frq. avg.	1.364	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

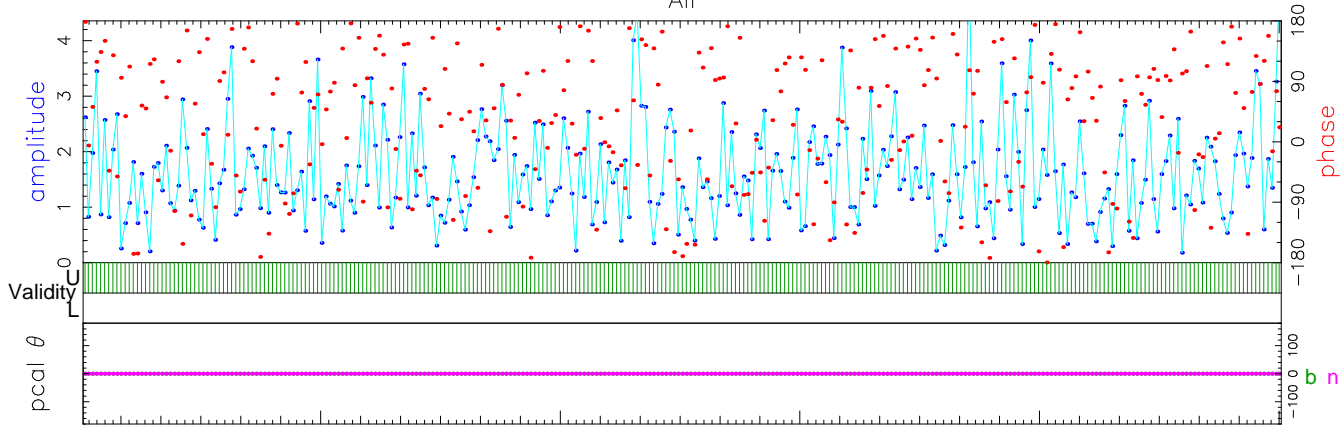
b: az 184.4 el 53.5 pa 2.8 m: az 99.3 el 57.2 pa -71.6 u,v (fr/asec) 4840.574 3743.817 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/bm..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/bm.W.63.1T5H1A

Fringe quality 8



SNR 9.0
Int time 298.973
Amp 1.453
Phase 47.1
PFD 3.4e-12
Delays (us)
SBD -0.711087
MBD -0.000006
Fringe rate (Hz)
-0.587840
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052005
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



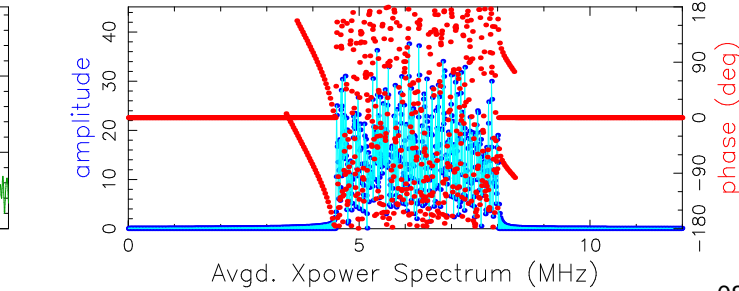
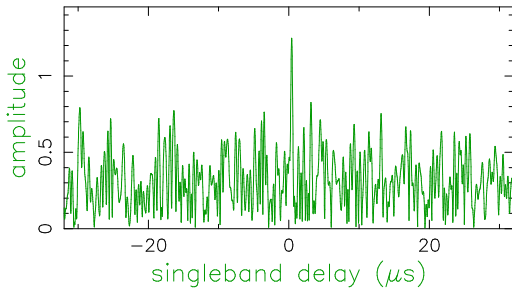
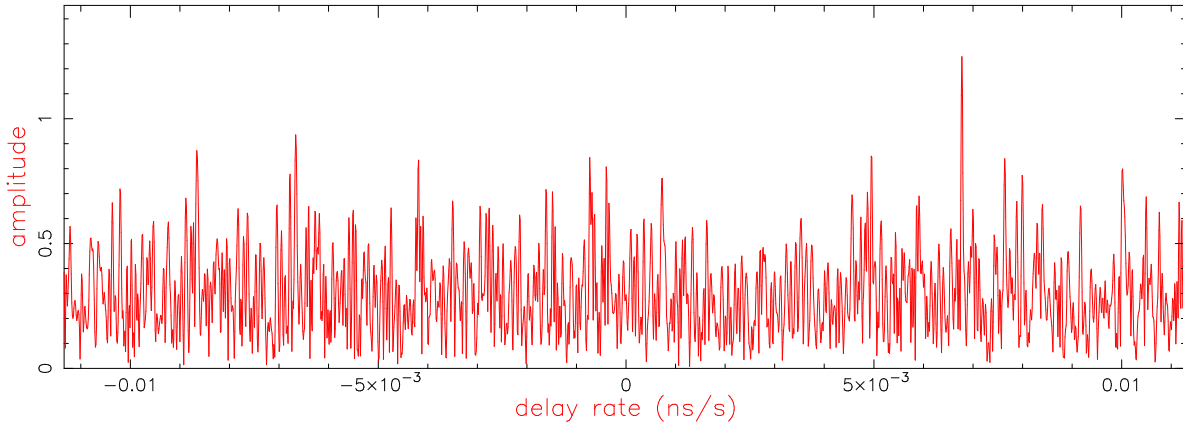
86227.00
96.2
0.4
1502.9
U/L 585/0
b 0
n 0
b:n 0:0
b:n 0:0
b 1000
n 1000
b W03UL
n W03UL

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)	9.86734158722E+02	Apriori delay (usec)	9.87445241734E+02	Resid mbdelay (usec)	-6.43437E-06	+/-	5.1E-03
Sband delay (usec)	9.86734155067E+02	Apriori clock (usec)	-8.4750576E+00	Resid sbdelay (usec)	-7.11087E-01	+/-	5.1E-03
Phase delay (usec)	9.87445244835E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	3.10090E-06	+/-	4.1E-07
Delay rate (us/s)	5.32753698027E-01	Apriori rate (us/s)	5.32760522271E-01	Resid rate (us/s)	-6.82424E-06	+/-	2.4E-09
Total phase (deg)	91.3	Apriori accel (us/s/s)	-3.50333111593E-06	Resid phase (deg)	47.1	+/-	12.7

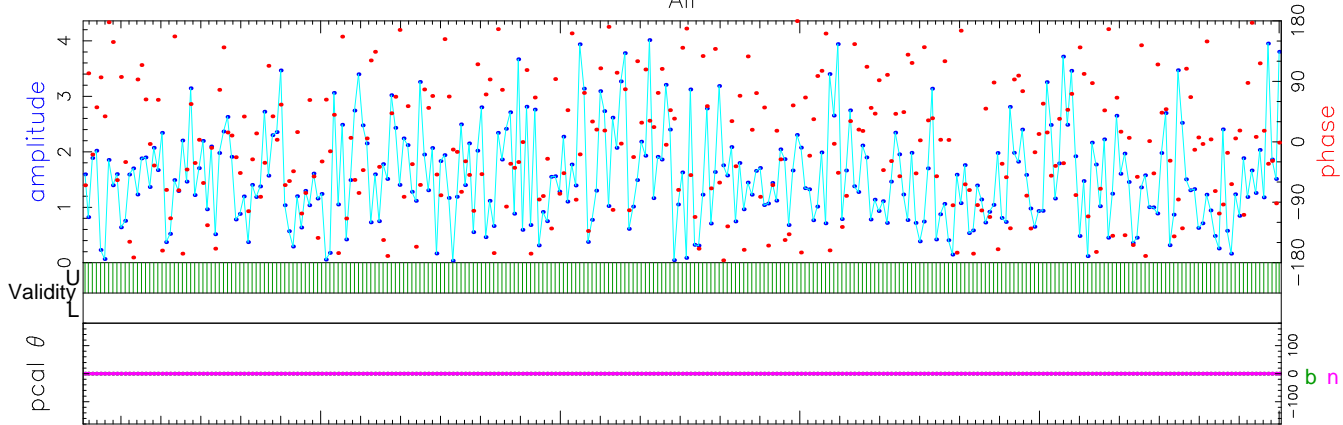
ph/seg (deg)	RMS 92.0	Theor. 108.7	Amplitude Search (2048X8)	1.453 +/- 0.161	1.197	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.2	189.8	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.4	Inc. seg. avg.	0.675	Sample rate(MSamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.1	Inc. frq. avg.	1.444	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
b: az 184.4 el 53.5 pa 2.8		n: az 230.7 el 49.7 pa 36.0		u,v (fr/asec) -3120.725 629.604			ion window (TEC) 0.00 0.00

Fringe quality 8



SNR 9.0
Int time 298.973
Amp 1.453
Phase -226.5
PFD 2.8e-12
Delays (us)
SBD 0.409881
MBD 0.000006
Fringe rate (Hz)
0.583485
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052009
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



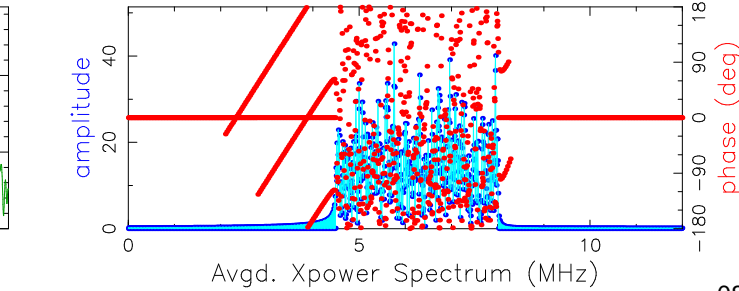
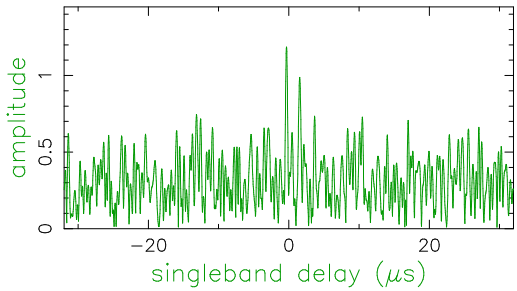
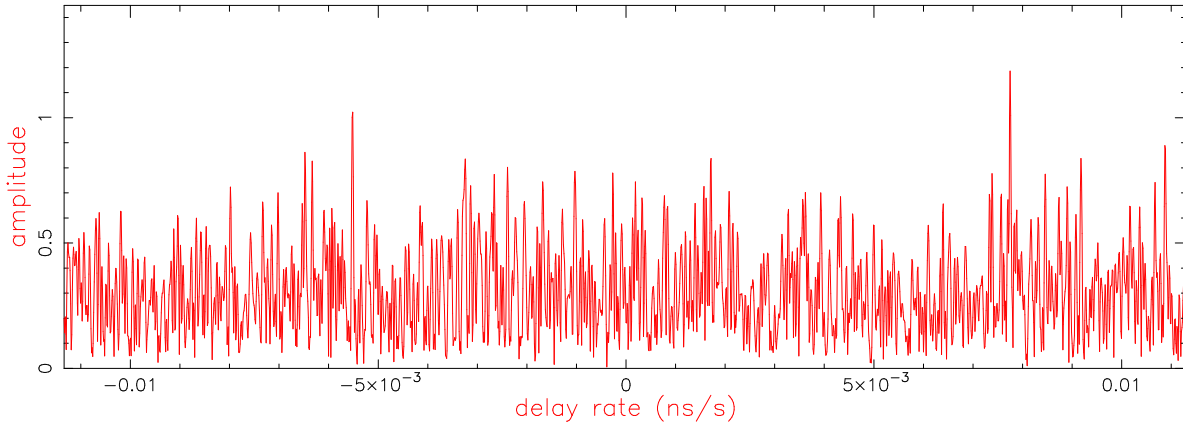
86227.00
10.7
0.4
1556.7
U/L 585/0
b 0
n 0
b:n 0:0
b:n 0:0
b 1000
n 1000
b W03UR
n W03UR

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)	9.87855119186E+02	Apriori delay (usec)	9.87445241734E+02	Resid mbdelay (usec)	5.83437E-06	+/-	5.1E-03
Sband delay (usec)	9.87855123067E+02	Apriori clock (usec)	-8.4750576E+00	Resid sbdelay (usec)	4.09881E-01	+/-	5.1E-03
Phase delay (usec)	9.87445242079E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	3.45622E-07	+/-	4.1E-07
Delay rate (us/s)	5.32767295956E-01	Apriori rate (us/s)	5.32760522271E-01	Resid rate (us/s)	6.77369E-06	+/-	2.4E-09
Total phase (deg)	-182.2	Apriori accel (us/s/s)	-3.50333111593E-06	Resid phase (deg)	-226.5	+/-	12.7

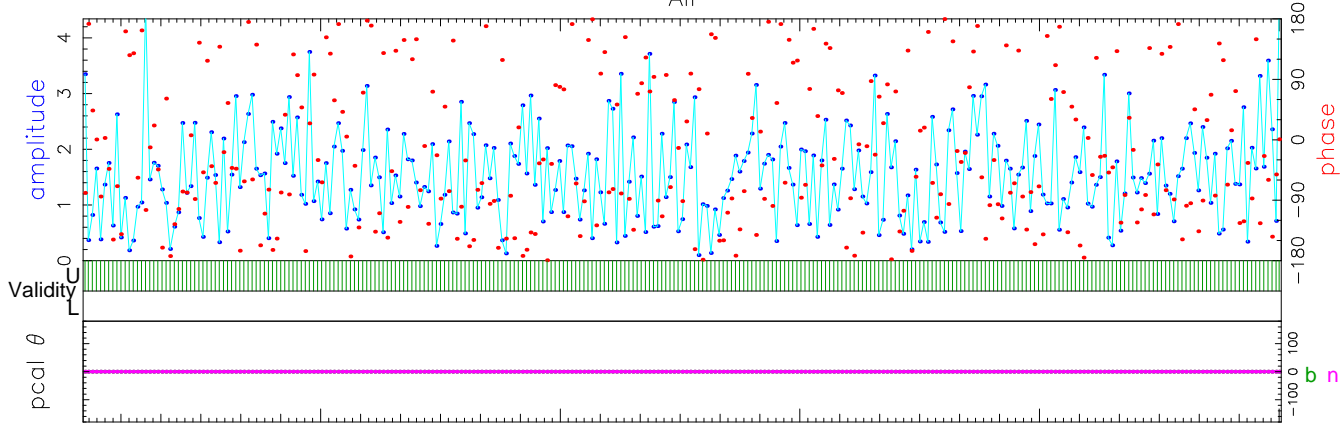
ph/seg (deg)	RMS 92.6	Theor. 108.4	Amplitude Search (2048X8)	1.453 +/- 0.161	1.234	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	74.4	189.3	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.3	Inc. seg. avg.	0.648	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.1	Inc. frq. avg.	1.443	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
b: az 184.4 el 53.5 pa 2.8		n: az 230.7 el 49.7 pa 36.0		u,v (fr/asec) -3120.725 629.604			ion window (TEC) 0.00 0.00

Fringe quality 8



SNR 8.6
Int time 298.973
Amp 1.448
Phase 142.9
PFD 1.6e-10
Delays (us)
SBD -0.329884
MBD 0.000004
Fringe rate (Hz)
0.666790
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052010
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
-109.1
0.4
1521.2
U/L 585/0
b 0
n 0
b:n 0:0
b:n 0:0
b 1000
n 1000
b W03UL
n W03UR

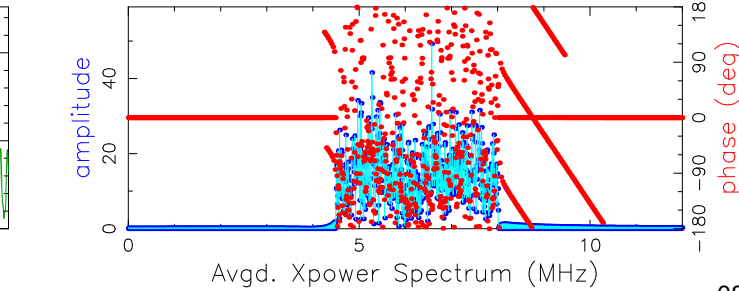
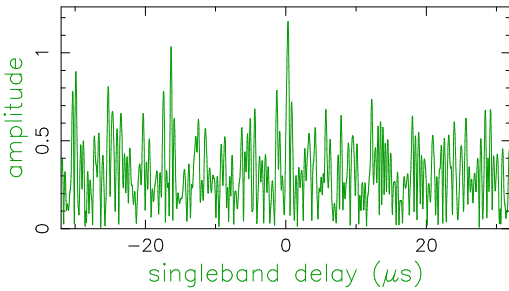
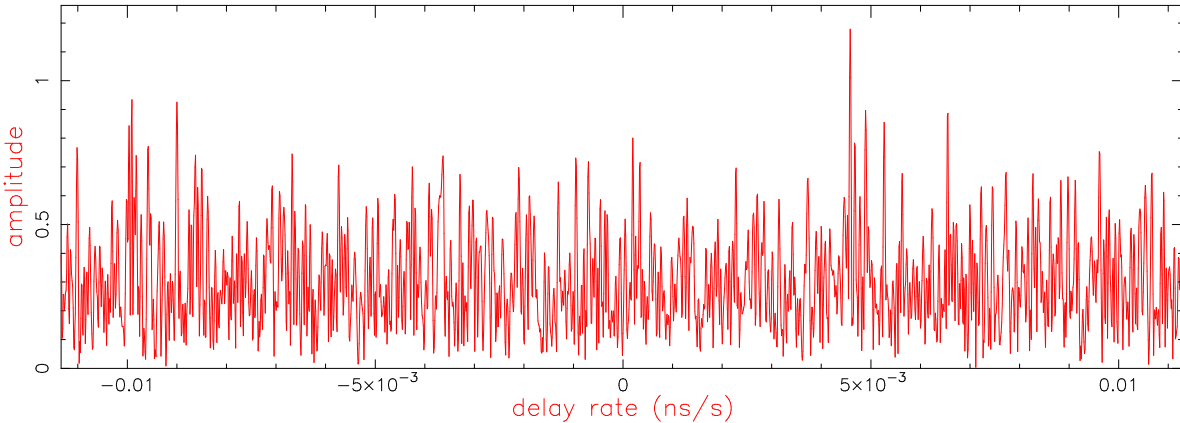
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	9.87115361021E+02	Apriori delay (usec)	9.87445241734E+02	Resid mbdelay (usec)	4.35852E-06	+/-	5.4E-03
Sband delay (usec)	9.87115357734E+02	Apriori clock (usec)	-8.4750576E+00	Resid sbdelay (usec)	-3.29884E-01	+/-	5.4E-03
Phase delay (usec)	9.87445238217E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-3.51687E-06	+/-	4.3E-07
Delay rate (us/s)	5.32768263037E-01	Apriori rate (us/s)	5.32760522271E-01	Resid rate (us/s)	7.74077E-06	+/-	2.5E-09
Total phase (deg)	187.2	Apriori accel (us/s/s)	-3.50333111593E-06	Resid phase (deg)	142.9	+/-	13.3

ph/seg (deg)	RMS 93.6	Theor. 114.2	Amplitude Search (2048X8)	1.448 +/- 0.169	1.174	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	76.3	199.4	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	6.7	Inc. seg. avg.	0.634	Bits/sample: 2x2	ion window (TEC)	0.00 0.00
amp/frq (%)	70.7	11.6	Inc. frq. avg.	1.438	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011

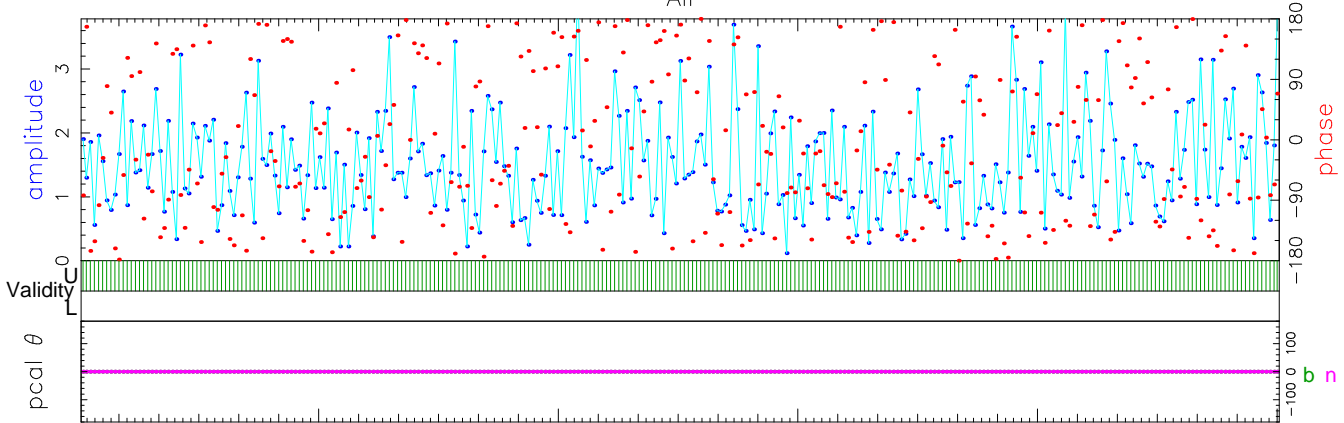
b: az 184.4 el 53.5 pa 2.8 n: az 230.7 el 49.7 pa 36.0 u,v (fr/asec) -3120.725 629.604 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/bn..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/bn.W.70.1T5H1A

Fringe quality 8



SNR 8.5
Int time 298.973
Amp 1.262
Phase -186.0
PFD 2.4e-10
Delays (us)
SBD 0.311725
MBD 0.000007
Fringe rate (Hz)
0.394066
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052011
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



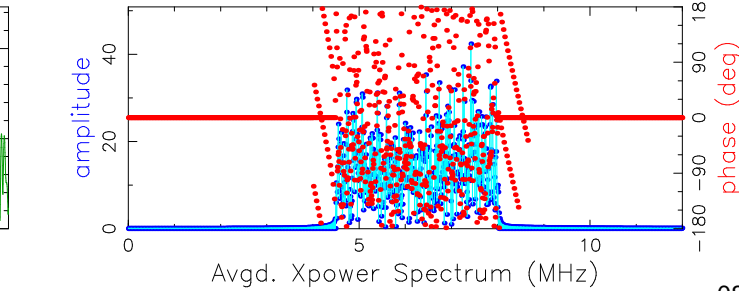
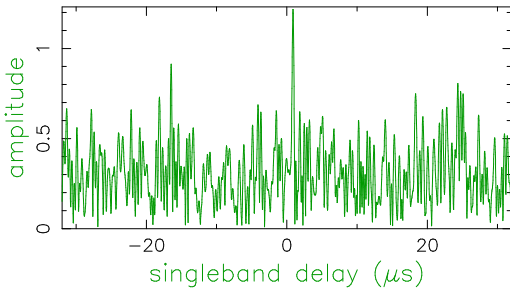
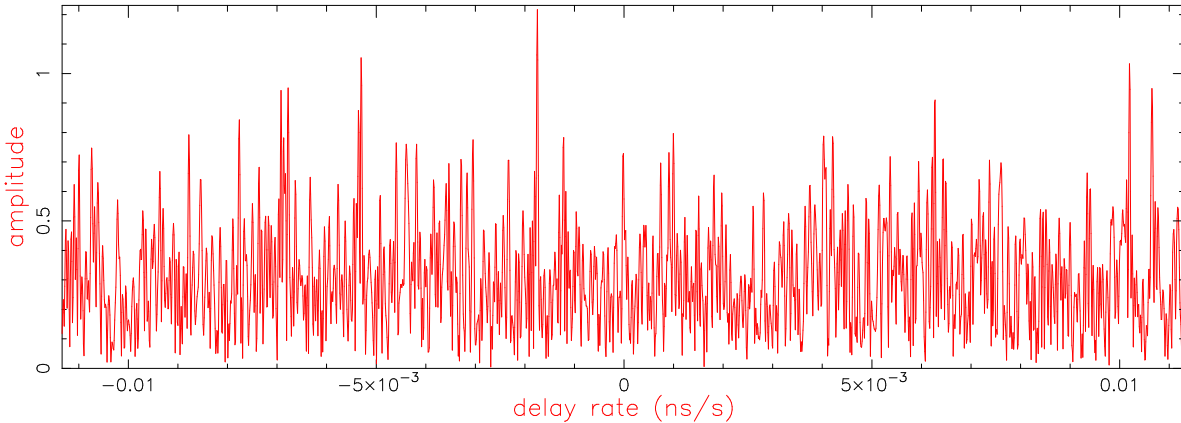
86227.00
-142.8
0.4
1551.9
U/L 585/0
b 0
n 0
b:n 0:0
b:n 0:0
b 1000
n 1000
b W03UR
n W03UL

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)	9.87756972202E+02	Apriori delay (usec)	9.87445241734E+02	Resid mbdelay (usec)	6.76215E-06	+/-	5.4E-03
Sband delay (usec)	9.87756967067E+02	Apriori clock (usec)	-8.4750576E+00	Resid sbdelay (usec)	3.11725E-01	+/-	5.4E-03
Phase delay (usec)	9.87445237129E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-4.60425E-06	+/-	4.3E-07
Delay rate (us/s)	5.32765096989E-01	Apriori rate (us/s)	5.32760522271E-01	Resid rate (us/s)	4.57472E-06	+/-	2.5E-09
Total phase (deg)	-141.7	Apriori accel (us/s/s)	-3.50333111593E-06	Resid phase (deg)	-186.0	+/-	13.4

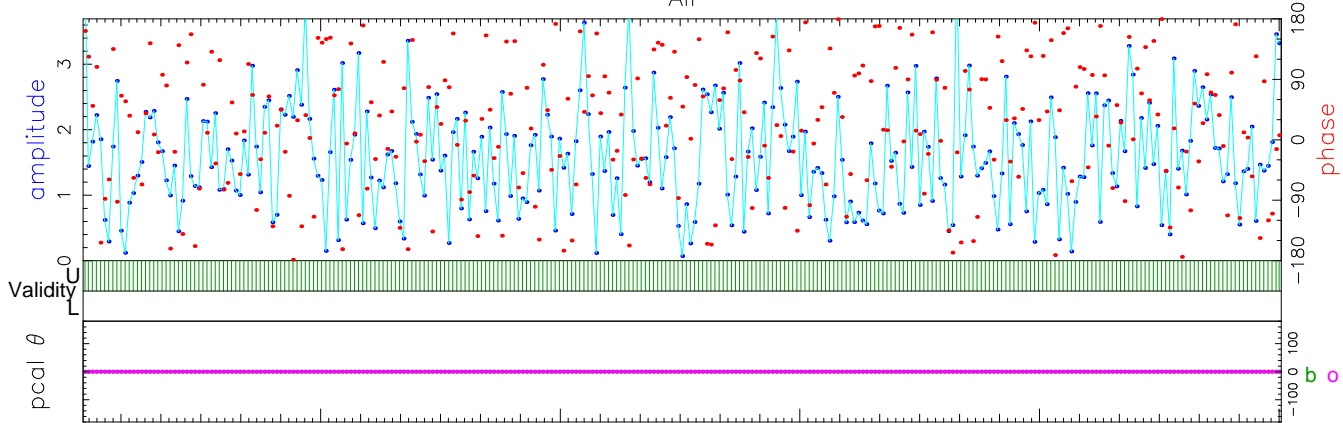
ph/seg (deg)	RMS 92.0	Theor. 114.9	Amplitude Search (2048X8)	1.262 +/- 0.148	1.163	1.163	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	73.5	200.6	Interp.	0.000	0.000	0.000E+00	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.541	0.541	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.	1.253	1.253	1.253	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

Fringe quality 8



SNR 8.8
Int time 298.973
Amp 1.231
Phase -314.0
PFD 1.9e-11
Delays (us)
SBD 0.885224
MBD -0.000005
Fringe rate (Hz)
-0.150601
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052004
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



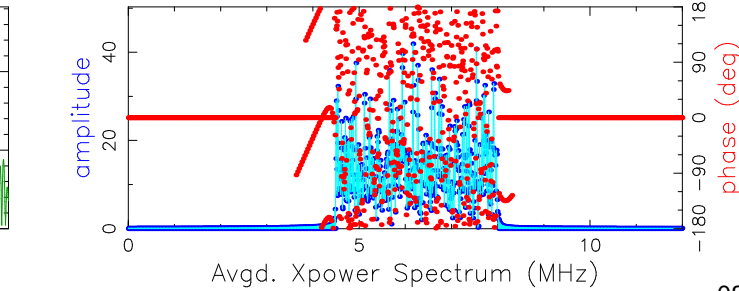
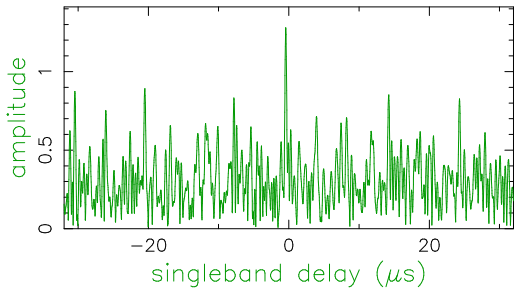
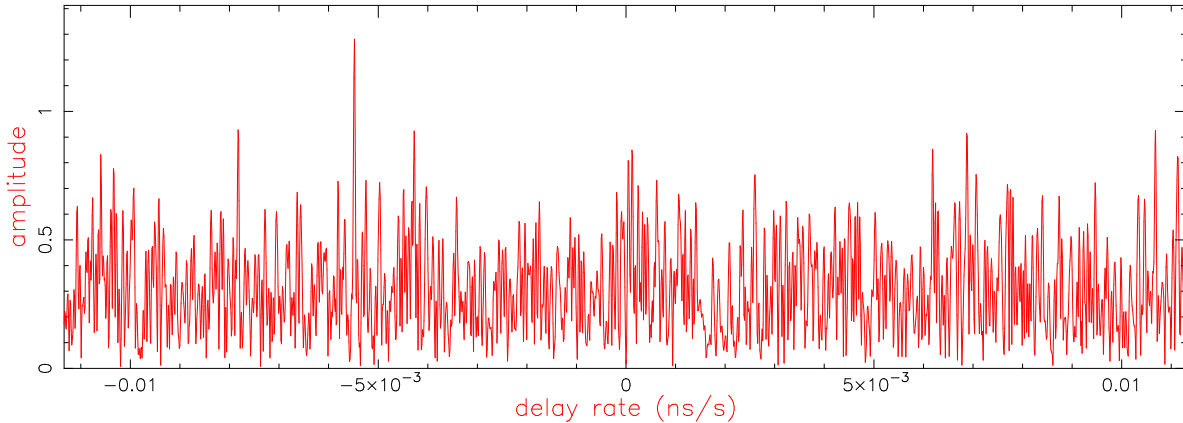
86227.00
51.5
0.4
1579.5
U/L 585/0
b 0
o 0
b:o 0:0
b:o 0:0
b 1000
o 1000
b W03UL
o W03UL

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)	-2.05178648725E+03	Apriori delay (usec)	-2.05267171565E+03	Resid mbdelay (usec)	-4.76083E-06	+/-	5.2E-03
Sband delay (usec)	-2.05178649165E+03	Apriori clock (usec)	-6.7460575E+00	Resid sbdelay (usec)	8.85224E-01	+/-	5.2E-03
Phase delay (usec)	-2.05267171399E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	1.66129E-06	+/-	4.2E-07
Delay rate (us/s)	4.17483813616E-02	Apriori rate (us/s)	4.17501296857E-02	Resid rate (us/s)	-1.74832E-06	+/-	2.4E-09
Total phase (deg)	-165.1	Apriori accel (us/s/s)	1.40632578495E-05	Resid phase (deg)	-314.0	+/-	13.0

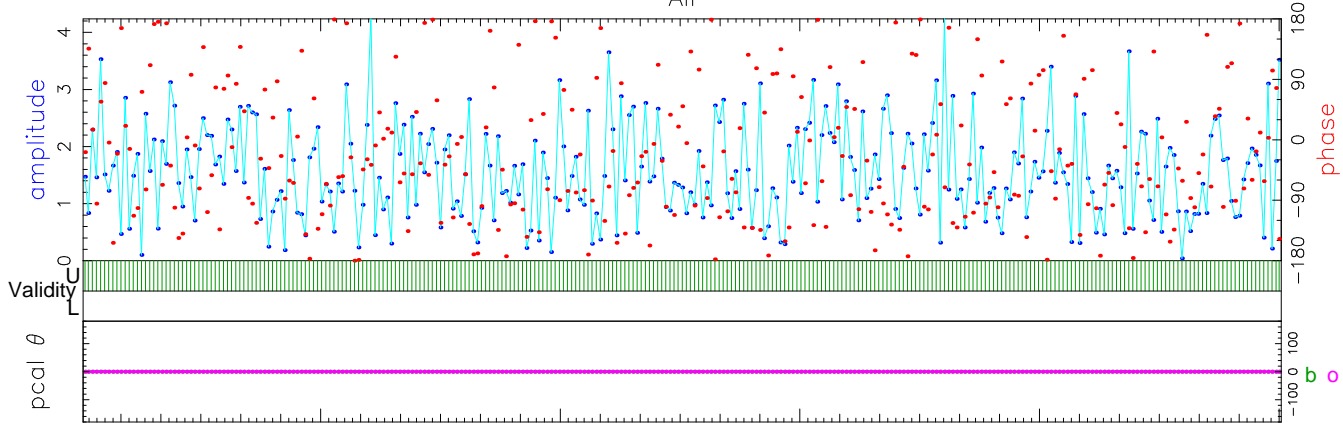
ph/seg (deg)	RMS 91.7	Theor. 111.1	Amplitude Search (2048X8)	1.231 +/- 0.140	1.205	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.7	193.9	Interp.	0.000	1.221	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Inc. seg. avg.	0.559		Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	11.3	Inc. frq. avg.	1.221		Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
				b: az 184.4 el 53.5 pa 2.8	o: az 189.2 el 64.2 pa 8.2	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				u,v (fr/asec) -229.409 1440.195		nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

Fringe quality 8



SNR 9.3
Int time 298.973
Amp 1.413
Phase 230.8
PFD 3.4e-13
Delays (us)
SBD -0.434801
MBD -0.000007
Fringe rate (Hz)
-0.471617
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052005
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
-66.9
0.4
1516.1
U/L 585/0
b 0
o 0
b:o 0:0
b:o 0:0
b 1000
o 1000
b W03UR
o W03UR

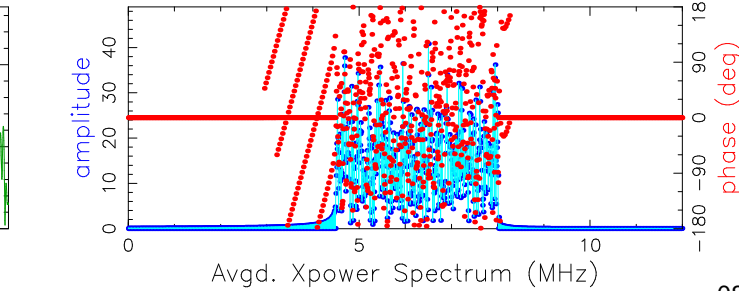
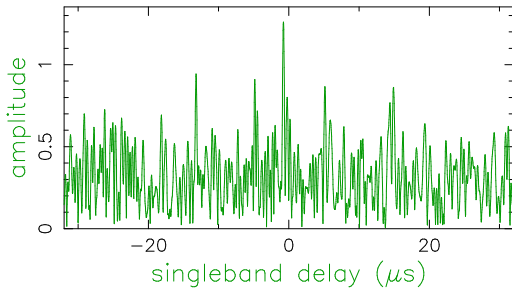
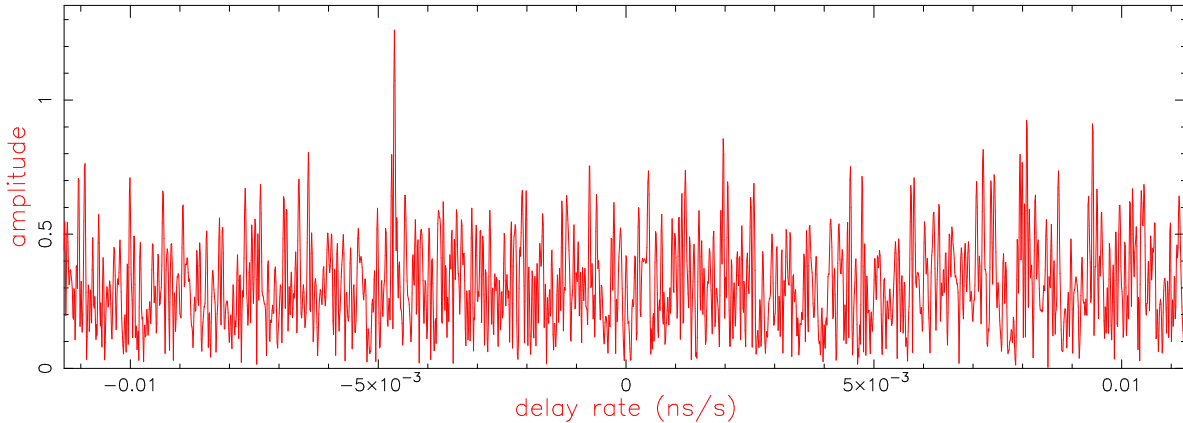
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.05310651679E+03	Apriori delay (usec)	-2.05267171565E+03	Resid mbdelay (usec)	-6.92693E-06	+/-	5.0E-03
Sband delay (usec)	-2.05310651699E+03	Apriori clock (usec)	-6.7460575E+00	Resid sbdelay (usec)	-4.34801E-01	+/-	5.0E-03
Phase delay (usec)	-2.05267171781E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-2.15863E-06	+/-	4.0E-07
Delay rate (us/s)	4.17446546773E-02	Apriori rate (us/s)	4.17501296857E-02	Resid rate (us/s)	-5.47501E-06	+/-	2.3E-09
Total phase (deg)	19.7	Apriori accel (us/s/s)	1.40632578495E-05	Resid phase (deg)	230.8	+/-	12.4

ph/seg (deg)	RMS 91.2	Theor. 105.8	Amplitude Search (2048X8)	1.413 +/- 0.152	1.246	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	68.8	184.6	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	6.2	Inc. seg. avg.	0.639	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	10.8	Inc. frq. avg.	1.404	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
b: az 184.4 el 53.5 pa 2.8			o: az 189.2 el 64.2 pa 8.2				ion window (TEC) 0.00 0.00

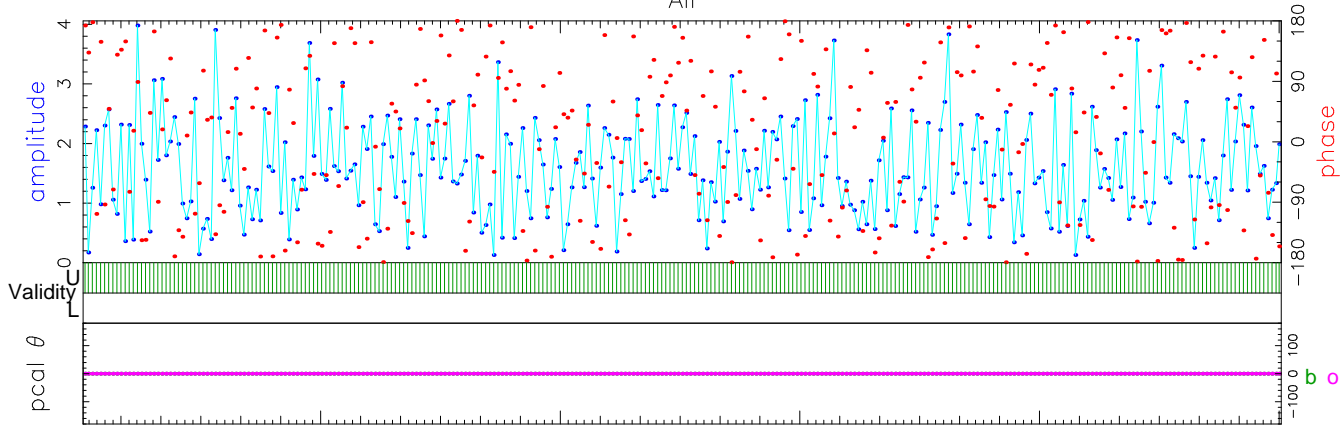
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/bo..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/bo.W.18.1T5H1A simultaneous interpolator

Fringe quality 8



SNR 9.1
Int time 298.973
Amp 1.353
Phase 128.4
PFD 1.3e-12
Delays (us)
SBD -0.769295
MBD -0.000007
Fringe rate (Hz)
-0.401735
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052007
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
154.5
0.4
1500.1
U/L 585/0
b 0
o 0
b:o 0:0
b:o 0:0
b 1000
o 1000
b W03UL
o W03UR

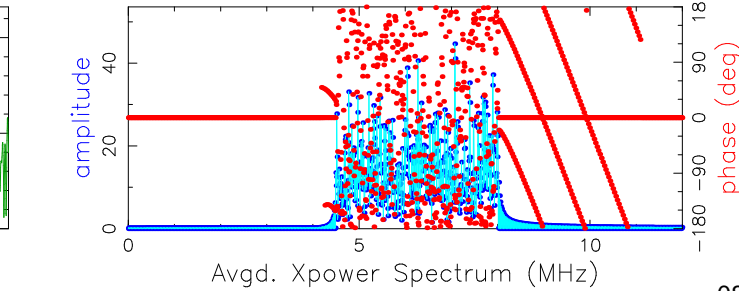
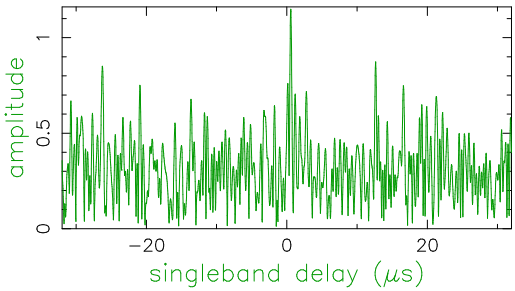
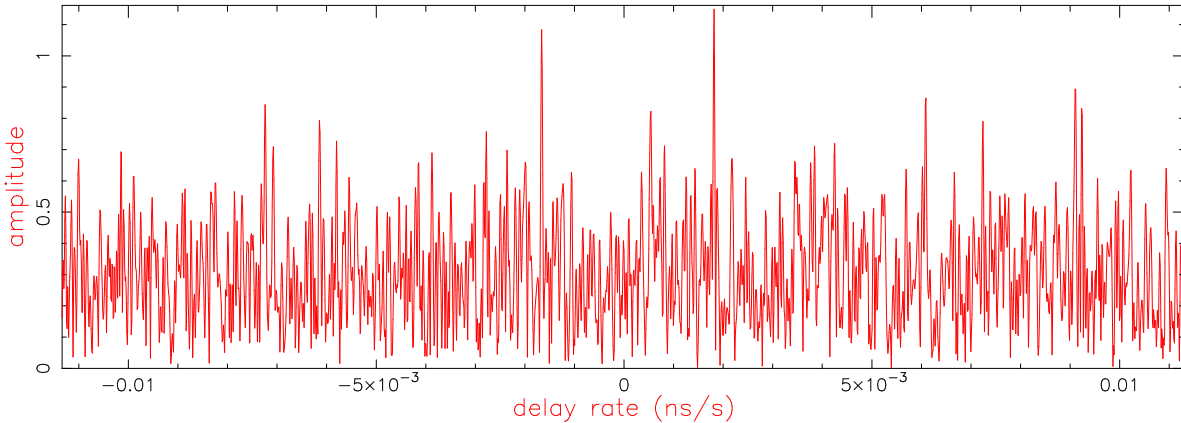
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-2.05344100579E+03	Apriori delay (usec)	-2.05267171565E+03	Resid mbdelay (usec)	-6.73756E-06	+/-	5.0E-03
Sband delay (usec)	-2.05344101032E+03	Apriori clock (usec)	-6.7460575E+00	Resid sbdelay (usec)	-7.69295E-01	+/-	5.0E-03
Phase delay (usec)	-2.05267171067E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	4.98198E-06	+/-	4.0E-07
Delay rate (us/s)	4.17454659446E-02	Apriori rate (us/s)	4.17501296857E-02	Resid rate (us/s)	-4.66374E-06	+/-	2.3E-09
Total phase (deg)	277.3	Apriori accel (us/s/s)	1.40632578495E-05	Resid phase (deg)	128.4	+/-	12.6

ph/seg (deg)	RMS 92.1	Theor. 107.5	Amplitude Search (2048X8)	1.237	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	68.7	187.6	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	6.3	Inc. seg. avg.	0.618	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	11.0	Inc. frq. avg.	1.345	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

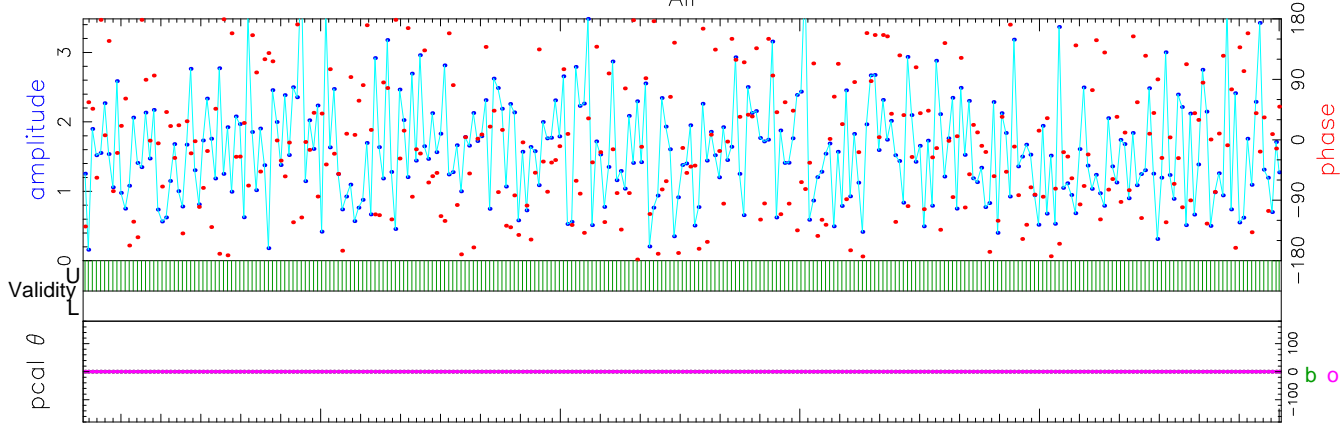
b: az 184.4 el 53.5 pa 2.8 o: az 189.2 el 64.2 pa 8.2 u,v (fr/asec) -229.409 1440.195 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/bo..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/bo.W.33.1T5H1A

Fringe quality 8



SNR 8.3
Int time 298.973
Amp 1.162
Phase -296.5
PFD 1.5e-09
Delays (us)
SBD 0.559731
MBD 0.000006
Fringe rate (Hz)
0.156502
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052008
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



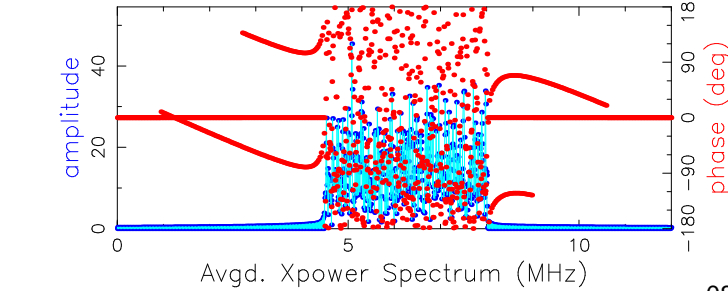
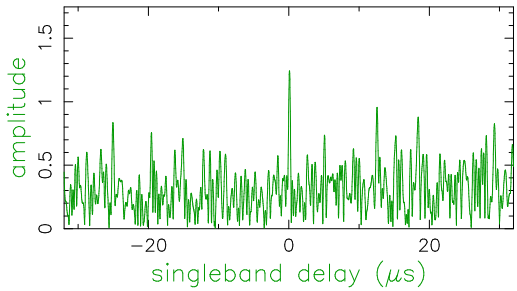
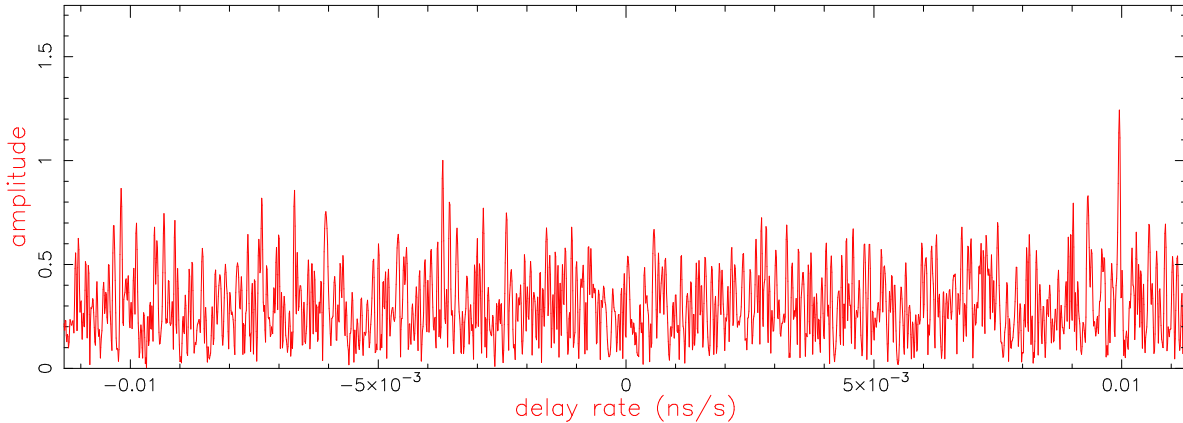
86227.00
-46.1
0.3
1563.9
U/L 585/0
b 0
o 0
b:o 0:0
b:o 0:0
b 1000
o 1000
b W03UR
o W03UL

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)	-2.05211198970E+03	Apriori delay (usec)	-2.05267171565E+03	Resid mbdelay (usec)	5.68203E-06	+/-	5.5E-03
Sband delay (usec)	-2.05211198499E+03	Apriori clock (usec)	-6.7460575E+00	Resid sbdelay (usec)	5.59731E-01	+/-	5.5E-03
Phase delay (usec)	-2.05267171714E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-1.48527E-06	+/-	4.4E-07
Delay rate (us/s)	4.17519465181E-02	Apriori rate (us/s)	4.17501296857E-02	Resid rate (us/s)	1.81683E-06	+/-	2.6E-09
Total phase (deg)	-147.6	Apriori accel (us/s/s)	1.40632578495E-05	Resid phase (deg)	-296.5	+/-	13.8

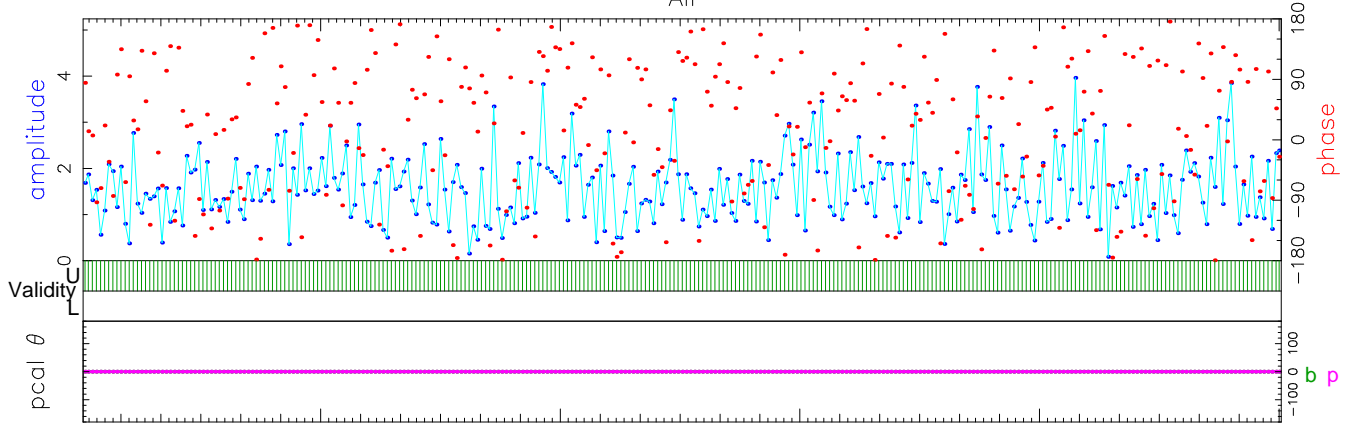
ph/seg (deg)	RMS 93.9	Theor. 117.9	Amplitude Search (2048X8)	1.162 +/- 0.140	1.139	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	76.7	205.7	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.519	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.0	Inc. frq. avg.	1.153	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
b: az 184.4 el 53.5 pa 2.8		o: az 189.2 el 64.2 pa 8.2		u,v (fr/asec) -229.409 1440.195		ion window (TEC) 0.00 0.00	

Fringe quality 8



SNR 9.0
Int time 298.973
Amp 1.747
Phase -58.9
PFD 3.8e-12
Delays (us)
SBD 0.096151
MBD 0.000004
Fringe rate (Hz)
0.856520
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052005
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
72.3
0.5
1541.6
U/L 585/0
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)	-1.96686305133E+03	Apriori delay (usec)	-1.96695919732E+03	Resid mbdelay (usec)	4.41059E-06	+/-	5.1E-03
Sband delay (usec)	-1.96686304665E+03	Apriori clock (usec)	-8.5220585E+00	Resid sbdelay (usec)	9.61507E-02	+/-	5.1E-03
Phase delay (usec)	-1.96695919499E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	2.32991E-06	+/-	4.1E-07
Delay rate (us/s)	2.64838559744E-01	Apriori rate (us/s)	2.64828616390E-01	Resid rate (us/s)	9.94335E-06	+/-	2.4E-09
Total phase (deg)	-151.5	Apriori accel (us/s/s)	1.45416665551E-05	Resid phase (deg)	-58.9	+/-	12.7

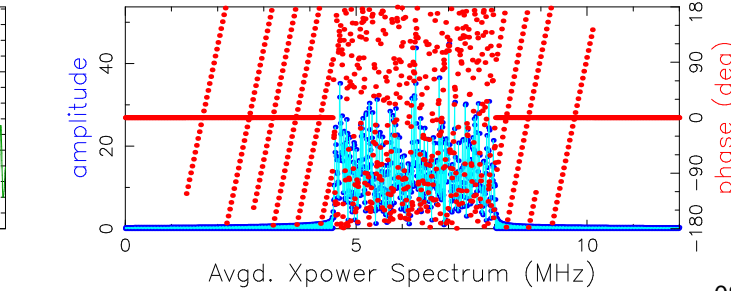
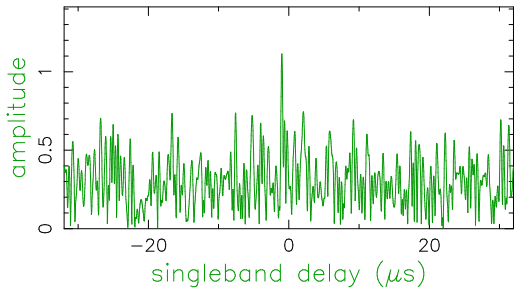
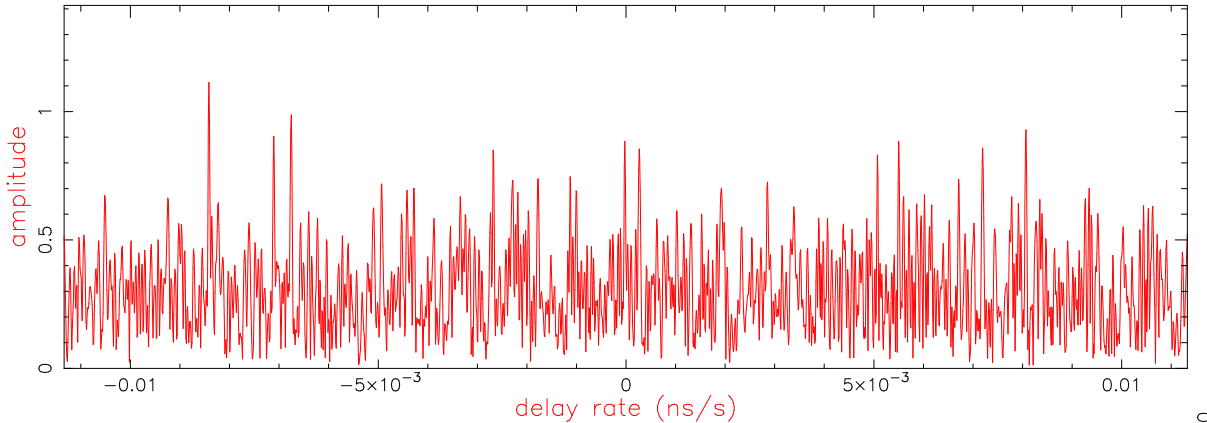
ph/seg (deg)	RMS 91.1	Theor. 108.9	Amplitude Search (2048X8)	1.747 +/- 0.194	1.231	1.231	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	65.8	190.0	Interp.	0.000	0.000	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	6.4	Inc. seg. avg.	0.797	0.797	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	11.1	Inc. frq. avg.	1.734	1.734	Sample rate(MISamp/s): 24	ion window (TEC)	0.00 0.00	
		b: az 184.4 el 53.5 pa 2.8		p: az 213.2 el 63.9 pa 28.5		u,v (fr/asec) -1533.926 1808.850		simultaneous interpolator	

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/bp..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/bp.W.14.1T5H1A

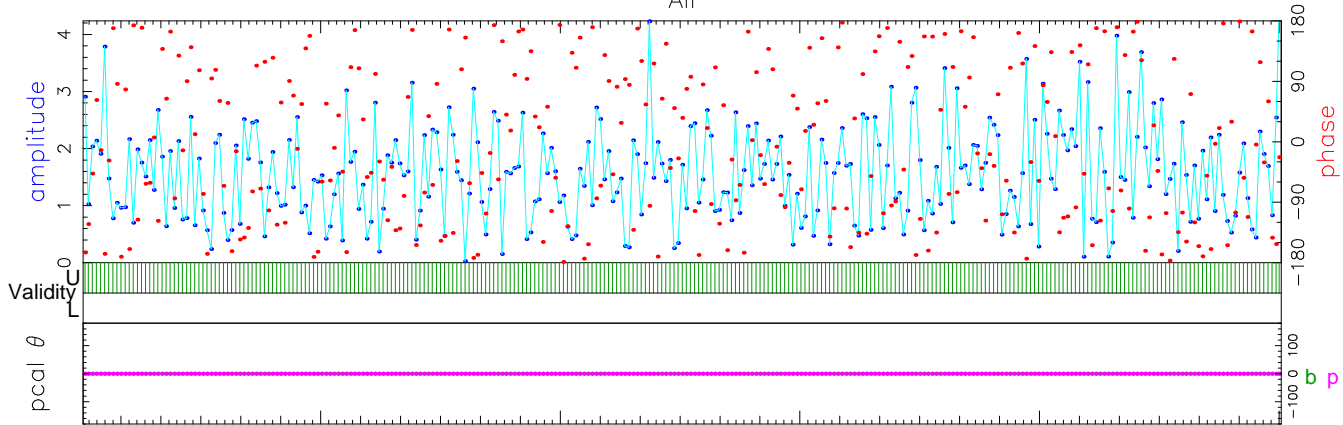
Fringe quality 8

SNR 8.1
Int time 298.973
Amp 1.413
Phase 332.2
PFD 1.1e-08
Delays (us)
SBD -0.993027
MBD -0.000005
Fringe rate (Hz)
-0.723867
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052006
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"



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



86227.00
-169.1
0.4
1489.3
U/L 585/0
b 0
p 0
b:p 0:0
b:p 0:0
b 1000
p 1000
b W03UR
p W03UR

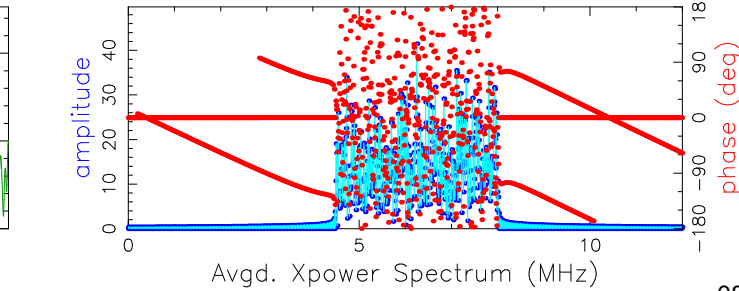
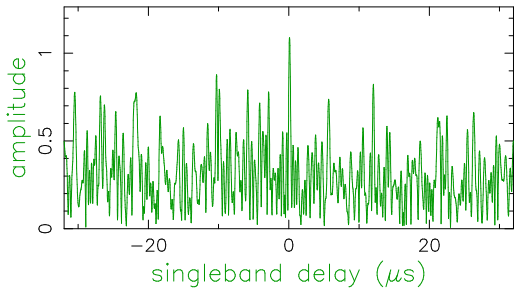
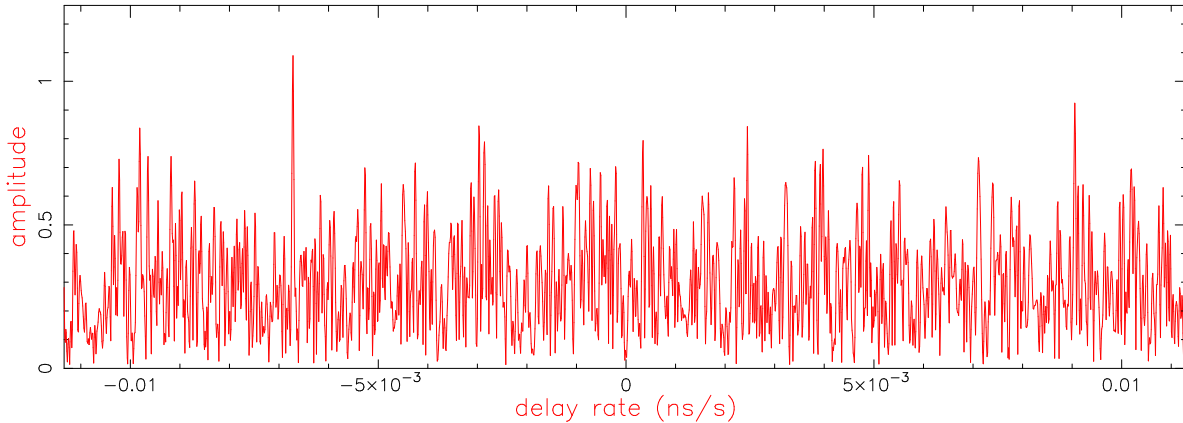
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.96795222052E+03	Apriori delay (usec)	-1.96695919732E+03	Resid mbdelay (usec)	-4.76890E-06	+/-	5.7E-03
Sband delay (usec)	-1.96795222399E+03	Apriori clock (usec)	-8.5220585E+00	Resid sbdelay (usec)	-9.93027E-01	+/-	5.7E-03
Phase delay (usec)	-1.96695920277E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-5.45287E-06	+/-	4.6E-07
Delay rate (us/s)	2.64820213011E-01	Apriori rate (us/s)	2.64828616390E-01	Resid rate (us/s)	-8.40338E-06	+/-	2.6E-09
Total phase (deg)	239.6	Apriori accel (us/s/s)	1.45416665551E-05	Resid phase (deg)	332.2	+/-	14.2

ph/seg (deg)	RMS 93.1	Theor. 121.5	Amplitude Search (2048X8)	1.413 +/- 0.175	1.111	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	84.3	212.1	Interp.	0.000	1.111	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.	0.609	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.4	Inc. frq. avg.	1.401	0.000	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				b: az 184.4 el 53.5 pa 2.8	p: az 213.2 el 63.9 pa 28.5	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite
				u,v (fr/asec) -1533.926 1808.850	simultaneous interpolator		

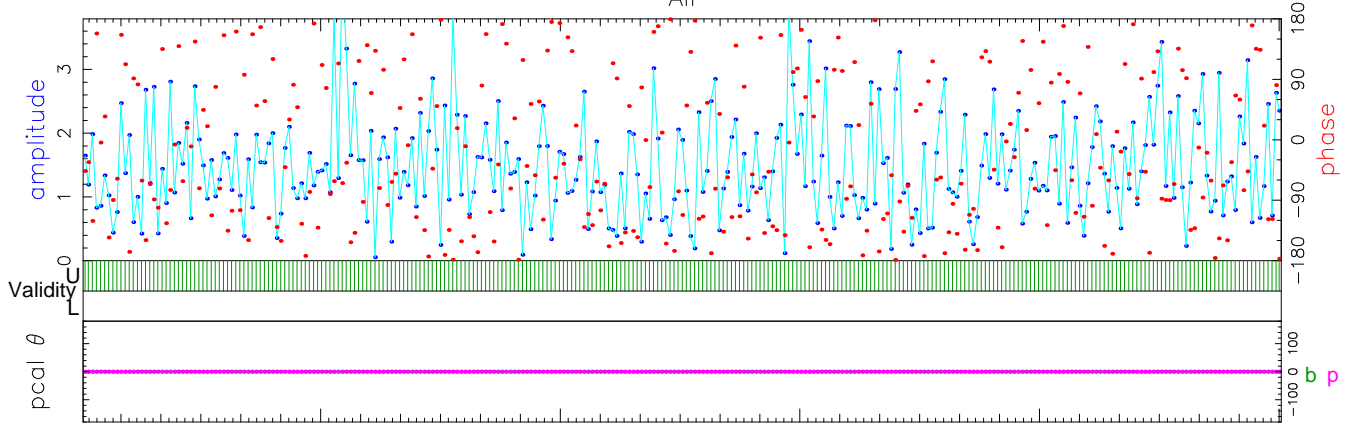
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/bp..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/bp.W.32.1T5H1A

Fringe quality 8



SNR 7.9
Int time 298.973
Amp 1.265
Phase -10.2
PFD 4.8e-08
Delays (us)
SBD 0.099580
MBD -0.000007
Fringe rate (Hz)
-0.578243
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052008
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
-131.1
0.4
1541.8
U/L 585/0
b 0
p 0
b:p 0:0
b:p 0:0
b 1000
p 1000
b W03UL
p W03UR

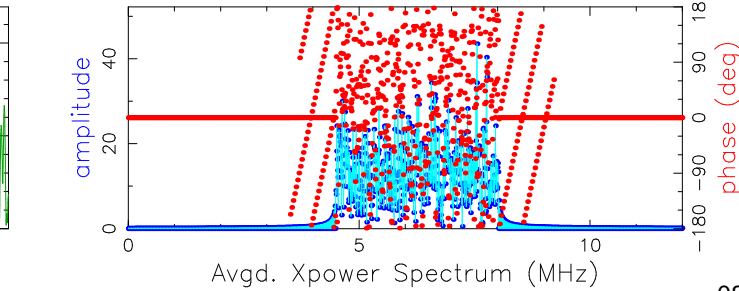
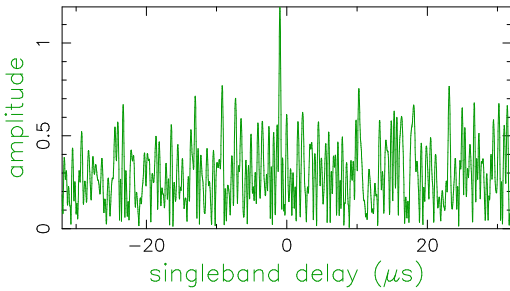
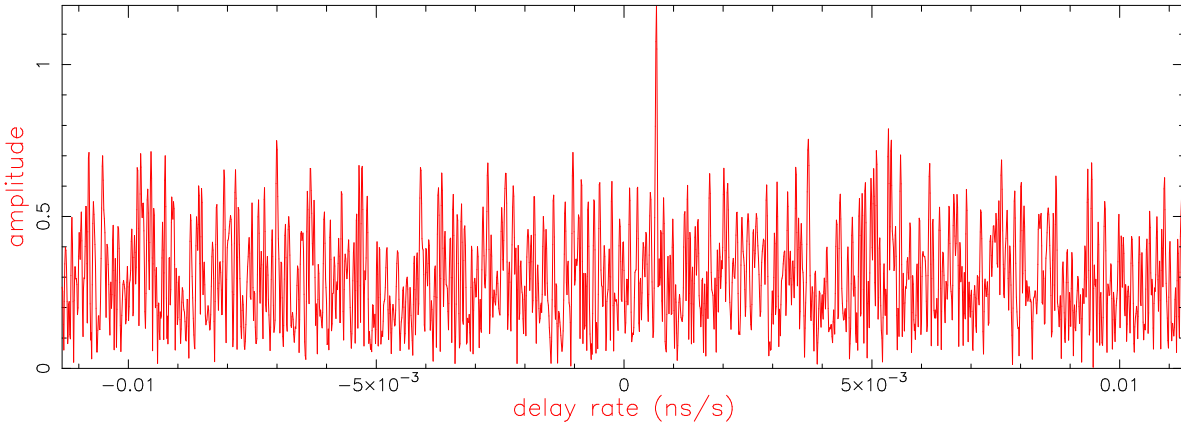
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.96685961825E+03	Apriori delay (usec)	-1.96695919732E+03	Resid mbdelay (usec)	-6.90726E-06	+/-	5.8E-03
Sband delay (usec)	-1.96685961732E+03	Apriori clock (usec)	-8.5220585E+00	Resid sbdelay (usec)	9.95800E-02	+/-	5.8E-03
Phase delay (usec)	-1.96695920155E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	-4.22913E-06	+/-	4.7E-07
Delay rate (us/s)	2.64821903564E-01	Apriori rate (us/s)	2.64828616390E-01	Resid rate (us/s)	-6.71283E-06	+/-	2.7E-09
Total phase (deg)	-102.8	Apriori accel (us/s/s)	1.45416665551E-05	Resid phase (deg)	-10.2	+/-	14.5

ph/seg (deg)	RMS 92.5	Theor. 124.3	Amplitude Search (2048X8)	1.265 +/- 0.166	1.066	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	81.1	216.9	Interp.	0.000	0.006	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.	0.514	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.7	Inc. frq. avg.	1.254	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

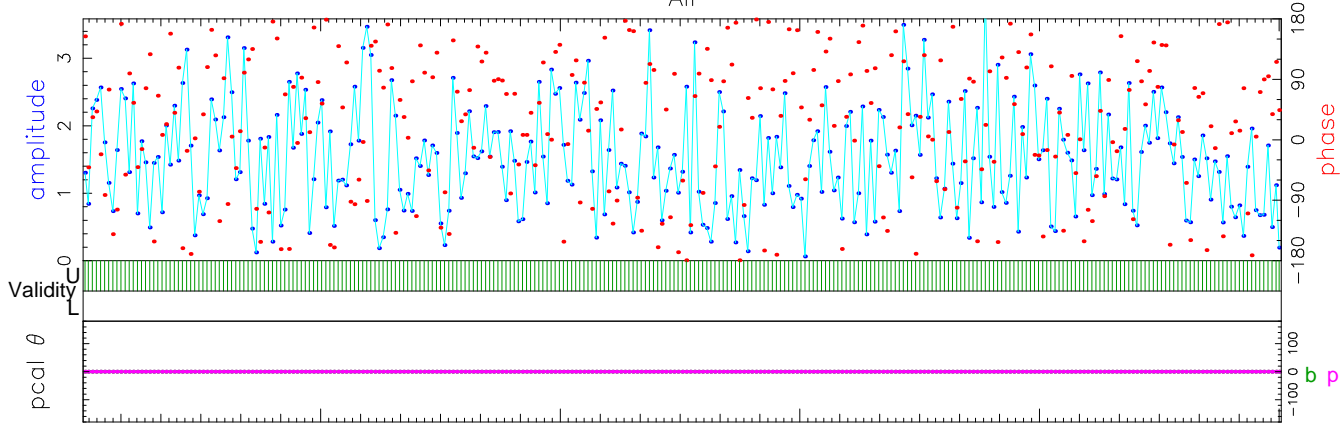
b: az 184.4 el 53.5 pa 2.8 p: az 213.2 el 63.9 pa 28.5 u,v (fr/asec) -1533.926 1808.850 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/bp..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/bp.W.47.1T5H1A

Fringe quality 8



SNR 8.6
Int time 298.973
Amp 1.195
Phase 16.4
PFD 9.9e-11
Delays (us)
SBD -0.986303
MBD 0.000004
Fringe rate (Hz)
0.056068
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.51
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052009
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



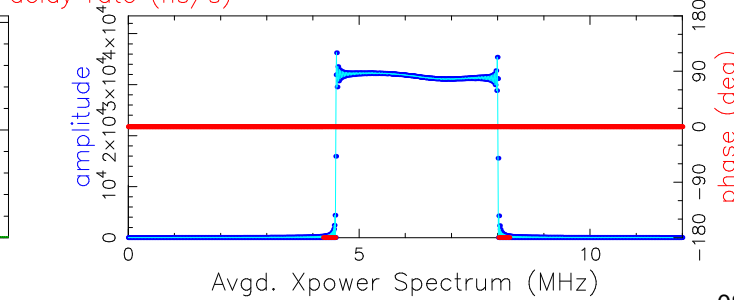
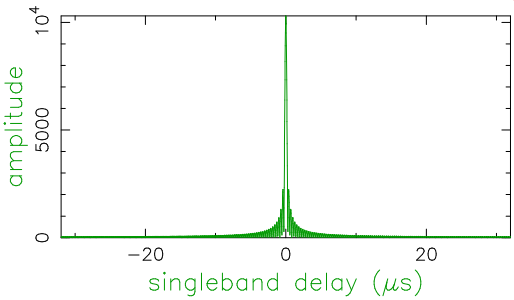
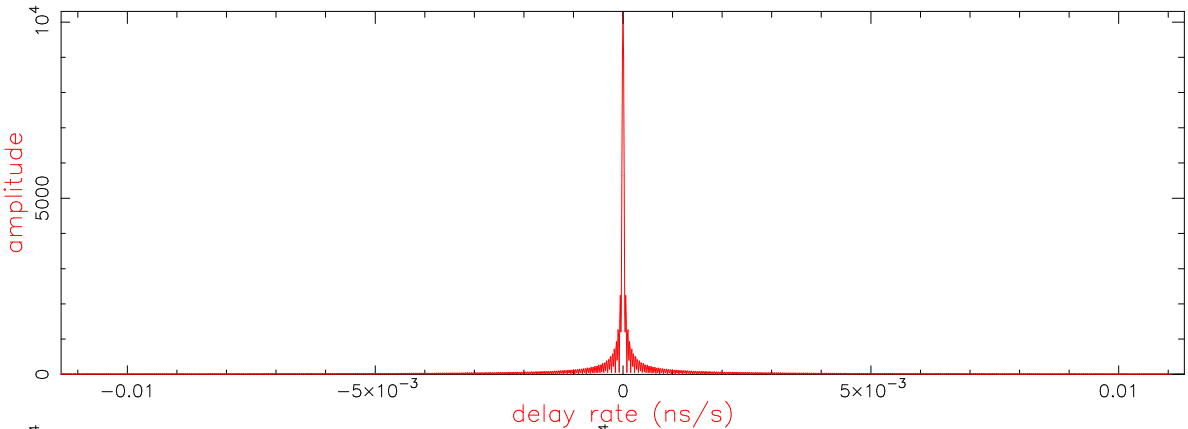
86227.00
85.4
0.3
1489.7
U/L 585/0
b 0
p 0
b:p 0:0
b:p 0:0
b 1000
p 1000
b W03UR
p W03UL

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)	-1.96794549655E+03	Apriori delay (usec)	-1.96695919732E+03	Resid mbdelay (usec)	4.36675E-06	+/-	5.3E-03
Sband delay (usec)	-1.96794549999E+03	Apriori clock (usec)	-8.5220585E+00	Resid sbdelay (usec)	-9.86303E-01	+/-	5.3E-03
Phase delay (usec)	-1.96695919457E+03	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	2.75262E-06	+/-	4.3E-07
Delay rate (us/s)	2.64829267288E-01	Apriori rate (us/s)	2.64828616390E-01	Resid rate (us/s)	6.50898E-07	+/-	2.5E-09
Total phase (deg)	283.8	Apriori accel (us/s/s)	1.45416665551E-05	Resid phase (deg)	16.4	+/-	13.3

ph/seg (deg)	RMS 90.5	Theor. 113.5	Amplitude Search (2048X8)	1.178	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	71.4	198.2	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	6.6	Inc. seg. avg.	0.515	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	11.6	Inc. frq. avg.	1.186	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 184.4 el 53.5 pa 2.8 p: az 213.2 el 63.9 pa 28.5 u,v (fr/asec) -1533.926 1808.850 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/bp..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/bp.W.59.1T5H1A

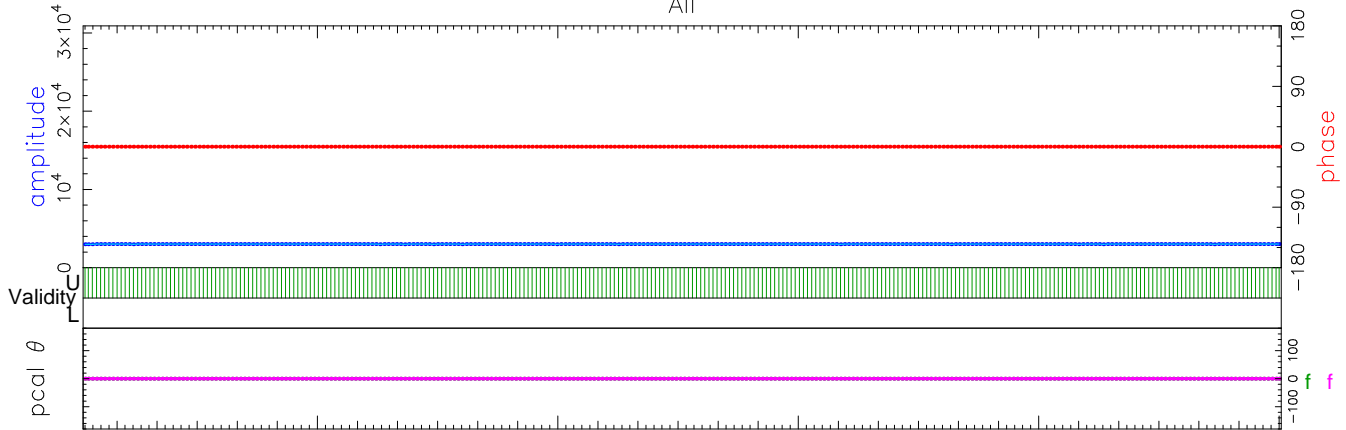


Fringe quality 5

SNR 74458.0
Int time 297.960
Amp 10303.367
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 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052006
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
0.1
3018.6
1537.0
U/L 583/0
f 0
f 0
f:f 0:0
f:f 0:0
f 1000
f 1000
f W03UL
f W03UL

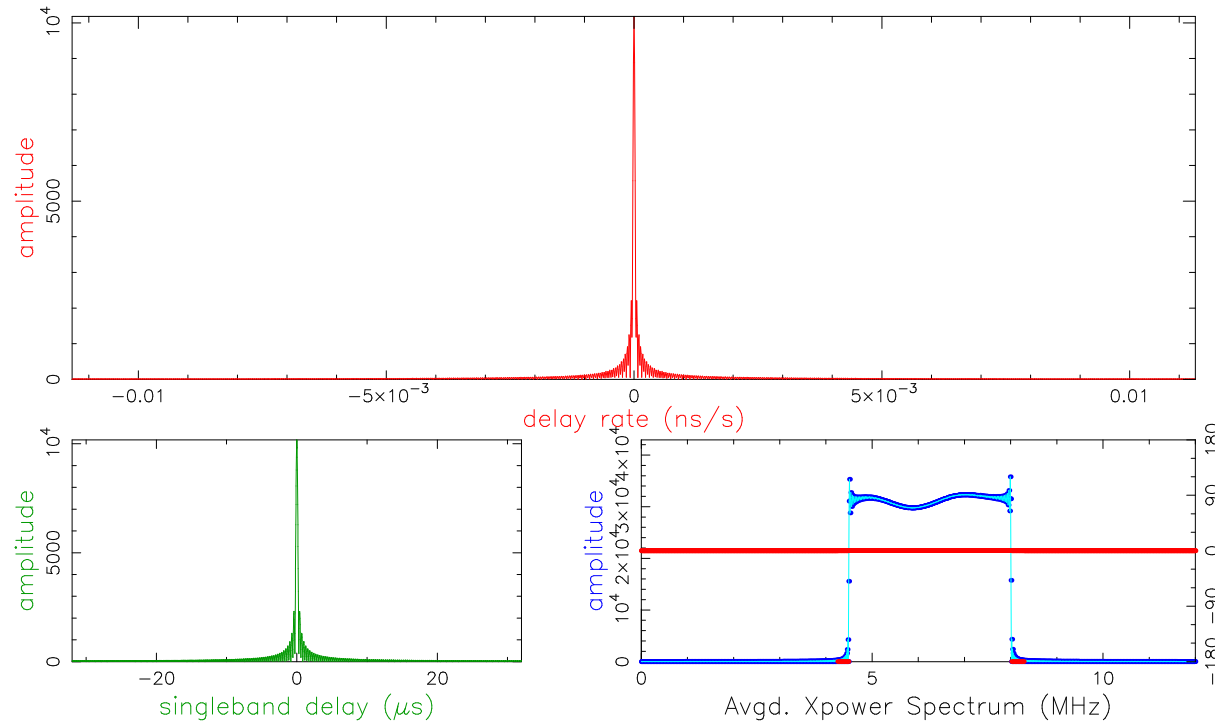
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp

Chan ids
Chan ids

Group delay (usec)(sbd)	-4.35332320503E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.35332E-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)	4.70001228312E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.70001E-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	10303.367 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	10303.368	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.	3018.565	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10303.368	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

f: az 225.9 el 64.5 pa 39.7 f: az 225.9 el 64.5 pa 39.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

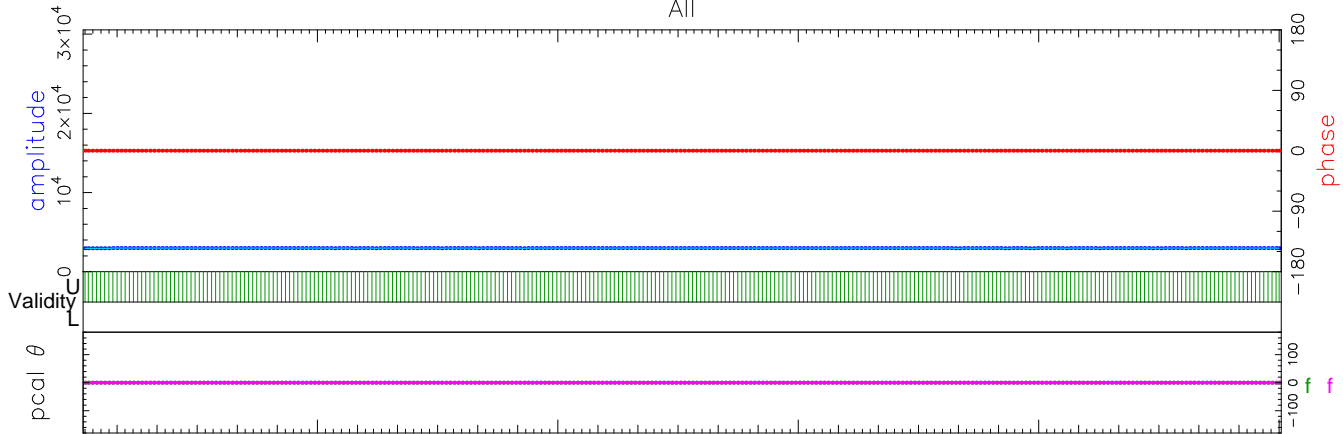


Fringe quality 5

SNR 73588.2
Int time 297.960
Amp 10183.003
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 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052007
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
0.2
2983.3
1537.0
U/L 583/0
f 0
f 0
f:f 0:0
f:f 0:0
f 1000
f 1000
f W03UR
f W03UR

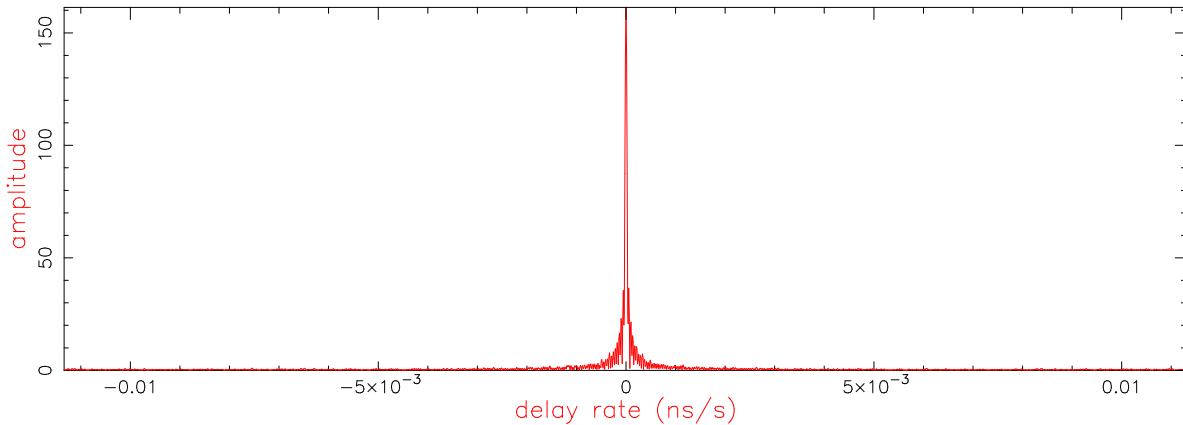
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	4.34986721097E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.24743E-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)	7.82459753743E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.82460E-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

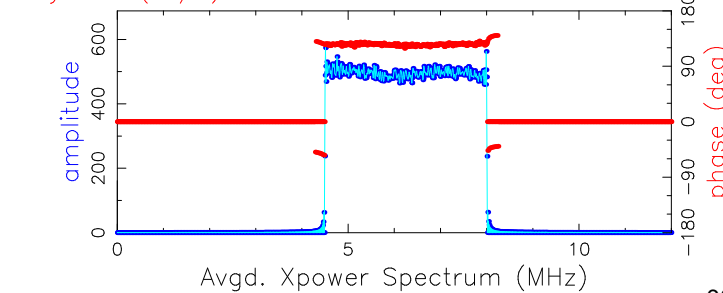
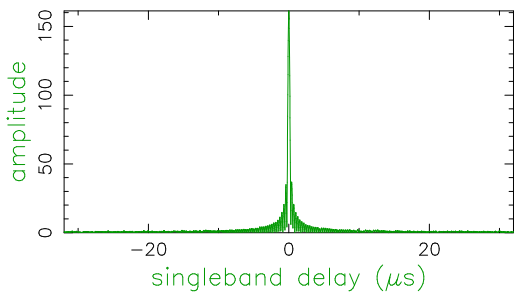
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10183.003 +/- 0.138	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	70.7		0.0	Search (2048X8)	10183.003	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7		0.0	Inc. seg. avg.	2983.302	Sample rate(MISamp/s):	24	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	10183.003	Data rate(Mb/s):	48	ion window (TEC)	0.00 0.00	

f: az 225.9 el 64.5 pa 39.7 f: az 225.9 el 64.5 pa 39.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/ff..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/ff.W.36.1T5H1A

Fringe quality 5

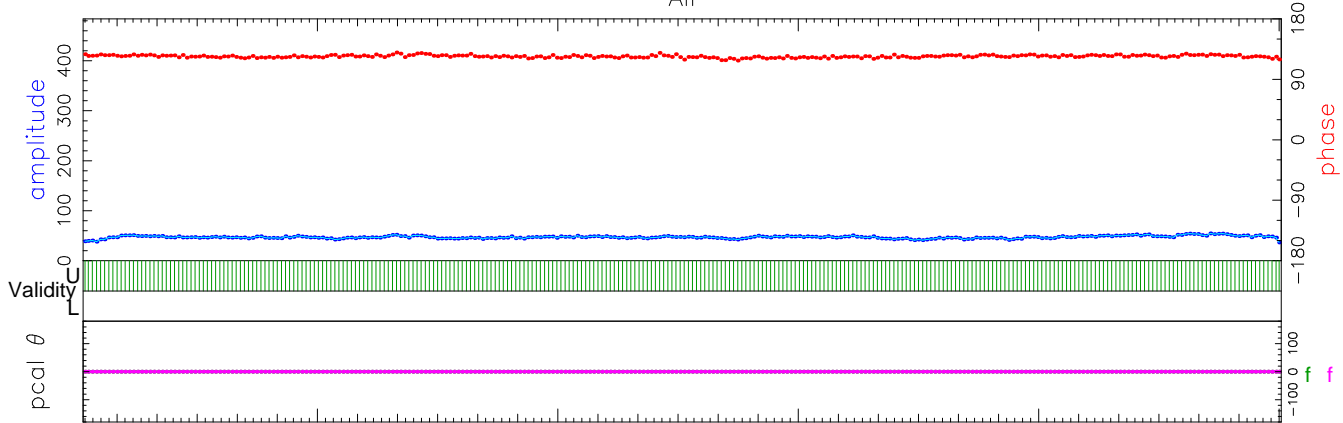


SNR 1165.8
Int time 297.960
Amp 161.316
Phase 140.9
PFD 0.0e+00
Delays (us)
SBD -0.000543
MBD -0.000005
Fringe rate (Hz)
0.000011
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052009
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
124.2
47.3
1537.0
U/L 583/0
f 0
f 0
f:f 0:0
f:f 0:0
f 1000
f 1000
f W03UL
f W03UR

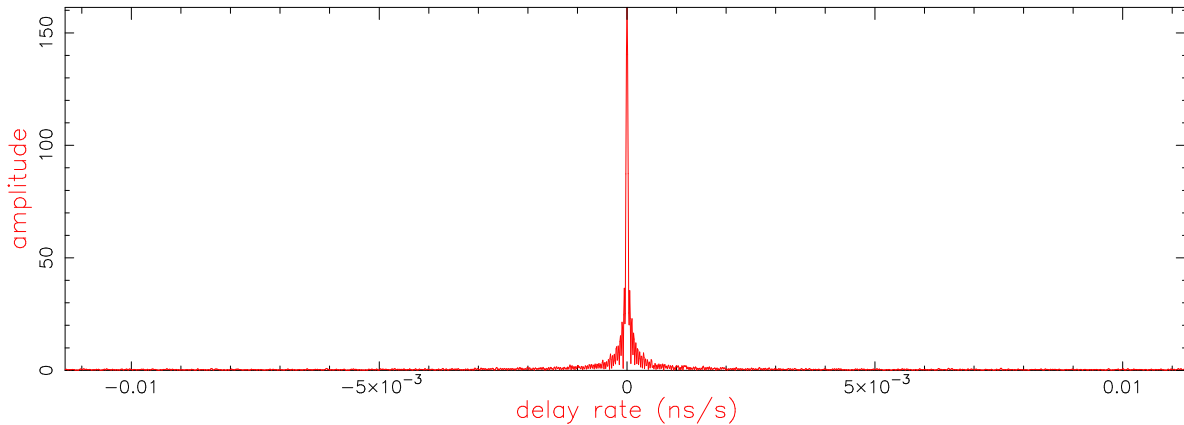
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-5.38191517738E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.71592E-06	+/- 3.9E-05
Sband delay (usec)	-5.42666666667E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-5.42667E-04	+/- 3.9E-05
Phase delay (usec)	4.00389717454E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.00390E-06	+/- 3.2E-09
Delay rate (us/s)	1.22580468188E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	1.22580E-10	+/- 1.8E-11
Total phase (deg)	140.9	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	140.9	+/- 0.1

ph/seg (deg)	RMS 1.9	Theor. 0.8	Amplitude 161.316 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	1.5	Search (2048X8) 161.313	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. 47.282	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 161.315	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

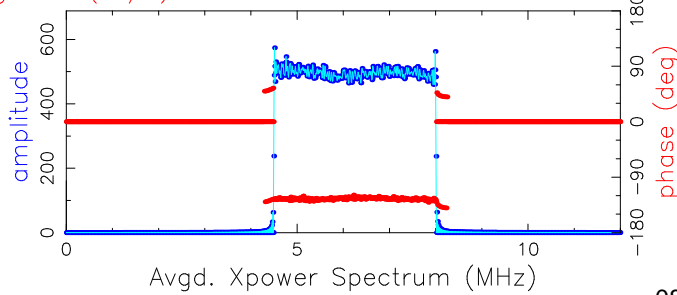
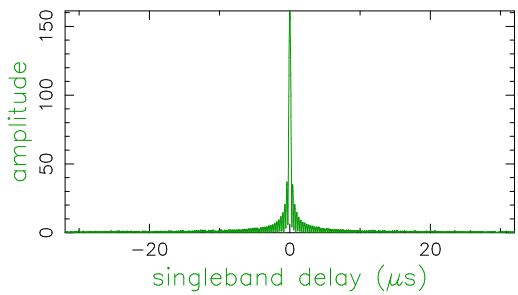
f: az 225.9 el 64.5 pa 39.7 f: az 225.9 el 64.5 pa 39.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/ff..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/ff.W.60.1T5H1A



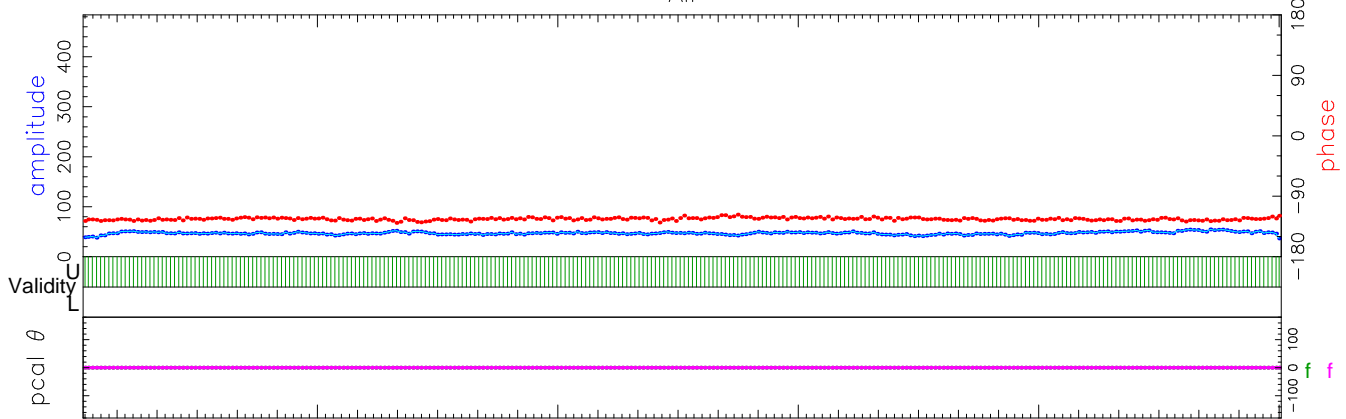
Fringe quality 5

SNR 1165.8
Int time 297.960
Amp 161.316
Phase -140.9
PFD 0.0e+00
Delays (us)
SBD 0.000543
MBD -0.000006
Fringe rate (Hz)
-0.000011
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052011
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



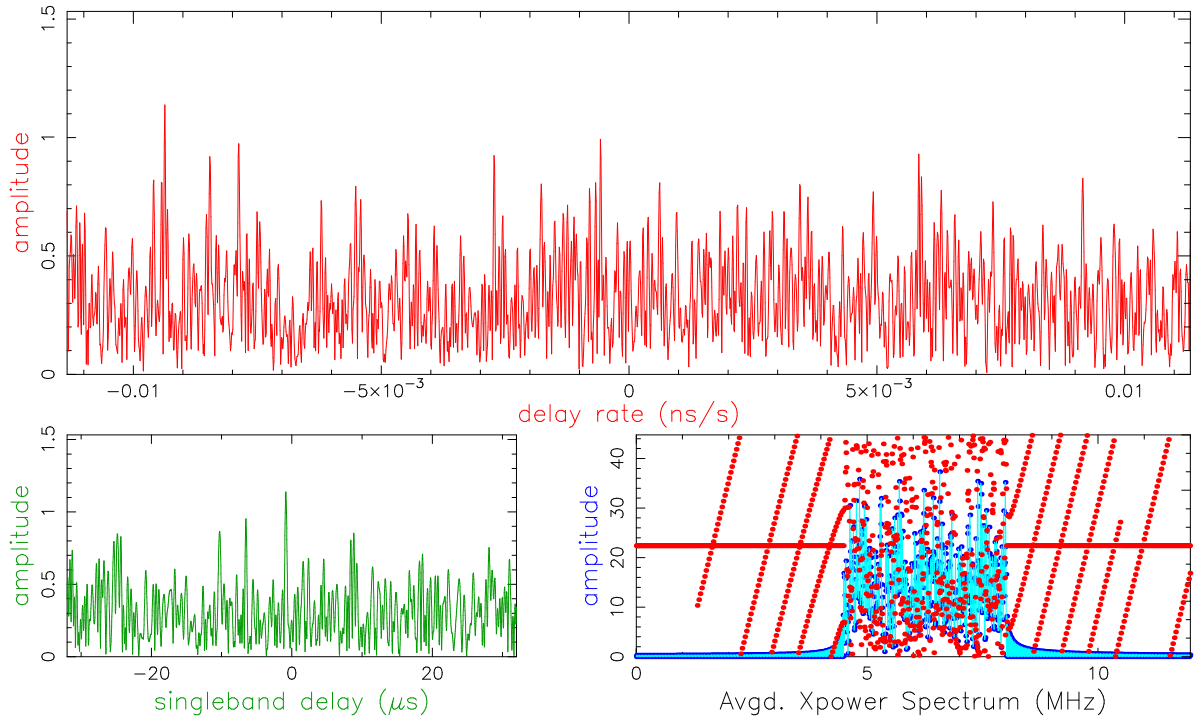
86227.00
-123.8
47.3
1537.0
U/L 583/0
f 0
f 0
f:f 0:0
f:f 0:0
f 1000
f 1000
f W03UR
f W03UL

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)	5.38732879493E-04	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.34001E-06	+/- 3.9E-05
Sband delay (usec)	5.42666666667E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	5.42667E-04	+/- 3.9E-05
Phase delay (usec)	-3.99196077118E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.99196E-06	+/- 3.2E-09
Delay rate (us/s)	-1.22580468188E-10	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	-1.22580E-10	+/- 1.8E-11
Total phase (deg)	-140.9	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-140.9	+/- 0.1

ph/seg (deg)	RMS 1.9	Theor. 0.8	Amplitude 161.316 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	1.5	Search (2048X8) 161.313	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. 47.282	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 161.315	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

f: az 225.9 el 64.5 pa 39.7 f: az 225.9 el 64.5 pa 39.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/ff..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/ff.W.72.1T5H1A

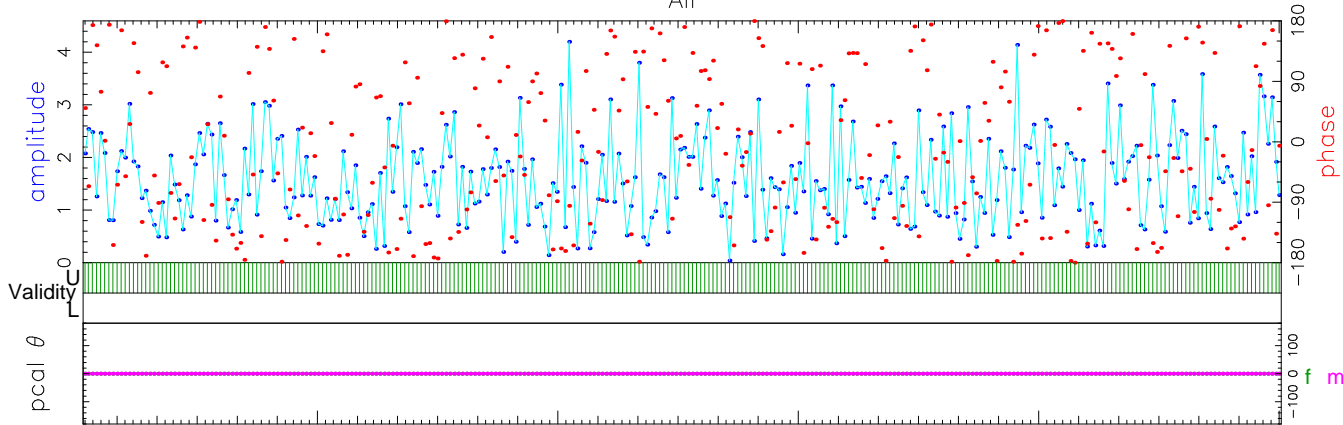


Fringe quality 8

SNR 8.2
Int time 297.960
Amp 1.533
Phase 207.2
PFD 3.3e-09
Delays (us)
SBD -0.851307
MBD -0.000007
Fringe rate (Hz)
-0.806094
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052005
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-175.5
0.4
1496.1
U/L 583/0
f 0
m 0
f:m 0:0
f:m 0:0
f 1000
m 1000
f W03UL
m W03UL

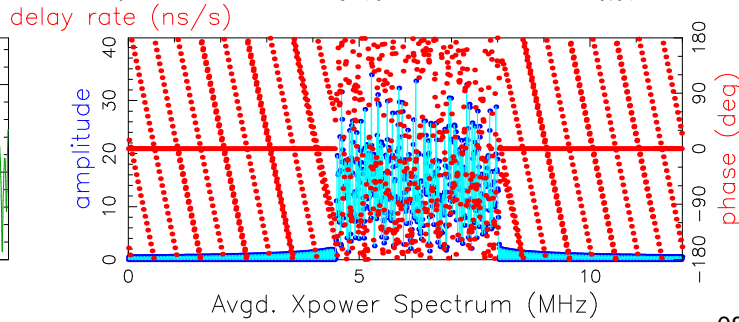
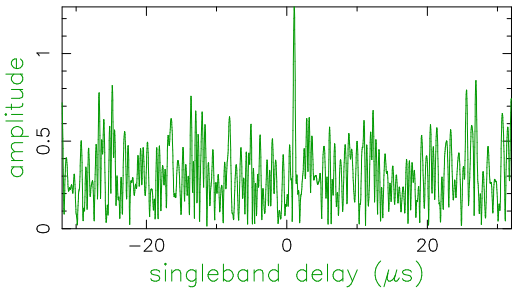
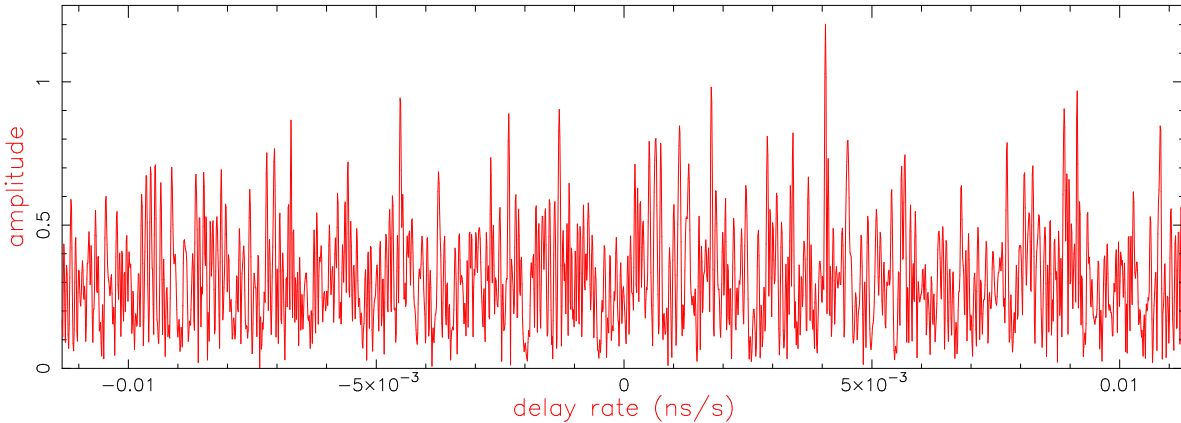
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.06407054201E+03	Apriori delay (usec)	1.06492184814E+03	Resid mbdelay (usec)	-6.65388E-06	+/- 5.6E-03
Sband delay (usec)	1.06407054147E+03	Apriori clock (usec)	-5.4554176E+00	Resid sbdelay (usec)	-8.51307E-01	+/- 5.6E-03
Phase delay (usec)	1.06492184248E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-5.65778E-06	+/- 4.5E-07
Delay rate (us/s)	-1.19532456437E+00	Apriori rate (us/s)	-1.19531520642E+00	Resid rate (us/s)	-9.35796E-06	+/- 2.6E-09
Total phase (deg)	206.7	Apriori accel (us/s/s)	-1.80715415957E-06	Resid phase (deg)	207.2	+/- 13.9

ph/seg (deg)	RMS 95.1	Theor. 119.1	Amplitude Search (2048X8)	1.533 +/- 0.186	1.114	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	83.3	207.8	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	7.0	Inc. seg. avg.	0.679	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.2	Inc. frq. avg.	1.521	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

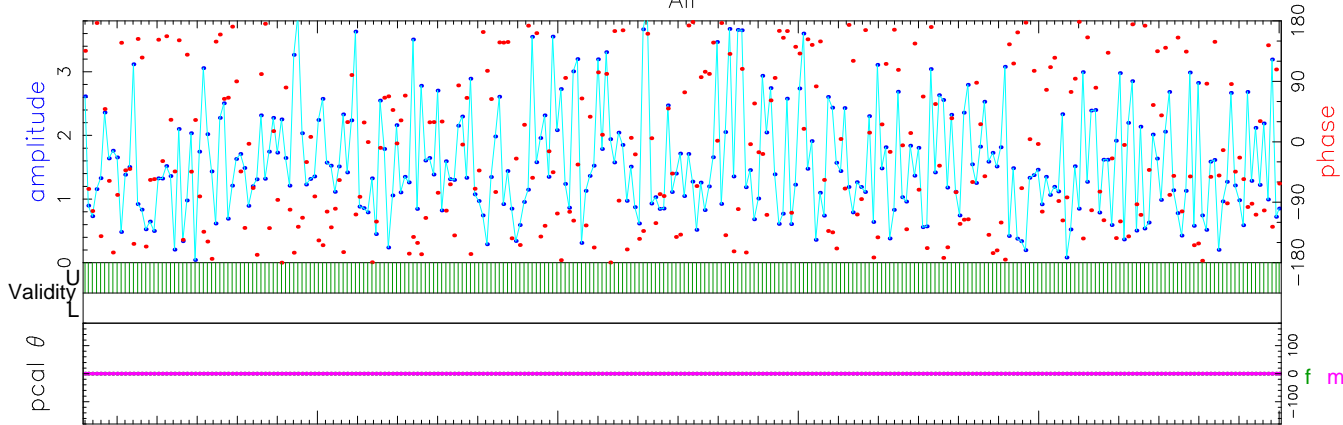
f: az 225.9 el 64.5 pa 39.7 m: az 99.3 el 57.2 pa -71.6 u,v (fr/asec) 6984.985 1439.686 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/fm..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/fm.W.19.1T5H1A

Fringe quality 8



SNR 8.7
Int time 297.960
Amp 1.267
Phase -141.7
PFD 7.0e-11
Delays (us)
SBD 1.000000
MBD 0.000007
Fringe rate (Hz)
0.350031
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052009
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-142.0
0.4
1587.5
U/L 583/0
f 0
m 0
f:m 0:0
f:m 0:0
f 1000
m 1000
f W03UR
m W03UR

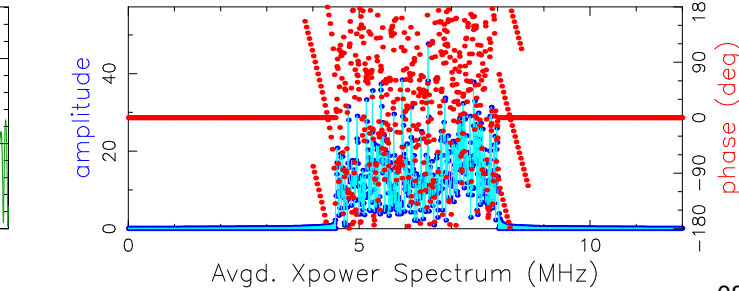
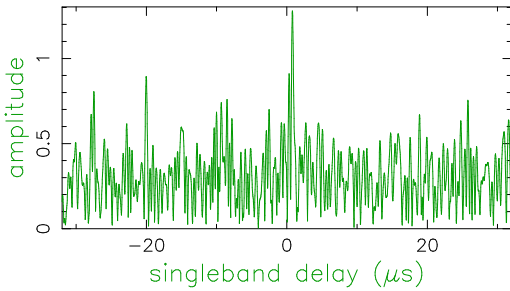
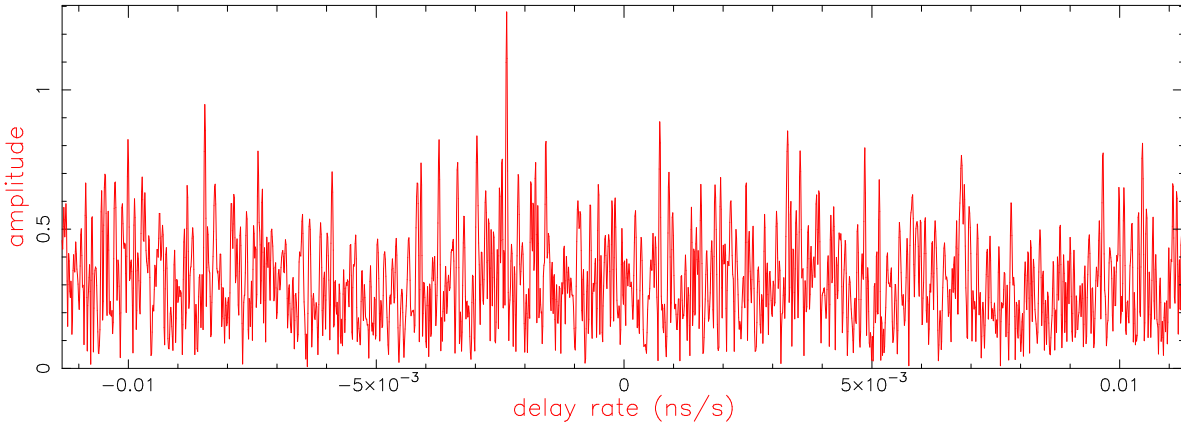
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.06592184336E+03	Apriori delay (usec)	1.06492184814E+03	Resid mbdelay (usec)	6.81782E-06	+/-	5.3E-03
Sband delay (usec)	1.06592184814E+03	Apriori clock (usec)	-5.4554176E+00	Resid sbdelay (usec)	1.00000E+00	+/-	5.3E-03
Phase delay (usec)	1.06492184356E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-4.58051E-06	+/-	4.3E-07
Delay rate (us/s)	-1.19531114290E+00	Apriori rate (us/s)	-1.19531520642E+00	Resid rate (us/s)	4.06352E-06	+/-	2.5E-09
Total phase (deg)	-142.2	Apriori accel (us/s/s)	-1.80715415957E-06	Resid phase (deg)	-141.7	+/-	13.2

ph/seg (deg)	RMS 92.6	Theor. 112.8	Amplitude Search (2048X8)	1.267 +/- 0.146	1.190	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	78.0	196.9	Interp.	0.000	1.190	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.	0.568	1.190	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.5	Inc. frq. avg.	1.259	1.190	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	

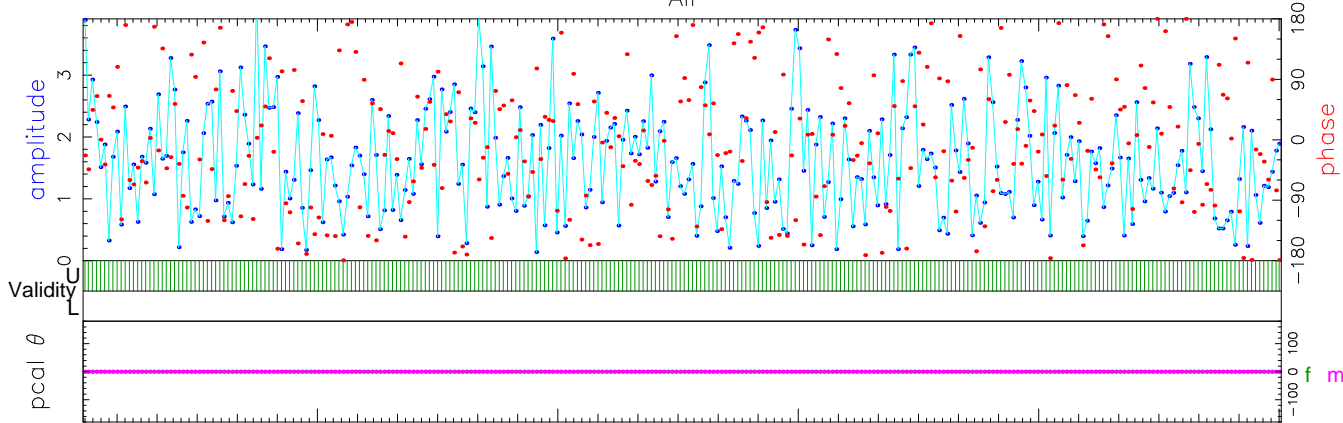
f: az 225.9 el 64.5 pa 39.7 m: az 99.3 el 57.2 pa -71.6 u,v (fr/asec) 6984.985 1439.686 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/fm..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/fm.W.54.1T5H1A

Fringe quality 8



SNR 9.3
Int time 297.960
Amp 1.303
Phase -86.6
PFD 4.2e-13
Delays (us)
SBD 0.795329
MBD -0.000005
Fringe rate (Hz)
-0.203865
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052010
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



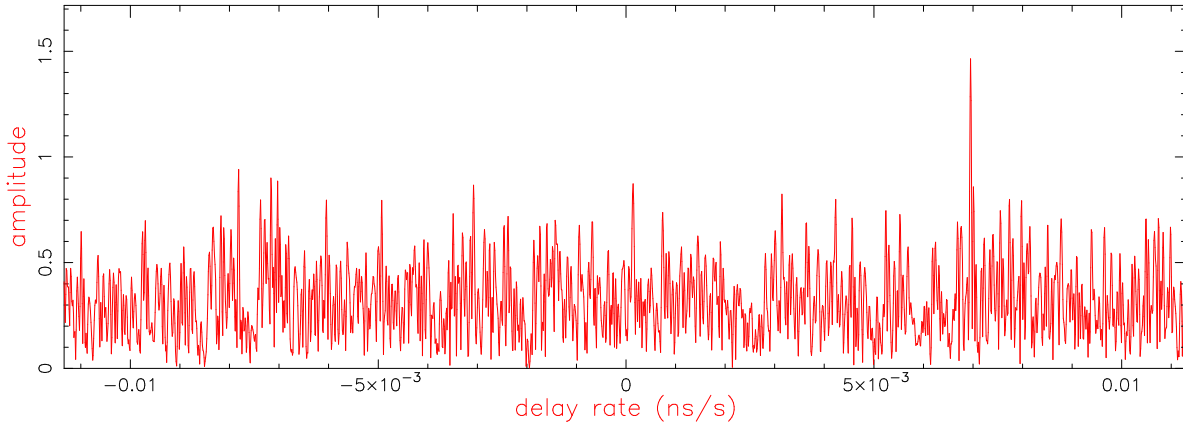
86227.00
-16.9
0.4
1575.2
U/L 583/0
f 0
m 0
f:m 0:0
f:m 0:0
f 1000
m 1000
f W03UL
m W03UR

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

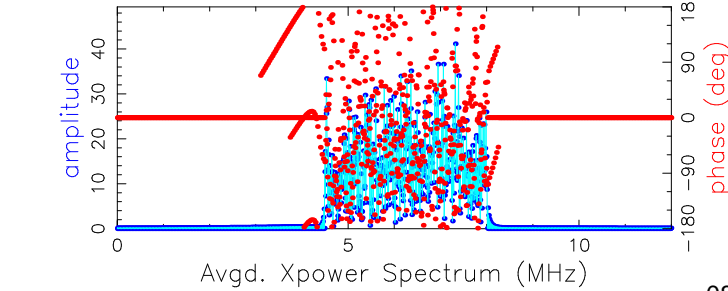
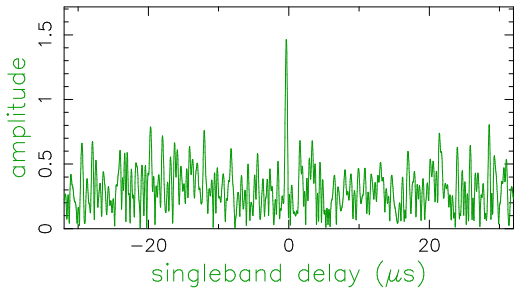
Group delay (usec)(sbd)	1.06571717431E+03	Apriori delay (usec)	1.06492184814E+03	Resid mbdelay (usec)	-4.75378E-06	+/- 5.0E-03
Sband delay (usec)	1.06571717747E+03	Apriori clock (usec)	-5.4554176E+00	Resid sbdelay (usec)	7.95329E-01	+/- 5.0E-03
Phase delay (usec)	1.06492184759E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-5.43562E-07	+/- 4.0E-07
Delay rate (us/s)	-1.19531757309E+00	Apriori rate (us/s)	-1.19531520642E+00	Resid rate (us/s)	-2.36668E-06	+/- 2.3E-09
Total phase (deg)	-87.2	Apriori accel (us/s/s)	-1.80715415957E-06	Resid phase (deg)	-86.6	+/- 12.4

ph/seg (deg)	RMS 93.5	Theor. 105.8	Amplitude Search (2048X8)	1.303 +/- 0.141	1.265	1.265	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	72.3	184.7	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	6.2	Inc. seg. avg.	0.607	0.607	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	10.8	Inc. frq. avg.	1.295	1.295	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

Fringe quality 7

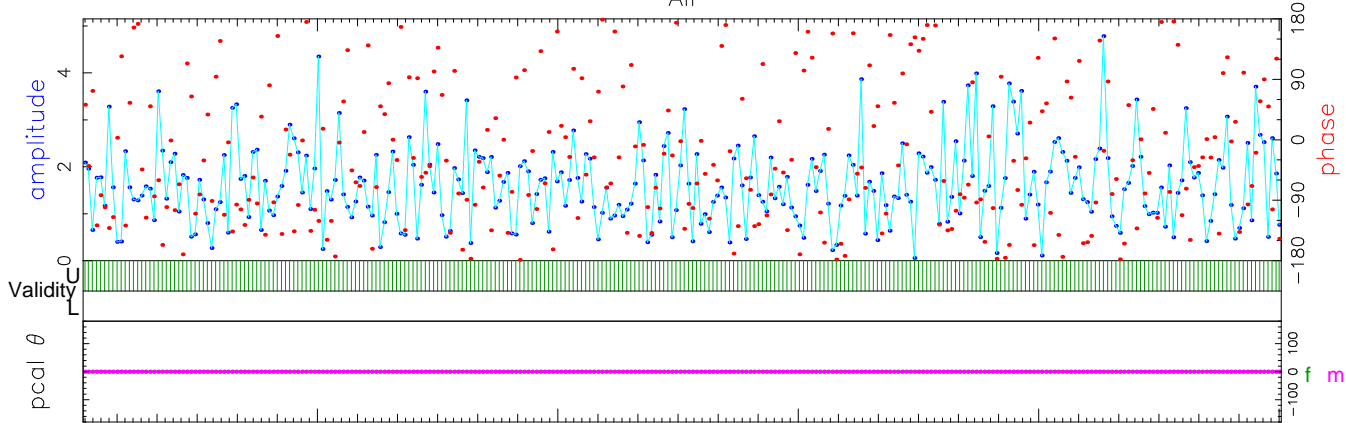


SNR 10.6
Int time 297.960
Amp 1.717
Phase 255.4
PFD 7.7e-19
Delays (us)
SBD -0.355920
MBD 0.000007
Fringe rate (Hz)
0.598095
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052012
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-92.4
0.5
1519.9
U/L 583/0
f 0
m 0
f:m 0:0
f:m 0:0
f 1000
m 1000
f W03UR
m W03UL

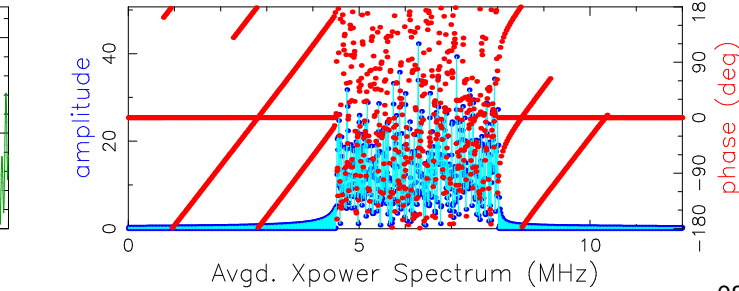
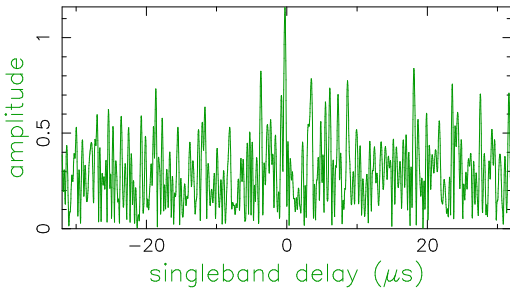
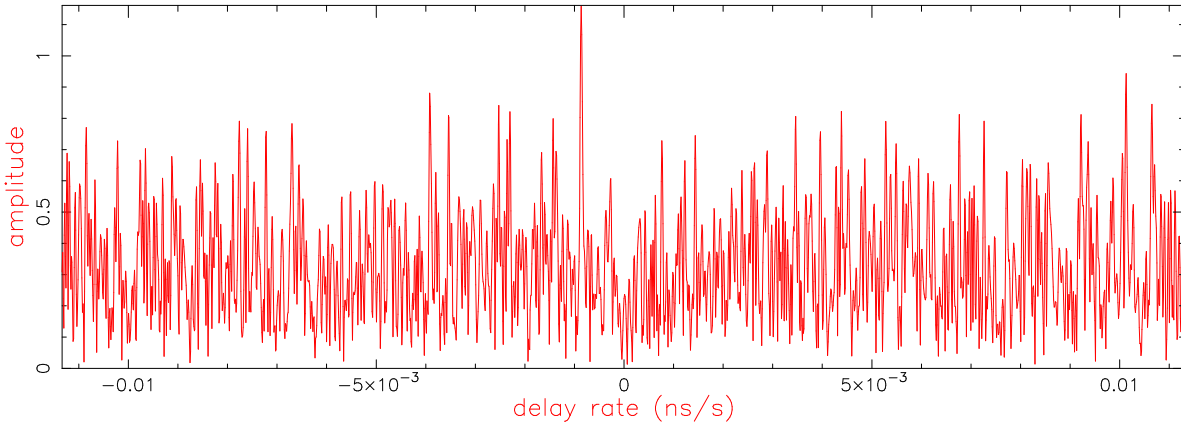
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.06456592278E+03	Apriori delay (usec)	1.06492184814E+03	Resid mbdelay (usec)	7.24249E-06	+/-	4.3E-03
Sband delay (usec)	1.06456592814E+03	Apriori clock (usec)	-5.4554176E+00	Resid sbdelay (usec)	-3.55920E-01	+/-	4.3E-03
Phase delay (usec)	1.06492184516E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-2.98089E-06	+/-	3.5E-07
Delay rate (us/s)	-1.19530826312E+00	Apriori rate (us/s)	-1.19531520642E+00	Resid rate (us/s)	6.94329E-06	+/-	2.0E-09
Total phase (deg)	254.8	Apriori accel (us/s/s)	-1.80715415957E-06	Resid phase (deg)	255.4	+/-	10.8

ph/seg (deg)	RMS 91.6	Theor. 92.5	Amplitude Search (2048X8)	1.717 +/- 0.162	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	58.7	161.5	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	5.4	Inc. seg. avg.	0.826	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	9.5	Inc. frq. avg.	1.709	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

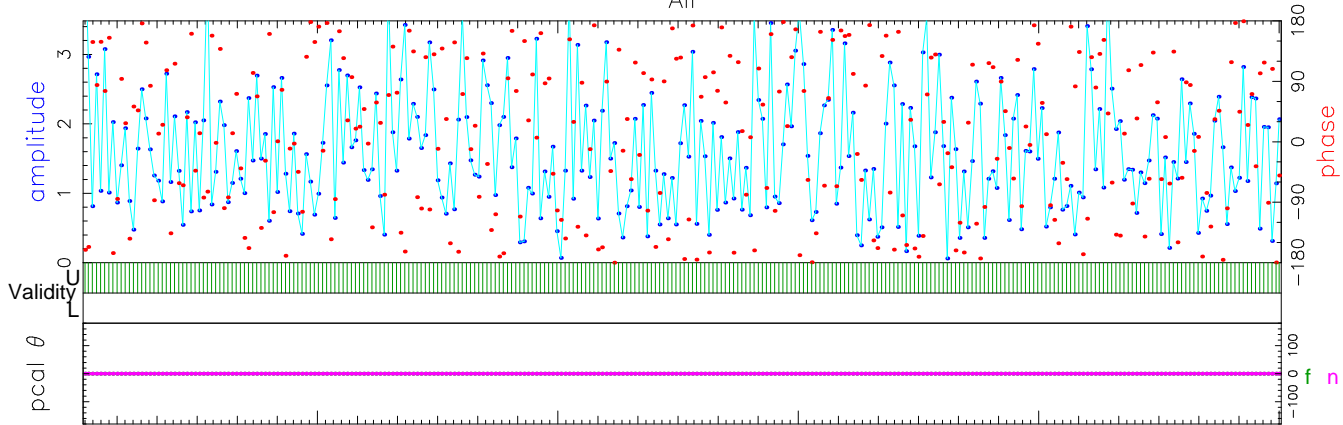
f: az 225.9 el 64.5 pa 39.7 m: az 99.3 el 57.2 pa -71.6 u,v (fr/asec) 6984.985 1439.686 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/fm..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/fm.W.83.1T5H1A

Fringe quality 8



SNR 8.4
Int time 297.960
Amp 1.161
Phase 228.2
PFD 9.5e-10
Delays (us)
SBD -0.267113
MBD -0.000006
Fringe rate (Hz)
-0.074602
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052005
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



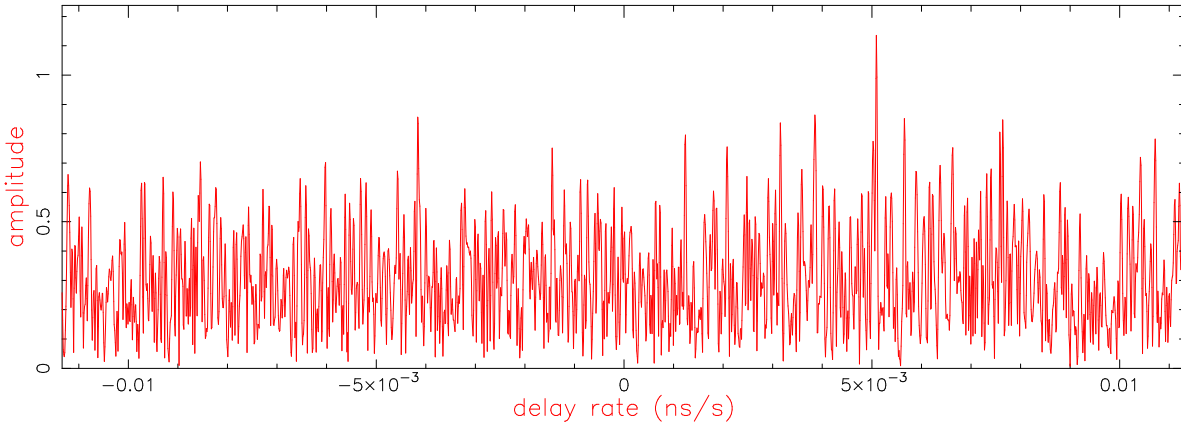
86227.00
142.3
0.3
1524.2
U/L 583/0
f 0
n 0
f:n 0:0
f:n 0:0
f 1000
n 1000
f W03UL
n W03UL

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

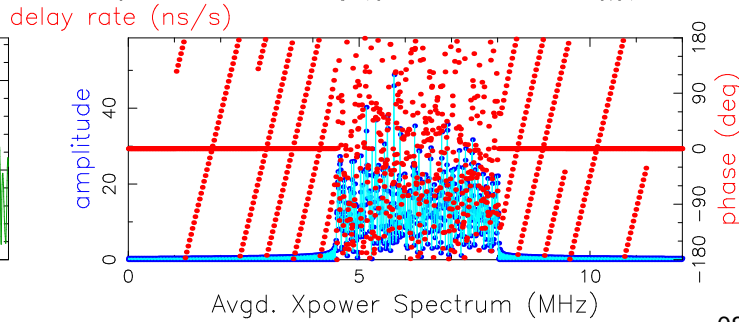
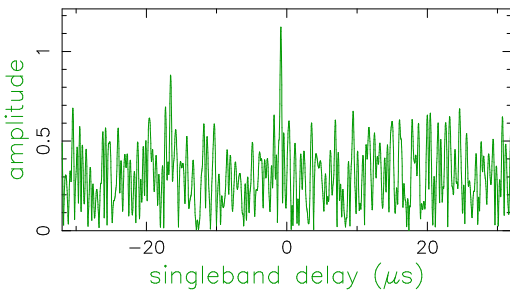
Group delay (usec)(sbd)	3.02709289621E+03	Apriori delay (usec)	3.02736001086E+03	Resid mbdelay (usec)	-5.74113E-06	+/- 5.5E-03
Sband delay (usec)	3.02709289753E+03	Apriori clock (usec)	4.7775822E+00	Resid sbdelay (usec)	-2.67113E-01	+/- 5.5E-03
Phase delay (usec)	3.02736001545E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	4.58982E-06	+/- 4.4E-07
Delay rate (us/s)	1.63343672097E-01	Apriori rate (us/s)	1.63344538151E-01	Resid rate (us/s)	-8.66054E-07	+/- 2.6E-09
Total phase (deg)	349.1	Apriori accel (us/s/s)	-1.96390639762E-05	Resid phase (deg)	228.2	+/- 13.7

ph/seg (deg)	RMS 94.2	Theor. 116.9	Amplitude Search (2048X8)	1.161 +/- 0.139	1.146	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	85.6	204.1	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 (%)	70.7	11.9	Inc. frq. avg.	1.153	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s)	-0.011 0.011
				f, u, v (fr/asec)	-976.314 -1674.527	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

Fringe quality 8

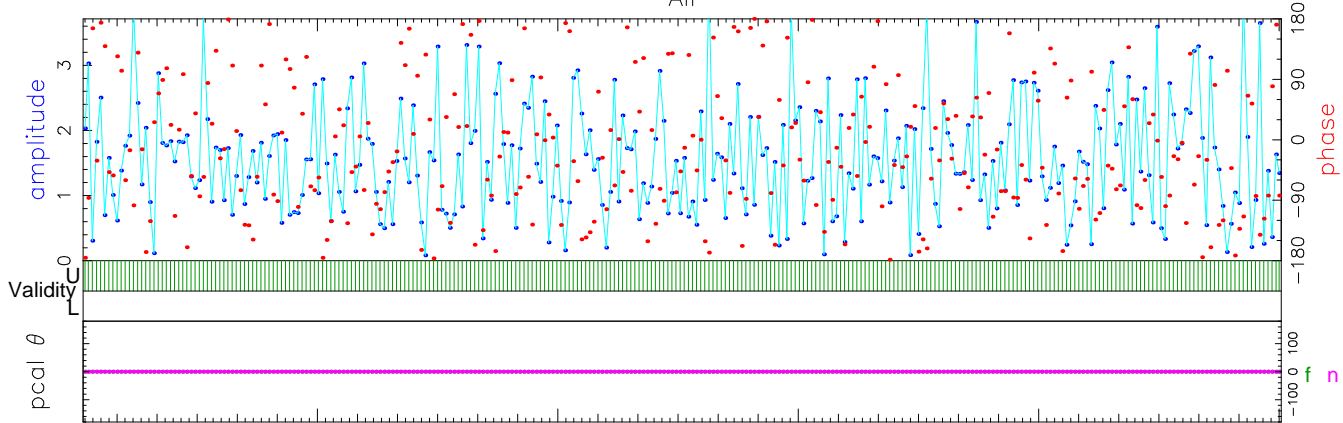


SNR 8.2
Int time 297.960
Amp 1.238
Phase 113.2
PFD 3.3e-09
Delays (us)
SBD -0.844740
MBD 0.000007
Fringe rate (Hz)
0.438568
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052007
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-64.3
0.4
1496.4
U/L 583/0
f 0
n 0
f:n 0:0
f:n 0:0
f 1000
n 1000
f W03UR
n W03UR

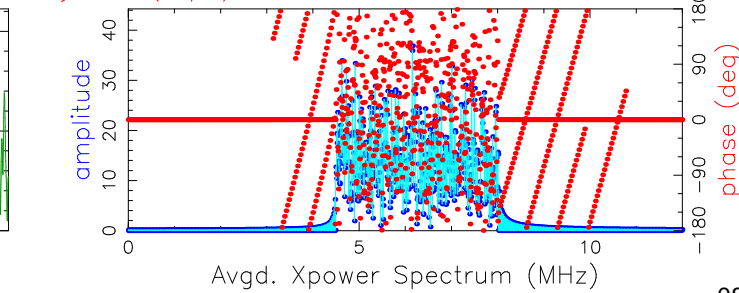
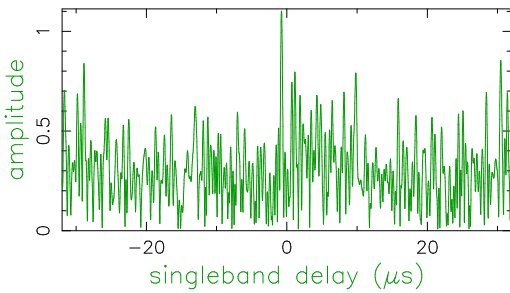
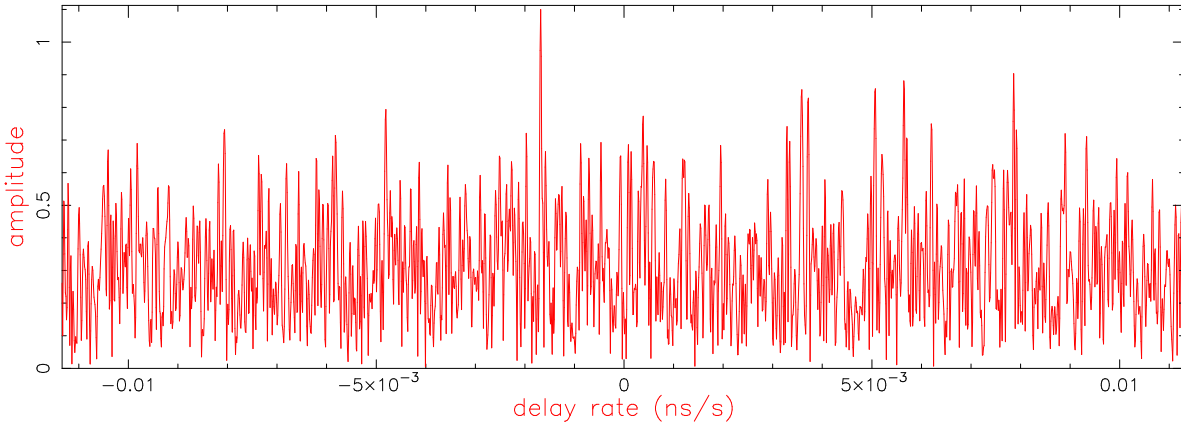
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	3.02651527059E+03	Apriori delay (usec)	3.02736001086E+03	Resid mbdelay (usec)	6.73627E-06	+/-	5.6E-03
Sband delay (usec)	3.02651527086E+03	Apriori clock (usec)	4.7775822E+00	Resid sbdelay (usec)	-8.44740E-01	+/-	5.6E-03
Phase delay (usec)	3.02736000879E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-2.07245E-06	+/-	4.5E-07
Delay rate (us/s)	1.63349629486E-01	Apriori rate (us/s)	1.63344538151E-01	Resid rate (us/s)	5.09133E-06	+/-	2.6E-09
Total phase (deg)	234.1	Apriori accel (us/s/s)	-1.96390639762E-05	Resid phase (deg)	113.2	+/-	13.9

ph/seg (deg)	RMS 93.2	Theor. 119.1	Amplitude Search (2048X8)	1.238 +/- 0.151	1.127	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	85.1	207.8	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	7.0	Inc. seg. avg.	0.542	0.542	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.8	12.2	Inc. frq. avg.	1.226	1.226	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

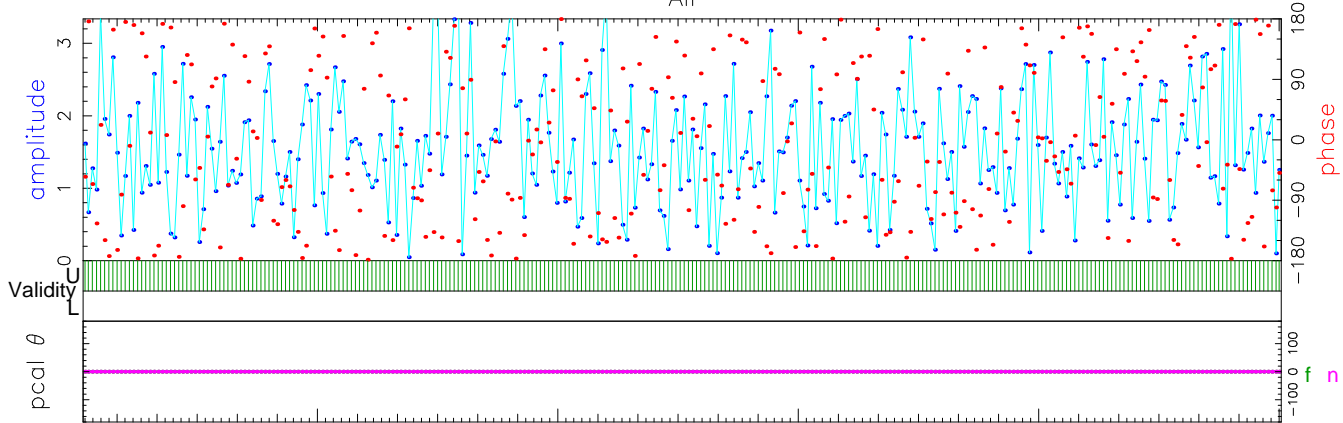
f: az 225.9 el 64.5 pa 39.7 n: az 230.7 el 49.7 pa 36.0 u,v (fr/asec) -976.314 -1674.527 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/fn..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/fn.W.37.1T5H1A

Fringe quality 8



SNR 8.0
Int time 297.960
Amp 1.113
Phase 258.4
PFD 2.6e-08
Delays (us)
SBD -0.760627
MBD -0.000005
Fringe rate (Hz)
-0.144901
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052010
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-164.2
0.3
1500.5
U/L 583/0
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)	3.02659938582E+03	Apriori delay (usec)	3.02736001086E+03	Resid mbdelay (usec)	-4.82151E-06	+/- 5.8E-03
Sband delay (usec)	3.02659938420E+03	Apriori clock (usec)	4.7775822E+00	Resid sbdelay (usec)	-7.60627E-01	+/- 5.8E-03
Phase delay (usec)	3.02736000557E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-5.29513E-06	+/- 4.6E-07
Delay rate (us/s)	1.63342855996E-01	Apriori rate (us/s)	1.63344538151E-01	Resid rate (us/s)	-1.68216E-06	+/- 2.7E-09
Total phase (deg)	19.3	Apriori accel (us/s/s)	-1.96390639762E-05	Resid phase (deg)	258.4	+/- 14.4

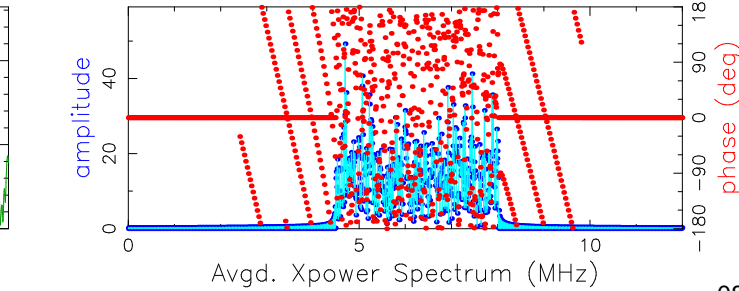
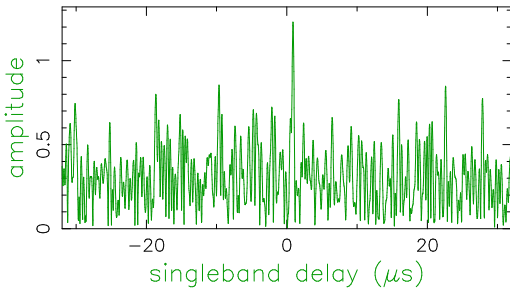
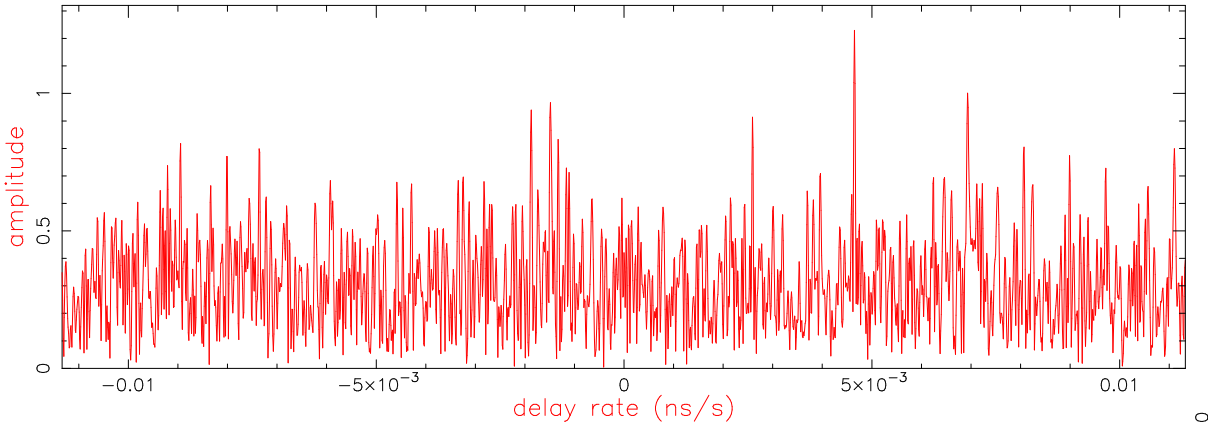
ph/seg (deg)	RMS 93.6	Theor. 122.9	Amplitude Search (2048X8)	1.113 +/- 0.140	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	84.7	214.5	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.478	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	12.6	Inc. frq. avg.	1.102	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 225.9 el 64.5 pa 39.7 n: az 230.7 el 49.7 pa 36.0 u,v (fr/asec) -976.314 -1674.527 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/fn..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/fn.W.64.1T5H1A

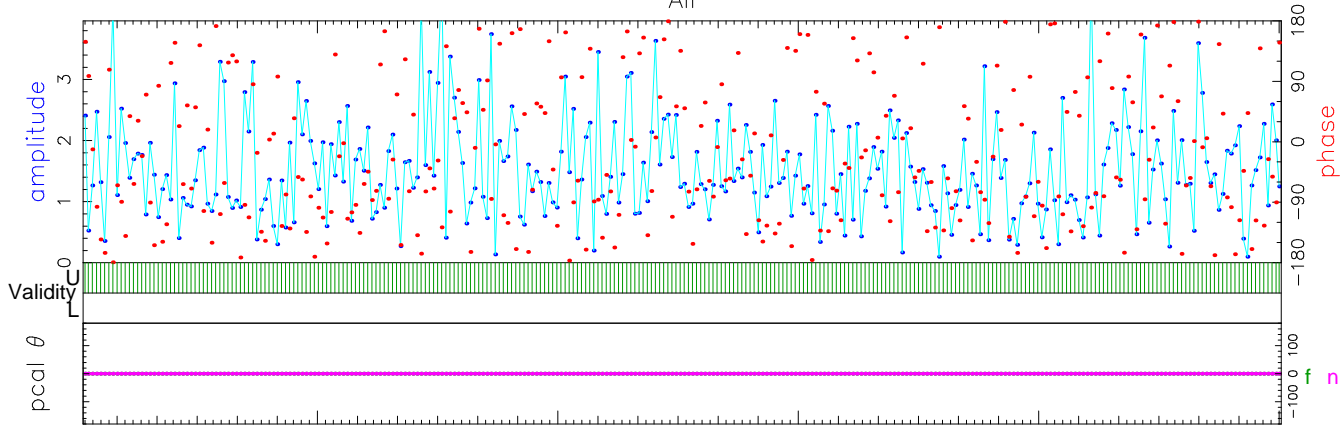
Fringe quality 8

SNR 8.9
Int time 297.960
Amp 1.320
Phase -87.5
PFD 1.0e-11
Delays (us)
SBD 0.884244
MBD 0.000007
Fringe rate (Hz)
0.399839
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052011
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"



Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



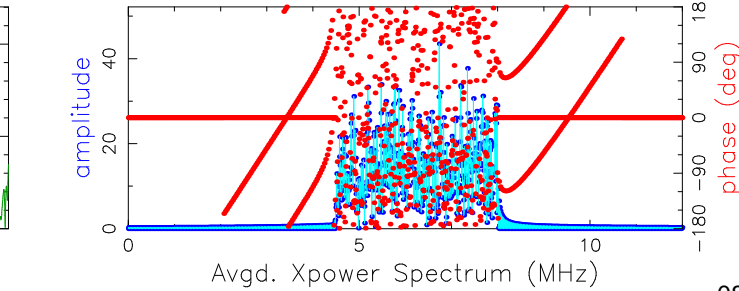
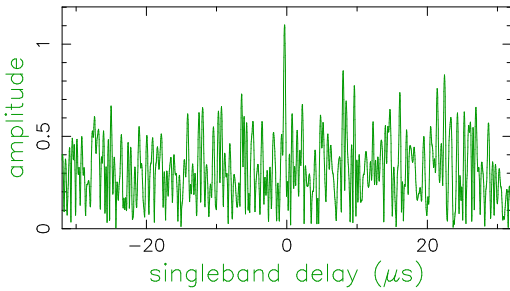
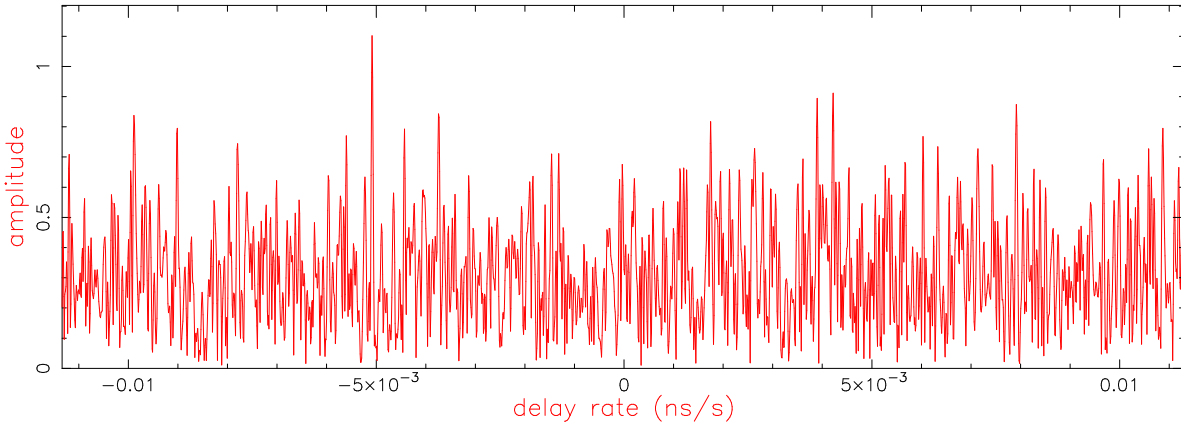
86227.00
-113.3
0.4
1579.4
U/L 583/0
f 0
n 0
f:n 0:0
f:n 0:0
f 1000
n 1000
f W03UR
n W03UL

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

Group delay (usec)(sbd)	3.02824425323E+03	Apriori delay (usec)	3.02736001086E+03	Resid mbdelay (usec)	6.57103E-06	+/-	5.2E-03
Sband delay (usec)	3.02824425486E+03	Apriori clock (usec)	4.7775822E+00	Resid sbdelay (usec)	8.84244E-01	+/-	5.2E-03
Phase delay (usec)	3.02736000721E+03	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-3.65207E-06	+/-	4.2E-07
Delay rate (us/s)	1.63349179890E-01	Apriori rate (us/s)	1.63344538151E-01	Resid rate (us/s)	4.64174E-06	+/-	2.4E-09
Total phase (deg)	-326.6	Apriori accel (us/s/s)	-1.96390639762E-05	Resid phase (deg)	-87.5	+/-	12.9

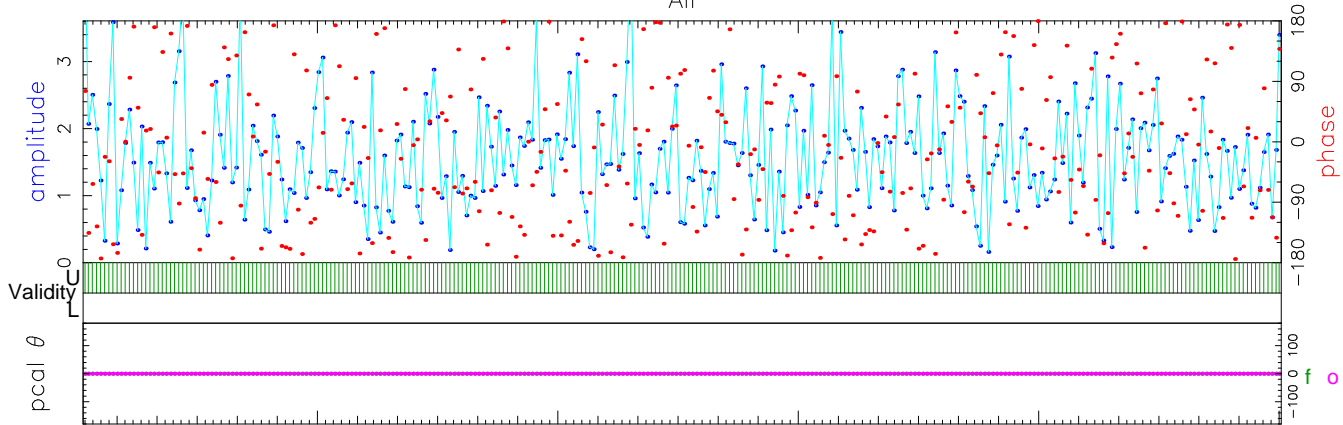
ph/seg (deg)	RMS 93.3	Theor. 110.0	Amplitude Search (2048X8)	1.320 +/- 0.148	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	72.8	192.1	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.000	0.000
ph/frq (deg)	0.0	6.4	Inc. seg. avg.	0.582	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.8	11.2	Inc. frq. avg.	1.310	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

Fringe quality 8



SNR 8.0
Int time 297.960
Amp 1.202
Phase 219.4
PFD 2.2e-08
Delays (us)
SBD -0.320408
MBD -0.000005
Fringe rate (Hz)
-0.437581
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052005
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



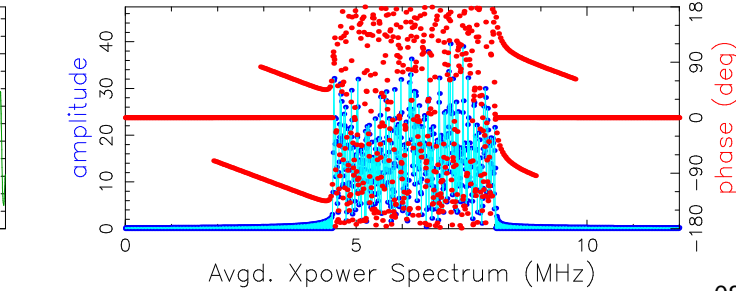
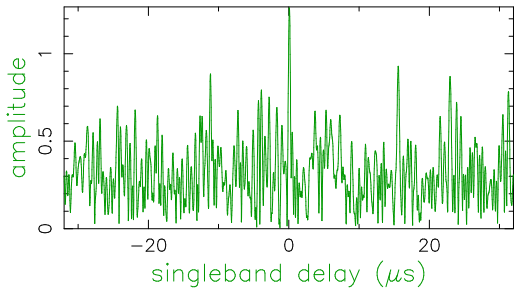
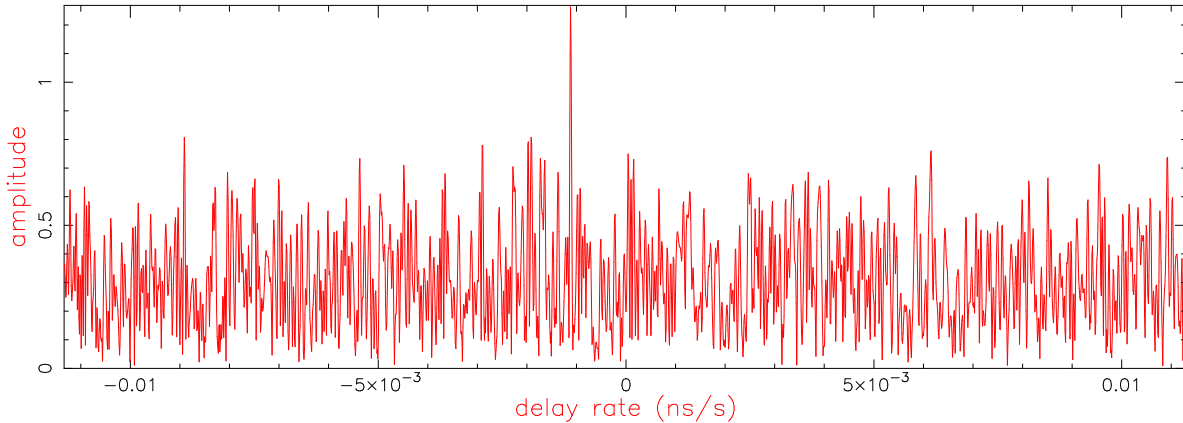
86227.00
-95.4
0.4
1521.6
U/L 583/0
f 0
o 0
f:o 0:0
f:o 0:0
f 1000
o 1000
f W03UL
o W03UL

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)	-1.30773498820E+01	Apriori delay (usec)	-1.27569465241E+01	Resid mbdelay (usec)	-4.87476E-06	+/-	5.8E-03
Sband delay (usec)	-1.30773545241E+01	Apriori clock (usec)	6.5065823E+00	Resid sbdelay (usec)	-3.20408E-01	+/-	5.8E-03
Phase delay (usec)	-1.27569496019E+01	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-3.07781E-06	+/-	4.6E-07
Delay rate (us/s)	-3.27670934311E-01	Apriori rate (us/s)	-3.27665854434E-01	Resid rate (us/s)	-5.07988E-06	+/-	2.7E-09
Total phase (deg)	84.9	Apriori accel (us/s/s)	-2.07247501077E-06	Resid phase (deg)	219.4	+/-	14.3

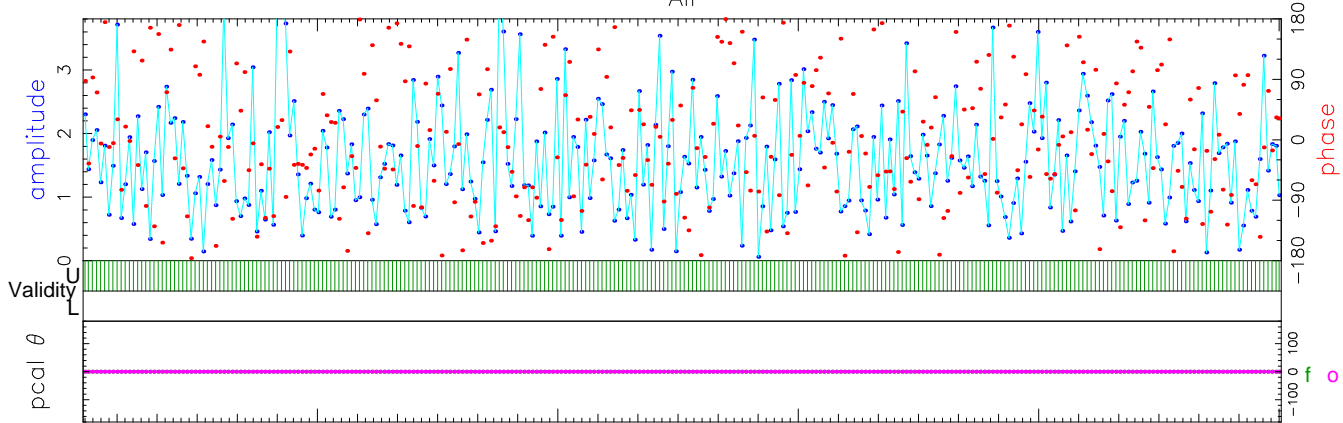
ph/seg (deg)	RMS 96.4	Theor. 122.6	Amplitude Search (2048X8)	1.202 +/- 0.151	1.096	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	84.3	213.9	Interp.	0.000	1.096	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.2	Inc. seg. avg.	0.522	1.096	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	12.5	Inc. frq. avg.	1.189	1.096	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
			f: az 225.9 el 64.5 pa 39.7		o: az 189.2 el 64.2 pa 8.2		dr window (ns/s) -0.011 0.011
			u,v (fr/asec) 1915.002 -863.937				ion window (TEC) 0.00 0.00

Fringe quality 8



SNR 9.1
Int time 297.960
Amp 1.269
Phase -319.9
PFD 1.2e-12
Delays (us)
SBD 0.078852
MBD -0.000006
Fringe rate (Hz)
-0.096027
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052006
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



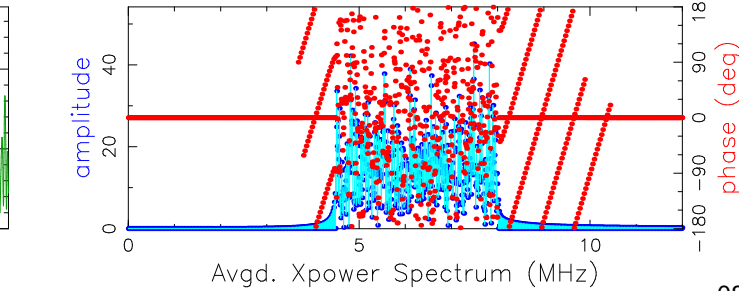
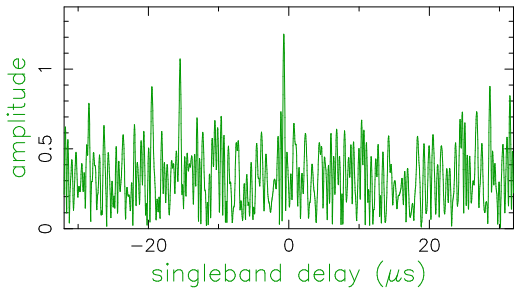
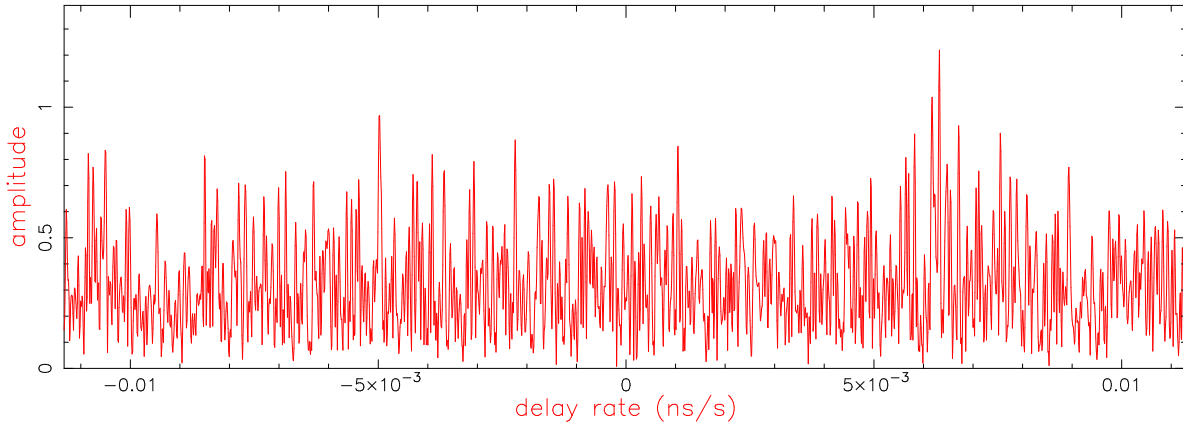
86227.00
-10.0
0.4
1540.8
U/L 583/0
f 0
o 0
f:o 0:0
f:o 0:0
f 1000
o 1000
f W03UR
o W03UR

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

Group delay (usec)(sbd)	-1.26780910149E+01	Apriori delay (usec)	-1.27569465241E+01	Resid mbdelay (usec)	-6.10027E-06	+/-	5.0E-03
Sband delay (usec)	-1.26780945241E+01	Apriori clock (usec)	6.5065823E+00	Resid sbdelay (usec)	7.88520E-02	+/-	5.0E-03
Phase delay (usec)	-1.27569468467E+01	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-3.22604E-07	+/-	4.0E-07
Delay rate (us/s)	-3.27666969217E-01	Apriori rate (us/s)	-3.27665854434E-01	Resid rate (us/s)	-1.11478E-06	+/-	2.3E-09
Total phase (deg)	-94.4	Apriori accel (us/s/s)	-2.07247501077E-06	Resid phase (deg)	-319.9	+/-	12.5

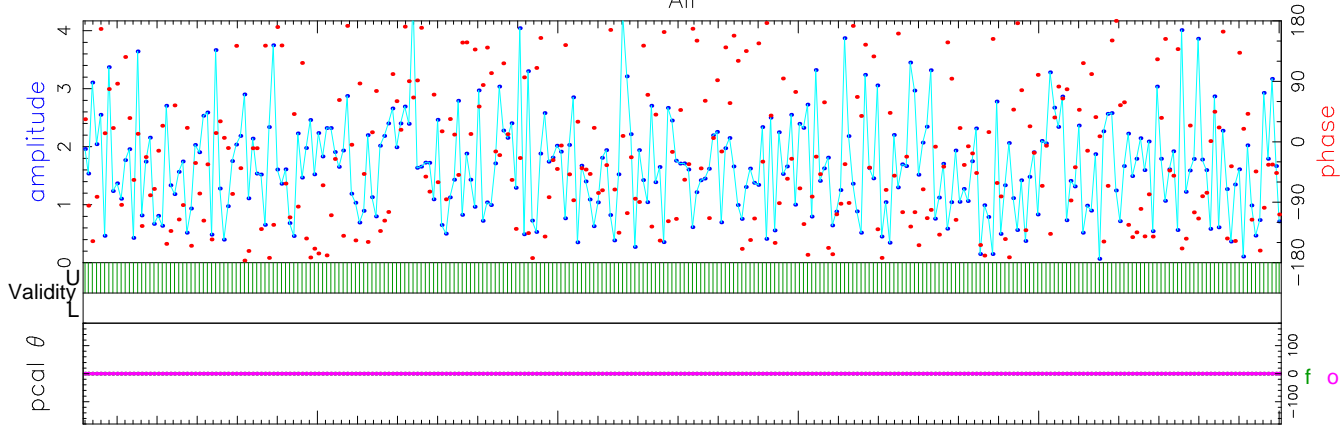
ph/seg (deg)	RMS 92.8	Theor. 107.2	Amplitude Search (2048X8)	1.269 +/- 0.139	1.237	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	72.6	187.1	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.3	Inc. seg. avg.	0.580	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.0	Inc. frq. avg.	1.261	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
f: az 225.9 el 64.5 pa 39.7		o: az 189.2 el 64.2 pa 8.2		u,v (fr/asec) 1915.002 -863.937		ion window (TEC) 0.00 0.00	

Fringe quality 8



SNR 8.8
Int time 297.960
Amp 1.390
Phase 292.7
PFD 2.1e-11
Delays (us)
SBD -0.713032
MBD 0.000006
Fringe rate (Hz)
0.543616
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052008
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



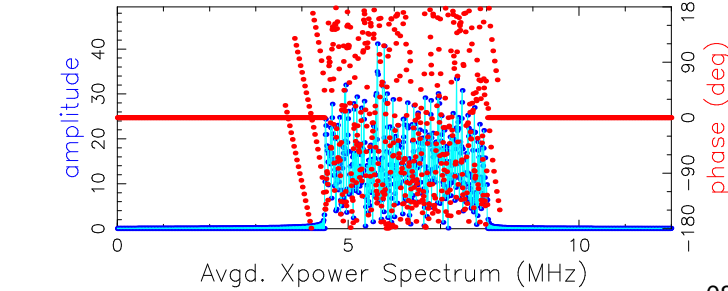
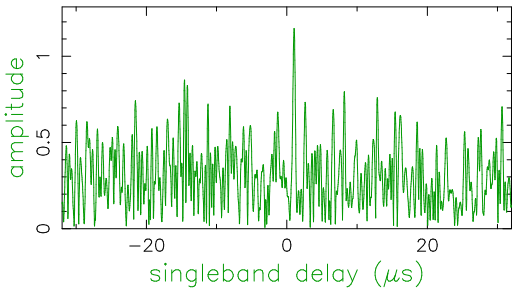
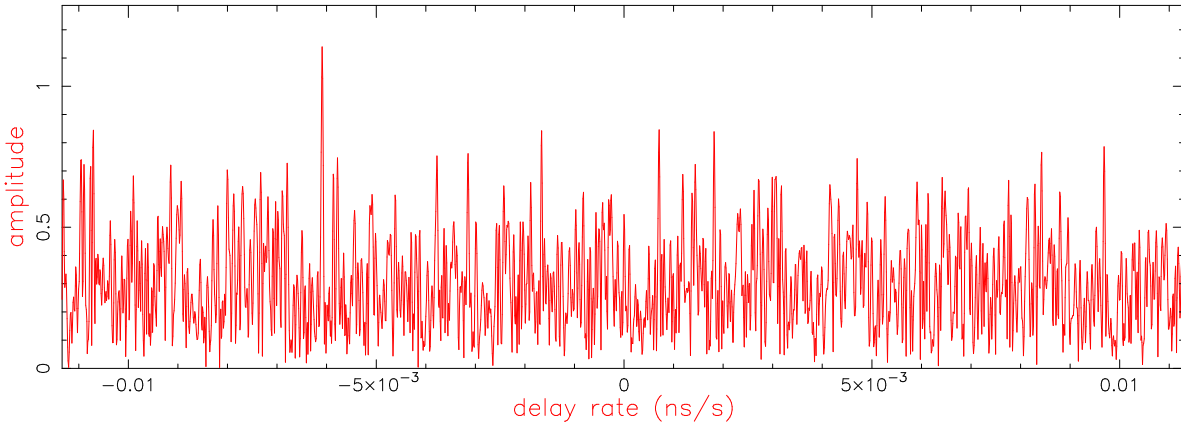
86227.00
-79.6
0.4
1502.8
U/L 583/0
f 0
o 0
f:o 0:0
f:o 0:0
f 1000
o 1000
f W03UL
o W03UR

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

Group delay (usec)(sbd)	-1.34699768651E+01	Apriori delay (usec)	-1.27569465241E+01	Resid mbdelay (usec)	6.17895E-06	+/-	5.2E-03
Sband delay (usec)	-1.34699785241E+01	Apriori clock (usec)	6.5065823E+00	Resid sbdelay (usec)	-7.13032E-01	+/-	5.2E-03
Phase delay (usec)	-1.27569490898E+01	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-2.56569E-06	+/-	4.2E-07
Delay rate (us/s)	-3.27659543595E-01	Apriori rate (us/s)	-3.27665854434E-01	Resid rate (us/s)	6.31084E-06	+/-	2.4E-09
Total phase (deg)	158.2	Apriori accel (us/s/s)	-2.07247501077E-06	Resid phase (deg)	292.7	+/-	13.0

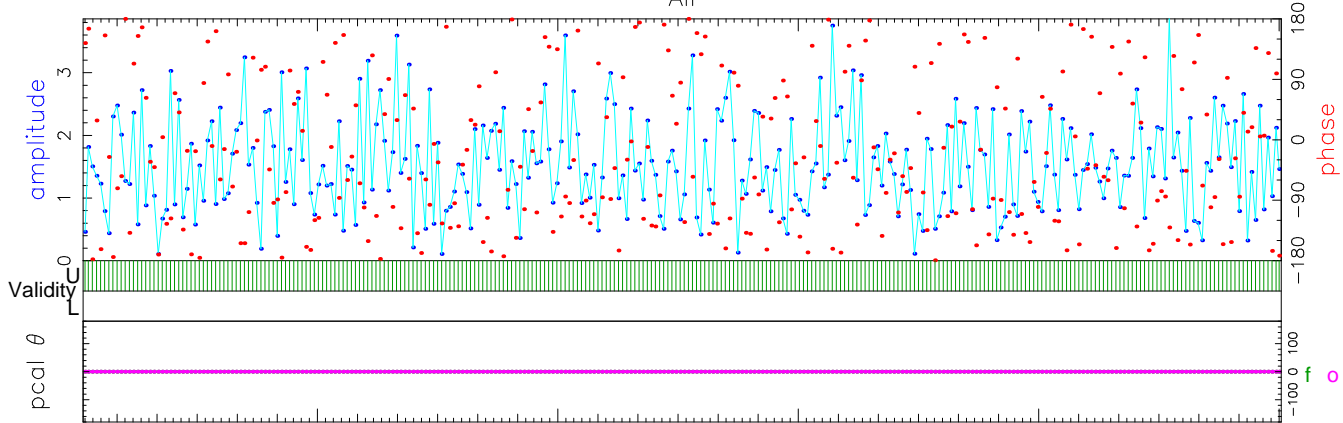
ph/seg (deg)	RMS 92.8	Theor. 111.1	Amplitude Search (2048X8)	1.390 +/- 0.158	1.210	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	80.2	193.9	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Inc. seg. avg.	0.664	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.3	Inc. frq. avg.	1.381	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
				f: az 225.9 el 64.5 pa 39.7	o: az 189.2 el 64.2 pa 8.2	u,v (fr/asec) 1915.002 -863.937	ion window (TEC) 0.00 0.00

Fringe quality 8



SNR 8.2
Int time 297.960
Amp 1.287
Phase -120.3
PFD 2.9e-09
Delays (us)
SBD 1.000000
MBD -0.000004
Fringe rate (Hz)
-0.523771
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052008
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-120.3
0.4
1586.8
U/L 583/0
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

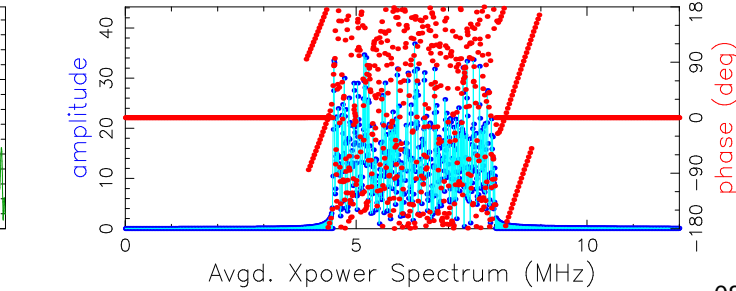
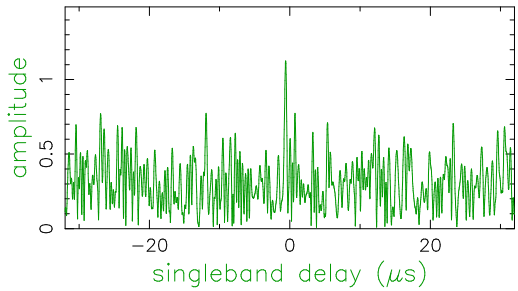
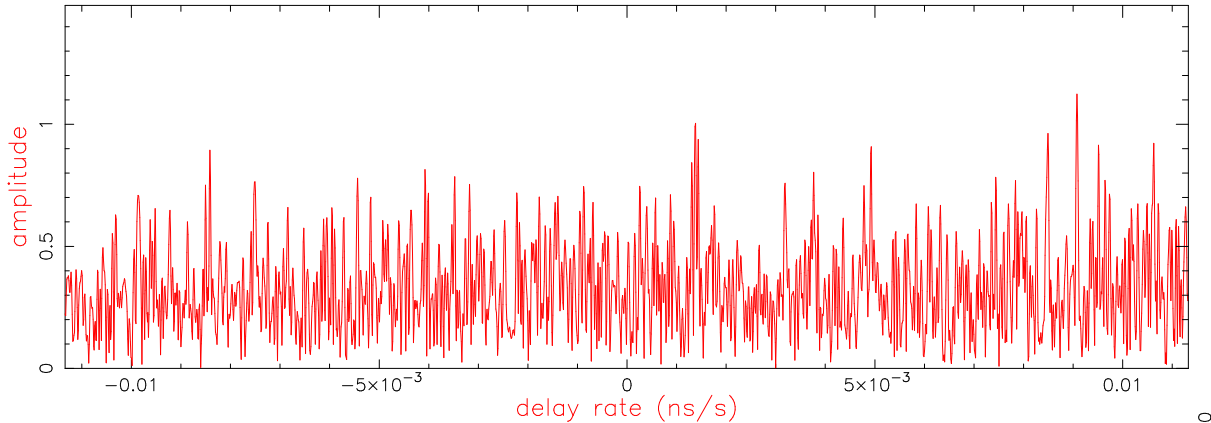
Group delay (usec)(sbd)	-1.17569508900E+01	Apriori delay (usec)	-1.27569465241E+01	Resid mbdelay (usec)	-4.36585E-06	+/-	5.6E-03
Sband delay (usec)	-1.17569465241E+01	Apriori clock (usec)	6.5065823E+00	Resid sbdelay (usec)	1.00000E+00	+/-	5.6E-03
Phase delay (usec)	-1.27569504024E+01	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-3.87828E-06	+/-	4.5E-07
Delay rate (us/s)	-3.27671934901E-01	Apriori rate (us/s)	-3.27665854434E-01	Resid rate (us/s)	-6.08047E-06	+/-	2.6E-09
Total phase (deg)	-254.8	Apriori accel (us/s/s)	-2.07247501077E-06	Resid phase (deg)	-120.3	+/-	13.9

ph/seg (deg)	RMS 93.4	Theor. 118.9	Amplitude Search (2048X8)	1.287 +/- 0.156	1.129	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	75.6	207.5	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.	0.553	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	dr window (ns/s)	-0.011	0.011	0.000
amp/frq (%)	70.7	12.1	Inc. frq. avg.	1.277	Data rate(Mb/s): 48		ion window (TEC)	0.00	0.00	0.000

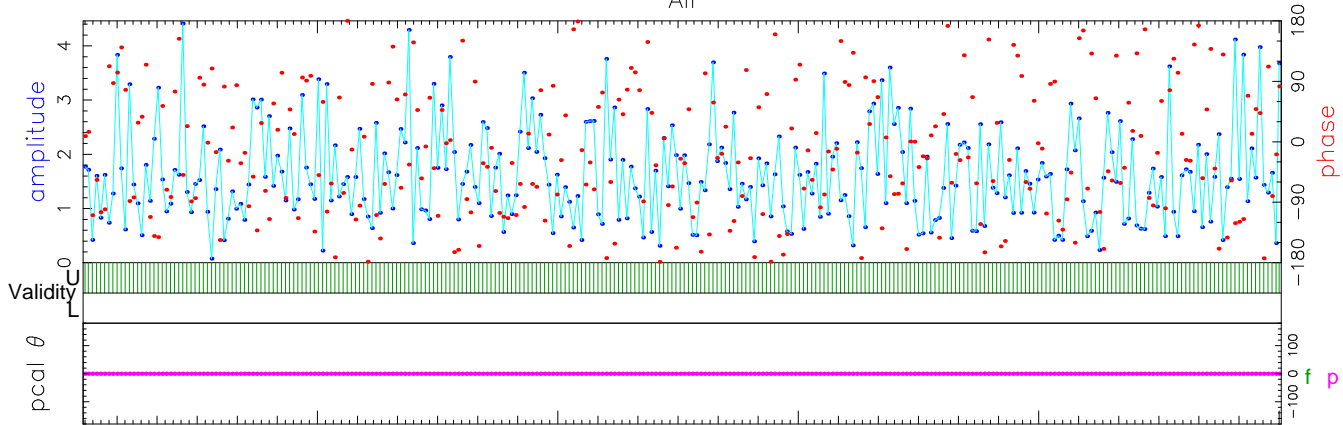
Fringe quality 8

SNR 8.1
Int time 297.960
Amp 1.488
Phase 195.0
PFD 6.6e-09
Delays (us)
SBD -0.593948
MBD 0.000007
Fringe rate (Hz)
0.780859
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052006
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"



Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-47.7
0.4
1508.5
U/L 583/0
f 0
p 0
f:p 0:0
f:p 0:0
f 1000
p 1000
f W03UL
p W03UL

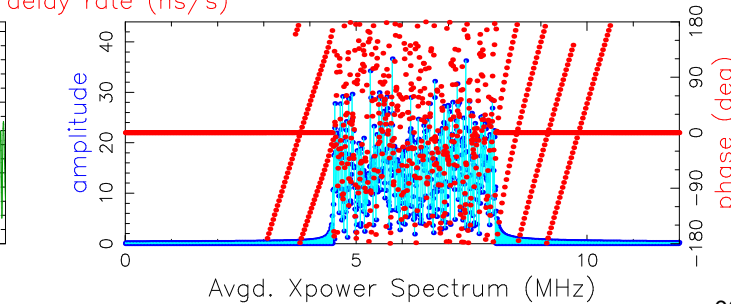
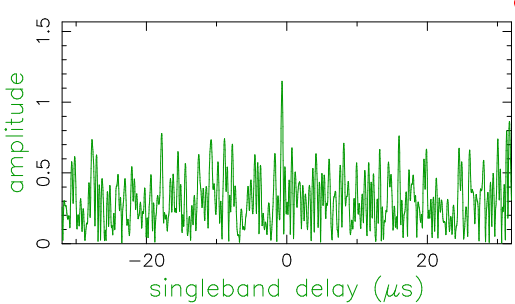
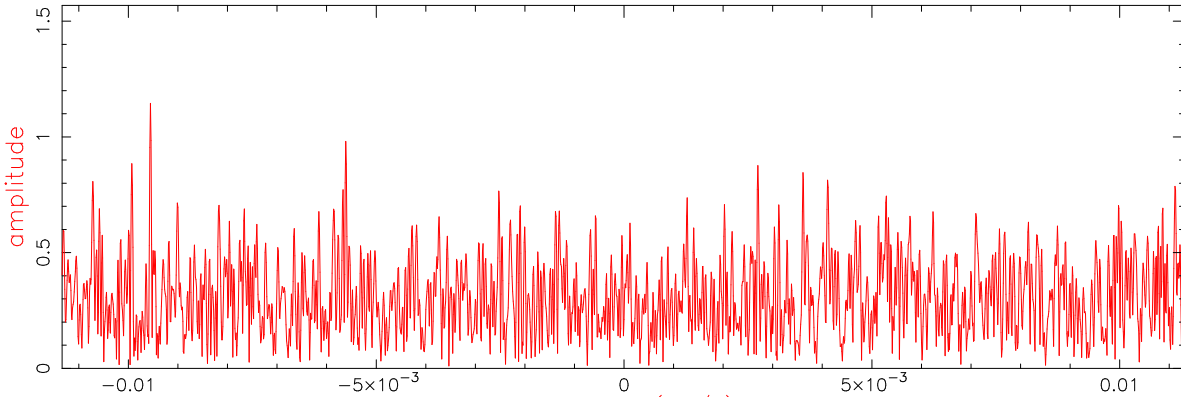
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	7.23616235622E+01	Apriori delay (usec)	7.2955718088E+01	Resid mbdelay (usec)	7.24297E-06	+/-	5.6E-03
Sband delay (usec)	7.23616238088E+01	Apriori clock (usec)	4.7305813E+00	Resid sbdelay (usec)	-5.93948E-01	+/-	5.6E-03
Phase delay (usec)	7.2955702701E+01	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-1.53872E-06	+/-	4.5E-07
Delay rate (us/s)	-1.04578302732E-01	Apriori rate (us/s)	-1.04587367729E-01	Resid rate (us/s)	9.06500E-06	+/-	2.6E-09
Total phase (deg)	179.0	Apriori accel (us/s/s)	-1.59406630518E-06	Resid phase (deg)	195.0	+/-	14.1

ph/seg (deg)	RMS 94.0	Theor. 120.3	Amplitude Search (2048X8)	1.488 +/- 0.183	1.115	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	89.5	210.0	Interp.	0.000	1.115	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.	0.668	1.115	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	12.3	Inc. frq. avg.	1.474	1.115	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
					1.115	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
					1.115	nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

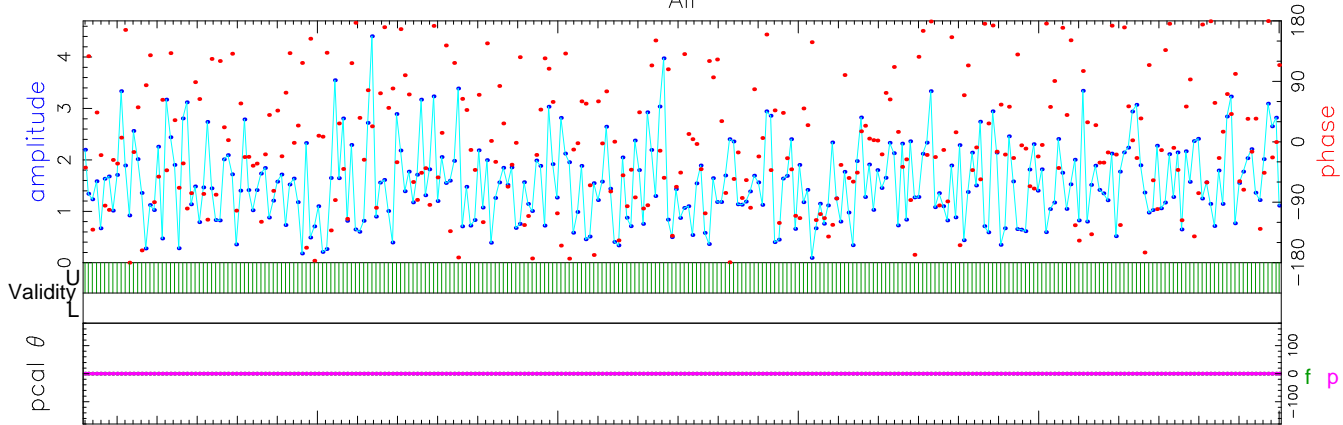
f: az 225.9 el 64.5 pa 39.7 p: az 213.2 el 63.9 pa 28.5 u,v (fr/asec) 610.486 -495.281 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/fp..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/fp.W.26.1T5H1A

Fringe quality 8



SNR 8.3
Int time 297.960
Amp 1.568
Phase 60.5
PFD 1.6e-09
Delays (us)
SBD -0.680777
MBD -0.000007
Fringe rate (Hz)
-0.822211
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052007
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-21.3
0.5
1504.3
U/L 583/0
f 0
p 0
f:p 0:0
fp 0:0
f 1000
p 1000
f W03UR
p W03UR

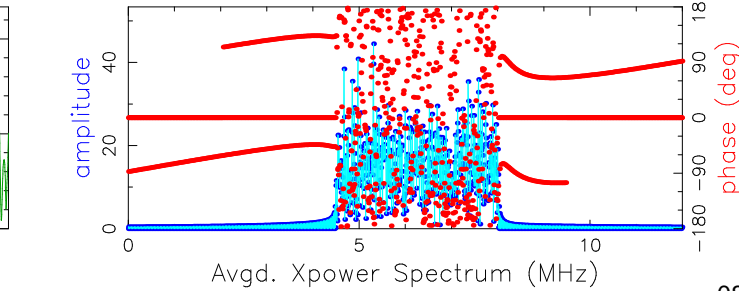
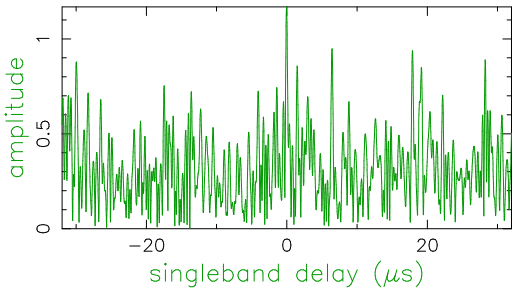
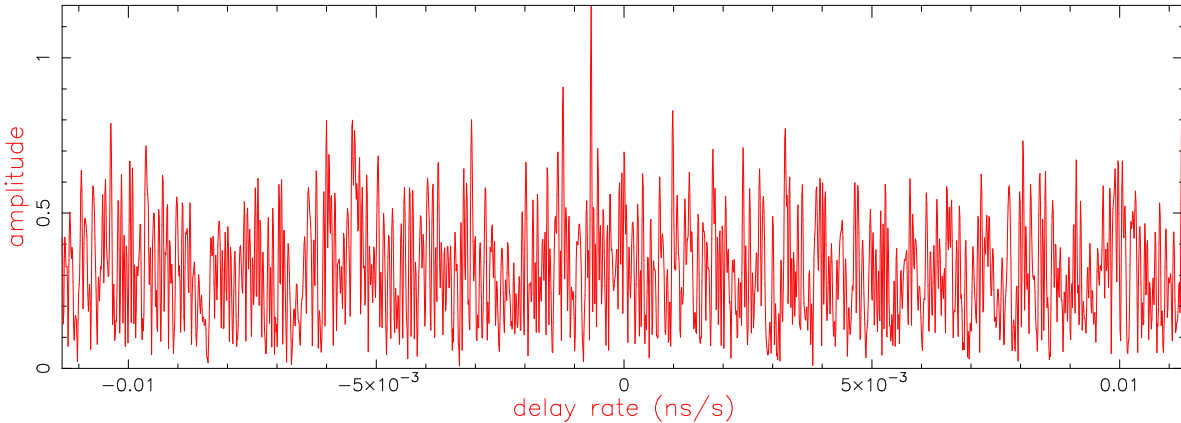
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	7.22747924103E+01	Apriori delay (usec)	7.2955718088E+01	Resid mbdelay (usec)	-6.55470E-06	+/-	5.5E-03
Sband delay (usec)	7.22747944755E+01	Apriori clock (usec)	4.7305813E+00	Resid sbdelay (usec)	-6.80777E-01	+/-	5.5E-03
Phase delay (usec)	7.29555711229E+01	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-6.85937E-07	+/-	4.4E-07
Delay rate (us/s)	-1.04596912780E-01	Apriori rate (us/s)	-1.04587367729E-01	Resid rate (us/s)	-9.54505E-06	+/-	2.6E-09
Total phase (deg)	44.6	Apriori accel (us/s/s)	-1.59406630518E-06	Resid phase (deg)	60.5	+/-	13.8

ph/seg (deg)	RMS 91.6	Theor. 117.9	Amplitude 1.568 +/- 0.189	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.4	205.7	Search (2048X8) 1.133	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	12.0	Inc. seg. avg. 0.684	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.551	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				nlags: 1536 t_cohere infinite	

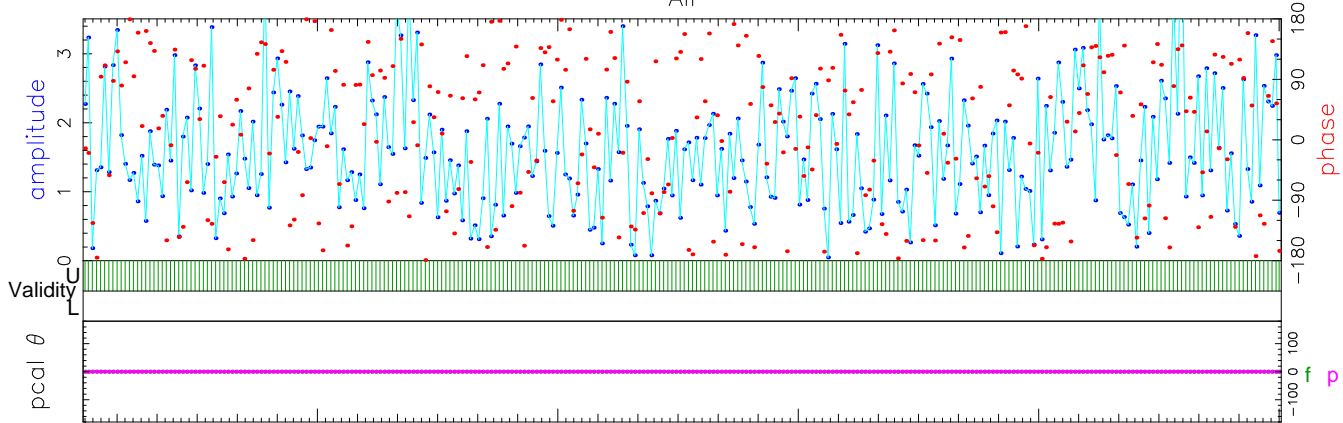
f: az 225.9 el 64.5 pa 39.7 p: az 213.2 el 63.9 pa 28.5 u,v (fr/asec) 610.486 -495.281 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/fp..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/fp.W.34.1T5H1A

Fringe quality 8



SNR 8.4
Int time 297.960
Amp 1.169
Phase 266.9
PFD 5.7e-10
Delays (us)
SBD -0.039173
MBD -0.000007
Fringe rate (Hz)
-0.057093
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052008
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
120.3
0.3
1535.1
U/L 583/0
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
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	7.29164010854E+01	Apriori delay (usec)	7.2955718088E+01	Resid mbdelay (usec)	-6.65648E-06	+/- 5.4E-03
Sband delay (usec)	7.29163984755E+01	Apriori clock (usec)	4.7305813E+00	Resid sbdelay (usec)	-3.91733E-02	+/- 5.4E-03
Phase delay (usec)	7.29555756880E+01	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	3.87921E-06	+/- 4.4E-07
Delay rate (us/s)	-1.04588030523E-01	Apriori rate (us/s)	-1.04587367729E-01	Resid rate (us/s)	-6.62794E-07	+/- 2.5E-09
Total phase (deg)	250.9	Apriori accel (us/s/s)	-1.59406630518E-06	Resid phase (deg)	266.9	+/- 13.6

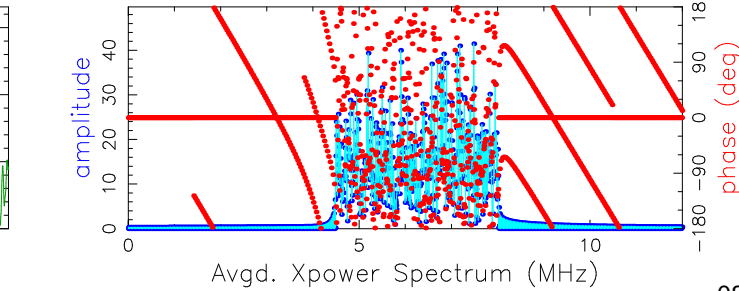
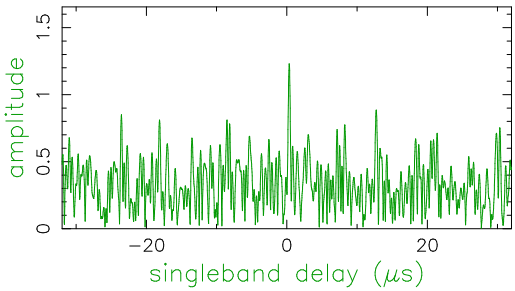
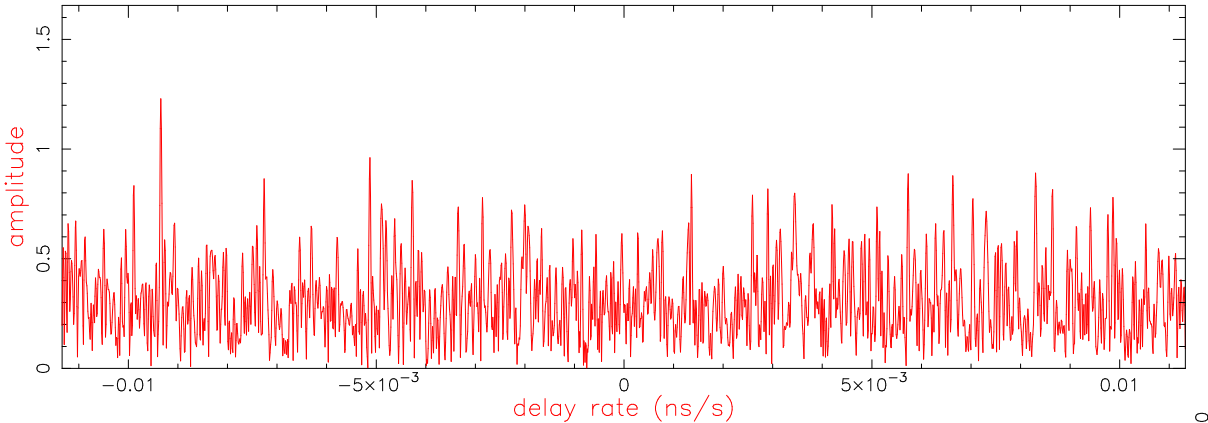
ph/seg (deg)	RMS 92.2	Theor. 116.1	Amplitude Search (2048X8)	1.169 +/- 0.139	1.154	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	82.5	202.6	Interp.	0.000	1.154	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.8	Inc. seg. avg.	0.523	1.154	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.9	Inc. frq. avg.	1.161	1.154	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 225.9 el 64.5 pa 39.7 p: az 213.2 el 63.9 pa 28.5 u,v (fr/asec) 610.486 -495.281 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/fp..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/fp.W.46.1T5H1A

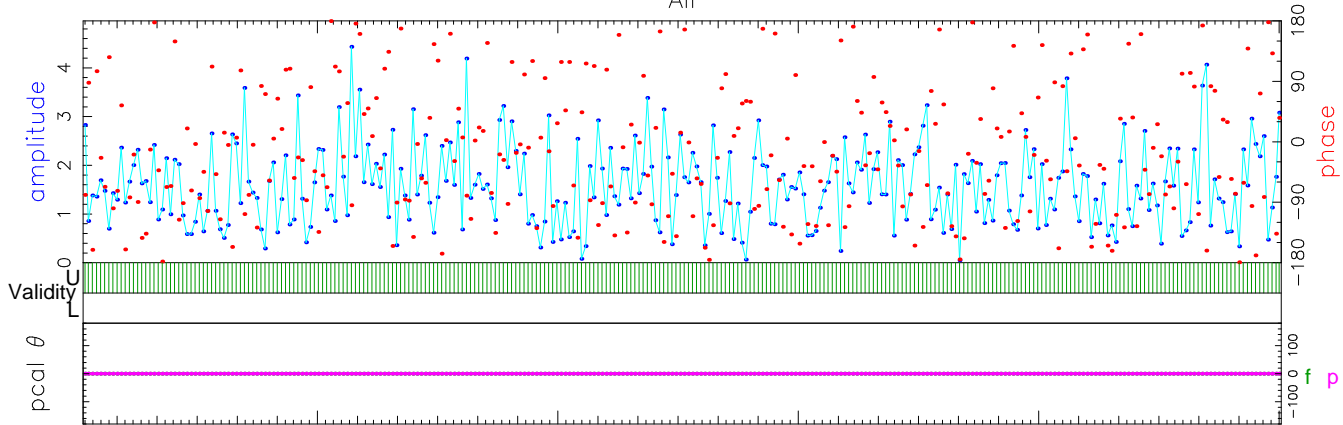
Fringe quality 8

SNR 8.9
Int time 297.960
Amp 1.655
Phase -42.3
PFD 1.0e-11
Delays (us)
SBD 0.344009
MBD -0.000006
Fringe rate (Hz)
-0.803638
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020701.54
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052010
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"



Amp. and Phase vs. time for each freq., 292 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec
All



86227.00
-67.9
0.5
1553.5
U/L 583/0
f 0
p 0
f:p 0:0
fp 0:0
f 1000
p 1000
f W03UR
p W03UL

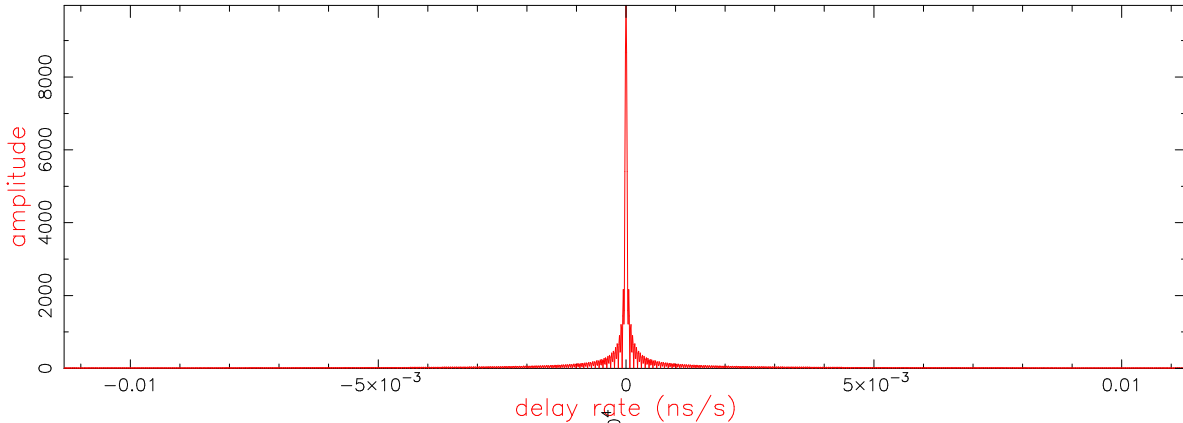
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	7.32995768253E+01	Apriori delay (usec)	7.2955718088E+01	Resid mbdelay (usec)	-5.56021E-06	+/-	5.2E-03
Sband delay (usec)	7.32995811421E+01	Apriori clock (usec)	4.7305813E+00	Resid sbdelay (usec)	3.44009E-01	+/-	5.2E-03
Phase delay (usec)	7.29555696198E+01	Apriori clockrate (us/s)	1.4999999E-07	Resid phdelay (usec)	-2.18901E-06	+/-	4.2E-07
Delay rate (us/s)	-1.04596697169E-01	Apriori rate (us/s)	-1.04587367729E-01	Resid rate (us/s)	-9.32944E-06	+/-	2.4E-09
Total phase (deg)	-58.3	Apriori accel (us/s/s)	-1.59406630518E-06	Resid phase (deg)	-42.3	+/-	12.9

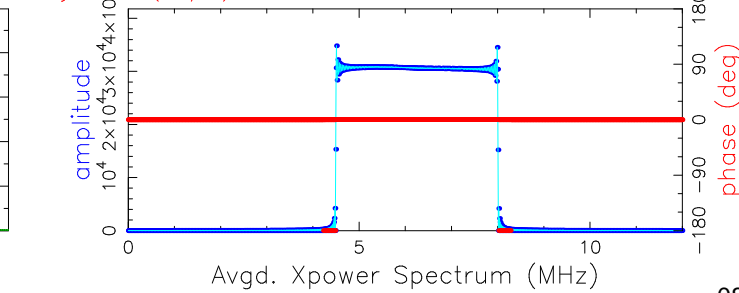
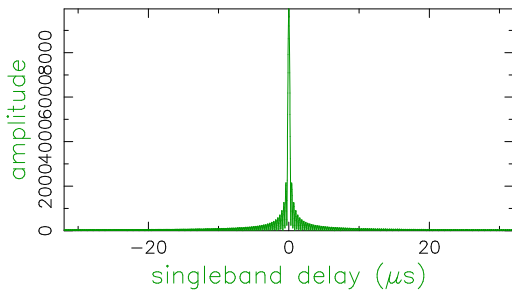
ph/seg (deg)	RMS 93.6	Theor. 110.0	Amplitude Search (2048X8)	1.655 +/- 0.186	1.206	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	72.7	192.0	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.4	Inc. seg. avg.	0.749	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.8	11.2	Inc. frq. avg.	1.642	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

f: az 225.9 el 64.5 pa 39.7 p: az 213.2 el 63.9 pa 28.5 u,v (fr/asec) 610.486 -495.281 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/fp..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/fp.W.67.1T5H1A

Fringe quality 5

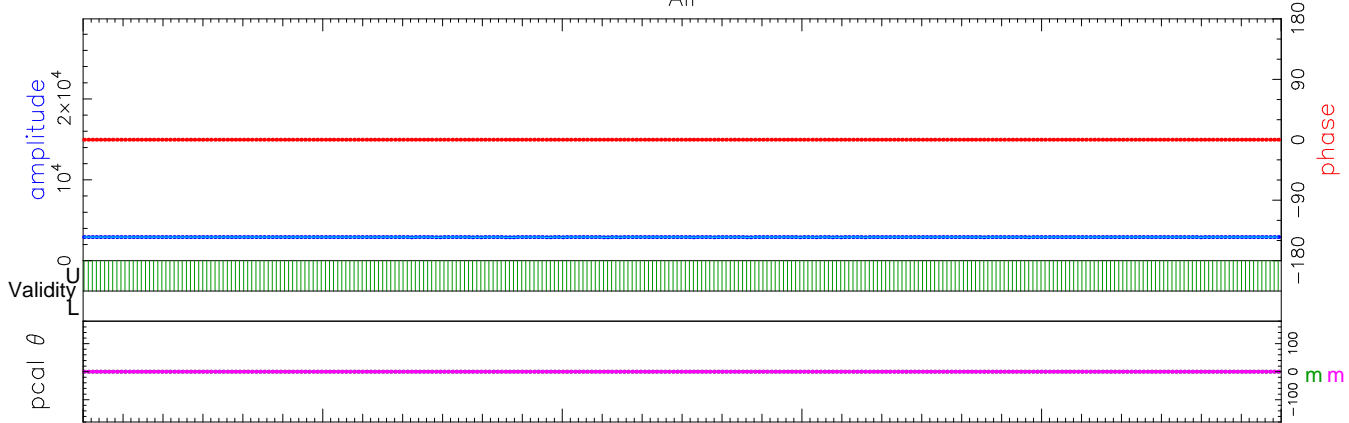


SNR 72274.9
Int time 299.976
Amp 9967.620
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052008
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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

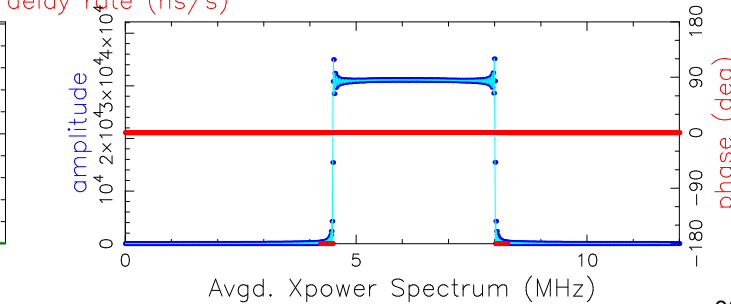
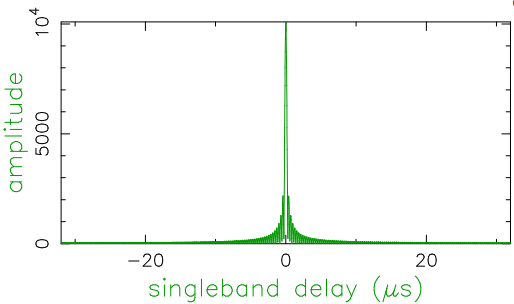
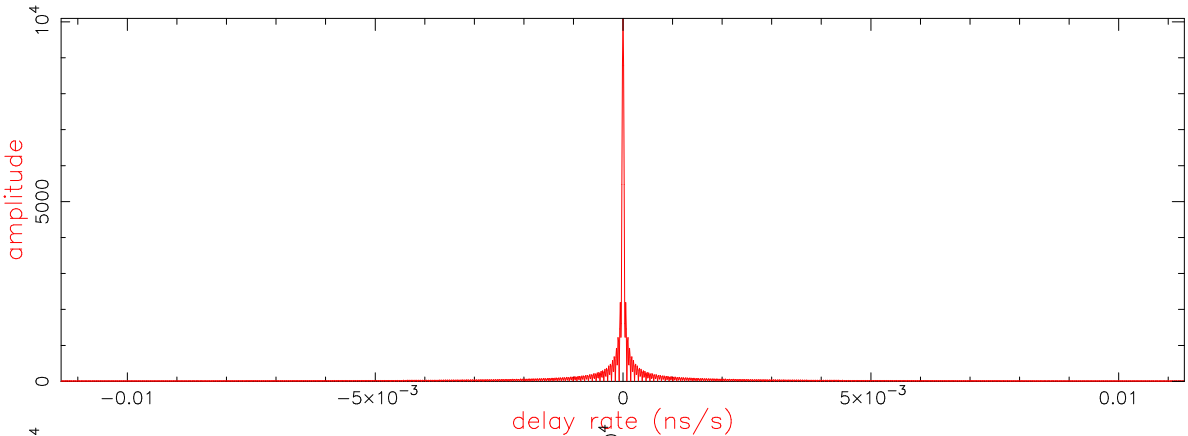


86227.00	0.2	2920.2	1537.0	U/L 586/0	m 0	m 0	m:m 0:0	m:m 0:0	m 1000	m 1000	m W03UL	m W03UL	86227.00	0.2	2920.2	1537.0	U/L 586/0	m 0	m 0	m:m 0:0	m:m 0:0	m 1000	m 1000	m W03UL	m W03UL													
													86227.00	0.2	2920.2	1537.0	U/L 586/0	m 0	m 0	m:m 0:0	m:m 0:0	m 1000	m 1000	m W03UL	m W03UL	86227.00	0.2	2920.2	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 W03UL

Group delay (usec)(sbd)	4.40697229406E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-7.19032E-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)	7.76294473121E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.76294E-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	+/-	3.0E-13
Total phase (deg)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

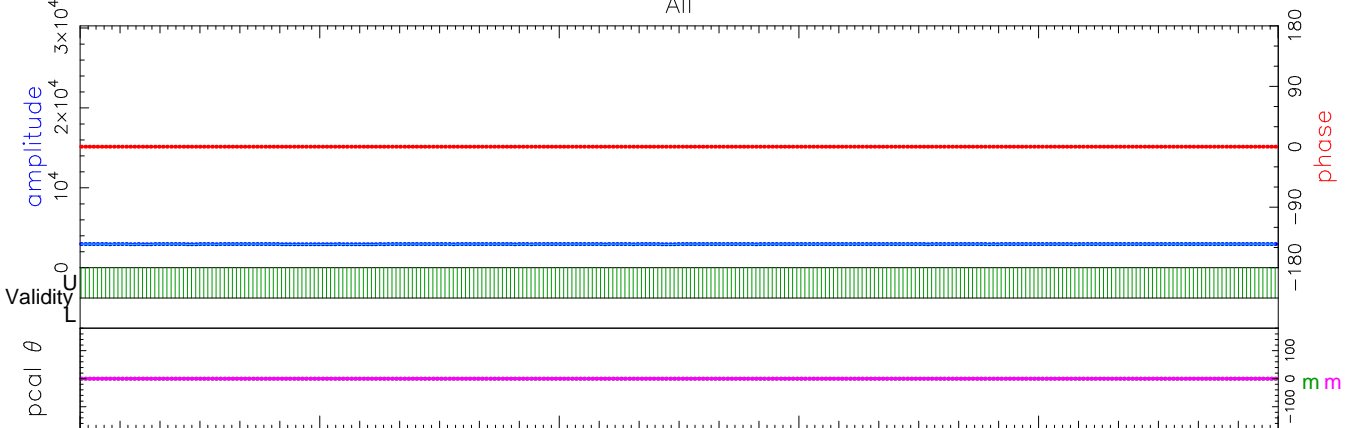
ph/seg (deg)	0.0	0.0	Amplitude	9967.620 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	70.7	0.0	Search (2048X8)	9967.620	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	0.0	Inc. seg. avg.	2920.201	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	9967.620	Data rate(Mb/s): 48	ion window (TEC)	0.00 0.00

m: az 99.3 el 57.2 pa -71.6 m: az 99.3 el 57.2 pa -71.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/mm..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/mm.W.44.1T5H1A



Fringe quality 5
SNR 73197.0
Int time 299.976
Amp 10094.790
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 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052010
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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

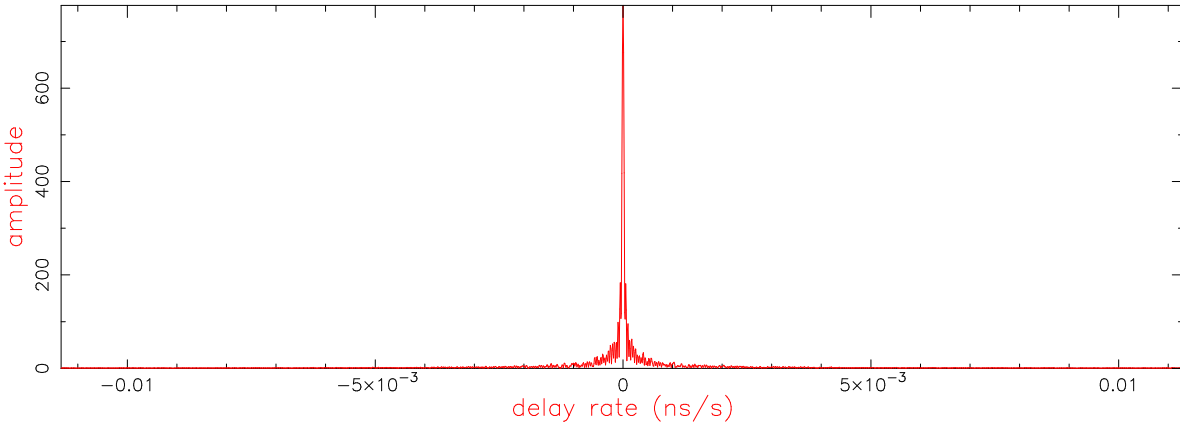


86227.00	0.2	2957.5	1537.0	U/L 586/0	m 0	m 0	m:m 0:0	m:m 0:0	m 1000	m 1000	m W03UR	m W03UR

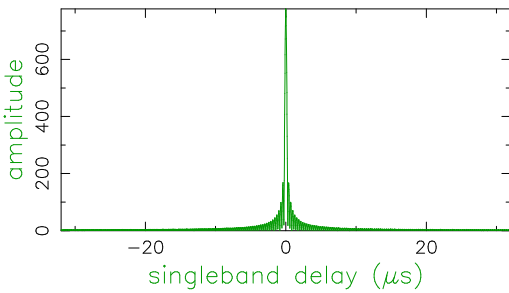
Group delay (usec)(sbd)	4.76648845489E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.83081E-06	+/-	6.3E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	7.37479749465E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.37480E-09	+/-	5.0E-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 0.0 RMS Theor. Amplitude 10094.790 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 70.7 0.0 Search (2048X8) 10094.790 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. 2957.458 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011
m: az 99.3 el 57.2 pa -71.6 m: az 99.3 el 57.2 pa -71.6 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/No0020/mm..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/mm.W.62.1T5H1A simultaneous interpolator

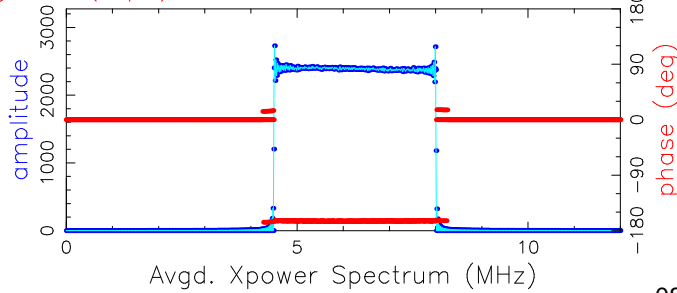
Fringe quality 5



SNR 5635.9
Int time 299.976
Amp 777.256
Phase -173.7
PFD 0.0e+00
Delays (us)
SBD 0.000320
MBD -0.000007
Fringe rate (Hz)
0.000030
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

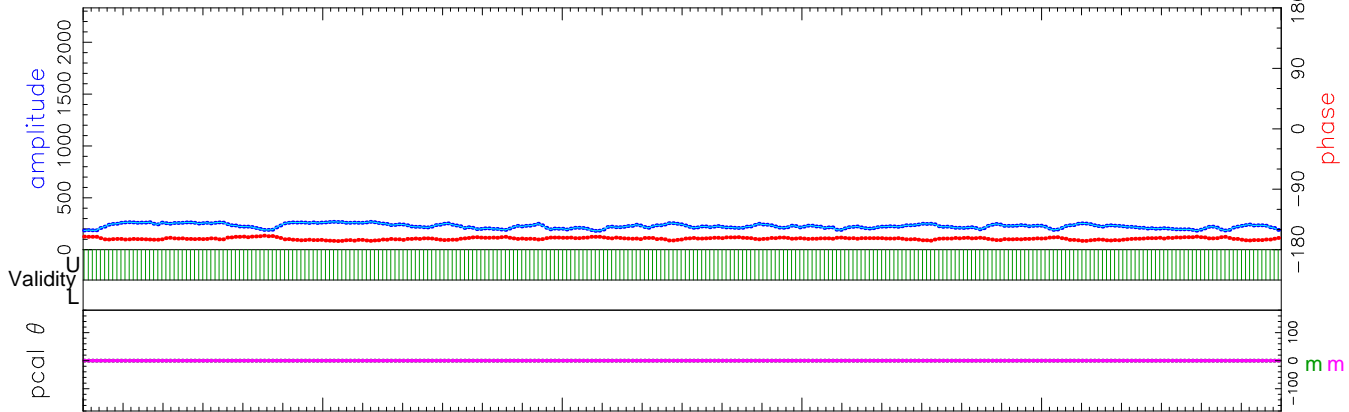


delay rate (ns/s)



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052011
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
-163.6
227.7
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

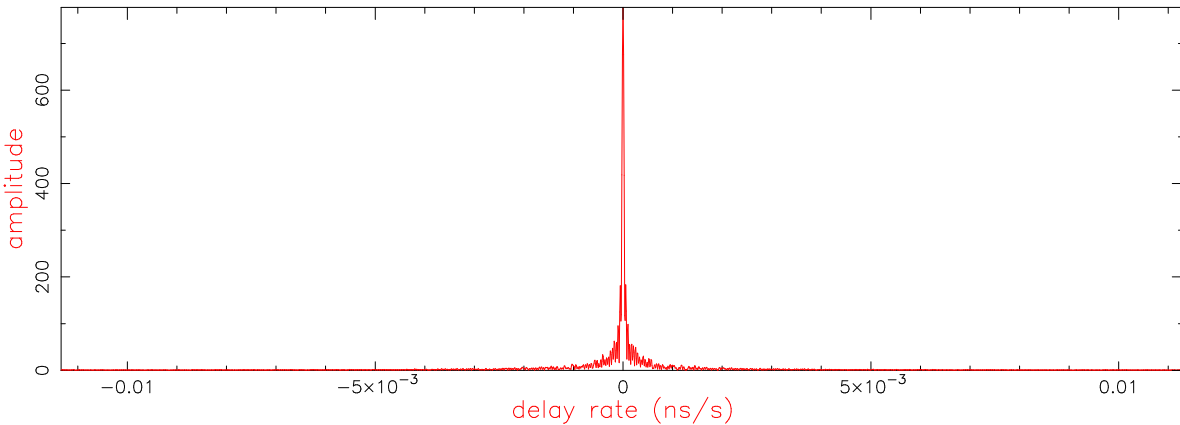
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	3.18041912626E-04	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.68236E-06	+/-	8.2E-06
Sband delay (usec)	3.2000000000E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	3.20000E-04	+/-	8.2E-06
Phase delay (usec)	-5.27452935409E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.27453E-06	+/-	6.6E-10
Delay rate (us/s)	3.47901791216E-10	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	3.47902E-10	+/-	3.8E-12
Total phase (deg)	-173.7	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-173.7	+/-	0.0

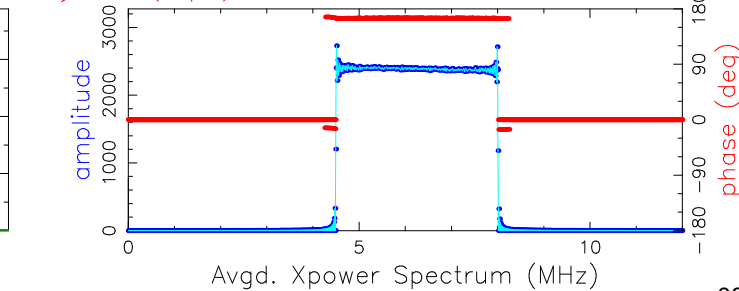
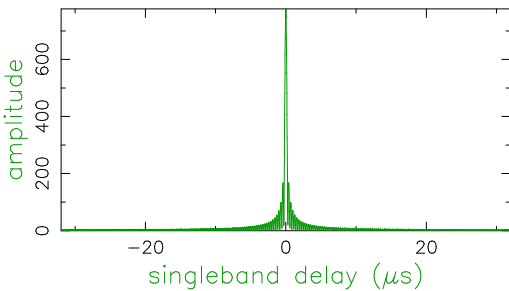
ph/seg (deg)	1.6	Theor.	0.2	Amplitude	777.256 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.3	Search (2048X8)	777.151	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	227.795	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	777.255	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

m: az 99.3 el 57.2 pa -71.6 m: az 99.3 el 57.2 pa -71.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/mm..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/mm.W.76.1T5H1A

Fringe quality 5

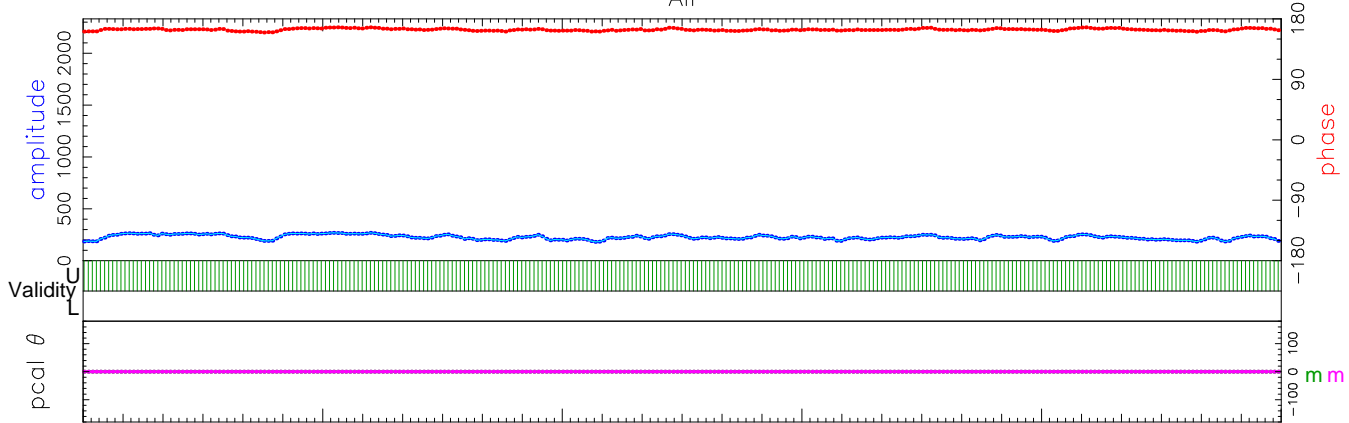


SNR 5635.9
Int time 299.976
Amp 777.256
Phase 173.8
PFD 0.0e+00
Delays (us)
SBD -0.000320
MBD -0.000006
Fringe rate (Hz)
-0.000030
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052012
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
164.0
227.7
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
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)	-3.19037888364E-04	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-5.91091E-06	+/- 8.2E-06
Sband delay (usec)	-3.20000000000E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-3.20000E-04	+/- 8.2E-06
Phase delay (usec)	5.28812552563E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.28813E-06	+/- 6.6E-10
Delay rate (us/s)	-3.47901791216E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-3.47902E-10	+/- 3.8E-12
Total phase (deg)	173.8	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	173.8	+/- 0.0

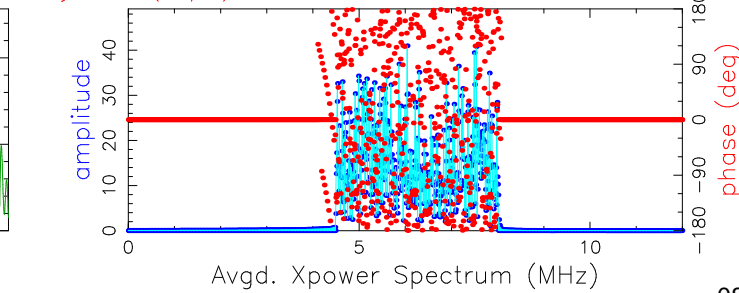
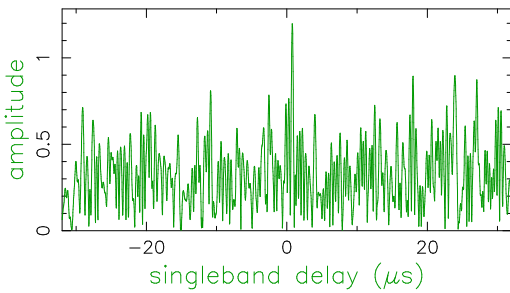
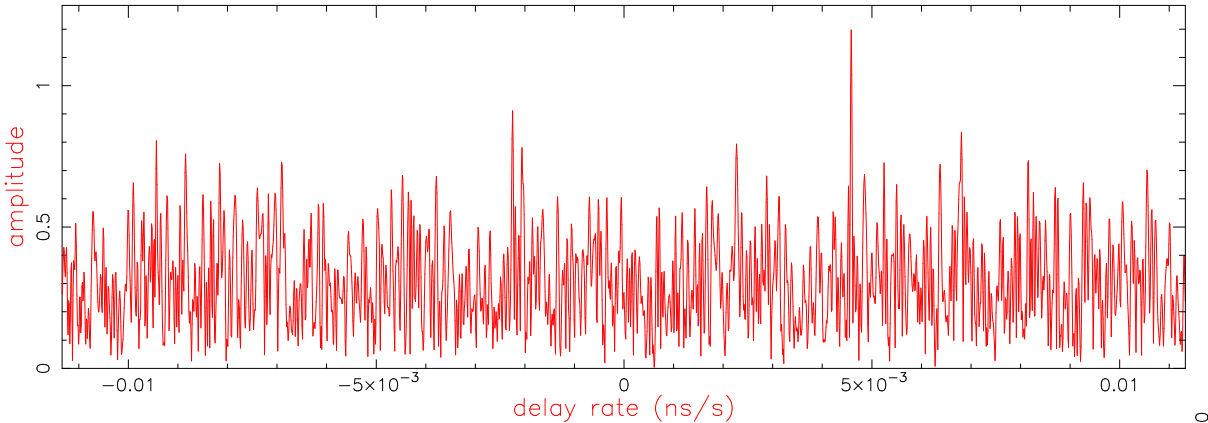
ph/seg (deg)	1.6	Theor.	0.2	Amplitude	777.256 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.3	Search (2048X8)	777.151	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	227.795	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	777.255	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

m: az 99.3 el 57.2 pa -71.6 m: az 99.3 el 57.2 pa -71.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/mm..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/mm.W.80.1T5H1A

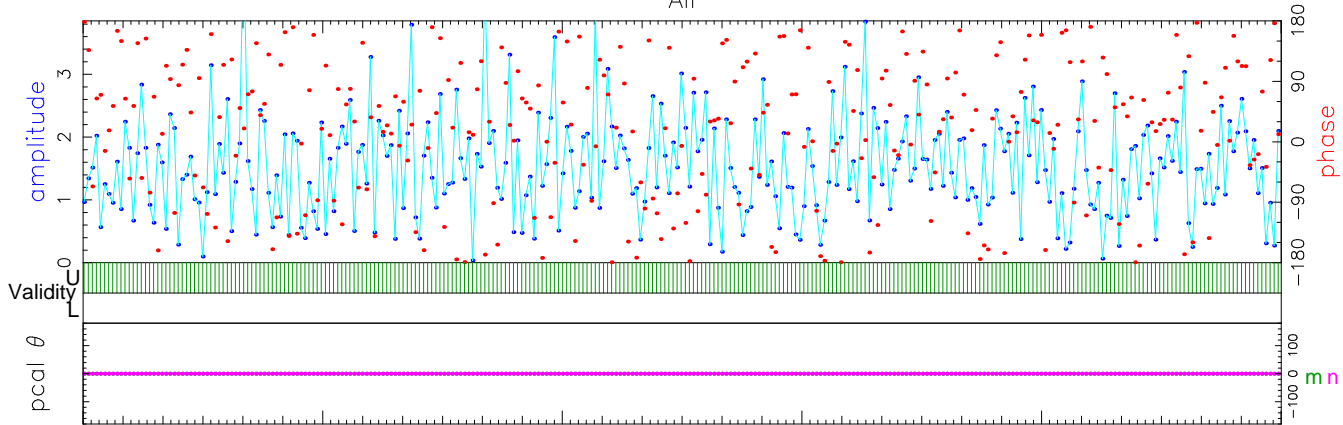
Fringe quality 8

SNR 8.7
Int time 299.976
Amp 1.284
Phase -245.2
PFD 5.9e-11
Delays (us)
SBD 0.780207
MBD 0.000004
Fringe rate (Hz)
0.394733
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052010
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"



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



86227.00
71.0
0.4
1574.5
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

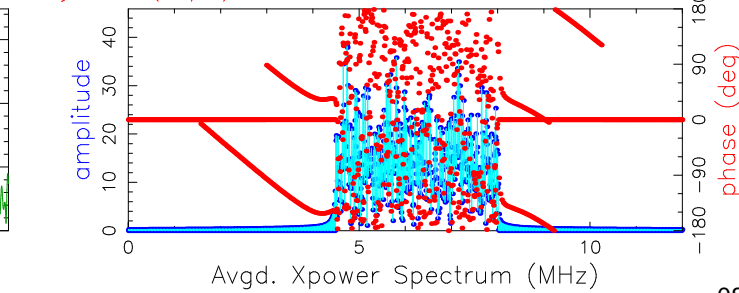
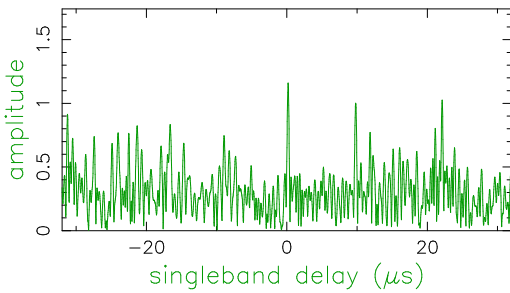
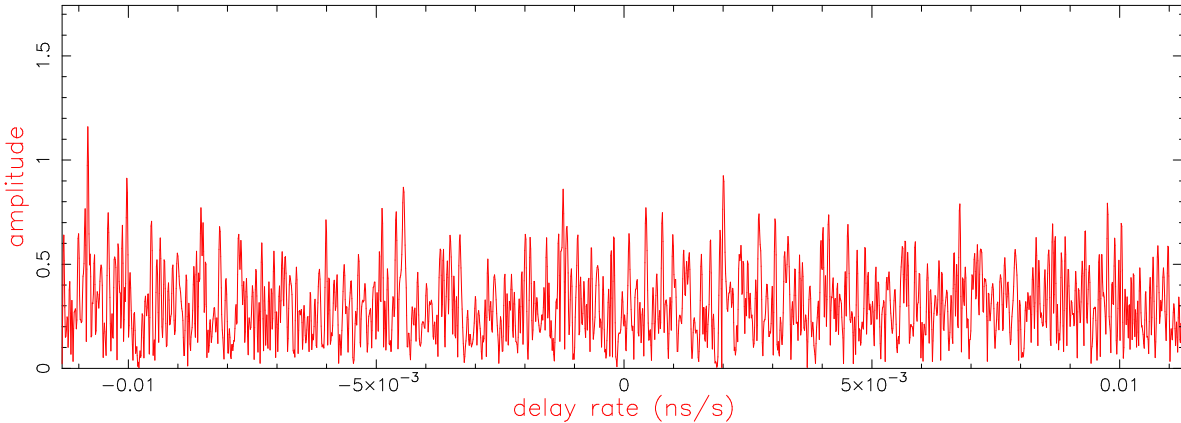
Group delay (usec)(sbd)	1.96321837515E+03	Apriori delay (usec)	1.96243816273E+03	Resid mbdelay (usec)	4.36534E-06	+/-	5.3E-03
Sband delay (usec)	1.96321836939E+03	Apriori clock (usec)	1.0233000E+01	Resid sbdelay (usec)	7.80207E-01	+/-	5.3E-03
Phase delay (usec)	1.96243816502E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.28811E-06	+/-	4.2E-07
Delay rate (us/s)	1.35866432702E+00	Apriori rate (us/s)	1.35865974457E+00	Resid rate (us/s)	4.58246E-06	+/-	2.5E-09
Total phase (deg)	-123.7	Apriori accel (us/s/s)	-1.78319098166E-05	Resid phase (deg)	-245.2	+/-	13.2

ph/seg (deg)	RMS 90.0	Theor. 112.8	Amplitude Search (2048X8)	1.284 +/- 0.148	1.187	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.3	196.8	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	6.6	Inc. seg. avg.	0.563	Sample rate(MSamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.8	11.5	Inc. frq. avg.	1.273	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
			m: az 99.3 el 57.2 pa -71.6		n: az 230.7 el 49.7 pa 36.0		ion window (TEC) 0.00 0.00

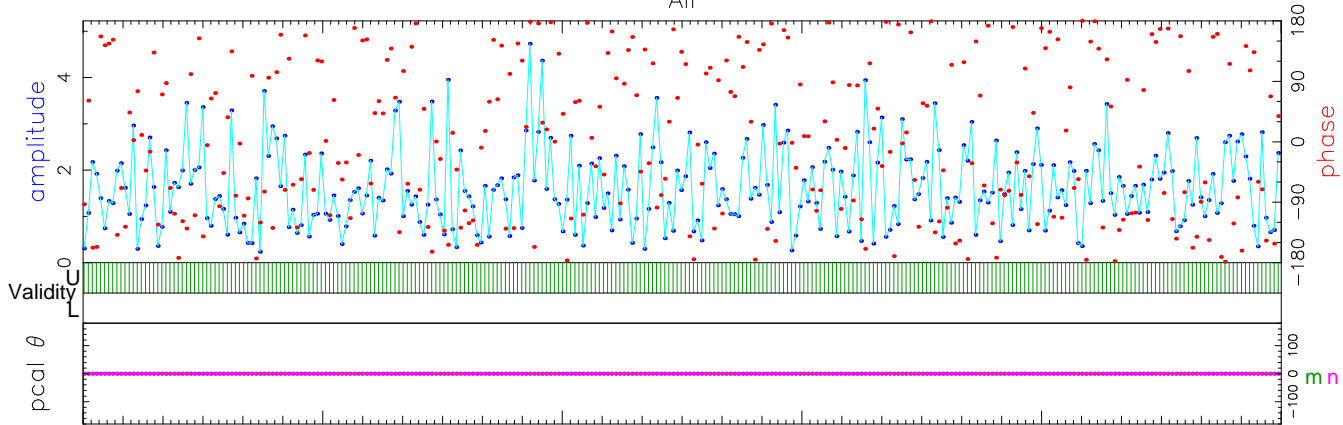
Fringe quality 8

SNR 8.4
Int time 299.976
Amp 1.743
Phase -154.5
PFD 6.6e-10
Delays (us)
SBD 0.183289
MBD -0.000007
Fringe rate (Hz)
-0.930911
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052011
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"



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



86227.00
-173.7
0.5
1545.8
U/L 586/0
m 0
n 0
m:n 0:0
m:n 0:0
m 1000
n 1000
m W03UR
n W03UR

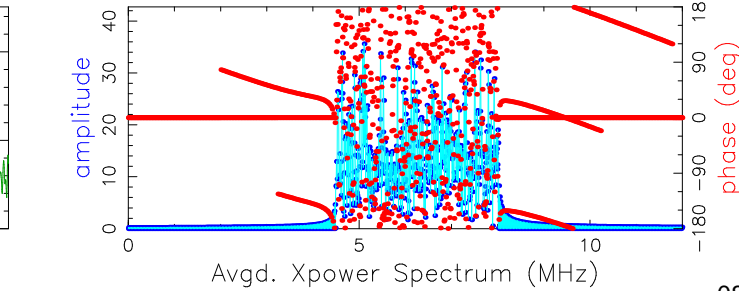
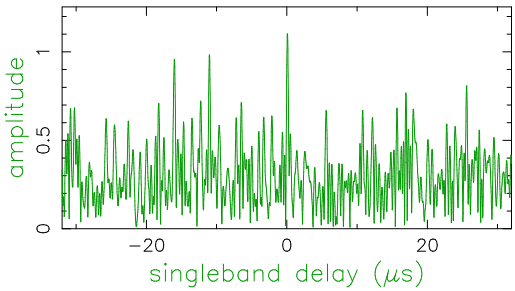
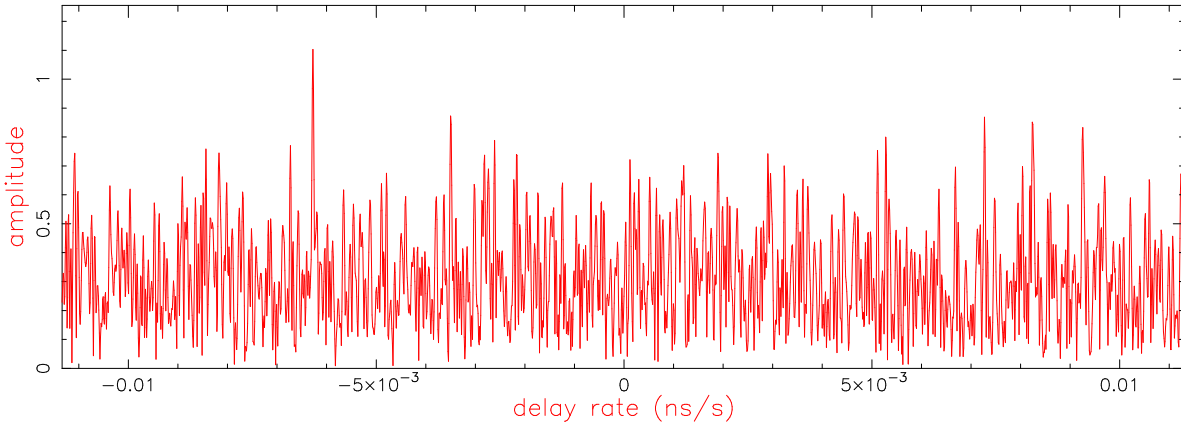
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.96262145128E+03	Apriori delay (usec)	1.96243816273E+03	Resid mbdelay (usec)	-6.70324E-06	+/- 5.5E-03
Sband delay (usec)	1.96262145206E+03	Apriori clock (usec)	1.0233000E+01	Resid sbdelay (usec)	1.83289E-01	+/- 5.5E-03
Phase delay (usec)	1.96243815713E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.60178E-06	+/- 4.4E-07
Delay rate (us/s)	1.35864893762E+00	Apriori rate (us/s)	1.35865974457E+00	Resid rate (us/s)	-1.08070E-05	+/- 2.5E-09
Total phase (deg)	-33.1	Apriori accel (us/s/s)	-1.78319098166E-05	Resid phase (deg)	-154.5	+/- 13.6

ph/seg (deg)	RMS 94.2	Theor. 116.5	Amplitude 1.743 +/- 0.207	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	83.2	203.4	Search (2048X8) 1.154	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	11.9	Inc. seg. avg. 0.789	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
			Inc. frq. avg. 1.730	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

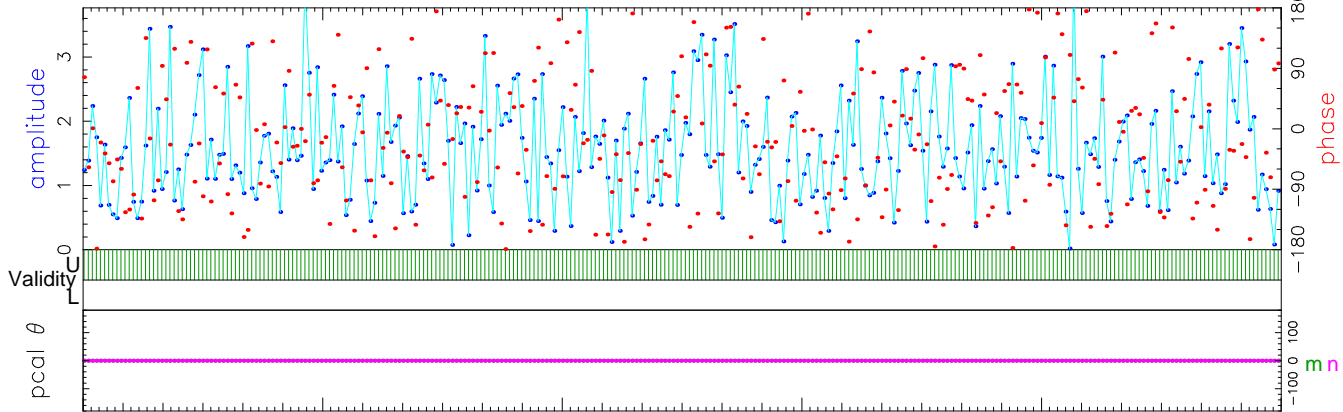
m: az 99.3 el 57.2 pa -71.6 n: az 230.7 el 49.7 pa 36.0 u,v (fr/asec) -7961.299 -3114.213 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/mn..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/mn.W.79.1T5H1A

Fringe quality 8



SNR 8.0
Int time 299.976
Amp 1.255
Phase -180.0
PFD 2.1e-08
Delays (us)
SBD 0.085073
MBD -0.000006
Fringe rate (Hz)
-0.540608
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052012
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
-35.4
0.4
1541.1
U/L 586/0
m 0
n 0
m:n 0:0
m:n 0:0
m 1000
n 1000
m W03UL
n W03UR

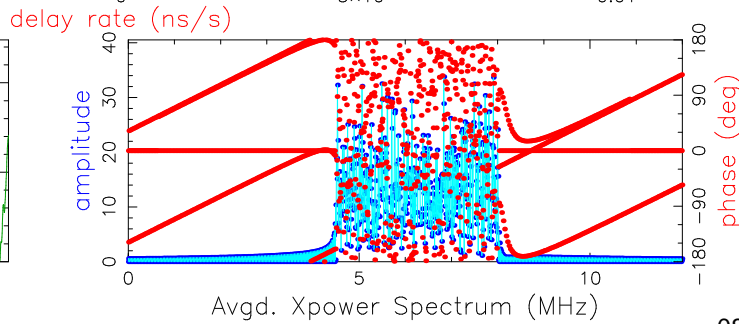
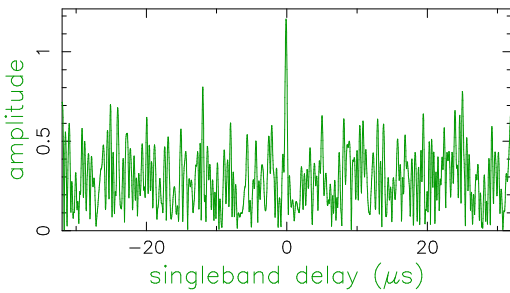
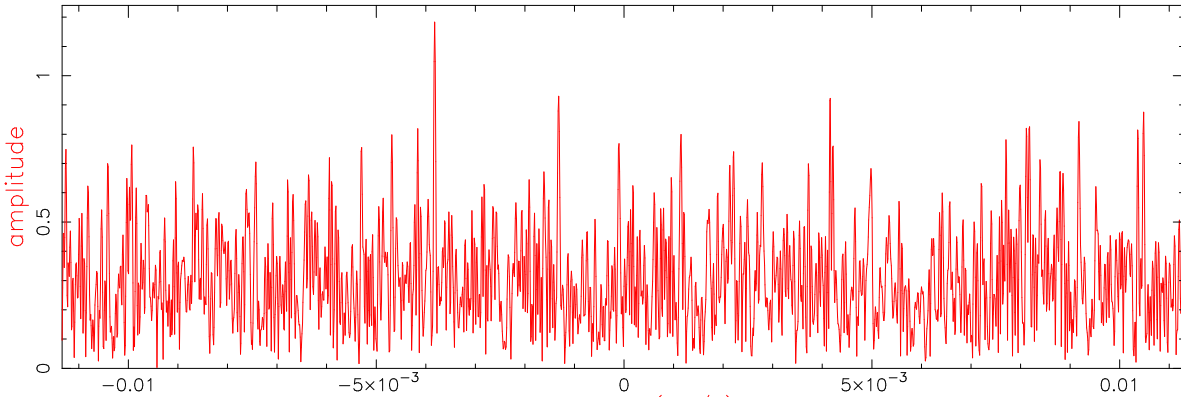
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.96252323496E+03	Apriori delay (usec)	1.96243816273E+03	Resid mbdelay (usec)	-5.52681E-06	+/- 5.7E-03
Sband delay (usec)	1.96252323606E+03	Apriori clock (usec)	1.0233000E+01	Resid sbdelay (usec)	8.50733E-02	+/- 5.7E-03
Phase delay (usec)	1.96243816159E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.14164E-06	+/- 4.6E-07
Delay rate (us/s)	1.35865346864E+00	Apriori rate (us/s)	1.35865974457E+00	Resid rate (us/s)	-6.27592E-06	+/- 2.7E-09
Total phase (deg)	-58.6	Apriori accel (us/s/s)	-1.78319098166E-05	Resid phase (deg)	-180.0	+/- 14.3

ph/seg (deg)	RMS 92.2	Theor. 122.6	Amplitude Search (2048X8)	1.255 +/- 0.157	1.095	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	86.8	214.1	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	7.2	Inc. seg. avg.	0.551	0.551	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	12.5	Inc. frq. avg.	1.245	1.245	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

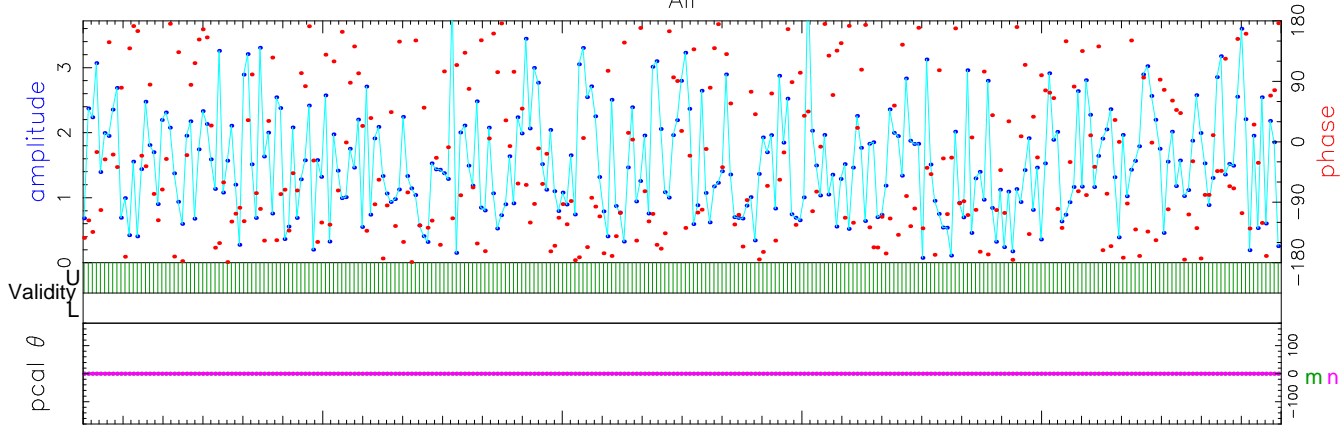
m: az 99.3 el 57.2 pa -71.6 n: az 230.7 el 49.7 pa 36.0 u,v (fr/asec) -7961.299 -3114.213 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/mn..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/mn.W.88.1T5H1A

Fringe quality 8



SNR 8.6
Int time 299.976
Amp 1.240
Phase 277.5
PFD 1.7e-10
Delays (us)
SBD -0.104657
MBD -0.000006
Fringe rate (Hz)
-0.328798
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052013
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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
0.4
1532.0
U/L 586/0
m 0
n 0
m:n 0:0
m:n 0:0
m 1000
n 1000
m W03UR
n W03UL

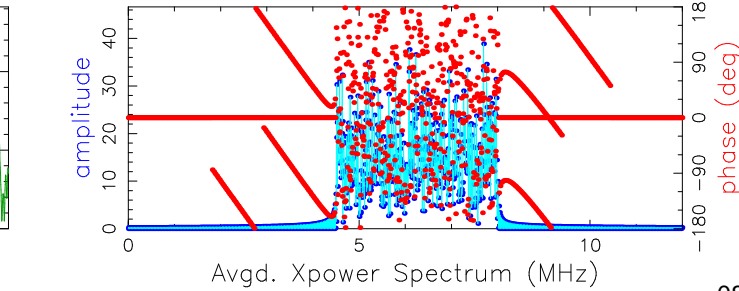
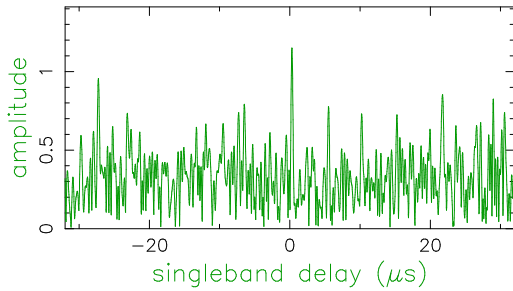
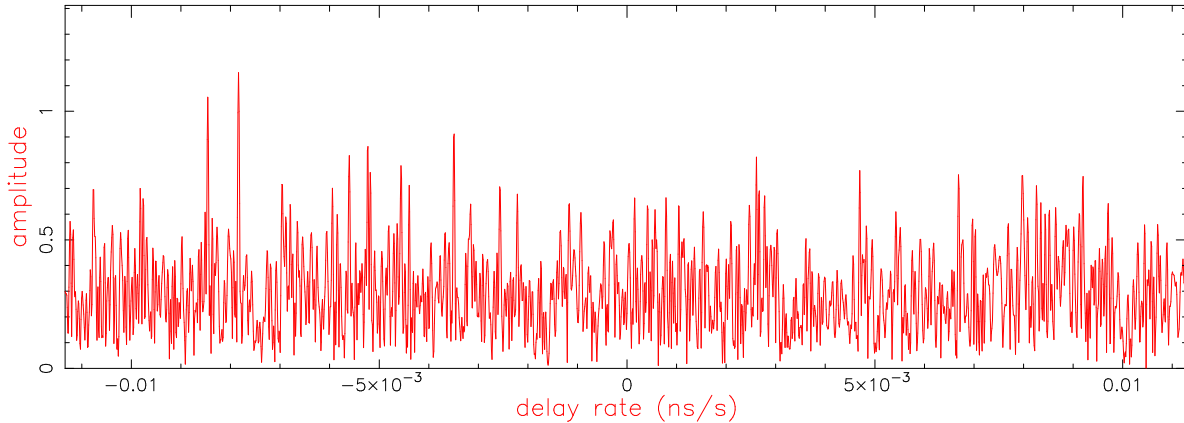
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	1.96233350232E+03	Apriori delay (usec)	1.96243816273E+03	Resid mbdelay (usec)	-6.41442E-06	+/- 5.4E-03
Sband delay (usec)	1.96233350539E+03	Apriori clock (usec)	1.0233000E+01	Resid sbdelay (usec)	-1.04657E-01	+/- 5.4E-03
Phase delay (usec)	1.96243815885E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.87964E-06	+/- 4.3E-07
Delay rate (us/s)	1.35865592754E+00	Apriori rate (us/s)	1.35865974457E+00	Resid rate (us/s)	-3.81702E-06	+/- 2.5E-09
Total phase (deg)	38.9	Apriori accel (us/s/s)	-1.78319098166E-05	Resid phase (deg)	277.5	+/- 13.4

ph/seg (deg)	RMS 91.0	Theor. 114.3	Amplitude 1.240 +/- 0.145	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	76.3	199.5	Search (2048X8) 1.168	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. 0.544	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.232	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

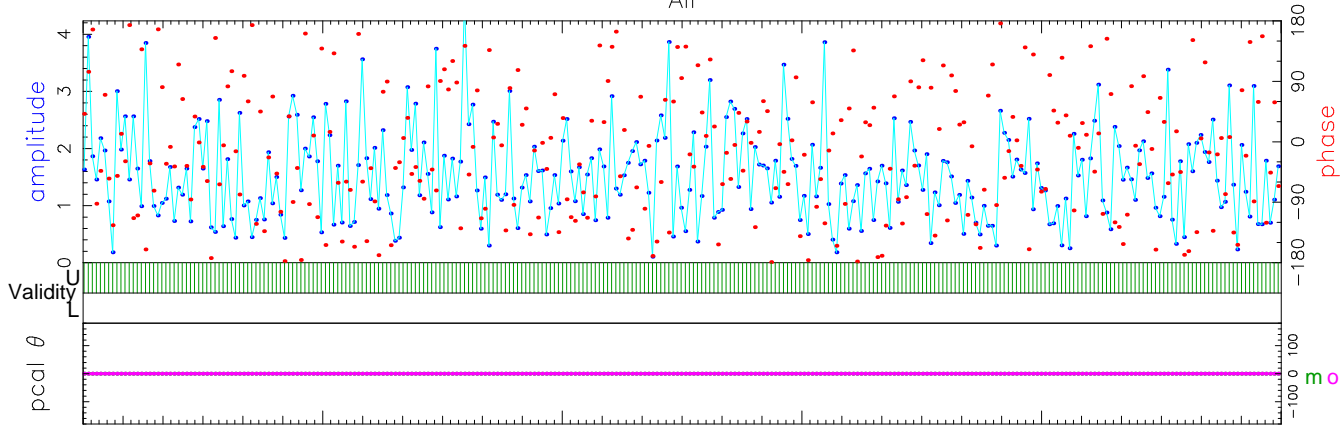
m: az 99.3 el 57.2 pa -71.6 n: az 230.7 el 49.7 pa 36.0 u,v (fr/asec) -7961.299 -3114.213 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/mn..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/mn.W.96.1T5H1A

Fringe quality 8



SNR 8.3
Int time 299.974
Amp 1.412
Phase -4.8
PFD 1.2e-09
Delays (us)
SBD 0.297844
MBD -0.000004
Fringe rate (Hz)
-0.674106
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052014
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
-36.0
0.4
1551.3
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
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.07738094568E+03	Apriori delay (usec)	-1.07767879466E+03	Resid mbdelay (usec)	-4.36288E-06	+/-	5.5E-03
Sband delay (usec)	-1.07738095066E+03	Apriori clock (usec)	1.1962000E+01	Resid sbdelay (usec)	2.97844E-01	+/-	5.5E-03
Phase delay (usec)	-1.07767879582E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.16153E-06	+/-	4.4E-07
Delay rate (us/s)	8.67641526283E-01	Apriori rate (us/s)	8.67649351981E-01	Resid rate (us/s)	-7.82570E-06	+/-	2.6E-09
Total phase (deg)	-138.7	Apriori accel (us/s/s)	-2.65320851199E-07	Resid phase (deg)	-4.8	+/-	13.7

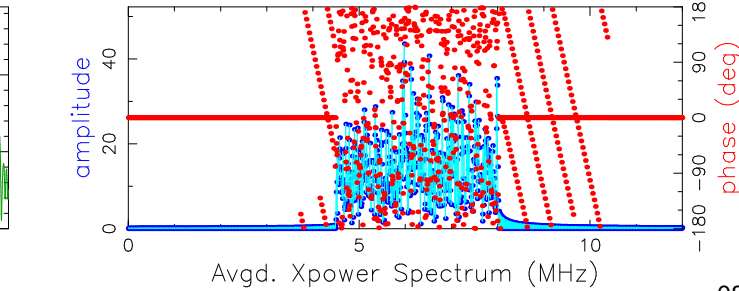
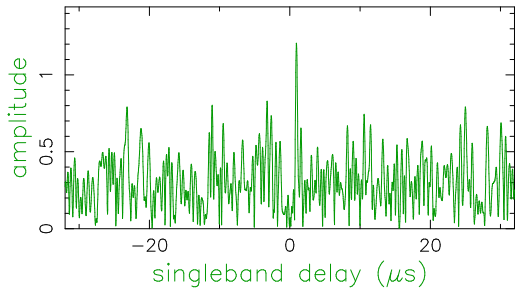
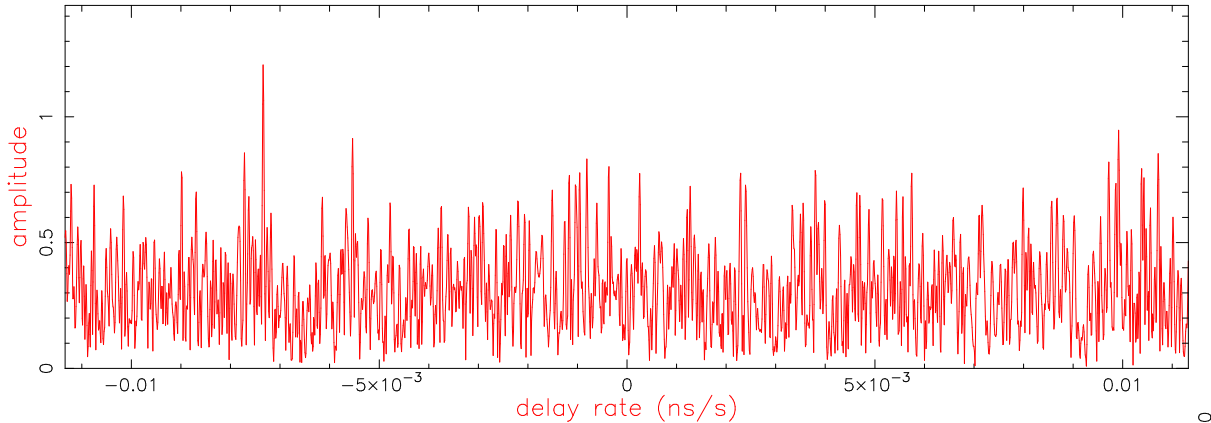
ph/seg (deg)	RMS 93.1	Theor. 117.5	Amplitude Search (2048X8)	1.412 +/- 0.169	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.8	205.1	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.9	Inc. seg. avg.	0.610	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	12.0	Inc. frq. avg.	1.401	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 99.3 el 57.2 pa -71.6 o: az 189.2 el 64.2 pa 8.2 u,v (fr/asec) -5069.983 -2303.622 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/mo..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/mo.W.101.1T5H1A

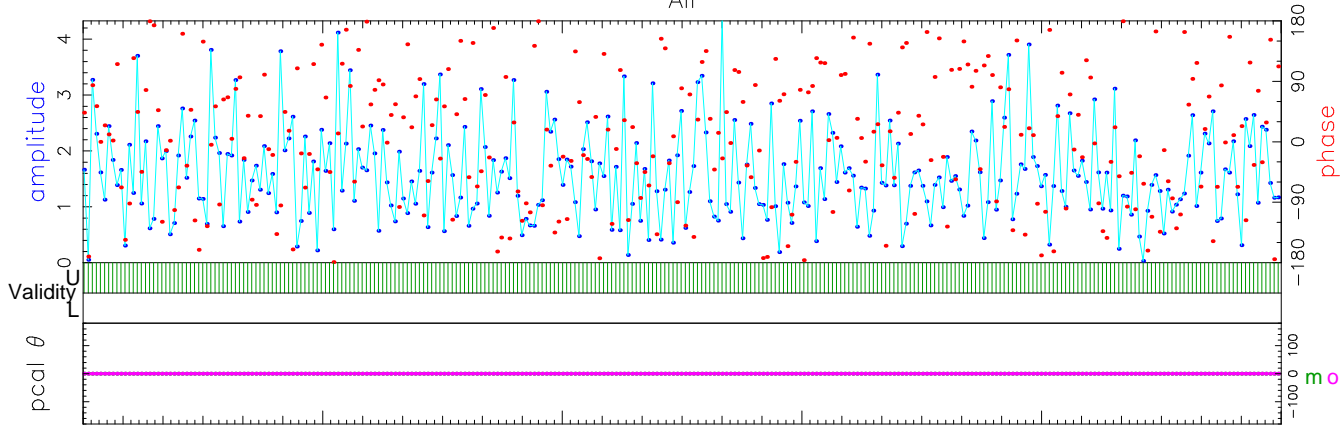
Fringe quality 8

SNR 8.8
Int time 299.974
Amp 1.443
Phase -341.1
PFD 3.7e-11
Delays (us)
SBD 0.942715
MBD -0.000006
Fringe rate (Hz)
-0.631882
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052010
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"



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



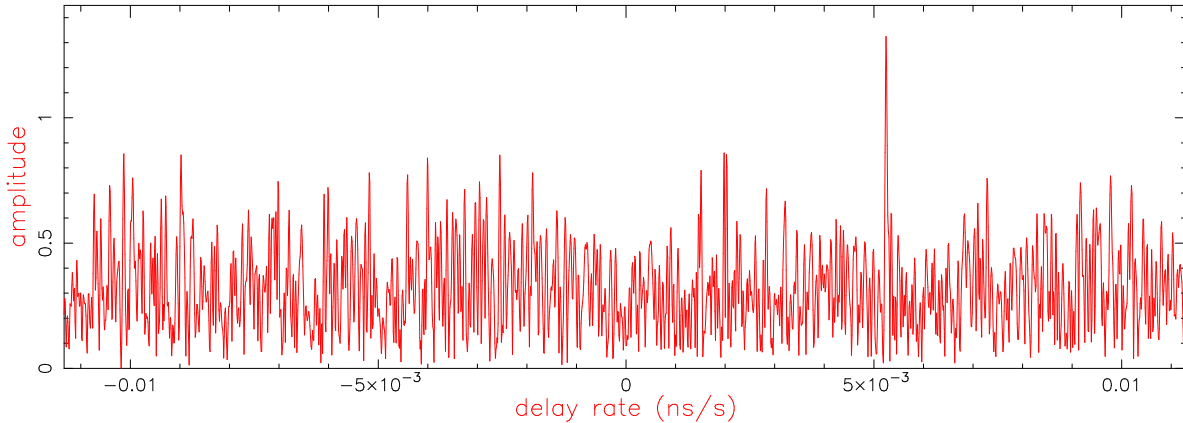
86227.00
25.0
0.4
1582.3
U/L 586/0
m 0
o 0
m:o 0:0
m:o 0:0
m 1000
o 1000
m W03UL
o W03UL

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

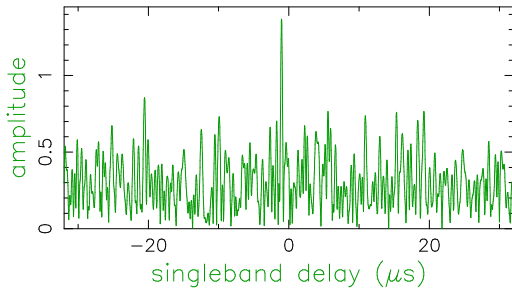
Group delay (usec)(sbd)	-1.07673607940E+03	Apriori delay (usec)	-1.07767879466E+03	Resid mbdelay (usec)	-5.69307E-06	+/-	5.2E-03
Sband delay (usec)	-1.07673607999E+03	Apriori clock (usec)	1.1962000E+01	Resid sbdelay (usec)	9.42715E-01	+/-	5.2E-03
Phase delay (usec)	-1.07767879386E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	8.04713E-07	+/-	4.2E-07
Delay rate (us/s)	8.67642016454E-01	Apriori rate (us/s)	8.67649351981E-01	Resid rate (us/s)	-7.33553E-06	+/-	2.4E-09
Total phase (deg)	-115.0	Apriori accel (us/s/s)	-2.65320851199E-07	Resid phase (deg)	-341.1	+/-	13.1

ph/seg (deg)	RMS 94.8	Theor. 112.1	Amplitude Search (2048X8)	1.443 +/- 0.165	1.170	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	76.0	195.6	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	6.5	Inc. seg. avg.	0.654	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.4	Inc. frq. avg.	1.433	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
m: az 99.3 el 57.2 pa -71.6		o: az 189.2 el 64.2 pa 8.2		u,v (fr/asec) -5069.983 -2303.622		ion window (TEC) 0.00 0.00	

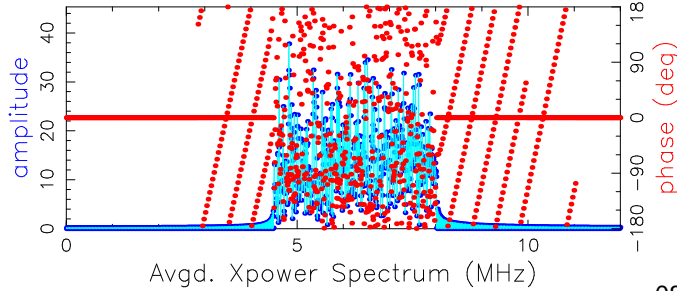
Fringe quality 8



SNR 9.6
Int time 299.974
Amp 1.449
Phase 246.0
PFD 1.5e-14
Delays (us)
SBD -1.000000
MBD 0.000006
Fringe rate (Hz)
0.451759
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

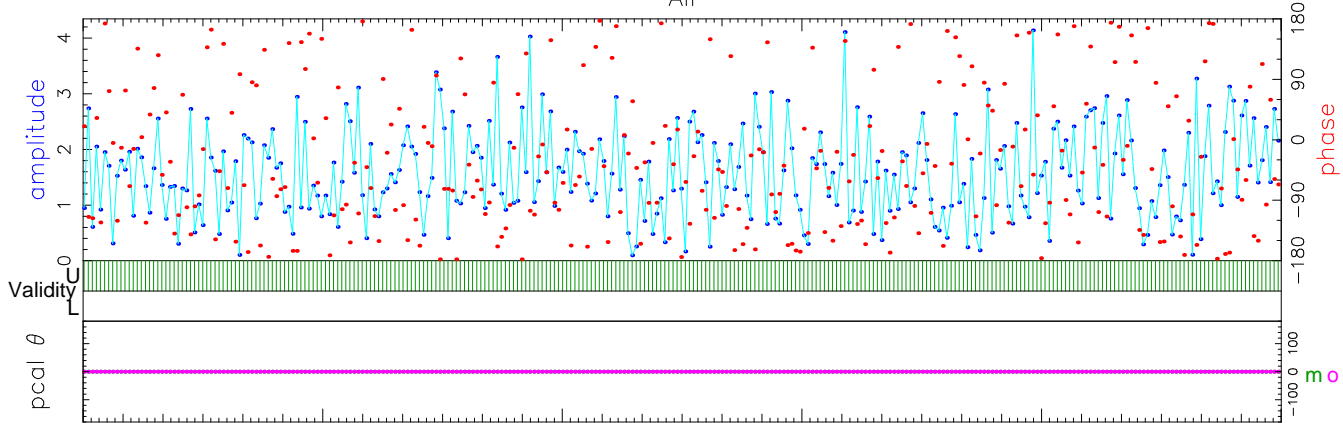


delay rate (ns/s)



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052011
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
-114.4
0.4
1487.2
U/L 586/0
m 0
o 0
m:o 0:0
m:o 0:0
m 1000
o 1000
m W03UR
o W03UR

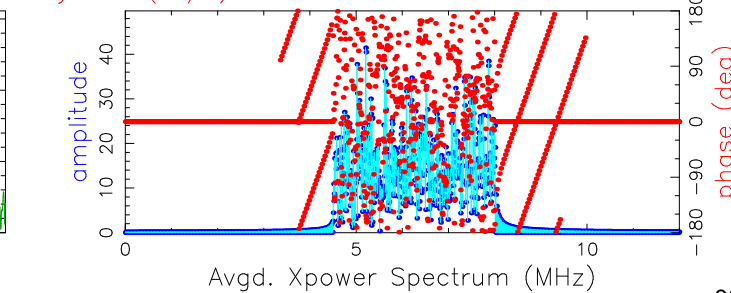
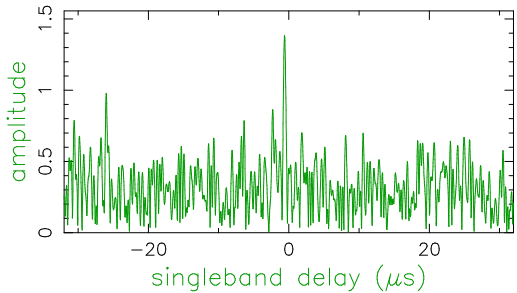
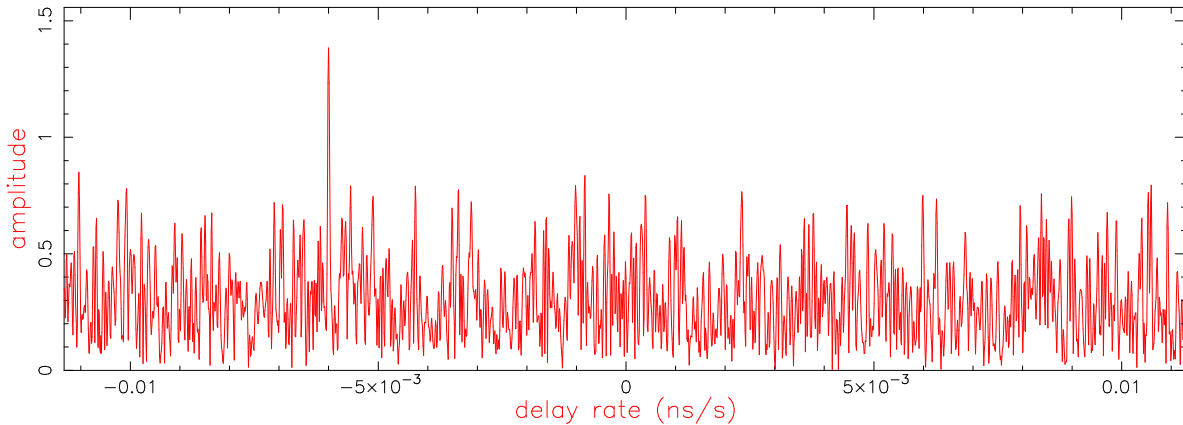
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.07867879983E+03	Apriori delay (usec)	-1.07767879466E+03	Resid mbdelay (usec)	6.42908E-06	+/-	4.8E-03
Sband delay (usec)	-1.07867879466E+03	Apriori clock (usec)	1.1962000E+01	Resid sbdelay (usec)	-1.00000E+00	+/-	4.8E-03
Phase delay (usec)	-1.07767879835E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.68797E-06	+/-	3.8E-07
Delay rate (us/s)	8.67654596453E-01	Apriori rate (us/s)	8.67649351981E-01	Resid rate (us/s)	5.24447E-06	+/-	2.2E-09
Total phase (deg)	112.1	Apriori accel (us/s/s)	-2.65320851199E-07	Resid phase (deg)	246.0	+/-	11.9

ph/seg (deg)	RMS 88.6	Theor. 102.1	Amplitude Search (2048X8)	1.449 +/- 0.151	1.310	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	64.0	178.2	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	6.0	Inc. seg. avg.	0.667	0.667	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	10.4	Inc. frq. avg.	1.441	1.441	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

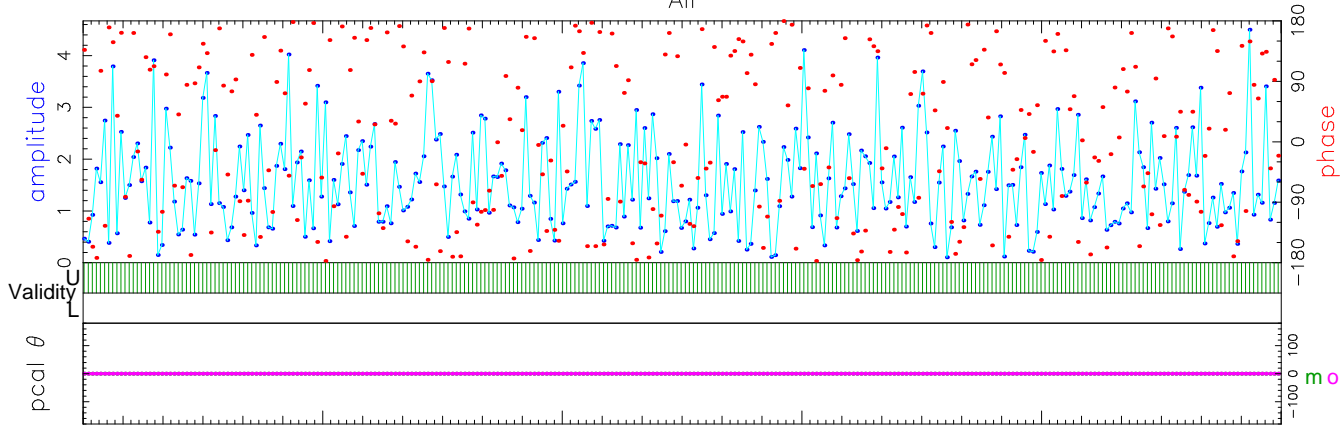
m: az 99.3 el 57.2 pa -71.6 o: az 189.2 el 64.2 pa 8.2 u,v (fr/asec) -5069.983 -2303.622 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/mo..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/mo.W.77.1T5H1A

Fringe quality 7



SNR 10.0
Int time 299.974
Amp 1.557
Phase 219.9
PFD 2.1e-16
Delays (us)
SBD -0.610584
MBD -0.000004
Fringe rate (Hz)
-0.516697
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052013
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
176.7
0.5
1507.7
U/L 586/0
m 0
o 0
m:o 0:0
m:o 0:0
m 1000
o 1000
m W03UL
o W03UR

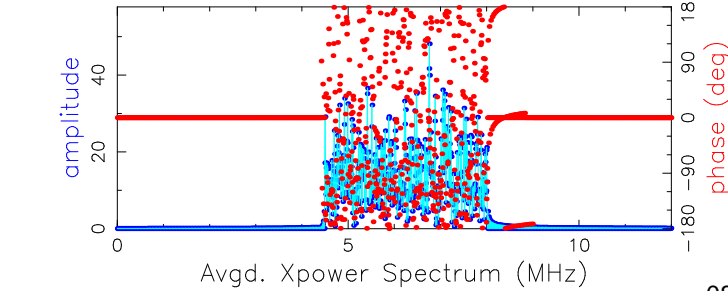
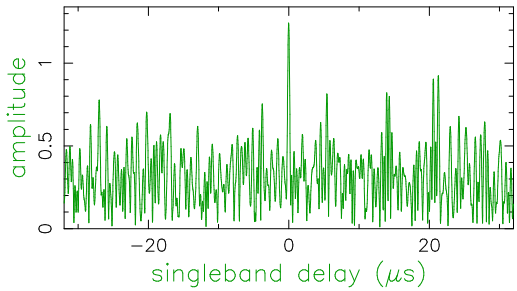
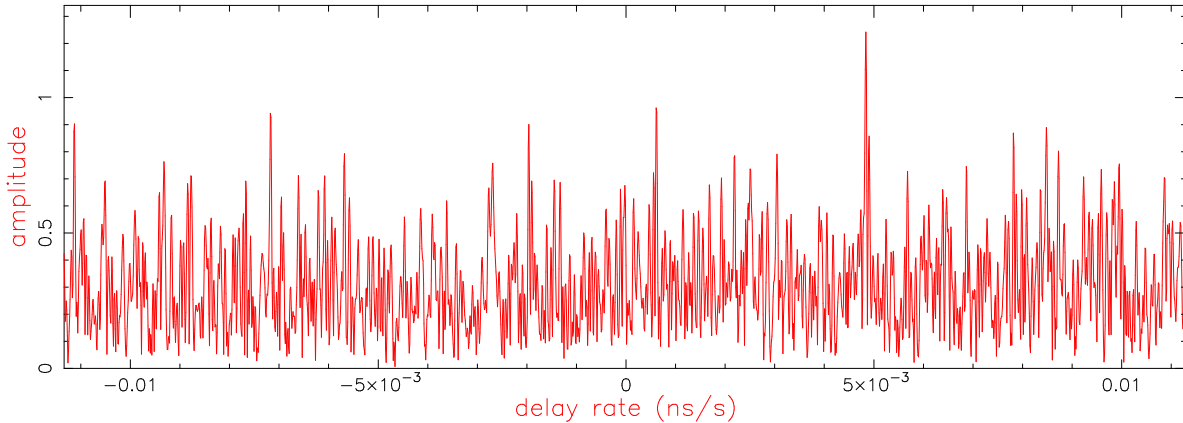
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-1.07828937343E+03	Apriori delay (usec)	-1.07767879466E+03	Resid mbdelay (usec)	-4.35685E-06	+/- 4.6E-03
Sband delay (usec)	-1.07828937866E+03	Apriori clock (usec)	1.1962000E+01	Resid sbdelay (usec)	-6.10584E-01	+/- 4.6E-03
Phase delay (usec)	-1.07767878896E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.69929E-06	+/- 3.7E-07
Delay rate (us/s)	8.67643353643E-01	Apriori rate (us/s)	8.67649351981E-01	Resid rate (us/s)	-5.99834E-06	+/- 2.1E-09
Total phase (deg)	86.0	Apriori accel (us/s/s)	-2.65320851199E-07	Resid phase (deg)	219.9	+/- 11.4

ph/seg (deg)	RMS 90.9	Theor. 97.7	Amplitude Search (2048X8)	1.557 +/- 0.155	1.372	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	67.2	170.5	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	5.7	Inc. seg. avg.	0.723	0.723	Bits/sample: 2x2	Sample rate(MISamp/s): 24	dr window (ns/s)	-0.011	0.011
amp/frq (%)	70.7	10.0	Inc. frq. avg.	1.549	1.549	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00	0.00

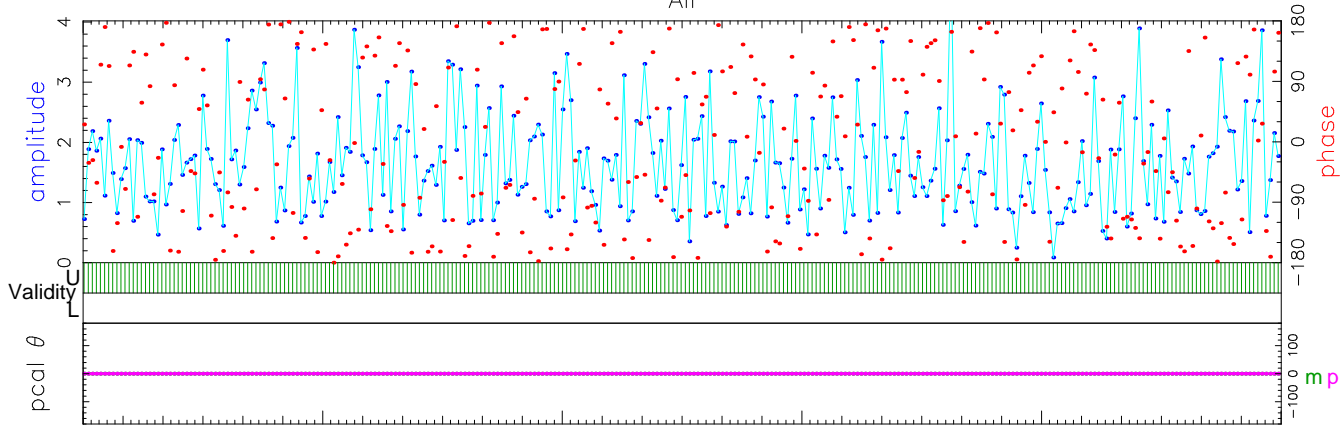
m: az 99.3 el 57.2 pa -71.6 o: az 189.2 el 64.2 pa 8.2 u,v (fr/asec) -5069.983 -2303.622 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/mo..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/mo.W.89.1T5H1A

Fringe quality 8



SNR 9.0
Int time 299.974
Amp 1.340
Phase 207.2
PFD 3.8e-12
Delays (us)
SBD -0.023805
MBD 0.000007
Fringe rate (Hz)
0.416606
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052009
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
-178.5
0.4
1535.9
U/L 586/0
m 0
p 0
m:p 0:0
m:p 0:0
m 1000
p 1000
m W03UL
p W03UL

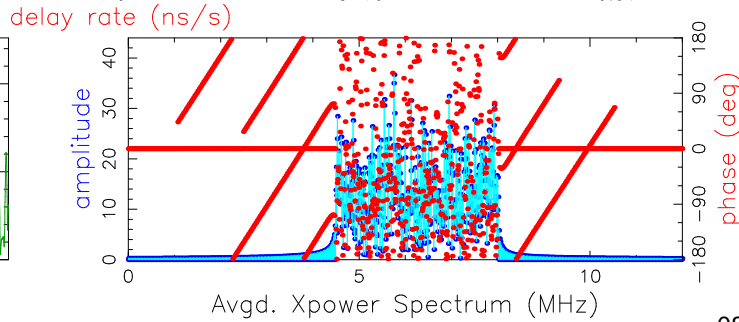
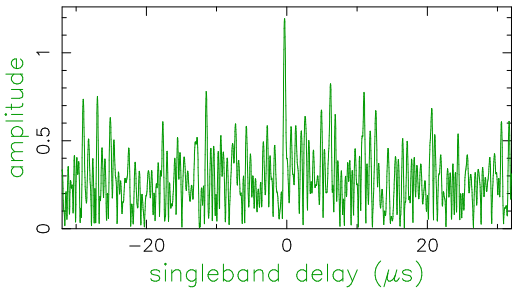
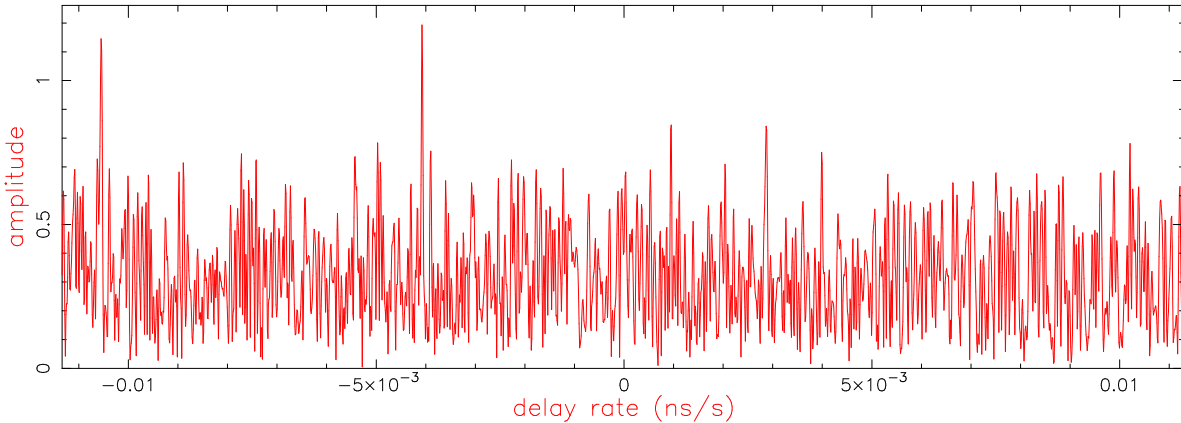
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.91990078333E+02	Apriori delay (usec)	-9.91966276327E+02	Resid mbdelay (usec)	7.24228E-06	+/-	5.1E-03
Sband delay (usec)	-9.91990081661E+02	Apriori clock (usec)	1.0185999E+01	Resid sbdelay (usec)	-2.38053E-02	+/-	5.1E-03
Phase delay (usec)	-9.91966282083E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.75544E-06	+/-	4.1E-07
Delay rate (us/s)	1.09073267507E+00	Apriori rate (us/s)	1.09072783869E+00	Resid rate (us/s)	4.83638E-06	+/-	2.4E-09
Total phase (deg)	191.8	Apriori accel (us/s/s)	2.13087854390E-07	Resid phase (deg)	207.2	+/-	12.7

ph/seg (deg)	RMS 91.2	Theor. 108.9	Amplitude 1.340 +/- 0.149	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	74.8	190.0	Search (2048X8) 1.231	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.4	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	11.1	Inc. seg. avg. 0.642	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.332	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
				nlags: 1536 t_cohere infinite	

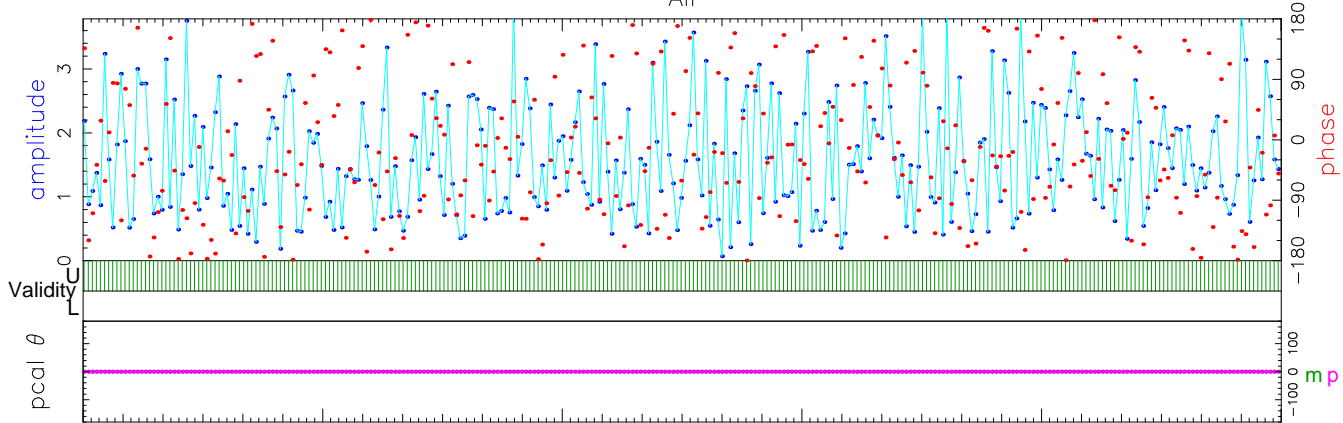
m: az 99.3 el 57.2 pa -71.6 p: az 213.2 el 63.9 pa 28.5 u,v (fr/asec) -6374.500 -1934.967 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/mp..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/mp.W.58.1T5H1A

Fringe quality 8



SNR 8.7
Int time 299.974
Amp 1.261
Phase 318.3
PFD 7.6e-11
Delays (us)
SBD -0.322803
MBD -0.000004
Fringe rate (Hz)
-0.350419
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052010
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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
1521.5
U/L 586/0
m 0
p 0
m:p 0:0
m:p 0:0
m 1000
p 1000
m W03UR
p W03UR

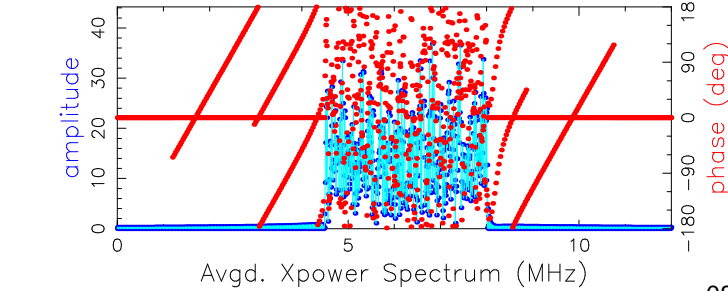
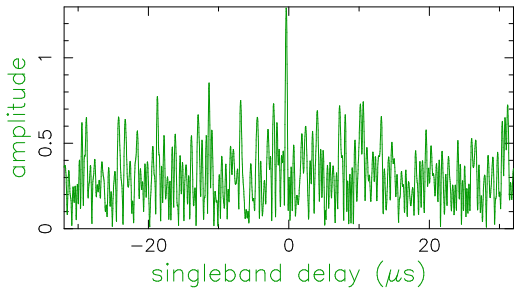
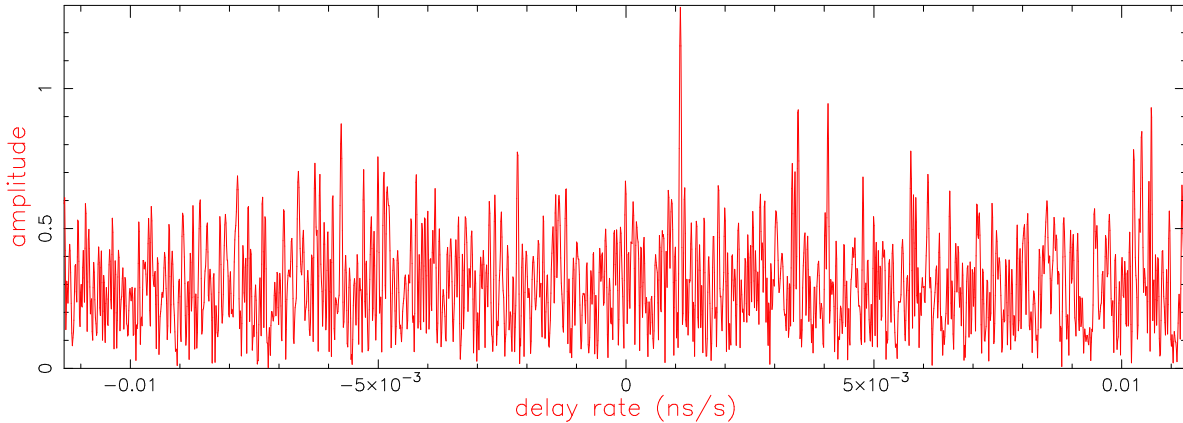
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.92289079806E+02	Apriori delay (usec)	-9.91966276327E+02	Resid mbdelay (usec)	-4.35527E-06	+/- 5.3E-03
Sband delay (usec)	-9.92289078994E+02	Apriori clock (usec)	1.0185999E+01	Resid sbdelay (usec)	-3.22803E-01	+/- 5.3E-03
Phase delay (usec)	-9.91966278641E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.31392E-06	+/- 4.3E-07
Delay rate (us/s)	1.09072377067E+00	Apriori rate (us/s)	1.09072783869E+00	Resid rate (us/s)	-4.06802E-06	+/- 2.5E-09
Total phase (deg)	302.9	Apriori accel (us/s/s)	2.13087854390E-07	Resid phase (deg)	318.3	+/- 13.2

ph/seg (deg)	RMS 94.5	Theor. 113.1	Amplitude 1.261 +/- 0.145	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	81.4	197.5	Search (2048X8) 1.153	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 (%)	70.8	11.5	Inc. seg. avg. 0.573	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 1.251	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

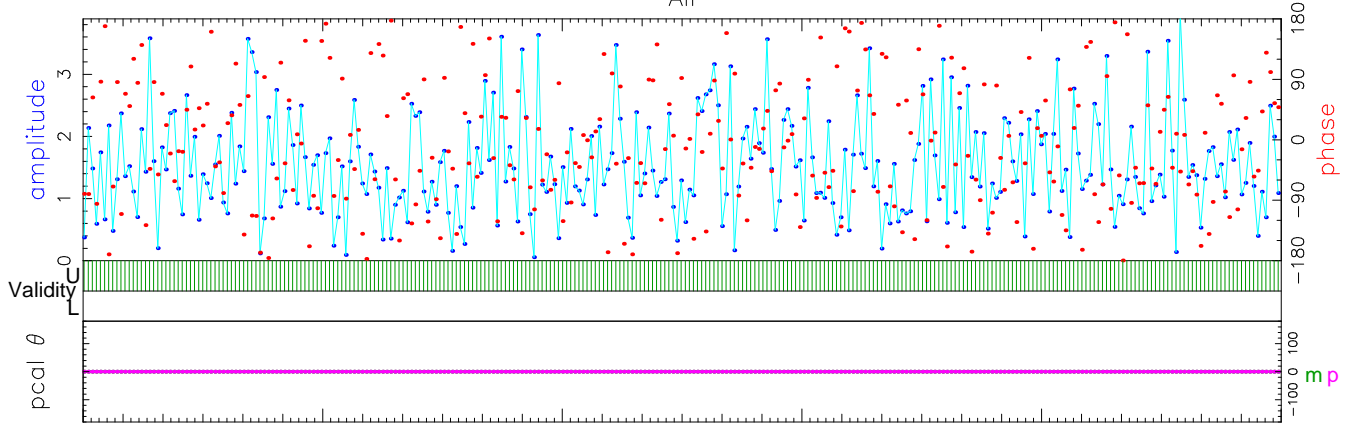
m: az 99.3 el 57.2 pa -71.6 p: az 213.2 el 63.9 pa 28.5 u,v (fr/asec) -6374.500 -1934.967 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/mp..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/mp.W.66.1T5H1A

Fringe quality 8



SNR 9.4
Int time 299.974
Amp 1.298
Phase 319.0
PFD 1.3e-13
Delays (us)
SBD -0.366769
MBD 0.000005
Fringe rate (Hz)
0.094514
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052011
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
-8.4
0.4
1519.4
U/L 586/0
m 0
p 0
m:p 0:0
m:p 0:0
m 1000
p 1000
m W03UL
p W03UR

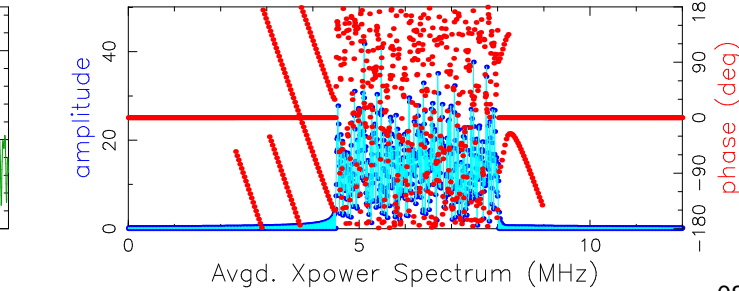
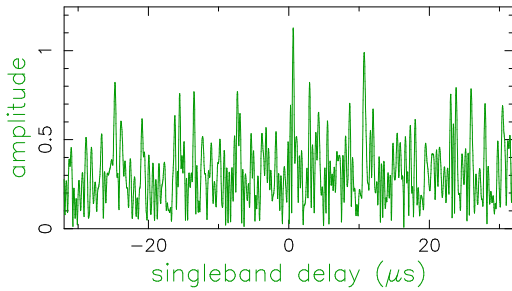
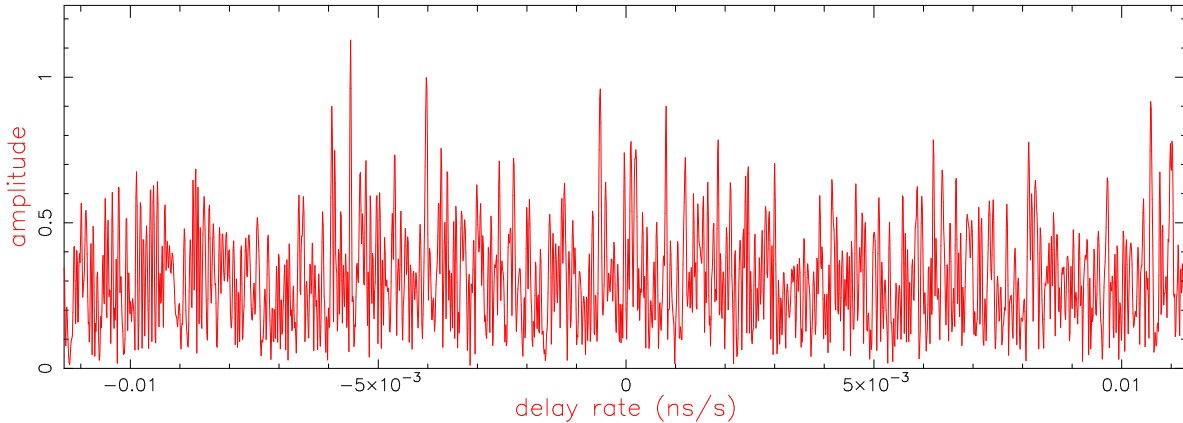
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-9.92333047093E+02	Apriori delay (usec)	-9.91966276327E+02	Resid mbdelay (usec)	5.30210E-06	+/-	4.9E-03
Sband delay (usec)	-9.92333045661E+02	Apriori clock (usec)	1.0185999E+01	Resid sbdelay (usec)	-3.66769E-01	+/-	4.9E-03
Phase delay (usec)	-9.91966276598E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.70817E-07	+/-	3.9E-07
Delay rate (us/s)	1.09072893590E+00	Apriori rate (us/s)	1.09072783869E+00	Resid rate (us/s)	1.09721E-06	+/-	2.3E-09
Total phase (deg)	303.6	Apriori accel (us/s/s)	2.13087854390E-07	Resid phase (deg)	319.0	+/-	12.2

ph/seg (deg)	RMS 91.5	Theor. 104.6	Amplitude Search (2048X8)	1.298 +/- 0.138	1.278	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	66.2	182.6	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	6.1	Inc. seg. avg.	0.580	0.580	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	10.7	Inc. frq. avg.	1.289	1.289	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

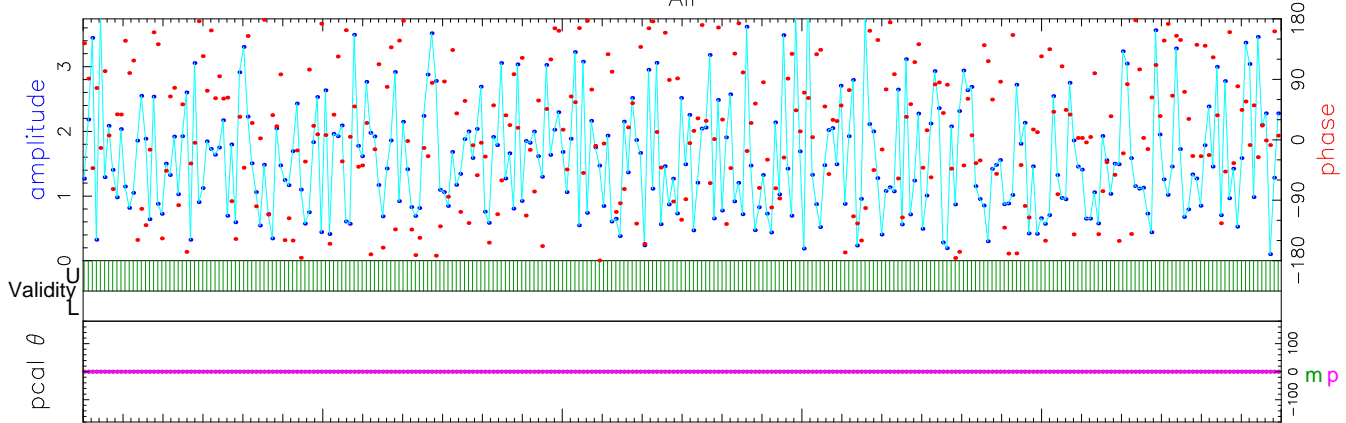
m: az 99.3 el 57.2 pa -71.6 p: az 213.2 el 63.9 pa 28.5 u,v (fr/asec) -6374.500 -1934.967 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/mp..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/mp.W.74.1T5H1A

Fringe quality 8



SNR 8.2
Int time 299.974
Amp 1.246
Phase -24.7
PFD 4.9e-09
Delays (us)
SBD 0.622237
MBD -0.000006
Fringe rate (Hz)
-0.477844
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052012
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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

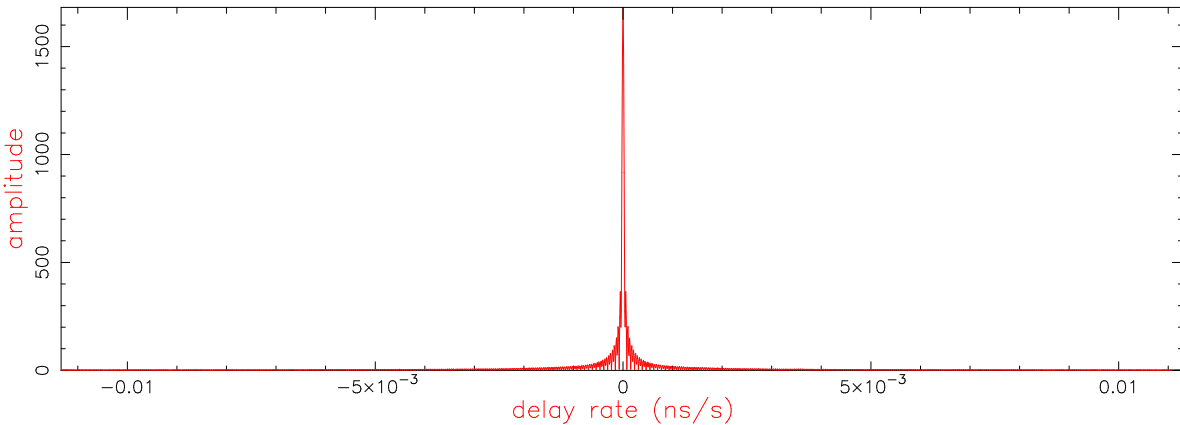


86227.00
23.9
0.4
1566.9
U/L 586/0
m 0
p 0
m:p 0:0
m:p 0:0
m 1000
p 1000
m W03UR
p W03UL

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

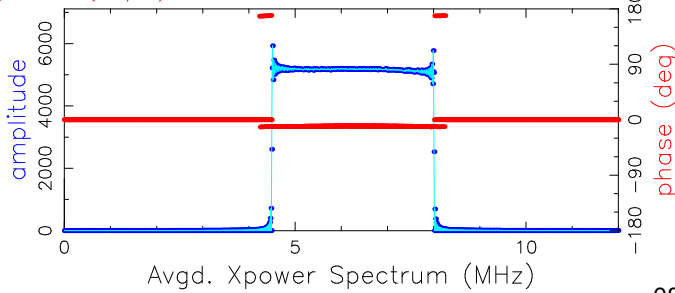
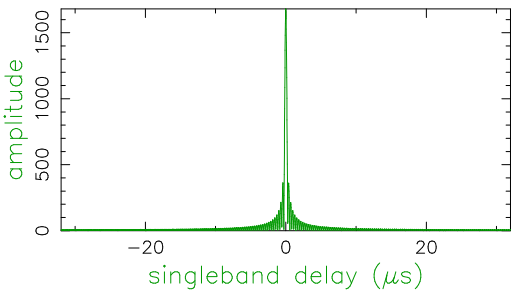
Group delay (usec)(sbd)	-9.91344041206E+02	Apriori delay (usec)	-9.91966276327E+02	Resid mbdelay (usec)	-6.17208E-06	+/-	5.6E-03
Sband delay (usec)	-9.91344038994E+02	Apriori clock (usec)	1.0185999E+01	Resid sbdelay (usec)	6.22237E-01	+/-	5.6E-03
Phase delay (usec)	-9.91966275557E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.70589E-07	+/-	4.5E-07
Delay rate (us/s)	1.09072229139E+00	Apriori rate (us/s)	1.09072783869E+00	Resid rate (us/s)	-5.54729E-06	+/-	2.6E-09
Total phase (deg)	-40.1	Apriori accel (us/s/s)	2.13087854390E-07	Resid phase (deg)	-24.7	+/-	14.0

ph/seg (deg)	RMS 96.5	Theor. 120.0	Amplitude Search (2048X8)	1.246 +/- 0.152	1.125	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	88.2	209.4	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	7.0	Inc. seg. avg.	0.554	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.000 0.000
amp/frq (%)	70.7	12.2	Inc. frq. avg.	1.237	Sample rate(MISamp/s): 24	Data rate(Mb/s): 48	dr window (ns/s) -0.011 0.011
				m: az 99.3 el 57.2 pa -71.6	u,v (fr/asec) -6374.500 -1934.967	nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00



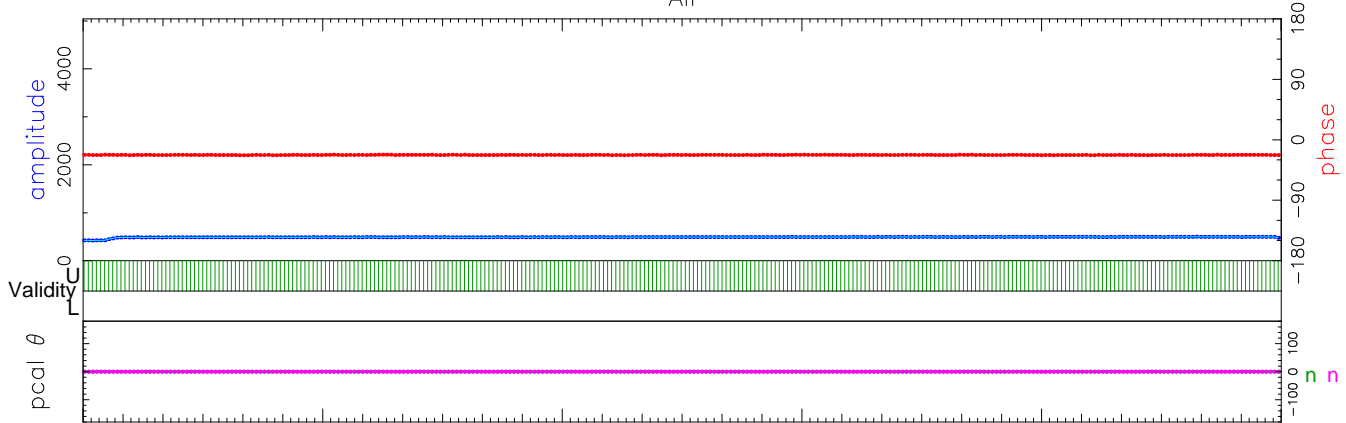
Fringe quality 5

SNR 12192.9
Int time 299.977
Amp 1681.546
Phase 144.9
PFD 0.0e+00
Delays (us)
SBD -0.005351
MBD -0.000006
Fringe rate (Hz)
-0.000003
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052014
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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

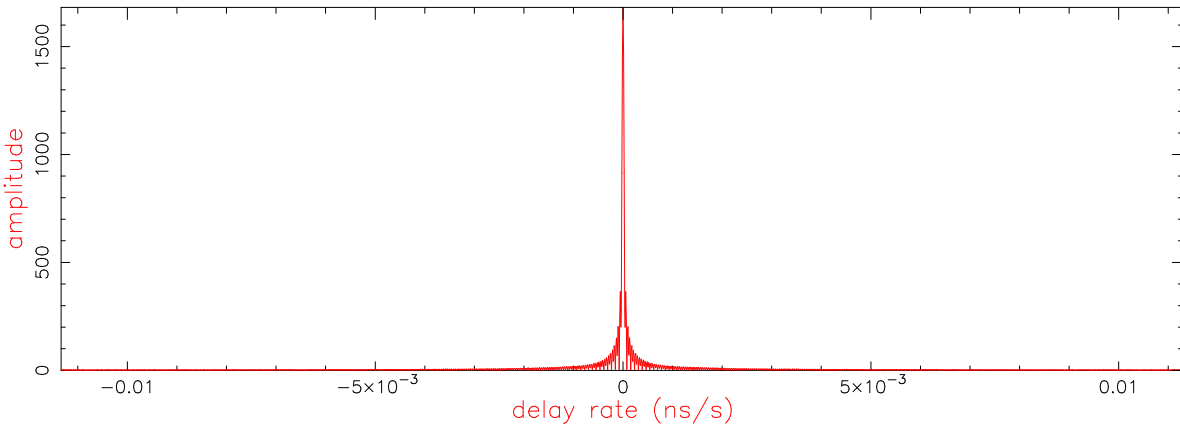


86227.00
-22.6
492.4
1536.7
U/L 586/0
n 0
n 0
n:n 0:0
n:n 0:0
n 1000
n 1000
n W03UL
n W03UR

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

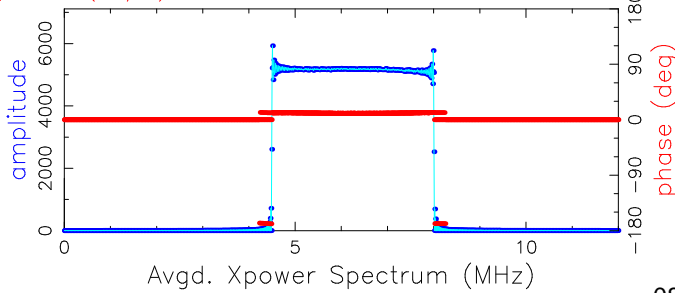
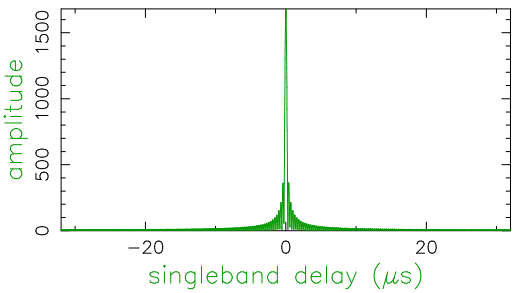
Group delay (usec)(sbd)	-5.35195212636E-03	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-5.59890E-06	+/- 3.8E-06
Sband delay (usec)	-5.35066666667E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-5.35067E-03	+/- 3.8E-06
Phase delay (usec)	-7.28182256129E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-7.28182E-07	+/- 3.0E-10
Delay rate (us/s)	-3.61364385988E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-3.61364E-11	+/- 1.7E-12
Total phase (deg)	144.9	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	144.9	+/- 0.0

ph/seg (deg)	0.2	Theor.	0.1	Amplitude	1681.546 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.1	Search (2048X8)	1680.568	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.	492.356	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	1680.570	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
n: az 230.7 el 49.7 pa 36.0				n: az 230.7 el 49.7 pa 36.0		u,v (fr/asec) 0.000 0.000	simultaneous interpolator



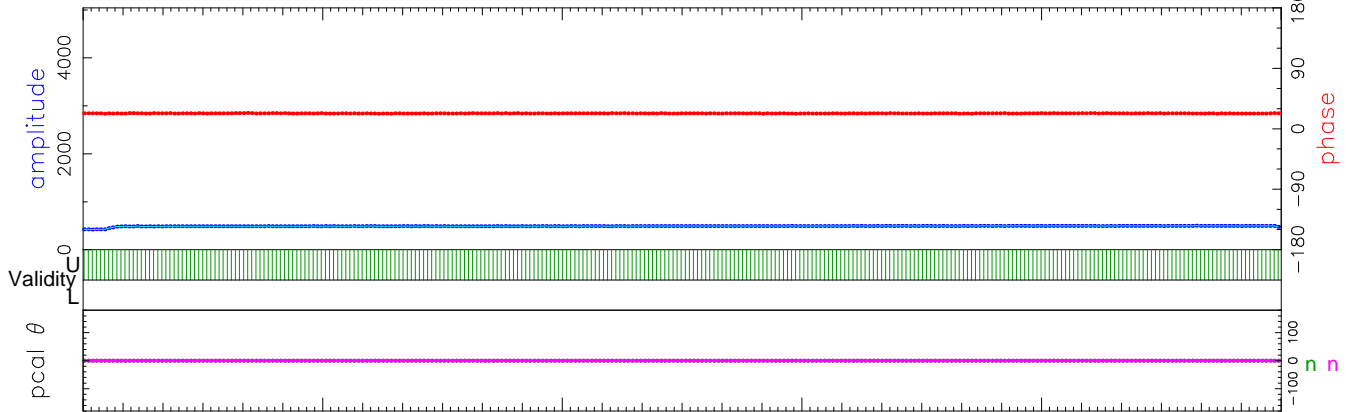
Fringe quality 5

SNR 12192.9
Int time 299.977
Amp 1681.546
Phase -144.9
PFD 0.0e+00
Delays (us)
SBD 0.005351
MBD -0.000004
Fringe rate (Hz)
0.000003
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052015
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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

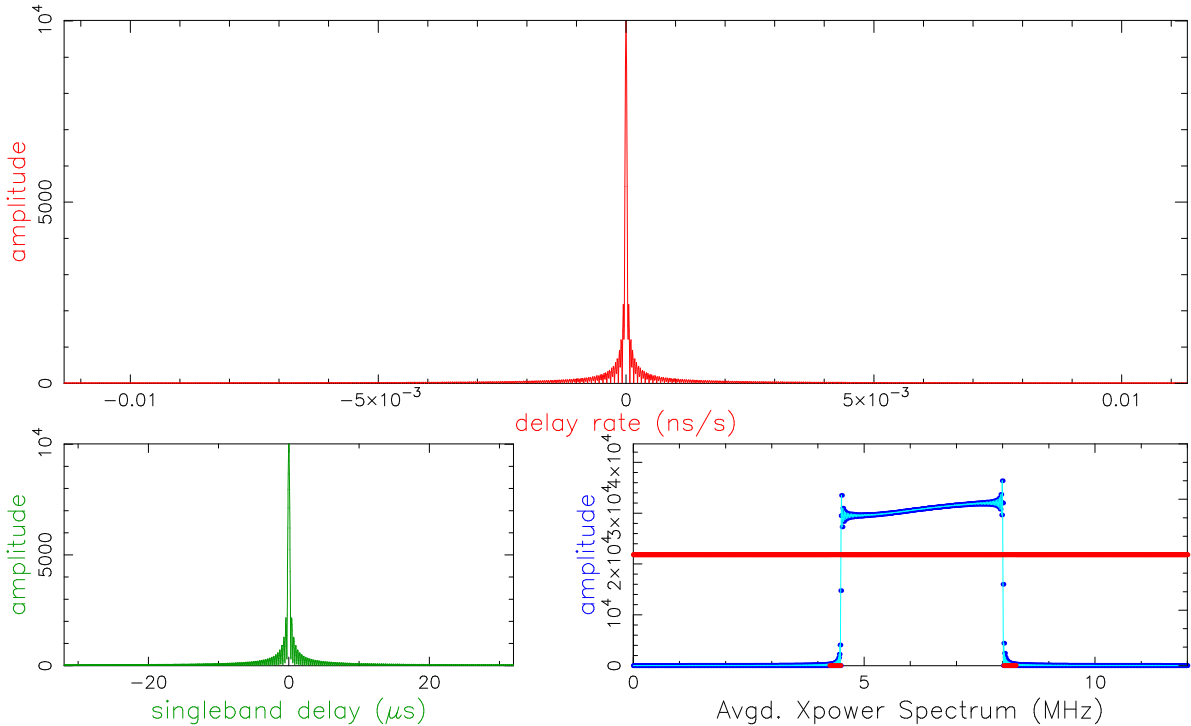


86227.00
22.9
492.4
1537.3
U/L 586/0
n 0
n 0
n:n 0:0
n:n 0:0
n 1000
n 1000
n W03UR
n W03UL

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

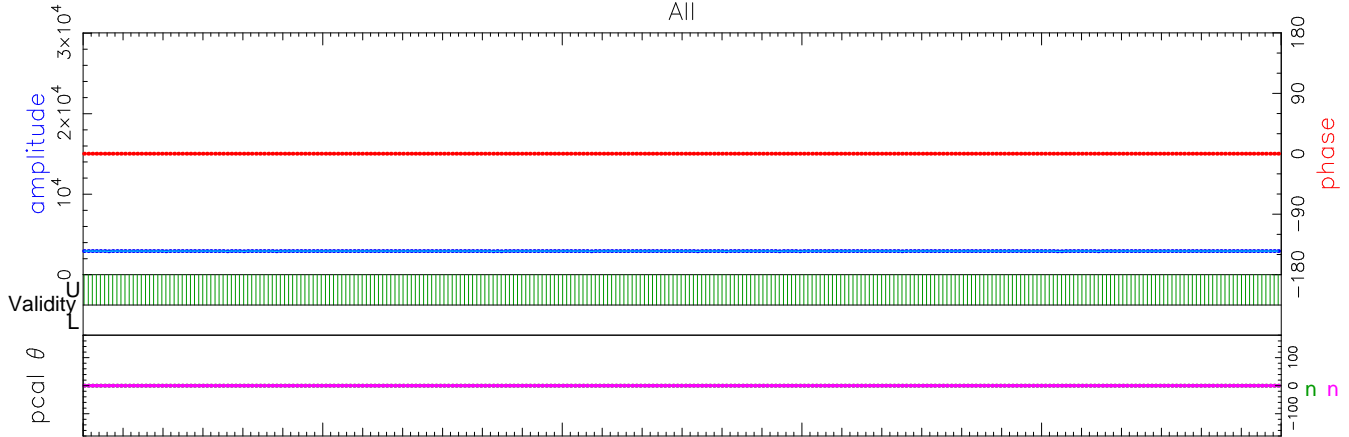
Group delay (usec)(sbd)	5.35351432846E-03	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-4.43620E-06	+/- 3.8E-06
Sband delay (usec)	5.35066666667E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	5.35067E-03	+/- 3.8E-06
Phase delay (usec)	7.39016522483E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.39017E-07	+/- 3.0E-10
Delay rate (us/s)	3.61364385988E-11	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	3.61364E-11	+/- 1.7E-12
Total phase (deg)	-144.9	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-144.9	+/- 0.0

ph/seg (deg)	0.2	Theor.	0.1	Amplitude	1681.546 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.1	Search (2048X8)	1680.568	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.	492.356	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	1680.570	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
n: az 230.7 el 49.7 pa 36.0				n: az 230.7 el 49.7 pa 36.0		u,v (fr/asec) 0.000 0.000	simultaneous interpolator



Fringe quality 5
SNR 72628.7
Int time 299.977
Amp 10016.383
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 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052012
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



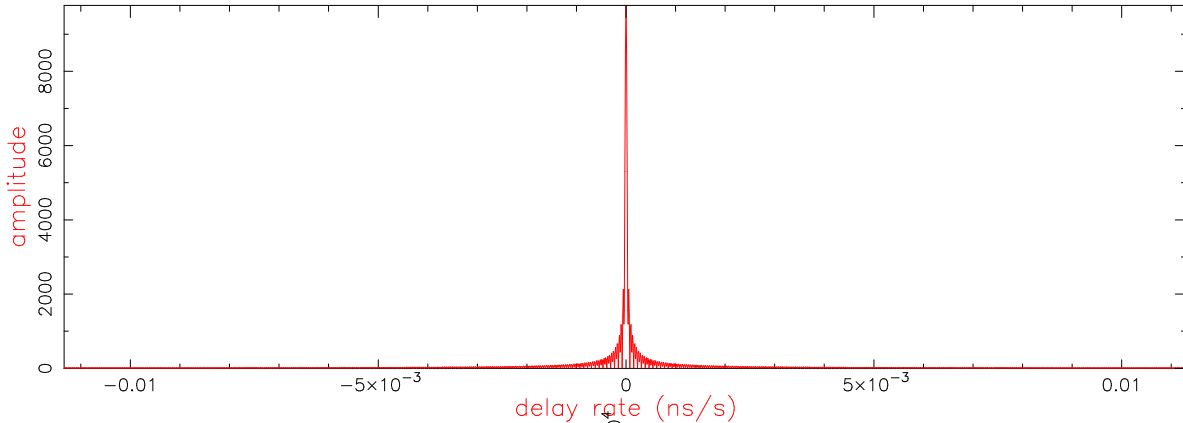
86227.00
0.1
2934.5
1537.0
U/L 586/0
n 0
n 0
n:n 0:0
n:n 0:0
n 1000
n 1000
n W03UL
n W03UL

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

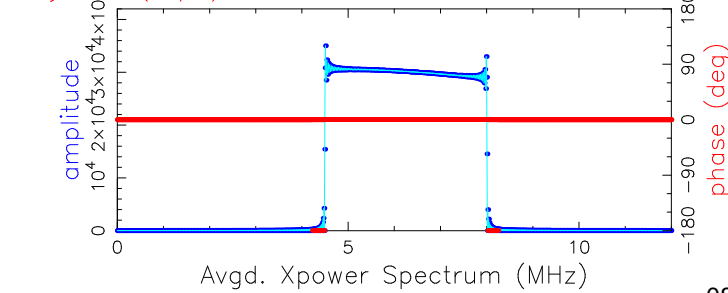
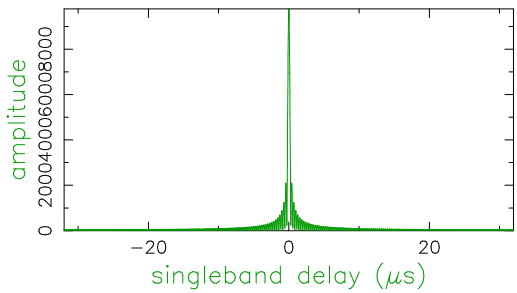
Group delay (usec)(sbd)	-4.35884351769E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.35884E-06	+/-	6.3E-07
Sband delay (usec)	0.00000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	6.3E-07
Phase delay (usec)	4.70597222133E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.70597E-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	10016.383 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	0.0	0.0	Search (2048X8)	10016.383	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.	2934.487	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10016.383	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
n: az 230.7 el 49.7 pa 36.0				n: az 230.7 el 49.7 pa 36.0		u,v (fr/asec) 0.000 0.000	simultaneous interpolator

Fringe quality 5

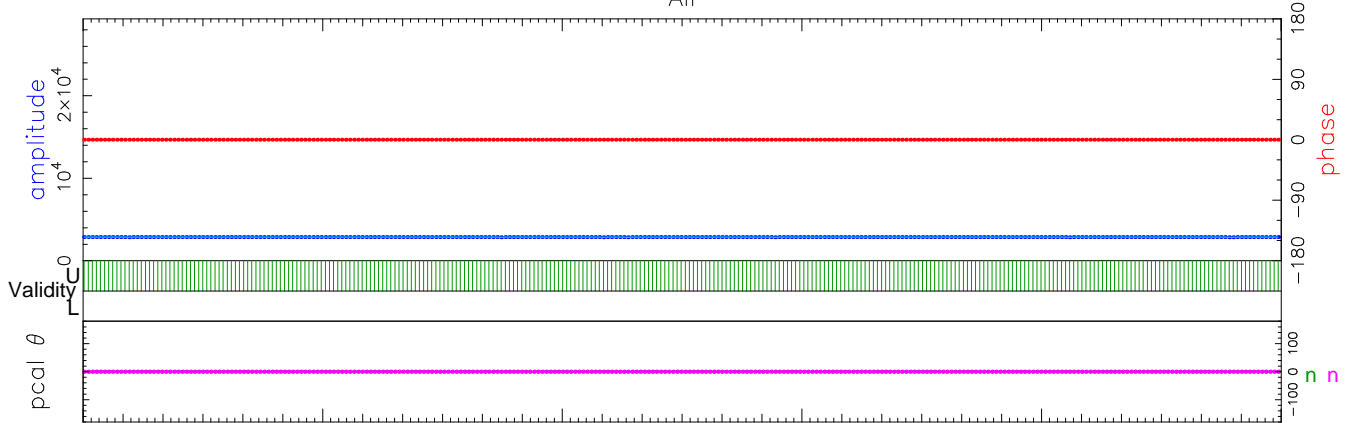


SNR 70892.0
Int time 299.977
Amp 9776.861
Phase -0.1
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000007
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052013
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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
2864.3
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

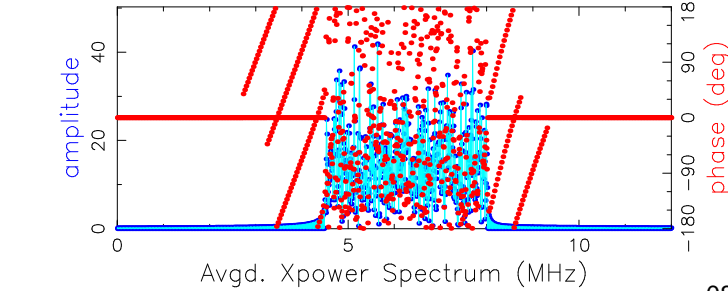
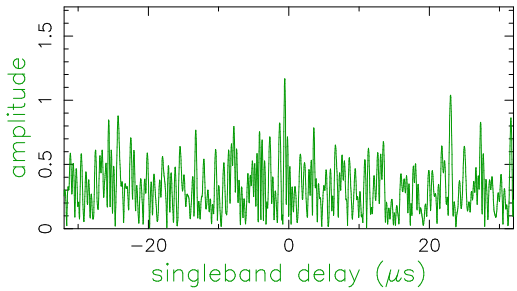
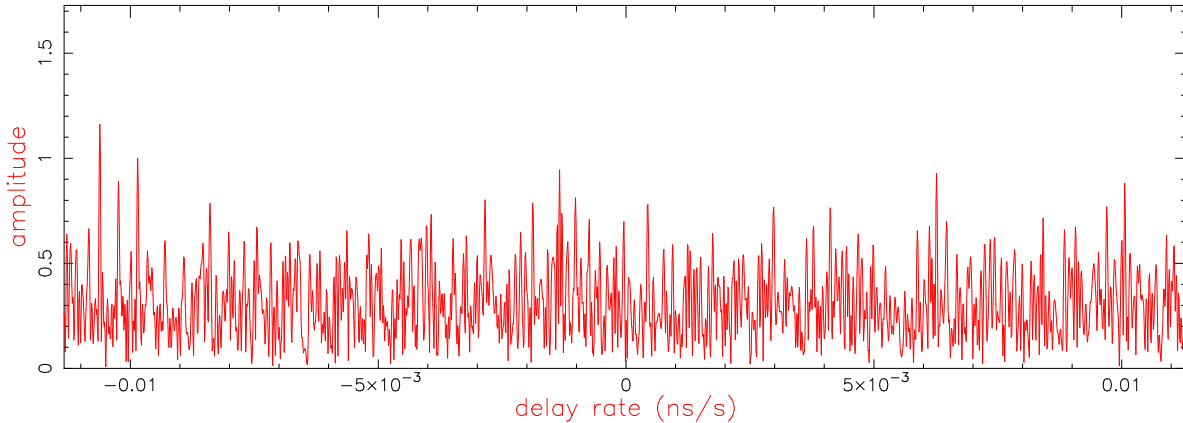
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	4.70850197734E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.88879E-06	+/- 6.5E-07
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 6.5E-07
Phase delay (usec)	7.43740188764E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.43740E-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)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/- 0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	9776.861 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.0	Search (2048X8)	9776.861	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.	2864.315	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	9776.861	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00
n: az 230.7 el 49.7 pa 36.0				n: az 230.7 el 49.7 pa 36.0		u,v (fr/asec) 0.000 0.000	simultaneous interpolator

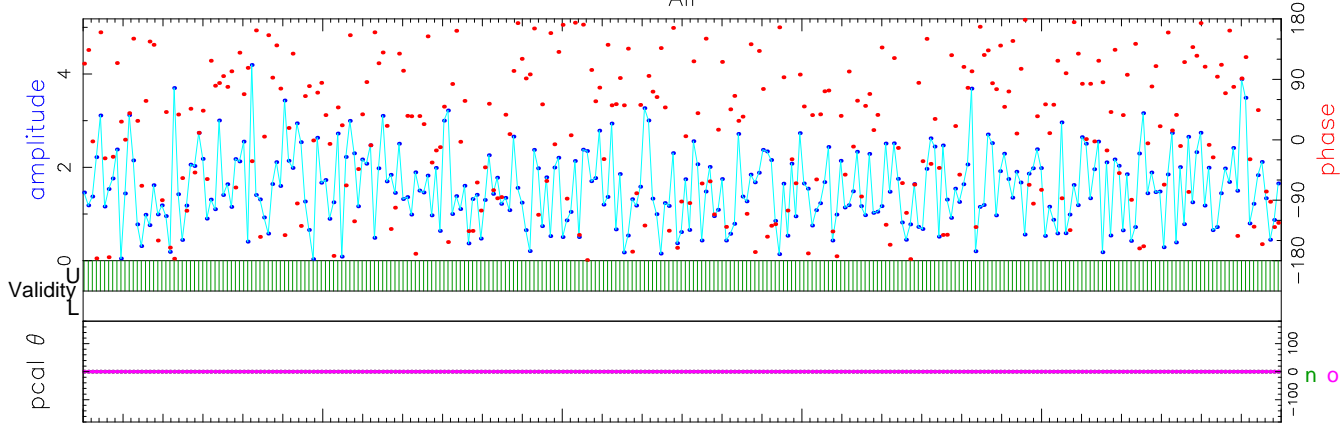
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/nn..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/nn.W.94.1T5H1A

Fringe quality 8



SNR 8.5
Int time 299.974
Amp 1.728
Phase 202.7
PFD 3.9e-10
Delays (us)
SBD -0.578312
MBD -0.000004
Fringe rate (Hz)
-0.914014
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052014
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



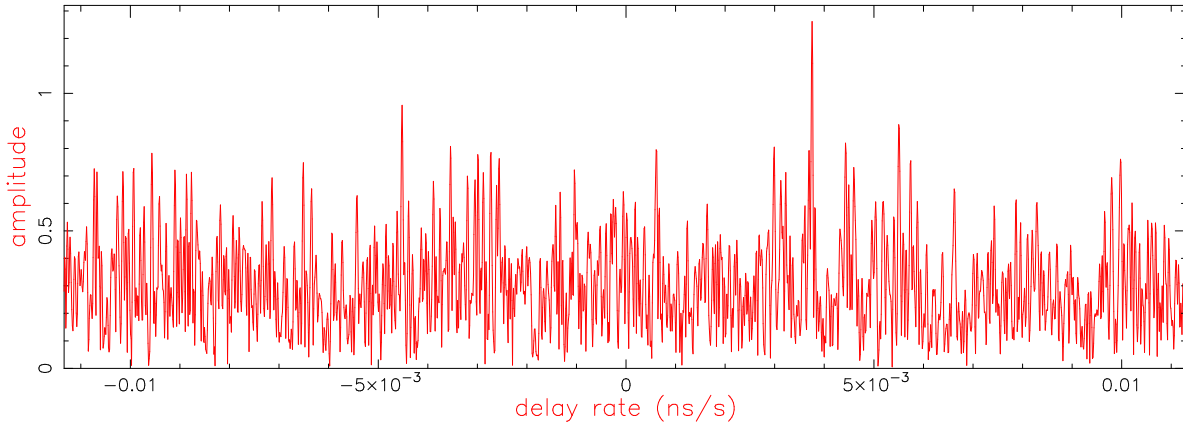
86227.00
90.0
0.5
1509.2
U/L 586/0
n 0
o 0
n:o 0:0
n:o 0:0
n 1000
o 1000
n W03UR
o W03UL

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

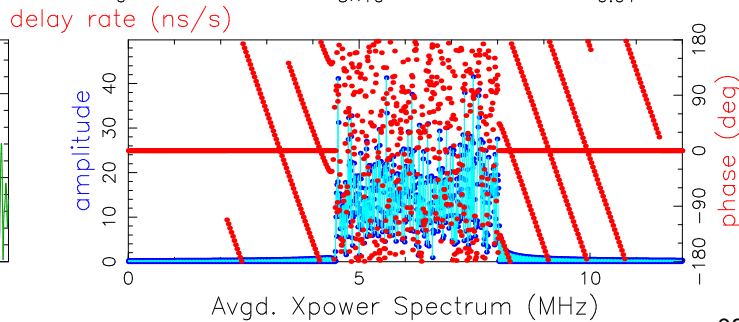
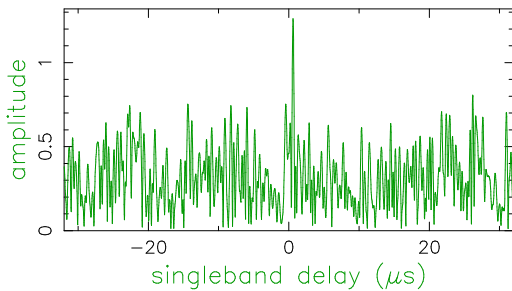
Group delay (usec)(sbd)	-3.04069527248E+03	Apriori delay (usec)	-3.04011695739E+03	Resid mbdelay (usec)	-4.35441E-06	+/- 5.4E-03
Sband delay (usec)	-3.04069526939E+03	Apriori clock (usec)	1.7290001E+00	Resid sbdelay (usec)	-5.78312E-01	+/- 5.4E-03
Phase delay (usec)	-3.04011695448E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.90336E-06	+/- 4.4E-07
Delay rate (us/s)	-4.91021003386E-01	Apriori rate (us/s)	-4.91010392585E-01	Resid rate (us/s)	-1.06108E-05	+/- 2.5E-09
Total phase (deg)	307.4	Apriori accel (us/s/s)	1.75665889654E-05	Resid phase (deg)	202.7	+/- 13.5

ph/seg (deg)	RMS 93.6	Theor. 115.7	Amplitude Search (2048X8)	1.728 +/- 0.204	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.2	201.9	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.	0.764	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.9	11.8	Inc. frq. avg.	1.705	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
n: az 230.7 el 49.7 pa 36.0	o: az 189.2 el 64.2 pa 8.2		u,v (fr/asec) 2891.316 810.591		Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

Fringe quality 8

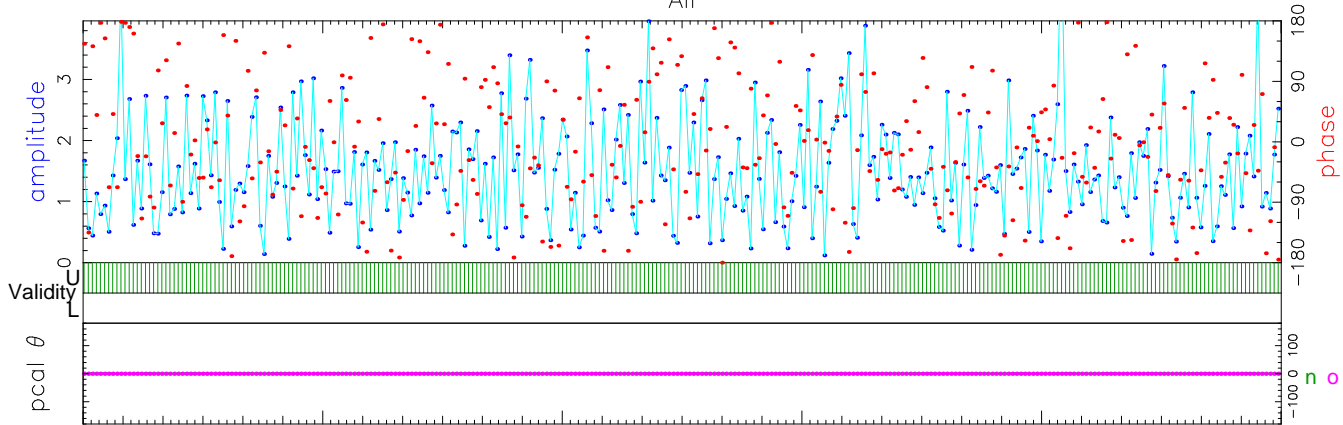


SNR 9.1
Int time 299.974
Amp 1.320
Phase -136.8
PFD 1.1e-12
Delays (us)
SBD 0.601449
MBD 0.000006
Fringe rate (Hz)
0.323279
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052012
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



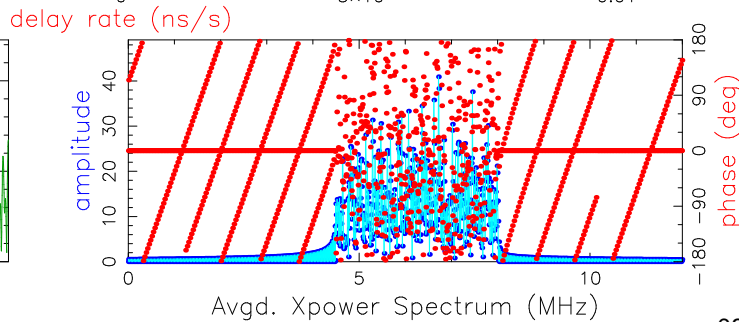
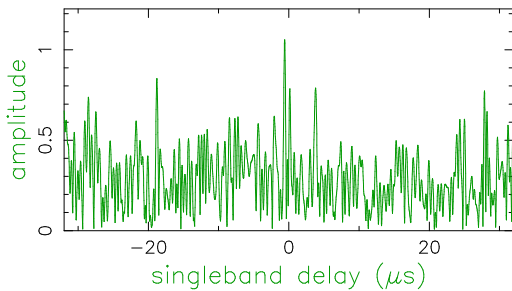
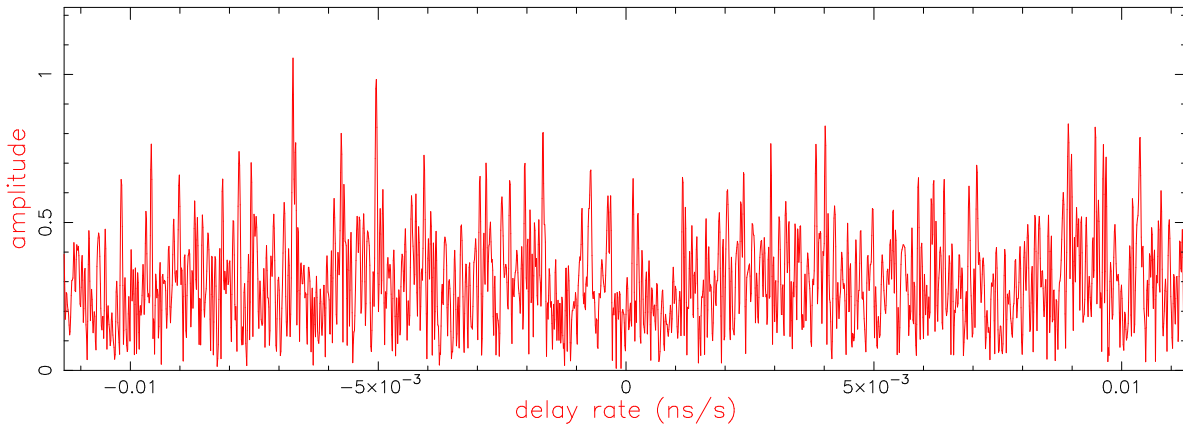
86227.00
-19.4
0.4
1565.9
U/L 586/0
n 0
o 0
n:o 0:0
n:o 0:0
n 1000
o 1000
n W03UL
o W03UL

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)	-3.03951550437E+03	Apriori delay (usec)	-3.04011695739E+03	Resid mbdelay (usec)	5.67330E-06	+/-	5.0E-03
Sband delay (usec)	-3.03951550805E+03	Apriori clock (usec)	1.7290001E+00	Resid sbdelay (usec)	6.01449E-01	+/-	5.0E-03
Phase delay (usec)	-3.04011695801E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-6.26861E-07	+/-	4.0E-07
Delay rate (us/s)	-4.91006639640E-01	Apriori rate (us/s)	-4.91010392585E-01	Resid rate (us/s)	3.75294E-06	+/-	2.3E-09
Total phase (deg)	-32.1	Apriori accel (us/s/s)	1.75665889654E-05	Resid phase (deg)	-136.8	+/-	12.5

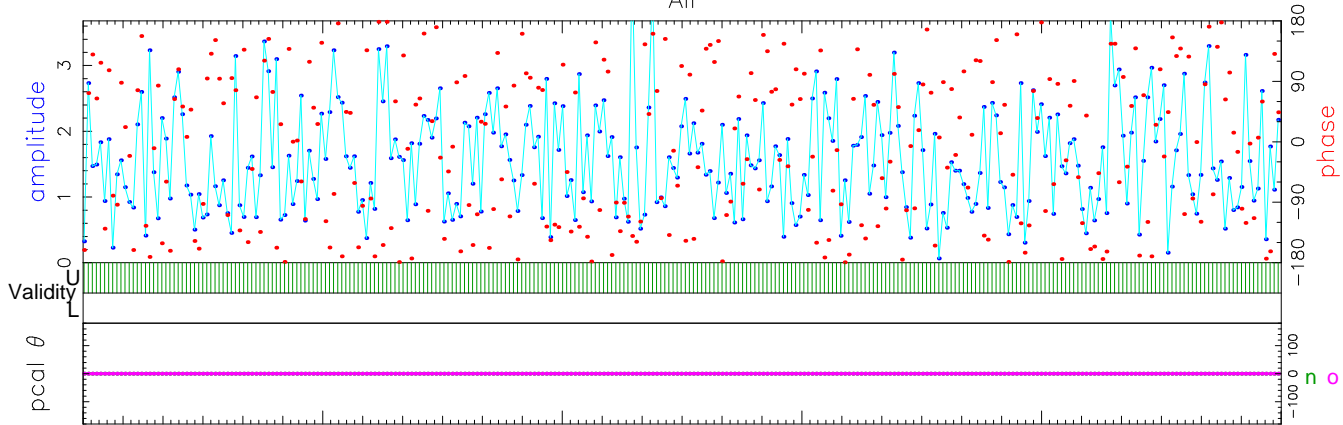
ph/seg (deg)	91.6	Theor.	107.2	Amplitude	1.320 +/- 0.144	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	71.9	Search (2048X8)	1.248	Search	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.579	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	Inc. frq. avg.	1.312	Inc. frq. avg.	1.312	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
n: az 230.7 el 49.7 pa 36.0		o: az 189.2 el 64.2 pa 8.2		u,v (fr/asec)	2891.316 810.591	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/No0020/no..1T5H1A		Output file: /Exps/c211d/v1/LINES1/1234/No0020/no.W.82.1T5H1A		nlags: 1536 t_cohere infinite	simultaneous interpolator

Fringe quality 8



SNR 7.7
Int time 299.974
Amp 1.227
Phase 345.1
PFD 2.7e-07
Delays (us)
SBD -0.592127
MBD -0.000005
Fringe rate (Hz)
-0.578120
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052013
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
159.8
0.4
1508.6
U/L 586/0
n 0
o 0
n:o 0:0
n:o 0:0
n 1000
o 1000
n W03UR
o W03UR

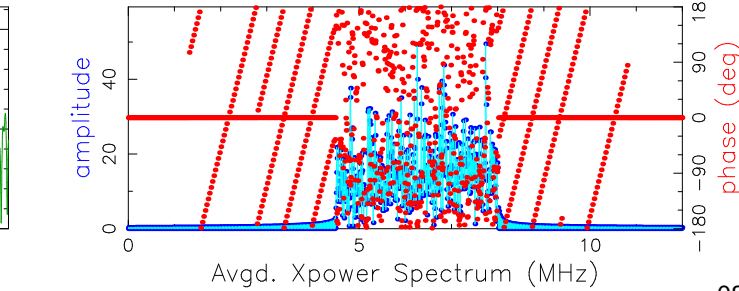
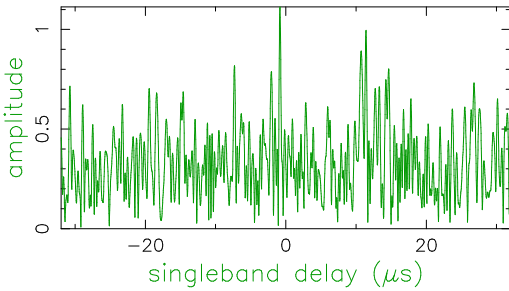
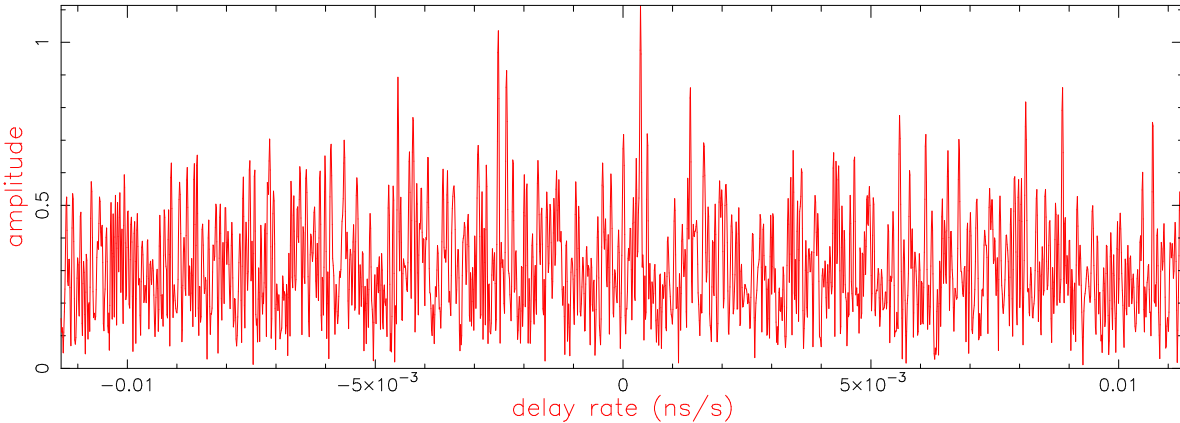
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-3.04070908531E+03	Apriori delay (usec)	-3.04011695739E+03	Resid mbdelay (usec)	-4.80267E-06	+/-	6.0E-03
Sband delay (usec)	-3.04070908405E+03	Apriori clock (usec)	1.7290001E+00	Resid sbdelay (usec)	-5.92127E-01	+/-	6.0E-03
Phase delay (usec)	-3.04011695223E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.15444E-06	+/-	4.8E-07
Delay rate (us/s)	-4.91017103985E-01	Apriori rate (us/s)	-4.91010392585E-01	Resid rate (us/s)	-6.71140E-06	+/-	2.8E-09
Total phase (deg)	89.8	Apriori accel (us/s/s)	1.75665889654E-05	Resid phase (deg)	345.1	+/-	14.9

ph/seg (deg)	RMS 93.3	Theor. 127.9	Amplitude Search (2048X8)	1.227 +/- 0.160	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	90.0	223.2	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	7.5	Inc. seg. avg.	0.523	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.8	13.0	Inc. frq. avg.	1.214	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
n: az 230.7 el 49.7 pa 36.0	o: az 189.2 el 64.2 pa 8.2		u,v (fr/asec) 2891.316 810.591		Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite
Control file: cf_1234_gmva_line		Input file: /Exps/c211d/v1/LINES1/1234/No0020/no..1T5H1A		Output file: /Exps/c211d/v1/LINES1/1234/No0020/no.W.91.1T5H1A		

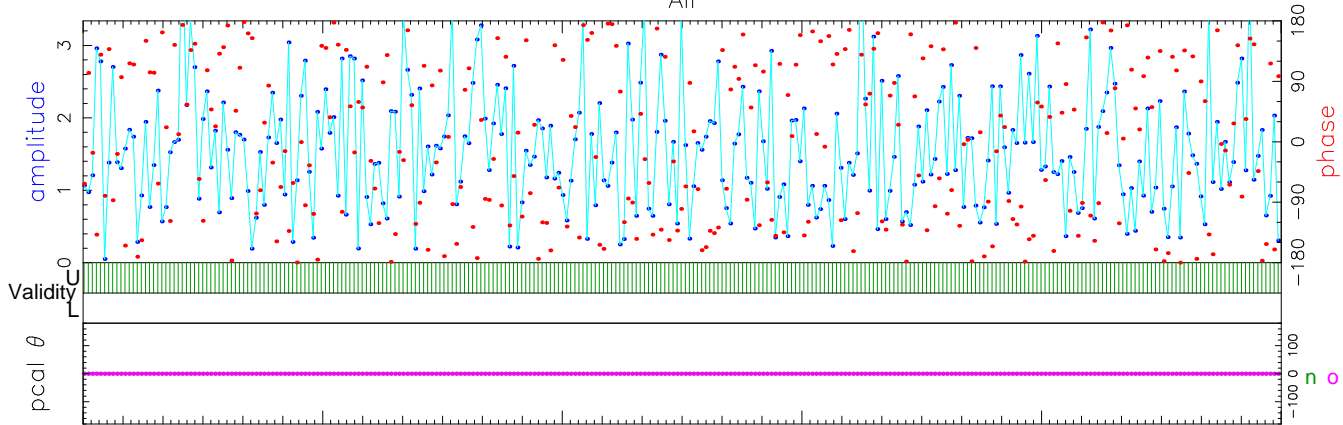
simultaneous interpolator

Fringe quality 8



SNR 8.1
Int time 299.974
Amp 1.113
Phase 124.9
PFD 1.1e-08
Delays (us)
SBD -0.836999
MBD 0.000006
Fringe rate (Hz)
0.030559
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052014
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



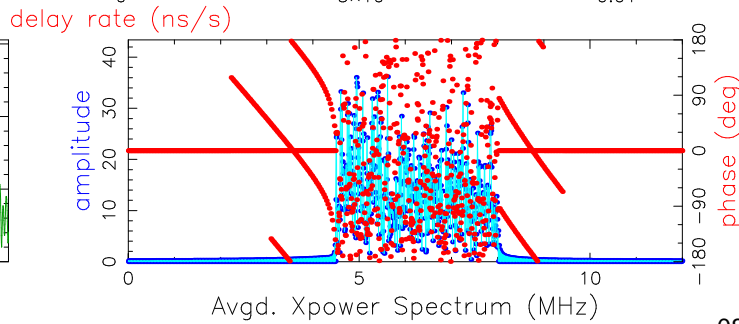
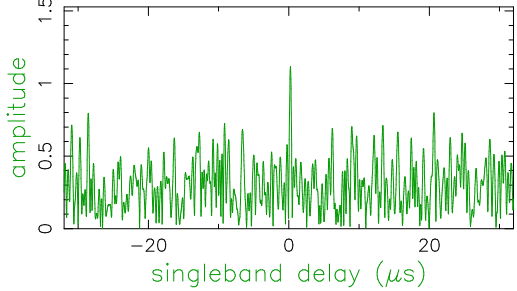
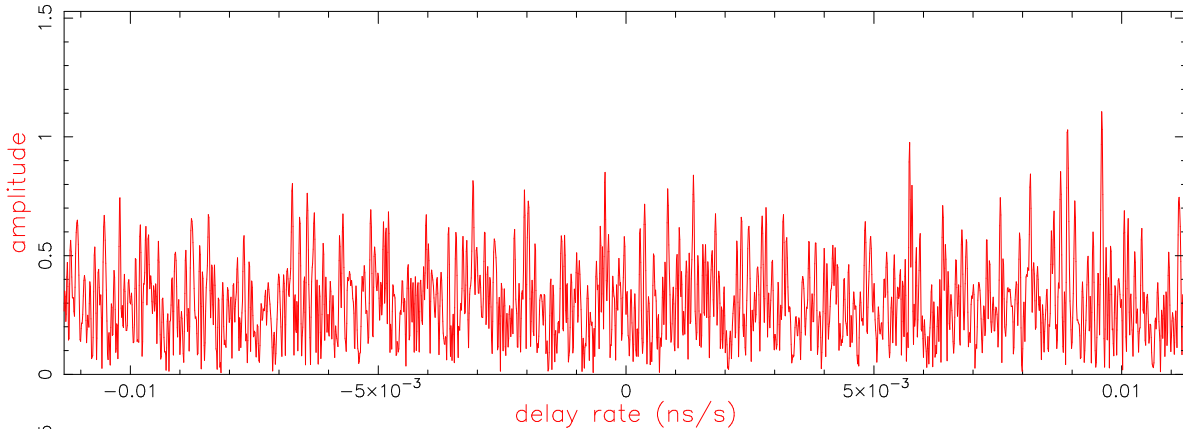
86227.00
-170.0
0.3
1496.8
U/L 586/0
n 0
o 0
n:o 0:0
n:o 0:0
n 1000
o 1000
n W03UL
o W03UR

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)	-3.04095395121E+03	Apriori delay (usec)	-3.04011695739E+03	Resid mbdelay (usec)	6.19129E-06	+/-	5.7E-03
Sband delay (usec)	-3.04095395605E+03	Apriori clock (usec)	1.7290001E+00	Resid sbdelay (usec)	-8.36999E-01	+/-	5.7E-03
Phase delay (usec)	-3.04011696287E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.48056E-06	+/-	4.6E-07
Delay rate (us/s)	-4.91010037826E-01	Apriori rate (us/s)	-4.91010392585E-01	Resid rate (us/s)	3.54759E-07	+/-	2.6E-09
Total phase (deg)	229.5	Apriori accel (us/s/s)	1.75665889654E-05	Resid phase (deg)	124.9	+/-	14.2

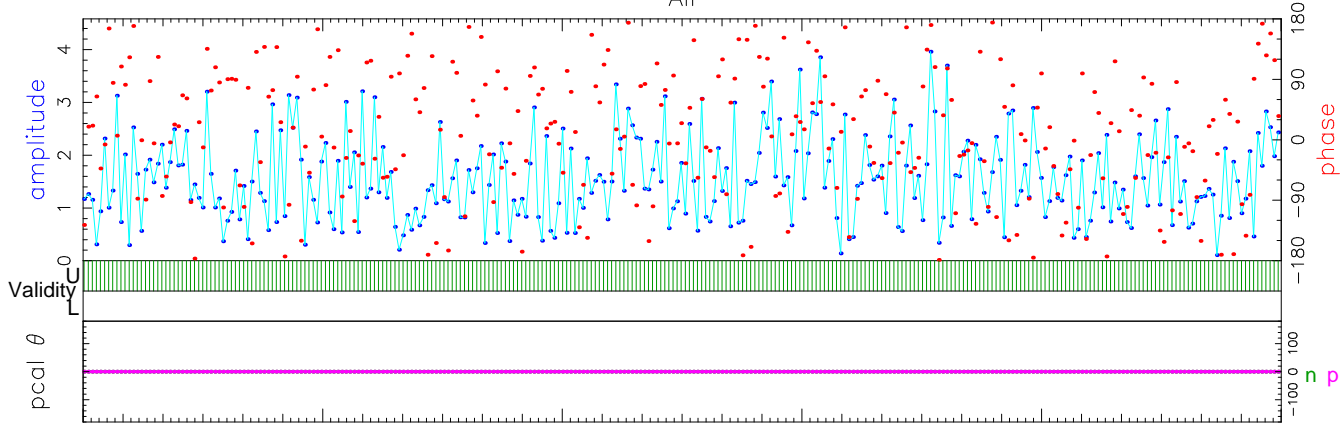
ph/seg (deg)	RMS 91.6	Theor. 121.5	Amplitude Search (2048X8)	1.113 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	85.5	212.1	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	7.1	Inc. seg. avg.	0.481	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.000 0.000
amp/frq (%)	70.7	12.4	Inc. frq. avg.	1.105	Sample rate(MISamp/s): 24		dr window (ns/s)	-0.011 0.011
n: az 230.7 el 49.7 pa 36.0			o: az 189.2 el 64.2 pa 8.2		Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC)	0.00 0.00

Fringe quality 8



SNR 8.1
Int time 299.974
Amp 1.528
Phase -287.7
PFD 9.4e-09
Delays (us)
SBD 0.229167
MBD 0.000007
Fringe rate (Hz)
0.826468
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052014
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



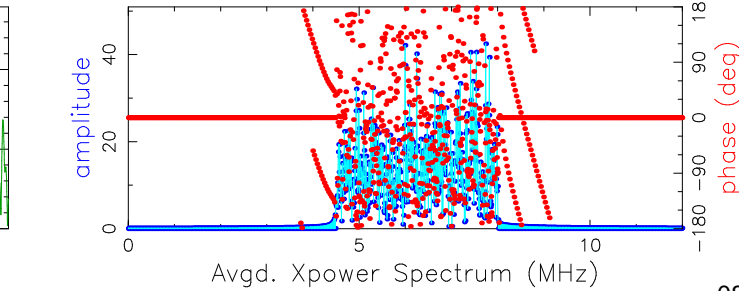
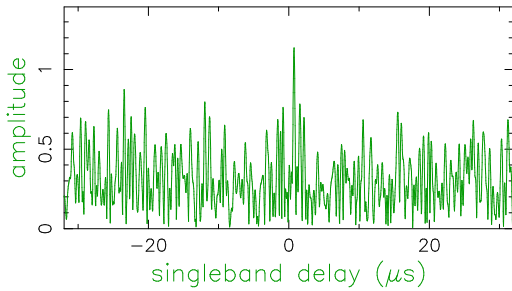
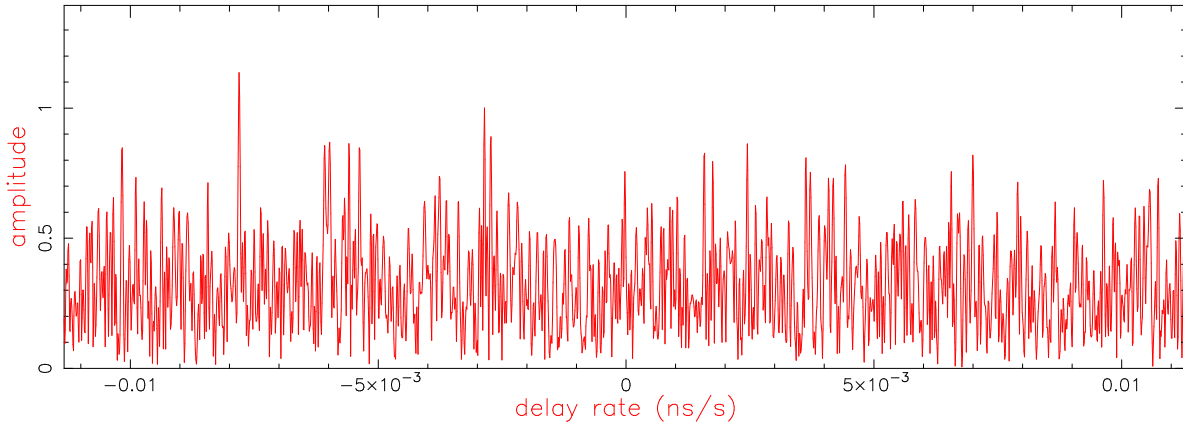
86227.00
49.7
0.4
1547.9
U/L 586/0
n 0
p 0
n:p 0:0
n:p 0:0
n 1000
p 1000
n W03UR
p W03UL

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)	-2.95417526968E+03	Apriori delay (usec)	-2.95440443905E+03	Resid mbdelay (usec)	6.81875E-06	+/-	5.7E-03
Sband delay (usec)	-2.95417527239E+03	Apriori clock (usec)	-4.7000885E-02	Resid sbdelay (usec)	2.29167E-01	+/-	5.7E-03
Phase delay (usec)	-2.95440443745E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.60334E-06	+/-	4.6E-07
Delay rate (us/s)	-2.67922311402E-01	Apriori rate (us/s)	-2.67931905881E-01	Resid rate (us/s)	9.59448E-06	+/-	2.6E-09
Total phase (deg)	-64.5	Apriori accel (us/s/s)	1.80449976710E-05	Resid phase (deg)	-287.7	+/-	14.2

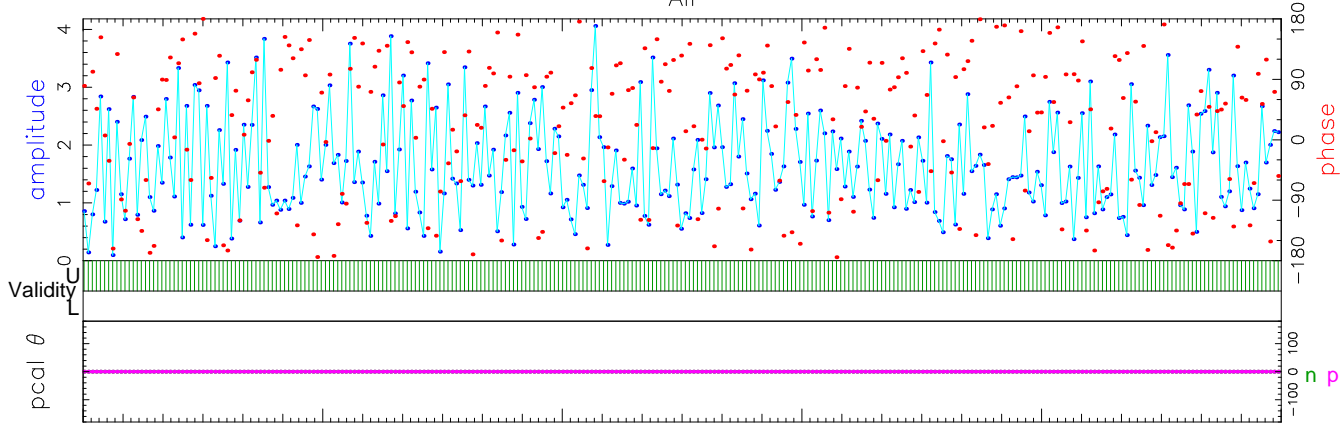
ph/seg (deg)	RMS 90.7	Theor. 121.2	Amplitude Search (2048X8)	1.528 +/- 0.189	1.097	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	81.6	211.5	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	7.1	Inc. seg. avg.	0.657	Bits/sample: 2x2	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
amp/frq (%)	71.0	12.4	Inc. frq. avg.	1.503	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	dr window (ns/s) -0.011 0.011
n: az 230.7 el 49.7 pa 36.0		p: az 213.2 el 63.9 pa 28.5		u,v (fr/asec) 1586.799 1179.246			ion window (TEC) 0.00 0.00

Fringe quality 8



SNR 8.3
Int time 299.974
Amp 1.395
Phase -23.9
PFD 2.5e-09
Delays (us)
SBD 0.739709
MBD -0.000007
Fringe rate (Hz)
-0.671630
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052012
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



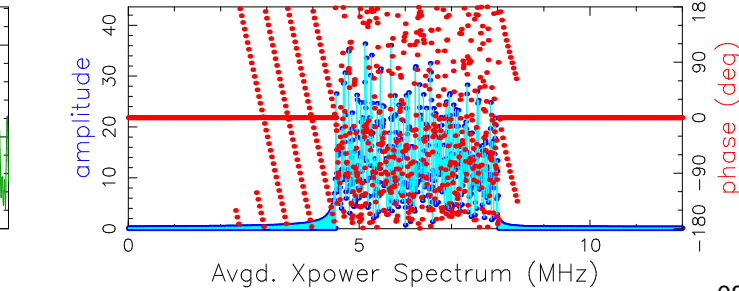
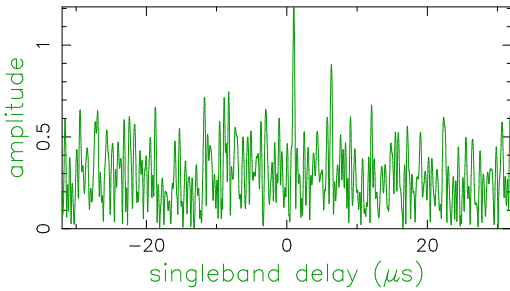
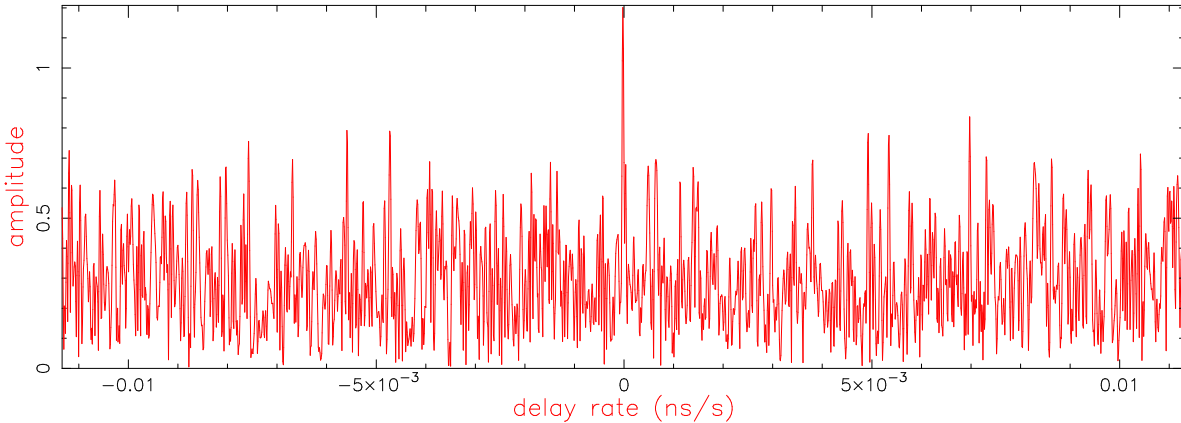
86227.00	103.8	0.4	1572.5	U/L 586/0	n 0	p 0	n:p 0:0	n:p 0:0	n 1000	p 1000	n W03UL	p W03UL	Chan ids	Chan ids
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Group delay (usec)(sbd)	-2.95366473540E+03	Apriori delay (usec)	-2.95440443905E+03	Resid mbdelay (usec)	-6.64404E-06	+/-	5.6E-03
Sband delay (usec)	-2.95366472972E+03	Apriori clock (usec)	-4.7000885E-02	Resid sbdelay (usec)	7.39709E-01	+/-	5.6E-03
Phase delay (usec)	-2.95440443571E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.34679E-06	+/-	4.5E-07
Delay rate (us/s)	-2.67939702836E-01	Apriori rate (us/s)	-2.67931905881E-01	Resid rate (us/s)	-7.79696E-06	+/-	2.6E-09
Total phase (deg)	-160.8	Apriori accel (us/s/s)	1.80449976710E-05	Resid phase (deg)	-23.9	+/-	13.9

ph/seg (deg)	RMS 90.9	Theor. 118.8	Amplitude Search (2048X8)	1.395 +/- 0.169	1.127	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	87.3	207.3	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.	0.643	Sample rate(MISamp/s): 24	ion window (TEC)	dr window (ns/s) -0.011 0.011
amp/frq (%)	70.8	12.1	Inc. frq. avg.	1.381	Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite	ion window (TEC) 0.00 0.00

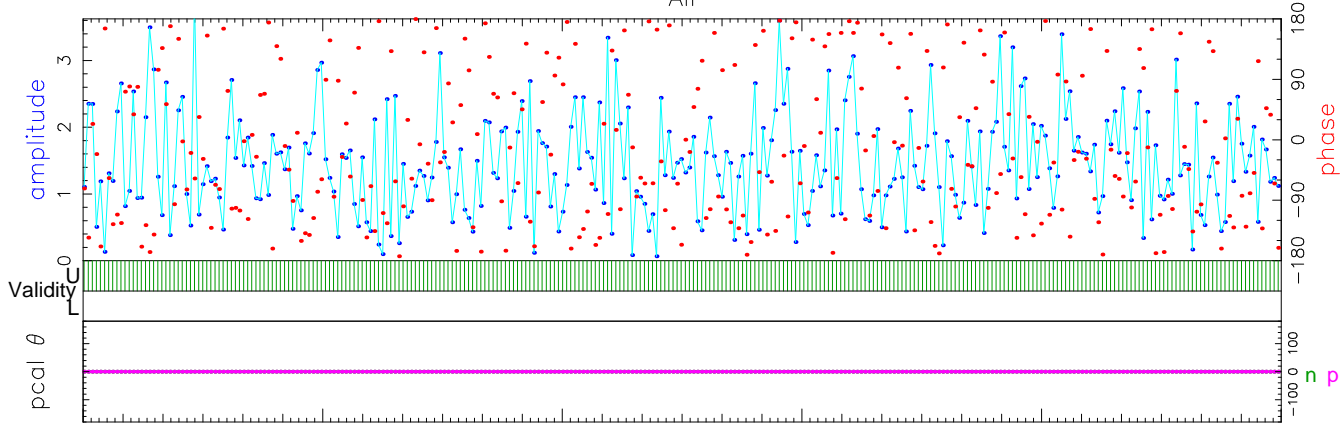
n: az 230.7 el 49.7 pa 36.0 p: az 213.2 el 63.9 pa 28.5 u,v (fr/asec) 1586.799 1179.246 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/np..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/np.W.87.1T5H1A

Fringe quality 8



SNR 8.8
Int time 299.974
Amp 1.208
Phase -1.5
PFD 3.4e-11
Delays (us)
SBD 0.996491
MBD -0.000007
Fringe rate (Hz)
-0.002321
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052013
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



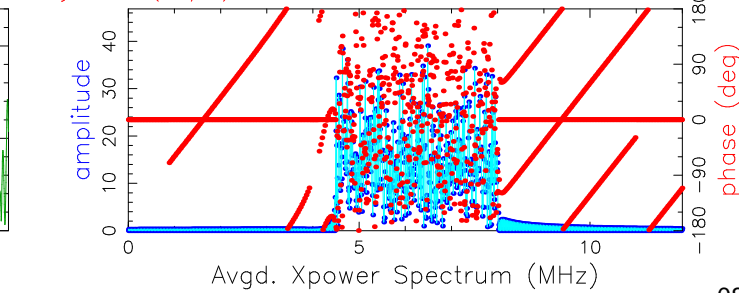
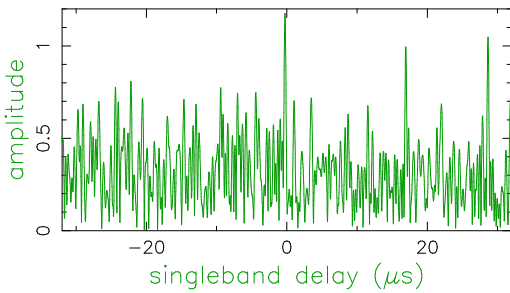
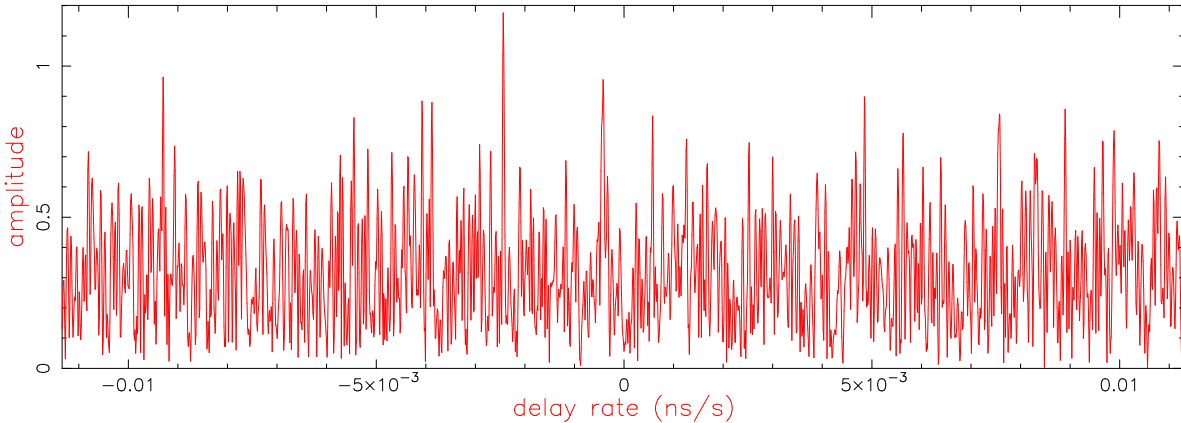
86227.00
-111.2
0.4
1584.8
U/L 586/0
n 0
p 0
n:p 0:0
n:p 0:0
n 1000
p 1000
n W03UR
p W03UR

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)	-2.95340794867E+03	Apriori delay (usec)	-2.95440443905E+03	Resid mbdelay (usec)	-7.23379E-06	+/-	5.2E-03
Sband delay (usec)	-2.95340794839E+03	Apriori clock (usec)	-4.7000885E-02	Resid sbdelay (usec)	9.96491E-01	+/-	5.2E-03
Phase delay (usec)	-2.95440444264E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.58464E-06	+/-	4.2E-07
Delay rate (us/s)	-2.67931932826E-01	Apriori rate (us/s)	-2.67931905881E-01	Resid rate (us/s)	-2.69450E-08	+/-	2.4E-09
Total phase (deg)	-138.3	Apriori accel (us/s/s)	1.80449976710E-05	Resid phase (deg)	-1.5	+/-	13.1

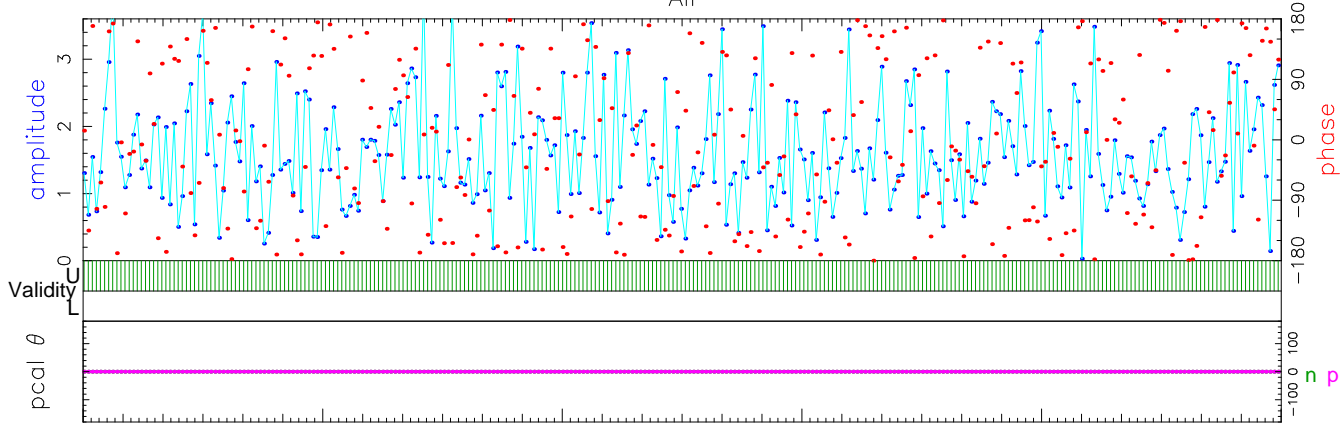
ph/seg (deg)	RMS 92.3	Theor. 112.0	Amplitude Search (2048X8)	1.208 +/- 0.138	1.180	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	66.3	195.4	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.5	Inc. seg. avg.	0.503	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.9	11.4	Inc. frq. avg.	1.193	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
n: az 230.7 el 49.7 pa 36.0			p: az 213.2 el 63.9 pa 28.5				ion window (TEC) 0.00 0.00

Fringe quality 8



SNR 8.5
Int time 299.974
Amp 1.201
Phase 99.1
PFD 2.3e-10
Delays (us)
SBD -0.261483
MBD -0.000007
Fringe rate (Hz)
-0.209818
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052014
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



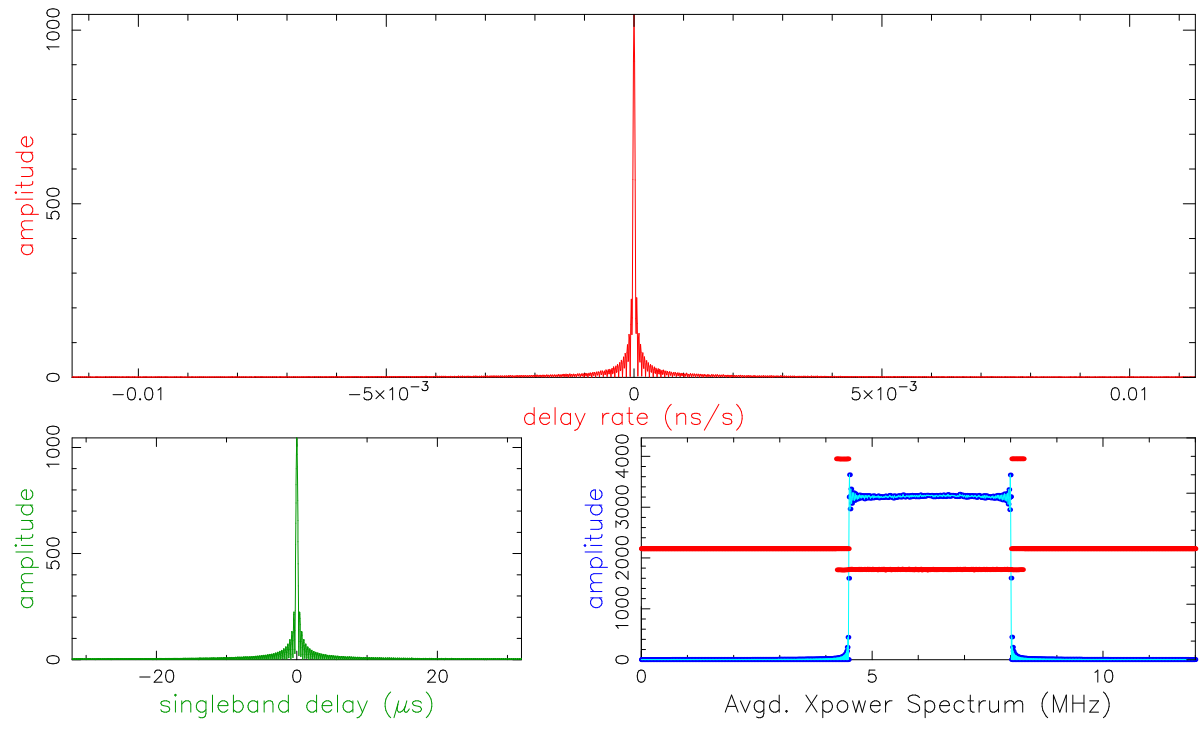
86227.00
-170.2
0.4
1524.5
U/L 586/0
n 0
p 0
n:p 0:0
n:p 0:0
n 1000
p 1000
n W03UL
p W03UR

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)	-2.95466591835E+03	Apriori delay (usec)	-2.95440443905E+03	Resid mbdelay (usec)	-6.67540E-06	+/-	5.4E-03
Sband delay (usec)	-2.95466592172E+03	Apriori clock (usec)	-4.7000885E-02	Resid sbdelay (usec)	-2.61483E-01	+/-	5.4E-03
Phase delay (usec)	-2.95440444454E+03	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.48877E-06	+/-	4.3E-07
Delay rate (us/s)	-2.67934341654E-01	Apriori rate (us/s)	-2.67931905881E-01	Resid rate (us/s)	-2.43577E-06	+/-	2.5E-09
Total phase (deg)	322.3	Apriori accel (us/s/s)	1.80449976710E-05	Resid phase (deg)	99.1	+/-	13.4

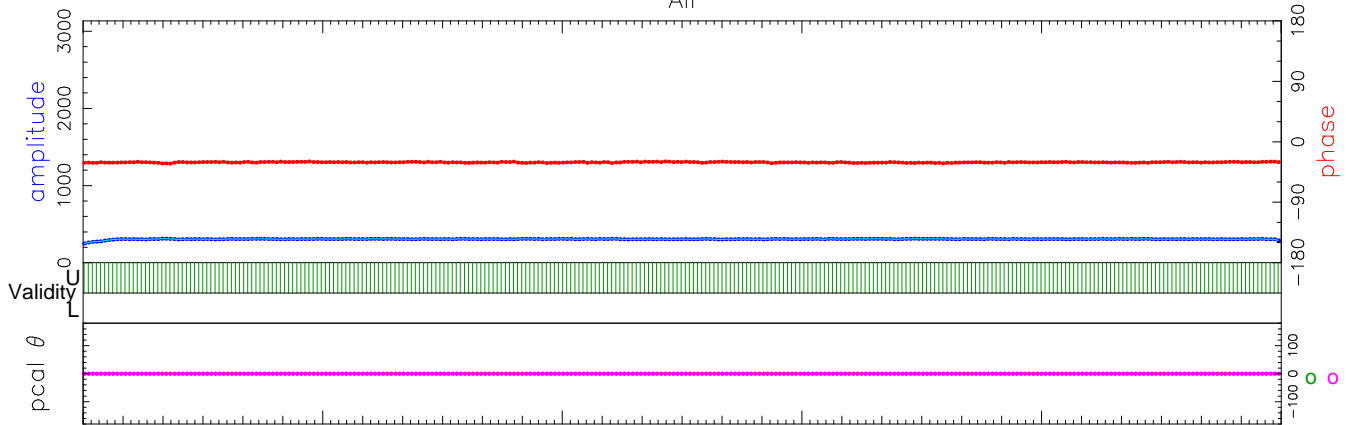
ph/seg (deg)	RMS 95.4	Theor. 114.8	Amplitude Search (2048X8)	1.201 +/- 0.141	1.172	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	77.4	200.4	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.7	Inc. seg. avg.	0.546	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.8	11.7	Inc. frq. avg.	1.190	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
n: az 230.7 el 49.7 pa 36.0			p: az 213.2 el 63.9 pa 28.5				ion window (TEC) 0.00 0.00

n: az 230.7 el 49.7 pa 36.0 p: az 213.2 el 63.9 pa 28.5 u,v (fr/asec) 1586.799 1179.246 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/np..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/np.W.98.1T5H1A



Fringe quality 5
SNR 7578.7
Int time 299.974
Amp 1045.194
Phase -74.5
PFD 0.0e+00
Delays (us)
SBD 0.001392
MBD -0.000006
Fringe rate (Hz)
-0.000003
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052014
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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

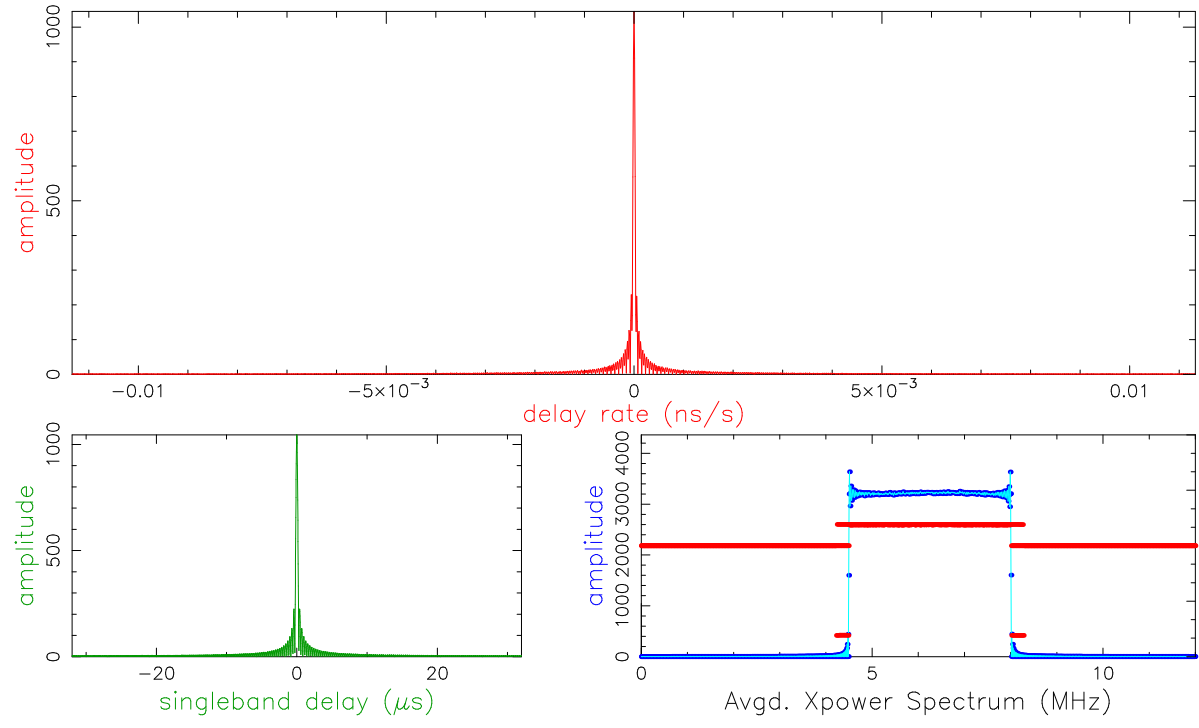


86227.00
-30.6
306.2
1537.1
U/L 586/0
o 0
o 0
o:o 0:0
o:o 0:0
o 1000
o 1000
o W03UL
o W03UR

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

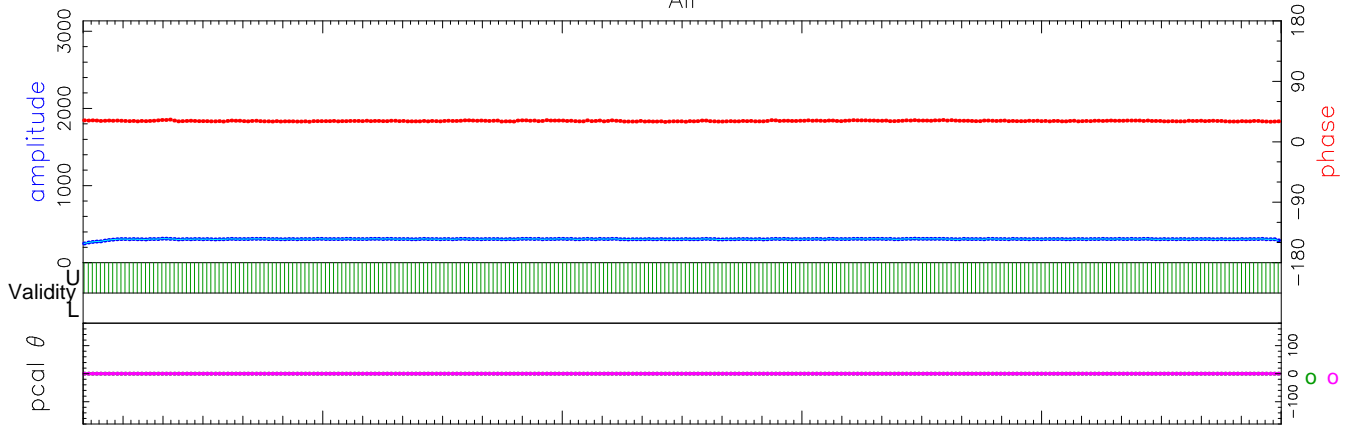
Group delay (usec)(sbd)	1.39701235112E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.26041E-06	+/-	6.1E-06
Sband delay (usec)	1.39200000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.39200E-03	+/-	6.1E-06
Phase delay (usec)	-9.85288539543E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-9.85289E-07	+/-	4.9E-10
Delay rate (us/s)	-3.61364385988E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-3.61364E-11	+/-	2.8E-12
Total phase (deg)	-74.5	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-74.5	+/-	0.0

RMS Theor. Amplitude 1045.194 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 0.5 0.1 Search (2048X8) 1045.151 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. 306.210 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011
amp/frq (%) 70.7 0.0 Inc. frq. avg. 1045.153 Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite ion window (TEC) 0.00 0.00
o: az 189.2 el 64.2 pa 8.2 o: az 189.2 el 64.2 pa 8.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator



Fringe quality 5
SNR 7578.7
Int time 299.974
Amp 1045.194
Phase 74.2
PFD 0.0e+00
Delays (us)
SBD -0.001392
MBD -0.000007
Fringe rate (Hz)
0.000003
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052015
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
31.0
306.2
1536.9
U/L 586/0
o 0
o 0
o:o 0:0
o:o 0:0
o 1000
o 1000
o 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

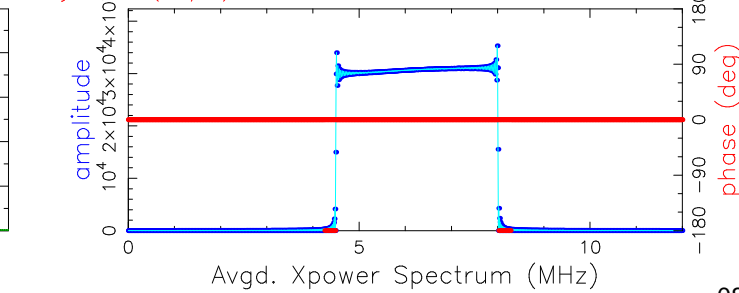
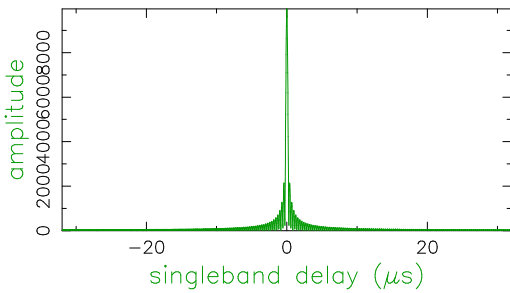
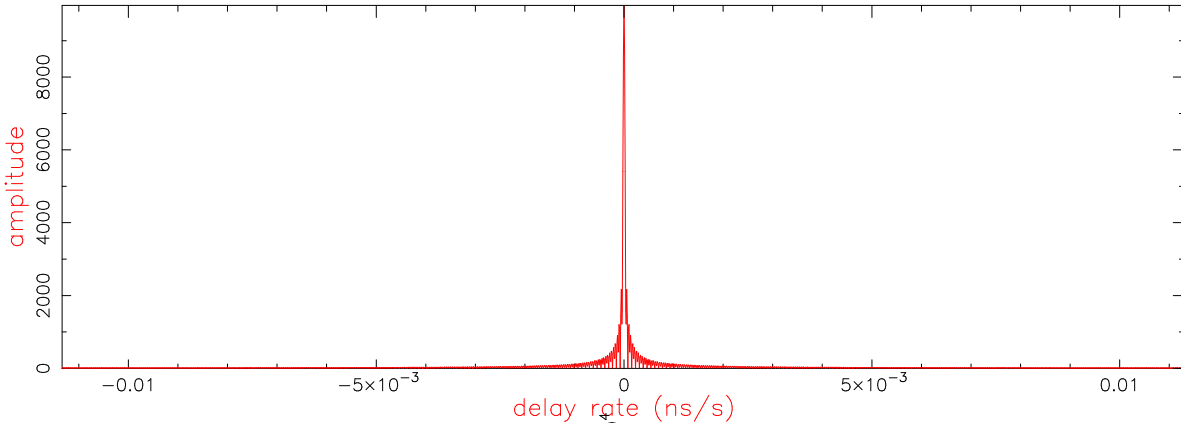
Group delay (usec)(sbd)	-1.38685562527E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.77746E-06	+/-	6.1E-06
Sband delay (usec)	-1.39200000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.39200E-03	+/-	6.1E-06
Phase delay (usec)	9.99364711160E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	9.99365E-07	+/-	4.9E-10
Delay rate (us/s)	3.61364385988E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	3.61364E-11	+/-	2.8E-12
Total phase (deg)	74.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	74.2	+/-	0.0

RMS Theor. Amplitude 1045.194 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 0.5 0.1 Search (2048X8) 1045.151 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. 306.210 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011
amp/frq (%) 70.7 0.0 Inc. frq. avg. 1045.153 Data rate(Mb/s): 48 nlags: 1536 t_cohere infinite ion window (TEC) 0.00 0.00
o: az 189.2 el 64.2 pa 8.2 o: az 189.2 el 64.2 pa 8.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

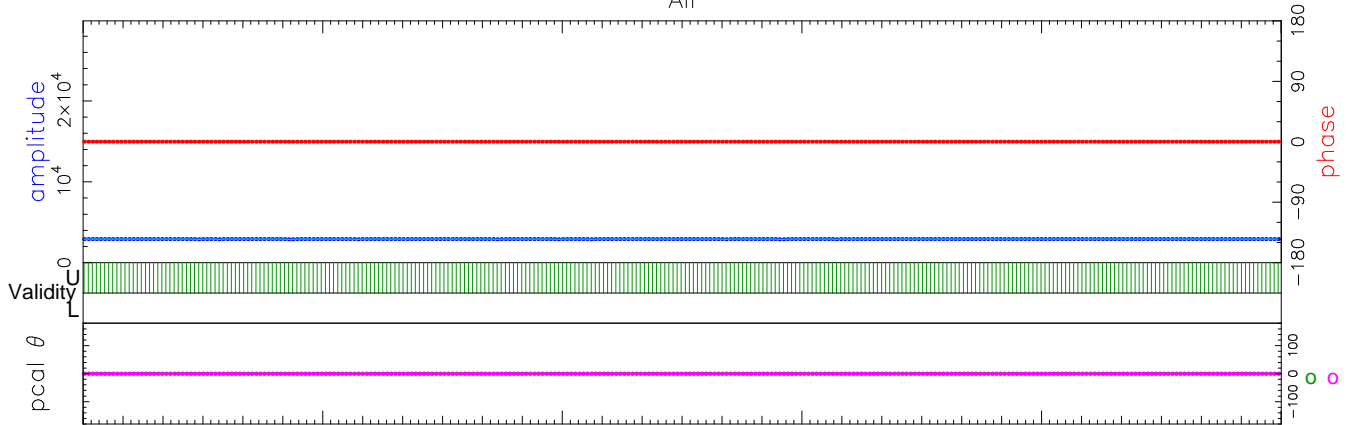
Fringe quality 5

SNR 72283.7
Int time 299.974
Amp 9968.854
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 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052012
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"



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



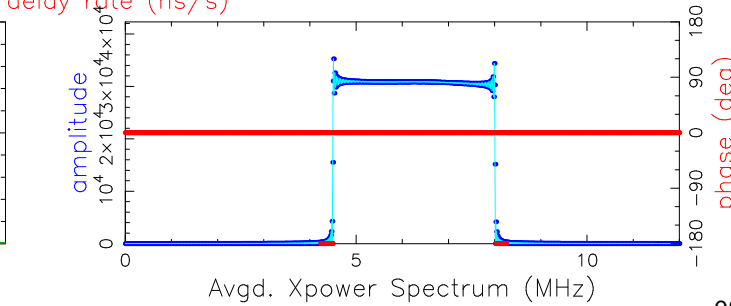
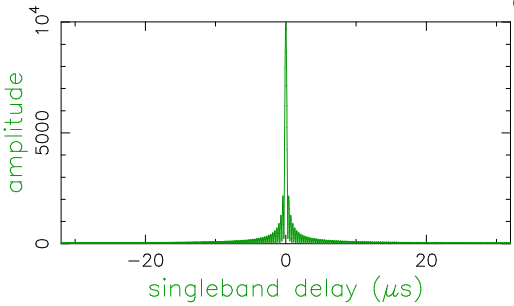
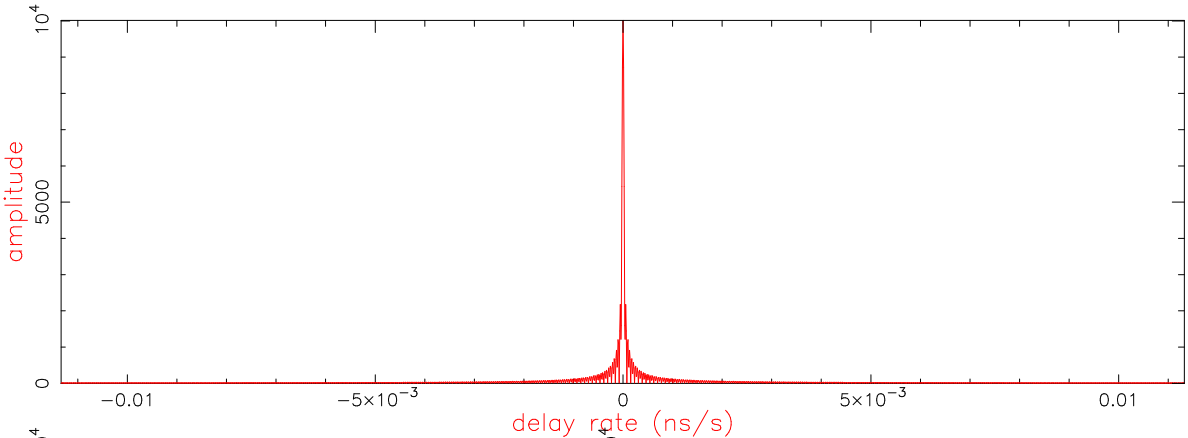
86227.00
0.2
2920.6
1537.0
U/L 586/0
o 0
o 0
o:o 0:0
o:o 0:0
o 1000
o 1000
o W03UL
o W03UL

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)	5.27676945736E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.32053E-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)	6.82387883630E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.82388E-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	+/-	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	9968.854 +/- 0.138	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	70.7		0.0	Search (2048X8)	9968.854	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.	2920.563	Sample rate(MISamp/s):	24	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	9968.854	Data rate(Mb/s):	48	ion window (TEC)	0.00 0.00	
						nlags:	1536 t_cohere infinite			

o: az 189.2 el 64.2 pa 8.2 o: az 189.2 el 64.2 pa 8.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/oo..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/oo.W.85.1T5H1A

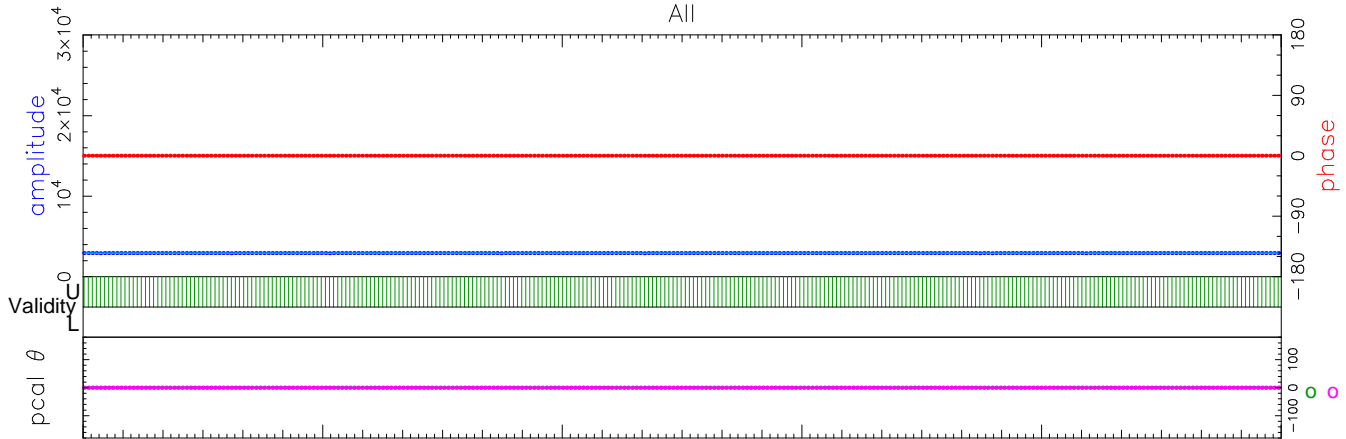


Fringe quality 5

SNR 72615.7
Int time 299.974
Amp 10014.631
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 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052013
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



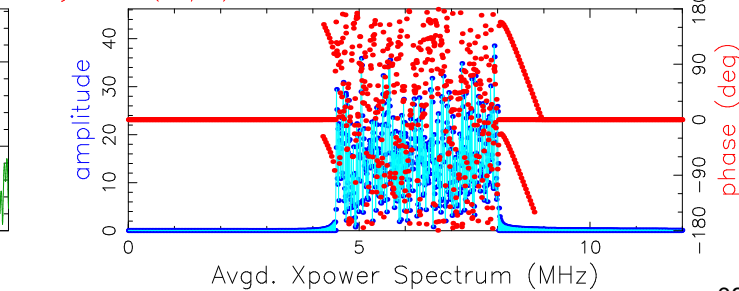
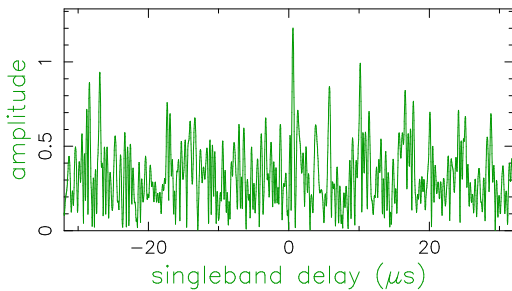
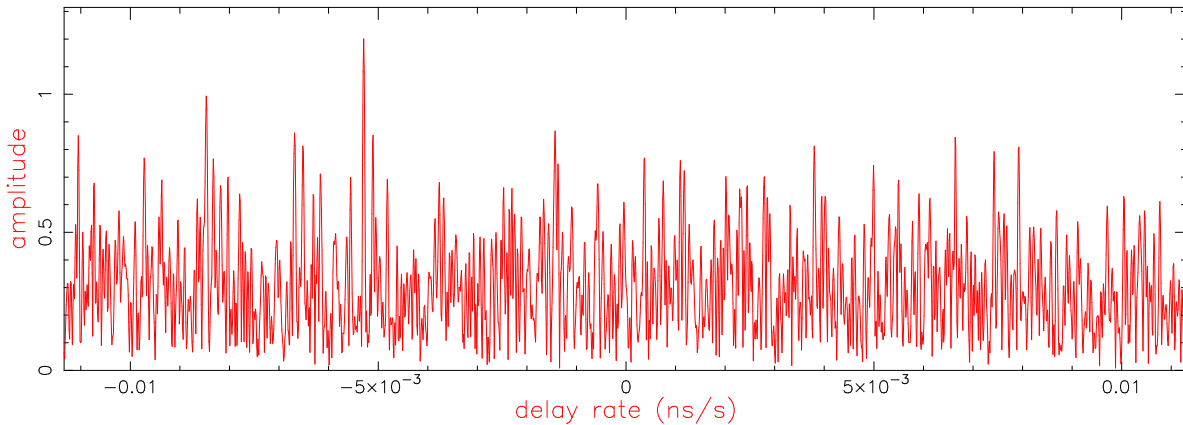
86227.00
0.2
2934.0
1537.0
U/L 586/0
o 0
o 0
o:0 0:0
o:0 0:0
o 1000
o 1000
o W03UR
o W03UR

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

Group delay (usec)(sbd)	-4.95204518306E-06	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.95205E-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)	5.34641516165E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.34642E-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

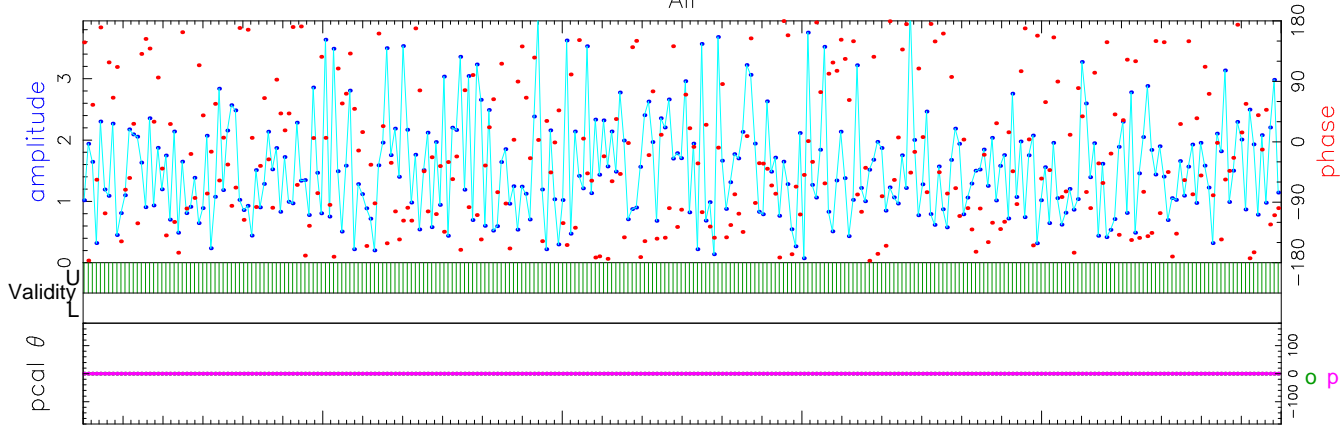
ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10014.631 +/- 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 70.7 0.0 Search (2048X8) 10014.631 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.000 0.000
amp/frq (%) 70.7 0.0 Inc. seg. avg. 2933.974 Sample rate(MISamp/s): 24 dr window (ns/s) -0.011 0.011
o: az 189.2 el 64.2 pa 8.2 o: az 189.2 el 64.2 pa 8.2 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/No0020/oo..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/oo.W.95.1T5H1A simultaneous interpolator

Fringe quality 8



SNR 8.7
Int time 299.974
Amp 1.315
Phase -37.8
PFD 5.6e-11
Delays (us)
SBD 0.584457
MBD -0.000004
Fringe rate (Hz)
-0.455158
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052014
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
-92.6
0.4
1565.1
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)	8.62969712656E+01	Apriori delay (usec)	8.57125183329E+01	Resid mbdelay (usec)	-4.37183E-06	+/- 5.3E-03
Sband delay (usec)	8.62969756663E+01	Apriori clock (usec)	-1.7760010E+00	Resid sbdelay (usec)	5.84457E-01	+/- 5.3E-03
Phase delay (usec)	8.57125153468E+01	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.98608E-06	+/- 4.2E-07
Delay rate (us/s)	2.23073202776E-01	Apriori rate (us/s)	2.23078486704E-01	Resid rate (us/s)	-5.28393E-06	+/- 2.5E-09
Total phase (deg)	-279.3	Apriori accel (us/s/s)	4.78408705589E-07	Resid phase (deg)	-37.8	+/- 13.2

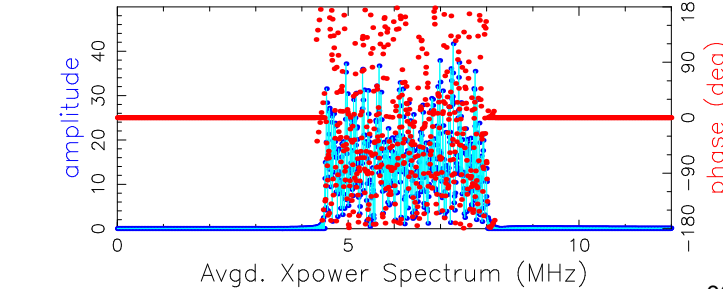
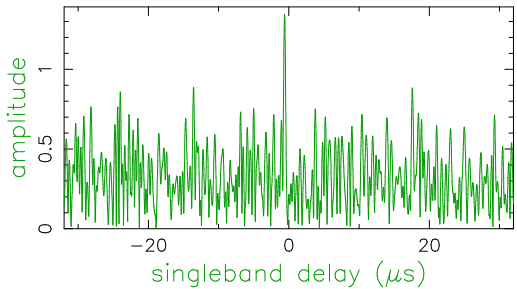
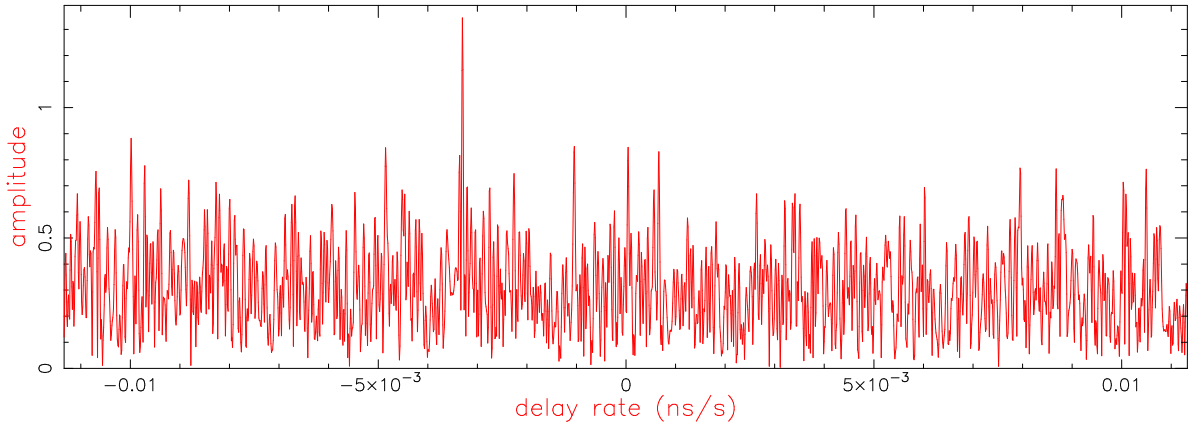
ph/seg (deg)	RMS 93.3	Theor. 112.7	Amplitude Search (2048X8)	1.315 +/- 0.151	1.189	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	75.7	196.7	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	6.6	Inc. seg. avg.	0.580	Sample rate(MISamp/s): 24	nlags: 1536 t_cohere infinite	mb window (us) -0.000 0.000
amp/frq (%)	70.7	11.5	Inc. frq. avg.	1.306	Data rate(Mb/s): 48		dr window (ns/s) -0.011 0.011
			o: az 189.2 el 64.2 pa 8.2		u,v (fr/asec) -1304.516 368.656		ion window (TEC) 0.00 0.00
			p: az 213.2 el 63.9 pa 28.5		simultaneous interpolator		

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/op..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/op.W.103.1T5H1A

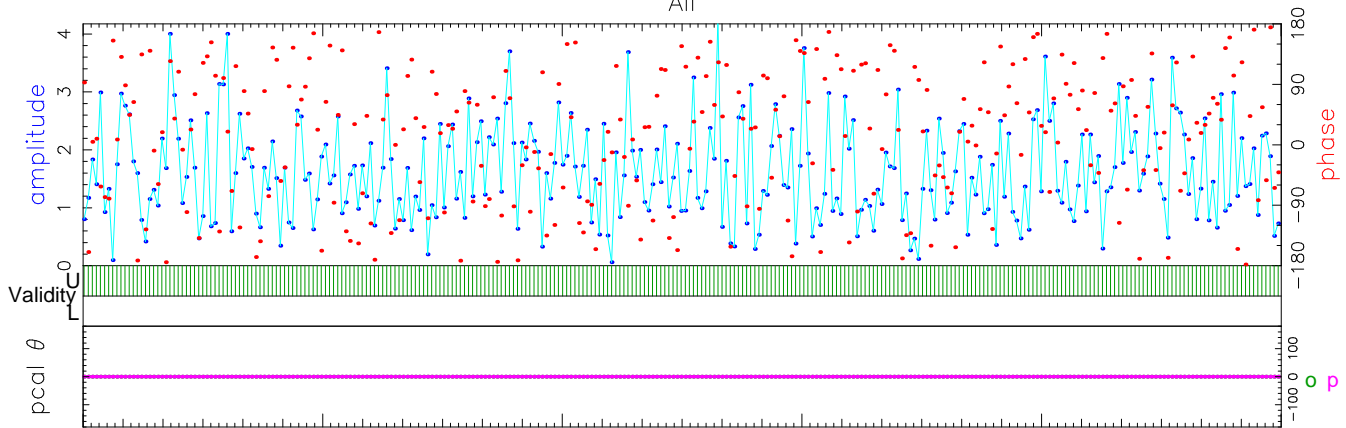
Fringe quality 8

SNR 9.7
Int time 299.974
Amp 1.392
Phase 39.2
PFD 3.7e-15
Delays (us)
SBD -0.608361
MBD -0.000005
Fringe rate (Hz)
-0.283605
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052015
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"



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



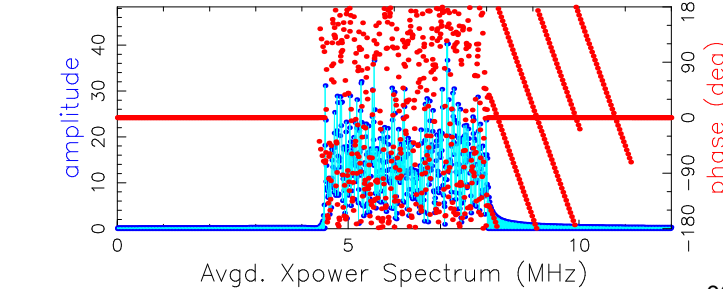
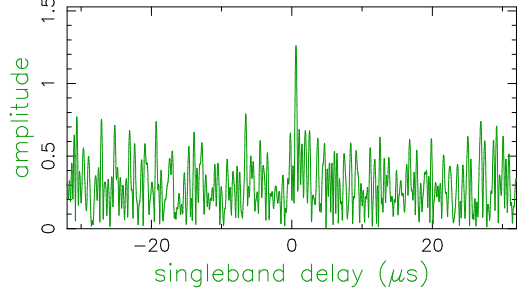
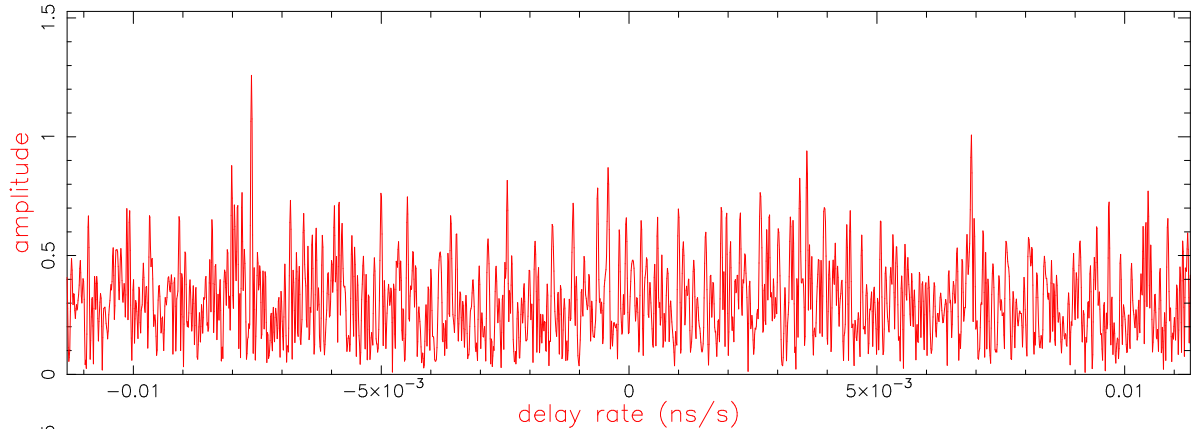
86227.00
65.4
0.4
1507.8
U/L 586/0
o 0
p 0
o:p 0:0
op 0:0
o 1000
p 1000
o W03UR
p W03UL

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)	8.51041544619E+01	Apriori delay (usec)	8.57125183329E+01	Resid mbdelay (usec)	-4.54043E-06	+/- 4.7E-03
Sband delay (usec)	8.51041569996E+01	Apriori clock (usec)	-1.7760010E+00	Resid sbdelay (usec)	-6.08361E-01	+/- 4.7E-03
Phase delay (usec)	8.57125204422E+01	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.10924E-06	+/- 3.8E-07
Delay rate (us/s)	2.23075194333E-01	Apriori rate (us/s)	2.23078486704E-01	Resid rate (us/s)	-3.29237E-06	+/- 2.2E-09
Total phase (deg)	157.7	Apriori accel (us/s/s)	4.78408705589E-07	Resid phase (deg)	39.2	+/- 11.8

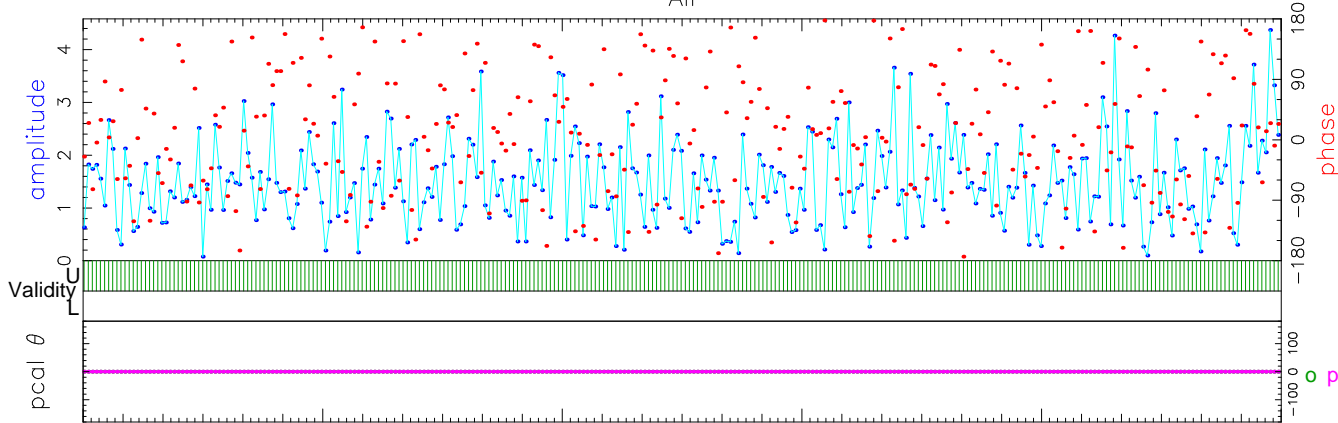
ph/seg (deg)	RMS 93.0	Theor. 100.6	Amplitude Search (2048X8)	1.392 +/- 0.143	1.305	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	65.5	175.6	Interp.	0.000	1.305	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	5.9	Inc. seg. avg.	0.662	1.305	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	10.3	Inc. frq. avg.	1.384	1.305	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	

o: az 189.2 el 64.2 pa 8.2 p: az 213.2 el 63.9 pa 28.5 u,v (fr/asec) -1304.516 368.656 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/op..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/op.W.109.1T5H1A



Fringe quality 8
SNR 9.1
Int time 299.974
Amp 1.528
Phase -137.3
PFD 1.2e-12
Delays (us)
SBD 0.590949
MBD -0.000005
Fringe rate (Hz)
-0.655519
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052013
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
11.3
0.4
1565.4
U/L 586/0
o 0
p 0
o:p 0:0
op 0:0
o 1000
p 1000
o W03UL
p W03UL

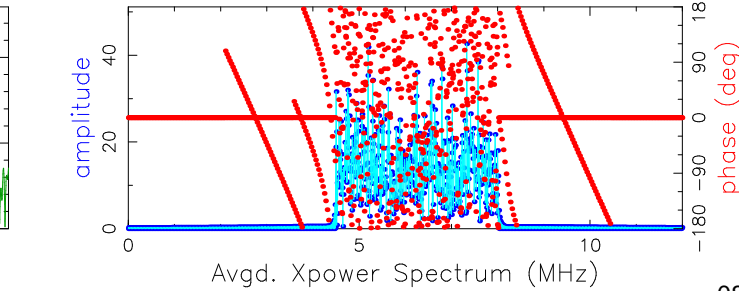
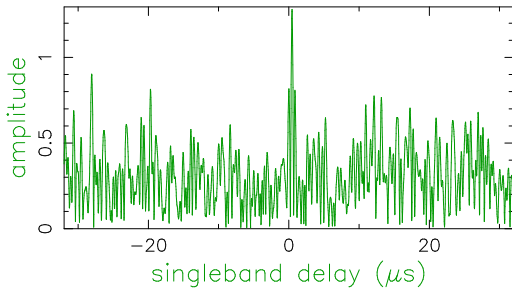
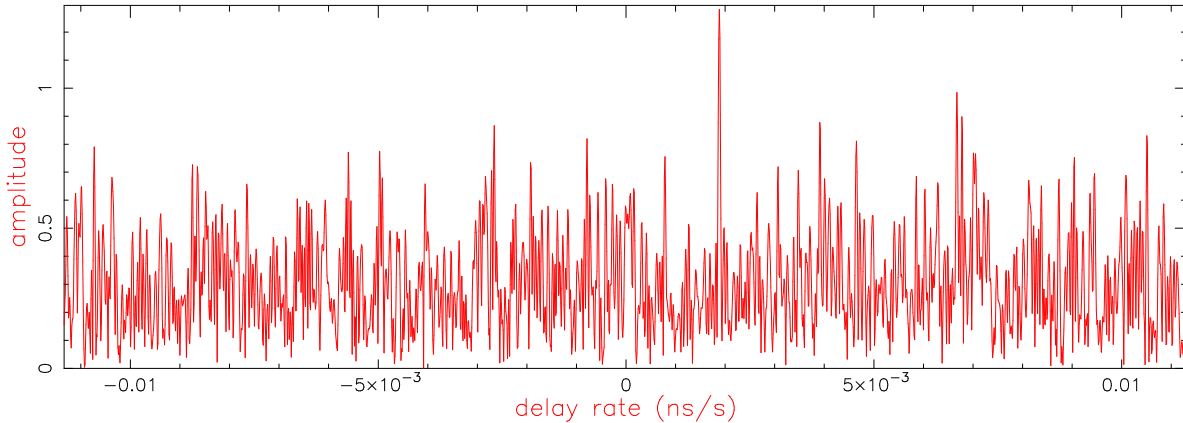
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	8.63034654172E+01	Apriori delay (usec)	8.57125183329E+01	Resid mbdelay (usec)	-4.70581E-06	+/- 5.0E-03
Sband delay (usec)	8.63034676663E+01	Apriori clock (usec)	-1.7760010E+00	Resid sbdelay (usec)	5.90949E-01	+/- 5.0E-03
Phase delay (usec)	8.57125186966E+01	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.63729E-07	+/- 4.0E-07
Delay rate (us/s)	2.23070876776E-01	Apriori rate (us/s)	2.23078486704E-01	Resid rate (us/s)	-7.60993E-06	+/- 2.3E-09
Total phase (deg)	-18.8	Apriori accel (us/s/s)	4.78408705589E-07	Resid phase (deg)	-137.3	+/- 12.5

ph/seg (deg)	88.8	Theor.	107.4	Amplitude	1.528 +/- 0.167	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	67.0	Search (2048X8)	1.229	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.	0.663	Inc. frq. avg.	1.517	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	Inc. frq. avg.	1.517	Sample rate(MSamp/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

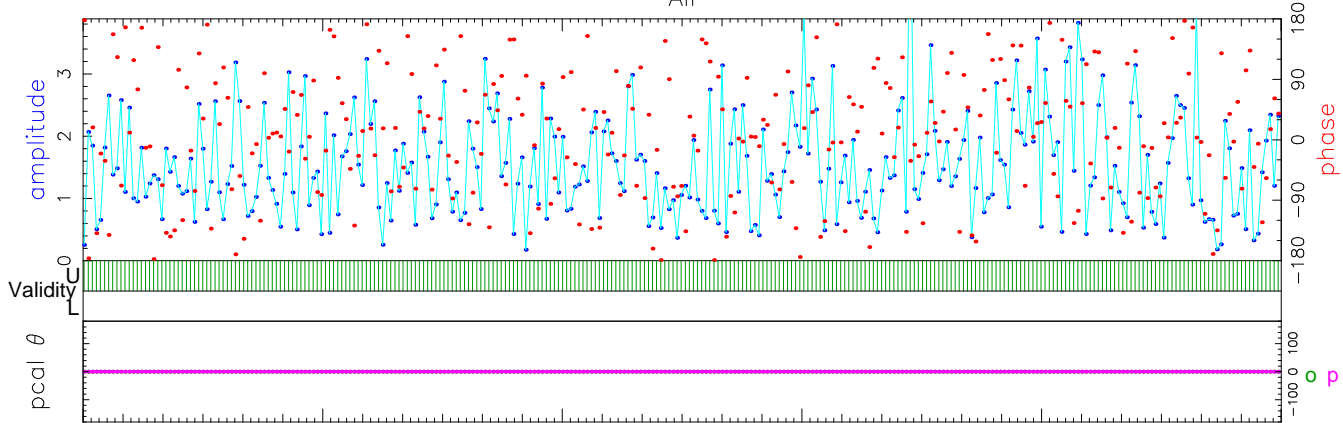
o: az 189.2 el 64.2 pa 8.2 p: az 213.2 el 63.9 pa 28.5 u,v (fr/asec) -1304.516 368.656 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/op..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/op.W.90.1T5H1A

Fringe quality 8



SNR 9.3
Int time 299.974
Amp 1.295
Phase -280.7
PFD 3.0e-13
Delays (us)
SBD 0.458028
MBD 0.000007
Fringe rate (Hz)
0.162203
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211d
Exper # 16383
Yr/day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052013
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



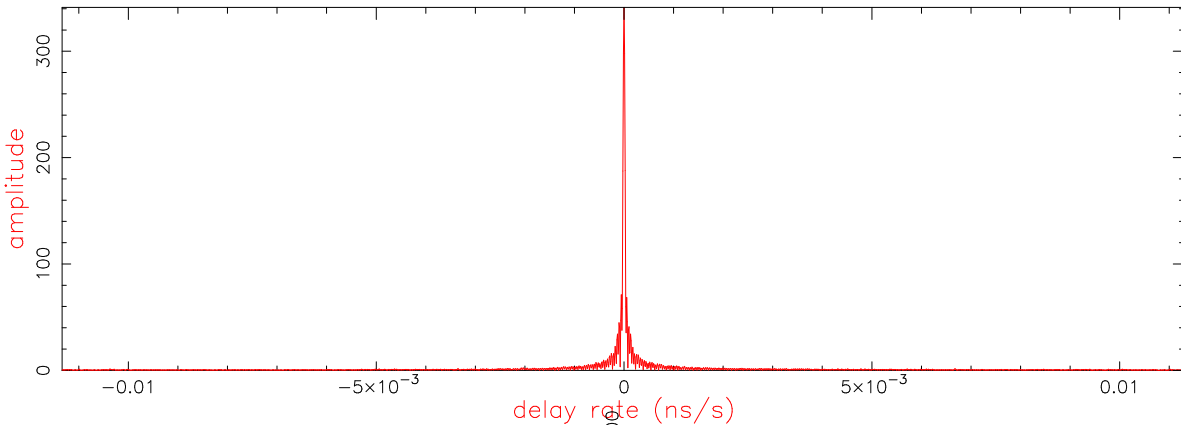
86227.00
24.6
0.4
1559.0
U/L 586/0
o 0
p 0
o:p 0:0
o:p 0:0
o 1000
p 1000
o W03UR
p W03UR

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

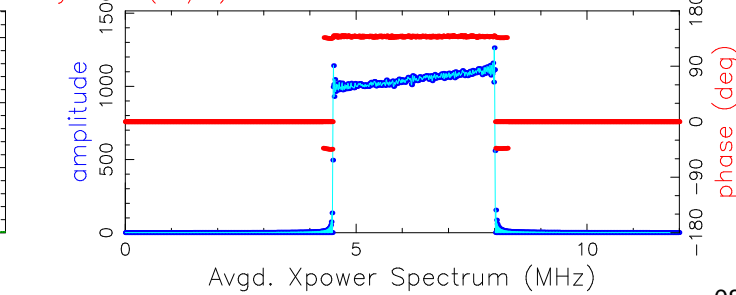
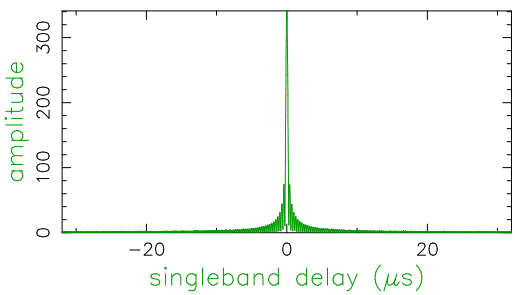
Group delay (usec)(sbd)	8.61705487626E+01	Apriori delay (usec)	8.57125183329E+01	Resid mbdelay (usec)	6.84073E-06	+/-	4.9E-03
Sband delay (usec)	8.61705463329E+01	Apriori clock (usec)	-1.7760010E+00	Resid sbdelay (usec)	4.58028E-01	+/-	4.9E-03
Phase delay (usec)	8.57125191261E+01	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.93216E-07	+/-	4.0E-07
Delay rate (us/s)	2.23080369715E-01	Apriori rate (us/s)	2.23078486704E-01	Resid rate (us/s)	1.88301E-06	+/-	2.3E-09
Total phase (deg)	-162.2	Apriori accel (us/s/s)	4.78408705589E-07	Resid phase (deg)	-280.7	+/-	12.3

ph/seg (deg)	RMS 91.5	Theor. 105.6	Amplitude Search (2048X8)	1.295 +/- 0.139	1.269	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.1	184.3	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.	0.583	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	10.8	Inc. frq. avg.	1.288	0.000	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
			o: az 189.2 el 64.2 pa 8.2		p: az 213.2 el 63.9 pa 28.5		dr window (ns/s) -0.011 0.011
			u,v (fr/asec) -1304.516 368.656				ion window (TEC) 0.00 0.00

Fringe quality 5

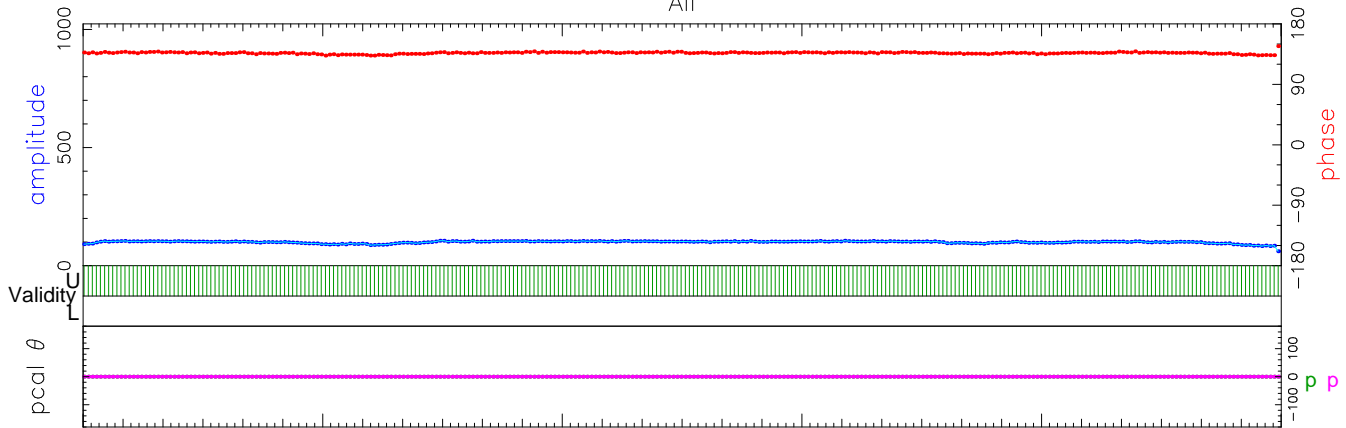


SNR 2474.4
Int time 299.974
Amp 341.249
Phase 160.6
PFD 0.0e+00
Delays (us)
SBD -0.000769
MBD -0.000006
Fringe rate (Hz)
-0.000009
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052014
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
136.6
100.0
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 W03UR

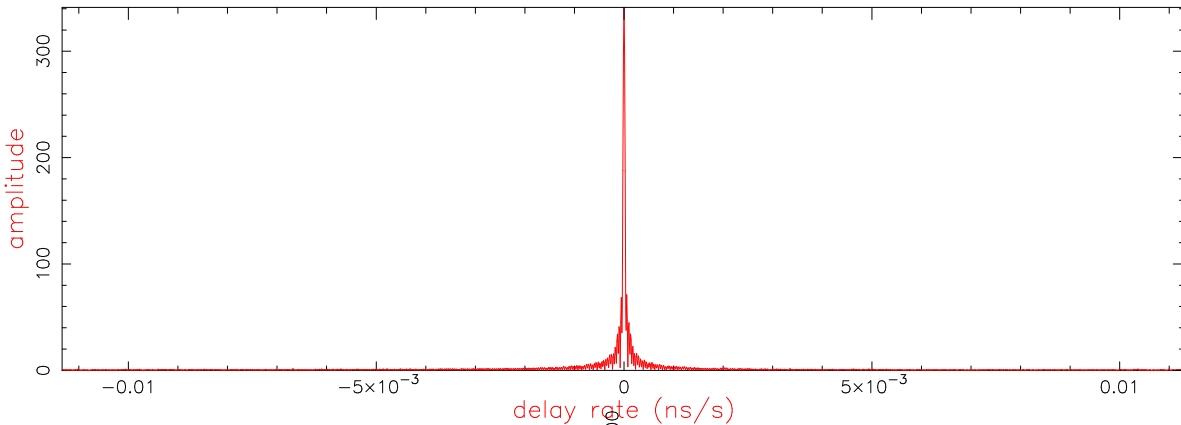
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
ManI PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	-7.71374163545E-04	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-5.95266E-06	+/-	1.9E-05
Sband delay (usec)	-7.69333333333E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-7.69333E-04	+/-	1.9E-05
Phase delay (usec)	4.40526987473E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.40527E-06	+/-	1.5E-09
Delay rate (us/s)	-1.06992200557E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-1.06992E-10	+/-	8.6E-12
Total phase (deg)	160.6	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	160.6	+/-	0.0

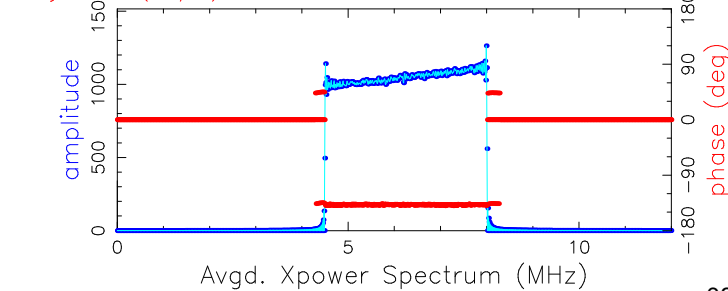
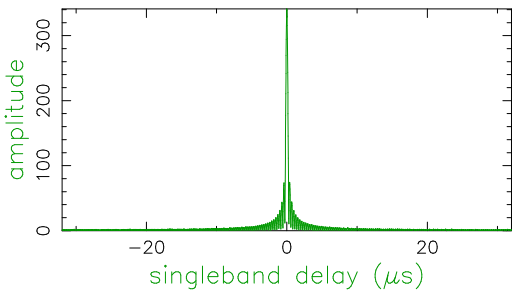
ph/seg (deg)	1.4	Theor.	0.4	Amplitude	341.249 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.7	Search (2048X8)	341.240	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	99.998	Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	341.245	Data rate(Mb/s): 48	ion window (TEC) 0.00 0.00

p: az 213.2 el 63.9 pa 28.5 p: az 213.2 el 63.9 pa 28.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/pp..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/pp.W.102.1T5H1A

Fringe quality 5

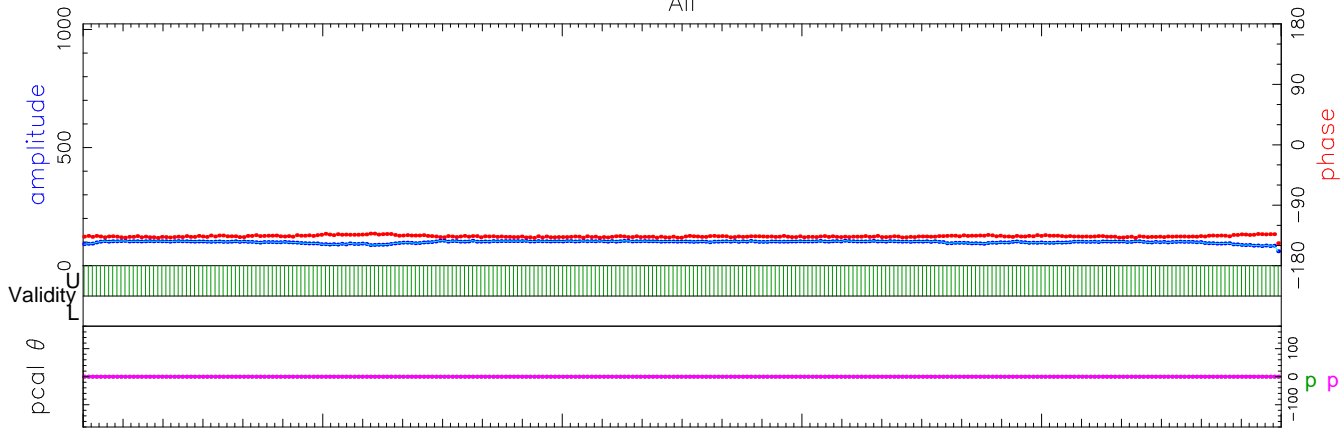


SNR 2474.4
Int time 299.974
Amp 341.249
Phase -160.6
PFD 0.0e+00
Delays (us)
SBD 0.000769
MBD -0.000006
Fringe rate (Hz)
0.000009
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052015
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



86227.00
-136.2
100.0
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 W03UL

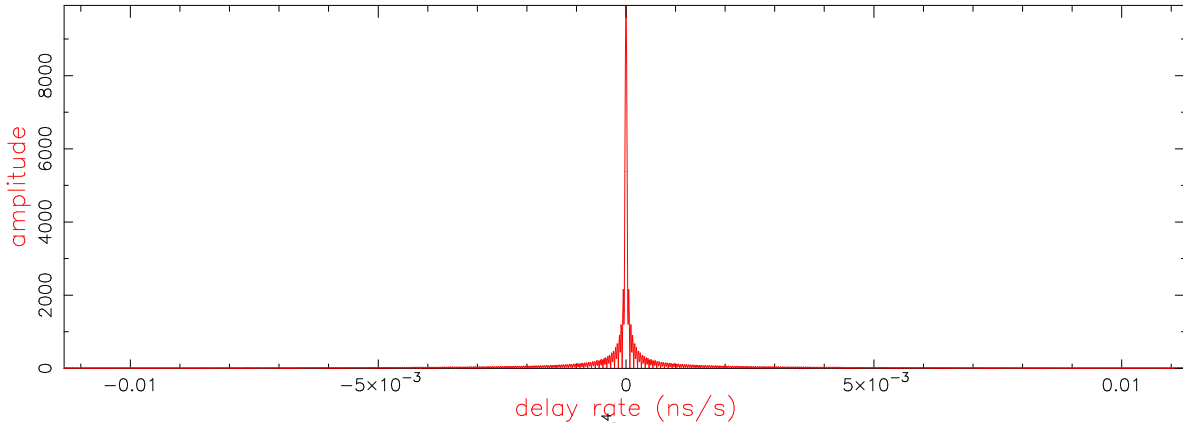
Freq (MHz)
Phase
Ampl.
Sbd box
APs used
PC freqs
PC freqs
PC phase
Manl PC
PC amp
Chan ids
Chan ids

Group delay (usec)(sbd)	7.71177658970E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-5.84114E-06	+/-	1.9E-05
Sband delay (usec)	7.69333333333E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	7.69333E-04	+/-	1.9E-05
Phase delay (usec)	-4.39253684257E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.39254E-06	+/-	1.5E-09
Delay rate (us/s)	1.06992200557E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	1.06992E-10	+/-	8.6E-12
Total phase (deg)	-160.6	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-160.6	+/-	0.0

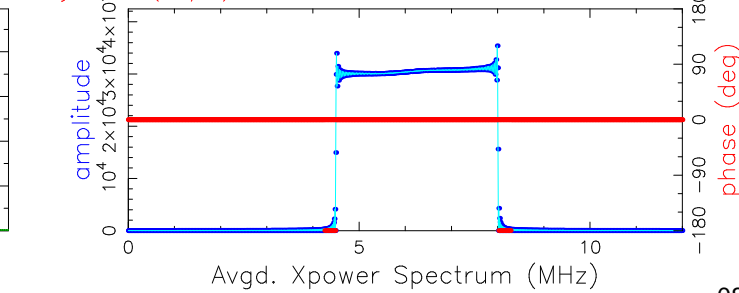
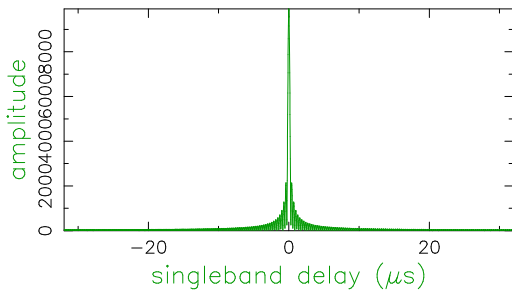
ph/seg (deg)	1.4	Theor.	0.4	Amplitude	341.249 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7		0.7	Search (2048X8)	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0		0.0	Interp.	99.998	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7		0.0	Inc. seg. avg.	341.245	Sample rate(MISamp/s): 24	mb window (us) -0.000 0.000
				Inc. frq. avg.		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

p: az 213.2 el 63.9 pa 28.5 p: az 213.2 el 63.9 pa 28.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/pp..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/pp.W.107.1T5H1A

Fringe quality 5

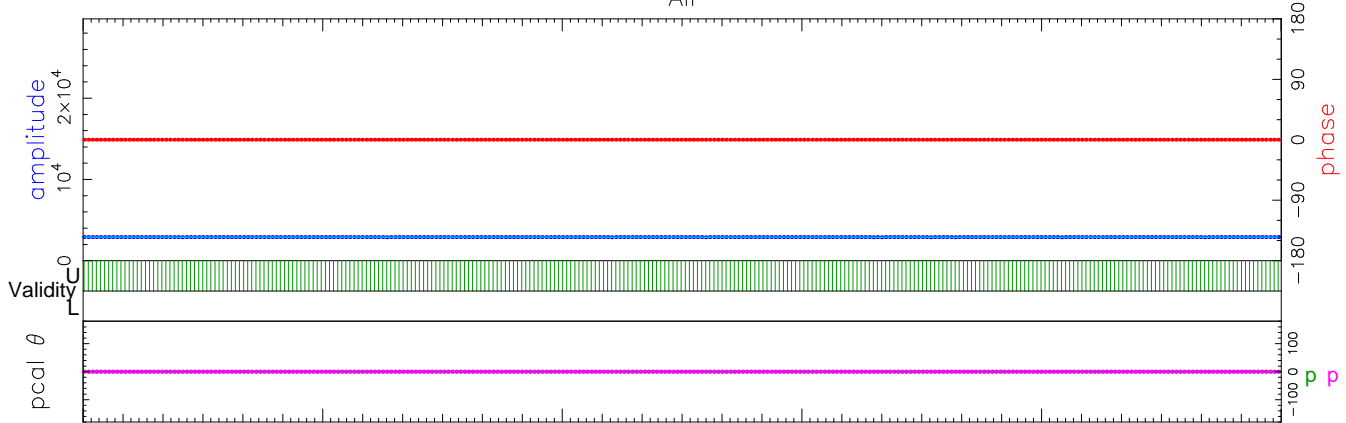


SNR 71939.5
Int time 299.974
Amp 9921.373
Phase -0.2
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD -0.000006
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211d
Exper # 16383
Yr:day 2021:117
Start 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052012
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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



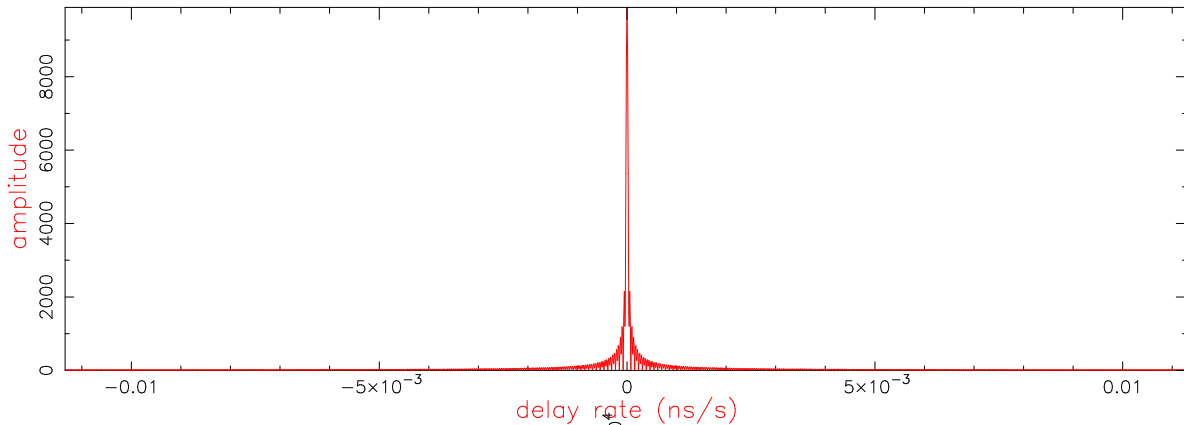
86227.00
0.2
2906.7
1537.0
U/L 586/0
p 0
p 0
p:p 0:0
p:p 0:0
p 1000
p 1000
p W03UL
p W03UL

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

Group delay (usec)(sbd)	5.67339696383E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-5.92390E-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)	6.39566478823E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.39566E-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	+/-	3.0E-13
Total phase (deg)	-0.2	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.2	+/-	0.0

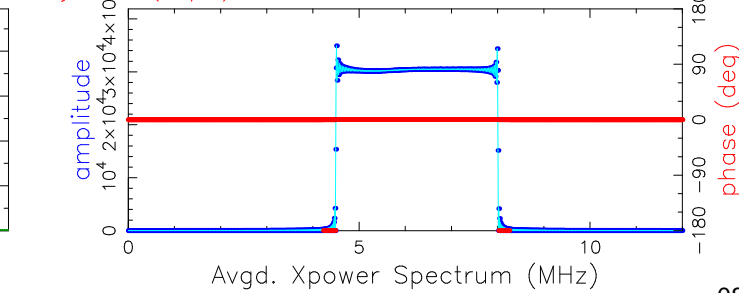
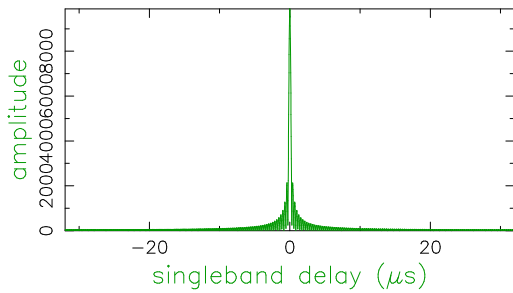
ph/seg (deg)	RMS 0.0	Theor. 0.0	Amplitude Search (2048X8)	9921.373	9921.373 +/- 0.138	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	70.7	0.0	Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	0.0	Inc. seg. avg.	2906.652		Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	70.7	0.0	Inc. frq. avg.	9921.373		Sample rate(MISamp/s): 24	dr window (ns/s) -0.011 0.011
p: az 213.2 el 63.9 pa 28.5		p: az 213.2 el 63.9 pa 28.5		u,v (fr/asec) 0.000 0.000		Data rate(Mb/s): 48	nlags: 1536 t_cohere infinite
Control file: cf_1234_gmva_line		Input file: /Exps/c211d/v1/LINES1/1234/No0020/pp..1T5H1A		Output file: /Exps/c211d/v1/LINES1/1234/No0020/pp.W.86.1T5H1A		ion window (TEC) 0.00 0.00	

simultaneous interpolator



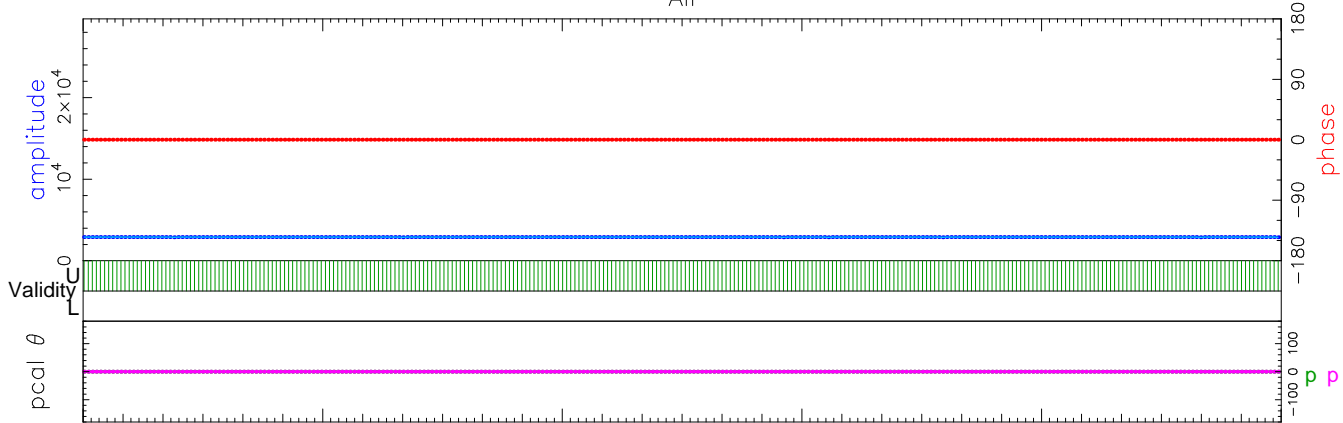
Fringe quality 5

SNR 71709.1
Int time 299.974
Amp 9889.600
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 020700.00
Stop 021200.03
FRT 020930.00
Corr/FF/build
2021:228:044103
2021:228:052013
2021:057:122453
RA & Dec (J2000)
08h16m33.828377s
+11°43'34.222195"

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
2897.3
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)	4.70850197734E-06	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-6.88879E-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)	7.43740188764E-09	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.43740E-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)	-0.1	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.1	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	9889.601 +/- 0.138	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	70.7		0.0	Search (2048X8)	9889.600	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.	2897.344	Sample rate(MISamp/s):	24	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	9889.601	Data rate(Mb/s):	48	ion window (TEC)	0.00 0.00	

p: az 213.2 el 63.9 pa 28.5 p: az 213.2 el 63.9 pa 28.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva_line Input file: /Exps/c211d/v1/LINES1/1234/No0020/pp..1T5H1A Output file: /Exps/c211d/v1/LINES1/1234/No0020/pp.W.92.1T5H1A