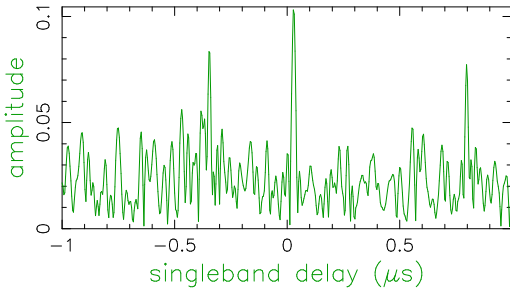
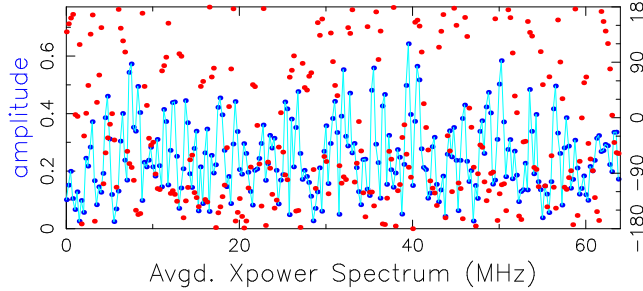


Fringe quality 0

SNR 5.9
 Int time 427.094
 Amp 0.105
 Phase 135.5
 PFD 6.3e-01
 Delays (us)
 SBD 0.028818
 MBD 0.005359
 Fringe rate (Hz)
 0.083867
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

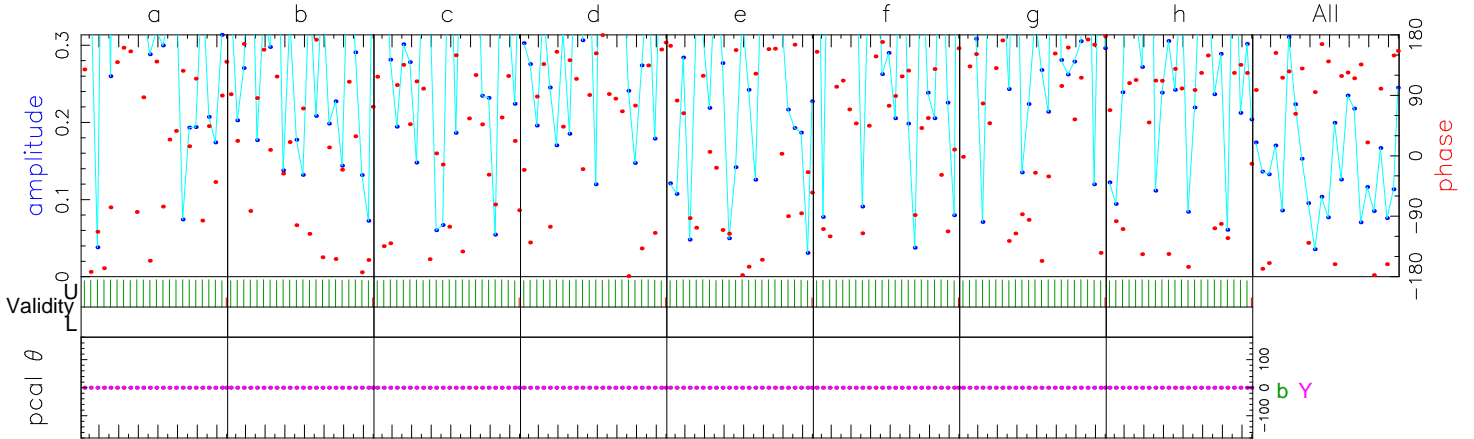


delay rate (ns/s)



Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210518
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec

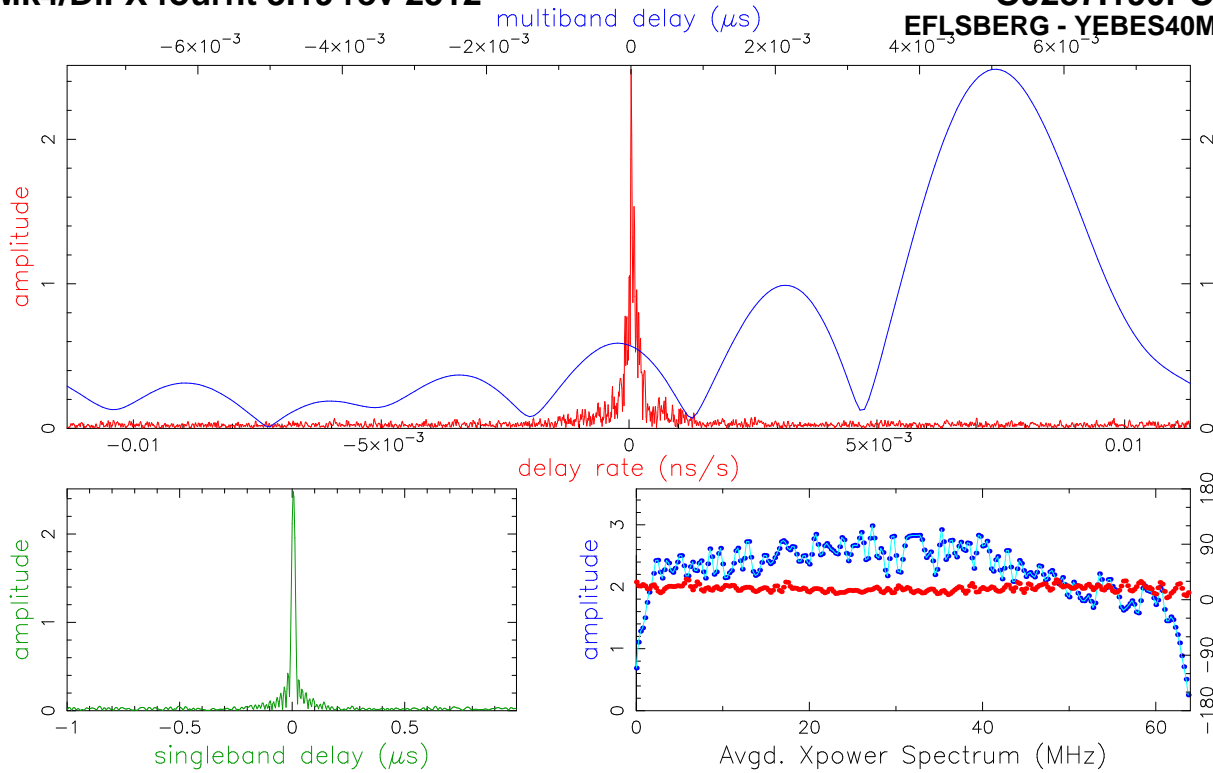


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.15633367742E+04	Apriori delay (usec)	-1.15633733835E+04	Resid mbdelay (usec)	5.35926E-03	+/-	1.8E-04
Sband delay (usec)	-1.15633445655E+04	Apriori clock (usec)	-1.3386926E+01	Resid sbdelay (usec)	2.88180E-02	+/-	1.5E-03
Phase delay (usec)	-1.15633733791E+04	Apriori clockrate (us/s)	-2.6200000E-07	Resid phdelay (usec)	4.37024E-06	+/-	6.3E-07
Delay rate (us/s)	1.53399280986E+00	Apriori rate (us/s)	1.53399183625E+00	Resid rate (us/s)	9.73613E-07	+/-	2.5E-09
Total phase (deg)	45.0	Apriori accel (us/s/s)	6.50840296930E-05	Resid phase (deg)	135.5	+/-	19.5

ph/seg (deg)	48.5	Theor.	46.7	Amplitude	0.105 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	73.0		81.4	Search (2048X32)	0.100	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	31.3		27.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	39.3		48.0	Inc. seg. avg.	0.107	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.101	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 78.2 el 16.5 pa -44.1 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -9243.041 2705.533 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bY..190POF Output file: /Exps/c201c/v1/1234/No0032/bY.W.18.190POF

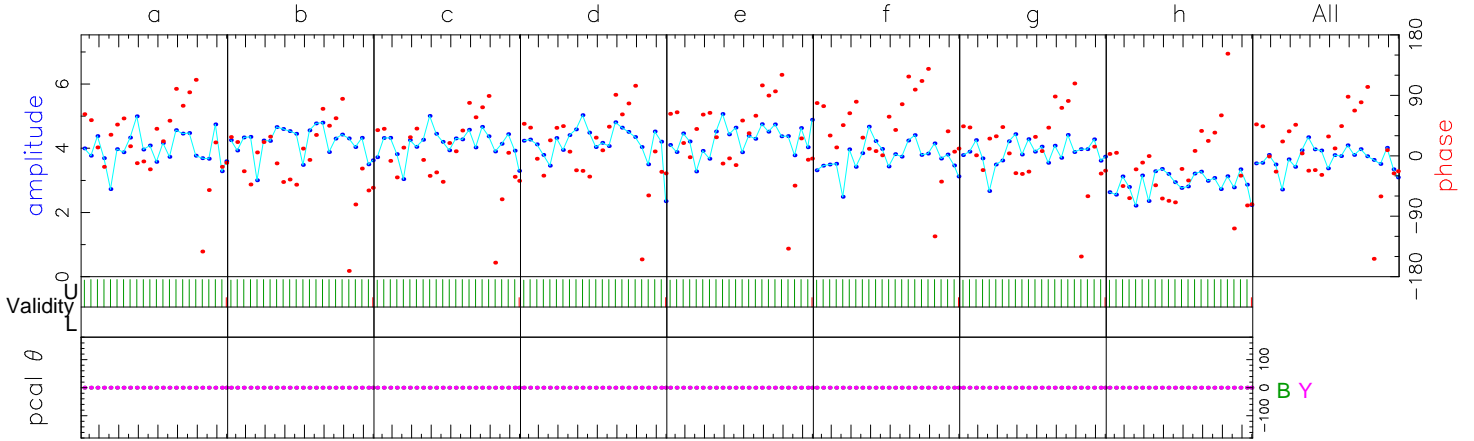


Fringe quality 3

SNR 143.1
Int time 434.145
Amp 2.511
Phase 19.6
PFD 0.0e+00
Delays (us)
SBD 0.005301
MBD 0.005096
Fringe rate (Hz) 0.004278
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210519
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	30.8	1.1	12.5	19.9	38.7	49.0	18.1	-24.3		19.6
	2.7	2.9	2.9	2.8	2.8	2.5	2.6	2.0	Ampl.	2.6
	258.3	258.1	258.4	258.5	258.7	258.1	258.0	256.5	Sbd box	258.4
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

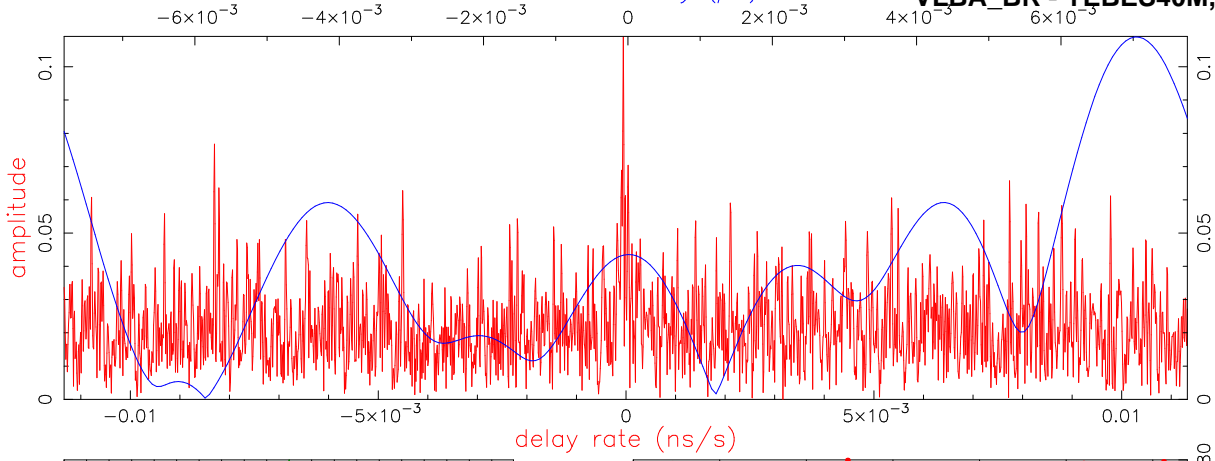
Group delay (usec)(sbd)	-2.53455585378E+03	Apriori delay (usec)	-2.53456095025E+03	Resid mbdelay (usec)	5.09647E-03	+/-	7.6E-06
Sband delay (usec)	-2.53455564900E+03	Apriori clock (usec)	1.0641727E+00	Resid sbdelay (usec)	5.30125E-03	+/-	6.0E-05
Phase delay (usec)	-2.53456094962E+03	Apriori clockrate (us/s)	-4.2000000E-07	Resid phdelay (usec)	6.30657E-07	+/-	2.6E-08
Delay rate (us/s)	-3.99318454545E-02	Apriori rate (us/s)	-3.99318951215E-02	Resid rate (us/s)	4.96671E-08	+/-	1.0E-10
Total phase (deg)	-72.2	Apriori accel (us/s/s)	1.82060644109E-05	Resid phase (deg)	19.6	+/-	0.8

ph/seg (deg)	55.1	RMS	2.511 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	48.8	Theor.	2.320	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	24.7	Search (2048X32)	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	12.6	Inc. seg. avg.	3.687	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	2.637	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

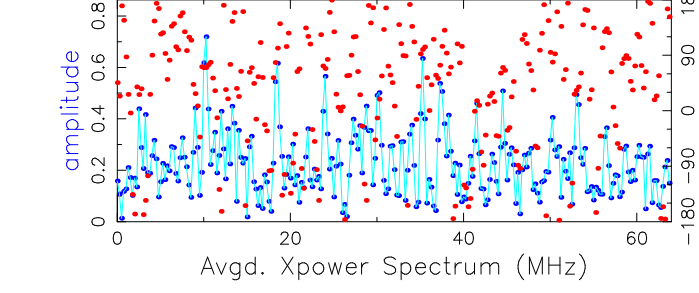
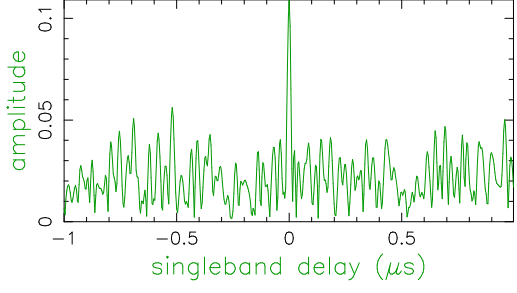
B: az 239.9 el 46.7 pa 35.9 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) 272.087 1537.469 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/BY..190POF Output file: /Exps/c201c/v1/1234/No0032/BY.W.21.190POF

multiband delay (μ s)

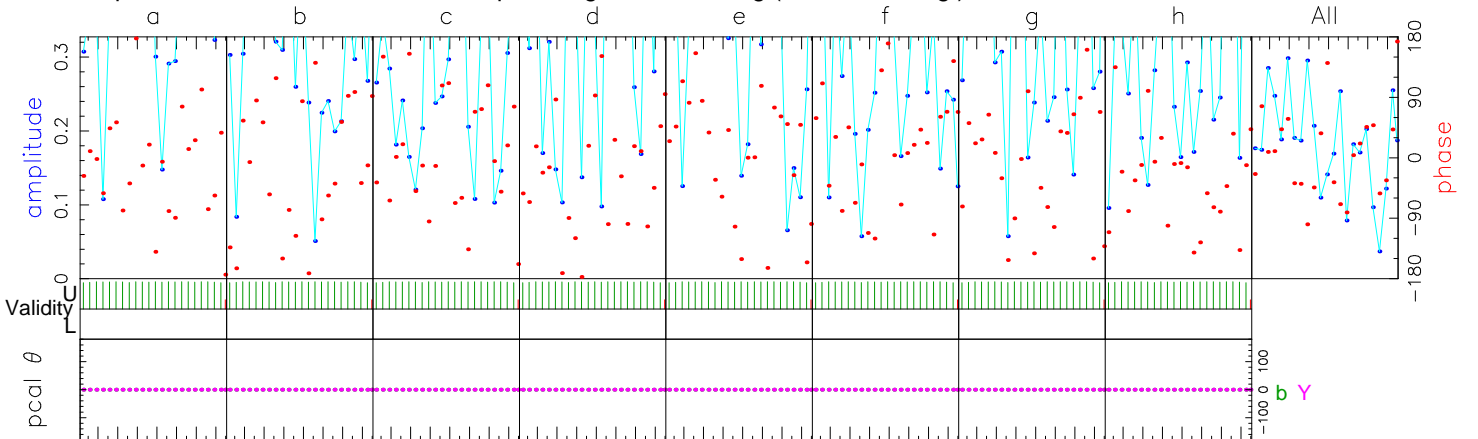


Fringe quality 0
 SNR 6.2
 Int time 427.094
 Amp 0.109
 Phase 0.0
 PFD 1.7e-01
 Delays (us)
 SBD -0.000458
 MBD 0.007036
 Fringe rate (Hz)
 -0.004520
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210522
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"



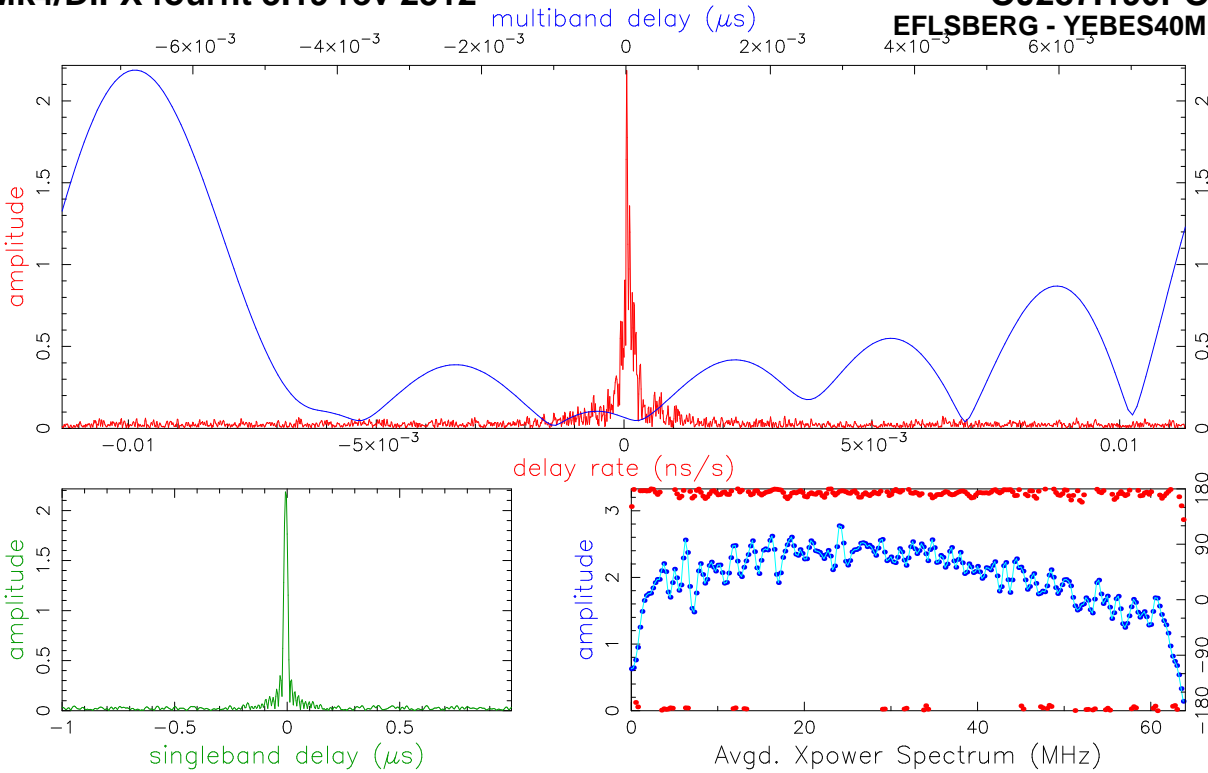
Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.15633663470E+04				-1.15633733835E+04				7.03643E-03	+/- 1.8E-04
Sband delay (usec)	-1.15633738417E+04				-1.3386926E+01				-4.58250E-04	+/- 1.4E-03
Phase delay (usec)	-1.15633733835E+04				-2.6200000E-07				1.00899E-09	+/- 6.0E-07
Delay rate (us/s)	1.53399178377E+00				1.53399183625E+00				-5.24758E-08	+/- 2.4E-09
Total phase (deg)			-90.5		6.50840296930E-05				0.0	+/- 18.6
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 60.4 44.5 Search (2048X32) 0.104 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 93.4 77.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 33.6 26.3 Inc. seg. avg. 0.142 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 43.1 45.9 Inc. frq. avg. 0.113 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 78.2 el 16.5 pa -44.1 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -9243.041 2705.533 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bY..190POF Output file: /Exps/c201c/v1/1234/No0032/bY.W.34.190POF

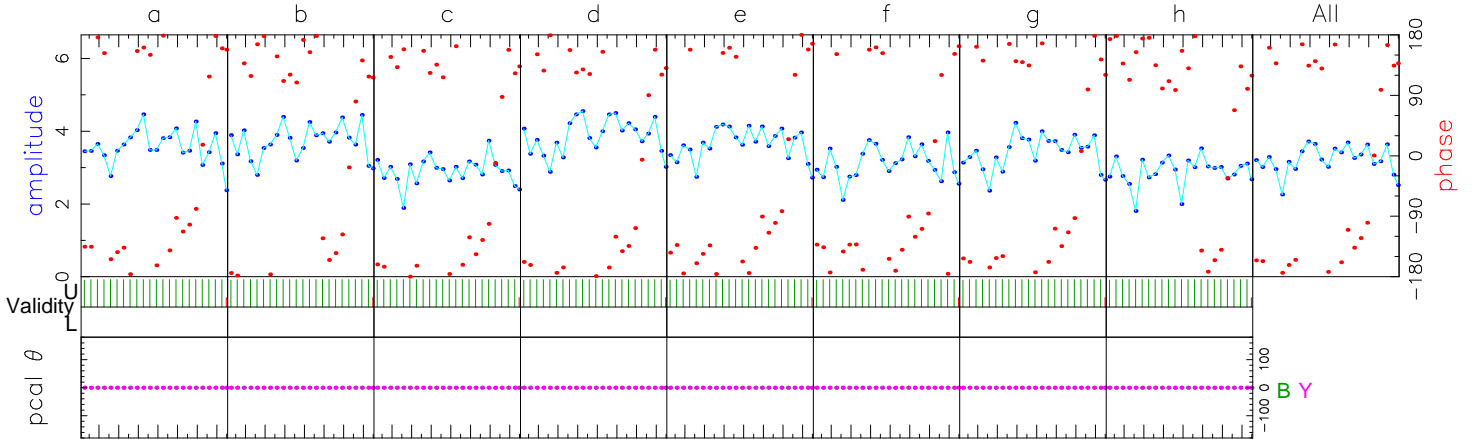


Fringe quality 4

SNR 126.3
Int time 434.145
Amp 2.217
Phase 179.7
PFD 0.0e+00
Delays (us)
SBD -0.006235
MBD -0.006756
Fringe rate (Hz) 0.004331
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210525
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

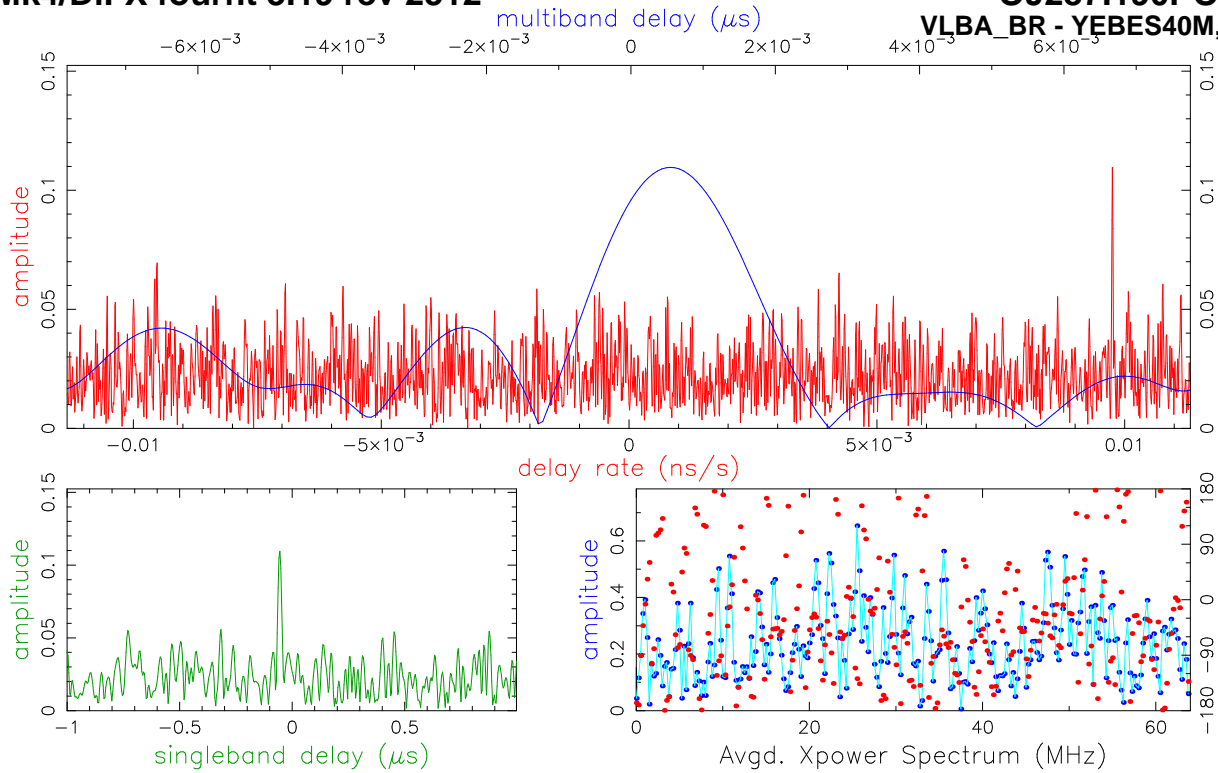
Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-161.8	160.8	171.2	170.7	-162.0	-159.0	-177.7	150.1	Phase	179.7
	2.4	2.5	1.9	2.6	2.5	2.2	2.3	2.0	Ampl.	2.3
	255.2	254.8	255.7	255.3	255.5	255.3	255.2	254.2	Sbd box	255.4
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.53456770662E+03		Apriori delay (usec)		-2.53456095025E+03		Resid mbdelay (usec)		-6.75637E-03	+/- 8.6E-06
Sband delay (usec)	-2.53456718575E+03		Apriori clock (usec)		1.0641727E+00		Resid sbdelay (usec)		-6.23550E-03	+/- 6.8E-05
Phase delay (usec)	-2.53456094446E+03		Apriori clockrate (us/s)		-4.2000000E-07		Resid phdelay (usec)		5.79487E-06	+/- 2.9E-08
Delay rate (us/s)	-3.99318448409E-02		Apriori rate (us/s)		-3.99318951215E-02		Resid rate (us/s)		5.02807E-08	+/- 1.2E-10
Total phase (deg)			Apriori accel (us/s/s)		1.82060644109E-05		Resid phase (deg)		179.7	+/- 0.9

RMS Theor. Amplitude 2.217 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 55.9 2.2 Search (2048X32) 2.083 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 48.8 3.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 20.5 1.3 Inc. seg. avg. 3.238 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 11.6 2.2 Inc. frq. avg. 2.291 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 239.9 el 46.7 pa 35.9 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) 272.087 1537.469 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/BY..190POF Output file: /Exps/c201c/v1/1234/No0032/BY.W.47.190POF

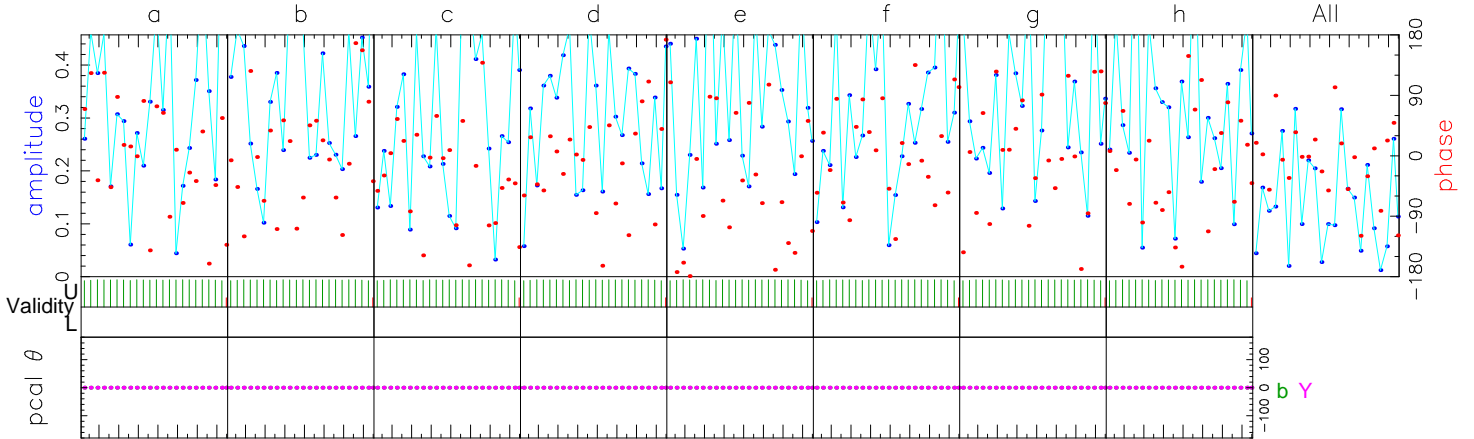


Fringe quality 0

SNR 6.2
 Int time 427.094
 Amp 0.152
 Phase 6.6
 PFD 1.3e-01
 Delays (us)
 SBD -0.055577
 MBD 0.000511
 Fringe rate (Hz)
 0.841262
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

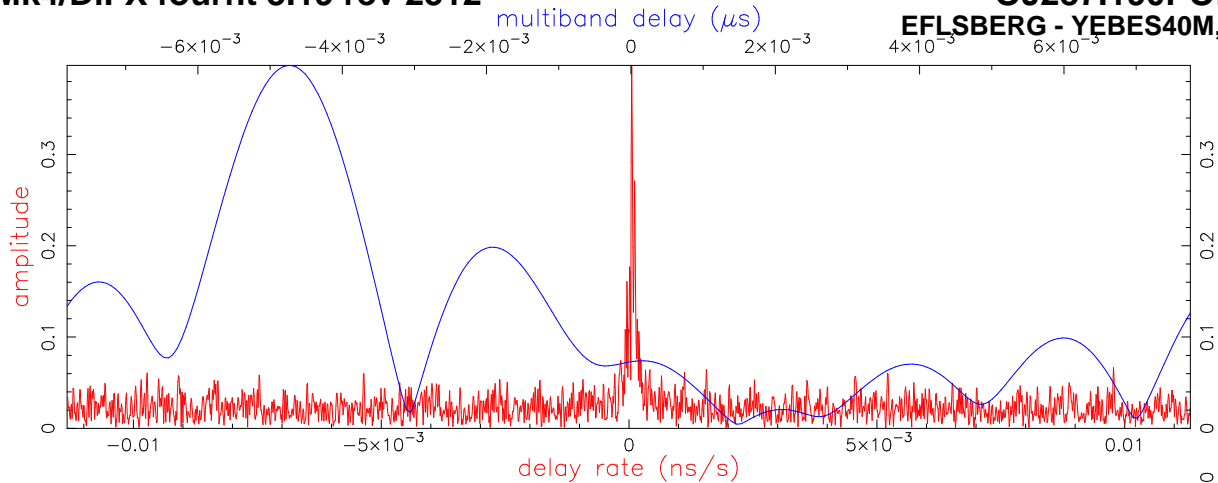
Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210527
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
34.8	-23.9	0.2	-2.7	19.1	21.8	8.6	4.4	4.4	Phase	6.6
0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	Ampl.	0.1
252.9	83.8	220.2	351.1	368.2	301.3	165.6	192.0	192.0	Sbd box	242.8
U/L 849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y 1000	1000	1000	1000	1000	1000	1000	1000	1000		
b W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
Y W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.15634353729E+04		Apriori delay (usec)	-1.15633733835E+04		Resid mbdelay (usec)	5.10606E-04	+/-	1.7E-04	
Sband delay (usec)	-1.15634289607E+04		Apriori clock (usec)	-1.3386926E+01		Resid sbdelay (usec)	-5.55772E-02	+/-	1.4E-03	
Phase delay (usec)	-1.15633733832E+04		Apriori clockrate (us/s)	-2.6200000E-07		Resid phdelay (usec)	2.13810E-07	+/-	5.9E-07	
Delay rate (us/s)	1.53400160246E+00		Apriori rate (us/s)	1.53399183625E+00		Resid rate (us/s)	9.76622E-06	+/-	2.4E-09	
Total phase (deg)		-83.9	Apriori accel (us/s/s)	6.50840296930E-05		Resid phase (deg)	6.6	+/-	18.4	

ph/seg (deg) 53.0 44.2 Search (2048X32) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 88.6 77.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 19.4 26.1 Inc. seg. avg. 0.152 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 31.2 45.5 Inc. frq. avg. 0.143 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 78.2 el 16.5 pa -44.1 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -9243.041 2705.533 ion window (TEC) 0.00 0.00
 simultaneous interpolator



Fringe quality 9

SNR 22.7

Int time 434.145

Amp 0.398

Phase -73.5

PFD 0.0e+00

Delays (us)

SBD -0.004026

MBD -0.004736

Fringe rate (Hz) 0.004349

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.512

Exp. c201c

Exper # 16383

Yr:day 2020:117

Start 204505.12

Stop 205219.80

FRT 204840.00

Corr/FF/build

2020:202:063214

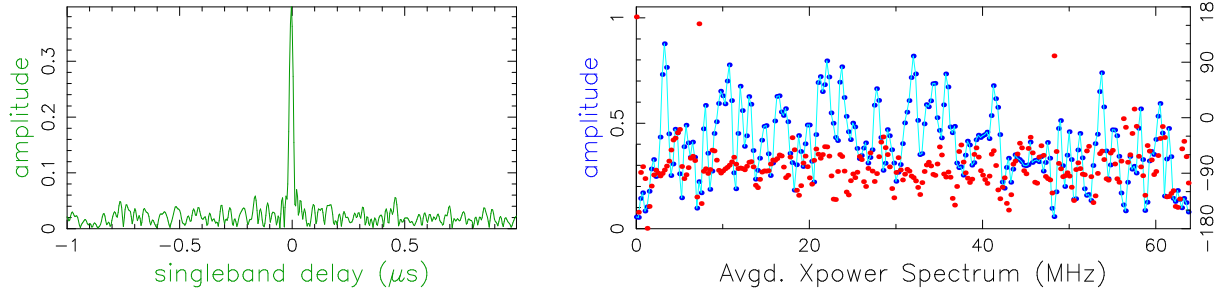
2020:202:210529

2020:014:135814

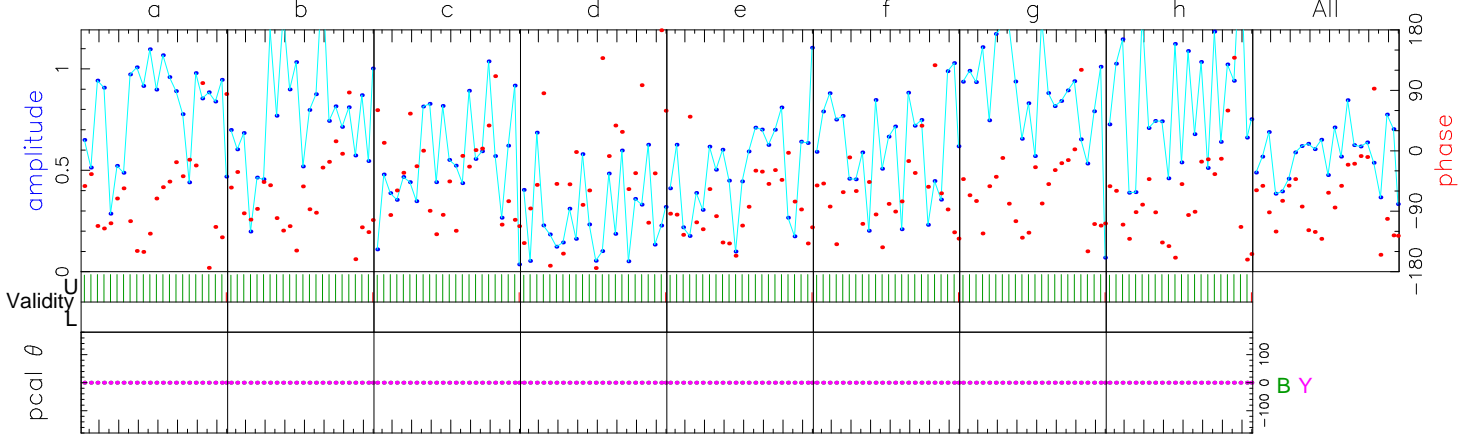
RA & Dec (J2000)

08h54m48.874928s

+20°06'30.640850"



Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-88.2	-75.9	-40.2	-50.5	-79.4	-74.6	-65.8	-86.1	Phase	-73.5
	0.5	0.5	0.3	0.1	0.4	0.4	0.6	0.5	Ampl.	0.4
	257.1	255.3	256.6	262.8	256.1	255.9	255.7	255.1	Sbd box	256.0
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.53456568647E+03		Apriori delay (usec)		-2.53456095025E+03		Resid mbdelay (usec)		-4.73621E-03	+/- 4.8E-05
Sband delay (usec)	-2.53456497625E+03		Apriori clock (usec)		1.0641727E+00		Resid sbdelay (usec)		-4.02600E-03	+/- 3.8E-04
Phase delay (usec)	-2.53456095262E+03		Apriori clockrate (us/s)		-4.2000000E-07		Resid phdelay (usec)		-2.36960E-06	+/- 1.6E-07
Delay rate (us/s)	-3.99318446311E-02		Apriori rate (us/s)		-3.99318951215E-02		Resid rate (us/s)		5.04904E-08	+/- 6.5E-10
Total phase (deg)			Apriori accel (us/s/s)		1.82060644109E-05		Resid phase (deg)		-73.5	+/- 5.1

RMS Theor. Amplitude 0.398 +/- 0.018

ph/seg (deg) 54.3 12.1 Search (2048X32) 0.375

amp/seg (%) 56.4 21.2 Interp. 0.000

ph/frq (deg) 18.8 7.2 Inc. seg. avg. 0.572

amp/frq (%) 35.8 12.5 Inc. frq. avg. 0.406

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

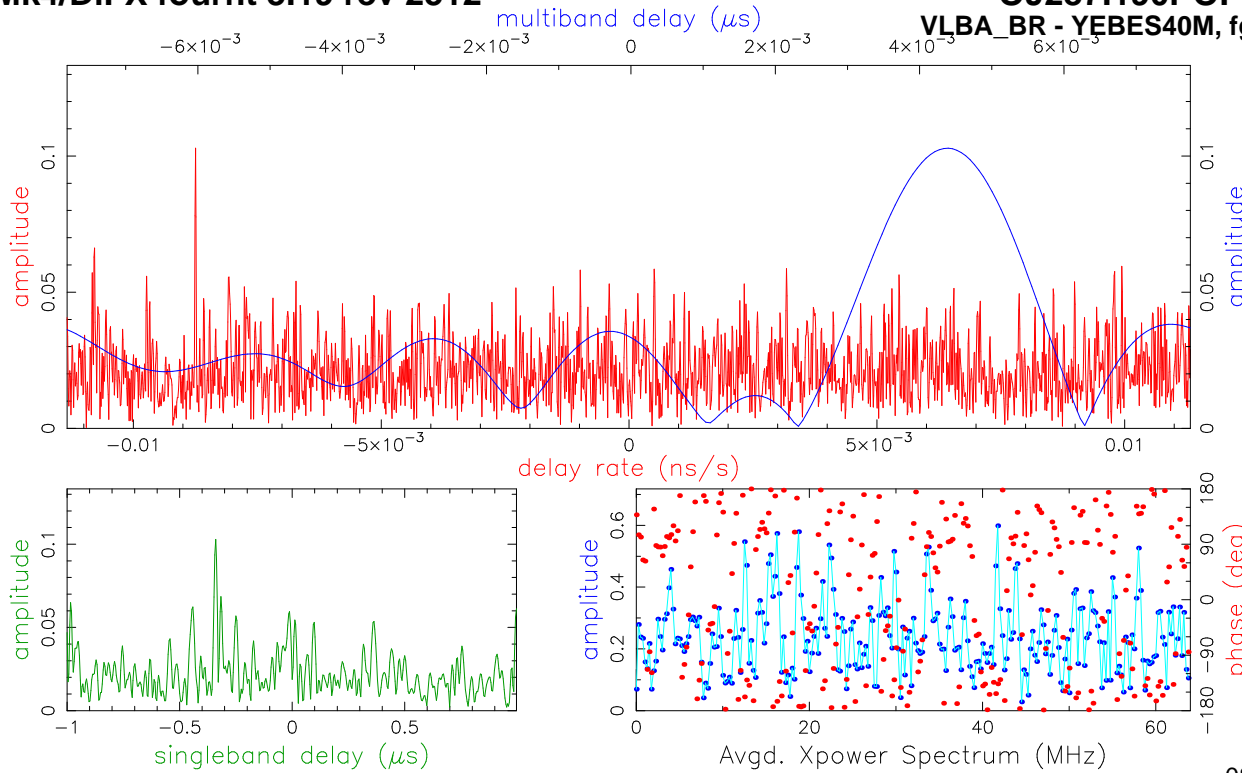
Pcal rate: 0.000E+00, 0.000E+00 (us/s)

Bits/sample: 2x2 SampCntNorm: enabled sb window (us) -1.000 1.000

Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011

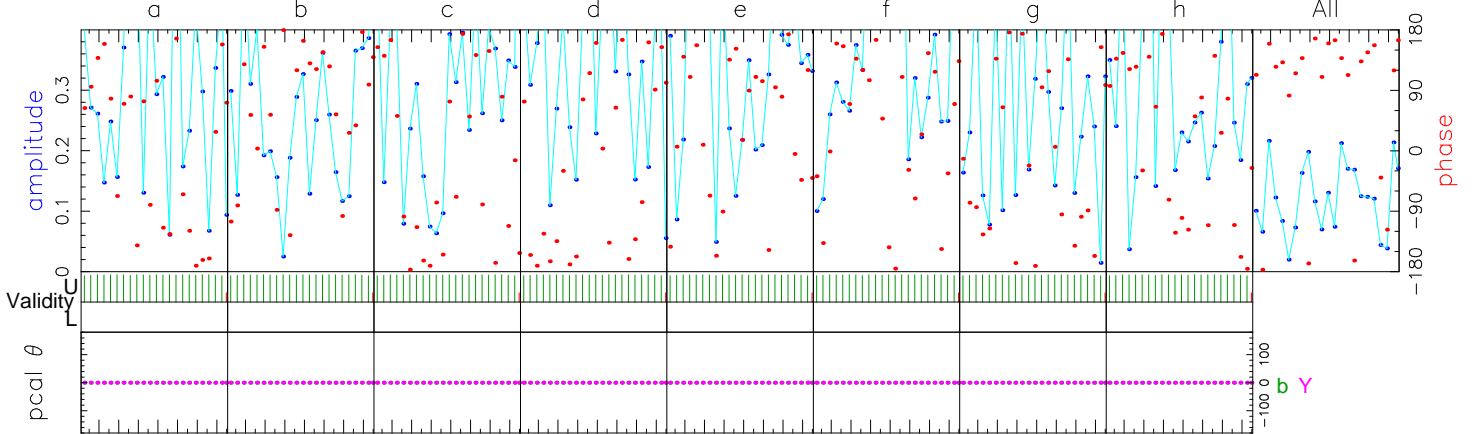
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 239.9 el 46.7 pa 35.9 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) 272.087 1537.469 simultaneous interpolator



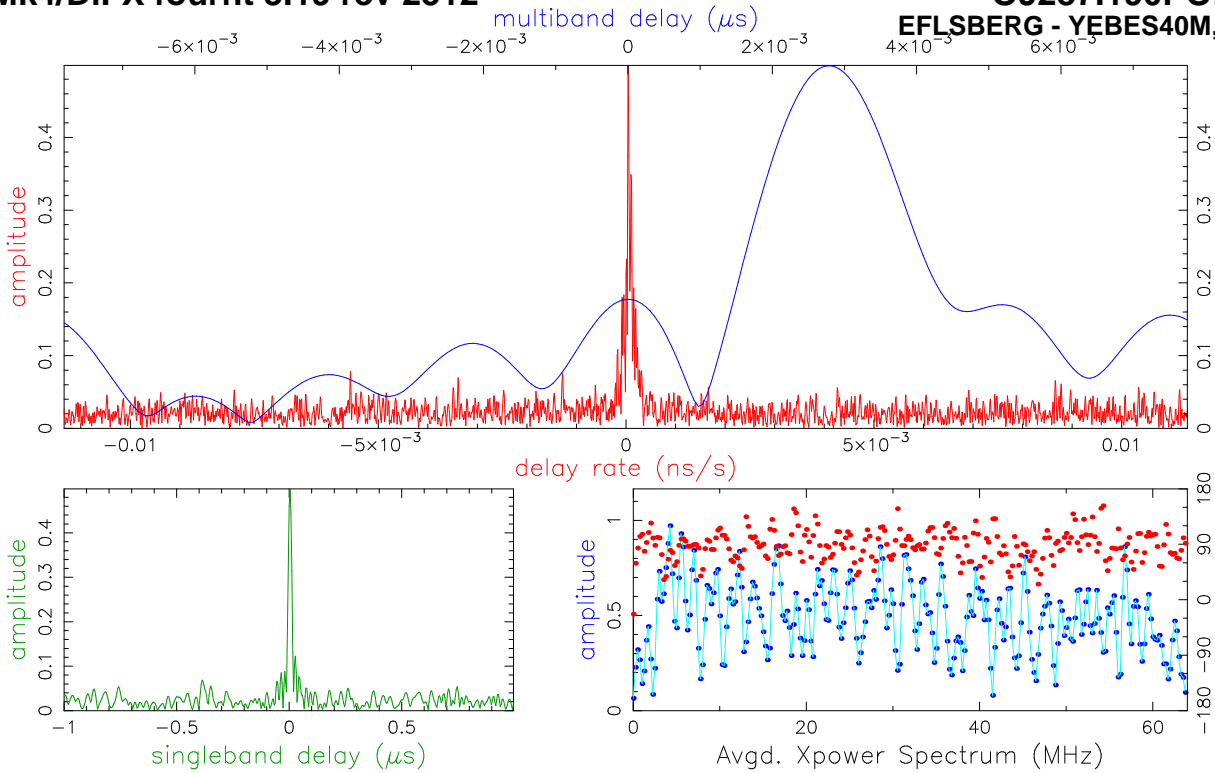
Fringe quality 0
SNR 5.8
Int time 427.094
Amp 0.133
Phase 147.6
PFD 7.8e-01
Delays (us)
SBD -0.340055
MBD 0.004376
Fringe rate (Hz)
-0.754214
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210531
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



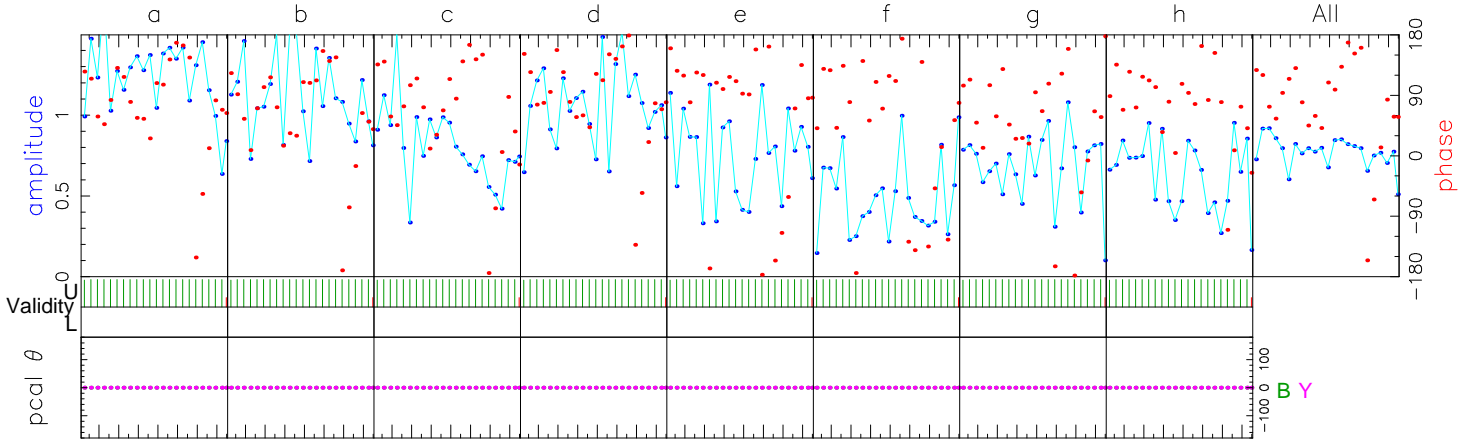
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.15637127578E+04									
Sband delay (usec)	-1.15637134382E+04									
Phase delay (usec)	-1.15633733787E+04									
Delay rate (us/s)	1.53398308057E+00									
Total phase (deg)			57.1							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

ph/seg (deg) 50.5 47.2 50.5 47.2 50.5 47.2 50.5 47.2 50.5 47.2
 amp/seg (%) 58.8 82.5 58.8 82.5 58.8 82.5 58.8 82.5 58.8 82.5
 ph/frq (deg) 29.0 27.9 29.0 27.9 29.0 27.9 29.0 27.9 29.0 27.9
 amp/frq (%) 25.1 48.6 25.1 48.6 25.1 48.6 25.1 48.6 25.1 48.6
 b: az 78.2 el 16.5 pa -44.1 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -9243.041 2705.533
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bY..190POF Output file: /Exps/c201c/v1/1234/No0032/bY.W.73.190POF



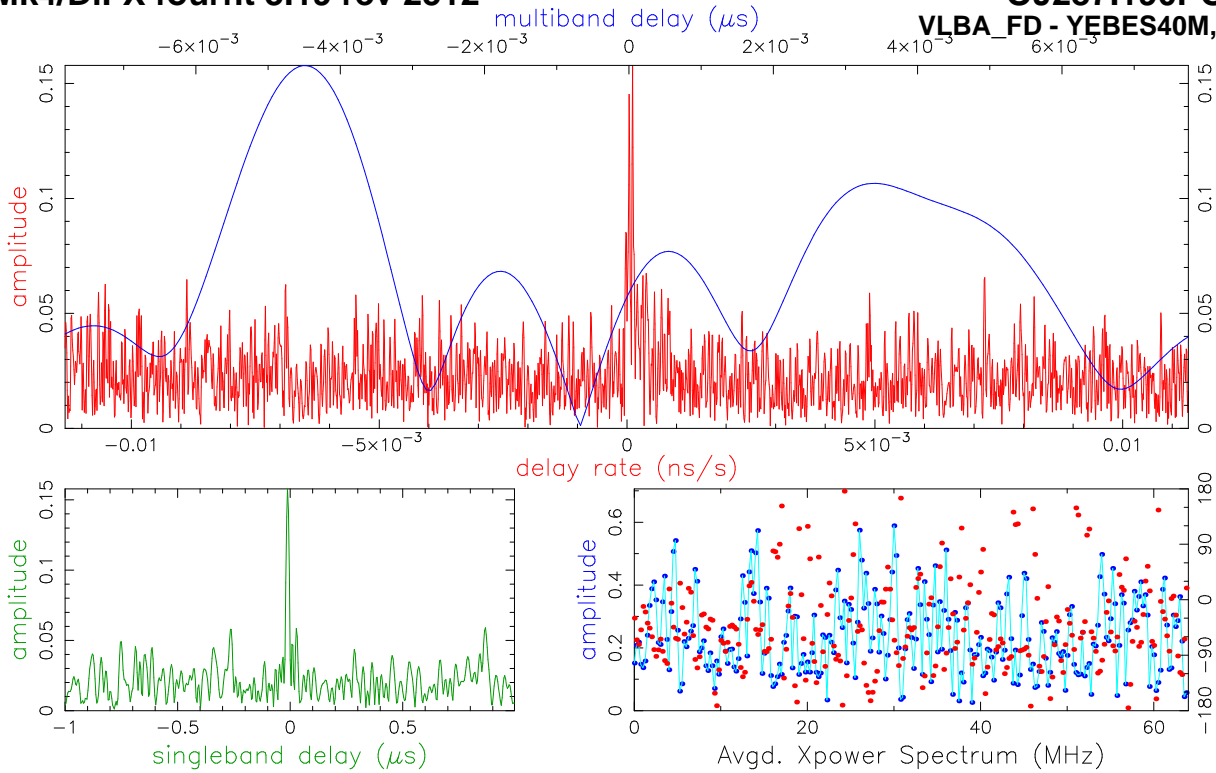
Fringe quality 5
SNR 28.4
Int time 434.145
Amp 0.499
Phase 97.3
PFD 0.0e+00
Delays (us)
SBD 0.003560
MBD 0.002776
Fringe rate (Hz) 0.004209
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210533
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-2.53455817431E+03									
Sband delay (usec)	-2.53455739000E+03									
Phase delay (usec)	-2.53456094712E+03									
Delay rate (us/s)	-3.99318462601E-02									
Total phase (deg)			5.5							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									97.3	+/- 4.0
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 57.4 9.7 Search (2048X32) 0.473 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 58.4 16.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 20.7 5.7 Inc. seg. avg. 0.768 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 30.9 9.9 Inc. frq. avg. 0.518 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
B: az 239.9 el 46.7 pa 35.9 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) 272.087 1537.469 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/BY..190POF Output file: /Exps/c201c/v1/1234/No0032/BY.W.79.190POF simultaneous interpolator

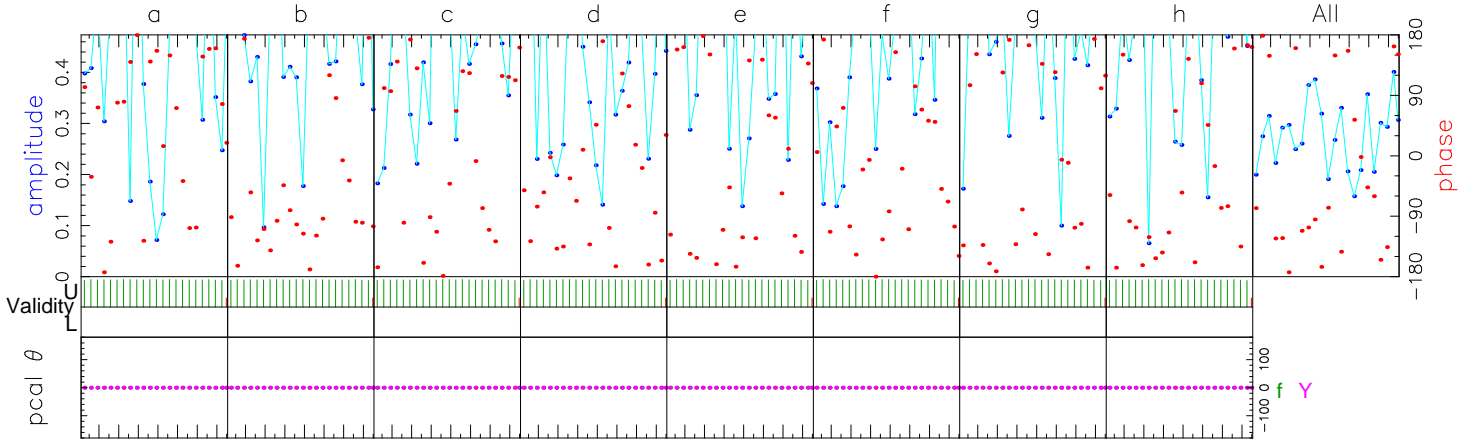


Fringe quality 9

SNR 8.9
 Int time 429.573
 Amp 0.158
 Phase -142.8
 PFD 1.4×10^{-10}
 Delays (us)
 SBD -0.011454
 MBD -0.004477
 Fringe rate (Hz)
 0.009443
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

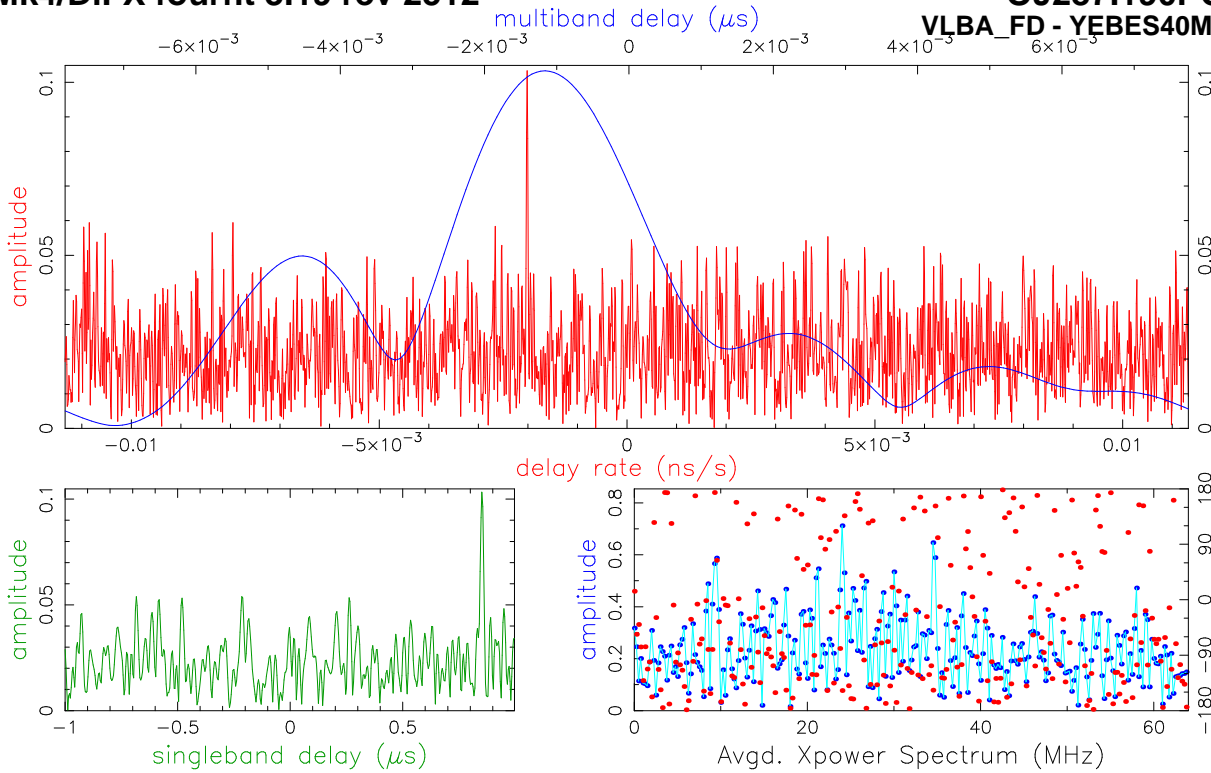
Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210542
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



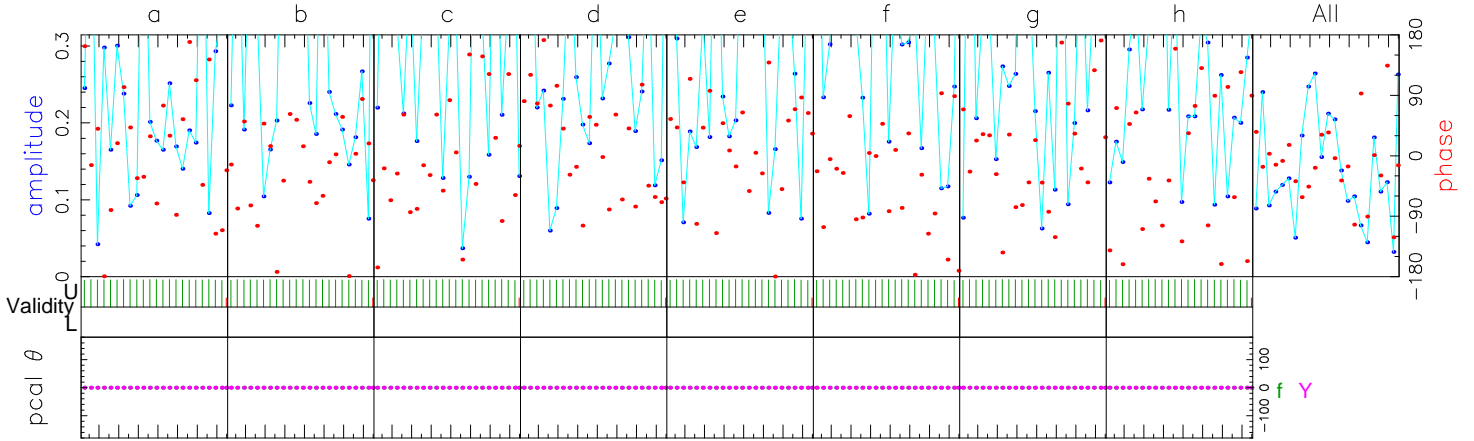
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-8.39357485345E+03				-8.39357037662E+03					
Sband delay (usec)	-8.39358183012E+03				-8.0683041E+00					
Phase delay (usec)	-8.39357038122E+03				-1.1100000E-07					
Delay rate (us/s)	1.74470695864E+00				1.74470684901E+00					
Total phase (deg)			-229.8		3.91754590376E-05					
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode:	MANUAL	MANUAL			MANUAL					
Pcal rate:	0.000E+00	0.000E+00			0.000E+00					
Bits/sample:	2x2									
Sample rate (MSamp/s):	128									
Data rate (Mb/s):	2048									
PC period (AP's)	5	5								
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

ph/seg (deg) 66.9 30.7 Search (2048X32) 0.156 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 86.9 53.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 55.3 18.1 Inc. seg. avg. 0.243 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 47.6 31.6 Inc. frq. avg. 0.201 Sample rate (MSamp/s): 128 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 80.8 el 25.4 pa -64.7 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10567.477 14.088 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fY..190POF Output file: /Exps/c201c/v1/1234/No0032/fY.W.111.190POF



Fringe quality 0
SNR 5.9
Int time 429.573
Amp 0.105
Phase -12.1
PFD 6.8e-01
Delays (us)
SBD 0.852132
MBD -0.001158
Fringe rate (Hz)
-0.173846
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210546
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec

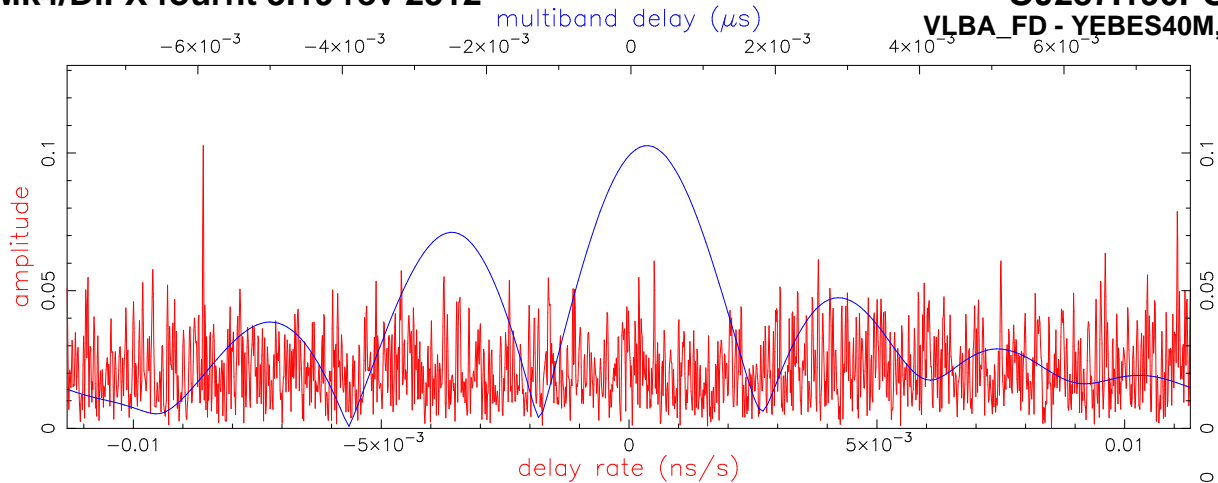


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-8.39271215986E+03	Apriori delay (usec)	-8.39357037662E+03	Resid mbdelay (usec)	-1.15824E-03	+/-	1.9E-04
Sband delay (usec)	-8.39271824412E+03	Apriori clock (usec)	-8.0683041E+00	Resid sbdelay (usec)	8.52132E-01	+/-	1.5E-03
Phase delay (usec)	-8.39357037701E+03	Apriori clockrate (us/s)	-1.1100000E-07	Resid phdelay (usec)	-3.90601E-07	+/-	6.3E-07
Delay rate (us/s)	1.74470483082E+00	Apriori rate (us/s)	1.74470684901E+00	Resid rate (us/s)	-2.01819E-06	+/-	2.5E-09
Total phase (deg)	-99.1	Apriori accel (us/s/s)	3.91754590376E-05	Resid phase (deg)	-12.1	+/-	19.5

ph/seg (deg)	RMS 56.3	Theor. 46.8	Amplitude Search (2048X32)	0.105 +/- 0.018	0.101	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	72.8	81.8	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	55.3	27.6	Inc. seg. avg.	0.105	0.105	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	42.0	48.2	Inc. frq. avg.	0.105	0.105	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

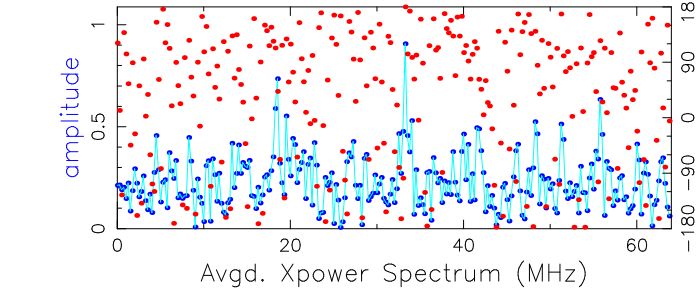
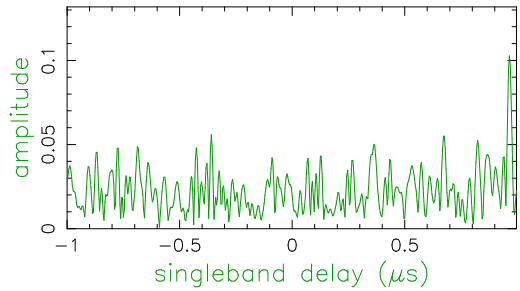
f: az 80.8 el 25.4 pa -64.7 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10567.477 14.088 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fY..190POF Output file: /Exps/c201c/v1/1234/No0032/fY.W.130.190POF



Fringe quality 0

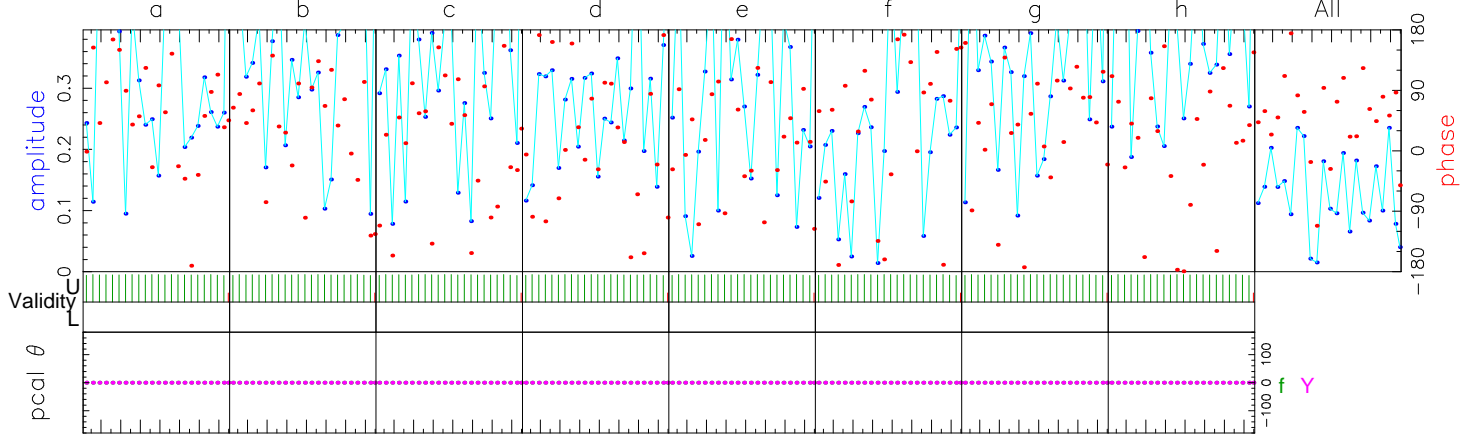
SNR 5.8
Int time 429.573
Amp 0.132
Phase 64.0
PFD 7.6e-01
Delays (us)
SBD 0.965201
MBD 0.000233
Fringe rate (Hz) -0.740971
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210550
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

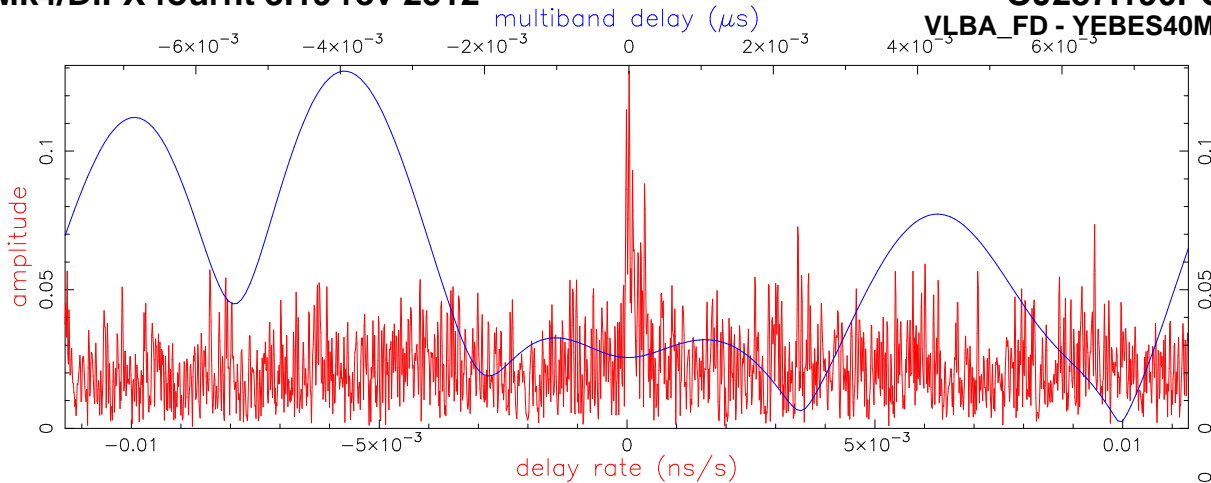


Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



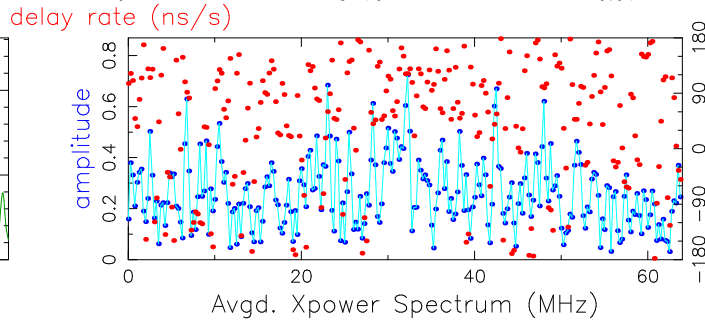
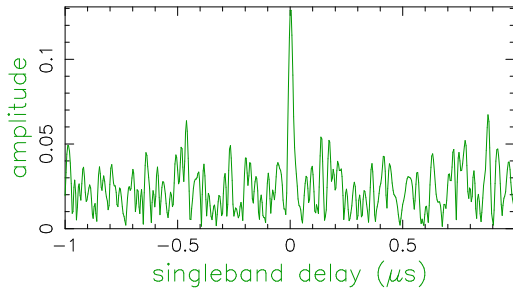
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-8.39260139313E+03				-8.39357037662E+03				2.33483E-04	+/- 1.9E-04
Sband delay (usec)	-8.39260517562E+03				-8.0683041E+00				9.65201E-01	+/- 1.5E-03
Phase delay (usec)	-8.39357037455E+03				-1.1100000E-07				2.06238E-06	+/- 6.3E-07
Delay rate (us/s)	1.74469824707E+00				1.74470684901E+00				-8.60194E-06	+/- 2.5E-09
Total phase (deg)			-23.0		3.91754590376E-05				64.0	+/- 19.7
ph/seg (deg)	59.3	47.2			44.7					
amp/seg (%)	67.6	82.3			0.1					
ph/frq (deg)	35.6	27.8			0.1					
amp/frq (%)	54.1	48.6			0.1					
RMS	59.3	47.2			44.7					
Theor.	59.3	47.2			44.7					
Amplitude	0.132 +/- 0.023				0.132 +/- 0.023					
Search (2048X32)	0.100				0.100					
Interp.	0.000				0.000					
Inc. seg. avg.	0.126				0.126					
Inc. frq. avg.	0.124				0.124					
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								
PC period (AP's) 5, 5										
SampCntNorm: enabled										



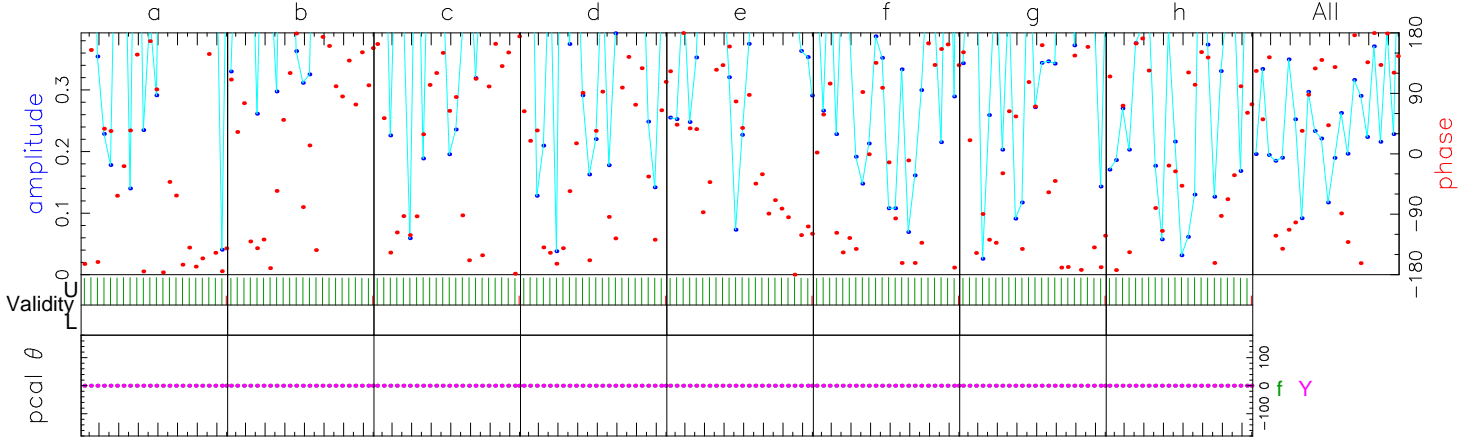
Fringe quality 9

SNR 7.4
Int time 429.573
Amp 0.131
Phase 165.2
PFD 3.7e-05
Delays (us)
SBD 0.001952
MBD -0.003921
Fringe rate (Hz) 0.003661
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210537
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"



Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



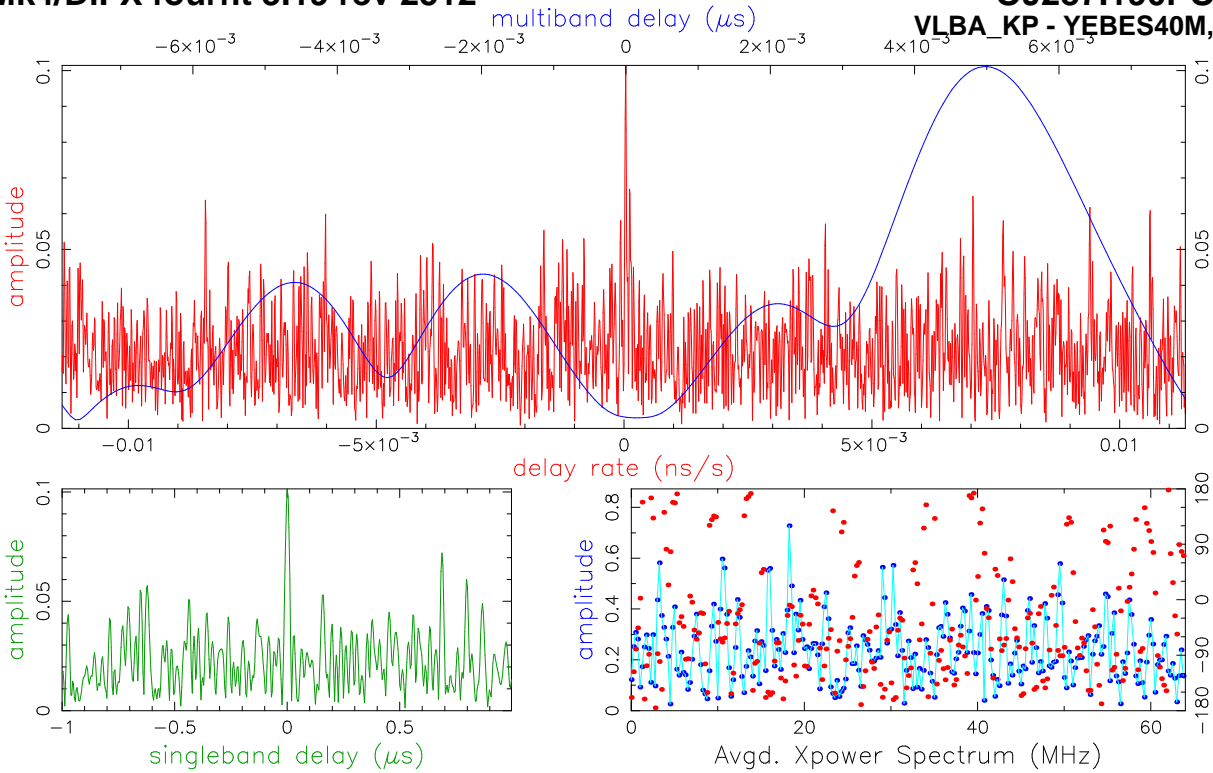
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
-160.3	134.5	160.3	95.8	-89.7	161.6	-176.6	132.7	165.2	Phase	165.2
0.3	0.3	0.2	0.1	0.1	0.2	0.2	0.1	0.2	Ampl.	0.2
257.9	257.0	257.4	242.1	343.9	239.9	131.1	139.2	257.5	Sbd box	257.5
U/L 849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
f 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y 1000	1000	1000	1000	1000	1000	1000	1000	1000		
f W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
Y W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks	

Group delay (usec)(sbd)	-8.39357429786E+03	Apriori delay (usec)	-8.39357037662E+03	Resid mbdelay (usec)	-3.92125E-03	+/-	1.5E-04
Sband delay (usec)	-8.39356842437E+03	Apriori clock (usec)	-8.0683041E+00	Resid sbdelay (usec)	1.95225E-03	+/-	1.2E-03
Phase delay (usec)	-8.39357037129E+03	Apriori clockrate (us/s)	-1.1100000E-07	Resid phdelay (usec)	5.32580E-06	+/-	5.0E-07
Delay rate (us/s)	1.74470689150E+00	Apriori rate (us/s)	1.74470684901E+00	Resid rate (us/s)	4.24950E-08	+/-	2.0E-09
Total phase (deg)	78.2	Apriori accel (us/s/s)	3.91754590376E-05	Resid phase (deg)	165.2	+/-	15.4

ph/seg (deg)	67.5	Theor.	37.0	Amplitude	0.131 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	108.8	Search (2048X32)	0.128	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	56.9	Inc. seg. avg.	0.205	Inc. frq. avg.	0.158	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	58.5	Inc. frq. avg.	0.158			Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011 0.011	
						Data rate(Mb/s): 2048	ion window (TEC)	0.00 0.00	

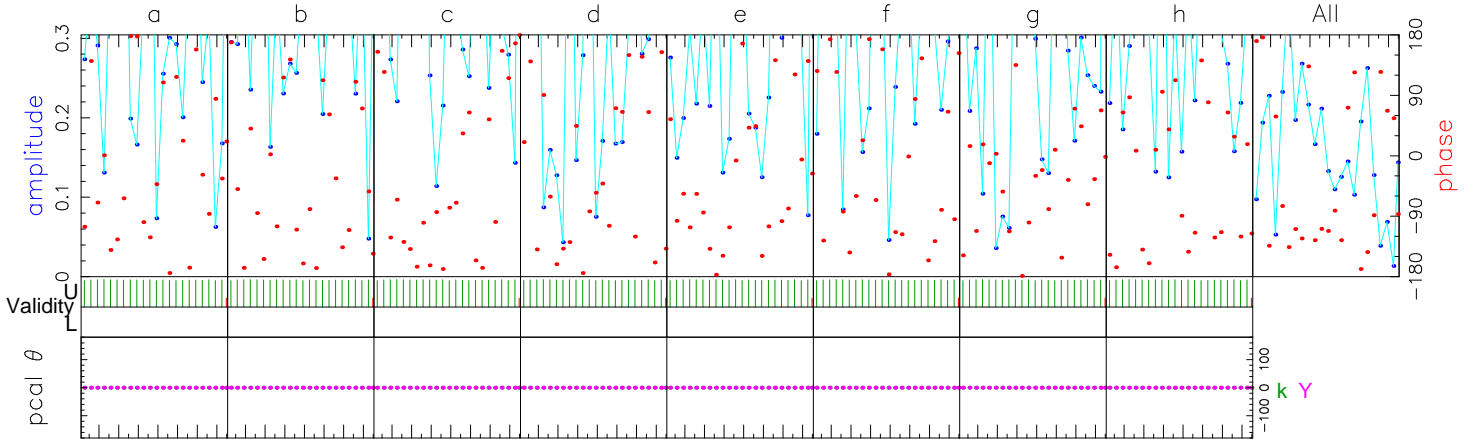
f: az 80.8 el 25.4 pa -64.7 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10567.477 14.088 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fY..190POF Output file: /Exps/c201c/v1/1234/No0032/fY.W.89.190POF



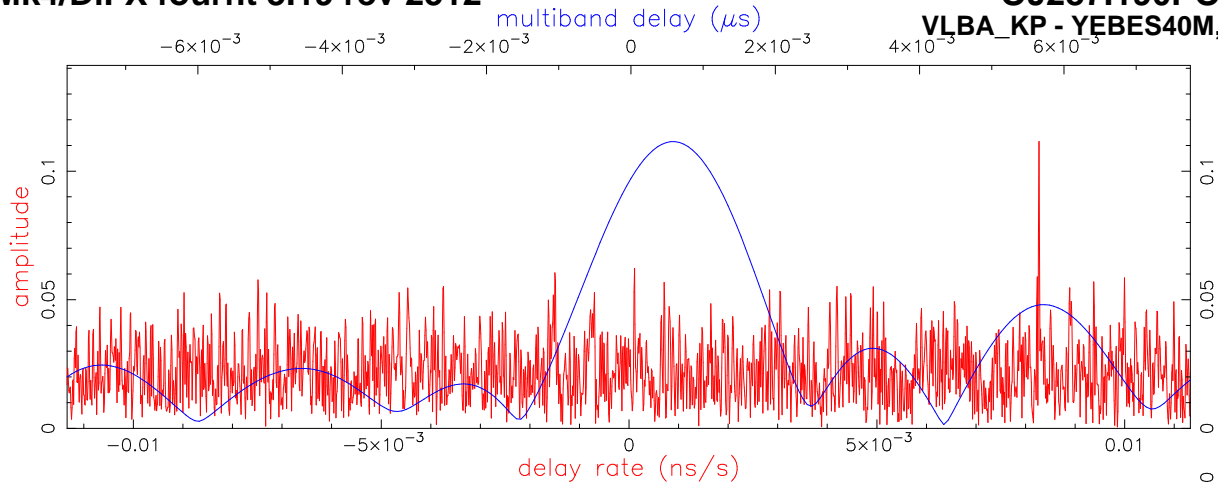
Fringe quality 0
 SNR 5.7
 Int time 425.824
 Amp 0.101
 Phase -136.9
 PFD 9.2e-01
 Delays (us)
 SBD 0.000956
 MBD 0.005006
 Fringe rate (Hz) 0.003312
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build 2020:202:063214
 2020:202:210542
 2020:014:135814
 RA & Dec (J2000) 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



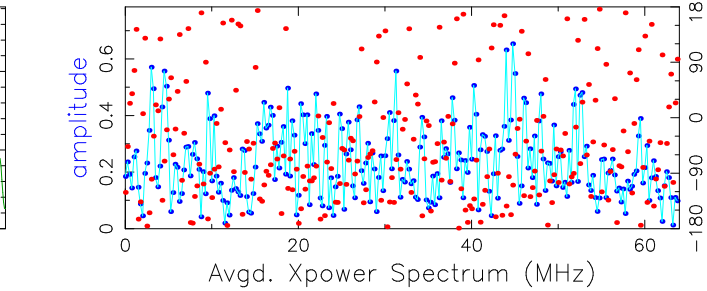
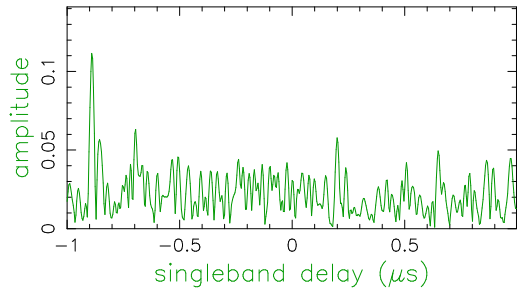
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-125.9	-139.9	-145.0	-150.9	-105.4	-140.9	-45.3	166.4	Phase	-136.9
	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	226.2	76.2	257.0	403.2	266.1	406.1	286.6	466.5	Sbd box	257.2
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.05199665520E+04		Apriori delay (usec)		-1.05199715578E+04		Resid mbdelay (usec)		5.00582E-03	+/- 1.9E-04
Sband delay (usec)	-1.05199706015E+04		Apriori clock (usec)		-1.2319255E+01		Resid sbdelay (usec)		9.56250E-04	+/- 1.5E-03
Phase delay (usec)	-1.05199715622E+04		Apriori clockrate (us/s)		-2.1460000E-07		Resid phdelay (usec)		-4.41324E-06	+/- 6.5E-07
Delay rate (us/s)	1.77318806504E+00		Apriori rate (us/s)		1.77318802659E+00		Resid rate (us/s)		3.84527E-08	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		5.12211184434E-05		Resid phase (deg)		-136.9	+/- 20.0

ph/seg (deg) 81.6 48.0 Search (2048X32) 0.098 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 100.9 83.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 46.6 28.3 Inc. seg. avg. 0.120 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 45.6 49.4 Inc. frq. avg. 0.104 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 77.9 el 19.2 pa -62.2 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10721.319 524.100 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kY..190POF Output file: /Exps/c201c/v1/1234/No0032/kY.W.112.190POF



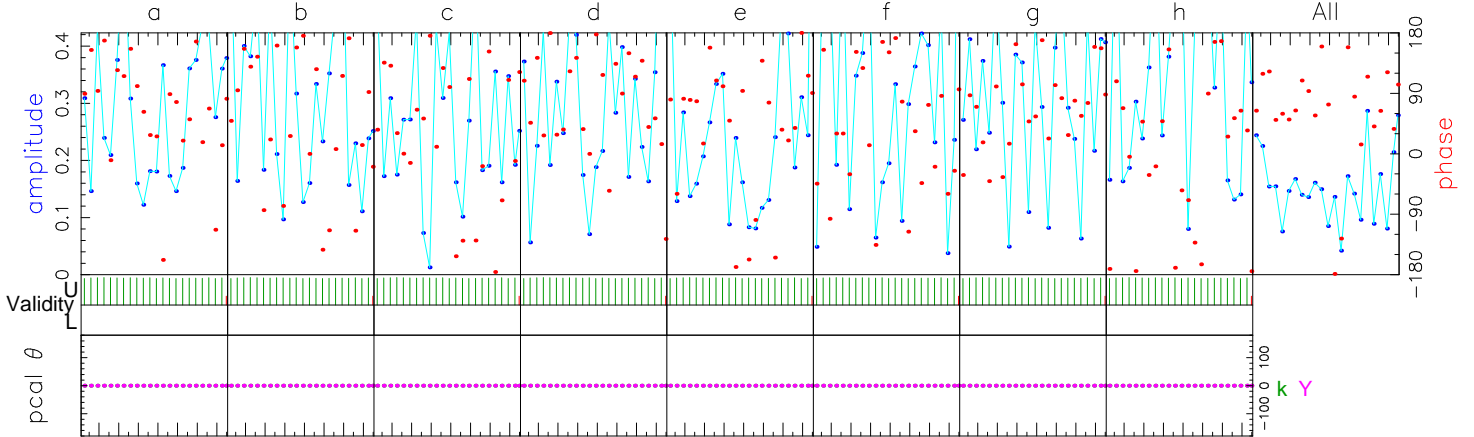
Fringe quality 0

SNR 6.3
 Int time 425.823
 Amp 0.141
 Phase 88.8
 PFD 6.6e-02
 Delays (us)
 SBD -0.889529
 MBD 0.000601
 Fringe rate (Hz)
 0.713585
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210546
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



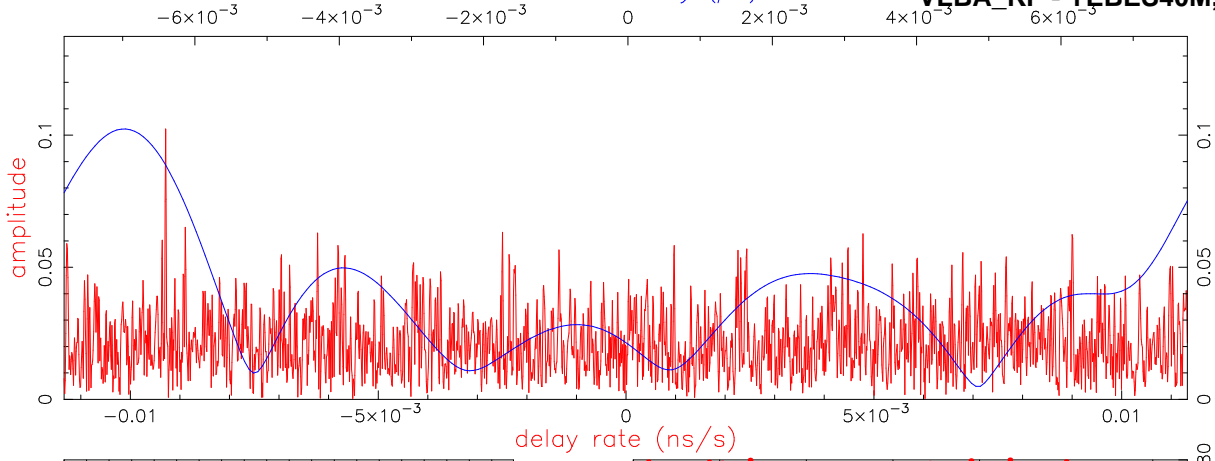
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-1.05208615820E+04	Apriori delay (usec)	-1.05199715578E+04	Resid mbdelay (usec)	6.00796E-04	+/-	1.7E-04
Sband delay (usec)	-1.05208610865E+04	Apriori clock (usec)	-1.2319255E+01	Resid sbdelay (usec)	-8.89529E-01	+/-	1.4E-03
Phase delay (usec)	-1.05199715549E+04	Apriori clockrate (us/s)	-2.1460000E-07	Resid phdelay (usec)	2.86273E-06	+/-	5.8E-07
Delay rate (us/s)	1.77319631060E+00	Apriori rate (us/s)	1.77318802659E+00	Resid rate (us/s)	8.28402E-06	+/-	2.3E-09
Total phase (deg)	-267.0	Apriori accel (us/s/s)	5.12211184434E-05	Resid phase (deg)	88.8	+/-	18.1

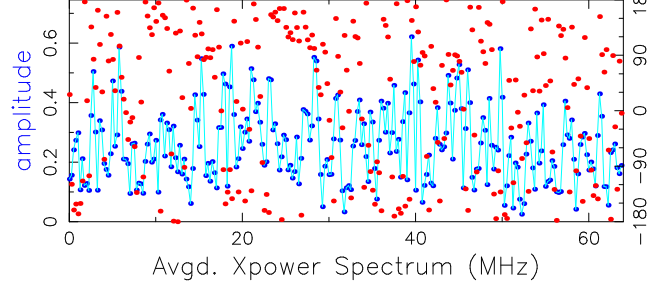
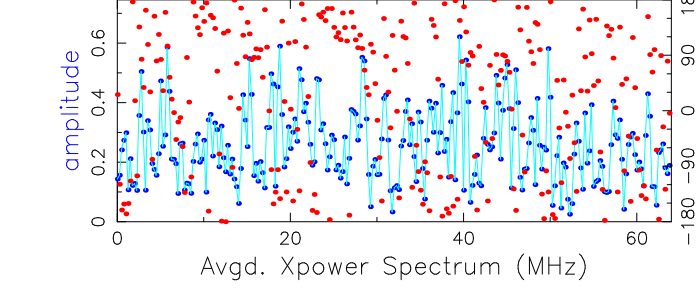
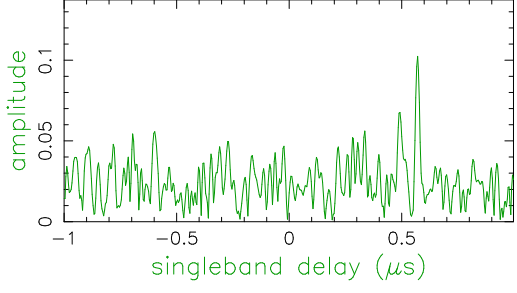
ph/seg (deg)	52.3	Theor.	43.4	Amplitude	0.141 +/- 0.022	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	62.9		75.8	Search (2048X32)	0.107	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	19.3		25.6	Inc. seg. avg.	0.148	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	36.2		44.7	Inc. frq. avg.	0.131	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

k: az 77.9 el 19.2 pa -62.2 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10721.319 524.100 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kY..190POF Output file: /Exps/c201c/v1/1234/No0032/kY.W.126.190POF

multiband delay (μs)

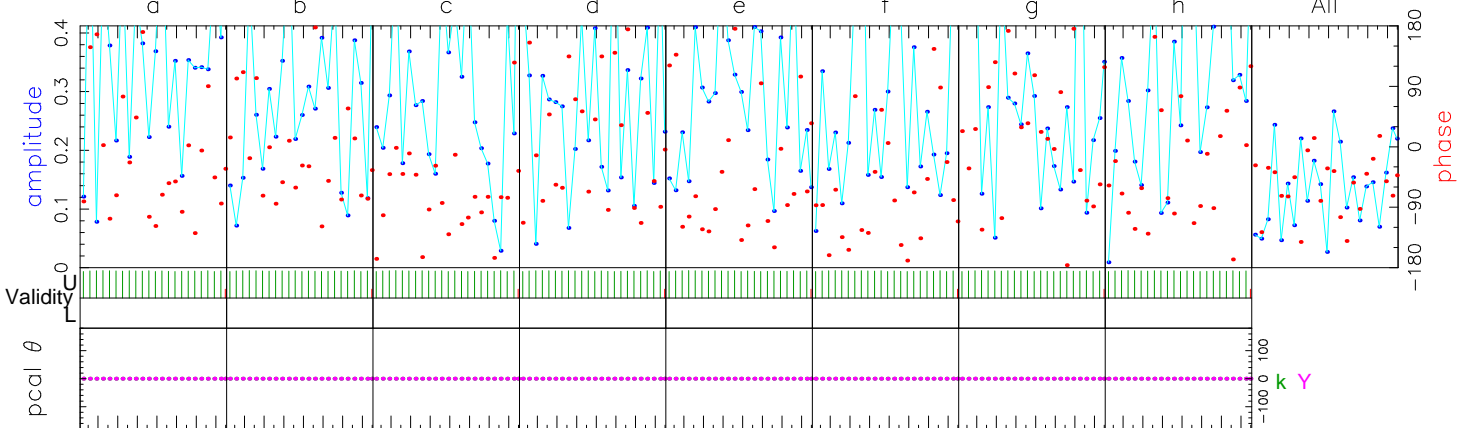


Fringe quality 0
 SNR 5.8
 Int time 425.824
 Amp 0.137
 Phase -56.5
 PFD 8.5e-01
 Delays (us)
 SBD 0.570011
 MBD -0.006992
 Fringe rate (Hz) -0.801333
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build 2020:202:063214
 2020:202:210550
 2020:014:135814
 RA & Dec (J2000) 08h54m48.874928s
 +20°06'30.640850"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec

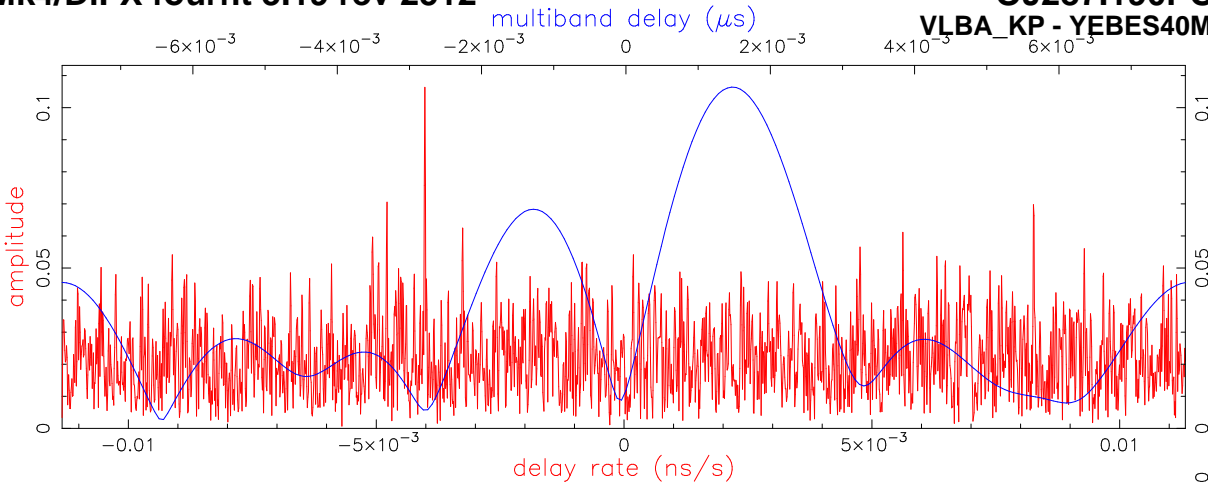


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-53.5	-27.0	-72.0	-64.4	-84.3	-95.3	3.9	-40.2		Phase -56.5
	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.1		Ampl. 0.1
	12.0	402.2	433.5	342.8	401.6	447.8	410.9	84.8		Sbd box 402.9
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		APs used
k	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
Y	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
k	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
Y	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks

Group delay (usec)(sbd)	-1.05194004253E+04	Apriori delay (usec)		-1.05199715578E+04	Resid mbdelay (usec)		-6.99246E-03	+/-	1.9E-04	
Sband delay (usec)	-1.05194015470E+04	Apriori clock (usec)		-1.2319255E+01	Resid sbdelay (usec)		5.70011E-01	+/-	1.5E-03	
Phase delay (usec)	-1.05199715596E+04	Apriori clockrate (us/s)		-2.1460000E-07	Resid phdelay (usec)		-1.82132E-06	+/-	6.4E-07	
Delay rate (us/s)	1.77317872390E+00	Apriori rate (us/s)		1.77318802659E+00	Resid rate (us/s)		-9.30268E-06	+/-	2.5E-09	
Total phase (deg)		-52.2	Apriori accel (us/s/s)		5.12211184434E-05	Resid phase (deg)		-56.5	+/-	19.8

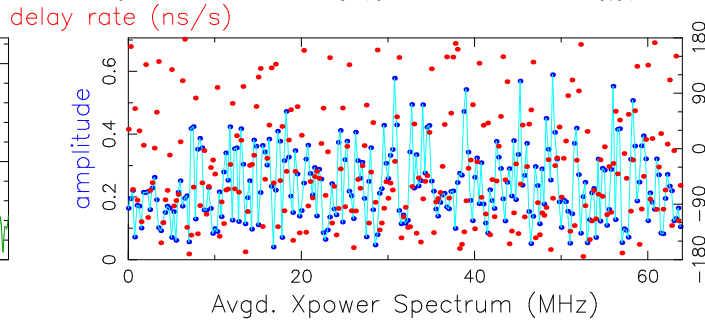
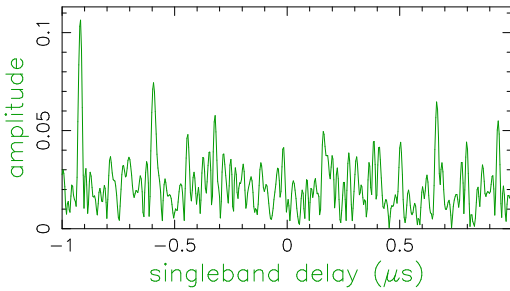
ph/seg (deg)	43.3	Theor. 47.6	Amplitude	0.137 +/- 0.024	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000	1.000
amp/seg (%)	75.2	83.0	Search (2048X32)	0.099	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.008	0.008
ph/frq (deg)	35.1	28.0	Inc. seg. avg.	0.135	Bits/sample: 2x2		Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011
amp/frq (%)	48.9	49.0	Inc. frq. avg.	0.143	Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00	0.00

k: az 77.9 el 19.2 pa -62.2 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10721.319 524.100 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kY..190POF Output file: /Exps/c201c/v1/1234/No0032/kY.W.144.190POF



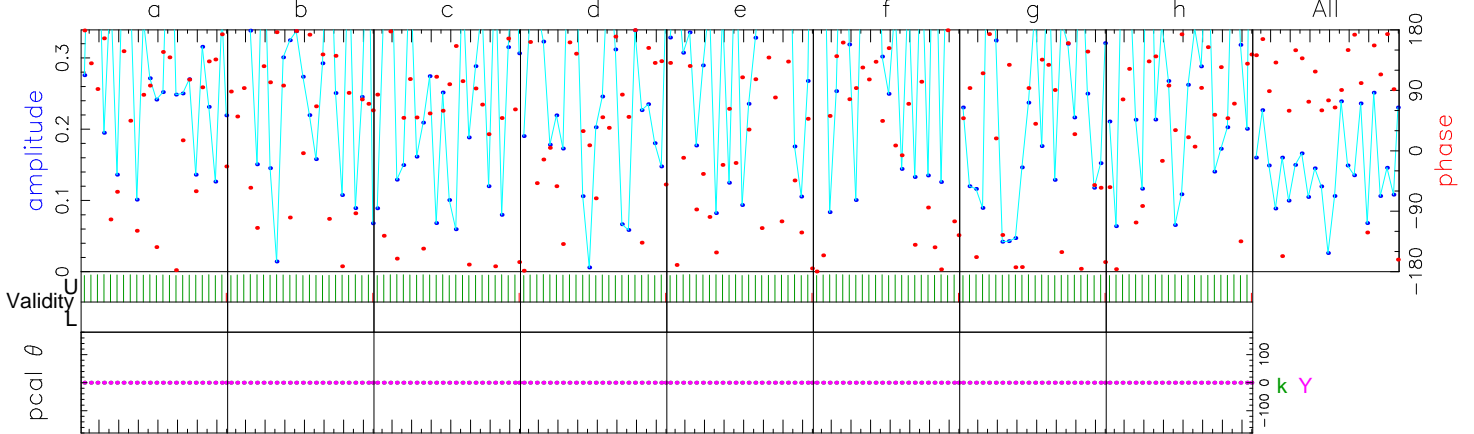
Fringe quality 0

SNR 6.1
Int time 425.823
Amp 0.113
Phase 129.4
PFD 3.0e-01
Delays (us)
SBD -0.919262
MBD 0.001448
Fringe rate (Hz)
-0.346525
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210538
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	131.7	104.9	119.4	155.8	151.2	152.1	141.1	101.8	Phase	129.4
	0.2	0.1	0.1	0.1	0.0	0.2	0.1	0.1	Ampl.	0.1
	20.3	48.3	500.8	459.8	150.9	21.6	353.6	91.3	Sbd box	21.7
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

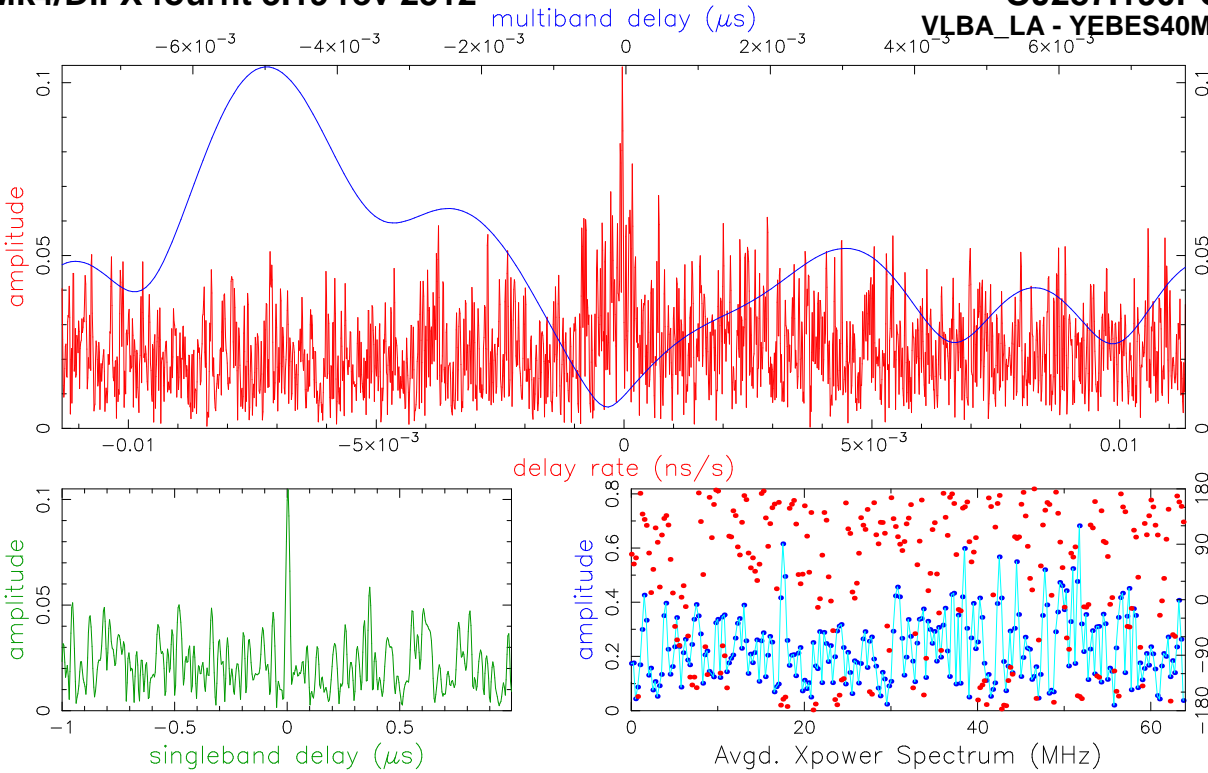
Group delay (usec)(sbd)	-1.05208919852E+04	Apriori delay (usec)	-1.05199715578E+04	Resid mbdelay (usec)	1.44755E-03	+/-	1.8E-04
Sband delay (usec)	-1.05208908198E+04	Apriori clock (usec)	-1.2319255E+01	Resid sbdelay (usec)	-9.19262E-01	+/-	1.4E-03
Phase delay (usec)	-1.05199715536E+04	Apriori clockrate (us/s)	-2.1460000E-07	Resid phdelay (usec)	4.17122E-06	+/-	6.1E-07
Delay rate (us/s)	1.77318400378E+00	Apriori rate (us/s)	1.77318802659E+00	Resid rate (us/s)	-4.02281E-06	+/-	2.4E-09
Total phase (deg)	-226.4	Apriori accel (us/s/s)	5.12211184434E-05	Resid phase (deg)	129.4	+/-	18.9

ph/seg (deg)	48.2	Theor.	45.3	Amplitude	0.113 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	62.3		45.3	Search (2048X32)	0.100	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	23.4		26.7	Inc. seg. avg.	0.116	Bits/sample: 2x2	mb window (us) -0.008 0.008
amp/frq (%)	47.5		46.7	Inc. frq. avg.	0.107	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

k: az 77.9 el 19.2 pa -62.2 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10721.319 524.100 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kY..190POF Output file: /Exps/c201c/v1/1234/No0032/kY.W.94.190POF

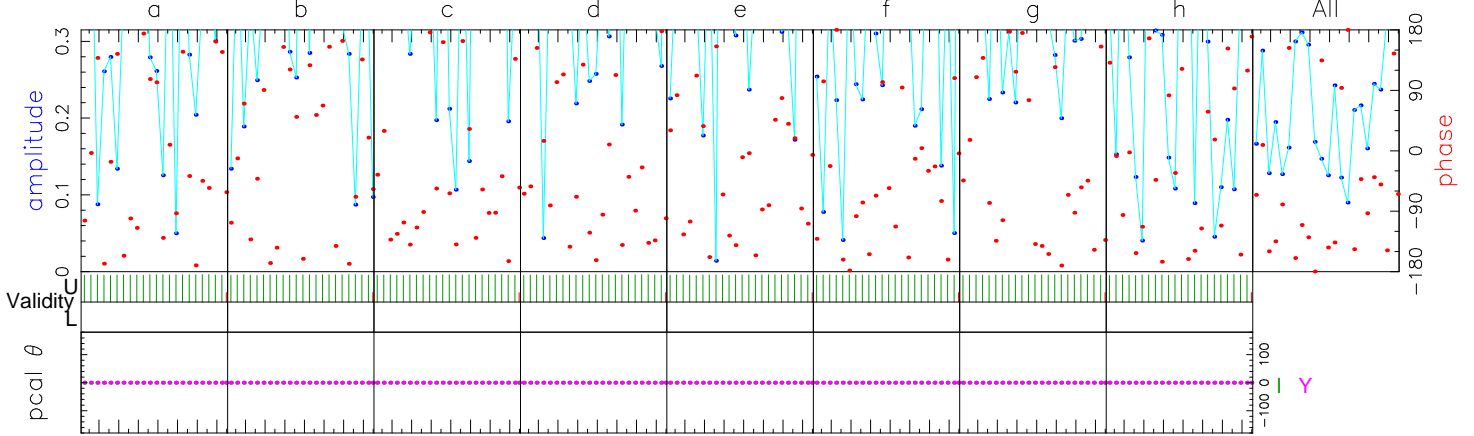
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, IY
VLBA_LA - YEBES40M, fgroup W, pol LL



Fringe quality 0
SNR 5.9
Int time 428.255
Amp 0.105
Phase -126.9
PFD 5.1e-01
Delays (us)
SBD 0.003052
MBD -0.004990
Fringe rate (Hz)
-0.002877
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210551
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

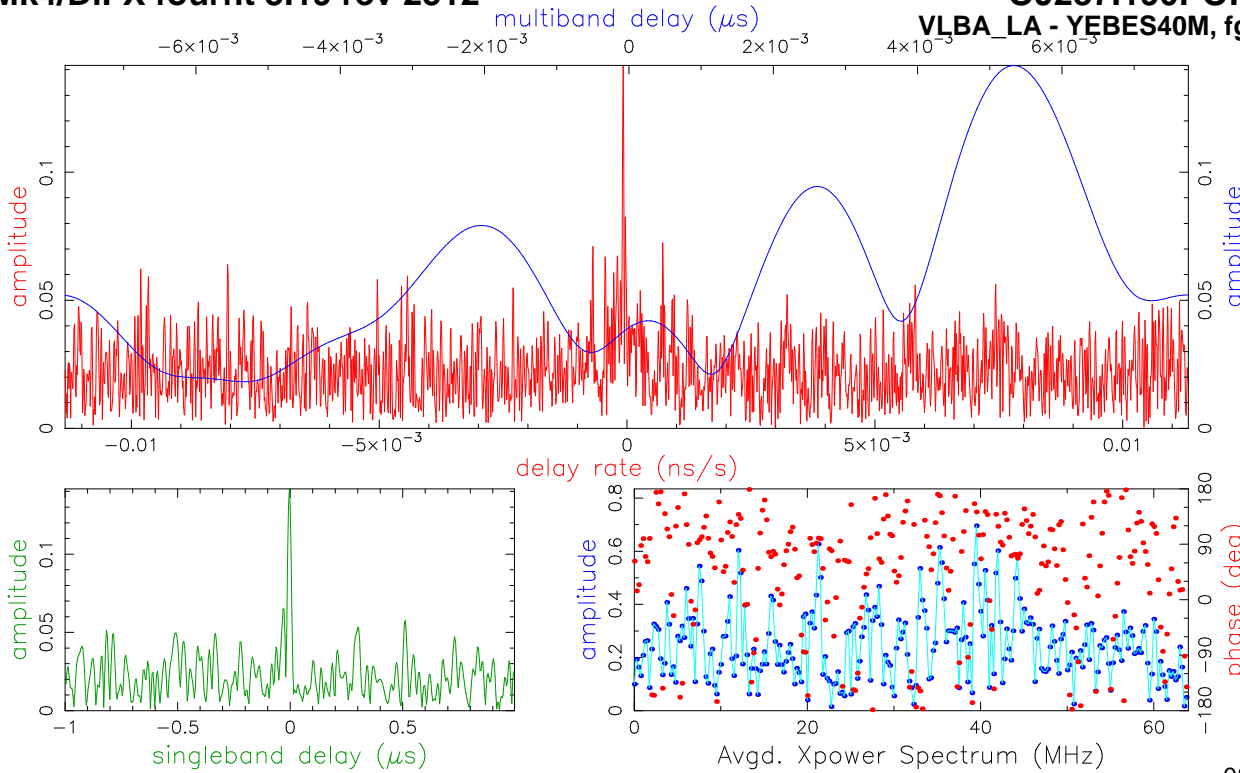
Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-143.9	158.3	-110.0	-110.5	-73.3	-83.5	-147.0	178.2	Phase	-126.9
	0.1	0.1	0.3	0.1	0.2	0.1	0.2	0.1	Ampl.	0.1
	463.7	256.9	257.5	232.3	257.8	351.4	270.9	253.6	Sbd box	257.8
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-8.80167716832E+03		Apriori delay (usec)		-8.80168780297E+03		Resid mbdelay (usec)		-4.99035E-03	+/- 1.8E-04
Sband delay (usec)	-8.80168475072E+03		Apriori clock (usec)		-1.5691864E+01		Resid sbdelay (usec)		3.05225E-03	+/- 1.4E-03
Phase delay (usec)	-8.80168780707E+03		Apriori clockrate (us/s)		-3.7100000E-07		Resid phdelay (usec)		-4.09310E-06	+/- 6.2E-07
Delay rate (us/s)	1.69253798590E+00		Apriori rate (us/s)		1.69253801929E+00		Resid rate (us/s)		-3.33979E-08	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		4.42041665029E-05		Resid phase (deg)		-126.9	+/- 19.3

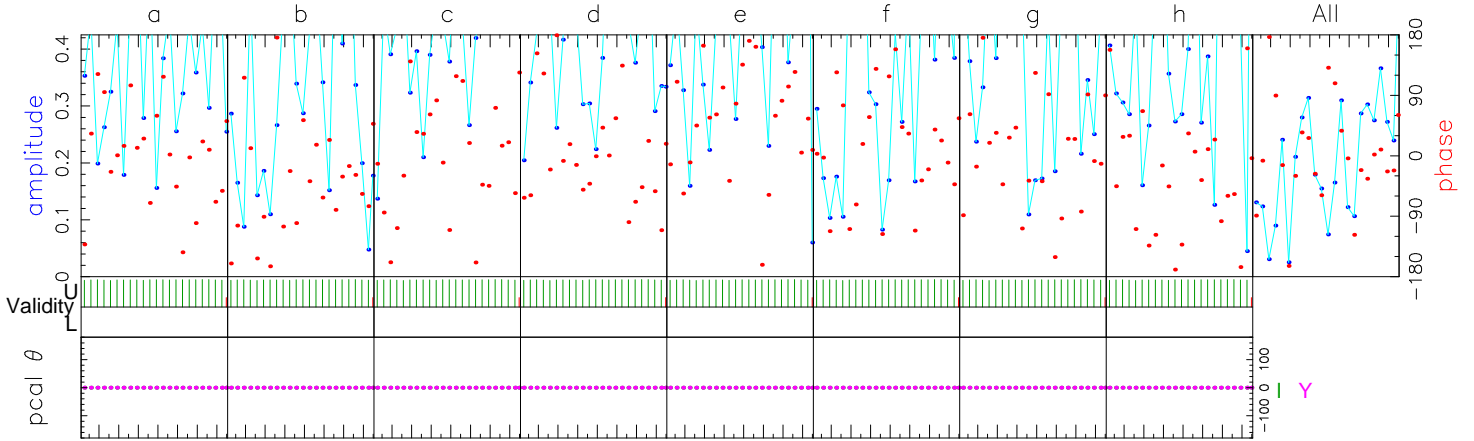
RMS Theor. Amplitude 0.105 +/- 0.018
ph/seg (deg) 66.9 46.2 Search (2048X32) 0.104
amp/seg (%) 124.0 80.7 Interp. 0.000
ph/frq (deg) 49.3 27.3 Inc. seg. avg. 0.159
amp/frq (%) 58.2 47.6 Inc. frq. avg. 0.125
Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

I: az 82.1 el 24.3 pa -58.9 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10242.087 780.881 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IY..190POF Output file: /Exps/c201c/v1/1234/No0032/IY.W.151.190POF



Fringe quality 9
 SNR 8.0
 Int time 428.257
 Amp 0.142
 Phase -1.7
 PFD 3.7e-07
 Delays (us)
 SBD -0.003855
 MBD 0.005333
 Fringe rate (Hz) -0.006807
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210556
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

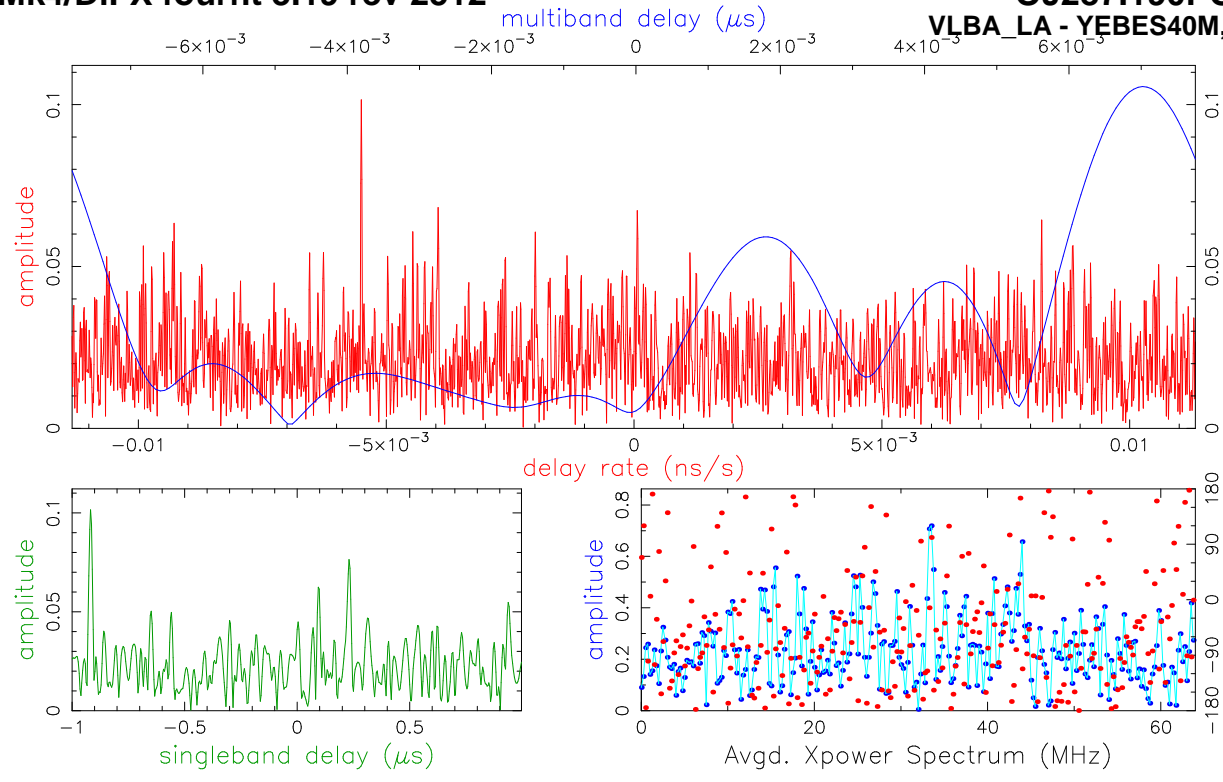
Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-5.1	-43.7	12.1	-9.6	84.8	5.2	8.1	-50.6	Phase	-1.7
	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
	20.6	256.1	243.1	255.4	255.7	255.8	255.1	254.4	Sbd box	256.0
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-8.80169809498E+03		Apriori delay (usec)		-8.80168780297E+03		Resid mbdelay (usec)		5.33299E-03	+/- 1.4E-04
Sband delay (usec)	-8.80169165772E+03		Apriori clock (usec)		-1.5691864E+01		Resid sbdelay (usec)		-3.85475E-03	+/- 1.1E-03
Phase delay (usec)	-8.80168780303E+03		Apriori clockrate (us/s)		-3.7100000E-07		Resid phdelay (usec)		-5.37840E-08	+/- 4.6E-07
Delay rate (us/s)	1.69253794027E+00		Apriori rate (us/s)		1.69253801929E+00		Resid rate (us/s)		-7.90219E-08	+/- 1.8E-09
Total phase (deg)			Apriori accel (us/s/s)		4.42041665029E-05		Resid phase (deg)		-1.7	+/- 14.3

	RMS	Theor.	Amplitude	0.142 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	76.2	34.3	Search (2048X32)	0.140	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	83.3	59.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	44.8	20.2	Inc. seg. avg.	0.170	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	35.5	35.3	Inc. frq. avg.	0.174	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

I: az 82.1 el 24.3 pa -58.9 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10242.087 780.881 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IY..190POF Output file: /Exps/c201c/v1/1234/No0032/IY.W.165.190POF

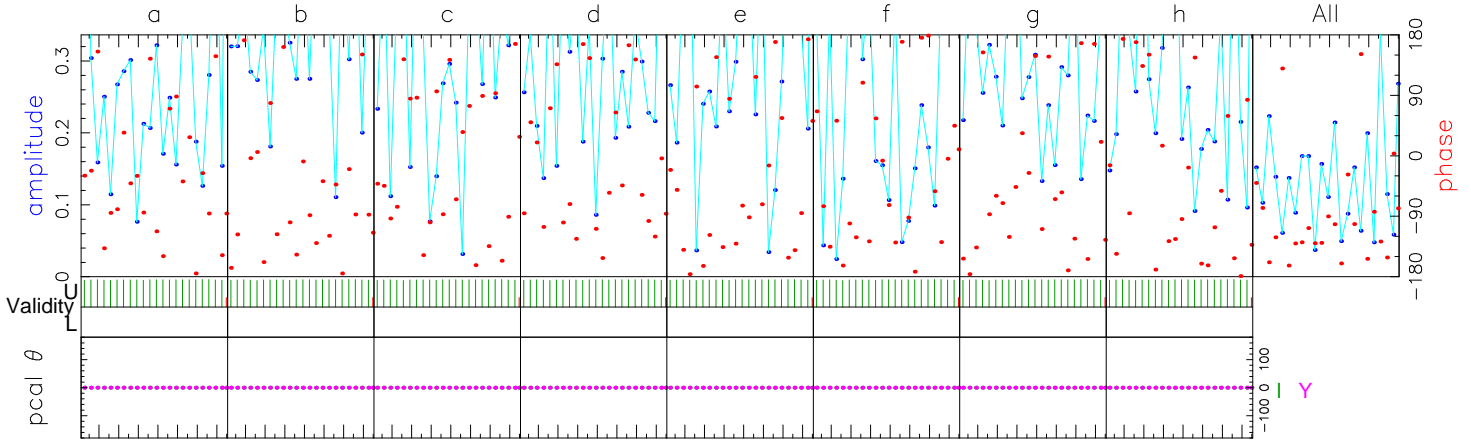


Fringe quality 0

SNR 5.7
 Int time 428.255
 Amp 0.112
 Phase -120.7
 PFD 9.0e-01
 Delays (us)
 SBD -0.917660
 MBD -0.008301
 Fringe rate (Hz)
 -0.474760
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210601
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-61.1	-110.7	-166.3	-84.7	-129.1	-122.4	-120.1	-150.4	Phase	-120.7
	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.2	Ampl.	0.1
	91.3	336.0	232.7	68.3	171.6	281.3	19.7	170.8	Sbd box	22.1
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-8.80260235375E+03	Apriori delay (usec)	-8.80168780297E+03	Resid mbdelay (usec)	-8.30078E-03	+/-	1.9E-04
Sband delay (usec)	-8.80260546247E+03	Apriori clock (usec)	-1.5691864E+01	Resid sbdelay (usec)	-9.17660E-01	+/-	1.5E-03
Phase delay (usec)	-8.80168780686E+03	Apriori clockrate (us/s)	-3.7100000E-07	Resid phdelay (usec)	-3.89115E-06	+/-	6.4E-07
Delay rate (us/s)	1.69253250780E+00	Apriori rate (us/s)	1.69253801929E+00	Resid rate (us/s)	-5.51150E-06	+/-	2.6E-09
Total phase (deg)	-246.0	Apriori accel (us/s/s)	4.42041665029E-05	Resid phase (deg)	-120.7	+/-	19.9

ph/seg (deg)	53.0	Theor.	47.8	Amplitude	0.112 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	77.6	Search (2048X32)	0.104	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	36.5	Inc. seg. avg.	0.109	Inc. frq. avg.	0.112	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	39.3	Inc. frq. avg.	0.112			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

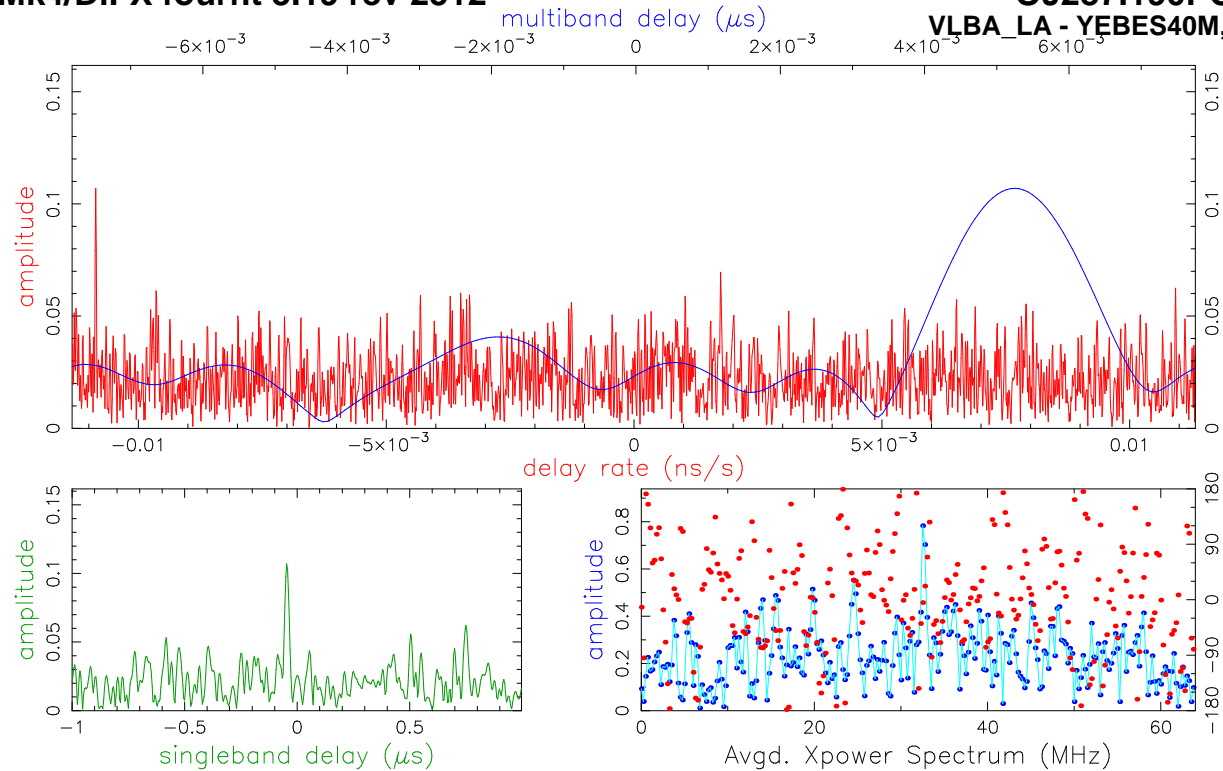
I: az 82.1 el 24.3 pa -58.9 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10242.087 780.881 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IY..190POF Output file: /Exps/c201c/v1/1234/No0032/IY.W.186.190POF

Mk4/DiFX fourfit 3.19 rev 2512

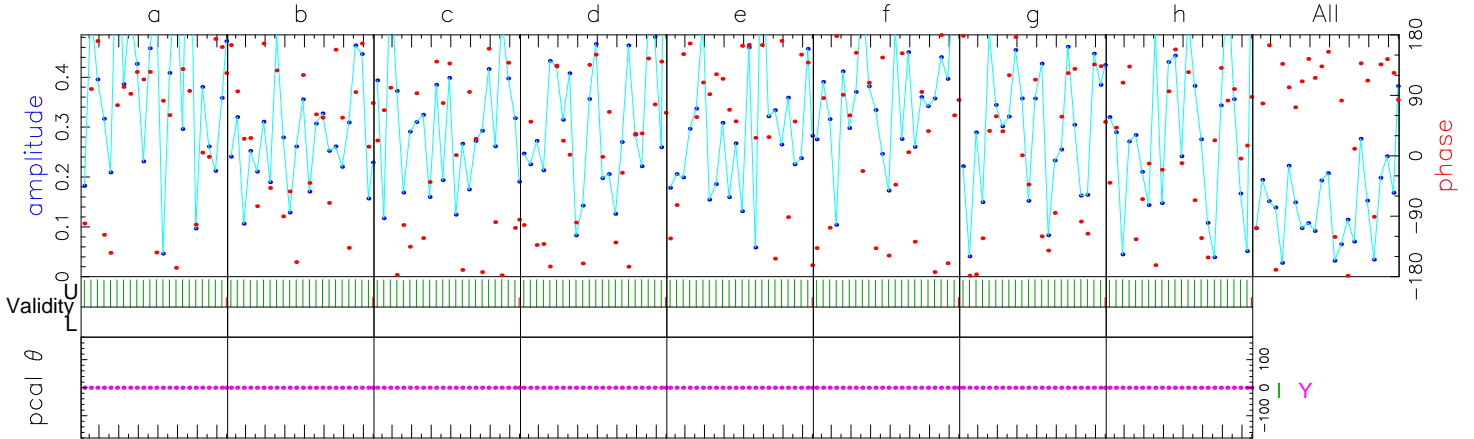
OJ287.190POF, No0032, IY

VLBA_LA - YEBES40M, fgroup W, pol RL



Fringe quality 0
 SNR 6.1
 Int time 428.257
 Amp 0.162
 Phase 129.0
 PFD 3.0e-01
 Delays (us)
 SBD -0.046150
 MBD 0.005275
 Fringe rate (Hz)
 -0.936704
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210606
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



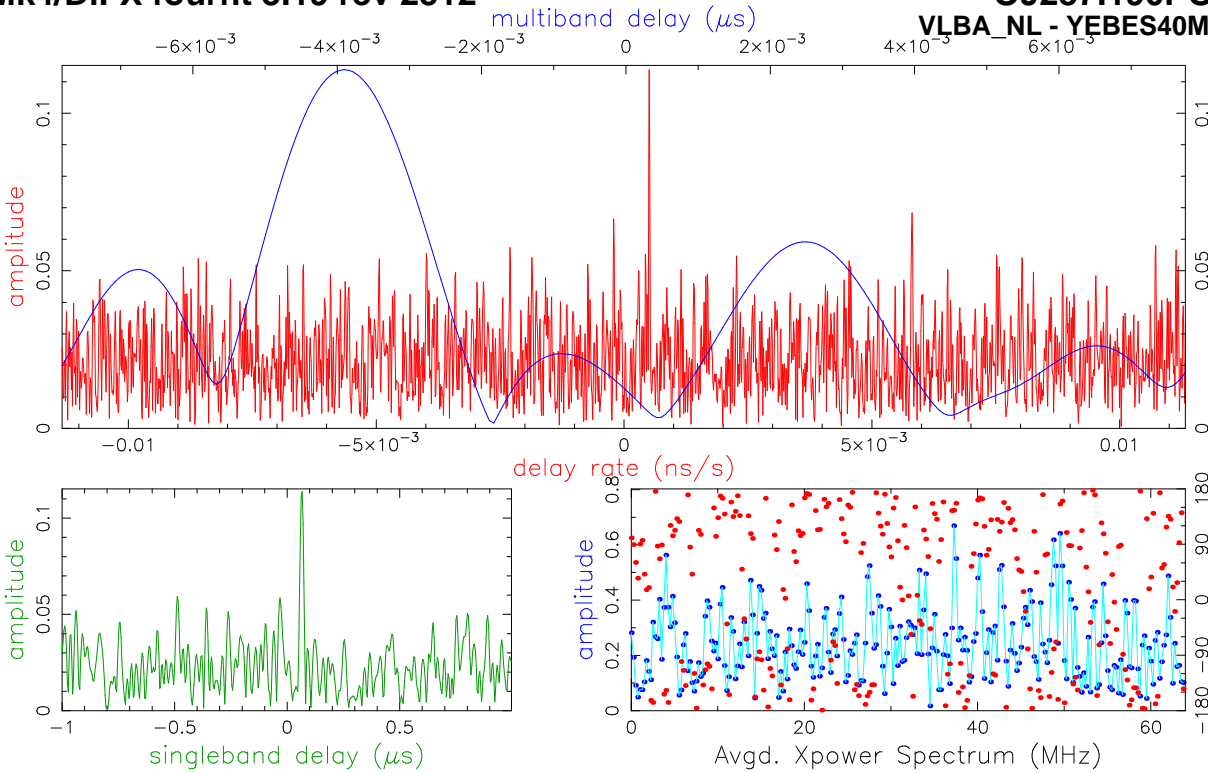
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-8.80172940310E+03									
Sband delay (usec)	-8.80173395272E+03									
Phase delay (usec)	-8.80168779881E+03									
Delay rate (us/s)	1.69252714509E+00									
Total phase (deg)			3.7							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
pcal mode										
pcal rate										
bits/sample										
sample rate										
data rate										
nlags										
t_cohere										
sb window										
mb window										
dr window										
ion window										
pcal θ										
pcal mode										
pcal rate										
bits/sample										
sample rate										
data rate										
nlags										
t_cohere										
sb window										
mb window										
dr window										
ion window										

I: az 82.1 el 24.3 pa -58.9 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10242.087 780.881 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IY..190POF Output file: /Exps/c201c/v1/1234/No0032/IY.W.202.190POF

Mk4/DiFX fourfit 3.19 rev 2512

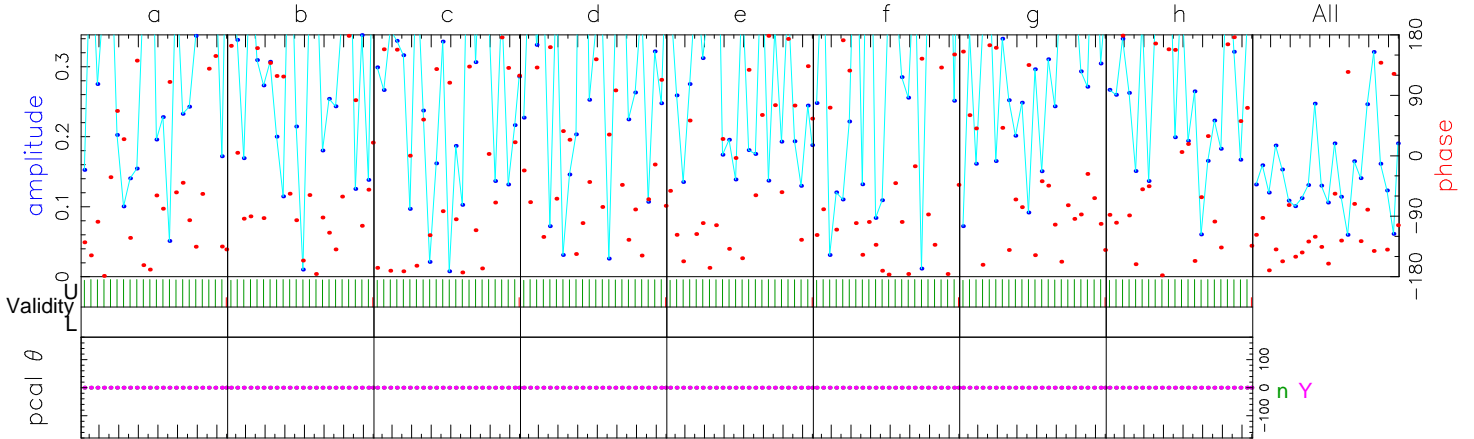
OJ287.190POF, No0032, nY

VLBA_NL - YEYES40M, fgroup W, pol RL



Fringe quality 0
 SNR 6.5
 Int time 432.382
 Amp 0.115
 Phase -126.6
 PFD 1.7e-02
 Delays (us)
 SBD 0.064992
 MBD -0.003935
 Fringe rate (Hz)
 0.043956
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210601
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

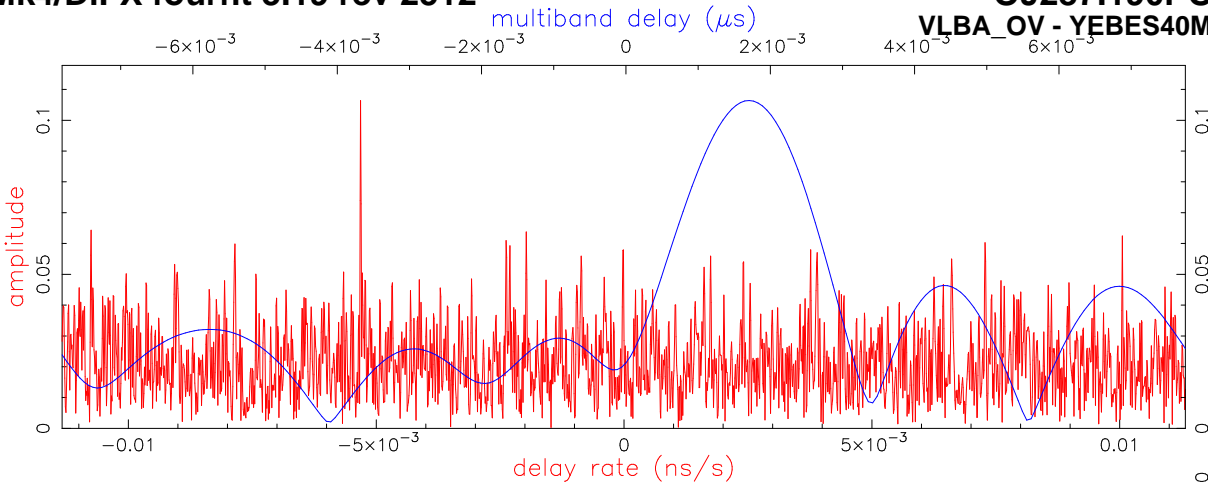
Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-130.8	-118.0	-178.9	-87.4	-134.2	-123.6	-99.9	-158.8	Phase	-126.6
	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1
	487.8	484.4	167.6	197.0	382.0	273.3	40.2	156.9	Sbd box	273.6
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.09505050085E+03		Apriori delay (usec)		-5.09510906627E+03		Resid mbdelay (usec)		-3.93457E-03	+/- 1.7E-04
Sband delay (usec)	-5.09504407427E+03		Apriori clock (usec)		2.0323853E+01		Resid sbdelay (usec)		6.49920E-02	+/- 1.3E-03
Phase delay (usec)	-5.09510907035E+03		Apriori clockrate (us/s)		1.1399998E-07		Resid phdelay (usec)		-4.08126E-06	+/- 5.6E-07
Delay rate (us/s)	1.48566577057E+00		Apriori rate (us/s)		1.48566526028E+00		Resid rate (us/s)		5.10291E-07	+/- 2.2E-09
Total phase (deg)			Apriori accel (us/s/s)		2.78318605455E-05		Resid phase (deg)		-126.6	+/- 17.5

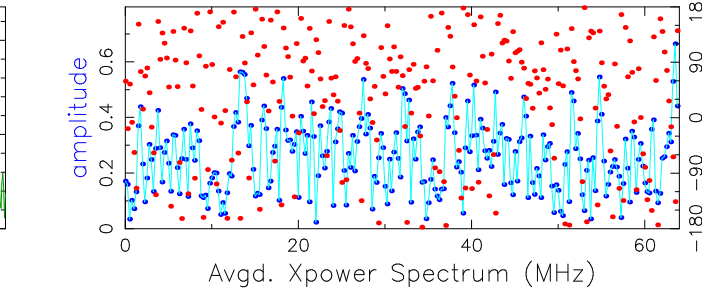
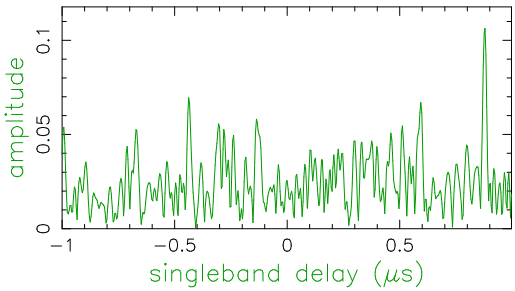
	RMS	Theor.	Amplitude	0.115 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	48.8	42.0	Search (2048X32)	0.112	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	59.9	73.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	32.1	24.8	Inc. seg. avg.	0.118	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	31.1	43.2	Inc. frq. avg.	0.117	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

n: az 94.6 el 35.9 pa -52.3 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -9009.353 982.699 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/nY..190POF Output file: /Exps/c201c/v1/1234/No0032/nY.W.183.190POF



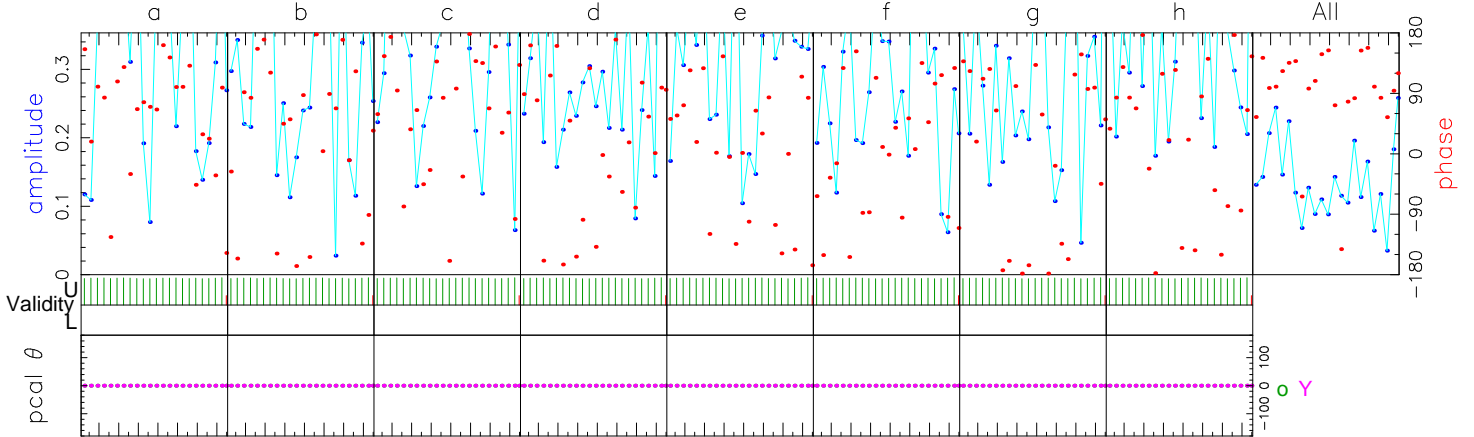
Fringe quality 0

SNR 6.0
Int time 422.547
Amp 0.118
Phase 112.5
PFD 3.4e-01
Delays (us)
SBD 0.877550
MBD 0.001674
Fringe rate (Hz)
-0.458765
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210558
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec

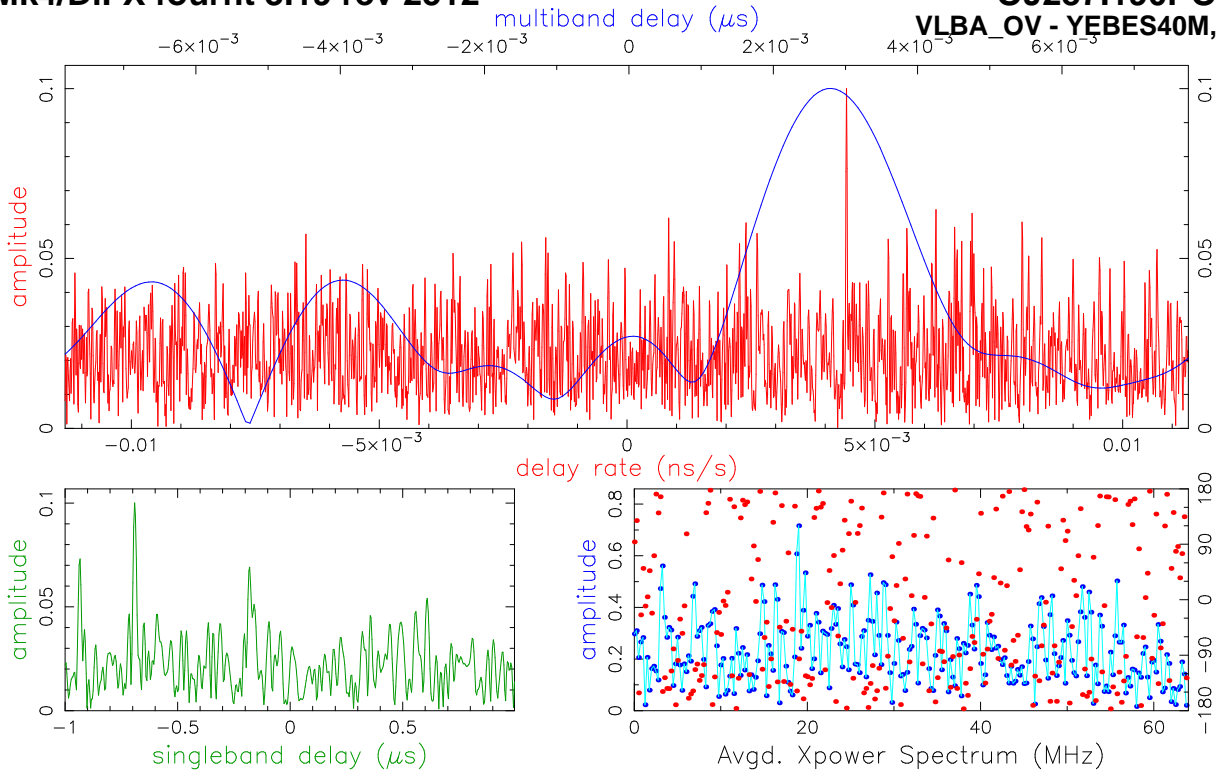


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.19954992579E+04	Apriori delay (usec)	-1.19963759323E+04	Resid mbdelay (usec)	1.67439E-03	+/-	1.8E-04
Sband delay (usec)	-1.19954983823E+04	Apriori clock (usec)	8.1195240E+08	Resid sbdelay (usec)	8.77550E-01	+/-	1.4E-03
Phase delay (usec)	-1.19963759286E+04	Apriori clockrate (us/s)	-1.8999993E-08	Resid phdelay (usec)	3.62933E-06	+/-	6.1E-07
Delay rate (us/s)	1.71881714791E+00	Apriori rate (us/s)	1.71882247372E+00	Resid rate (us/s)	-5.32581E-06	+/-	2.4E-09
Total phase (deg)	-177.8	Apriori accel (us/s/s)	6.21038286893E-05	Resid phase (deg)	112.5	+/-	19.0

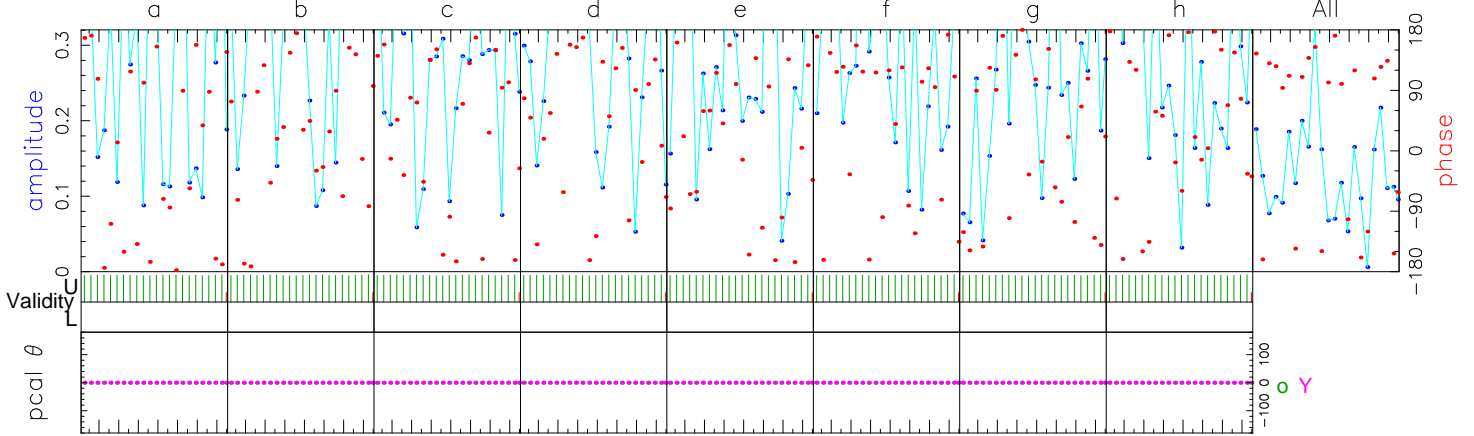
ph/seg (deg)	53.4	Theor.	45.5	Amplitude	0.118 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	56.5	Search (2048X32)	0.105	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	26.1	Inc. seg. avg.	0.113	Inc. frq. avg.	0.111	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	40.4	Inc. frq. avg.	0.111			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

o: az 76.1 el 15.1 pa -55.4 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10372.817 1463.890 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/oY..190POF Output file: /Exps/c201c/v1/1234/No0032/oY.W.169.190POF



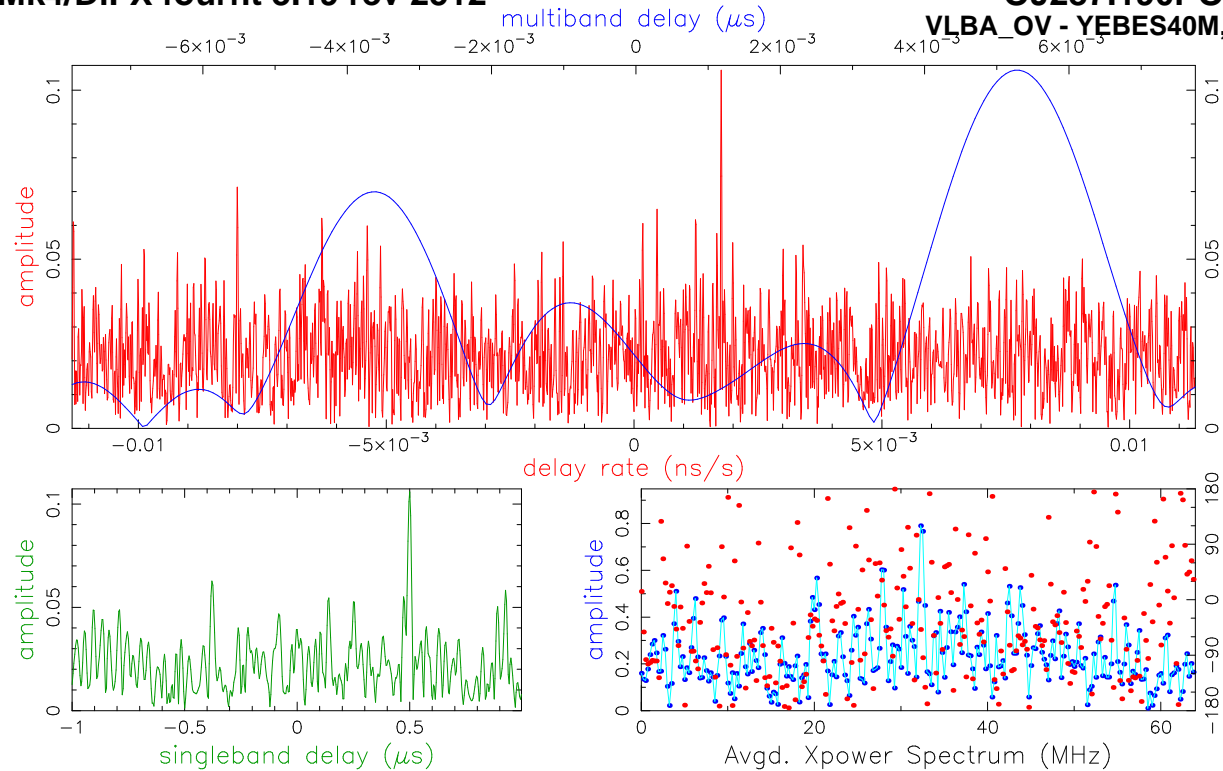
Fringe quality 0
SNR 5.6
Int time 422.546
Amp 0.107
Phase 143.5
PFD 9.9e-01
Delays (us)
SBD -0.690821
MBD 0.002811
Fringe rate (Hz) 0.382089
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210602
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



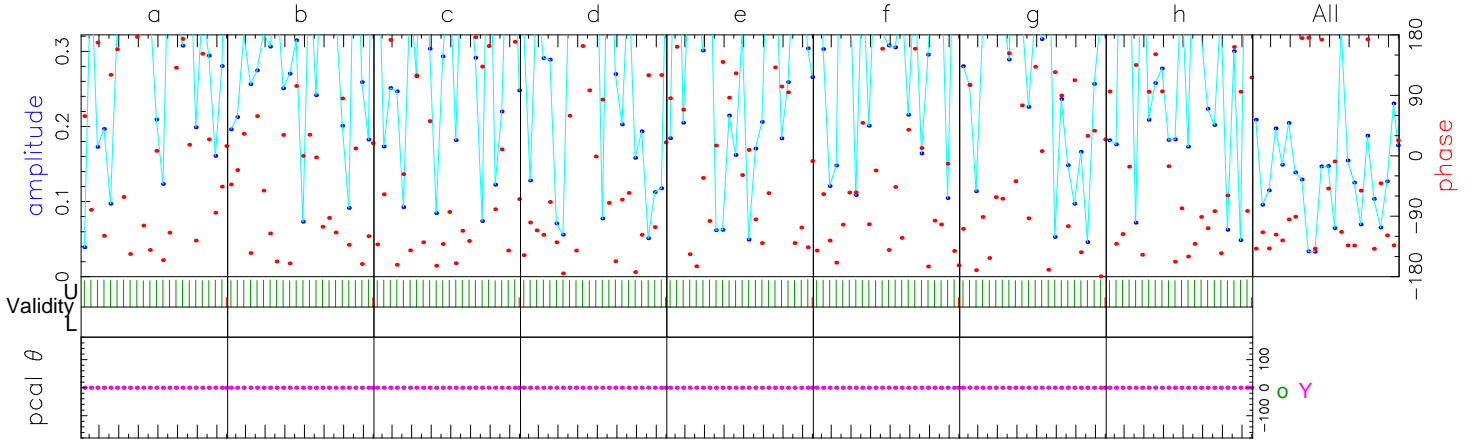
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	170.9	89.5	129.0	131.2	127.5	147.0	174.8	144.5	Phase	143.5
	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1
	400.3	211.7	18.1	1.5	153.4	439.0	233.4	160.9	Sbd box	80.1
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.19970606208E+04		Apriori delay (usec)		-1.19963759323E+04		Resid mbdelay (usec)		2.81146E-03	+/- 1.9E-04
Sband delay (usec)	-1.19970667535E+04		Apriori clock (usec)		8.1195240E+08		Resid sbdelay (usec)		-6.90821E-01	+/- 1.5E-03
Phase delay (usec)	-1.19963759277E+04		Apriori clockrate (us/s)		-1.8999993E-08		Resid phdelay (usec)		4.62611E-06	+/- 6.6E-07
Delay rate (us/s)	1.71882690940E+00		Apriori rate (us/s)		1.71882247372E+00		Resid rate (us/s)		4.43567E-06	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		6.21038286893E-05		Resid phase (deg)		143.5	+/- 20.3

ph/seg (deg) 53.2 48.8 Amplitude 0.107 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 73.3 85.1 Search (2048X32) 0.096 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 29.6 28.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.9 50.2 Inc. seg. avg. 0.103 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 o: az 76.1 el 15.1 pa -55.4 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10372.817 1463.890 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/oY..190POF Output file: /Exps/c201c/v1/1234/No0032/oY.W.189.190POF simultaneous interpolator



Fringe quality 0
SNR 6.0
Int time 422.547
Amp 0.107
Phase -123.6
PFD 4.5e-01
Delays (us)
SBD 0.499200
MBD 0.005255
Fringe rate (Hz)
0.151793
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Yr:day # 16383
2020:202:063214
2020:202:210606
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec

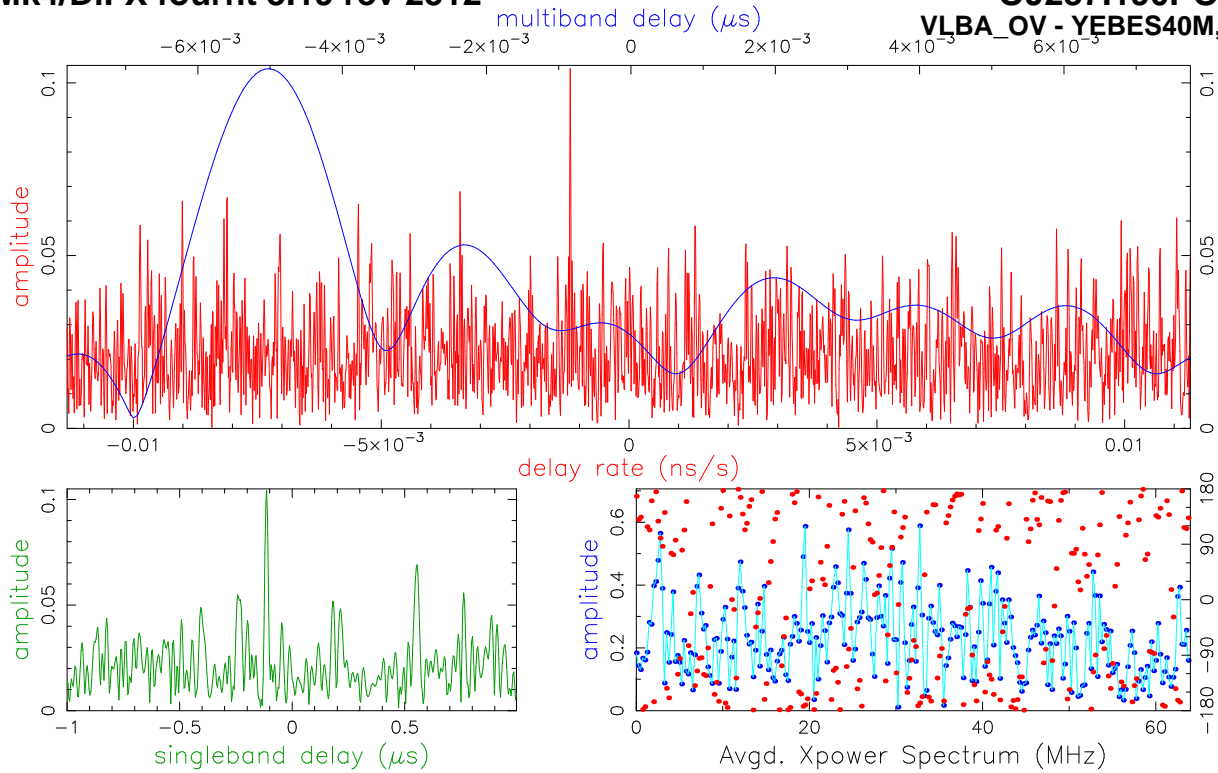


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-1.19958706777E+04	Apriori delay (usec)	-1.19963759323E+04	Resid mbdelay (usec)	5.25462E-03	+/-	1.8E-04
Sband delay (usec)	-1.19958767323E+04	Apriori clock (usec)	8.1195240E+00	Resid sbdelay (usec)	4.99200E-01	+/-	1.4E-03
Phase delay (usec)	-1.19963759363E+04	Apriori clockrate (us/s)	-1.8999993E-08	Resid phdelay (usec)	-3.98517E-06	+/-	6.2E-07
Delay rate (us/s)	1.71882423589E+00	Apriori rate (us/s)	1.71882247372E+00	Resid rate (us/s)	1.76217E-06	+/-	2.5E-09
Total phase (deg)	-53.9	Apriori accel (us/s/s)	6.21038286893E-05	Resid phase (deg)	-123.6	+/-	19.2

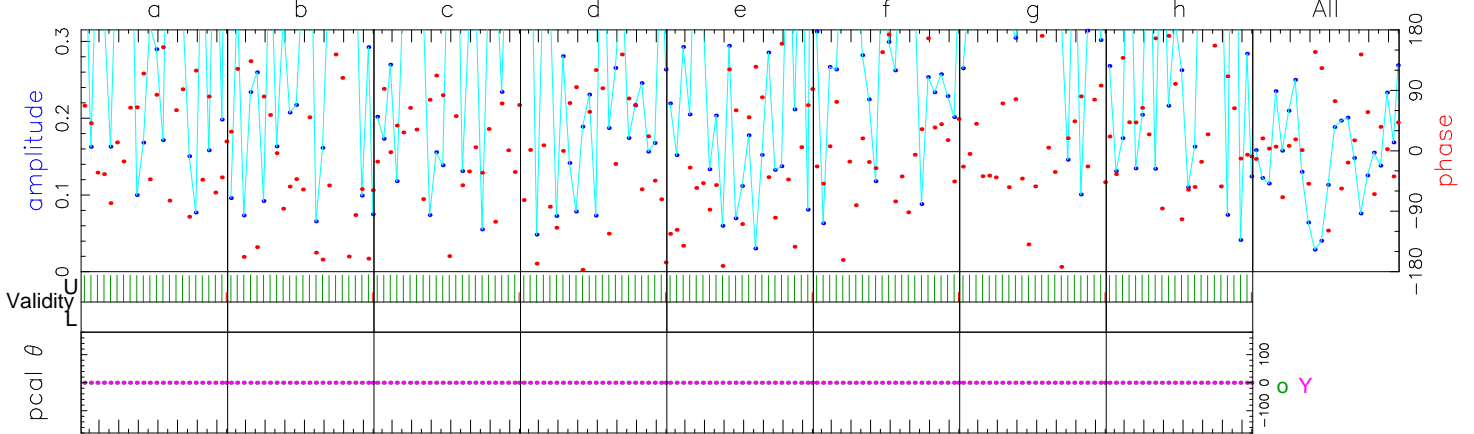
	RMS	Theor.	Amplitude	0.107 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
ph/seg (deg)	50.5	46.0	Search (2048X32)	0.104	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
amp/seg (%)	71.6	80.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	33.2	27.1	Inc. seg. avg.	0.107	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	48.5	47.3	Inc. frq. avg.	0.105	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00

o: az 76.1 el 15.1 pa -55.4 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10372.817 1463.890 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/oY..190POF Output file: /Exps/c201c/v1/1234/No0032/oY.W.203.190POF



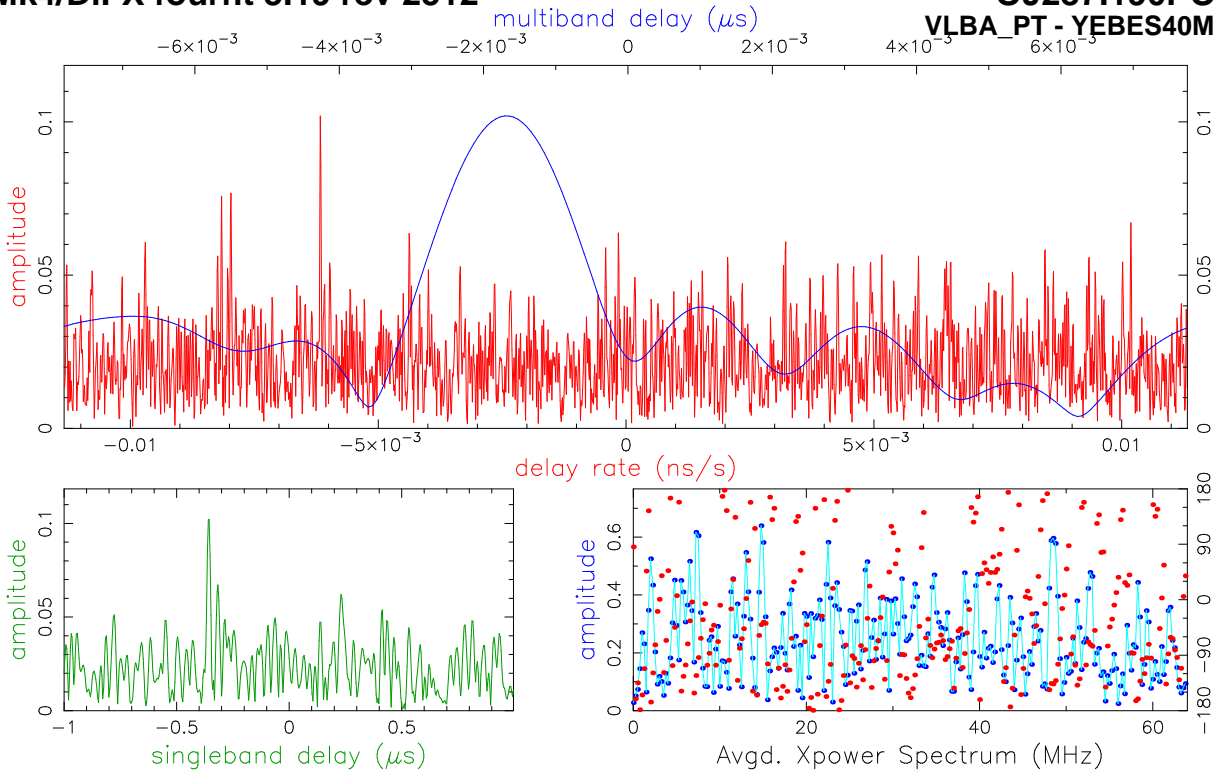
Fringe quality 0
SNR 5.9
Int time 422.546
Amp 0.105
Phase -1.2
PFD 6.5e-01
Delays (us)
SBD -0.114126
MBD -0.005038
Fringe rate (Hz)
-0.101991
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210610
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



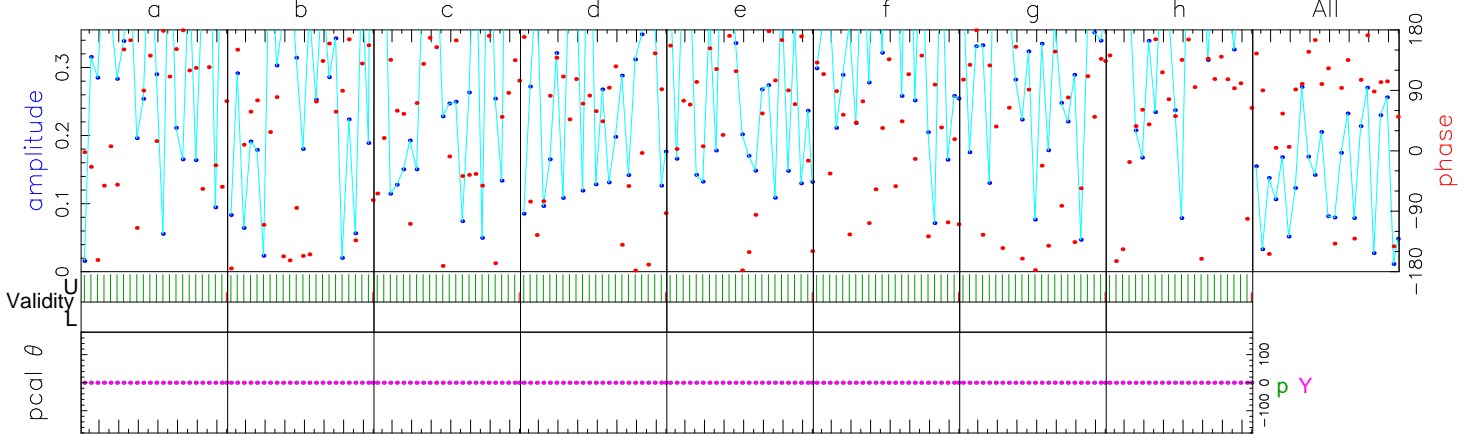
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	3.2	-116.1	14.8	-2.4	-50.4	-22.4	0.2	21.4	Phase	-1.2
	0.2	0.0	0.2	0.1	0.1	0.1	0.2	0.1	Ampl.	0.1
	229.9	72.3	227.6	311.3	365.8	197.9	227.7	12.6	Sbd box	227.8
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.19964903455E+04		Apriori delay (usec)		-1.19963759323E+04		Resid mbdelay (usec)		-5.03825E-03	+/- 1.8E-04
Sband delay (usec)	-1.19964900583E+04		Apriori clock (usec)		8.1195240E+00		Resid sbdelay (usec)		-1.14126E-01	+/- 1.5E-03
Phase delay (usec)	-1.19963759323E+04		Apriori clockrate (us/s)		-1.8999993E-08		Resid phdelay (usec)		-3.75047E-08	+/- 6.3E-07
Delay rate (us/s)	1.71882128971E+00		Apriori rate (us/s)		1.71882247372E+00		Resid rate (us/s)		-1.18402E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		6.21038286893E-05		Resid phase (deg)		-1.2	+/- 19.5

ph/seg (deg) 66.6 46.7 Search (2048X32) 0.102 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 72.9 81.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 53.0 27.6 Inc. seg. avg. 0.113 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 50.7 48.1 Inc. frq. avg. 0.103 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
o: az 76.1 el 15.1 pa -55.4 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10372.817 1463.890 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/oY..190POF Output file: /Exps/c201c/v1/1234/No0032/oY.W.219.190POF



Fringe quality 0
SNR 5.9
Int time 433.400
Amp 0.118
Phase 119.4
PFD 5.0e-01
Delays (us)
SBD -0.357373
MBD -0.001640
Fringe rate (Hz)
-0.532089
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210558
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec

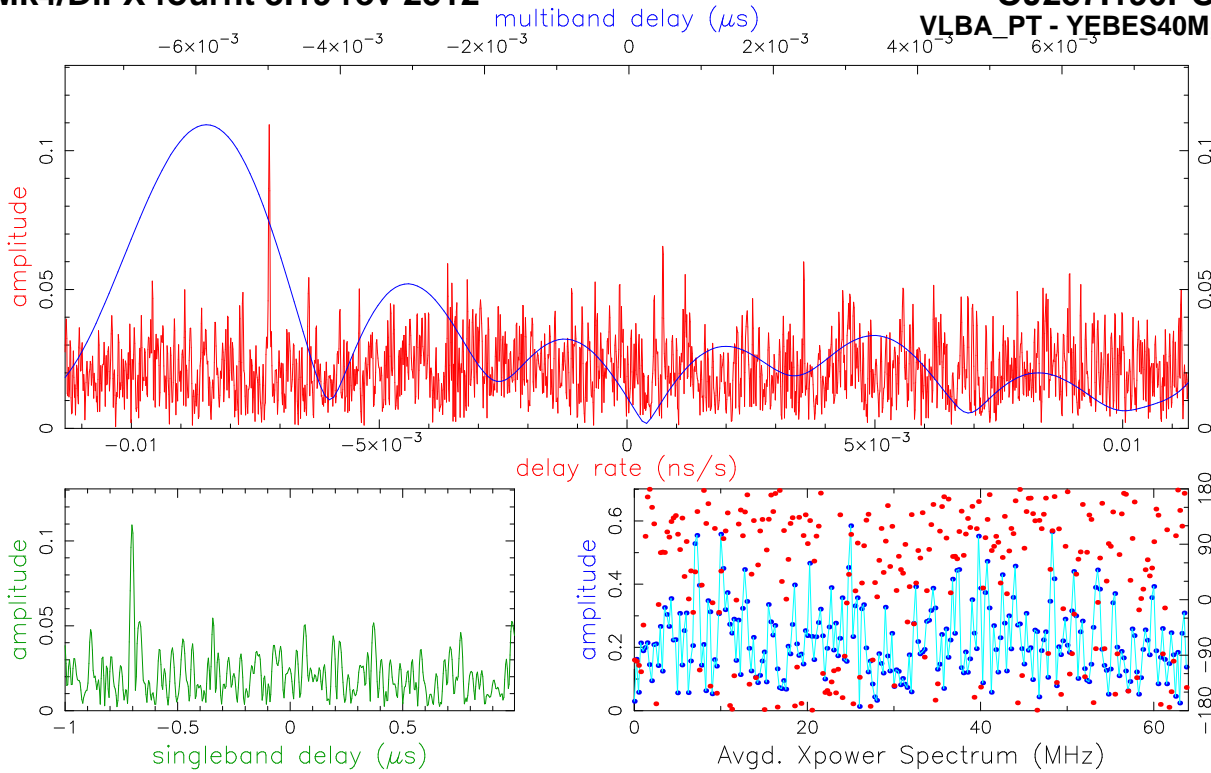


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	118.1	146.5	120.9	118.2	111.5	61.7	126.9	128.1	Phase	119.4
	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	Ampl.	0.1
	108.0	17.1	27.7	361.4	3.8	362.0	116.5	165.8	Sbd box	165.5
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-9.36525591243E+03	Apriori delay (usec)	-9.36489489710E+03	Resid mbdelay (usec)	-1.64033E-03	+/-	1.8E-04
Sband delay (usec)	-9.36525226985E+03	Apriori clock (usec)	5.3110733E+00	Resid sbdelay (usec)	-3.57373E-01	+/-	1.4E-03
Phase delay (usec)	-9.36489489325E+03	Apriori clockrate (us/s)	-1.6000005E-08	Resid phdelay (usec)	3.85052E-06	+/-	6.2E-07
Delay rate (us/s)	1.72417019744E+00	Apriori rate (us/s)	1.72417637447E+00	Resid rate (us/s)	-6.17703E-06	+/-	2.5E-09
Total phase (deg)	-37.6	Apriori accel (us/s/s)	4.64982039436E-05	Resid phase (deg)	119.4	+/-	19.3

ph/seg (deg)	60.9	RMS	46.2	Theor.	46.2	Amplitude	0.118 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	85.1	60.9	46.2	46.2	46.2	Search (2048X32)	0.100	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	SampCntNorm:	enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	26.7	85.1	80.6	80.6	80.6	Interp.	0.000	Bits/sample:	2x2	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	40.5	26.7	27.2	27.2	27.2	Inc. seg. avg.	0.124	Data rate (Mb/s):	2048	nlags:	256	ion window (TEC)	0.00	0.00
	40.5	40.5	47.5	47.5	47.5	Inc. frq. avg.	0.111			t_cohere	infinite			

p: az 80.5 el 22.5 pa -60.3 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10430.856 672.631 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/pY..190POF Output file: /Exps/c201c/v1/1234/No0032/pY.W.172.190POF

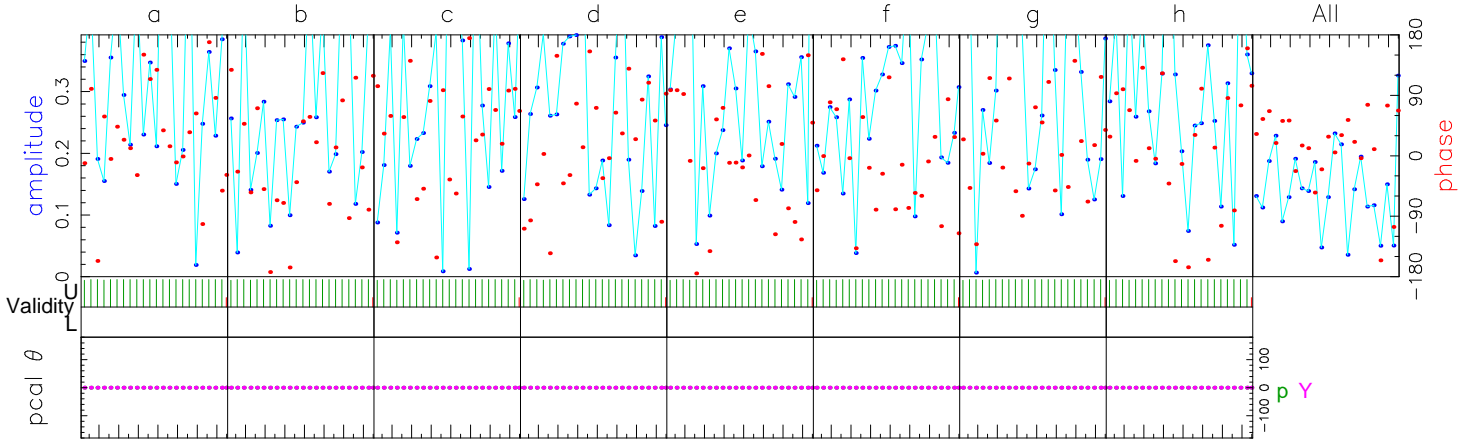


Fringe quality 0

SNR 6.3
Int time 433.400
Amp 0.131
Phase 23.4
PFD 1.0e-01
Delays (us)
SBD -0.702156
MBD -0.005837
Fringe rate (Hz)
-0.622760
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

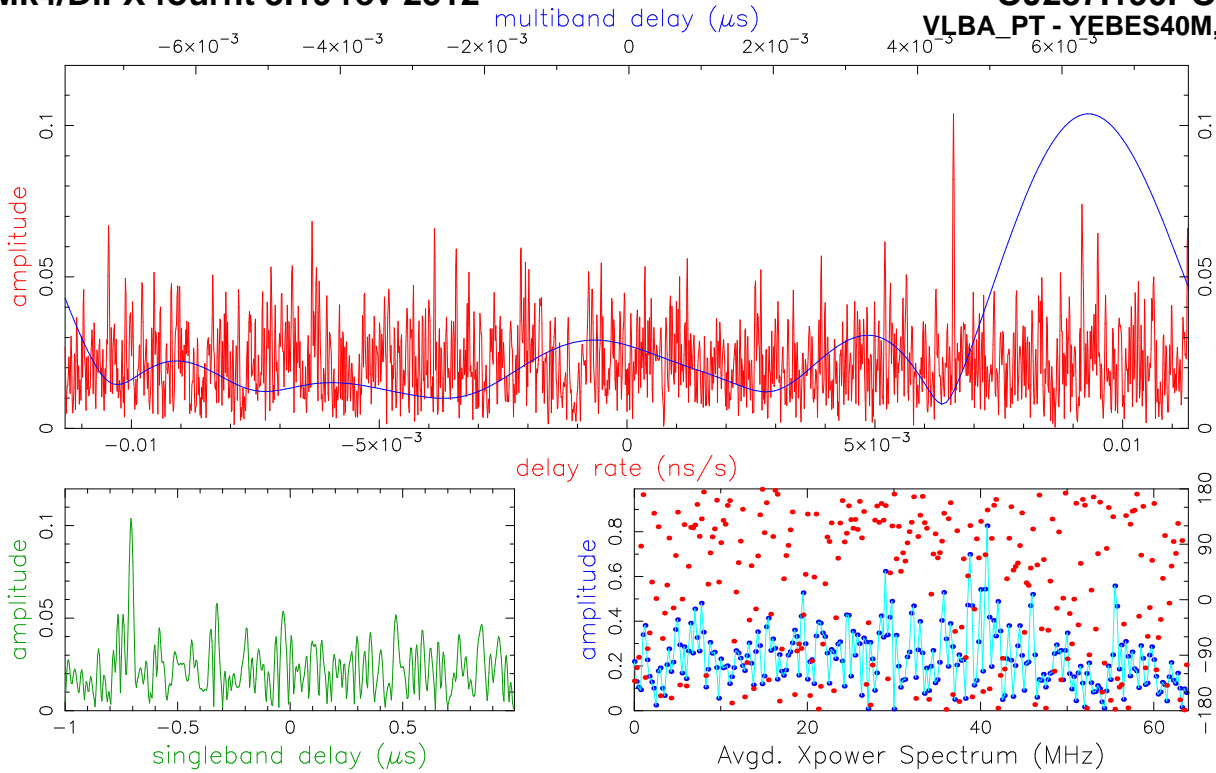
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210602
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



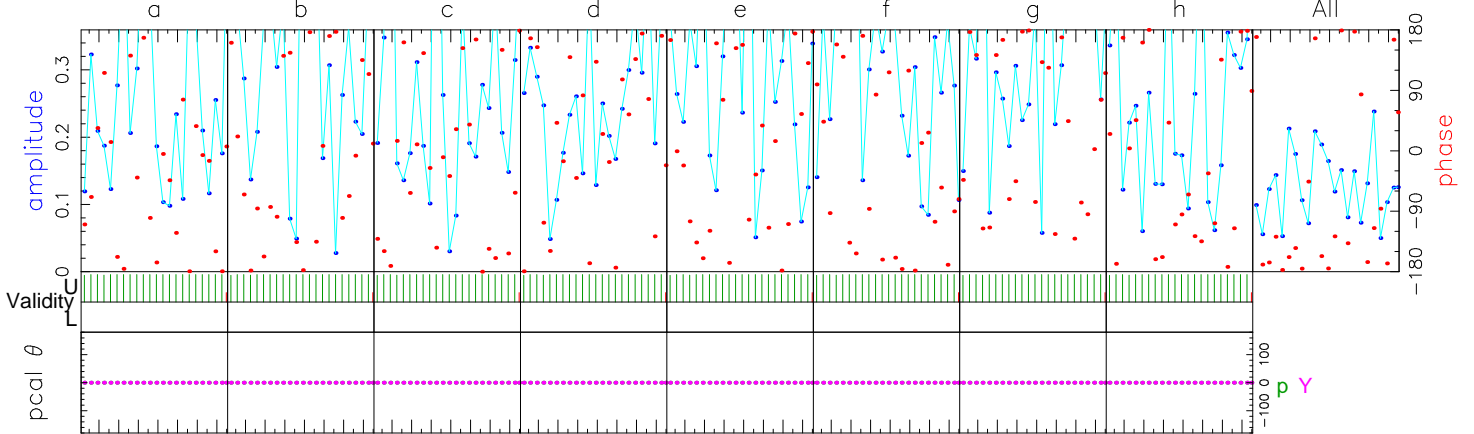
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-9.36560385913E+03									
Sband delay (usec)	-9.36559705310E+03									
Phase delay (usec)	-9.36489489635E+03									
Delay rate (us/s)	1.72416914485E+00									
Total phase (deg)			-133.7							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
pcal mode										
PC period (AP's)										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

ph/seg (deg) 56.8 43.9 Search (2048X32) 0.108 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 62.1 76.6 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 26.3 25.9 Inc. seg. avg. 0.128 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 26.5 45.2 Inc. frq. avg. 0.128 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 p: az 80.5 el 22.5 pa -60.3 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10430.856 672.631 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/pY..190POF Output file: /Exps/c201c/v1/1234/No0032/pY.W.191.190POF



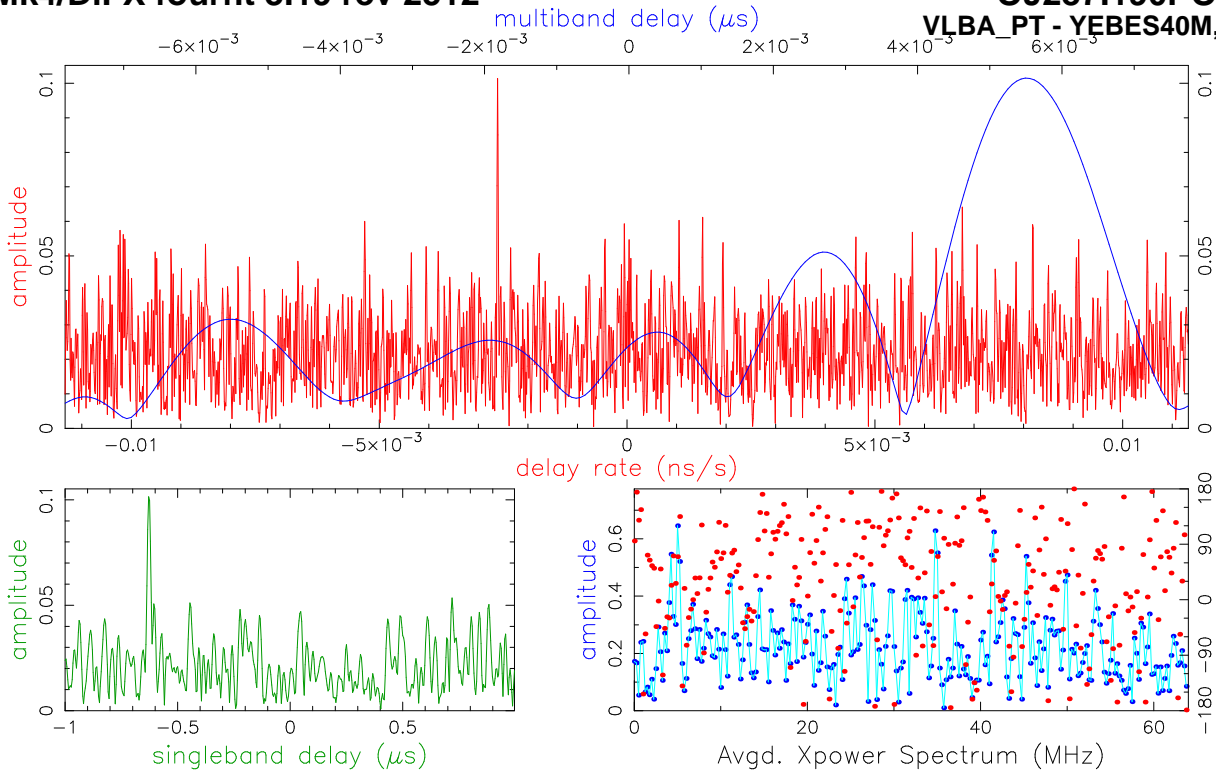
Fringe quality 0
SNR 5.9
Int time 433.400
Amp 0.120
Phase -161.4
PFD 5.8e-01
Delays (us)
SBD -0.706837
MBD 0.006370
Fringe rate (Hz) 0.567863
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210607
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-146.3	-153.8	-158.2	143.7	-151.7	-169.5	-144.2	-161.1	Phase	-161.4
	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.1	Ampl.	0.1
	341.8	174.8	73.5	473.4	171.4	292.4	472.9	490.3	Sbd box	76.0
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-9.36560727664E+03		Apriori delay (usec)		-9.36489489710E+03		Resid mbdelay (usec)		6.37046E-03	+/- 1.8E-04
Sband delay (usec)	-9.36560173435E+03		Apriori clock (usec)		5.3110733E+00		Resid sbdelay (usec)		-7.06837E-01	+/- 1.5E-03
Phase delay (usec)	-9.36489490230E+03		Apriori clockrate (us/s)		-1.6000005E-08		Resid phdelay (usec)		-5.20372E-06	+/- 6.2E-07
Delay rate (us/s)	1.72418296680E+00		Apriori rate (us/s)		1.72417637447E+00		Resid rate (us/s)		6.59232E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		4.64982039436E-05		Resid phase (deg)		-161.4	+/- 19.4

ph/seg (deg) 46.8 46.5 Search (2048X32) 0.098 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 55.9 81.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 25.1 27.4 Inc. seg. avg. 0.111 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 26.1 47.8 Inc. frq. avg. 0.114 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
p: az 80.5 el 22.5 pa -60.3 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10430.856 672.631 ion window (TEC) 0.00 0.00 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/pY..190POF Output file: /Exps/c201c/v1/1234/No0032/pY.W.208.190POF

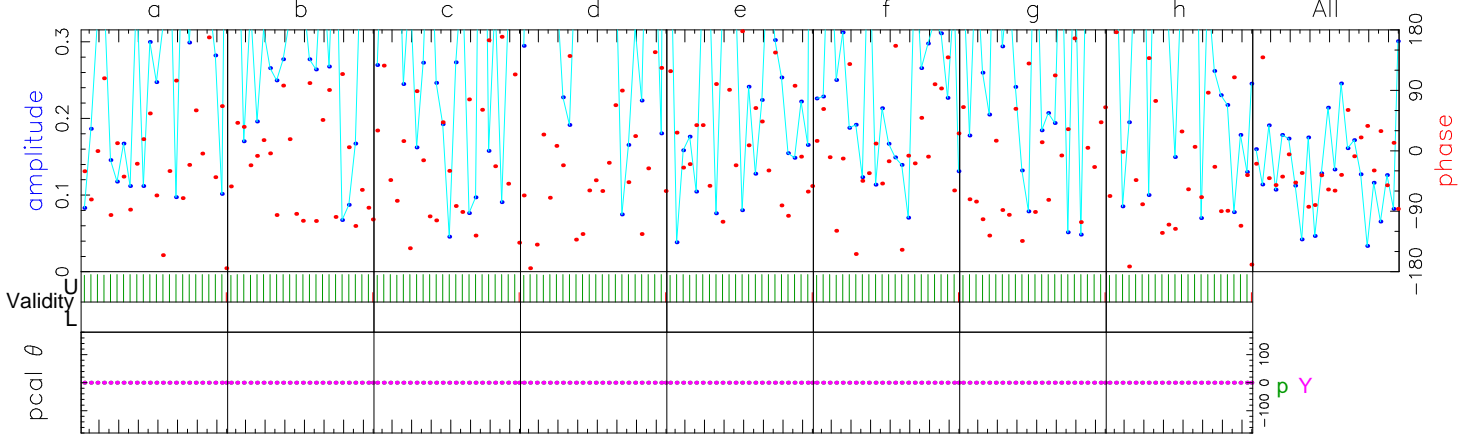


Fringe quality 0

SNR 5.9
Int time 433.400
Amp 0.105
Phase -31.4
PFD 6.9e-01
Delays (us)
SBD -0.627335
MBD 0.005555
Fringe rate (Hz)
-0.225463
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210611
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



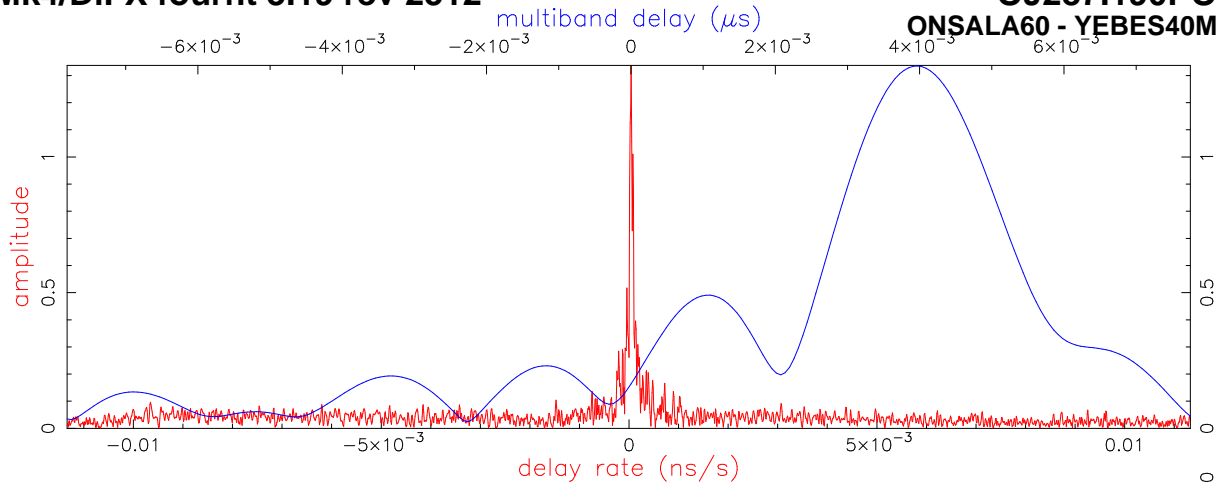
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-19.3	-36.7	-36.2	-55.5	-2.9	-2.0	-22.9	-59.9	Phase	-31.4
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	283.4	232.3	414.3	341.9	29.2	439.1	479.8	203.2	Sbd box	96.4
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-9.36552996731E+03	Apriori delay (usec)	-9.36489489710E+03	Resid mbdelay (usec)	5.55479E-03	+/-	1.9E-04
Sband delay (usec)	-9.36552223210E+03	Apriori clock (usec)	5.3110733E+00	Resid sbdelay (usec)	-6.27335E-01	+/-	1.5E-03
Phase delay (usec)	-9.36489489811E+03	Apriori clockrate (us/s)	-1.6000005E-08	Resid phdelay (usec)	-1.01365E-06	+/-	6.3E-07
Delay rate (us/s)	1.72417375707E+00	Apriori rate (us/s)	1.72417637447E+00	Resid rate (us/s)	-2.61741E-06	+/-	2.5E-09
Total phase (deg)	-188.5	Apriori accel (us/s/s)	4.64982039436E-05	Resid phase (deg)	-31.4	+/-	19.6

ph/seg (deg)	52.1	Theor.	46.9	Amplitude	0.105 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	64.3	Search (2048X32)	0.097	Search	0.097	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	23.6	Inc. seg. avg.	0.103	Inc. seg. avg.	0.103	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	26.2	Inc. frq. avg.	0.099	Inc. frq. avg.	0.099	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	
						nlags:	256	t_cohere	infinite	

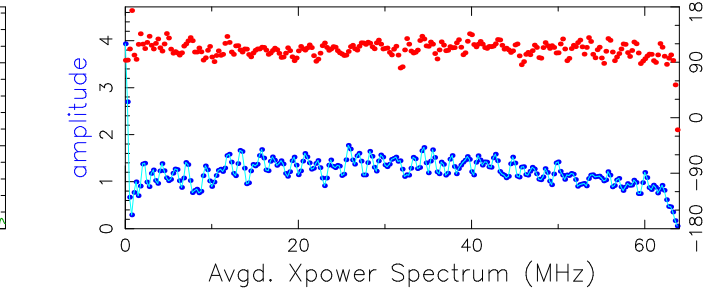
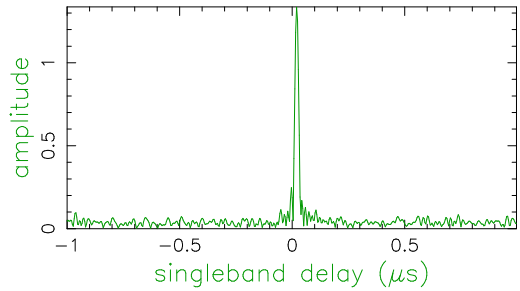
p: az 80.5 el 22.5 pa -60.3 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10430.856 672.631 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/pY..190POF Output file: /Exps/c201c/v1/1234/No0032/pY.W.223.190POF



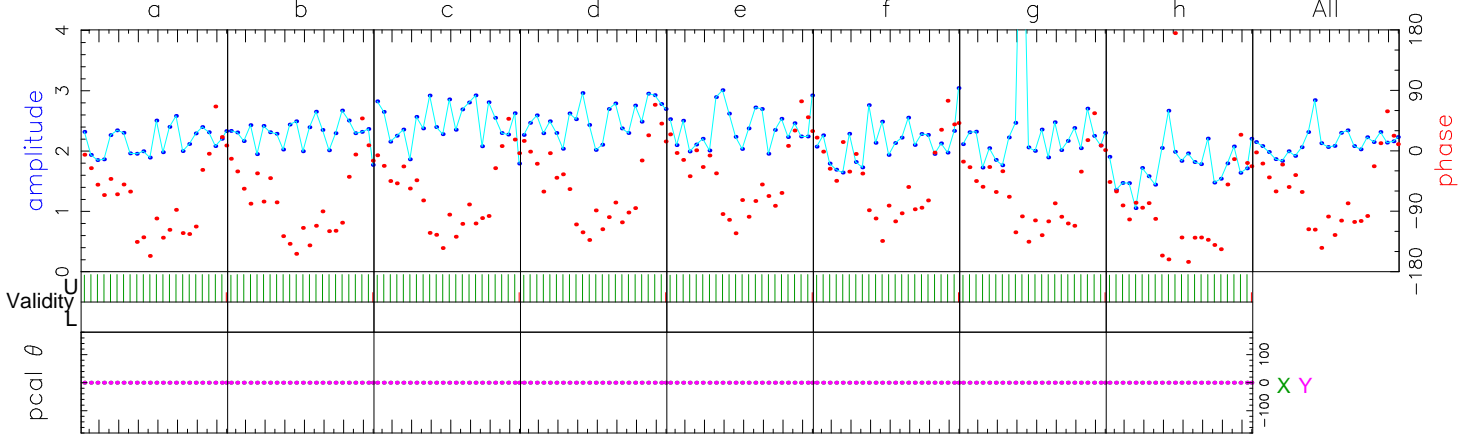
Fringe quality 3

SNR 76.2
 Int time 434.198
 Amp 1.337
 Phase -63.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.020087
 MBD 0.003977
 Fringe rate (Hz)
 0.003874
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210601
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



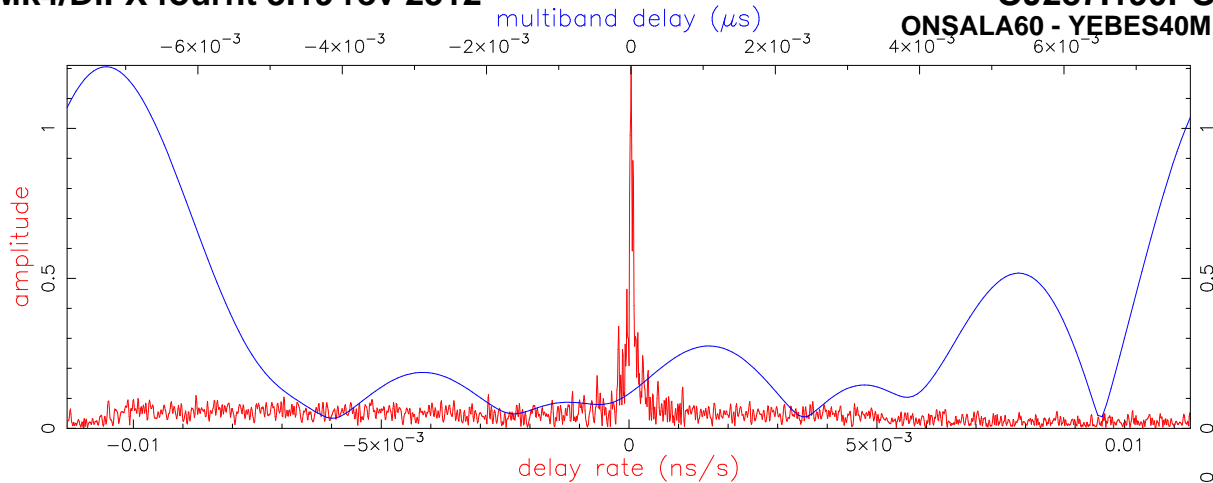
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-72.2	-77.1	-65.9	-52.5	-37.2	-43.6	-68.6	-105.5	Phase	-63.9
	1.3	1.5	1.6	1.4	1.5	1.3	1.6	1.1	Ampl.	1.4
	262.1	262.4	261.9	262.3	262.0	262.0	262.0	260.8	Sbd box	262.1
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-4.11602583671E+03	Apriori delay (usec)	-4.11604543871E+03	Resid mbdelay (usec)	3.97700E-03	+/-	1.4E-05
Sband delay (usec)	-4.11602535146E+03	Apriori clock (usec)	2.8811340E+01	Resid sbdelay (usec)	2.00872E-02	+/-	1.1E-04
Phase delay (usec)	-4.11604544078E+03	Apriori clockrate (us/s)	3.0800002E-07	Resid phdelay (usec)	-2.06054E-06	+/-	4.8E-08
Delay rate (us/s)	8.28837863667E-04	Apriori rate (us/s)	8.28792895058E-04	Resid rate (us/s)	4.49686E-08	+/-	1.9E-10
Total phase (deg)	-96.6	Apriori accel (us/s/s)	2.94935733339E-05	Resid phase (deg)	-63.9	+/-	1.5

ph/seg (deg)	53.6	Theor.	3.6	Amplitude	1.331 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	62.2		6.3	Search (2048X32)	1.331	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	23.3		2.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	14.1		3.7	Inc. seg. avg.	2.140	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	1.409	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

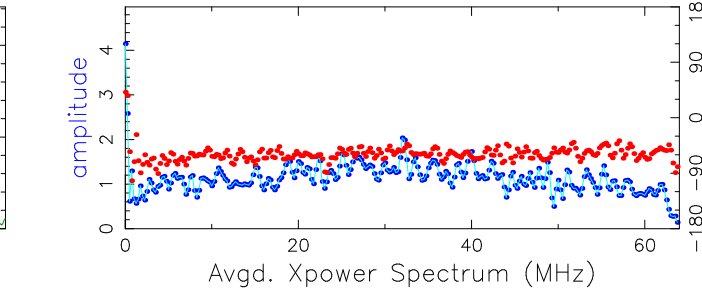
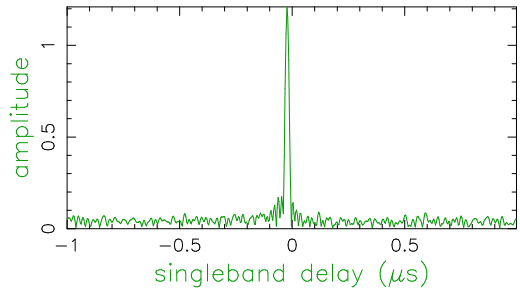
X: az 239.7 el 40.6 pa 29.7 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) 41.506 2450.281 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/XY..190POF Output file: /Exps/c201c/v1/1234/No0032/XY.W.182.190POF



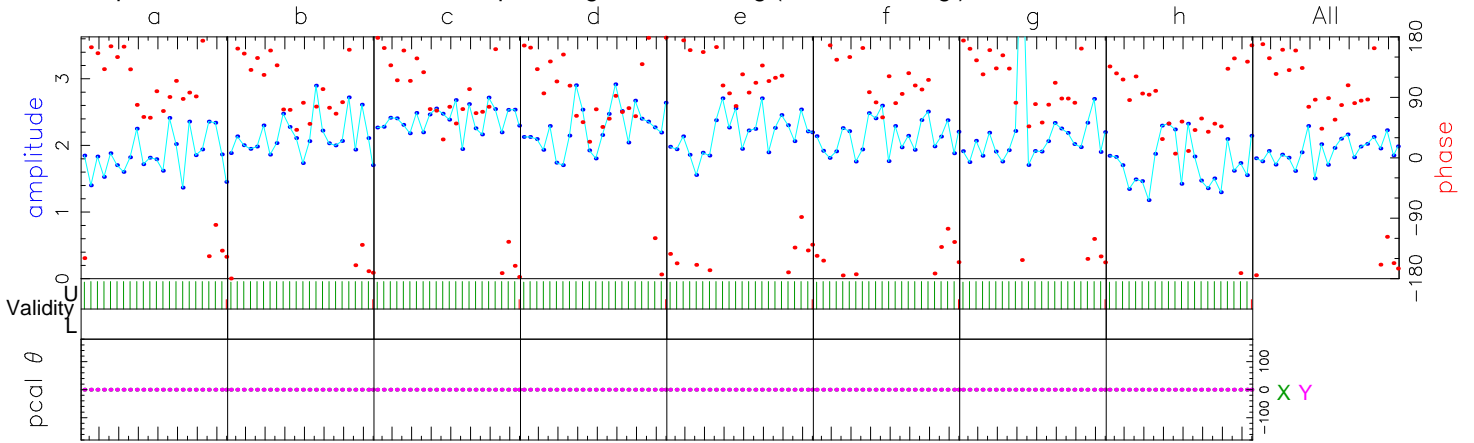
Fringe quality 3

SNR 69.0
Int time 434.198
Amp 1.210
Phase 125.3
PFD 0.0e+00
Delays (us)
SBD -0.022576
MBD -0.007247
Fringe rate (Hz)
0.003921
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201c
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210606
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec

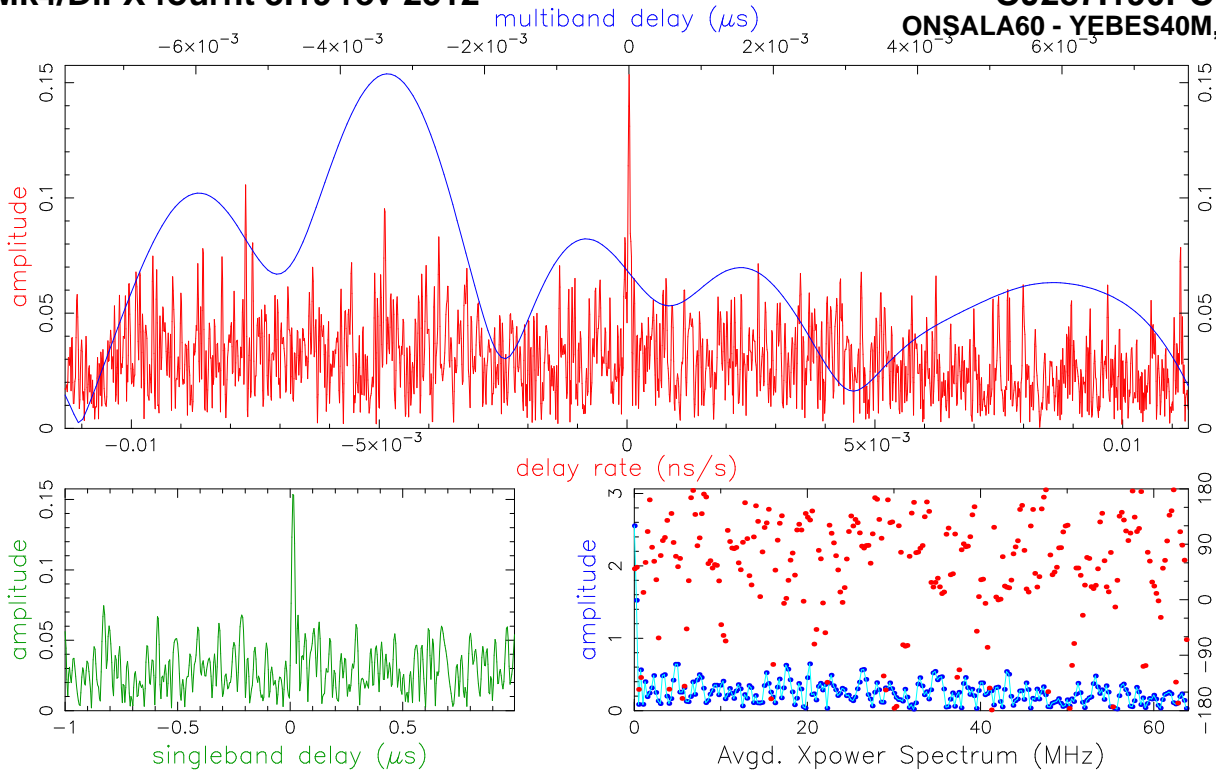


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks

Group delay (usec)(sbd)	-4.11606831105E+03	Apriori delay (usec)	-4.11604543871E+03	Resid mbdelay (usec)	-7.24734E-03	+/-	1.6E-05
Sband delay (usec)	-4.11606801496E+03	Apriori clock (usec)	2.8811340E+01	Resid sbdelay (usec)	-2.25763E-02	+/-	1.2E-04
Phase delay (usec)	-4.11604543467E+03	Apriori clockrate (us/s)	3.0800002E-07	Resid phdelay (usec)	4.04038E-06	+/-	5.4E-08
Delay rate (us/s)	8.28838413508E-04	Apriori rate (us/s)	8.28792895058E-04	Resid rate (us/s)	4.55185E-08	+/-	2.1E-10
Total phase (deg)	92.6	Apriori accel (us/s/s)	2.94935733339E-05	Resid phase (deg)	125.3	+/-	1.7

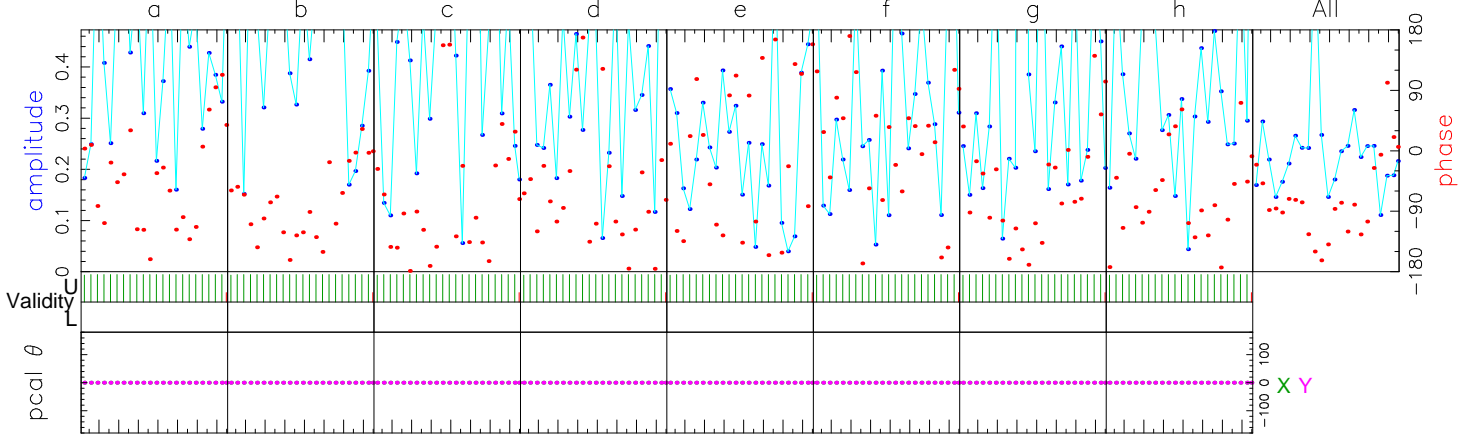
ph/seg (deg)	52.4	RMS	4.0	Theor.	4.0	Amplitude	1.210 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	60.5	Search (2048X32)	1.200	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	25.3	Inc. seg. avg.	1.913	Inc. frq. avg.	1.292	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	12.5	Inc. frq. avg.	1.292	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags:	256	t_cohere	infinite

X: az 239.7 el 40.6 pa 29.7 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) 41.506 2450.281 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/XY..190POF Output file: /Exps/c201c/v1/1234/No0032/XY.W.200.190POF



Fringe quality 9
SNR 9.0
Int time 434.198
Amp 0.158
Phase -92.6
PFD 1.1e-10
Delays (us)
SBD 0.013602
MBD -0.003279
Fringe rate (Hz) 0.003466
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210609
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	-67.7	-86.9	-121.2	-85.0	167.6	44.6	-120.0	-68.3		Phase	
	0.2	0.3	0.2	0.2	0.1	0.1	0.3	0.2		Ampl.	
	260.6	260.4	260.0	259.7	230.9	150.4	44.4	259.3		Sbd box	
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	
										Tracks	
Group delay (usec)(sbd)	-4.11603309308E+03					-4.11604543871E+03			Resid mbdelay (usec)	-3.27937E-03	+/- 1.2E-04
Sband delay (usec)	-4.11603183671E+03					2.8811340E+01			Resid sbdelay (usec)	1.36020E-02	+/- 9.6E-04
Phase delay (usec)	-4.11604544170E+03					3.0800002E-07			Resid phdelay (usec)	-2.98489E-06	+/- 4.1E-07
Delay rate (us/s)	8.28833126251E-04					8.28792895058E-04			Resid rate (us/s)	4.02312E-08	+/- 1.6E-09
Total phase (deg)			-125.3			2.94935733339E-05			Resid phase (deg)	-92.6	+/- 12.8

ph/seg (deg) 58.9 30.6
amp/seg (%) 81.5 53.4
ph/frq (deg) 72.6 18.1
amp/frq (%) 58.3 31.5

RMS Theor. Amplitude 0.158 +/- 0.018
Search (2048X32) 0.151
Interp. 0.000
Inc. seg. avg. 0.207
Inc. frq. avg. 0.182

pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MSamp/s): 128
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite

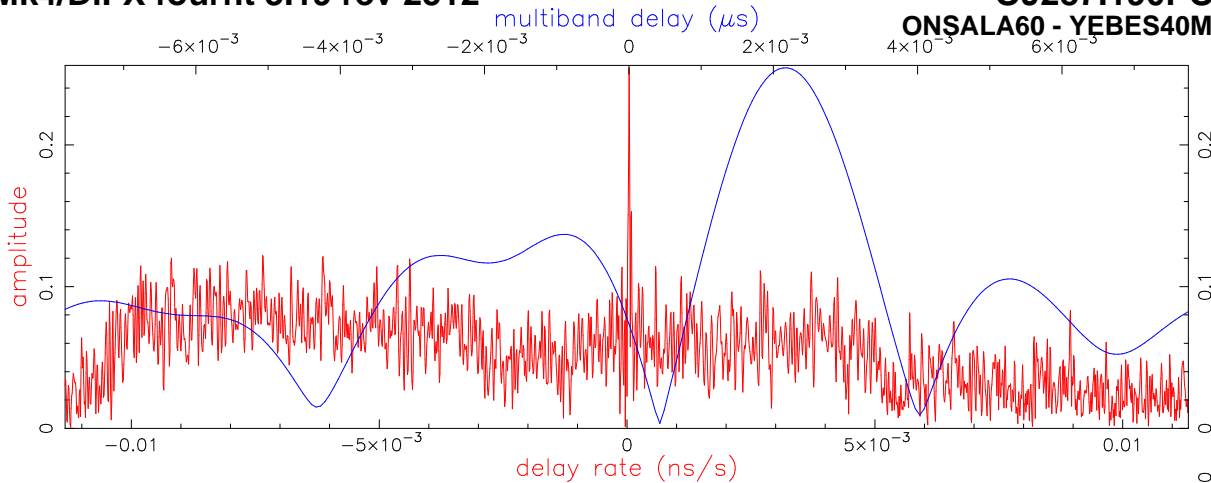
sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

X: az 239.7 el 40.6 pa 29.7 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) 41.506 2450.281 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/XY..190POF Output file: /Exps/c201c/v1/1234/No0032/XY.W.216.190POF

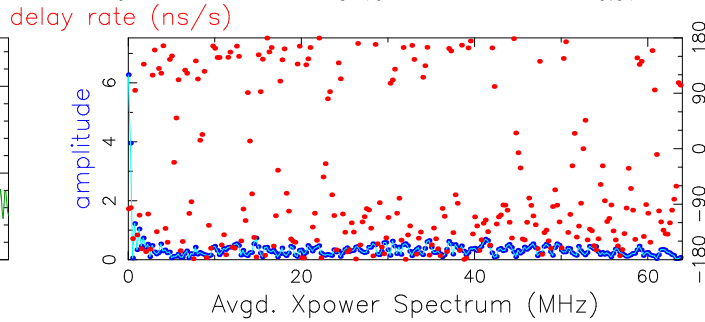
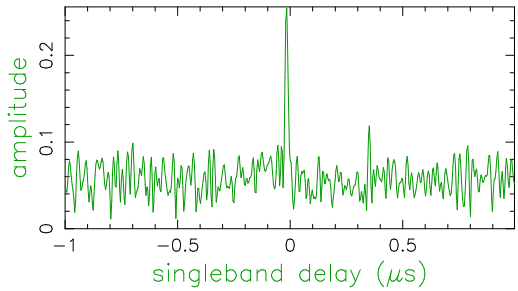
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, XY
ONŞALA60 - YEŞES40M, fgroup W, pol RL



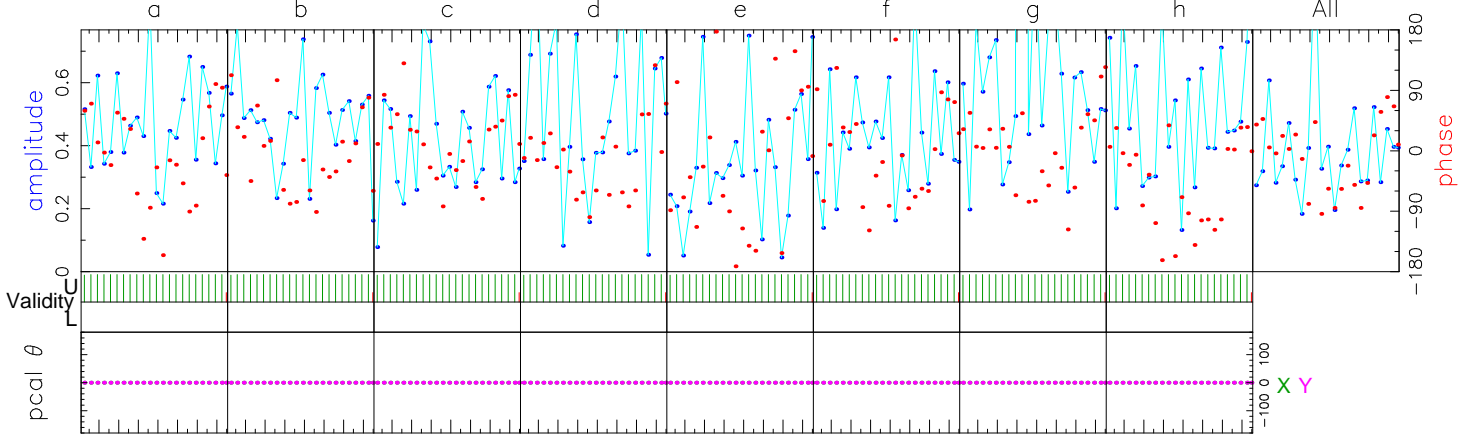
Fringe quality 7

SNR 14.6
Int time 434.198
Amp 0.256
Phase 0.7
PFD 2.0e-39
Delays (us)
SBD -0.016593
MBD 0.002137
Fringe rate (Hz)
0.003933
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



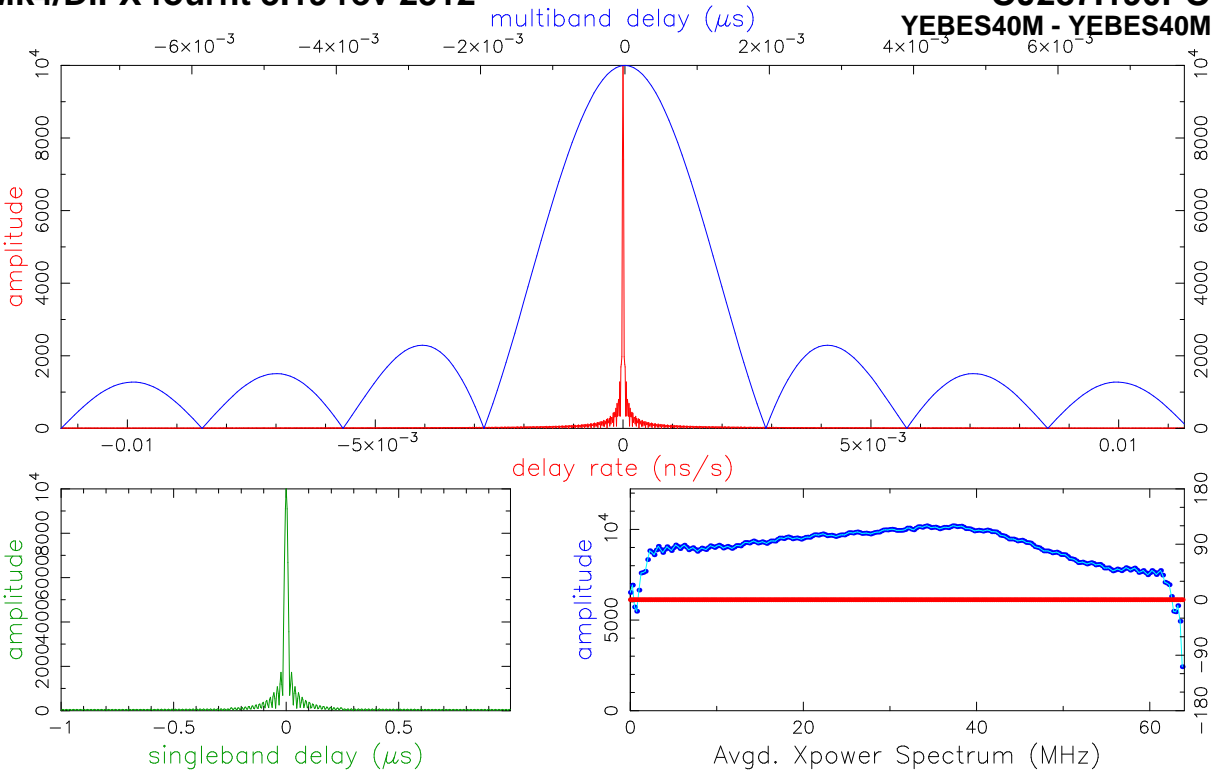
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210612
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-3.4	-3.5	16.5	-16.0	-124.7	-11.4	26.6	-42.3		0.7
	0.2	0.3	0.3	0.3	0.0	0.2	0.2	0.2		0.3
	253.8	253.1	253.8	253.3	246.2	252.7	252.2	252.3		252.8
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-4.11605892696E+03		Apriori delay (usec)		-4.11604543871E+03		Resid mbdelay (usec)		2.13675E-03	+/- 7.4E-05
Sband delay (usec)	-4.11606203146E+03		Apriori clock (usec)		2.8811340E+01		Resid sbdelay (usec)		-1.65928E-02	+/- 5.9E-04
Phase delay (usec)	-4.11604543869E+03		Apriori clockrate (us/s)		3.0800002E-07		Resid phdelay (usec)		2.14550E-08	+/- 2.5E-07
Delay rate (us/s)	8.28838555219E-04		Apriori rate (us/s)		8.28792895058E-04		Resid rate (us/s)		4.56602E-08	+/- 1.0E-09
Total phase (deg)			Apriori accel (us/s/s)		2.94935733339E-05		Resid phase (deg)		0.7	+/- 7.9

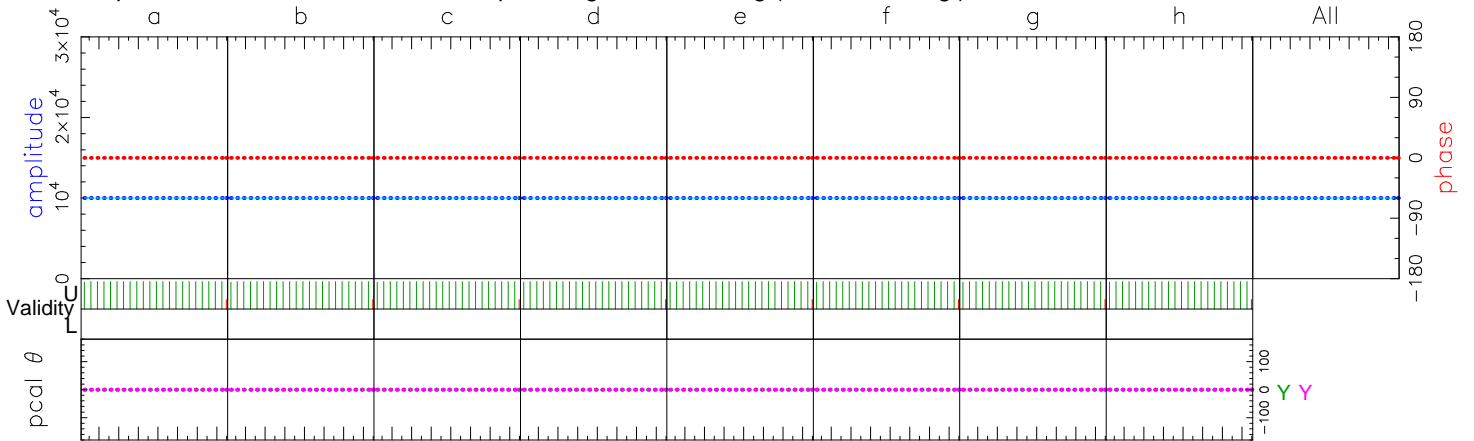
ph/seg (deg) 53.1 18.8 Search (2048X32) 0.248 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 84.5 32.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 56.2 11.1 Inc. seg. avg. 0.370 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 63.3 19.4 Inc. frq. avg. 0.277 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 X: az 239.7 el 40.6 pa 29.7 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) 41.506 2450.281 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/XY..190POF Output file: /Exps/c201c/v1/1234/No0032/XY.W.230.190POF



Fringe quality 9

SNR 569825.2
 Int time 434.198
 Amp 10000.000
 Phase -0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Yr:day 16383
 Start 2020:117
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210602
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

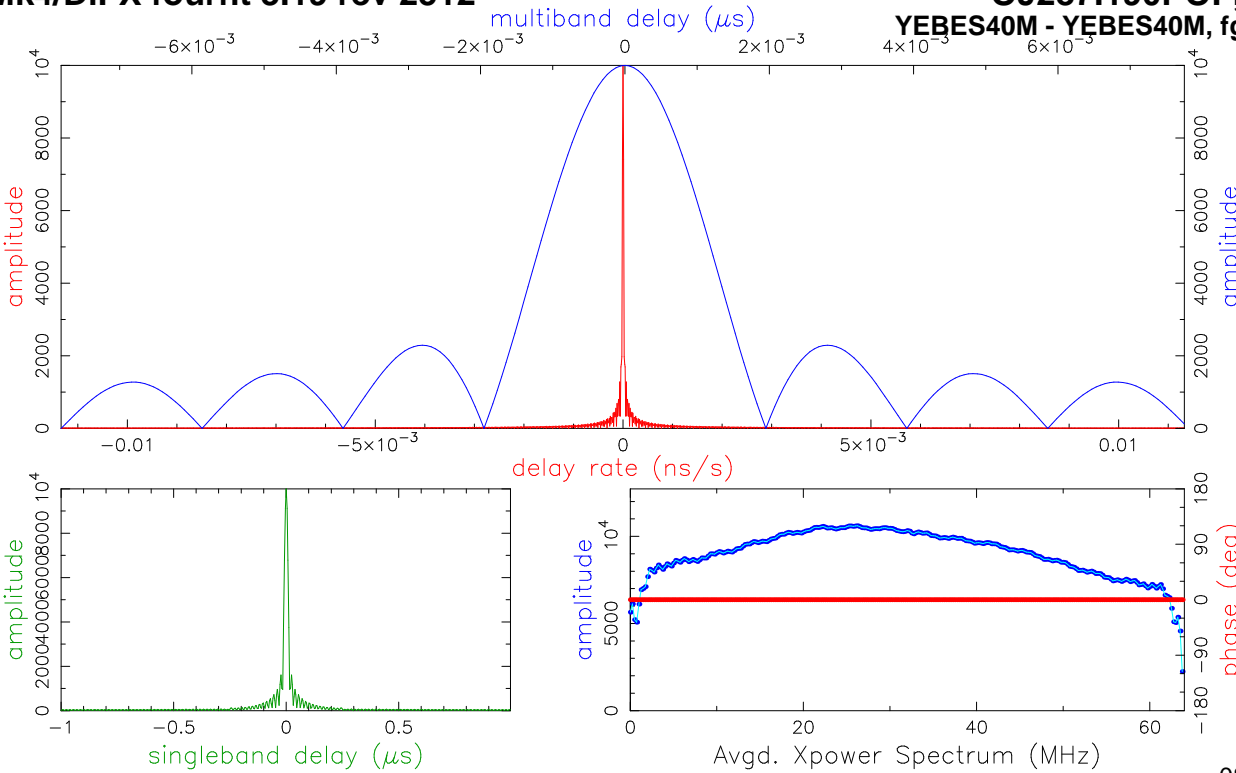
Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	1.9E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-08
Phase delay (usec)	-3.06262464208E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.06262E-20	+/-	6.5E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.6E-14
Total phase (deg)	-0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.0	+/-	0.0

ph/seg (deg)	0.0	RMS	Theor.	Amplitude	10000.000 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.0	0.0	0.0	Search (2048X32)	10000.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
Y: az 239.3 el 57.8 pa 43.9	Y: az 239.3 el 57.8 pa 43.9	u,v (fr/asec)	0.000 0.000	Inc. frq. avg.	10000.000	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

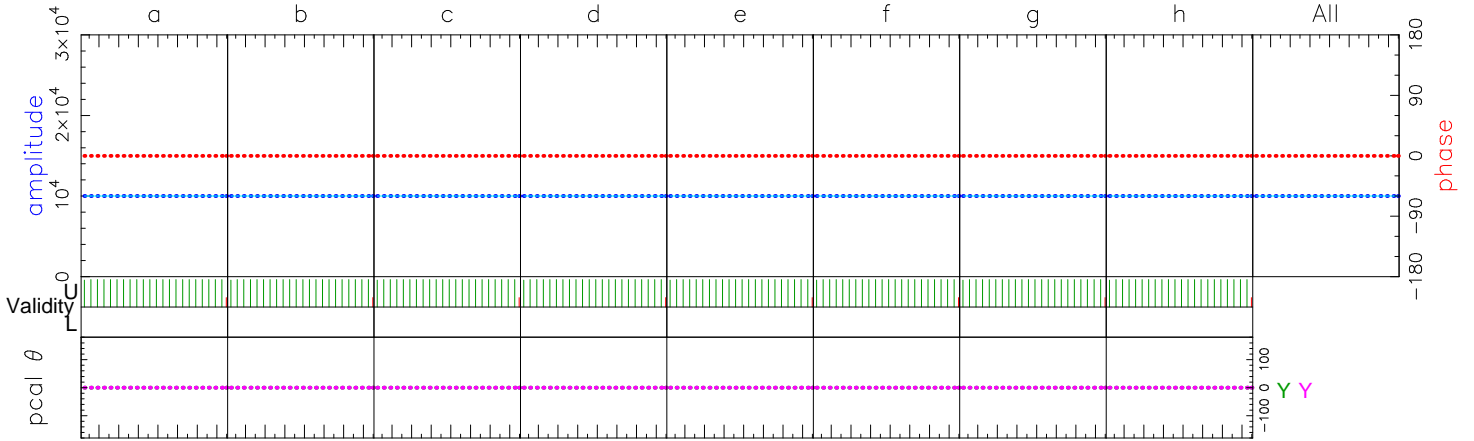


Fringe quality 9

SNR 569825.2
 Int time 434.198
 Amp 10000.000
 Phase -0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz) 0.000000
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210606
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

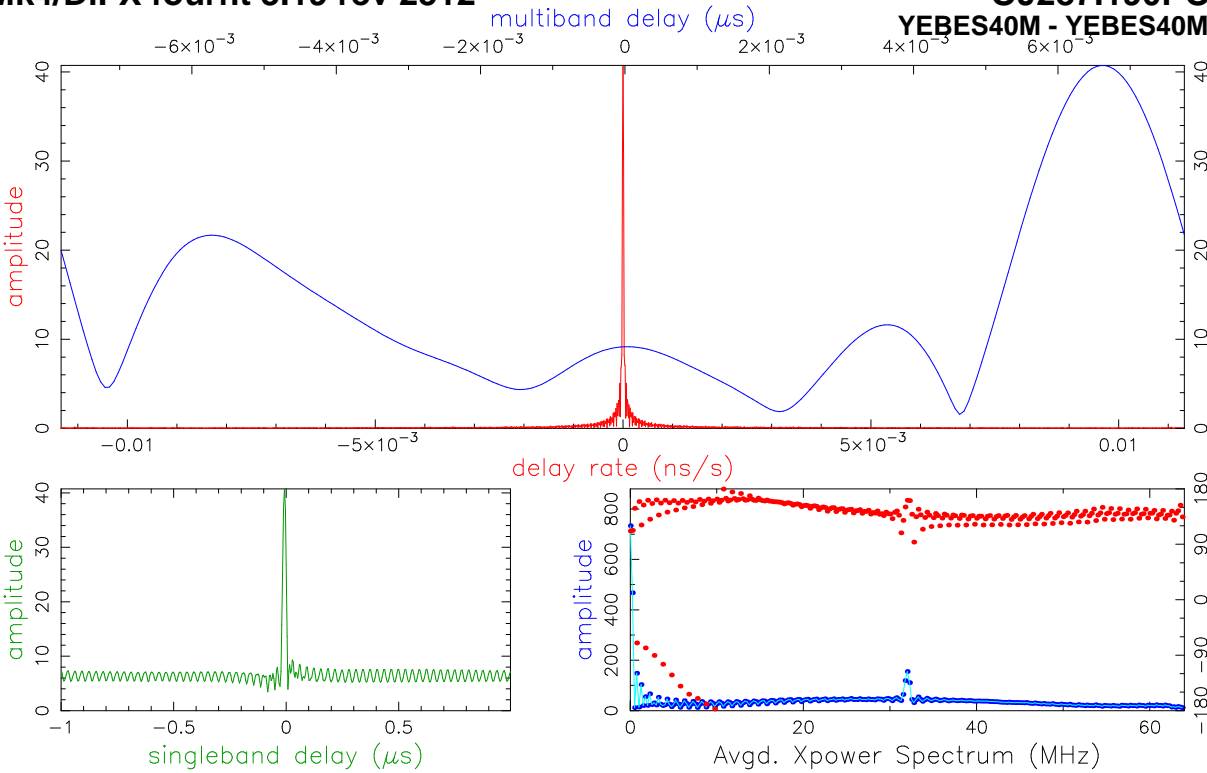
Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	Ampl.	10000.0
Y	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
Y	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
									Tracks	
									Chan ids	
									Tracks	

Group delay (usec)(sbd)	0.000000000000E+00	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	0.000000E+00	+/-	1.9E-09
Sband delay (usec)	0.000000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.000000E+00	+/-	1.5E-08
Phase delay (usec)	-4.18909612342E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.18910E-20	+/-	6.5E-12
Delay rate (us/s)	0.000000000000E+00	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	0.000000E+00	+/-	2.6E-14
Total phase (deg)	-0.0	Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	-0.0	+/-	0.0

ph/seg (deg)	0.0	RMS	Theor.	Amplitude	10000.000 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	0.0	0.0	0.0	Search (2048X32)	10000.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
Y: az 239.3 el 57.8 pa 43.9	Y: az 239.3 el 57.8 pa 43.9	u,v (fr/asec)	0.000 0.000	Inc. frq. avg.	10000.000	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

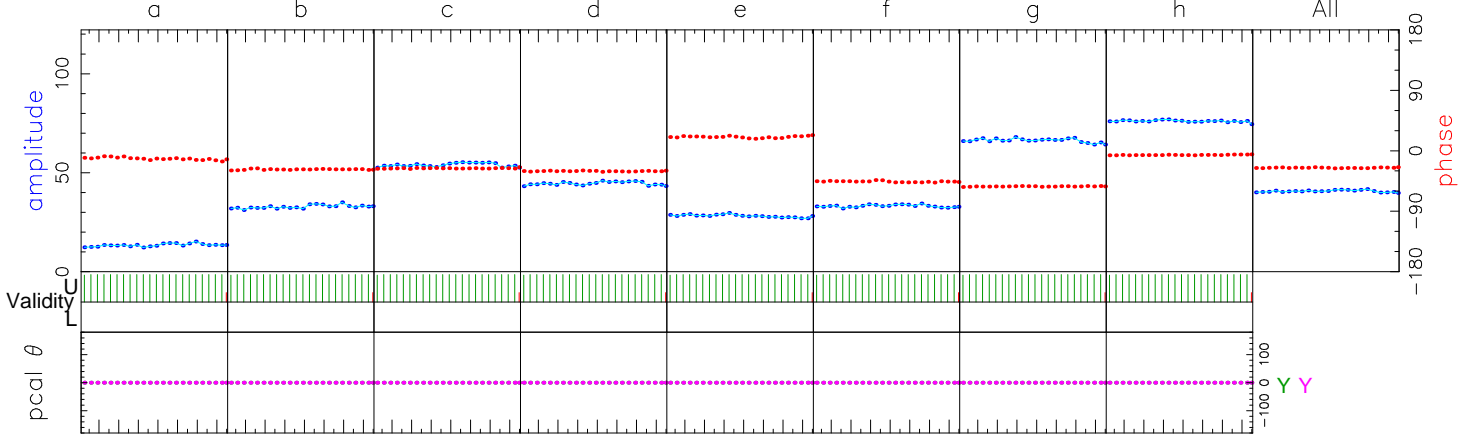


Fringe quality 5

SNR 2321.5
 Int time 434.198
 Amp 40.741
 Phase -25.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.007692
 MBD 0.006621
 Fringe rate (Hz)
 -0.000015
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210609
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec

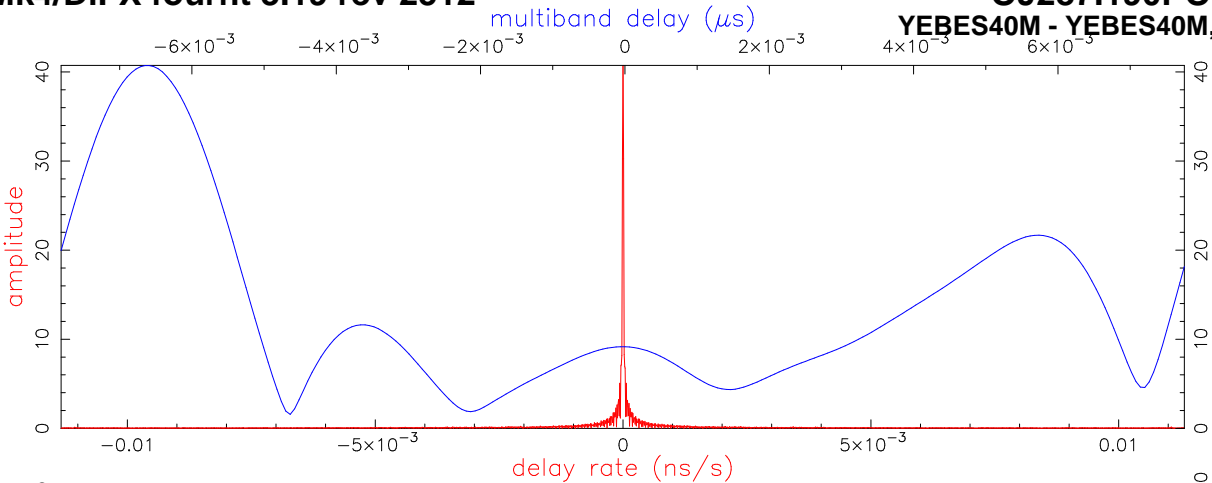


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	-11.7	-27.7	-26.1	-30.3	20.5	-45.8	-53.0	-6.2		Phase	-25.4
	13.5	32.8	54.0	44.6	28.2	33.2	66.4	76.1		Ampl.	43.6
	255.3	254.2	255.1	255.1	254.7	252.0	248.8	253.3		Sbd box	255.0
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		APs used	
Y	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC	
Y	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	
										Chan ids	
										Tracks	
Group delay (usec)(sbd)	-9.00362500000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		6.62138E-03	+/-	4.7E-07
Sband delay (usec)	-7.69225000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-7.69225E-03	+/-	3.7E-06
Phase delay (usec)	-8.17496051800E-07		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-8.17496E-07	+/-	1.6E-09
Delay rate (us/s)	-1.75013732037E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-1.75014E-10	+/-	6.3E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-25.4	+/-	0.0

ph/seg (deg) 0.4 0.1 Amplitude 40.741 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.2 0.2 Search (2048X32) 39.941 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.4 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 48.5 0.1 Inc. seg. avg. 40.739 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Y: az 239.3 el 57.8 pa 43.9 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 simultaneous interpolator

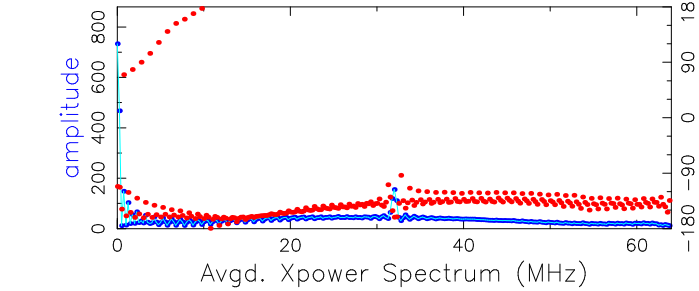
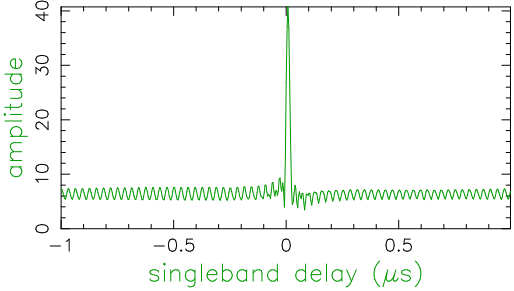
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, YY
 YEBES40M - YEBES40M, fgroup W, pol RL



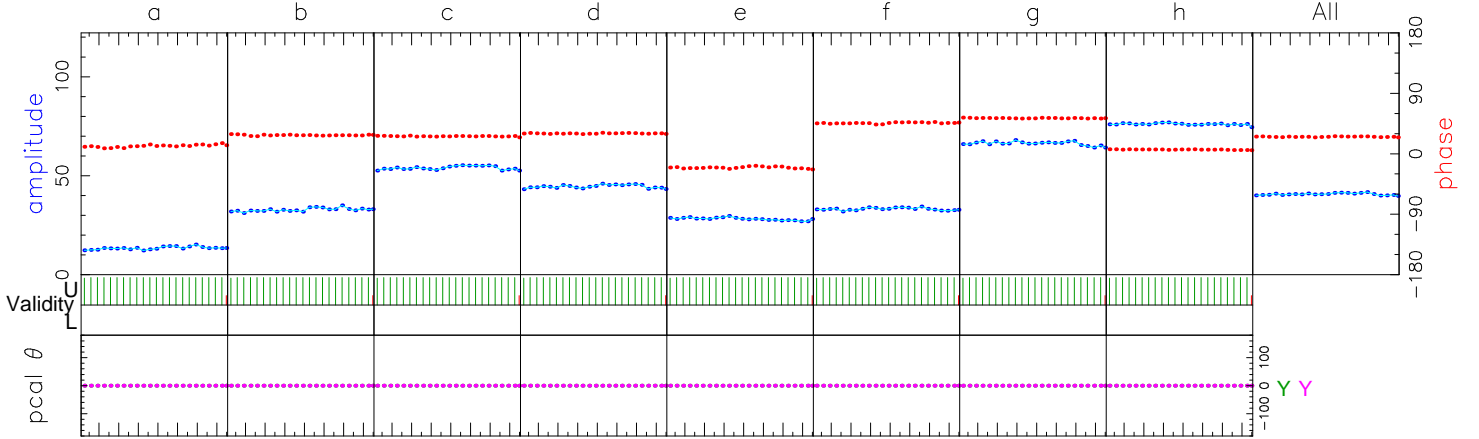
Fringe quality 5

SNR 2321.5
 Int time 434.198
 Amp 40.741
 Phase 25.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.007692
 MBD -0.006621
 Fringe rate (Hz)
 0.000015
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210613
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



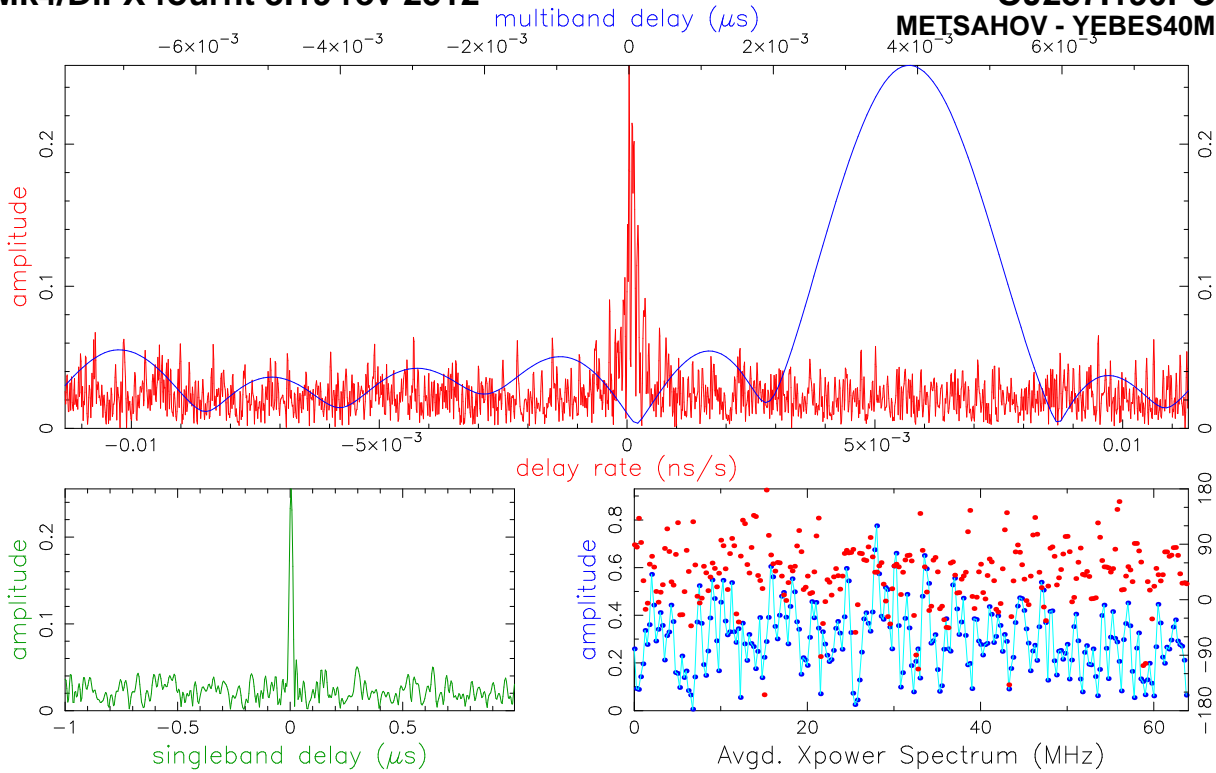
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	11.7	27.7	26.1	30.3	-20.5	45.8	53.0	6.2		25.4
	13.5	32.8	54.0	44.6	28.2	33.2	66.4	76.1		43.6
	258.7	259.8	258.9	258.9	259.3	262.0	265.2	260.7		259.0
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	9.003625000000E-03	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	-6.62138E-03	+/-	4.7E-07
Sband delay (usec)	7.692250000000E-03	Apriori clock (usec)	0.000000000000E+00	Resid sbdelay (usec)	7.69225E-03	+/-	3.7E-06
Phase delay (usec)	8.17496051613E-07	Apriori clockrate (us/s)	0.000000000000E+00	Resid phdelay (usec)	8.17496E-07	+/-	1.6E-09
Delay rate (us/s)	1.75013732037E-10	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	1.75014E-10	+/-	6.3E-12
Total phase (deg)	25.4	Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	25.4	+/-	0.0

ph/seg (deg)	0.4	Theor.	Amplitude	40.741 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	1.2	0.1	Search (2048X32)	39.941	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	25.4	0.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	48.5	0.1	Inc. seg. avg.	40.739	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
			Inc. frq. avg.	43.615	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

Y: az 239.3 el 57.8 pa 43.9 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/YY..190POF Output file: /Exps/c201c/v1/1234/No0032/YY.W.231.190POF

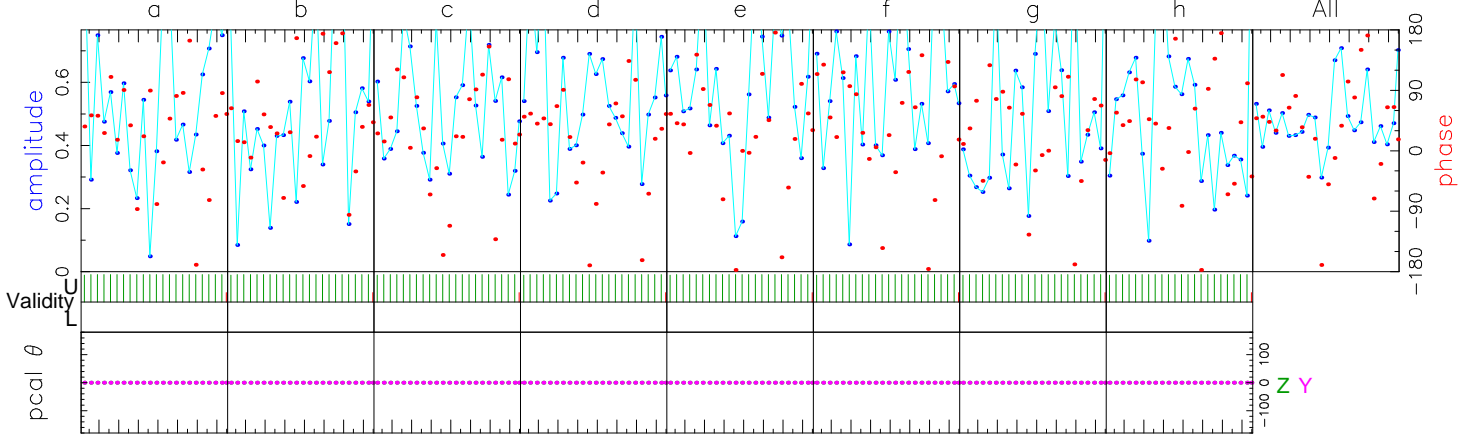


Fringe quality 9

SNR 14.5
 Int time 433.630
 Amp 0.255
 Phase 46.8
 PFD 3.7e-39
 Delays (us)
 SBD 0.003854
 MBD 0.003880
 Fringe rate (Hz) 0.003553
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210607
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

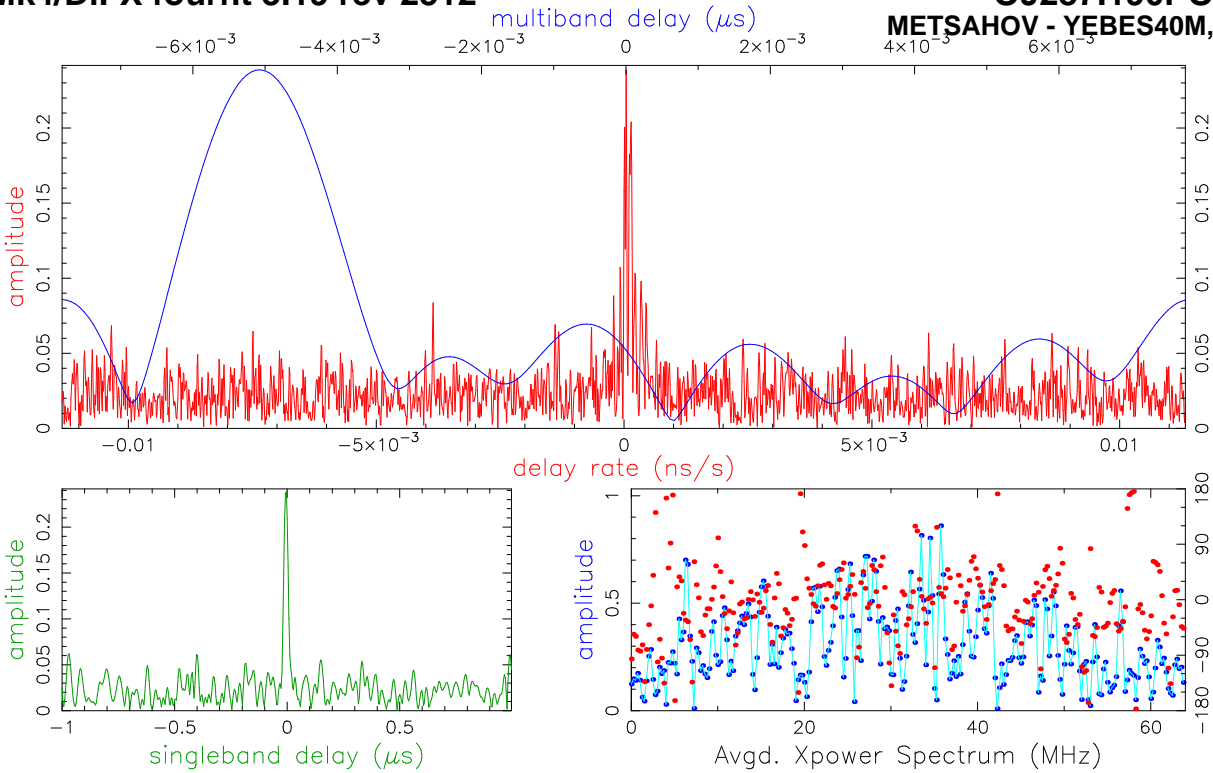
Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	42.0	47.1	51.8	42.3	52.5	57.1	44.5	37.5	Phase	46.8
	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.2	Ampl.	0.3
	257.9	258.0	258.5	257.9	258.6	257.8	258.1	256.4	Sbd box	258.0
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

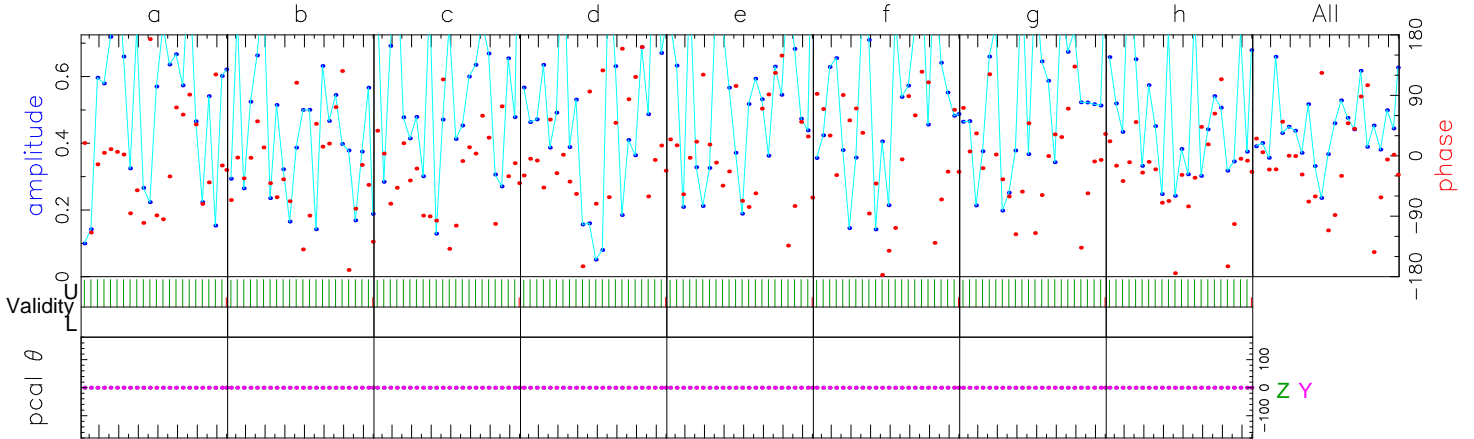
Group delay (usec)(sbd)	-6.25737430485E+03	Apriori delay (usec)	-6.25737818454E+03	Resid mbdelay (usec)	3.87969E-03	+/-	7.5E-05
Sband delay (usec)	-6.25737433079E+03	Apriori clock (usec)	-1.2094316E+01	Resid sbdelay (usec)	3.85375E-03	+/-	5.9E-04
Phase delay (usec)	-6.25737818303E+03	Apriori clockrate (us/s)	-2.0400000E-07	Resid phdelay (usec)	1.50929E-06	+/-	2.5E-07
Delay rate (us/s)	-5.32263590022E-02	Apriori rate (us/s)	-5.32264002452E-02	Resid rate (us/s)	4.12430E-08	+/-	1.0E-09
Total phase (deg)	-247.0	Apriori accel (us/s/s)	4.16517270864E-05	Resid phase (deg)	46.8	+/-	7.9

ph/seg (deg)	66.1	RMS	18.9	Theor.	18.9	Amplitude	0.255 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5			
amp/seg (%)	96.4	Search (2048X32)	0.249	Search	0.249	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000			
ph/frq (deg)	7.0	Inc. seg. avg.	0.458	Inc. seg. avg.	0.458	Inc. frq. avg.	0.252	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008		
amp/frq (%)	16.0	Inc. frq. avg.	0.252	Inc. frq. avg.	0.252	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	dr window (ns/s)	-0.011 0.011
Z: az 250.5 el 33.6 pa 29.9	Y: az 239.3 el 57.8 pa 43.9	u, v (fr/asec)	390.837 3009.739	simultaneous interpolator				ion window (TEC)	0.00 0.00				



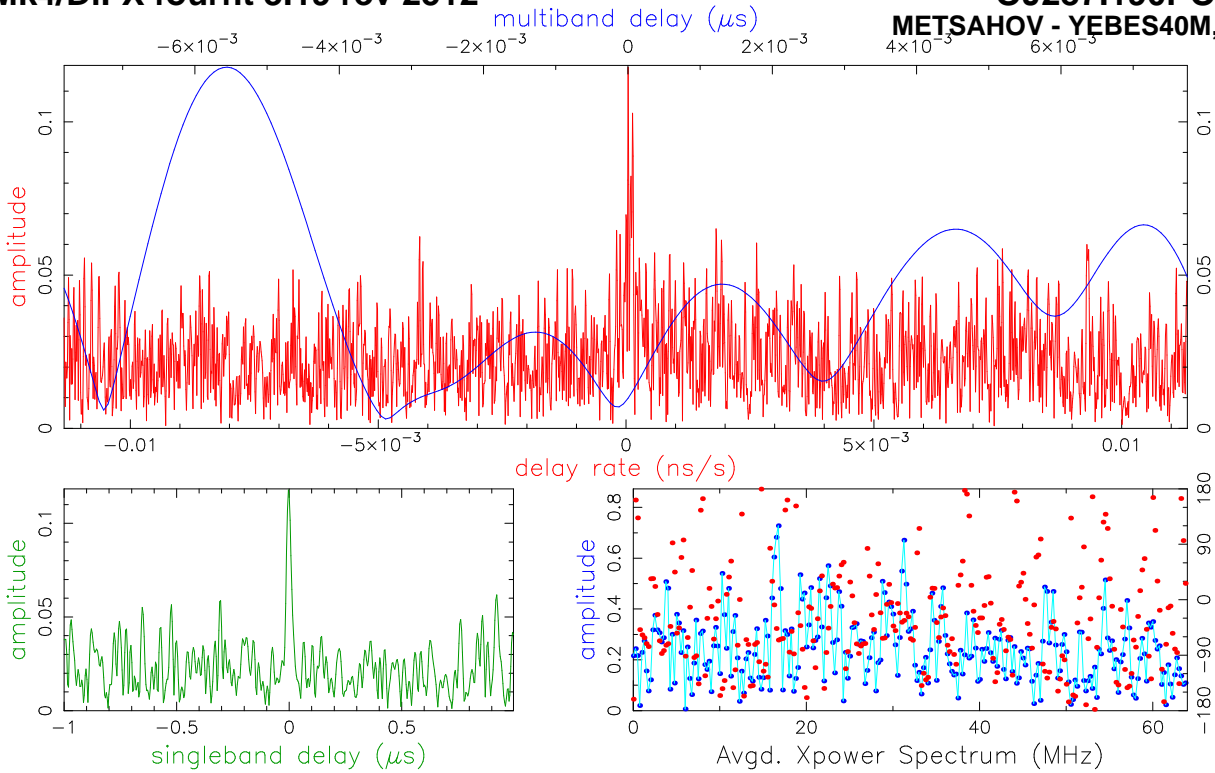
Fringe quality 9
 SNR 13.8
 Int time 433.630
 Amp 0.242
 Phase -8.0
 PFD 2.5e-34
 Delays (us)
 SBD -0.005638
 MBD -0.005128
 Fringe rate (Hz) 0.003727
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210611
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



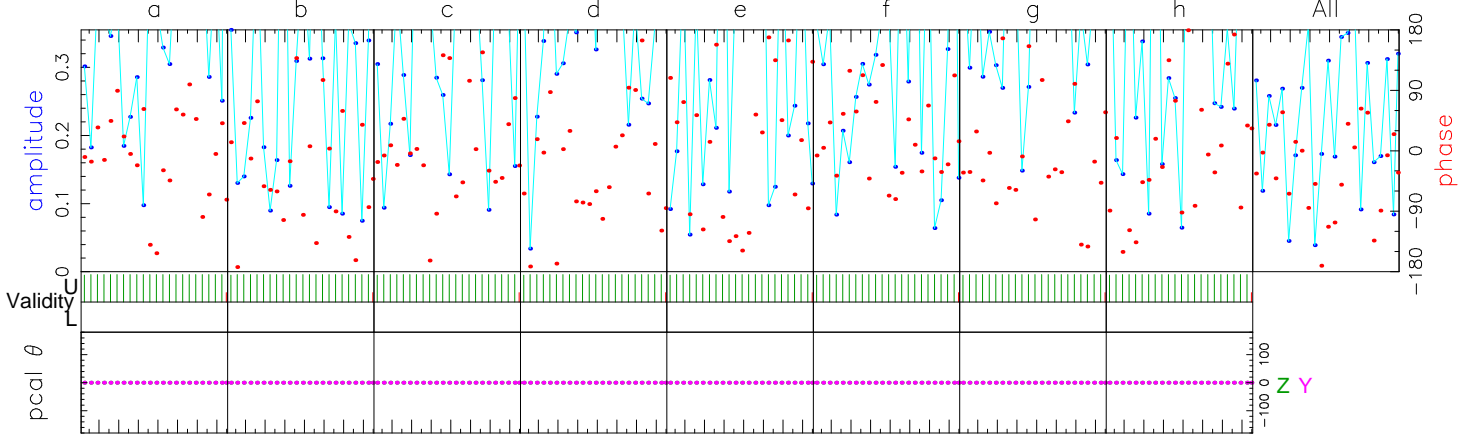
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-8.9	-8.5	-22.0	-9.9	-5.1	35.2	-4.9	-11.3	Phase	-8.0
	0.3	0.2	0.3	0.3	0.2	0.1	0.2	0.3	Ampl.	0.2
	254.3	255.5	256.0	255.4	256.4	402.6	256.0	256.3	Sbd box	255.6
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.25738331281E+03		Apriori delay (usec)		-6.25737818454E+03		Resid mbdelay (usec)		-5.12828E-03	+/- 7.9E-05
Sband delay (usec)	-6.25738382254E+03		Apriori clock (usec)		-1.2094316E+01		Resid sbdelay (usec)		-5.63800E-03	+/- 6.3E-04
Phase delay (usec)	-6.25737818480E+03		Apriori clockrate (us/s)		-2.0400000E-07		Resid phdelay (usec)		-2.57716E-07	+/- 2.7E-07
Delay rate (us/s)	-5.32263569743E-02		Apriori rate (us/s)		-5.32264002452E-02		Resid rate (us/s)		4.32709E-08	+/- 1.1E-09
Total phase (deg)			Apriori accel (us/s/s)		4.16517270864E-05		Resid phase (deg)		-8.0	+/- 8.3

ph/seg (deg) 65.5 20.0 Theor. Amplitude 0.242 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 91.0 34.8 Search (2048X32) 0.233 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 18.7 11.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 24.5 20.6 Inc. seg. avg. 0.416 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Z: az 250.5 el 33.6 pa 29.9 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) 390.837 3009.739 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 simultaneous interpolator

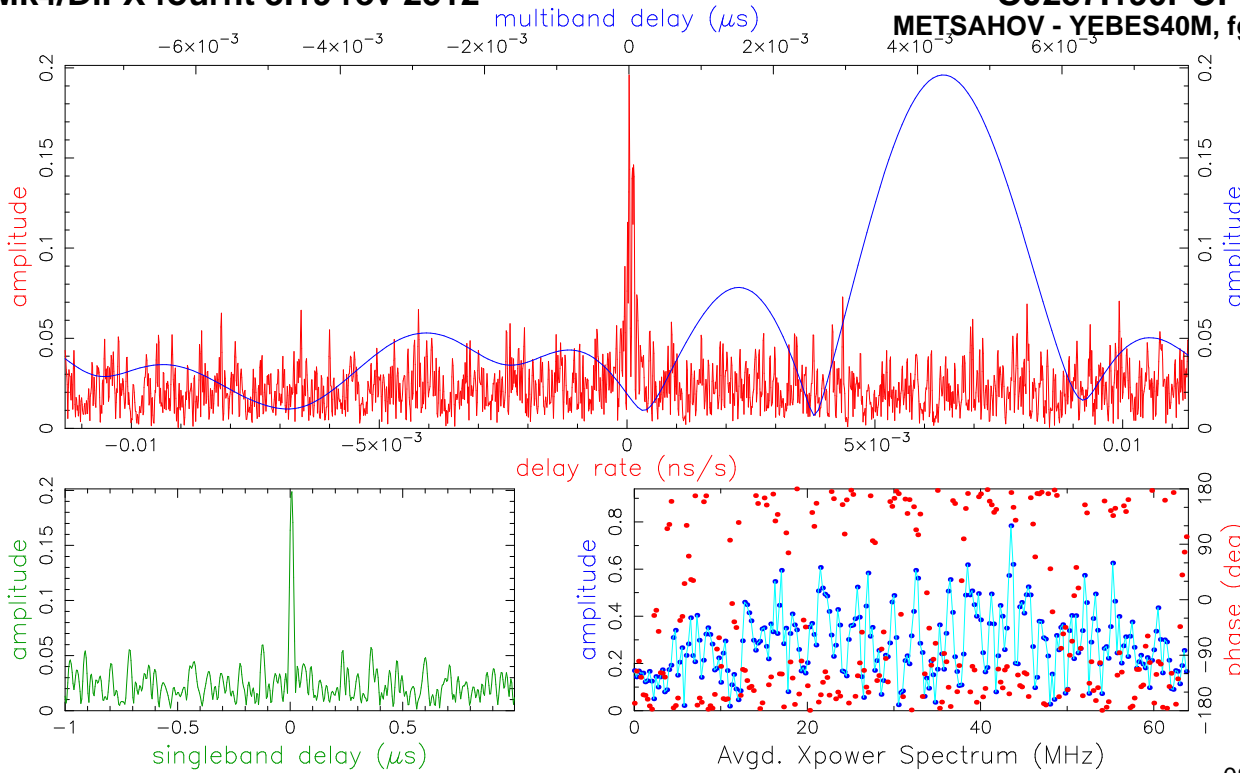


Fringe quality 0
 SNR 6.7
 Int time 433.630
 Amp 0.118
 Phase -17.5
 PFD 4.5e-03
 Delays (us)
 SBD -0.002713
 MBD -0.005532
 Fringe rate (Hz) 0.003791
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build 2020:202:063214
 2020:202:210614
 2020:014:135814
 RA & Dec (J2000) 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-6.25738371622E+03	-6.25738089704E+03	-6.25737818510E+03	-6.25737818454E+03	-6.25737818454E+03	-6.25737818454E+03	-6.25737818454E+03	-6.25737818454E+03		
Sband delay (usec)	-6.25738089704E+03	-6.25738089704E+03	-6.25738089704E+03	-6.25738089704E+03	-6.25738089704E+03	-6.25738089704E+03	-6.25738089704E+03	-6.25738089704E+03		
Phase delay (usec)	-6.25737818510E+03	-6.25737818510E+03	-6.25737818510E+03	-6.25737818510E+03	-6.25737818510E+03	-6.25737818510E+03	-6.25737818510E+03	-6.25737818510E+03		
Delay rate (us/s)	-5.32263562402E-02	-5.32263562402E-02	-5.32263562402E-02	-5.32263562402E-02	-5.32263562402E-02	-5.32263562402E-02	-5.32263562402E-02	-5.32263562402E-02		
Total phase (deg)			-311.3							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
pcal mode										
PC period (AP's)										
PC freqs										
PC phase										
Mani PC										
PC amp										
Chan ids										
Tracks										
Chan ids										
Tracks										
ph/seg (deg)	65.9	40.8	40.8	40.8	40.8	40.8	40.8	40.8		
amp/seg (%)	126.4	71.1	71.1	71.1	71.1	71.1	71.1	71.1		
ph/frq (deg)	37.3	24.0	24.0	24.0	24.0	24.0	24.0	24.0		
amp/frq (%)	50.6	42.0	42.0	42.0	42.0	42.0	42.0	42.0		
Z: az 250.5 el 33.6 pa 29.9										
Y: az 239.3 el 57.8 pa 43.9										
u,v (fr/asec) 390.837 3009.739										
simultaneous interpolator										

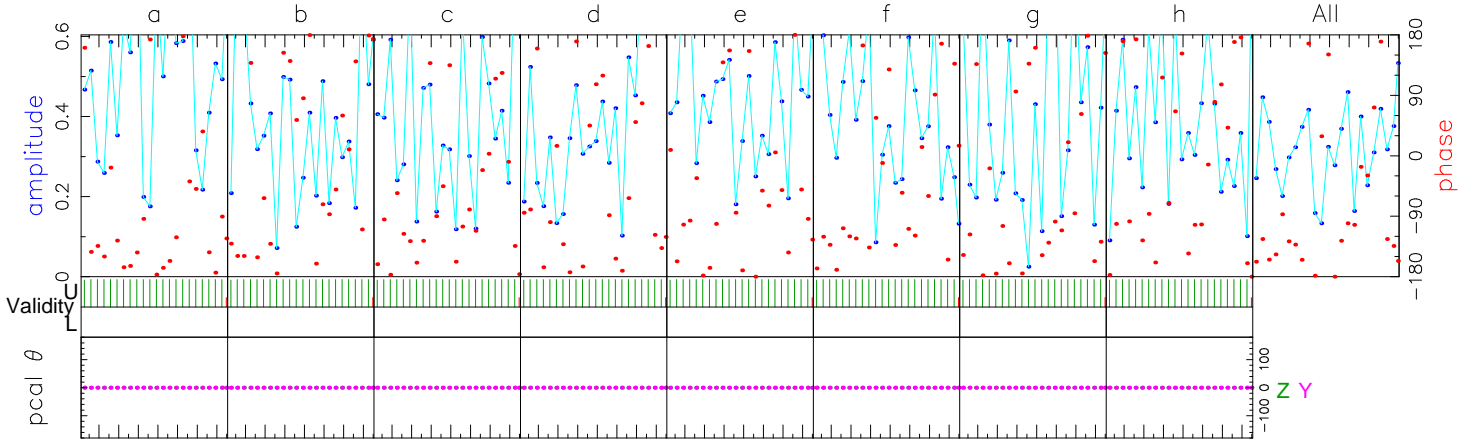


Fringe quality 9

SNR 11.5
 Int time 433.630
 Amp 0.201
 Phase -142.3
 PFD 9.4e-22
 Delays (us)
 SBD 0.006186
 MBD 0.004385
 Fringe rate (Hz) 0.003527
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210618
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-141.2	-153.3	-127.5	-158.3	-122.3	-138.0	-143.7	-168.6	Phase	-142.3
	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	Ampl.	0.2
	259.3	258.9	258.0	287.1	259.2	258.2	258.1	29.1	Sbd box	258.6
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-6.25737379953E+03	Apriori delay (usec)	-6.25737818454E+03	Resid mbdelay (usec)	4.38500E-03	+/-	9.5E-05
Sband delay (usec)	-6.25737199829E+03	Apriori clock (usec)	-1.2094316E+01	Resid sbdelay (usec)	6.18625E-03	+/-	7.5E-04
Phase delay (usec)	-6.25737818913E+03	Apriori clockrate (us/s)	-2.0400000E-07	Resid phdelay (usec)	-4.58853E-06	+/-	3.2E-07
Delay rate (us/s)	-5.32263592991E-02	Apriori rate (us/s)	-5.32264002452E-02	Resid rate (us/s)	4.09461E-08	+/-	1.3E-09
Total phase (deg)	-76.1	Apriori accel (us/s/s)	4.16517270864E-05	Resid phase (deg)	-142.3	+/-	10.0

ph/seg (deg)	66.8	RMS	24.0	Theor.	24.0	Amplitude	0.201 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	74.9	Search (2048X32)	0.192	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	16.9	Inc. seg. avg.	0.292	Inc. frq. avg.	0.195	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	29.8	Inc. frq. avg.	0.195	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags:	256	t_cohere	infinite

Z: az 250.5 el 33.6 pa 29.9 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) 390.837 3009.739 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/ZY..190POF Output file: /Exps/c201c/v1/1234/No0032/ZY.W.241.190POF