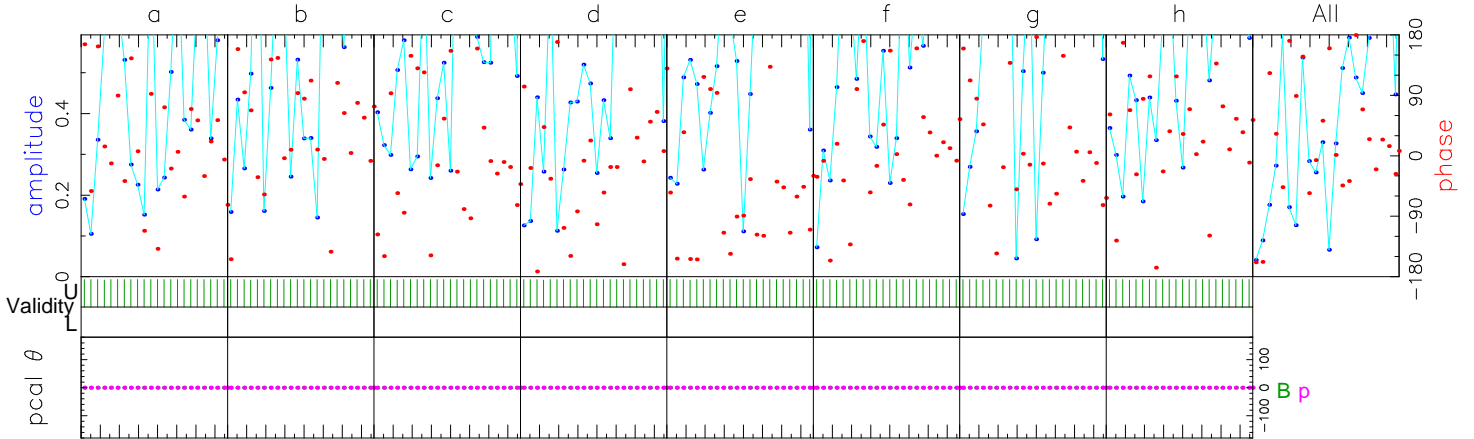


Fringe quality 9
 SNR 11.3
 Int time 438.936
 Amp 0.198
 Phase 3.1
 PFD 4.7e-21
 Delays (us)
 SBD 0.001325
 MBD -0.006690
 Fringe rate (Hz) 0.006475
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210517
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

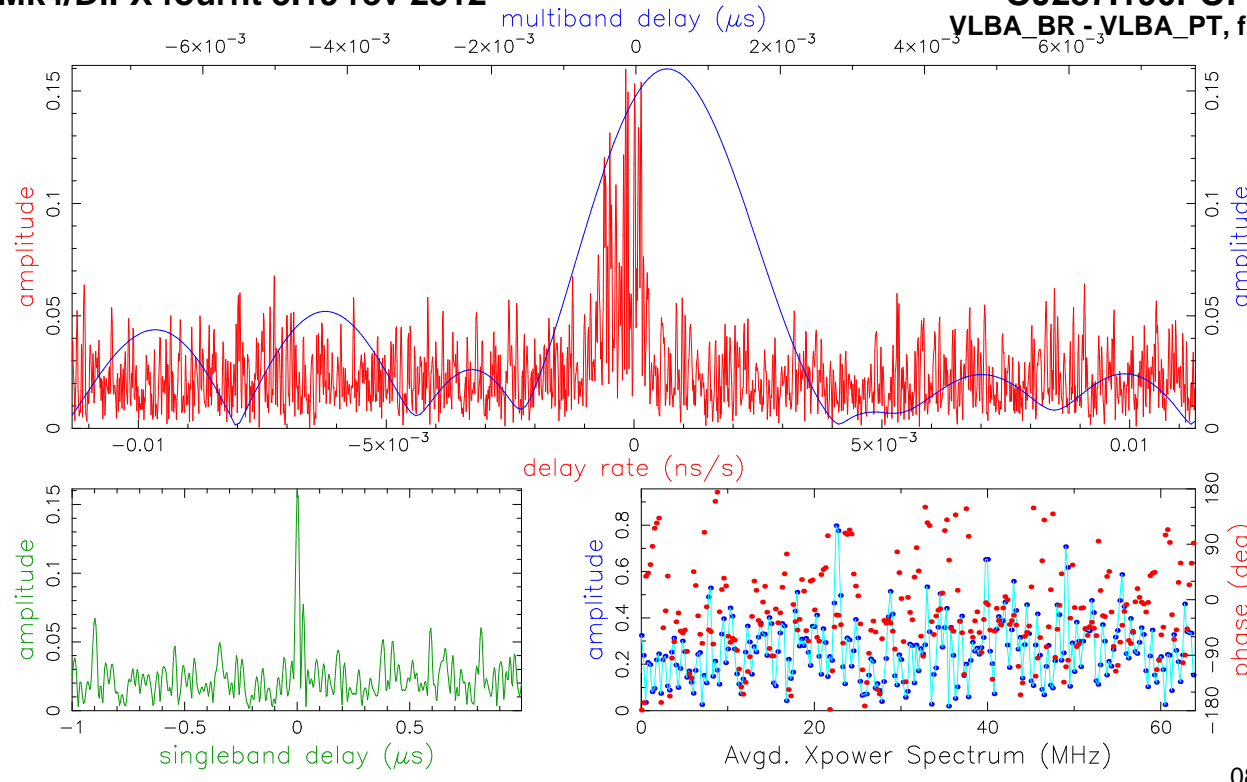


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	20.0	53.6	-37.6	7.9	-96.8	4.5	-14.5	39.4	Phase	3.1
	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	Ampl.	0.3
	258.1	256.6	257.7	257.8	258.2	258.9	258.3	257.9	Sbd box	257.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.83034288209E+03		Apriori delay (usec)		6.8303394685E+03		Resid mbdelay (usec)		-6.68975E-03	+/- 9.6E-05
Sband delay (usec)	6.83033527235E+03		Apriori clock (usec)		-4.2469006E+00		Resid sbdelay (usec)		1.32550E-03	+/- 7.6E-04
Phase delay (usec)	6.8303394694E+03		Apriori clockrate (us/s)		-4.0399999E-07		Resid phdelay (usec)		9.84466E-08	+/- 3.3E-07
Delay rate (us/s)	-1.76410819443E+00		Apriori rate (us/s)		-1.76410826960E+00		Resid rate (us/s)		7.51687E-08	+/- 1.3E-09
Total phase (deg)	68.3		Apriori accel (us/s/s)		-2.82921395327E-05		Resid phase (deg)		3.1	+/- 10.1

ph/seg (deg) 95.0 24.3 Amplitude 0.198 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 152.9 42.3 Search (2048X32) 0.194 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 51.8 14.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.3 25.0 Inc. seg. avg. 0.361 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.255 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 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 10702.943 864.838 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Bp..190POF Output file: /Exps/c201c/v1/1234/No0032/Bp.W.13.190POF

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, bp
VLBA_BR - VLBA_PT, fgroup W, pol LL

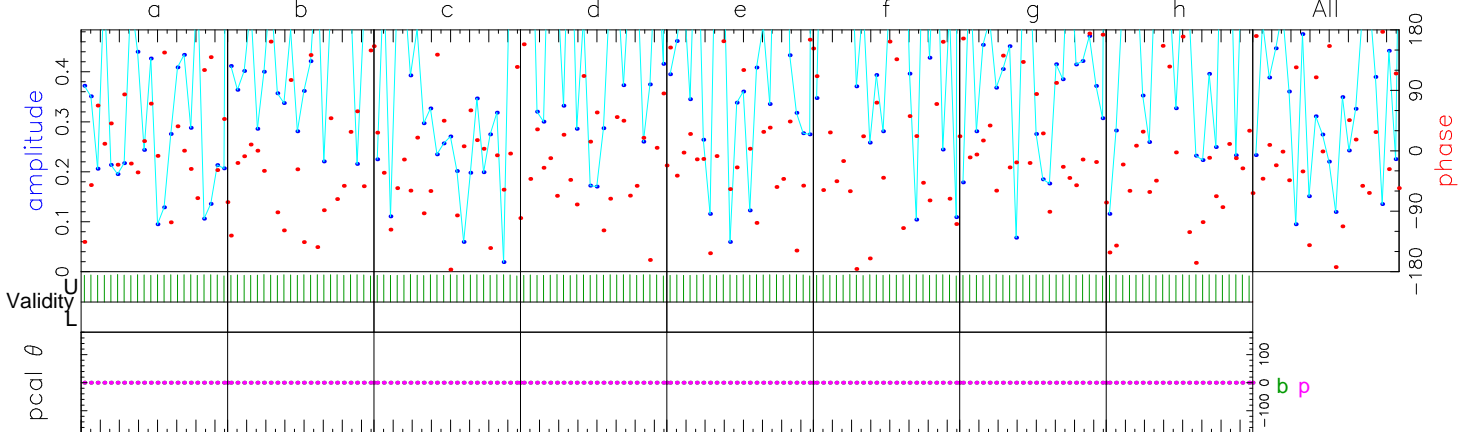


Fringe quality 9

SNR 9.2
Int time 431.619
Amp 0.161
Phase -22.4
PFD 1.9e-11
Delays (us)
SBD 0.001382
MBD 0.000488
Fringe rate (Hz) -0.014184
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
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, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

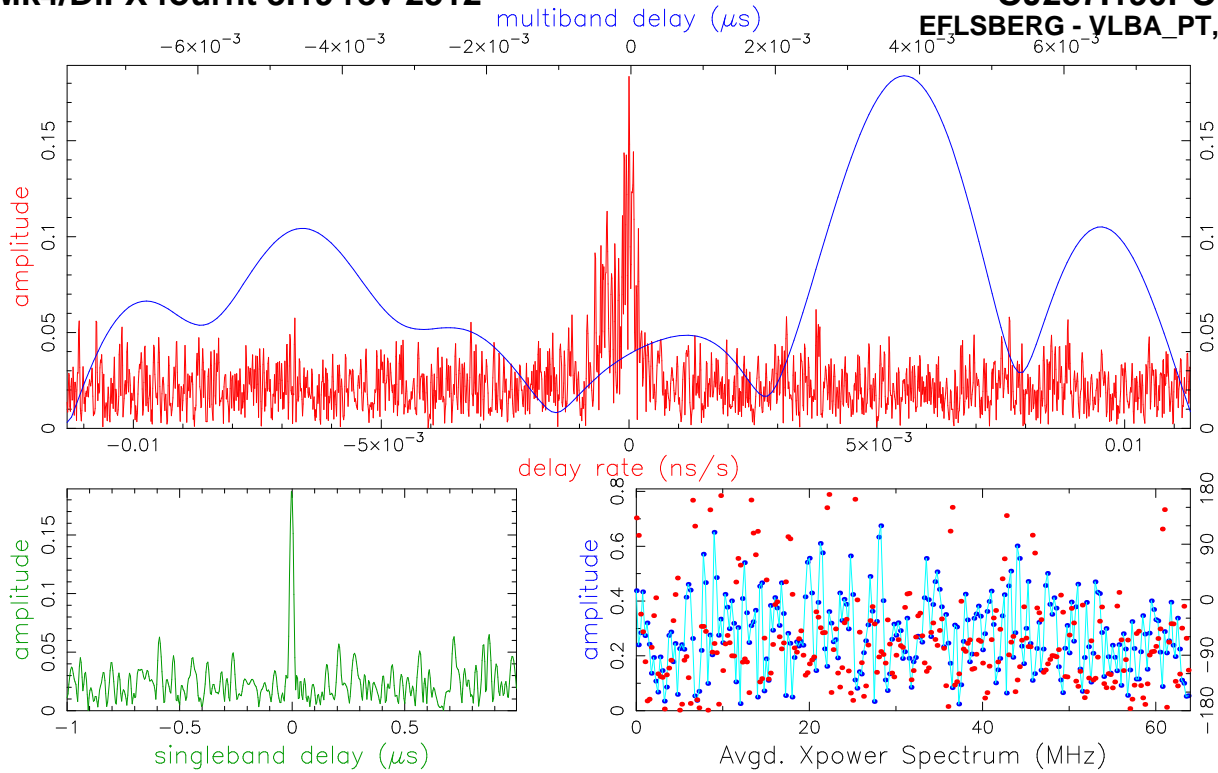


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-5.8	-53.8	-19.2	-20.8	-19.7	-29.1	-3.9	-38.8	Phase	-22.4
	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
	26.5	488.2	365.8	257.2	257.5	97.0	117.9	257.7	Sbd box	257.4
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) -2.19847799867E+03 Apriori delay (usec) -2.19847848636E+03 Resid mbdelay (usec) 4.87695E-04 +/- 1.2E-04
 Sband delay (usec) -2.19847710461E+03 Apriori clock (usec) -1.8697998E+01 Resid sbdelay (usec) 1.38175E-03 +/- 9.4E-04
 Phase delay (usec) -2.19847848708E+03 Apriori clockrate (us/s) -2.4600000E-07 Resid phdelay (usec) -7.22285E-07 +/- 4.0E-07
 Delay rate (us/s) -1.90184702890E-01 Apriori rate (us/s) -1.90184538228E-01 Resid rate (us/s) -1.64662E-07 +/- 1.6E-09
 Total phase (deg) -315.9 Apriori accel (us/s/s) 1.85858257494E-05 Resid phase (deg) -22.4 +/- 12.5

RMS Theor. Amplitude 0.161 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 95.7 30.0 Search (2048X32) 0.158 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 135.8 52.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 18.0 17.7 Inc. seg. avg. 0.291 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 21.5 30.9 Inc. frq. avg. 0.157 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 78.2 el 16.5 pa -44.1 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 1187.815 2032.902 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bp..190POF Output file: /Exps/c201c/v1/1234/No0032/bp.W.15.190POF

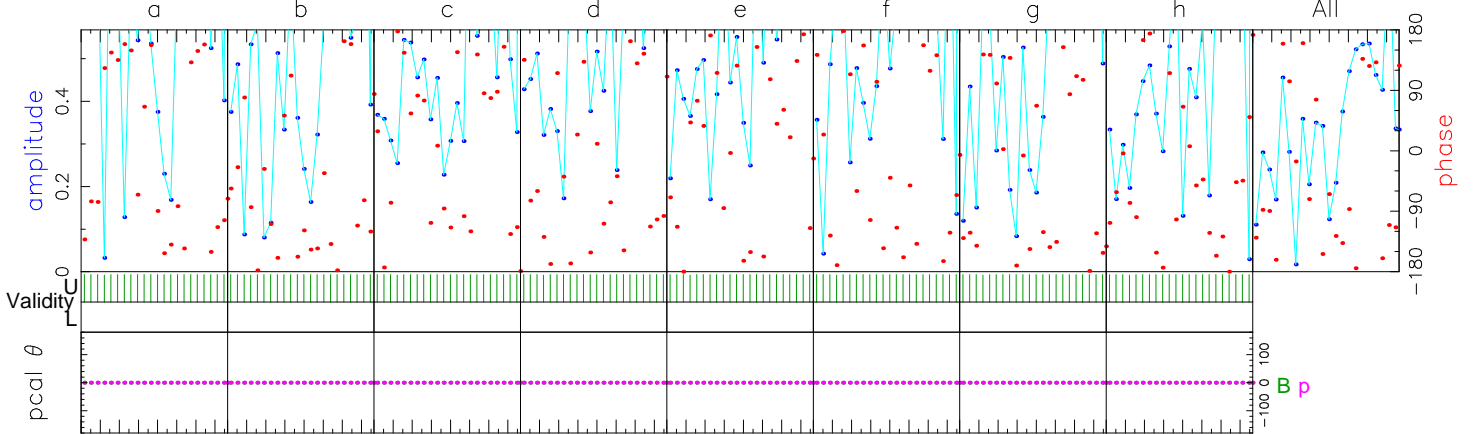


Fringe quality 9

SNR 10.8
Int time 438.936
Amp 0.189
Phase -162.6
PFD 9.5e-19
Delays (us)
SBD -0.002382
MBD 0.003727
Fringe rate (Hz)
-0.000034
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

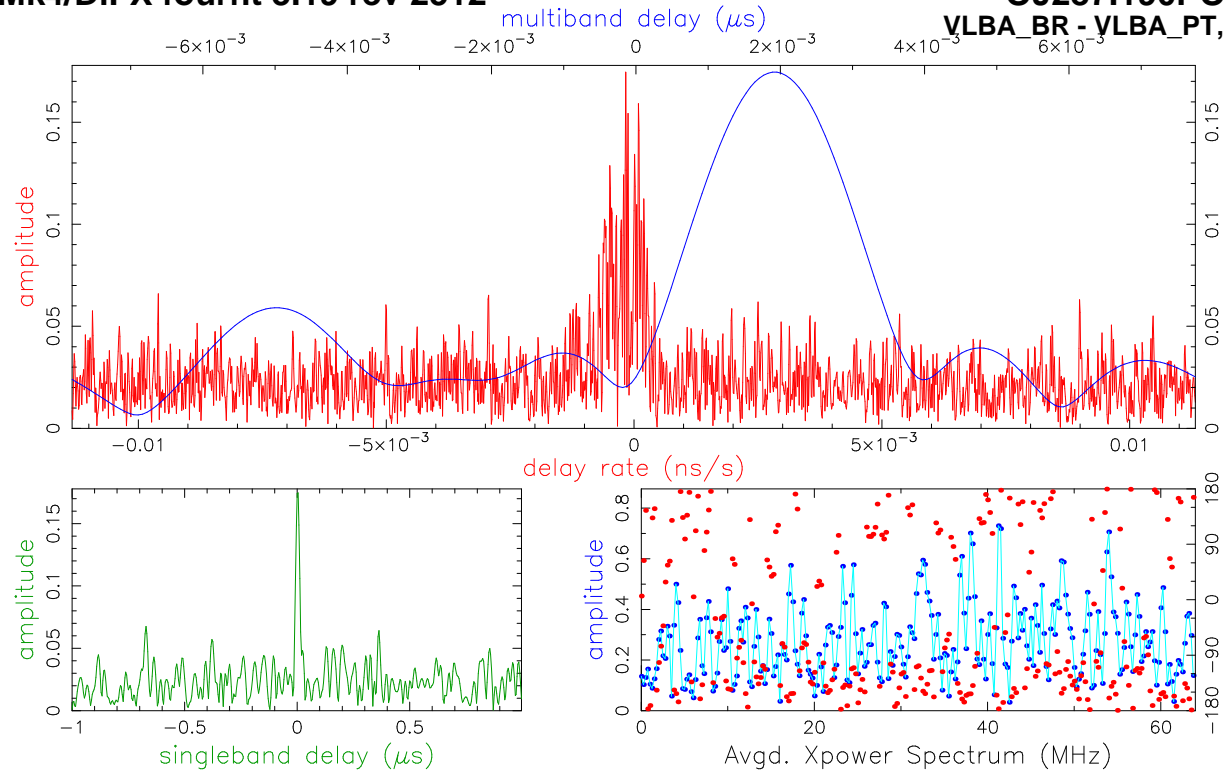
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210521
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



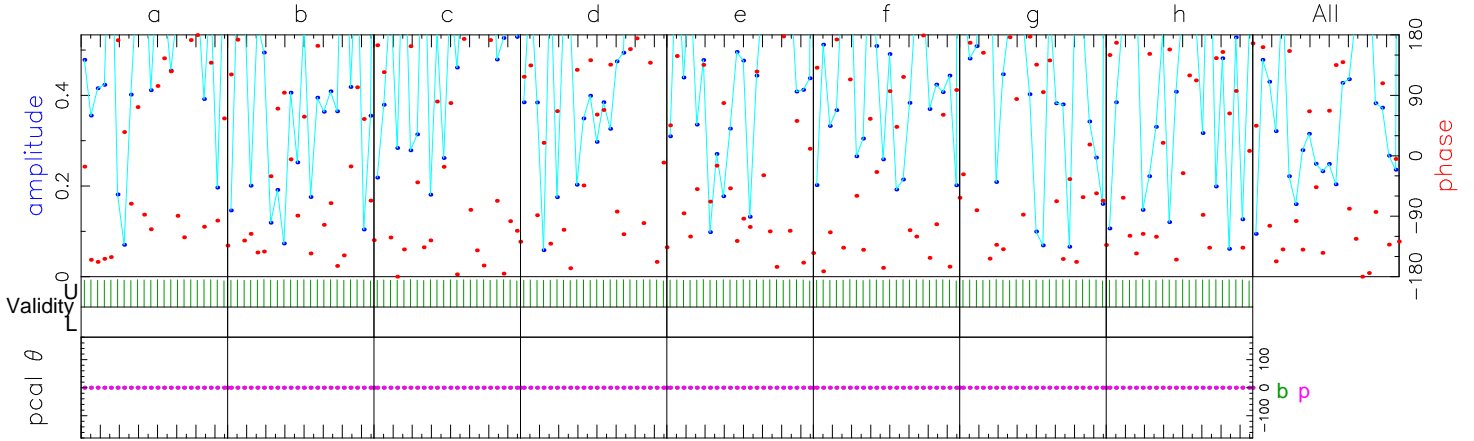
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-167.3	-133.8	144.1	-138.6	127.5	-157.9	175.2	-108.0	Phase	-162.6
	0.3	0.2	0.1	0.2	0.2	0.3	0.2	0.2	Ampl.	0.2
	255.6	256.0	36.9	256.0	90.9	257.0	257.4	257.1	Sbd box	256.4
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.83033767422E+03		Apriori delay (usec)		6.83033394685E+03		Resid mbdelay (usec)		3.72738E-03	+/- 1.0E-04
Sband delay (usec)	6.83033156535E+03		Apriori clock (usec)		-4.2469006E+00		Resid sbdelay (usec)		-2.38150E-03	+/- 7.9E-04
Phase delay (usec)	6.83033394160E+03		Apriori clockrate (us/s)		-4.0399999E-07		Resid phdelay (usec)		-5.24491E-06	+/- 3.4E-07
Delay rate (us/s)	-1.76410826999E+00		Apriori rate (us/s)		-1.76410826960E+00		Resid rate (us/s)		-3.94667E-10	+/- 1.3E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.82921395327E-05		Resid phase (deg)		-162.6	+/- 10.6

ph/seg (deg) 68.8 25.3 Search (2048X32) 0.183 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 122.7 44.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 45.9 14.9 Inc. seg. avg. 0.315 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 35.8 26.1 Inc. frq. avg. 0.214 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 239.9 el 46.7 pa 35.9 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 10702.943 864.838 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Bp..190POF Output file: /Exps/c201c/v1/1234/No0032/Bp.W.27.190POF



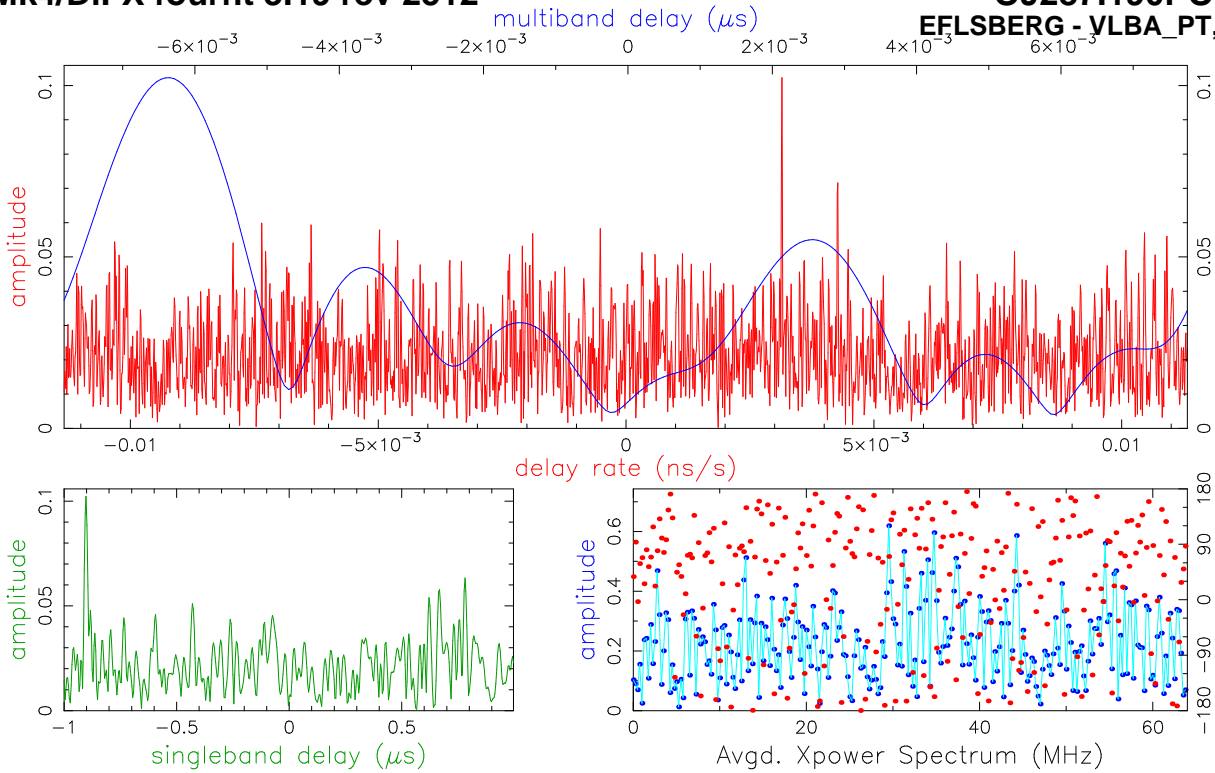
Fringe quality 9
 SNR 10.1
 Int time 431.619
 Amp 0.178
 Phase -155.3
 PFD 2.3e-15
 Delays (us)
 SBD 0.002010
 MBD 0.001908
 Fringe rate (Hz) -0.014561
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210523
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 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
	-163.9	-144.2	-150.5	-171.8	-128.8	-174.8	-145.4	-161.0	Phase	-155.3
	0.2	0.1	0.3	0.2	0.2	0.1	0.2	0.1	Ampl.	0.2
	257.3	160.9	257.3	257.9	209.9	285.3	256.8	349.4	Sbd box	257.5
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.19847657857E+03		Apriori delay (usec)		-2.19847848636E+03		Resid mbdelay (usec)		1.90779E-03	+/- 1.1E-04
Sband delay (usec)	-2.19847647686E+03		Apriori clock (usec)		-1.8697998E+01		Resid sbdelay (usec)		2.00950E-03	+/- 8.5E-04
Phase delay (usec)	-2.19847849137E+03		Apriori clockrate (us/s)		-2.4600000E-07		Resid phdelay (usec)		-5.00689E-06	+/- 3.7E-07
Delay rate (us/s)	-1.90184707263E-01		Apriori rate (us/s)		-1.90184538228E-01		Resid rate (us/s)		-1.69035E-07	+/- 1.4E-09
Total phase (deg)			Apriori accel (us/s/s)		1.85858257494E-05		Resid phase (deg)		-155.3	+/- 11.3

ph/seg (deg) 80.0 27.2 Search (2048X32) 0.171 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 135.7 47.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 16.8 16.0 Inc. seg. avg. 0.321 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 32.7 28.0 Inc. frq. avg. 0.173 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 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 1187.815 2032.902 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bp..190POF Output file: /Exps/c201c/v1/1234/No0032/bp.W.35.190POF

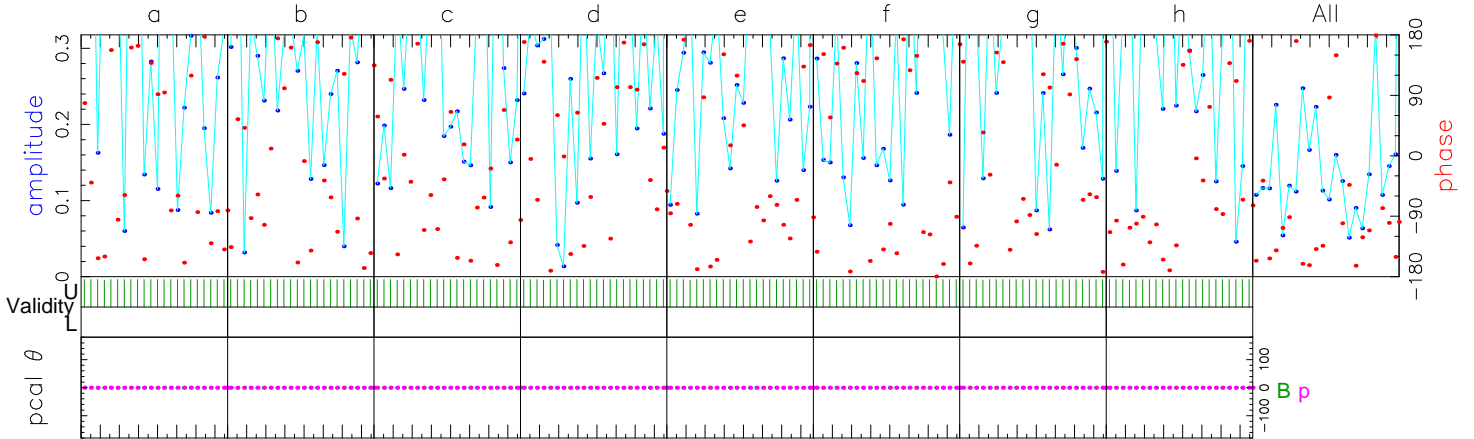


Fringe quality 0

SNR 5.9
Int time 438.936
Amp 0.106
Phase -143.3
PFD 6.6e-01
Delays (us)
SBD -0.902897
MBD -0.006383
Fringe rate (Hz) 0.271646
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

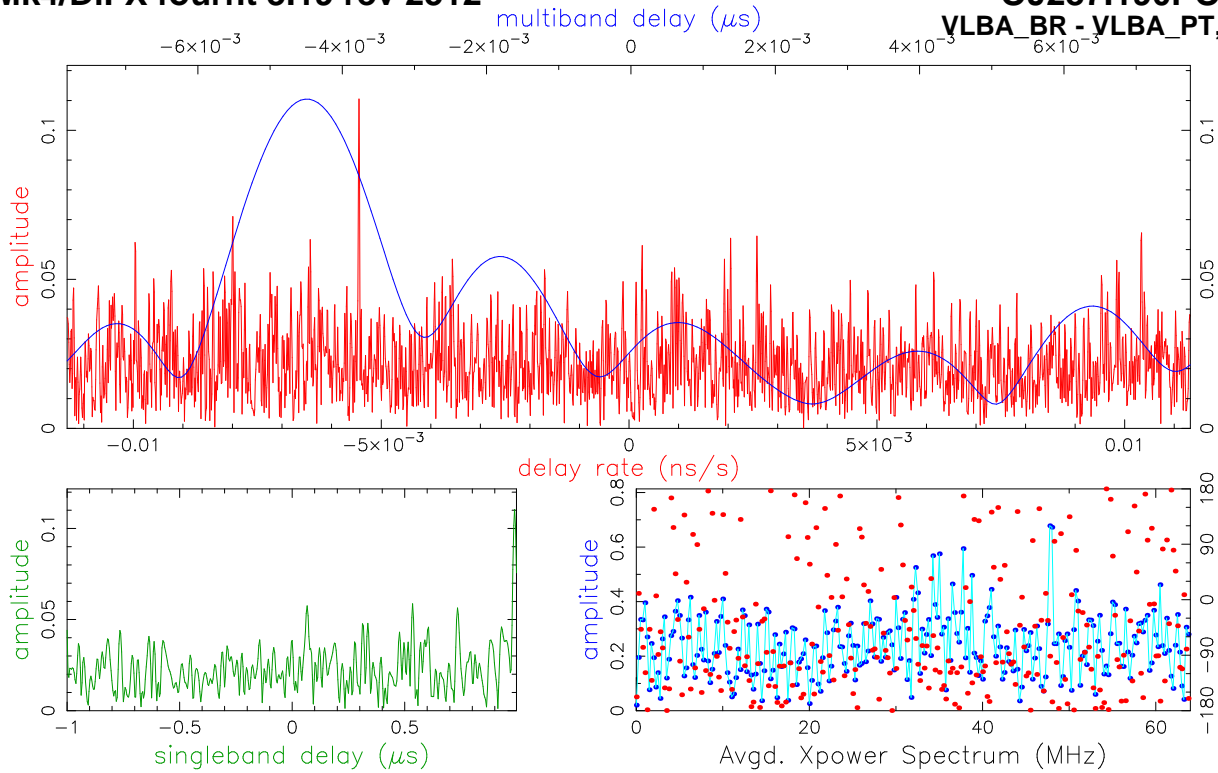
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210525
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 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
	-168.6	-137.5	-87.0	-178.5	-120.6	-165.8	-126.9	-144.7	Phase	-143.3
	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	Ampl.	0.1
	179.4	126.7	511.1	339.1	1.4	26.7	10.7	449.0	Sbd box	25.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.82943693836E+03		Apriori delay (usec)		6.8303394685E+03		Resid mbdelay (usec)		-6.38349E-03	+/- 1.8E-04
Sband delay (usec)	6.82943104935E+03		Apriori clock (usec)		-4.2469006E+00		Resid sbdelay (usec)		-9.02897E-01	+/- 1.5E-03
Phase delay (usec)	6.8303394223E+03		Apriori clockrate (us/s)		-4.0399999E-07		Resid phdelay (usec)		-4.61969E-06	+/- 6.3E-07
Delay rate (us/s)	-1.76410511605E+00		Apriori rate (us/s)		-1.76410826960E+00		Resid rate (us/s)		3.15354E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.82921395327E-05		Resid phase (deg)		-143.3	+/- 19.5

ph/seg (deg) 52.8 46.8 Search (2048X32) 0.099 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 77.5 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) 32.6 27.6 Inc. seg. avg. 0.109 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 36.5 48.1 Inc. frq. avg. 0.106 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 239.9 el 46.7 pa 35.9 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 10702.943 864.838 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Bp..190POF Output file: /Exps/c201c/v1/1234/No0032/Bp.W.46.190POF

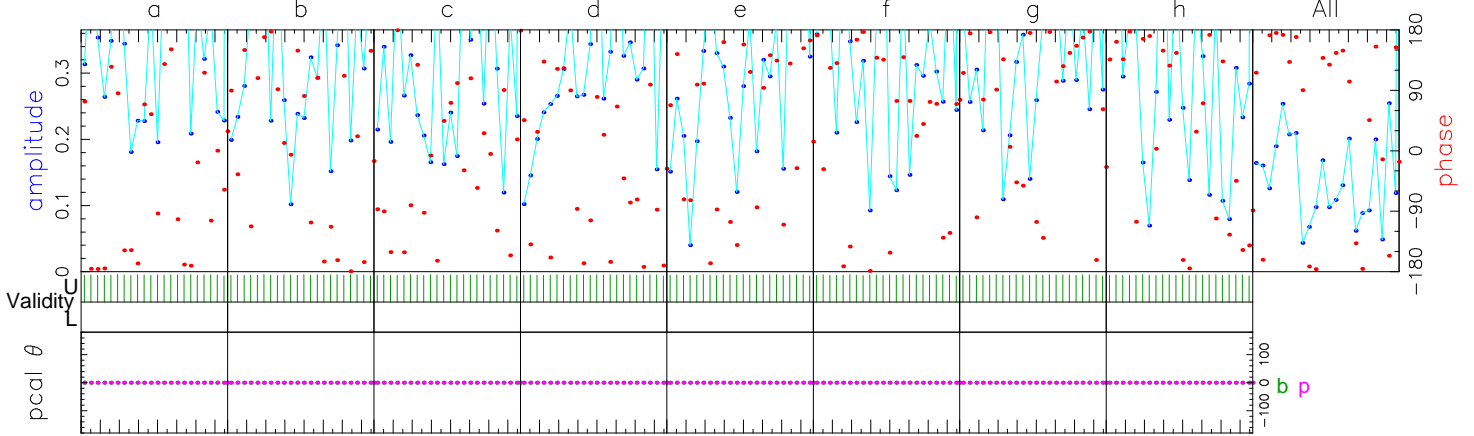


Fringe quality 0

SNR 6.3
Int time 431.619
Amp 0.122
Phase 157.5
PFD 8.9e-02
Delays (us)
SBD 0.988192
MBD -0.004493
Fringe rate (Hz)
-0.470238
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

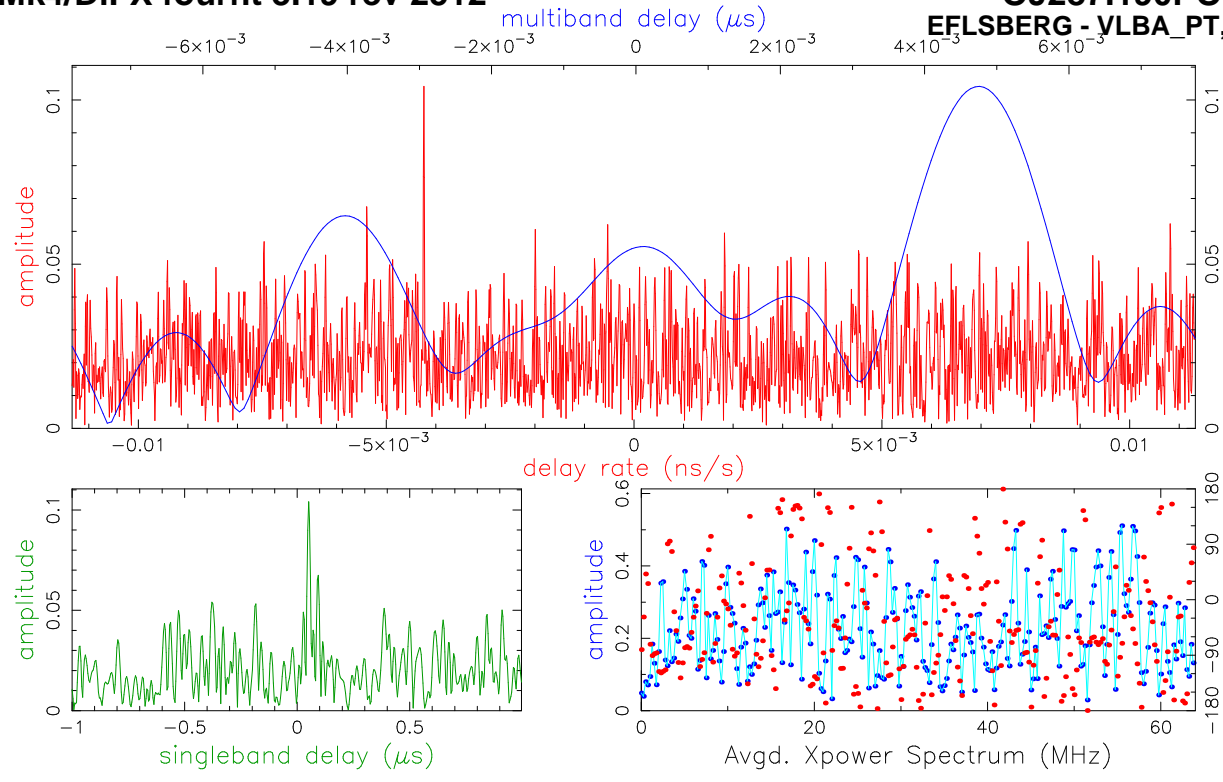
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210527
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



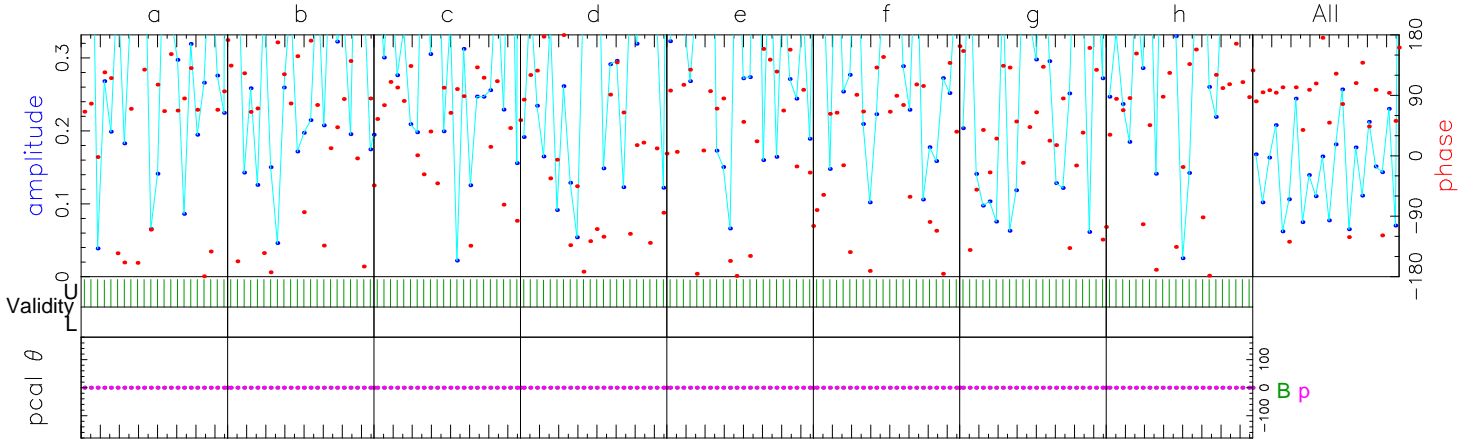
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
163.8	147.1	-90.2	132.4	152.9	142.5	160.7	168.1	168.1	Phase	157.5
0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	Ampl.	0.1
461.2	320.7	232.0	271.3	102.2	177.7	509.2	510.1	510.1	Sbd box	510.0
U/L 859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p 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	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000		
b W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
p W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.19748297937E+03		Apriori delay (usec)	-2.19847848636E+03		Resid mbdelay (usec)	-4.49301E-03		+/-	1.7E-04
Sband delay (usec)	-2.19749029461E+03		Apriori clock (usec)	-1.8697998E+01		Resid sbdelay (usec)	9.88192E-01		+/-	1.4E-03
Phase delay (usec)	-2.19847848128E+03		Apriori clockrate (us/s)	-2.4600000E-07		Resid phdelay (usec)	5.07905E-06		+/-	5.9E-07
Delay rate (us/s)	-1.90189997224E-01		Apriori rate (us/s)	-1.90184538228E-01		Resid rate (us/s)	-5.45900E-06		+/-	2.3E-09
Total phase (deg)		-136.0	Apriori accel (us/s/s)	1.85858257494E-05		Resid phase (deg)	157.5		+/-	18.3

ph/seg (deg) 54.3 43.8 Search (2048X32) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 69.3 76.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 47.9 25.8 Inc. seg. avg. 0.121 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 34.3 45.1 Inc. frq. avg. 0.123 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 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 1187.815 2032.902 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bp..190POF Output file: /Exps/c201c/v1/1234/No0032/bp.W.56.190POF



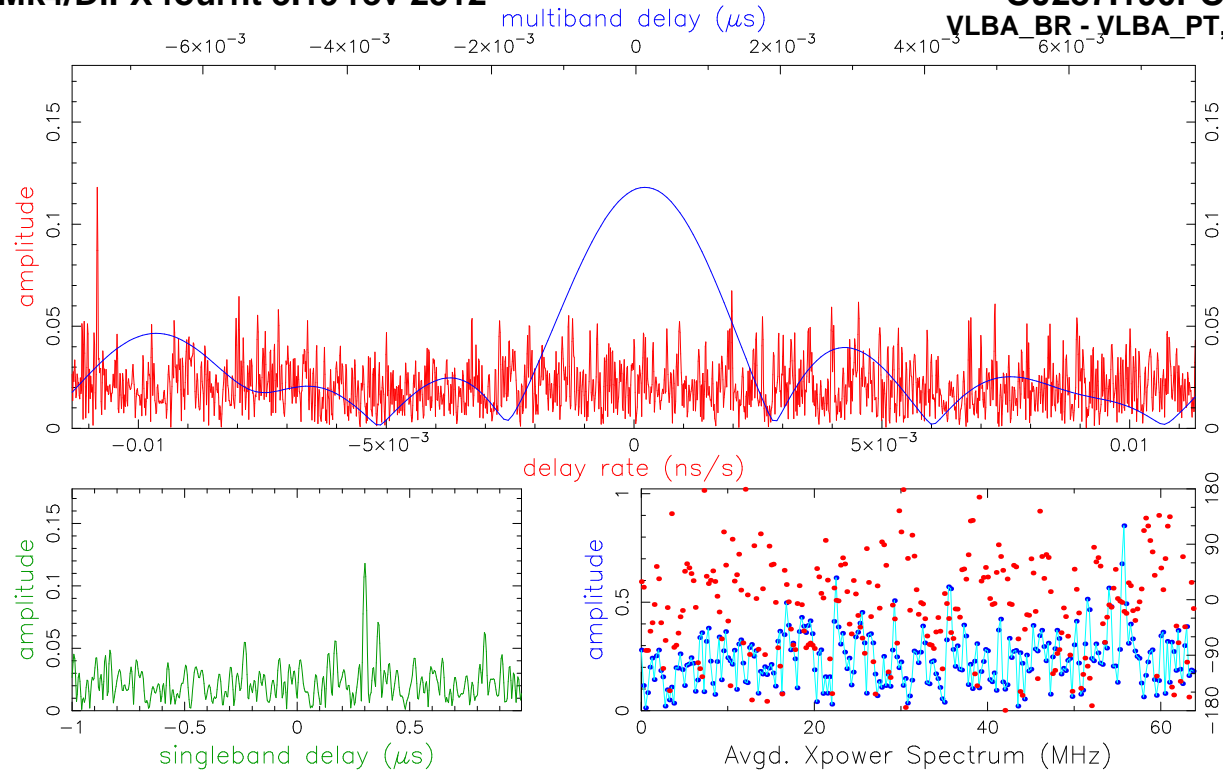
Fringe quality 0
SNR 6.0
Int time 438.936
Amp 0.111
Phase 99.7
PFD 4.5e-01
Delays (us)
SBD 0.051220
MBD 0.004758
Fringe rate (Hz)
-0.365363
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
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, 39 APs / seg (19.97 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	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:p	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		
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	6.83038558032E+03		Apriori delay (usec)		6.8303394685E+03		Resid mbdelay (usec)		4.75848E-03	+/- 1.8E-04
Sband delay (usec)	6.83038516710E+03		Apriori clock (usec)		-4.2469006E+00		Resid sbdelay (usec)		5.12202E-02	+/- 1.4E-03
Phase delay (usec)	6.8303395006E+03		Apriori clockrate (us/s)		-4.0399999E-07		Resid phdelay (usec)		3.21484E-06	+/- 6.2E-07
Delay rate (us/s)	-1.76411251109E+00		Apriori rate (us/s)		-1.76410826960E+00		Resid rate (us/s)		-4.24150E-06	+/- 2.4E-09
Total phase (deg)	164.9		Apriori accel (us/s/s)		-2.82921395327E-05		Resid phase (deg)		99.7	+/- 19.2

ph/seg (deg) 59.4 46.0 Amplitude 0.111 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.7 80.3 Search (2048X32) 0.100 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 54.6 27.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 48.4 47.3 Inc. seg. avg. 0.118 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 239.9 el 46.7 pa 35.9 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 10702.943 864.838 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Bp..190POF Output file: /Exps/c201c/v1/1234/No0032/Bp.W.62.190POF

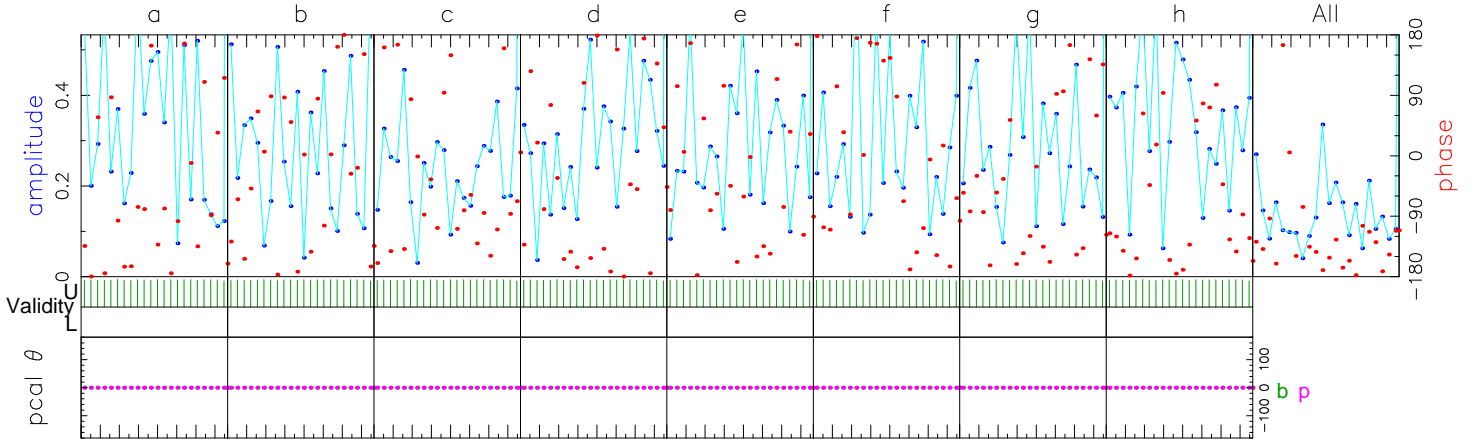


Fringe quality 0

SNR 6.7
Int time 431.619
Amp 0.178
Phase -143.3
PFD 5.7e-03
Delays (us)
SBD 0.300817
MBD 0.000126
Fringe rate (Hz)
-0.933922
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210532
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

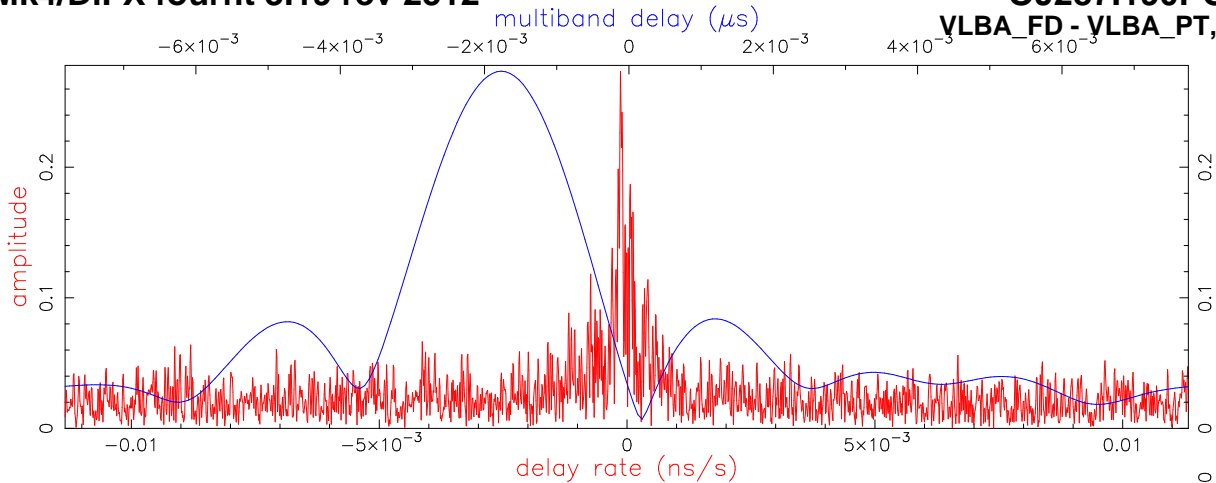


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-146.1	-146.0	-123.0	-160.9	-120.7	-163.0	-135.4	-140.3	Phase	-143.3
	0.3	0.1	0.2	0.2	0.1	0.2	0.2	0.2	Ampl.	0.2
	469.7	482.1	160.9	334.8	78.2	180.7	5.0	43.7	Sbd box	334.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.19818148535E+03		Apriori delay (usec)		-2.19847848636E+03		Resid mbdelay (usec)		1.26007E-04	+/- 1.6E-04
Sband delay (usec)	-2.19817766911E+03		Apriori clock (usec)		-1.8697998E+01		Resid sbdelay (usec)		3.00817E-01	+/- 1.3E-03
Phase delay (usec)	-2.19847849098E+03		Apriori clockrate (us/s)		-2.4600000E-07		Resid phdelay (usec)		-4.62136E-06	+/- 5.5E-07
Delay rate (us/s)	-1.90195380132E-01		Apriori rate (us/s)		-1.90184538228E-01		Resid rate (us/s)		-1.08419E-05	+/- 2.2E-09
Total phase (deg)			Apriori accel (us/s/s)		1.85858257494E-05		Resid phase (deg)		-143.3	+/- 17.1

ph/seg (deg) 42.7 41.0 Search (2048X32) 0.114 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 66.8 71.5 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 24.2 Inc. seg. avg. 0.167 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 26.4 42.2 Inc. frq. avg. 0.169 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 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 1187.815 2032.902 simultaneous interpolator

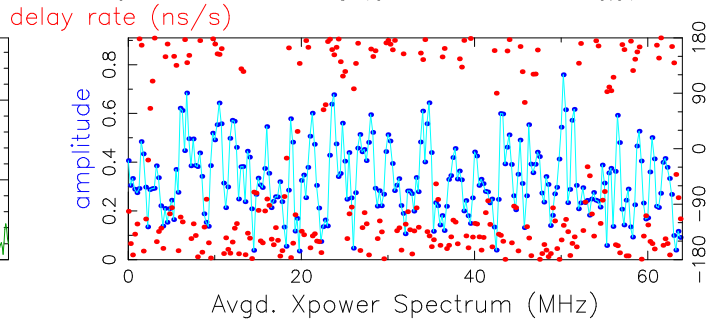
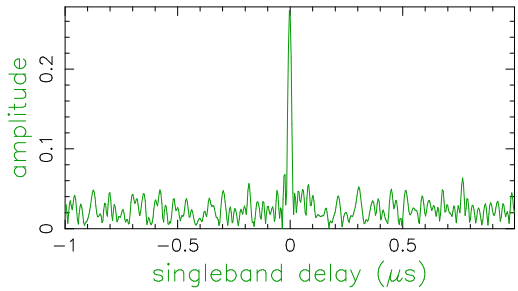
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, fp
VLBA_FD - VLBA_PT, fgroup W, pol RR



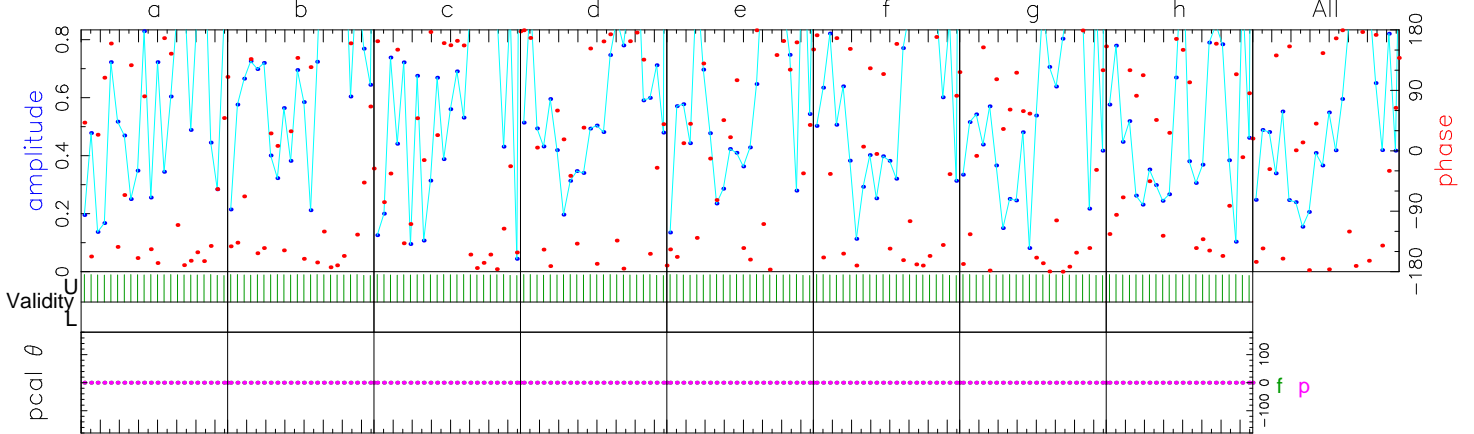
Fringe quality 9

SNR 15.8
Int time 434.375
Amp 0.278
Phase -168.8
PFD 0.0e+00
Delays (us)
SBD -0.002288
MBD -0.001726
Fringe rate (Hz)
-0.011348
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



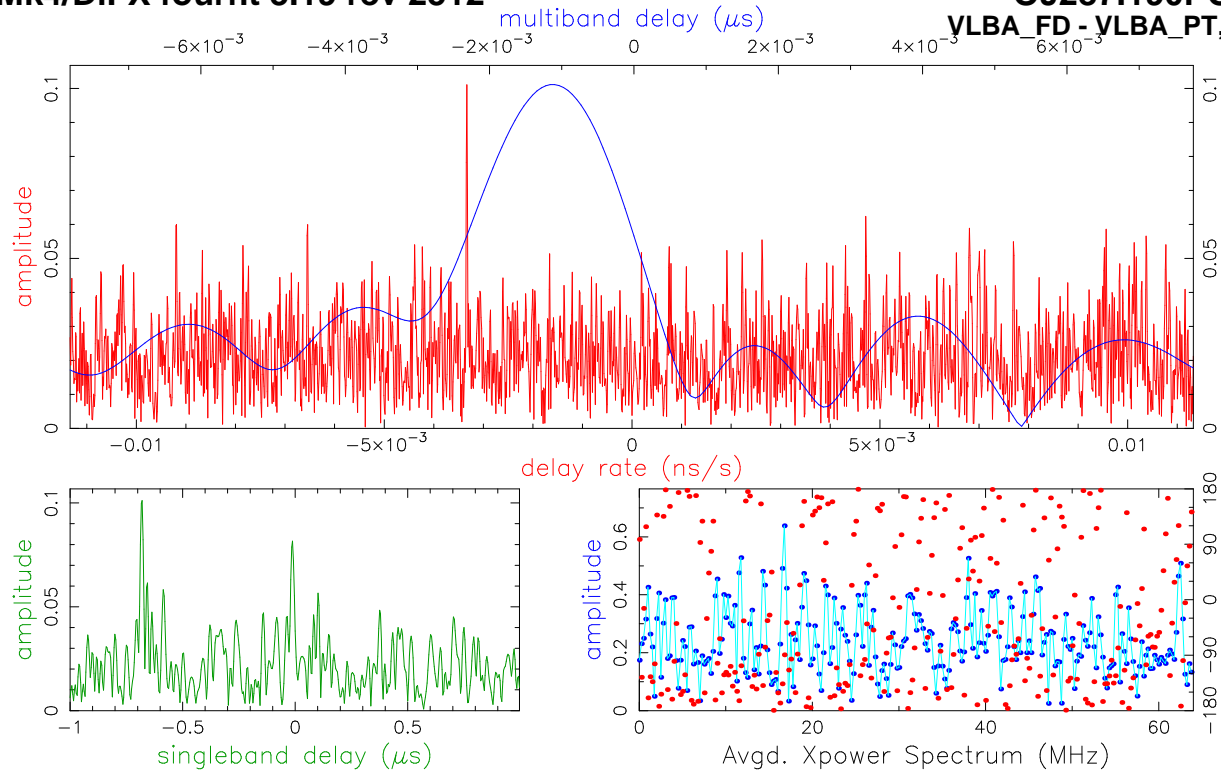
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210540
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 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
	-171.0	-154.3	-166.5	177.7	176.4	-162.2	-172.1	-169.5	Phase	-168.8
	0.3	0.4	0.3	0.3	0.2	0.3	0.3	0.2	Ampl.	0.3
	255.6	256.4	256.6	255.9	256.8	256.8	256.8	256.9	Sbd box	256.4
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	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	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	9.71322794478E+02		Apriori delay (usec)		9.71324520485E+02		Resid mbdelay (usec)		-1.72601E-03	+/- 6.8E-05
Sband delay (usec)	9.71322232485E+02		Apriori clock (usec)		-1.3379377E+01		Resid sbdelay (usec)		-2.28800E-03	+/- 5.4E-04
Phase delay (usec)	9.71324515042E+02		Apriori clockrate (us/s)		-9.4999990E-08		Resid phdelay (usec)		-5.44300E-06	+/- 2.3E-07
Delay rate (us/s)	2.05303427956E-02		Apriori rate (us/s)		2.05304745328E-02		Resid rate (us/s)		-1.31737E-07	+/- 9.2E-10
Total phase (deg)			Apriori accel (us/s/s)		-7.32274490597E-06		Resid phase (deg)		-168.8	+/- 7.2

ph/seg (deg) 82.4 17.3 Search (2048X32) 0.267 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 122.2 30.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 10.6 10.2 Inc. seg. avg. 0.490 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 26.8 17.8 Inc. frq. avg. 0.273 Sample rate(MISamp/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 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) -136.622 -658.543 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fp..190POF Output file: /Exps/c201c/v1/1234/No0032/fp.W.101.190POF

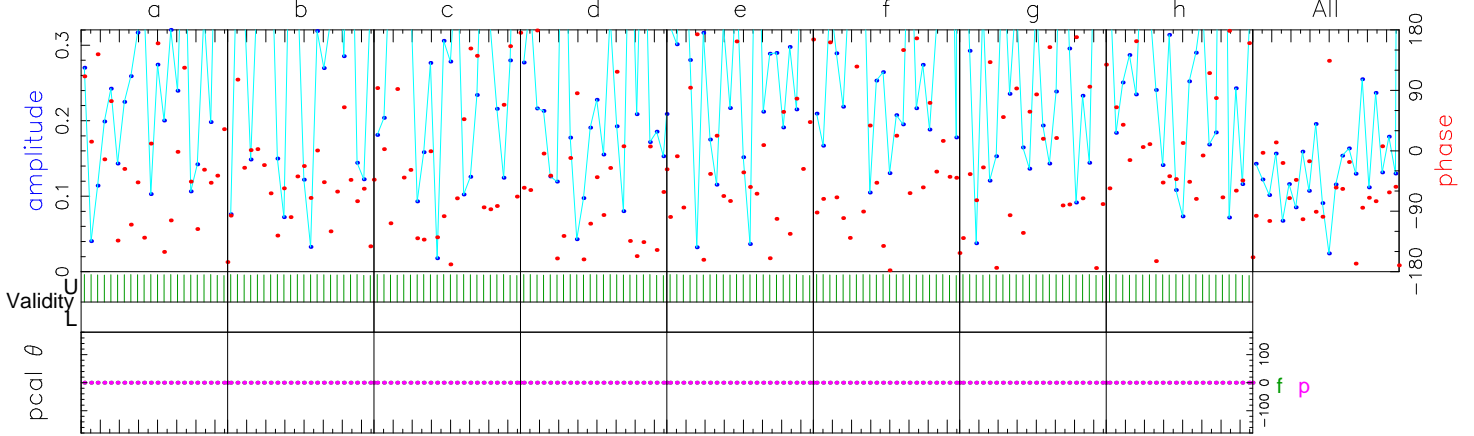


Fringe quality 0

SNR 5.9
Int time 434.375
Amp 0.107
Phase -63.4
PFD 6.6e-01
Delays (us)
SBD -0.681373
MBD -0.001168
Fringe rate (Hz)
-0.287027
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210545
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 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
	-51.3	-47.6	-77.7	-99.1	-61.1	-70.0	-82.4	-34.5	Phase	-63.4
	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.1	Ampl.	0.1
	113.1	107.8	381.2	379.5	78.1	460.5	286.6	88.6	Sbd box	82.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	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	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	9.70635852390E+02		Apriori delay (usec)		9.71324520485E+02		Resid mbdelay (usec)		-1.16810E-03	+/- 1.8E-04
Sband delay (usec)	9.70643146985E+02		Apriori clock (usec)		-1.3379377E+01		Resid sbdelay (usec)		-6.81373E-01	+/- 1.5E-03
Phase delay (usec)	9.71324518440E+02		Apriori clockrate (us/s)		-9.4999990E-08		Resid phdelay (usec)		-2.04445E-06	+/- 6.3E-07
Delay rate (us/s)	2.05271424343E-02		Apriori rate (us/s)		2.05304745328E-02		Resid rate (us/s)		-3.33210E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		-7.32274490597E-06		Resid phase (deg)		-63.4	+/- 19.5

ph/seg (deg) 54.8 46.8
amp/seg (%) 72.0 81.7
ph/frq (deg) 22.8 27.6
amp/frq (%) 38.9 48.2

RMS Theor. Amplitude 0.107 +/- 0.018
Search (2048X32) 0.100
Interp. 0.000
Inc. seg. avg. 0.106
Inc. frq. avg. 0.100

Group delay (usec)(sbd) 9.70635852390E+02
Sband delay (usec) 9.70643146985E+02
Phase delay (usec) 9.71324518440E+02
Delay rate (us/s) 2.05271424343E-02
Total phase (deg) 6.6

Apriori delay (usec) 9.71324520485E+02
Apriori clock (usec) -1.3379377E+01
Apriori clockrate (us/s) -9.4999990E-08
Apriori rate (us/s) 2.05304745328E-02
Apriori accel (us/s/s) -7.32274490597E-06

Resid mbdelay (usec) -1.16810E-03
Resid sbdelay (usec) -6.81373E-01
Resid phdelay (usec) -2.04445E-06
Resid rate (us/s) -3.33210E-06
Resid phase (deg) -63.4

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MISamp/s): 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

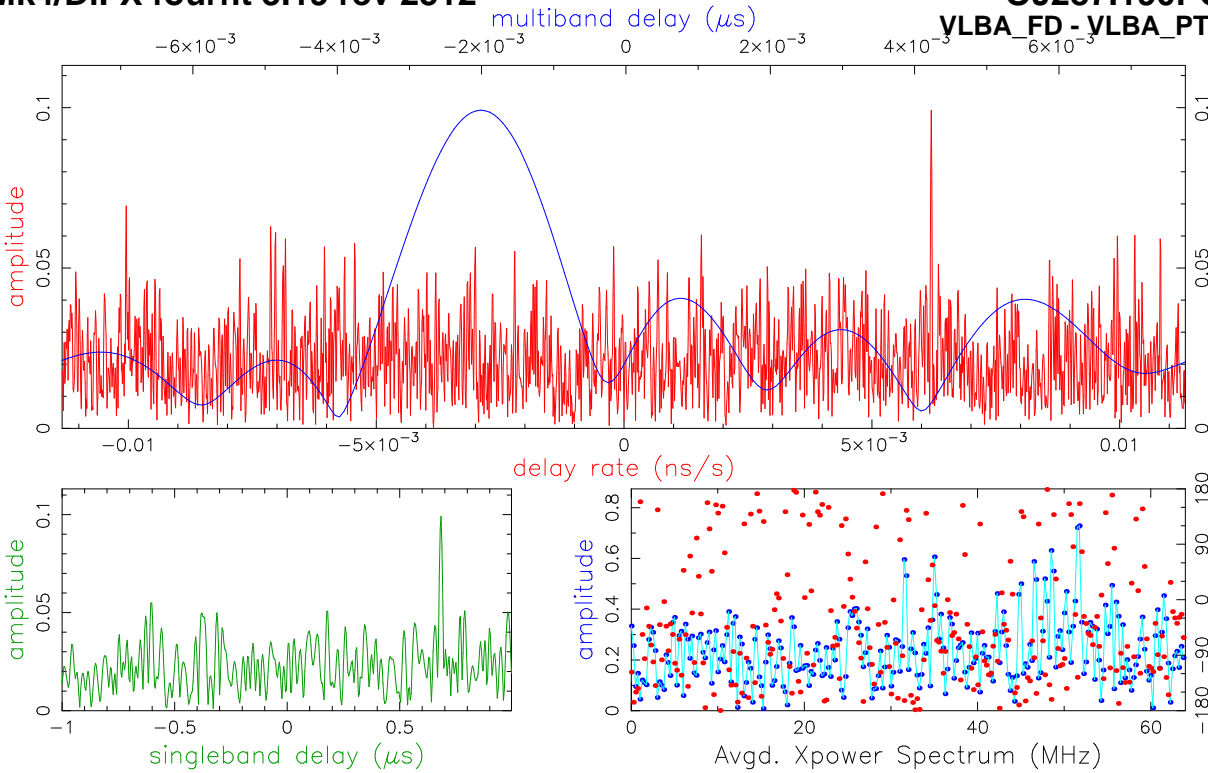
f: az 80.8 el 25.4 pa -64.7
p: az 80.5 el 22.5 pa -60.3
u,v (fr/asec) -136.622 -658.543

simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fp..190POF Output file: /Exps/c201c/v1/1234/No0032/fp.W.120.190POF

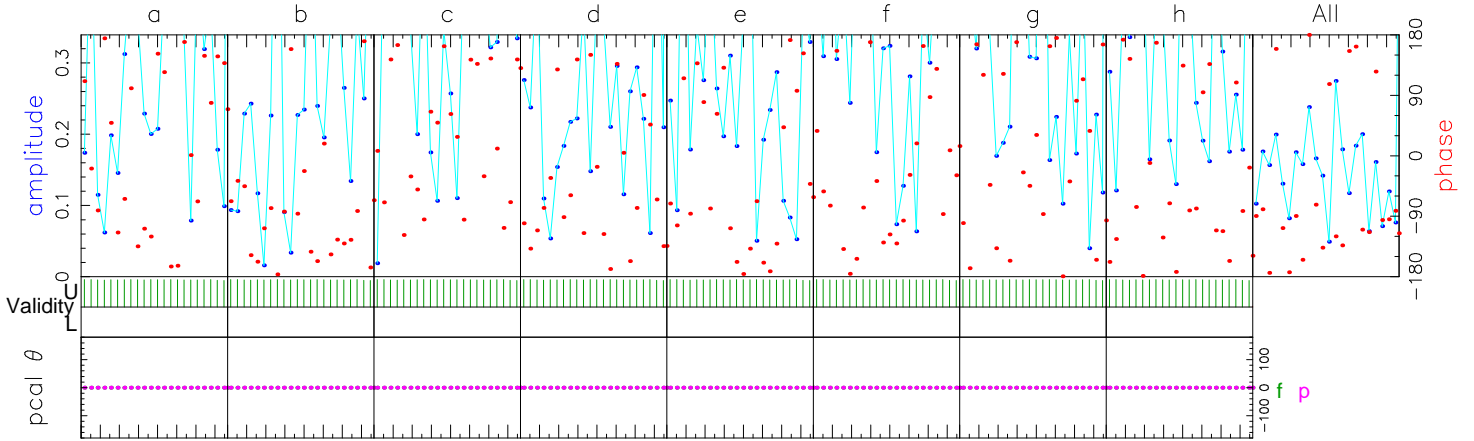
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, fp
VLBA_FD - VLBA_PT, fgroup W, pol RL



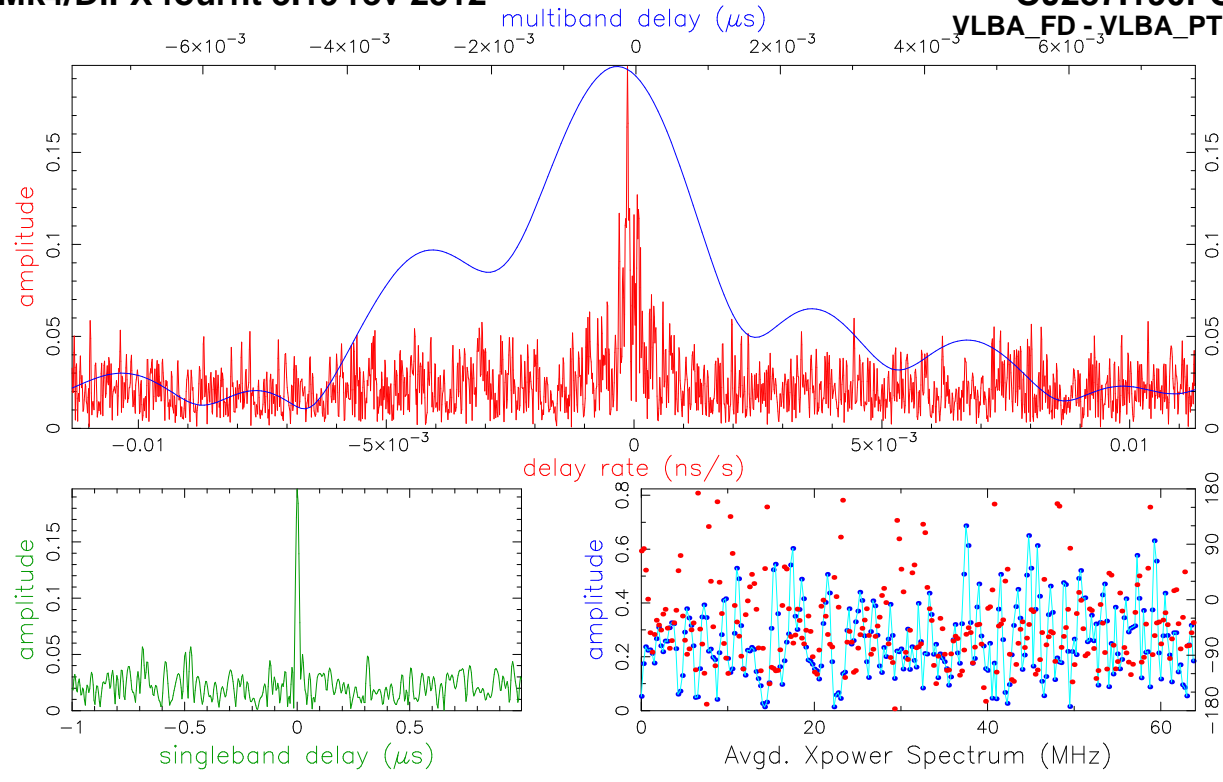
Fringe quality 0
SNR 5.7
Int time 434.375
Amp 0.113
Phase -137.8
PFD 9.6e-01
Delays (us)
SBD 0.682733
MBD -0.002037
Fringe rate (Hz) 0.534983
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210549
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 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
	-179.1	-131.3	-135.0	-108.8	-168.2	-113.0	-152.8	-139.6	Phase	-137.8
	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	184.9	432.1	279.2	239.0	408.6	324.4	494.0	452.2	Sbd box	431.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	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	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	9.72009983148E+02		Apriori delay (usec)		9.71324520485E+02		Resid mbdelay (usec)		-2.03734E-03	+/- 1.9E-04
Sband delay (usec)	9.72007252985E+02		Apriori clock (usec)		-1.3379377E+01		Resid sbdelay (usec)		6.82733E-01	+/- 1.5E-03
Phase delay (usec)	9.71324516040E+02		Apriori clockrate (us/s)		-9.4999990E-08		Resid phdelay (usec)		-4.44482E-06	+/- 6.5E-07
Delay rate (us/s)	2.05366851608E-02		Apriori rate (us/s)		2.05304745328E-02		Resid rate (us/s)		6.21063E-06	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		-7.32274490597E-06		Resid phase (deg)		-137.8	+/- 20.2

RMS Theor. Amplitude 0.113 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 52.6 48.4 Search (2048X32) 0.098 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 75.2 84.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 27.0 28.5 Inc. seg. avg. 0.123 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 34.1 49.8 Inc. frq. avg. 0.108 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 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) -136.622 -658.543 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fp..190POF Output file: /Exps/c201c/v1/1234/No0032/fp.W.138.190POF

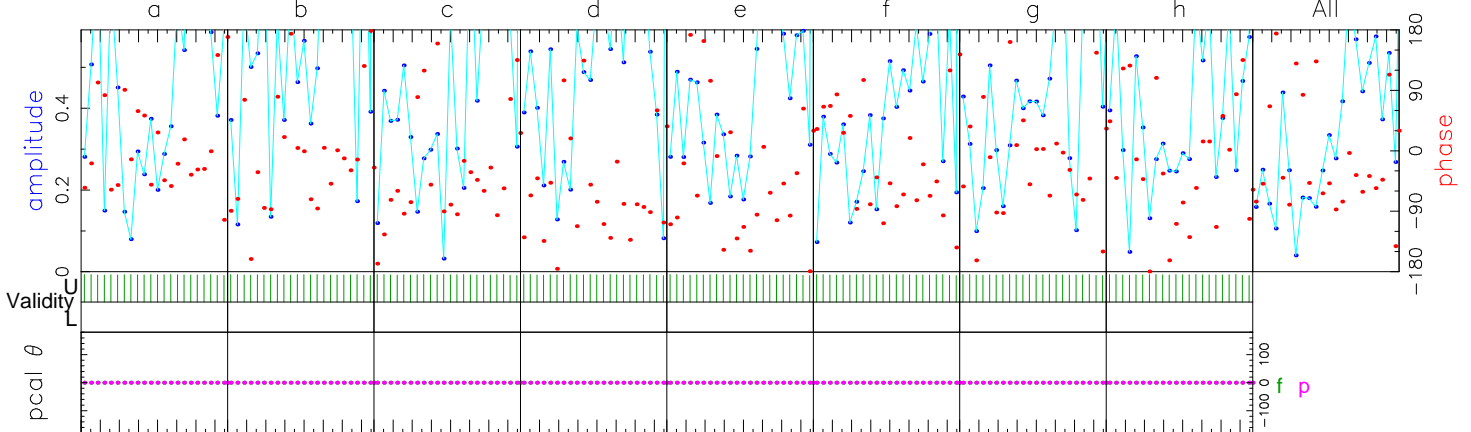


Fringe quality 9

SNR 11.2
Int time 434.375
Amp 0.197
Phase -46.6
PFD 1.2e-20
Delays (us)
SBD 0.000686
MBD -0.000246
Fringe rate (Hz)
-0.011458
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210536
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

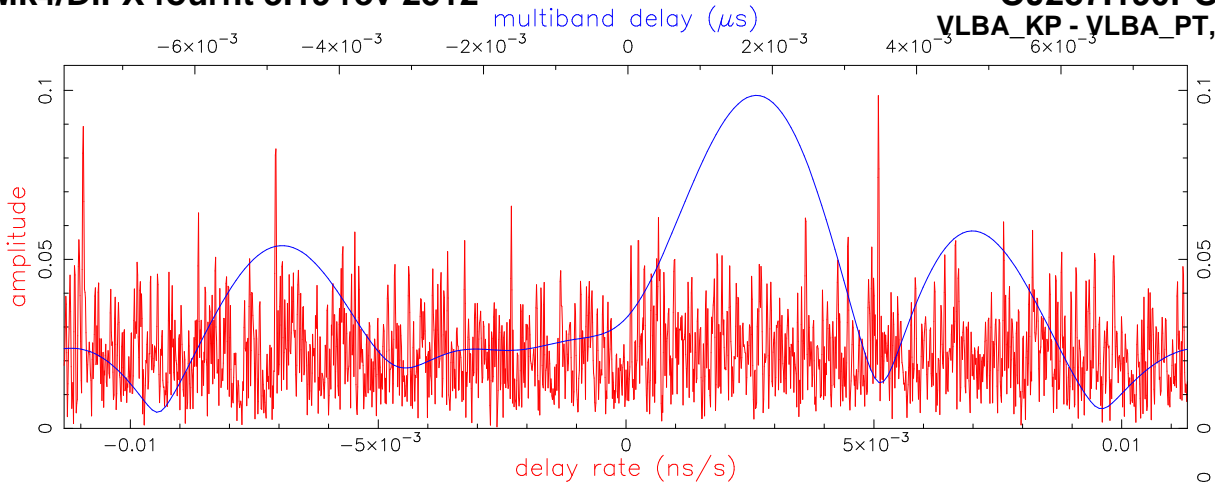


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-20.9	-21.3	-63.7	-86.5	-74.1	-41.3	-22.6	-21.0	Phase	-46.6
	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.1	Ampl.	0.2
	257.2	256.2	256.9	257.4	257.9	489.5	256.4	83.2	Sbd box	257.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	9.71324274260E+02		Apriori delay (usec)		9.71324520485E+02		Resid mbdelay (usec)		-2.46225E-04	+/- 9.7E-05
Sband delay (usec)	9.71325206735E+02		Apriori clock (usec)		-1.3379377E+01		Resid sbdelay (usec)		6.86250E-04	+/- 7.7E-04
Phase delay (usec)	9.71324518984E+02		Apriori clockrate (us/s)		-9.4999990E-08		Resid phdelay (usec)		-1.50135E-06	+/- 3.3E-07
Delay rate (us/s)	2.05303415139E-02		Apriori rate (us/s)		2.05304745328E-02		Resid rate (us/s)		-1.33019E-07	+/- 1.3E-09
Total phase (deg)			Apriori accel (us/s/s)		-7.32274490597E-06		Resid phase (deg)		-46.6	+/- 10.2

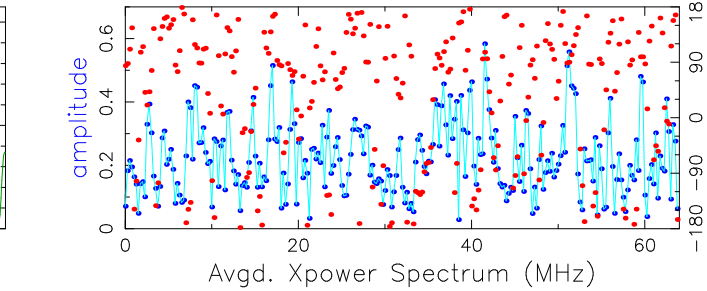
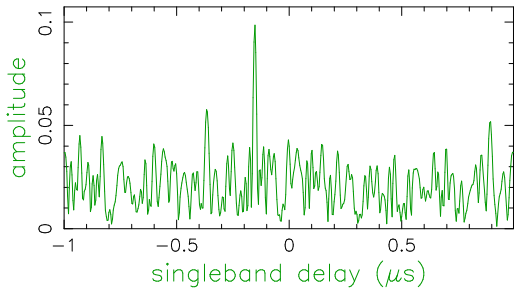
ph/seg (deg) 83.5 24.4 Search (2048X32) 0.192 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 109.0 42.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 29.4 14.4 Inc. seg. avg. 0.299 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 30.2 25.2 Inc. frq. avg. 0.213 Sample rate(MISamp/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 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) -136.622 -658.543 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fp..190POF Output file: /Exps/c201c/v1/1234/No0032/fp.W.85.190POF simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, kp
VLBA_KP - VLBA_PT, fgroup W, pol RR

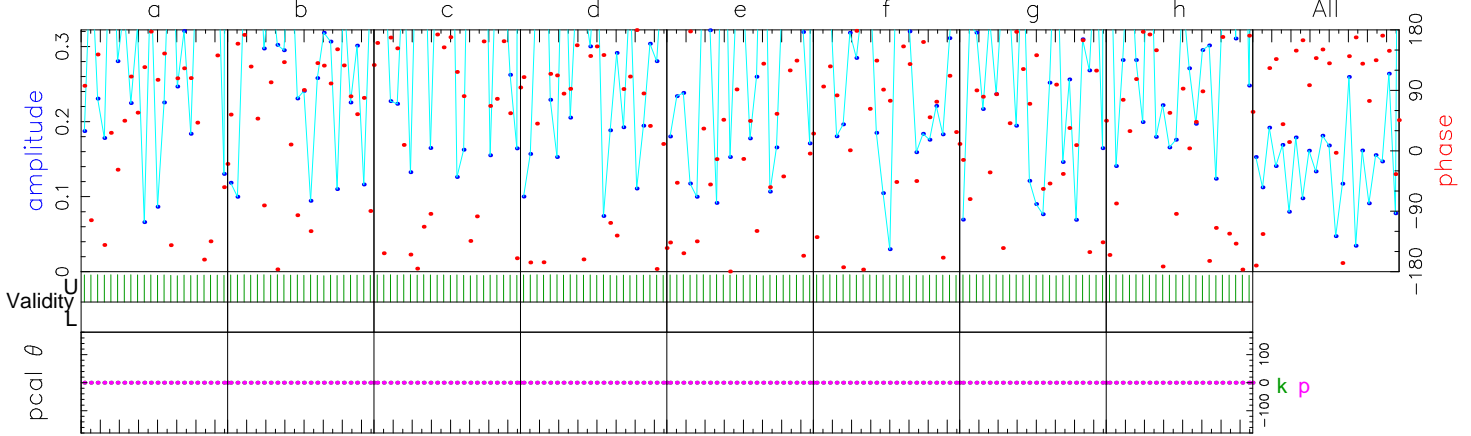


Fringe quality 0
SNR 5.6
Int time 430.627
Amp 0.107
Phase 138.3
PFD 9.9e-01
Delays (us)
SBD -0.152828
MBD 0.001753
Fringe rate (Hz)
0.439729
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210542
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"



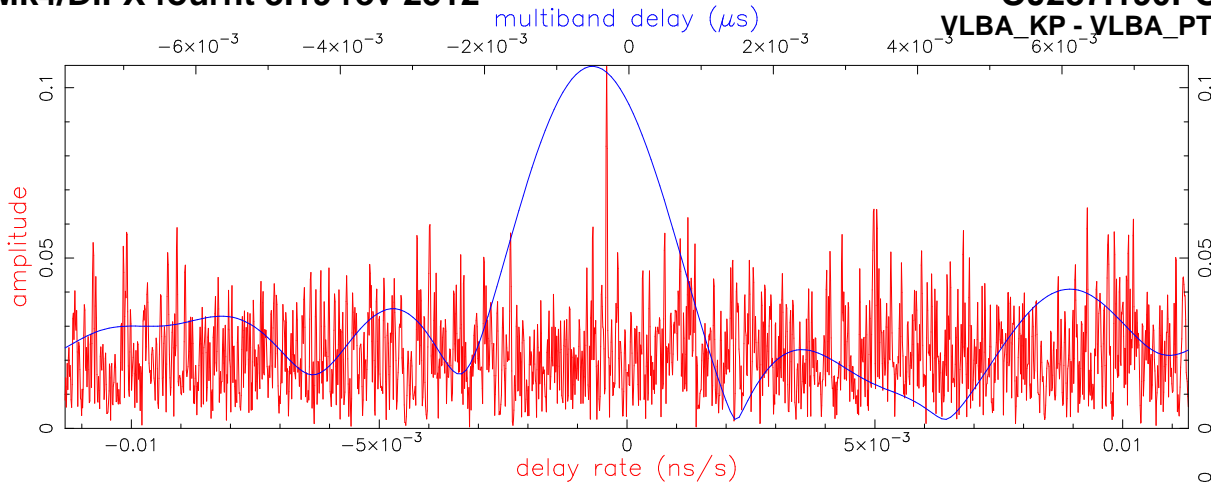
Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

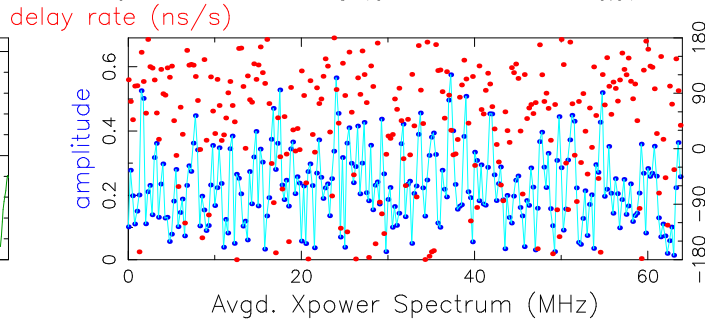
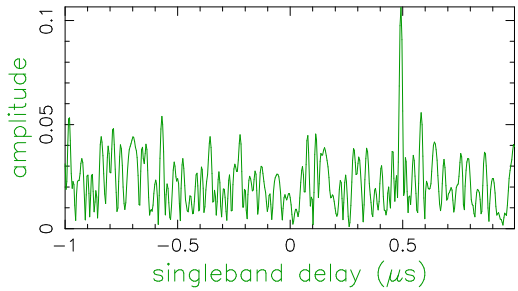


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.15523115772E+03									
Sband delay (usec)	-1.15522948844E+03									
Phase delay (usec)	-1.15507665623E+03									
Delay rate (us/s)	4.90167569250E-02									
Total phase (deg)			-60.4							
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)									138.3	+/- 20.5
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
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								

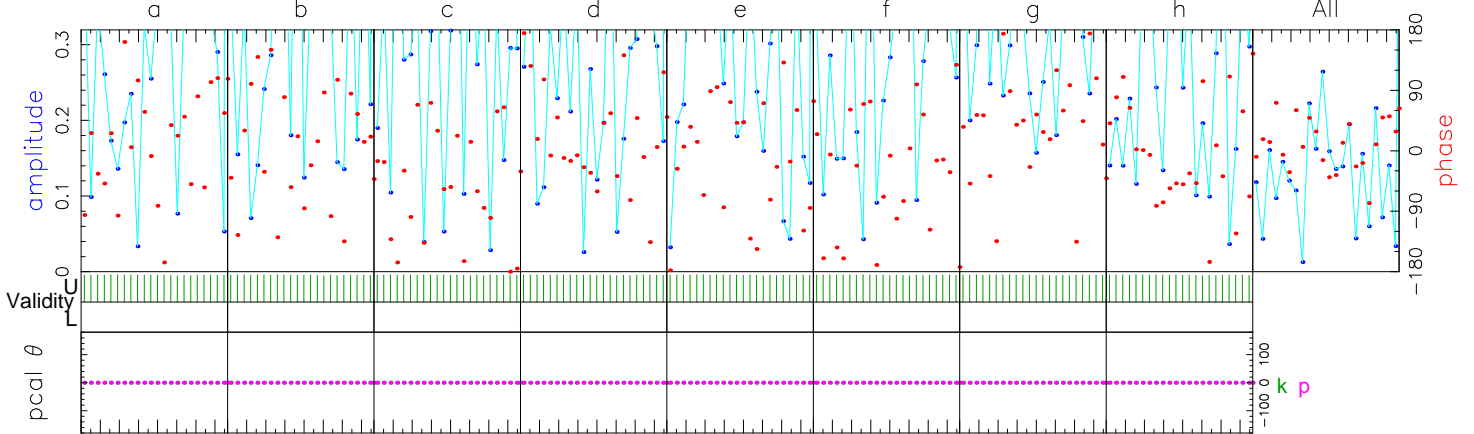
ph/seg (deg) 67.4 49.1 Search (2048X32) 0.096 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 76.5 85.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 41.5 28.9 Inc. seg. avg. 0.114 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 53.4 50.5 Inc. frq. avg. 0.111 Sample rate (MSamp/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 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) -290.464 -148.531 Data rate (TEC) 0.00 0.00 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kp..190POF Output file: /Exps/c201c/v1/1234/No0032/kp.W.110.190POF



Fringe quality 0
SNR 6.0
Int time 430.626
Amp 0.107
Phase 9.7
PFD 3.2e-01
Delays (us)
SBD 0.491642
MBD -0.000523
Fringe rate (Hz)
-0.034965
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
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"



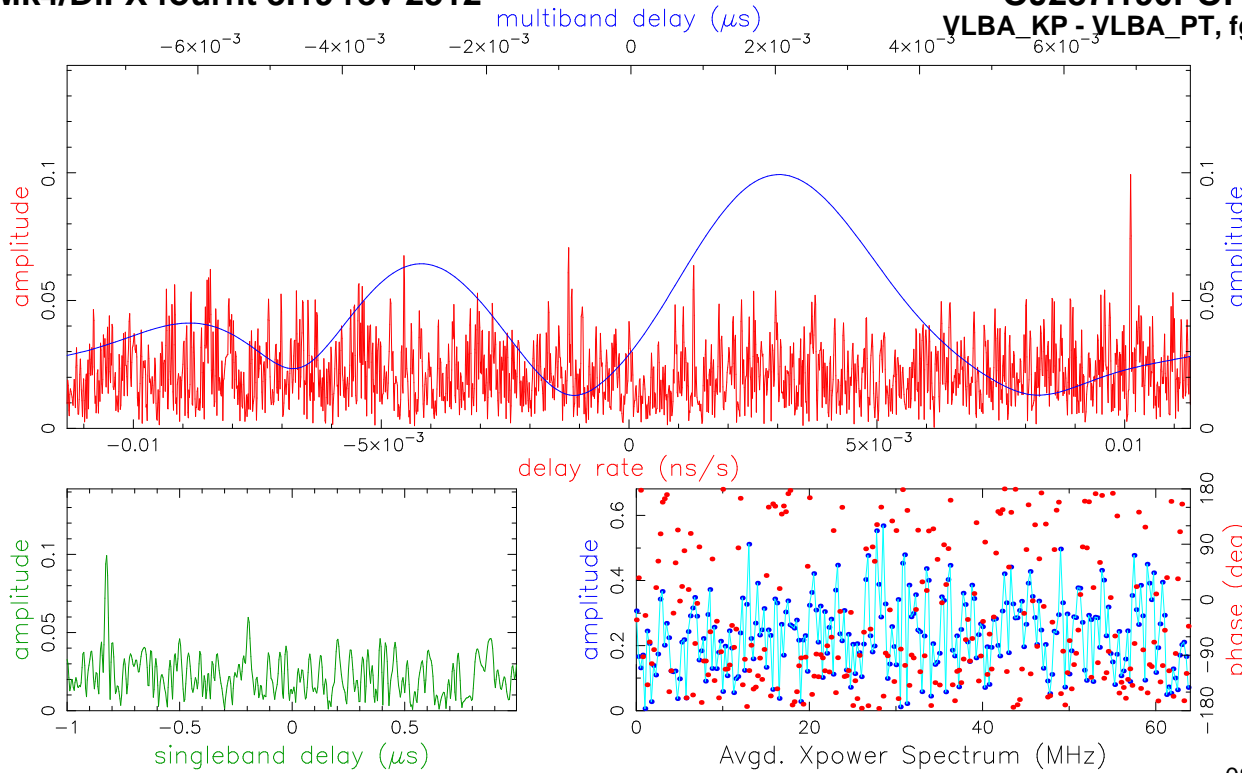
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-8.2	20.9	-8.0	17.8	16.5	-4.2	51.5	-20.0		Phase
	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2		Ampl.
	56.2	389.5	445.7	402.9	435.8	420.8	250.8	508.5		Sbd box
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		APs used
k	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
p	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
kp	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
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
										Tracks
Group delay (usec)(sbd)	-1.15459280880E+03		Apriori delay (usec)		-1.15507666069E+03		Resid mbdelay (usec)		-5.23109E-04	+/- 1.8E-04
Sband delay (usec)	-1.15458501894E+03		Apriori clock (usec)		-1.7630329E+01		Resid sbdelay (usec)		4.91642E-01	+/- 1.4E-03
Phase delay (usec)	-1.15507666038E+03		Apriori clockrate (us/s)		-1.9859999E-07		Resid phdelay (usec)		3.13036E-07	+/- 6.1E-07
Delay rate (us/s)	4.90112462074E-02		Apriori rate (us/s)		4.90116521110E-02		Resid rate (us/s)		-4.05904E-07	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		4.72291449984E-06		Resid phase (deg)		9.7	+/- 19.0

	RMS	Theor.	Amplitude	0.107 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	36.8	45.5	Search (2048X32)	0.102	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	64.6	79.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	24.8	26.8	Inc. seg. avg.	0.097	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	28.9	46.8	Inc. frq. avg.	0.105	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

k: az 77.9 el 19.2 pa -62.2 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) -290.464 -148.531 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kp..190POF Output file: /Exps/c201c/v1/1234/No0032/kp.W.128.190POF

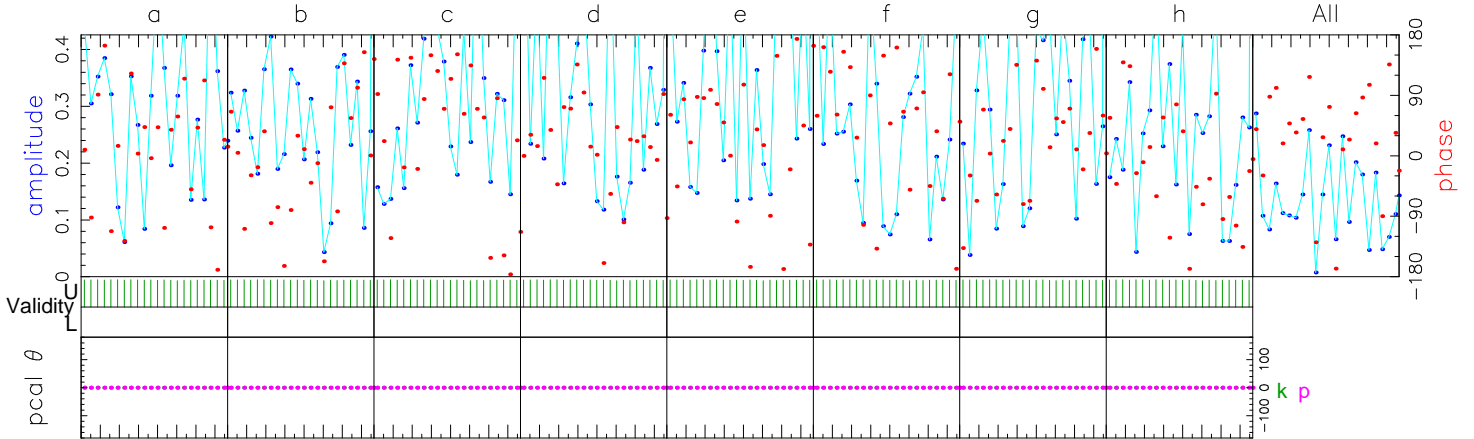


Fringe quality 0

SNR 5.7
Int time 430.628
Amp 0.142
Phase 54.1
PFD 9.8e-01
Delays (us)
SBD -0.825022
MBD 0.002060
Fringe rate (Hz)
0.873418
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
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, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



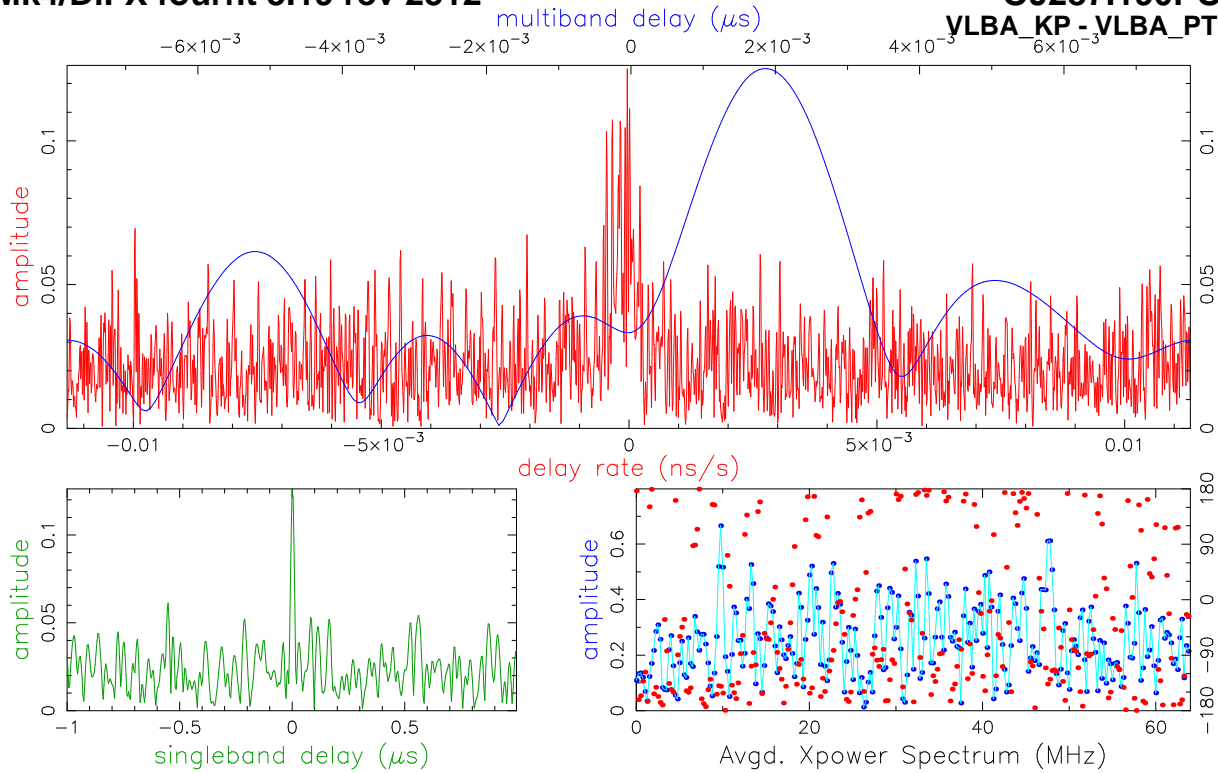
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.15590272556E+03	Apriori delay (usec)	-1.15507666069E+03	Resid mbdelay (usec)	2.06013E-03	+/-	1.9E-04
Sband delay (usec)	-1.15590168244E+03	Apriori clock (usec)	-1.7630329E+01	Resid sbdelay (usec)	-8.25022E-01	+/-	1.5E-03
Phase delay (usec)	-1.15507665895E+03	Apriori clockrate (us/s)	-1.9859999E-07	Resid phdelay (usec)	1.74551E-06	+/-	6.5E-07
Delay rate (us/s)	4.90217916308E-02	Apriori rate (us/s)	4.90116521110E-02	Resid rate (us/s)	1.01395E-05	+/-	2.6E-09
Total phase (deg)	-144.6	Apriori accel (us/s/s)	4.72291449984E-06	Resid phase (deg)	54.1	+/-	20.3

ph/seg (deg)	68.6	Theor.	48.6	Amplitude	0.142 +/- 0.025	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	82.3		84.8	Search (2048X32)	0.097	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	51.1		28.7	Inc. seg. avg.	0.143	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	60.6		50.0	Inc. frq. avg.	0.163	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

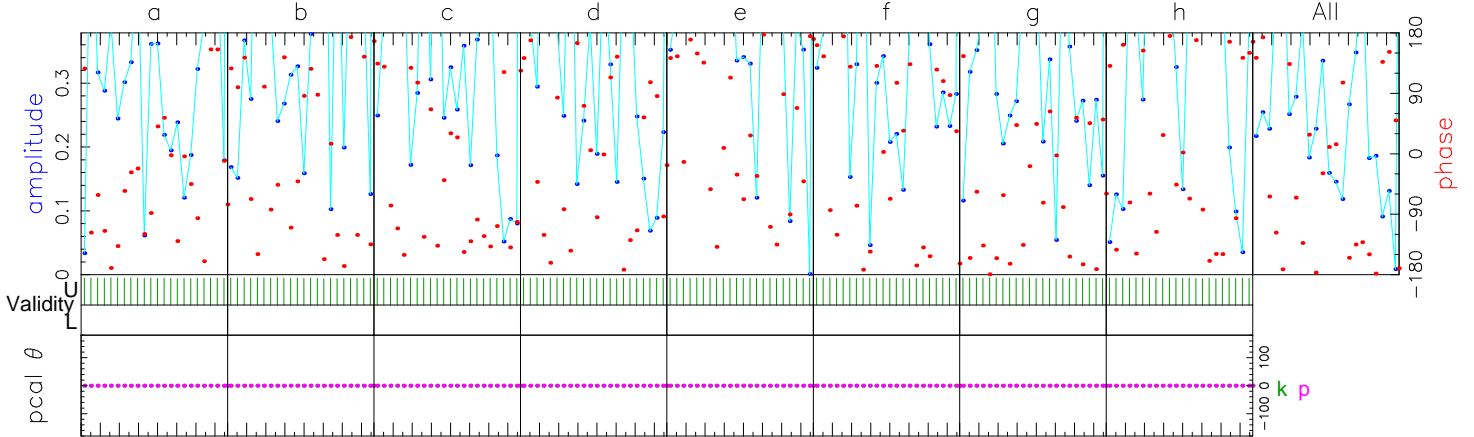
k: az 77.9 el 19.2 pa -62.2 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) -290.464 -148.531 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kp..190POF Output file: /Exps/c201c/v1/1234/No0032/kp.W.147.190POF



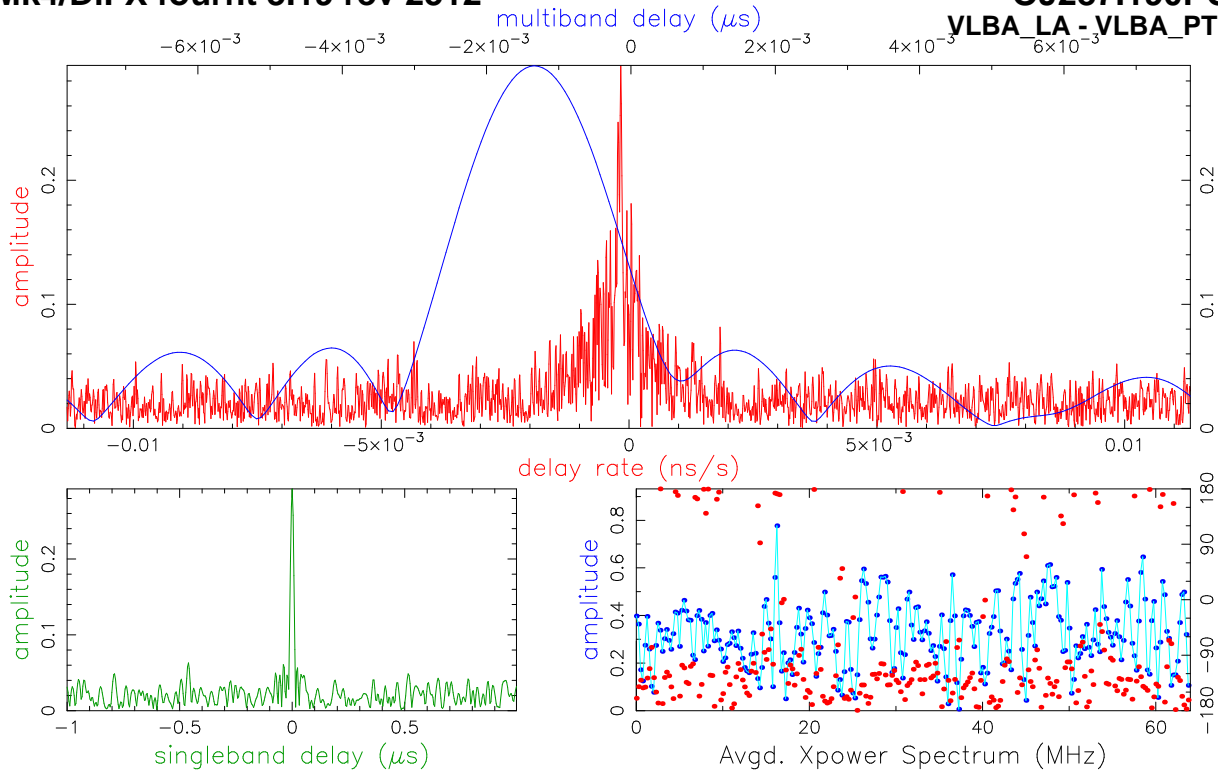
Fringe quality 0
SNR 7.2
Int time 430.626
Amp 0.126
Phase -146.9
PFD 2.4e-04
Delays (us)
SBD 0.001258
MBD 0.001905
Fringe rate (Hz)
-0.002763
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
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, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



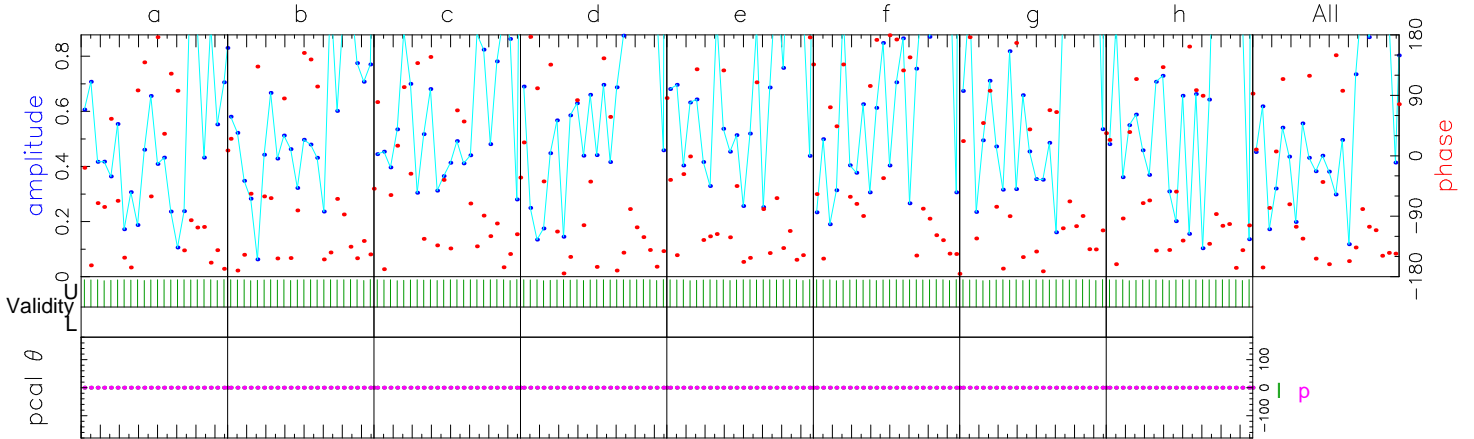
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.15507475540E+03				-1.15507666069E+03				1.90530E-03	+/- 1.5E-04
Sband delay (usec)	-1.15507540294E+03				-1.7630329E+01				1.25775E-03	+/- 1.2E-03
Phase delay (usec)	-1.15507666543E+03				-1.9859999E-07				-4.73766E-06	+/- 5.2E-07
Delay rate (us/s)	4.90116200346E-02				4.90116521110E-02				-3.20764E-08	+/- 2.0E-09
Total phase (deg)			-345.6		4.72291449984E-06				-146.9	+/- 16.0
	RMS	Theor.	Amplitude	0.126 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			sb window (us)	-1.000 1.000
ph/seg (deg)	88.7	38.3	Search (2048X32)	0.125	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				mb window (us)	-0.008 0.008
amp/seg (%)	147.8	66.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled			dr window (ns/s)	-0.011 0.011
ph/frq (deg)	34.5	22.6	Inc. seg. avg.	0.207	Sample rate(MISamp/s): 128				ion window (TEC)	0.00 0.00
amp/frq (%)	40.8	39.5	Inc. frq. avg.	0.130	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite				

k: az 77.9 el 19.2 pa -62.2 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) -290.464 -148.531 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kp..190POF Output file: /Exps/c201c/v1/1234/No0032/kp.W.95.190POF



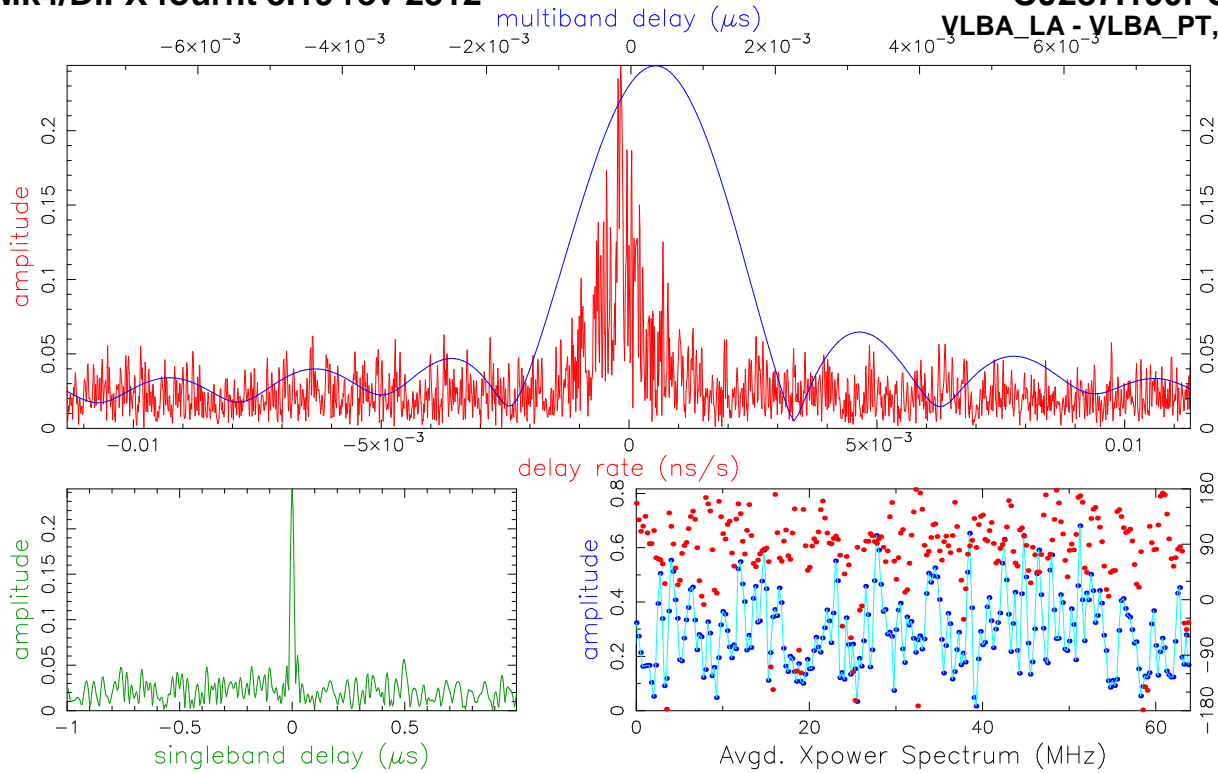
Fringe quality 9
SNR 16.7
Int time 433.031
Amp 0.293
Phase -129.8
PFD 0.0e+00
Delays (us)
SBD -0.000391
MBD -0.001347
Fringe rate (Hz)
-0.013958
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210547
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 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
	-121.6	-133.0	-130.2	-138.4	-128.2	-136.6	-122.0	-127.8	Phase	-129.8
	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	Ampl.	0.3
	256.8	256.7	257.0	256.8	257.2	257.4	256.3	257.1	Sbd box	256.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.63205747604E+02		Apriori delay (usec)		5.63207094127E+02		Resid mbdelay (usec)		-1.34652E-03	+/- 6.5E-05
Sband delay (usec)	5.63206703627E+02		Apriori clock (usec)		-2.1002937E+01		Resid sbdelay (usec)		-3.90500E-04	+/- 5.2E-04
Phase delay (usec)	5.63207089940E+02		Apriori clockrate (us/s)		-3.5499999E-07		Resid phdelay (usec)		-4.18704E-06	+/- 2.2E-07
Delay rate (us/s)	-3.16385172160E-02		Apriori rate (us/s)		-3.16383551802E-02		Resid rate (us/s)		-1.62036E-07	+/- 8.7E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.29403744075E-06		Resid phase (deg)		-129.8	+/- 6.9

ph/seg (deg) 71.0 16.5 Search (2048X32) 0.280 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 124.4 28.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 6.7 9.7 Inc. seg. avg. 0.516 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 17.5 17.0 Inc. frq. avg. 0.290 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 l: az 82.1 el 24.3 pa -58.9 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 188.769 108.250 ion window (TEC) 0.00 0.00
 simultaneous interpolator

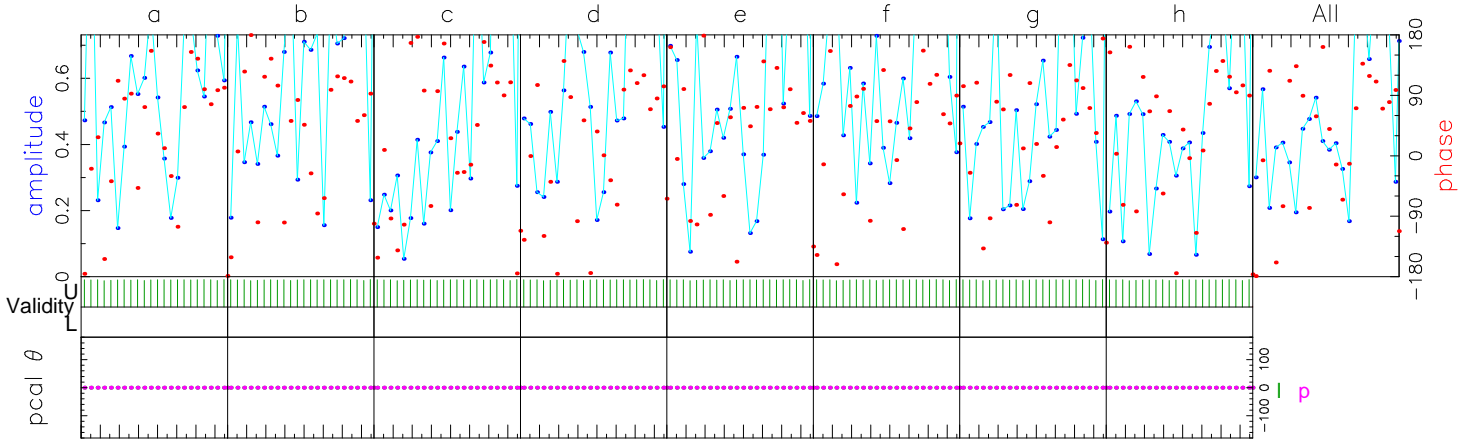


Fringe quality 9

SNR 13.9
Int time 433.033
Amp 0.244
Phase 90.1
PFD 5.2e-35
Delays (us)
SBD -0.000392
MBD 0.000322
Fringe rate (Hz) -0.014262
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
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, 39 APs / seg (19.97 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	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	0:0
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	0:0
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	5.63207416447E+02		Apriori delay (usec)		5.63207094127E+02		Resid mbdelay (usec)		3.22320E-04	+/- 7.8E-05
Sband delay (usec)	5.63206701877E+02		Apriori clock (usec)		-2.1002937E+01		Resid sbdelay (usec)		-3.92250E-04	+/- 6.2E-04
Phase delay (usec)	5.63207097033E+02		Apriori clockrate (us/s)		-3.5499999E-07		Resid phdelay (usec)		2.90569E-06	+/- 2.7E-07
Delay rate (us/s)	-3.16385207495E-02		Apriori rate (us/s)		-3.16383551802E-02		Resid rate (us/s)		-1.65569E-07	+/- 1.0E-09
Total phase (deg)	121.8		Apriori accel (us/s/s)		-2.29403744075E-06		Resid phase (deg)		90.1	+/- 8.3

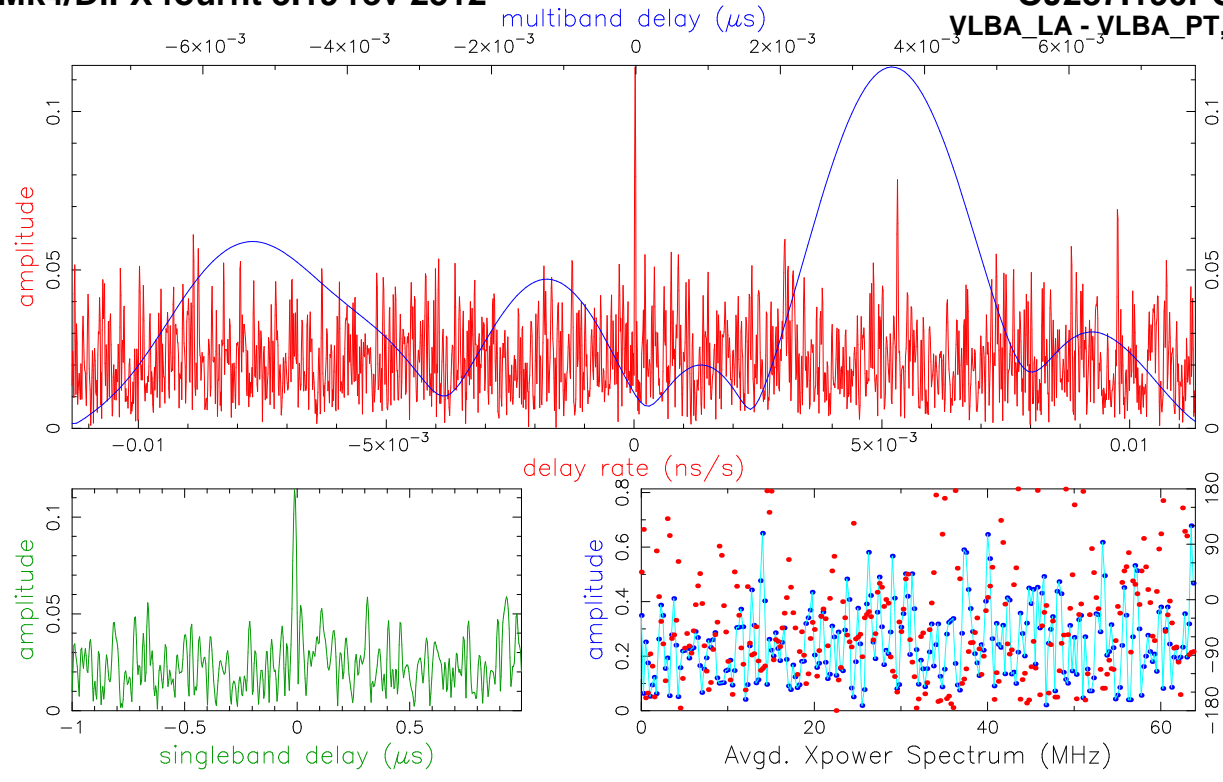
ph/seg (deg) 81.8 19.8
amp/seg (%) 148.8 34.6
ph/frq (deg) 11.4 11.7
amp/frq (%) 11.6 20.4

RMS Theor. Amplitude 0.244 +/- 0.018
Search (2048X32) 0.239
Interp. 0.000
Inc. seg. avg. 0.476
Inc. frq. avg. 0.242

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

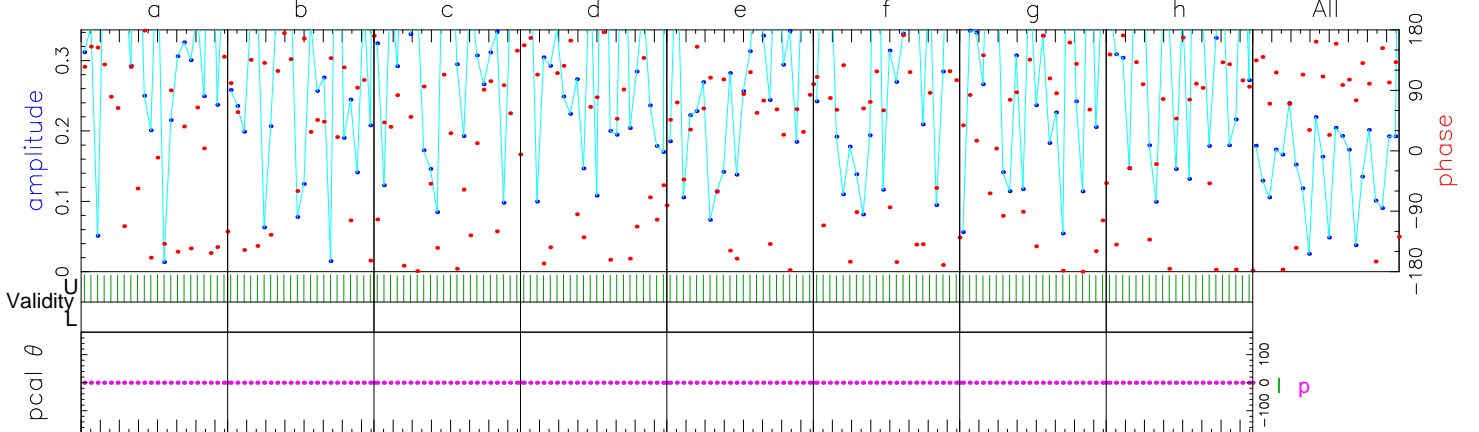
sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

l: az 82.1 el 24.3 pa -58.9 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 188.769 108.250 simultaneous interpolator



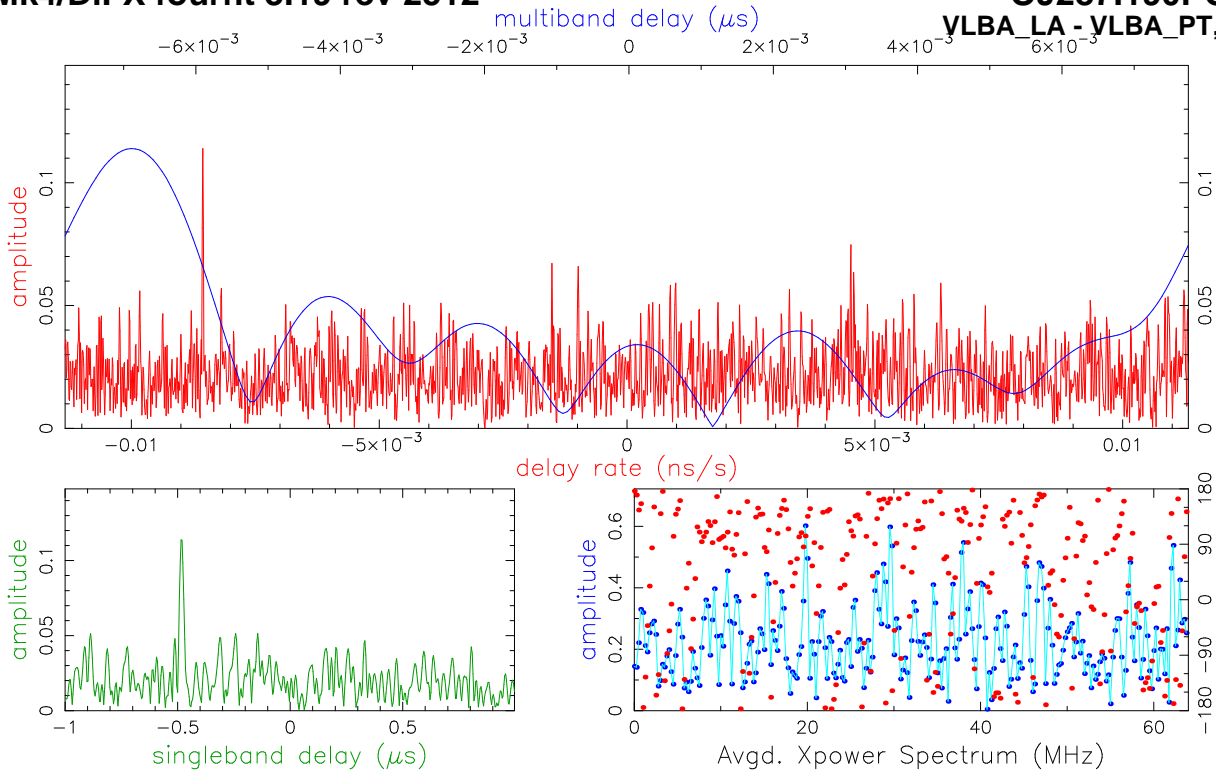
Fringe quality 0
SNR 6.5
Int time 433.031
Amp 0.115
Phase 125.2
PFD 2.0e-02
Delays (us)
SBD -0.010800
MBD 0.003558
Fringe rate (Hz) 0.002321
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210555
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



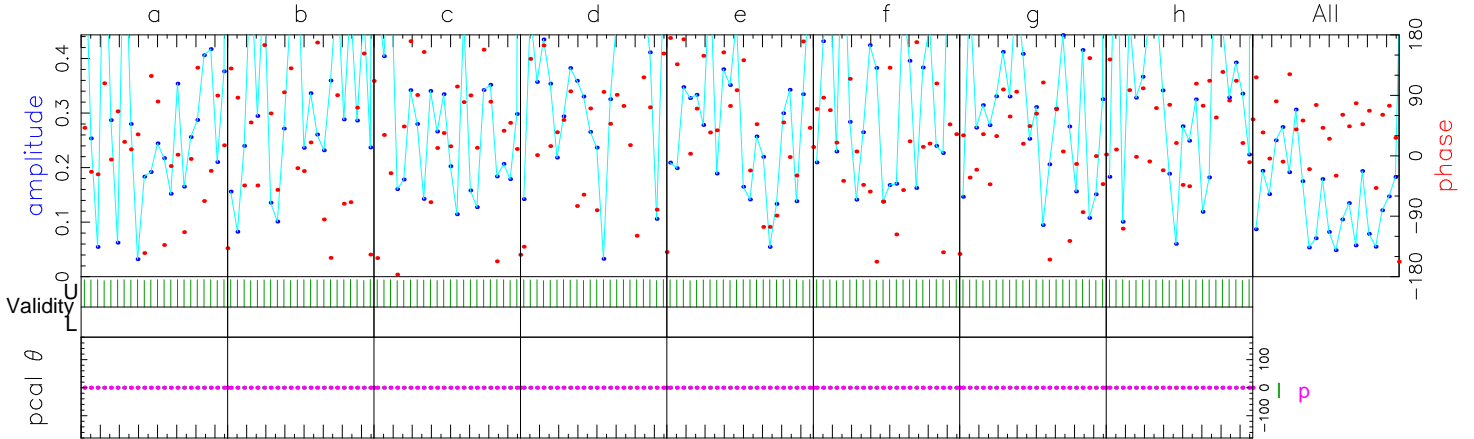
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		5.63195027399E+02			5.63207094127E+02				3.55827E-03	+/- 1.7E-04
Sband delay (usec)		5.63196294627E+02			-2.1002937E+01				-1.07995E-02	+/- 1.3E-03
Phase delay (usec)		5.63207098165E+02			-3.5499999E-07				4.03768E-06	+/- 5.7E-07
Delay rate (us/s)		-3.16383282330E-02			-3.16383551802E-02				2.69472E-08	+/- 2.2E-09
Total phase (deg)			156.9						125.2	+/- 17.6
pcal mode:					MANUAL				MANUAL	
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					
PC period (AP's)					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) 48.2 42.1 Search (2048X32) 0.105 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 60.8 73.6 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 27.9 24.9 Inc. seg. avg. 0.116 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 42.4 43.4 Inc. frq. avg. 0.116 Sample rate (MSamp/s): 128 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
l: az 82.1 el 24.3 pa -58.9 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 188.769 108.250 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/lp..190POF Output file: /Exps/c201c/v1/1234/No0032/lp.W.159.190POF



Fringe quality 0
SNR 6.6
Int time 433.033
Amp 0.148
Phase 45.6
PFD 1.4e-02
Delays (us)
SBD -0.482596
MBD -0.006859
Fringe rate (Hz)
-0.738082
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210559
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

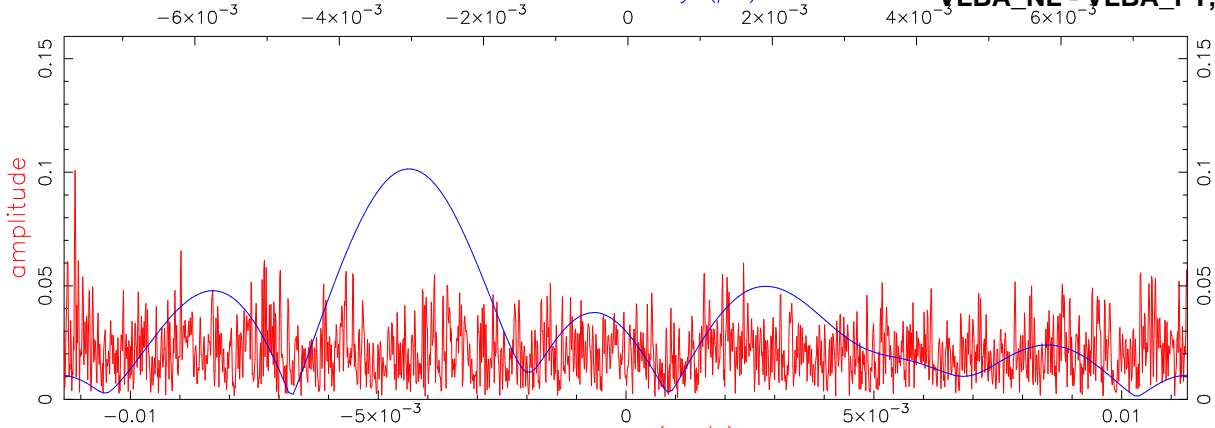


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		5.62731485552E+02			5.63207094127E+02				Resid mbdelay (usec)	-6.85857E-03 +/- 1.7E-04
Sband delay (usec)		5.62724498627E+02			-2.1002937E+01				Resid sbdelay (usec)	-4.82596E-01 +/- 1.3E-03
Phase delay (usec)		5.63207095597E+02			-3.5499999E-07				Resid phdelay (usec)	1.46988E-06 +/- 5.6E-07
Delay rate (us/s)		-3.16469235811E-02			-3.16383551802E-02				Resid rate (us/s)	-8.56840E-06 +/- 2.2E-09
Total phase (deg)			77.3		-2.29403744075E-06				Resid phase (deg)	45.6 +/- 17.4

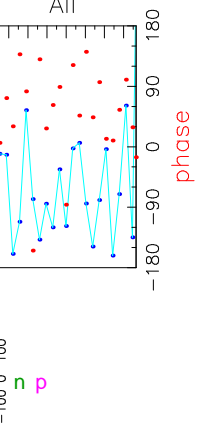
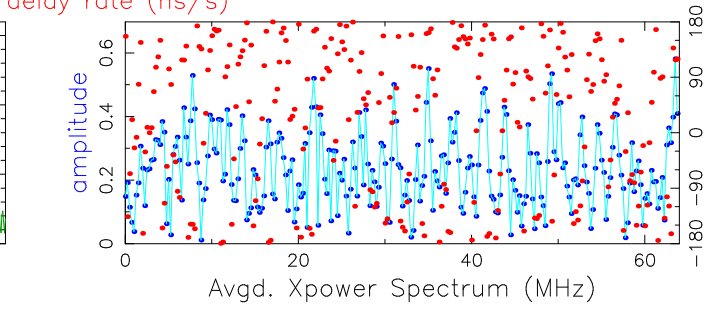
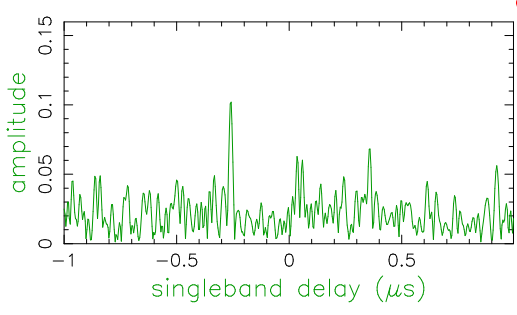
RMS Theor. Amplitude 0.148 +/- 0.022 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 43.4 41.8 Search (2048X32) 0.112 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 68.0 73.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 28.7 24.7 Inc. seg. avg. 0.144 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 39.9 43.1 Inc. frq. avg. 0.145 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 82.1 el 24.3 pa -58.9 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 188.769 108.250 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/lp..190POF Output file: /Exps/c201c/v1/1234/No0032/lp.W.174.190POF

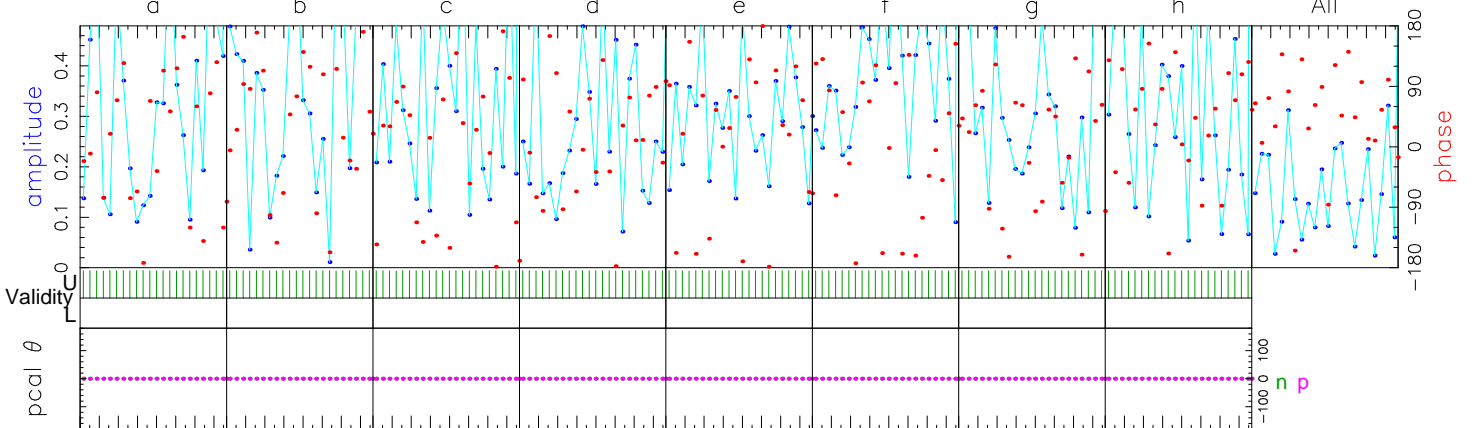
multiband delay (μs)



Fringe quality 0
SNR 5.9
Int time 437.181
Amp 0.160
Phase 72.5
PFD 5.5e-01
Delays (us)
SBD -0.259499
MBD -0.002915
Fringe rate (Hz)
-0.958782
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
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"

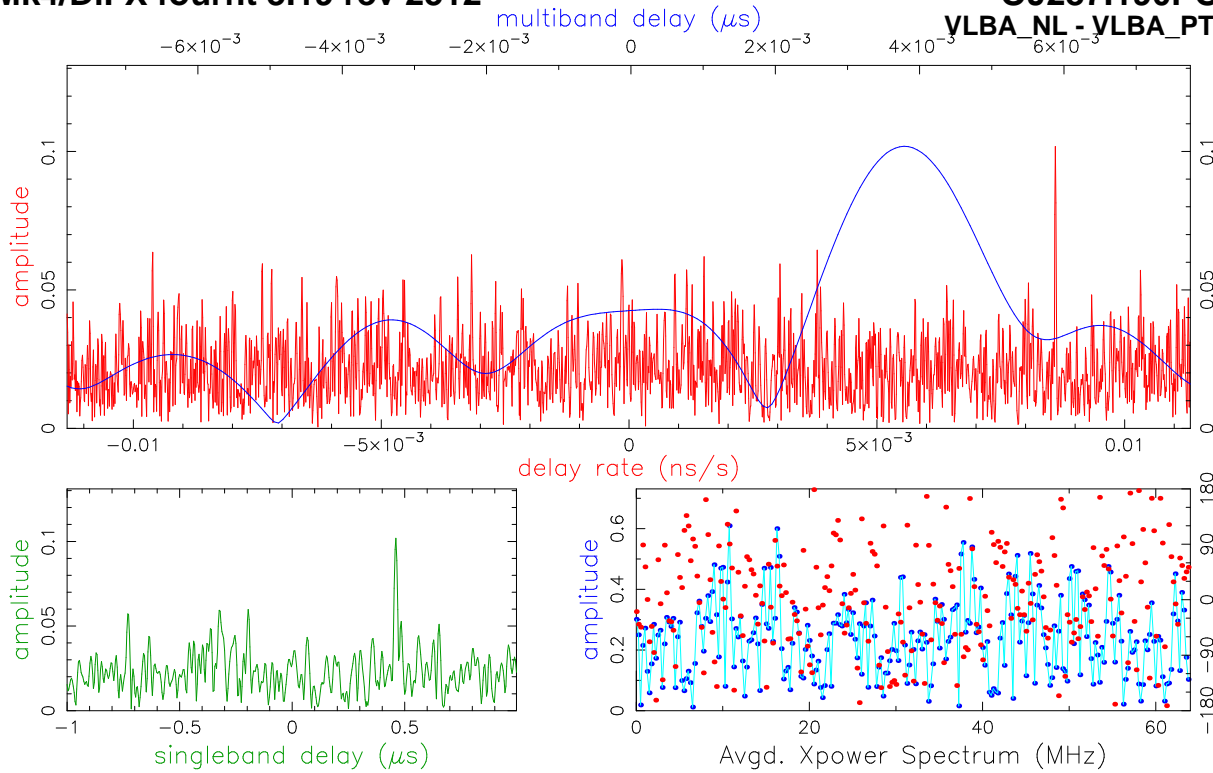


Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



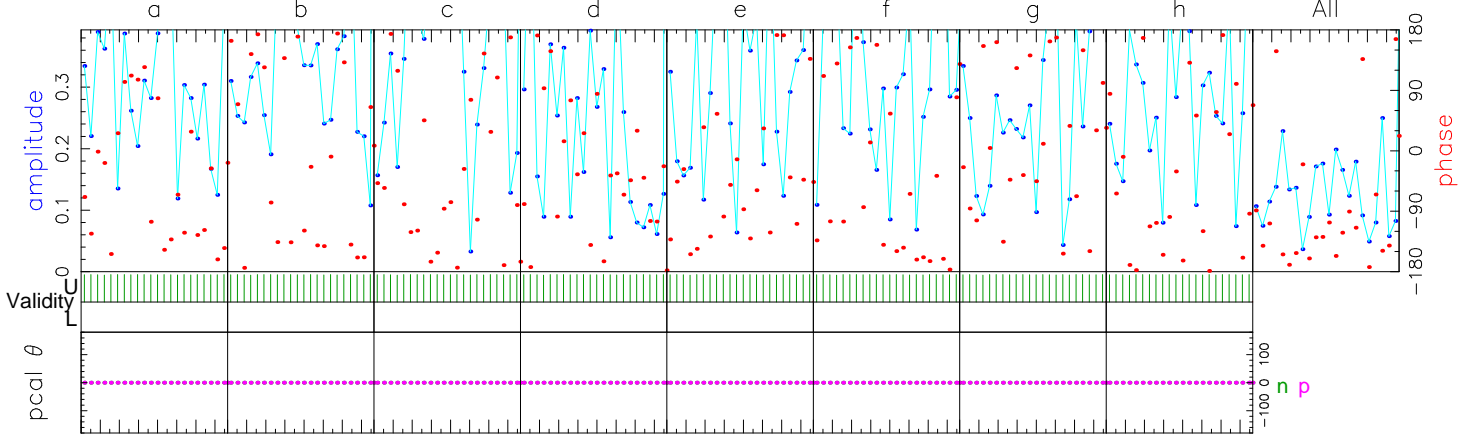
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	78.6	77.2	87.2	23.2	102.9	103.9	42.3	62.9	Phase	72.5
	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2	Ampl.	0.2
	129.1	339.9	267.9	140.8	306.3	479.5	417.9	348.4	Sbd box	190.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.26953291614E+03		Apriori delay (usec)		4.26978583083E+03		Resid mbdelay (usec)		-2.91468E-03	+/- 1.8E-04
Sband delay (usec)	4.26952633208E+03		Apriori clock (usec)		1.5012779E+01		Resid sbdelay (usec)		-2.59499E-01	+/- 1.5E-03
Phase delay (usec)	4.26978583316E+03		Apriori clockrate (us/s)		1.2999999E-07		Resid phdelay (usec)		2.33668E-06	+/- 6.2E-07
Delay rate (us/s)	-2.3852244698E-01		Apriori rate (us/s)		-2.38511114194E-01		Resid rate (us/s)		-1.11305E-05	+/- 2.5E-09
Total phase (deg)	240.7		Apriori accel (us/s/s)		-1.86663433981E-05		Resid phase (deg)		72.5	+/- 19.3

ph/seg (deg) 60.0 46.4 Search (2048X32) 0.098 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 96.0 81.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 30.6 27.4 Inc. seg. avg. 0.174 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 31.5 47.8 Inc. frq. avg. 0.152 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
n: az 94.6 el 35.9 pa -52.3 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 1421.502 310.068 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/np..190POF Output file: /Exps/c201c/v1/1234/No0032/np.W.163.190POF



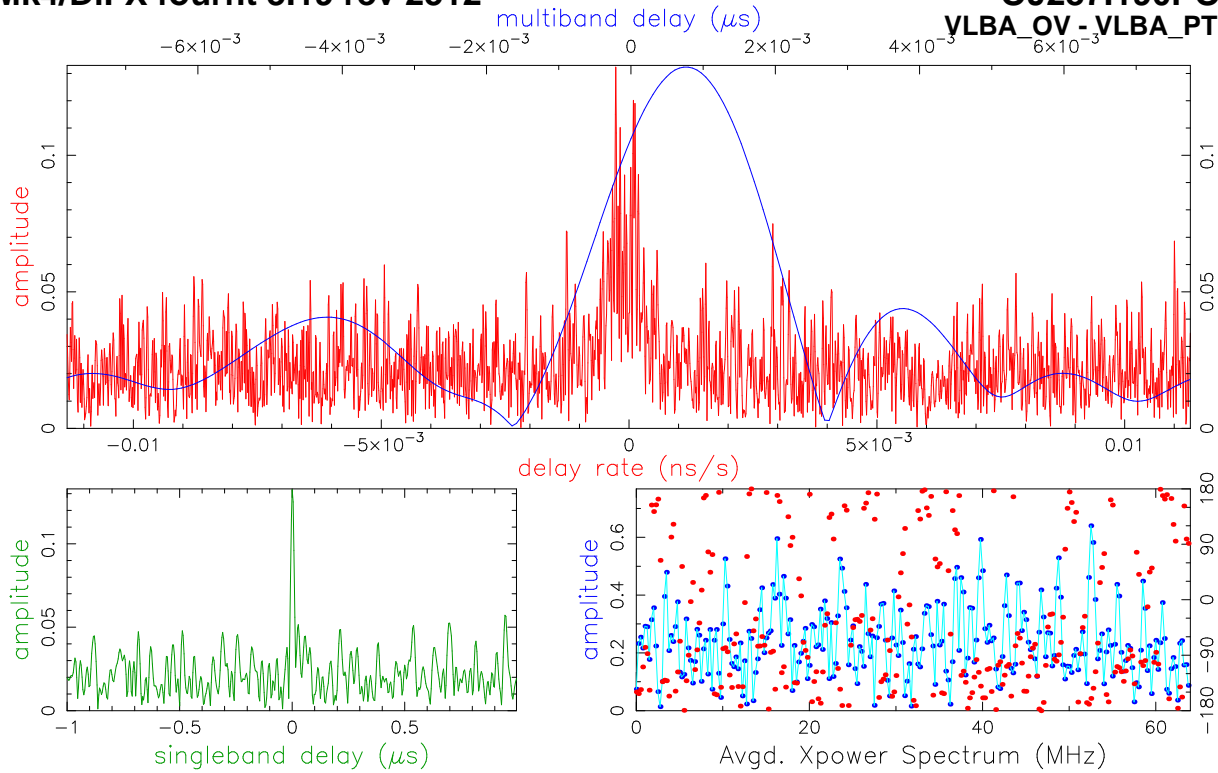
Fringe quality 0
SNR 5.8
Int time 437.181
Amp 0.131
Phase -139.9
PFD 7.4e-01
Delays (us)
SBD 0.460304
MBD 0.003766
Fringe rate (Hz) 0.742042
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210600
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



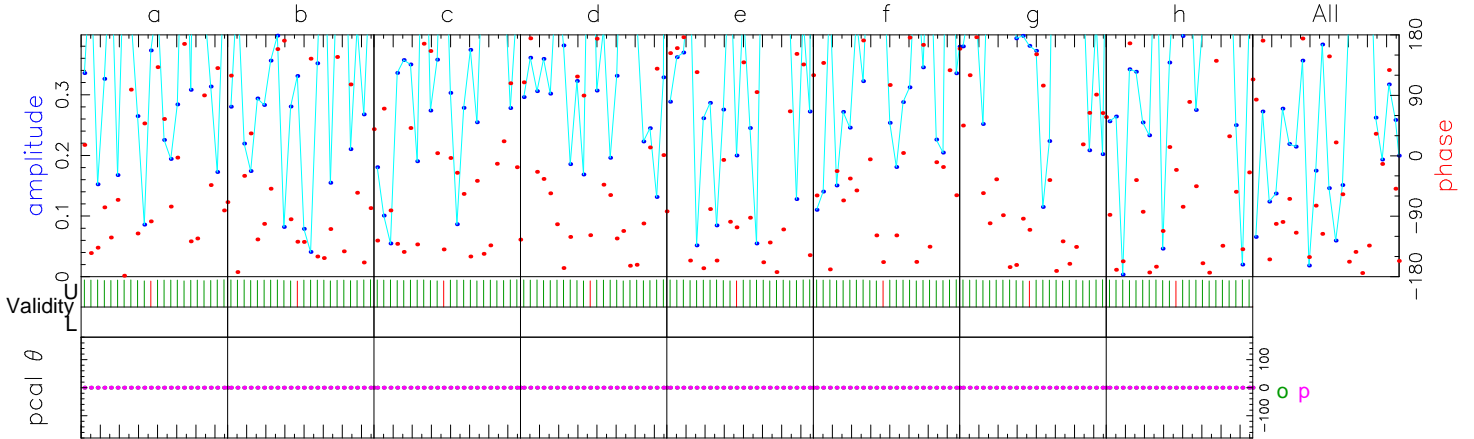
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-132.2	-168.1	-132.3	-96.2	-101.0	-151.5	174.2	-148.5		-139.9
	0.1	0.2	0.2	0.1	0.2	0.2	0.0	0.1		0.1
	29.7	374.9	197.5	222.7	138.8	456.4	388.0	161.3		374.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	4.27024272138E+03		Apriori delay (usec)		4.26978583083E+03		Resid mbdelay (usec)		3.76556E-03	+/- 1.9E-04
Sband delay (usec)	4.27024613508E+03		Apriori clock (usec)		1.5012779E+01		Resid sbdelay (usec)		4.60304E-01	+/- 1.5E-03
Phase delay (usec)	4.26978582632E+03		Apriori clockrate (us/s)		1.2999999E-07		Resid phdelay (usec)		-4.51058E-06	+/- 6.3E-07
Delay rate (us/s)	-2.38502499820E-01		Apriori rate (us/s)		-2.38511114194E-01		Resid rate (us/s)		8.61437E-06	+/- 2.5E-09
Total phase (deg)	28.4		Apriori accel (us/s/s)		-1.86663433981E-05		Resid phase (deg)		-139.9	+/- 19.6

ph/seg (deg) 46.2 47.1 Search (2048X32) 0.100 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 60.8 82.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 33.3 27.8 Inc. seg. avg. 0.121 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 52.5 48.5 Inc. frq. avg. 0.129 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 94.6 el 35.9 pa -52.3 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 1421.502 310.068 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/np..190POF Output file: /Exps/c201c/v1/1234/No0032/np.W.177.190POF



Fringe quality 9
 SNR 7.5
 Int time 427.203
 Amp 0.133
 Phase -136.5
 PFD 1.9e-05
 Delays (us)
 SBD 0.000832
 MBD 0.000799
 Fringe rate (Hz) -0.023010
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 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, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

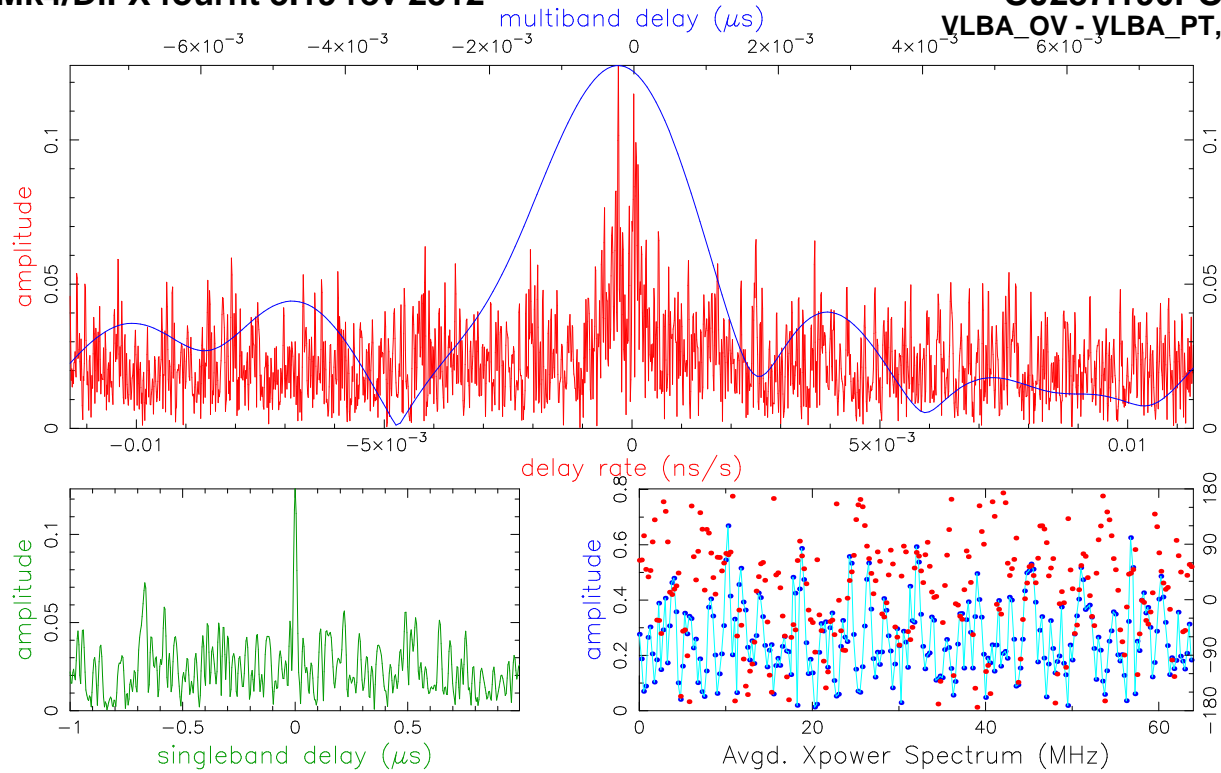


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-2.63148023613E+03	Apriori delay (usec)	-2.63148103518E+03	Resid mbdelay (usec)	7.99050E-04	+/-	1.4E-04
Sband delay (usec)	-2.63148020343E+03	Apriori clock (usec)	2.8084507E+00	Resid sbdelay (usec)	8.31750E-04	+/-	1.1E-03
Phase delay (usec)	-2.63148103958E+03	Apriori clockrate (us/s)	-2.9999874E-09	Resid phdelay (usec)	-4.40276E-06	+/-	4.9E-07
Delay rate (us/s)	-5.35416787731E-03	Apriori rate (us/s)	-5.35390075108E-03	Resid rate (us/s)	-2.67126E-07	+/-	1.9E-09
Total phase (deg)	-269.8	Apriori accel (us/s/s)	1.56056247457E-05	Resid phase (deg)	-136.5	+/-	15.3

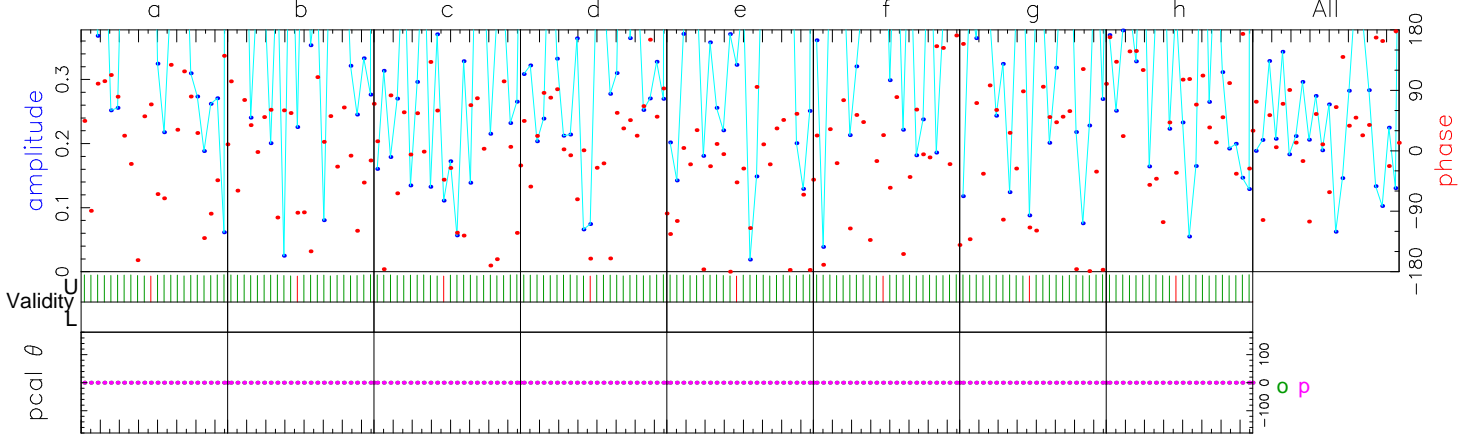
ph/seg (deg)	RMS 79.0	Theor. 36.6	Amplitude Search (2048X32)	0.130	0.133 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	139.3	63.8	Interp.	0.000	0.130	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
ph/frq (deg)	18.4	21.6	Inc. seg. avg.	0.208	0.208	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
amp/frq (%)	31.7	37.7	Inc. frq. avg.	0.128	0.128	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

o: az 76.1 el 15.1 pa -55.4 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 58.039 791.258 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/op..190POF Output file: /Exps/c201c/v1/1234/No0032/op.W.170.190POF



Fringe quality 0
 SNR 7.1
 Int time 427.203
 Amp 0.126
 Phase 33.3
 PFD 3.5e-04
 Delays (us)
 SBD -0.000203
 MBD -0.000219
 Fringe rate (Hz)
 -0.023635
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 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, 39 APs / seg (19.97 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	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:p	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		
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

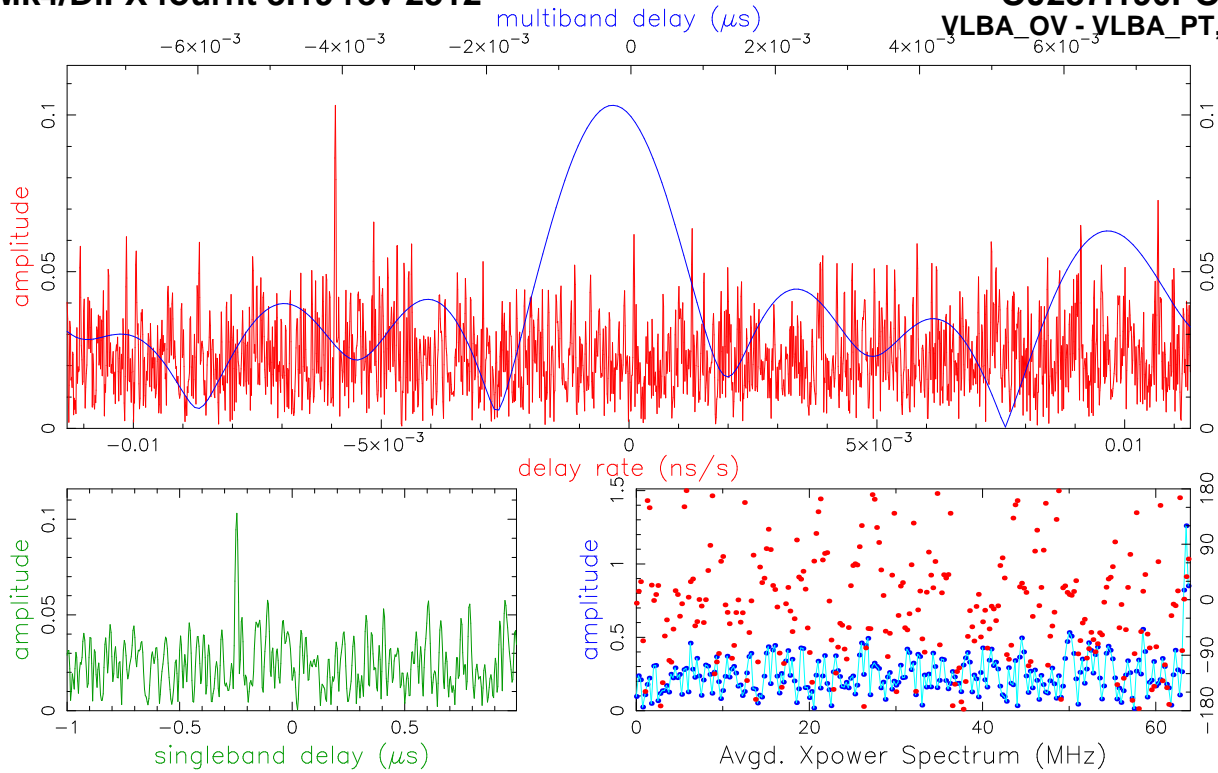
Group delay (usec)(sbd)	-2.63148125412E+03	Apriori delay (usec)	-2.63148103518E+03	Resid mbdelay (usec)	-2.18946E-04	+/-	1.5E-04
Sband delay (usec)	-2.63148123818E+03	Apriori clock (usec)	2.8084507E+00	Resid sbdelay (usec)	-2.03000E-04	+/-	1.2E-03
Phase delay (usec)	-2.63148103410E+03	Apriori clockrate (us/s)	-2.9999874E-09	Resid phdelay (usec)	1.07430E-06	+/-	5.2E-07
Delay rate (us/s)	-5.35417512727E-03	Apriori rate (us/s)	-5.35390075108E-03	Resid rate (us/s)	-2.74376E-07	+/-	2.0E-09
Total phase (deg)	-100.0	Apriori accel (us/s/s)	1.56056247457E-05	Resid phase (deg)	33.3	+/-	16.1

	RMS	Theor.	Amplitude	0.126 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	76.9	38.6	Search (2048X32)	0.123	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	112.4	67.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	28.1	22.8	Inc. seg. avg.	0.189	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	33.2	39.8	Inc. frq. avg.	0.126	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

o: az 76.1 el 15.1 pa -55.4 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 58.039 791.258 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/op..190POF Output file: /Exps/c201c/v1/1234/No0032/op.W.190.190POF

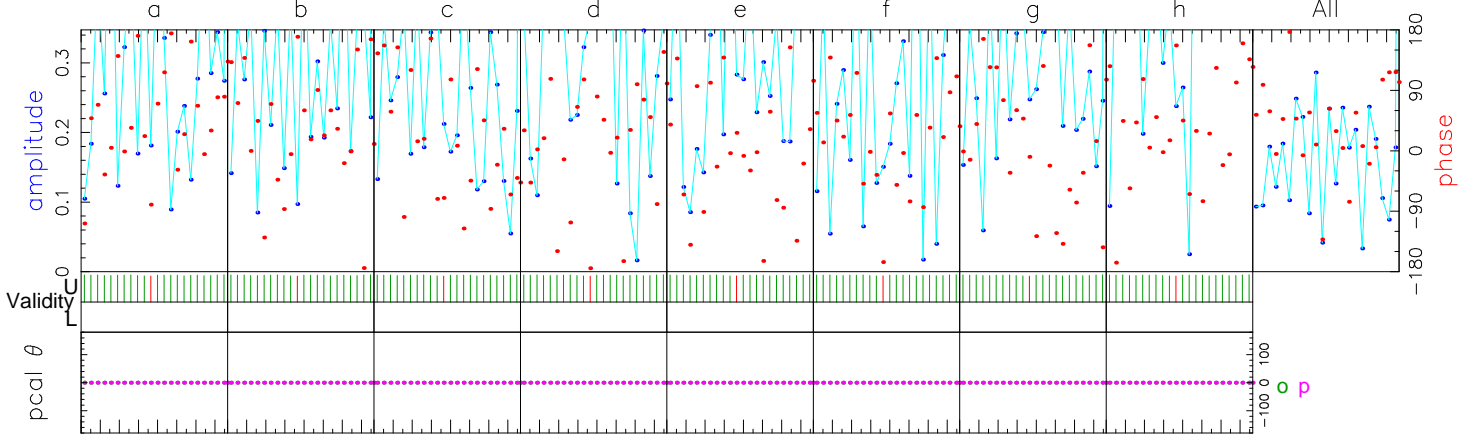
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, op VLBA_OV - VLBA_PT, fgroup W, pol LR



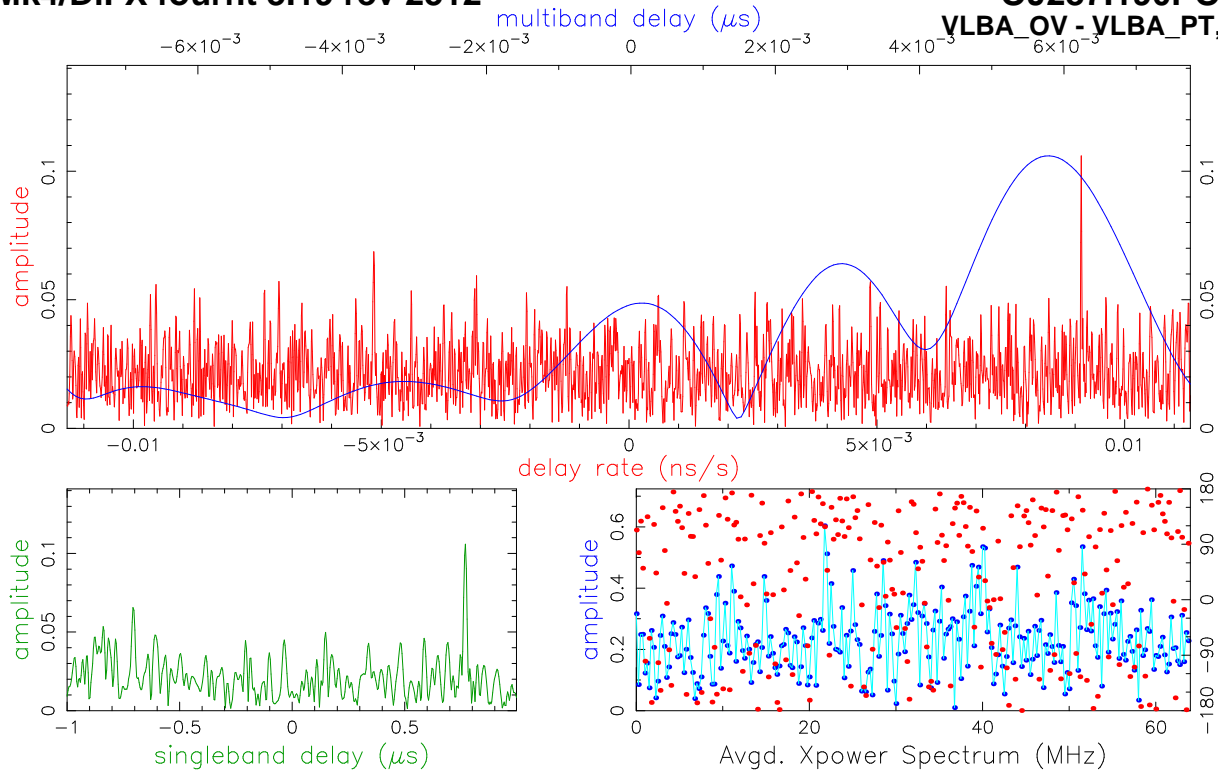
Fringe quality 0
 SNR 5.8
 Int time 427.203
 Amp 0.116
 Phase 34.8
 PFD 7.4e-01
 Delays (us)
 SBD -0.246524
 MBD -0.000248
 Fringe rate (Hz)
 -0.510974
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210608
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



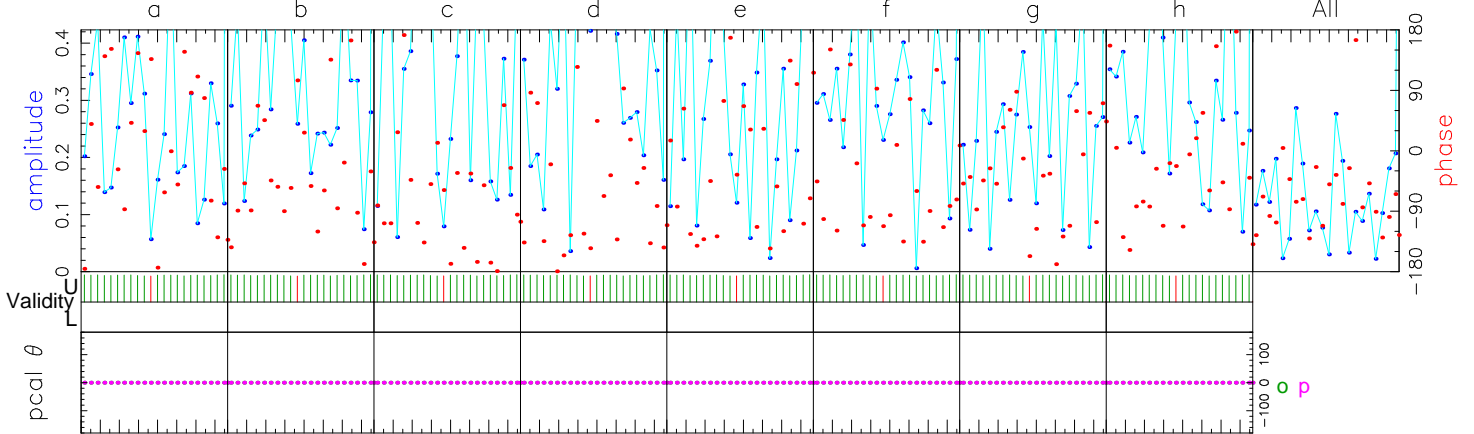
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	38.7	45.5	-58.1	60.4	-2.7	45.3	15.1	40.0	Phase	34.8
	0.2	0.1	0.0	0.1	0.1	0.2	0.1	0.2	Ampl.	0.1
	193.8	392.5	154.4	160.3	20.6	298.9	460.1	457.6	Sbd box	193.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.63173128293E+03		Apriori delay (usec)		-2.63148103518E+03		Resid mbdelay (usec)		-2.47748E-04	+/- 1.9E-04
Sband delay (usec)	-2.63172755943E+03		Apriori clock (usec)		2.8084507E+00		Resid sbdelay (usec)		-2.46524E-01	+/- 1.5E-03
Phase delay (usec)	-2.63148103406E+03		Apriori clockrate (us/s)		-2.9999874E-09		Resid phdelay (usec)		1.12233E-06	+/- 6.3E-07
Delay rate (us/s)	-5.35983265164E-03		Apriori rate (us/s)		-5.35390075108E-03		Resid rate (us/s)		-5.93190E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		1.56056247457E-05		Resid phase (deg)		34.8	+/- 19.6

ph/seg (deg) 65.7 47.1 Search (2048X32) 0.101 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 99.6 82.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.5 27.8 Inc. seg. avg. 0.133 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 54.6 48.5 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
 o: az 76.1 el 15.1 pa -55.4 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 58.039 791.258 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/op..190POF Output file: /Exps/c201c/v1/1234/No0032/op.W.212.190POF



Fringe quality 0
SNR 6.0
Int time 427.203
Amp 0.141
Phase -79.2
PFD 3.8e-01
Delays (us)
SBD 0.768768
MBD 0.005747
Fringe rate (Hz) 0.786638
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
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"

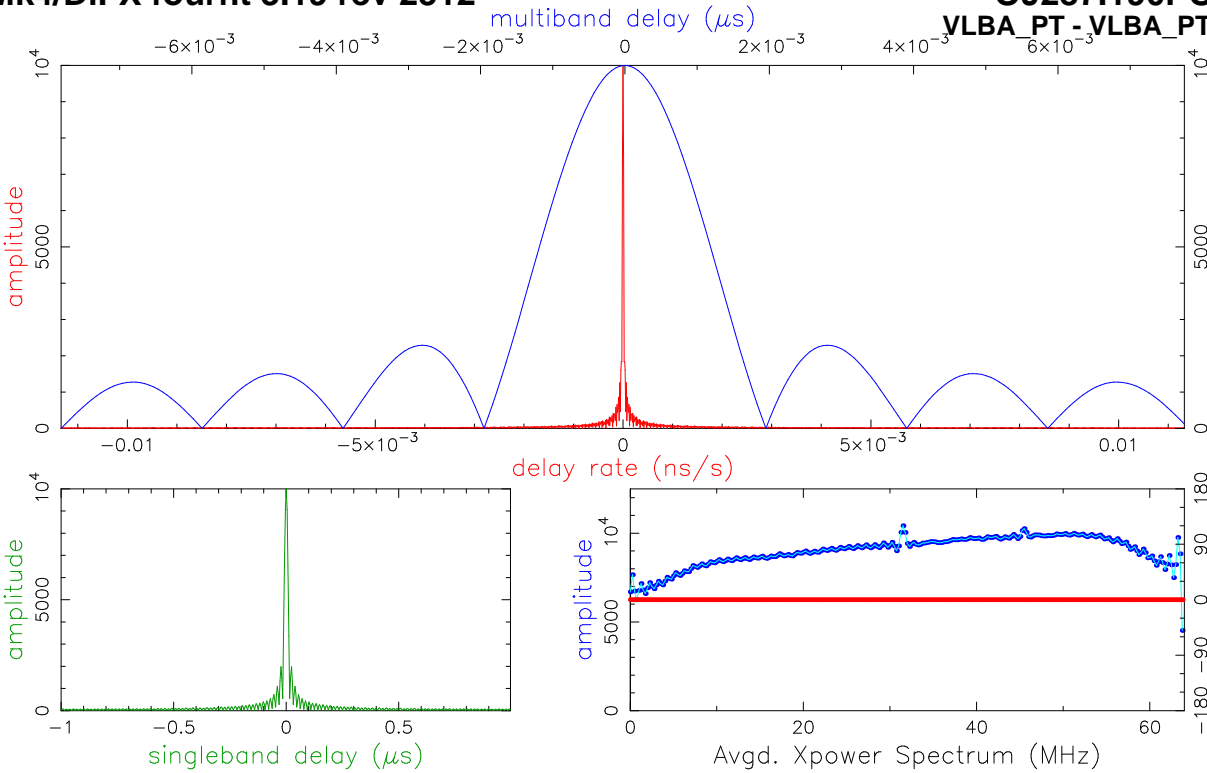
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-17.9	-57.5	-101.8	-109.0	-95.2	-99.0	-33.5	-72.6	Phase	-79.2
	0.1	0.2	0.3	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
	41.0	142.3	453.7	395.7	43.0	165.3	102.6	450.8	Sbd box	453.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.63070966340E+03		Apriori delay (usec)		-2.63148103518E+03		Resid mbdelay (usec)		5.74677E-03	+/- 1.8E-04
Sband delay (usec)	-2.63071226718E+03		Apriori clock (usec)		2.8084507E+00		Resid sbdelay (usec)		7.68768E-01	+/- 1.4E-03
Phase delay (usec)	-2.63148103773E+03		Apriori clockrate (us/s)		-2.9999874E-09		Resid phdelay (usec)		-2.55421E-06	+/- 6.1E-07
Delay rate (us/s)	-5.34476866917E-03		Apriori rate (us/s)		-5.35390075108E-03		Resid rate (us/s)		9.13208E-06	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		1.56056247457E-05		Resid phase (deg)		-79.2	+/- 19.1

	RMS	Theor.	Amplitude	0.141 +/- 0.023	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	43.3	45.7	Search (2048X32)	0.104	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	80.9	79.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	37.4	27.0	Inc. seg. avg.	0.130	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	44.8	47.0	Inc. frq. avg.	0.142	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

o: az 76.1 el 15.1 pa -55.4 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 58.039 791.258 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/op..190POF Output file: /Exps/c201c/v1/1234/No0032/op.W.228.190POF

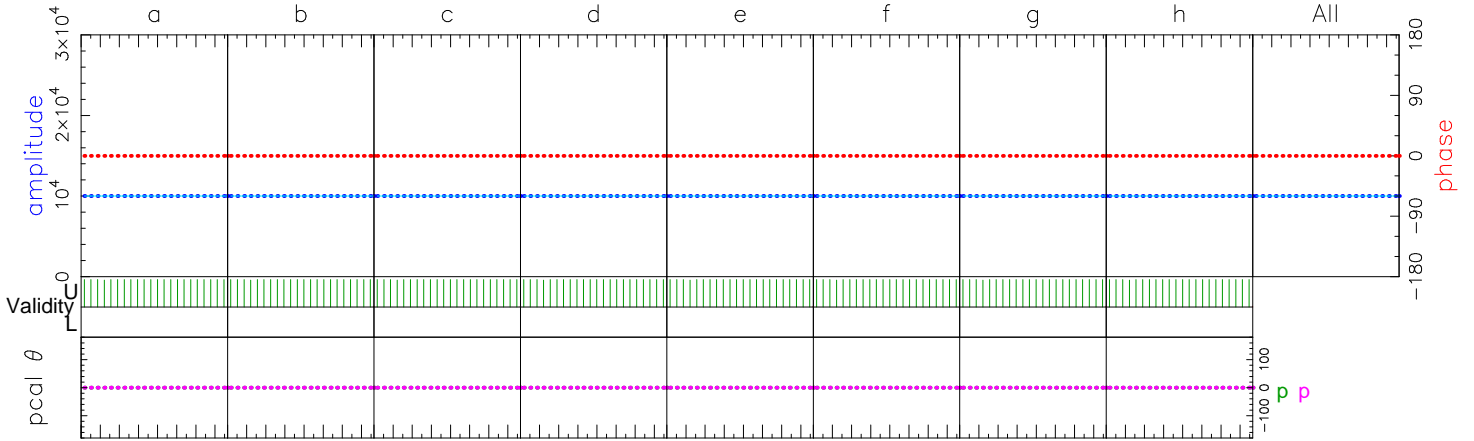


Fringe quality 9

SNR 572968.5
 Int time 439.002
 Amp 10000.002
 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 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210557
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

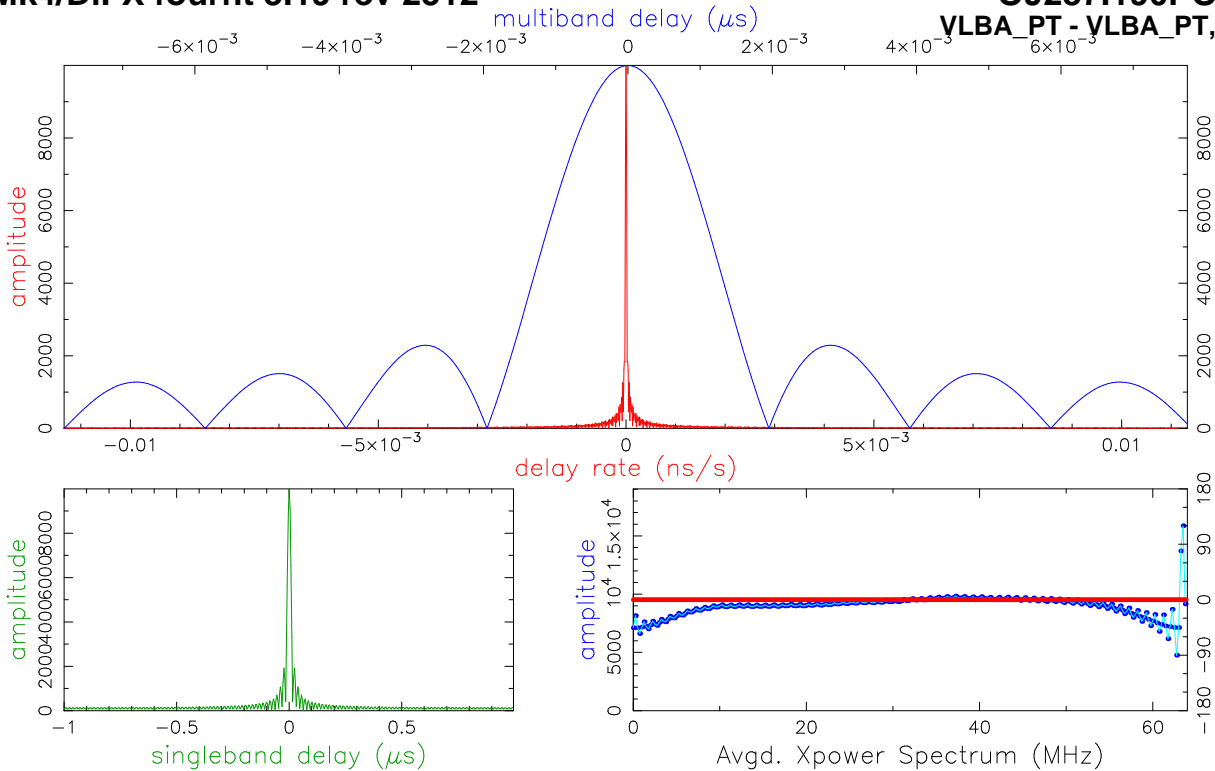
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	-0.0	Phase	-0.0
	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Sbd box	257.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	

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)	-5.49700093794E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.49700E-20	+/-	6.4E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.5E-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 0.0 RMS Theor. Amplitude 10000.002 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 10000.002 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 p: az 80.5 el 22.5 pa -60.3 p: az 80.5 el 22.5 pa -60.3 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

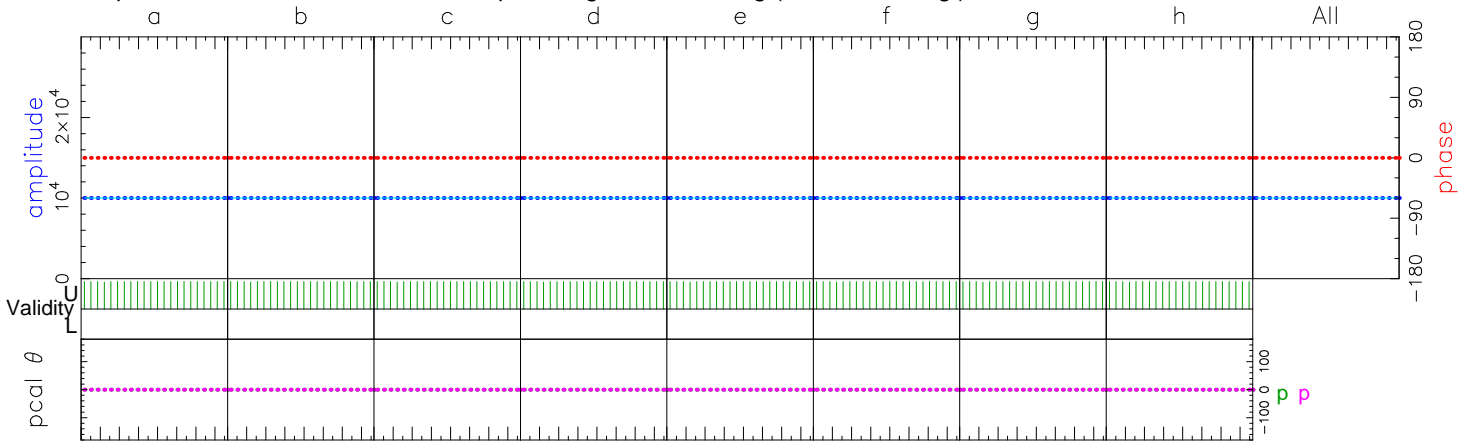


Fringe quality 9

SNR 572968.3
 Int time 439.002
 Amp 9999.999
 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 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210600
 2020:014:135814
 RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

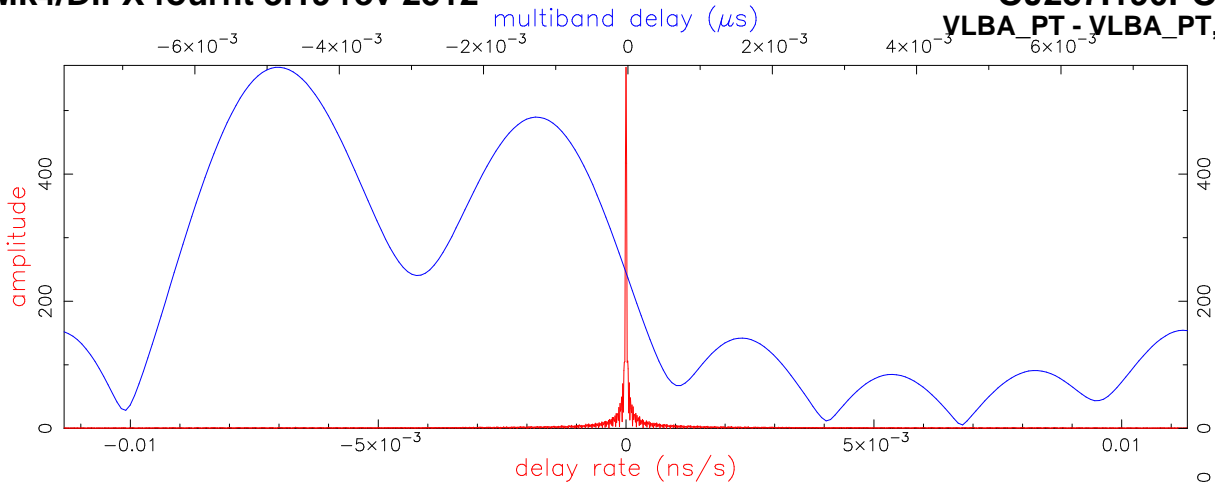
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	Ampl.	10000.0
p	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00 +/- 1.9E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid sbdelay (usec)	0.00000E+00 +/- 1.5E-08
Phase delay (usec)	-2.86016582807E-20	-2.86016582807E-20	-2.86016582807E-20	-2.86016582807E-20	-2.86016582807E-20	-2.86016582807E-20	-2.86016582807E-20	-2.86016582807E-20	Resid phdelay (usec)	-2.86017E-20 +/- 6.4E-12
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid rate (us/s)	0.00000E+00 +/- 2.5E-14
Total phase (deg)			-0.0						Resid phase (deg)	-0.0 +/- 0.0

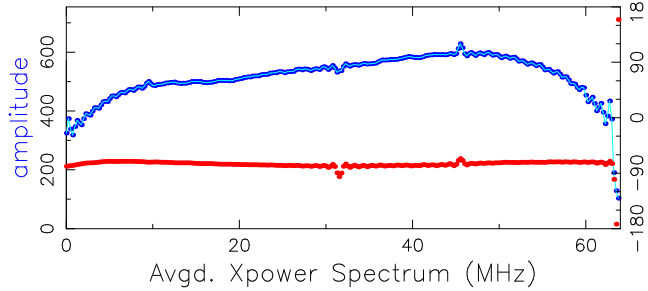
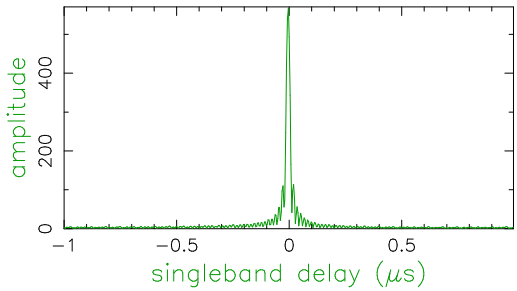
p: az 80.5 el 22.5 pa -60.3 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/pp..190POF Output file: /Exps/c201c/v1/1234/No0032/pp.W.179.190POF



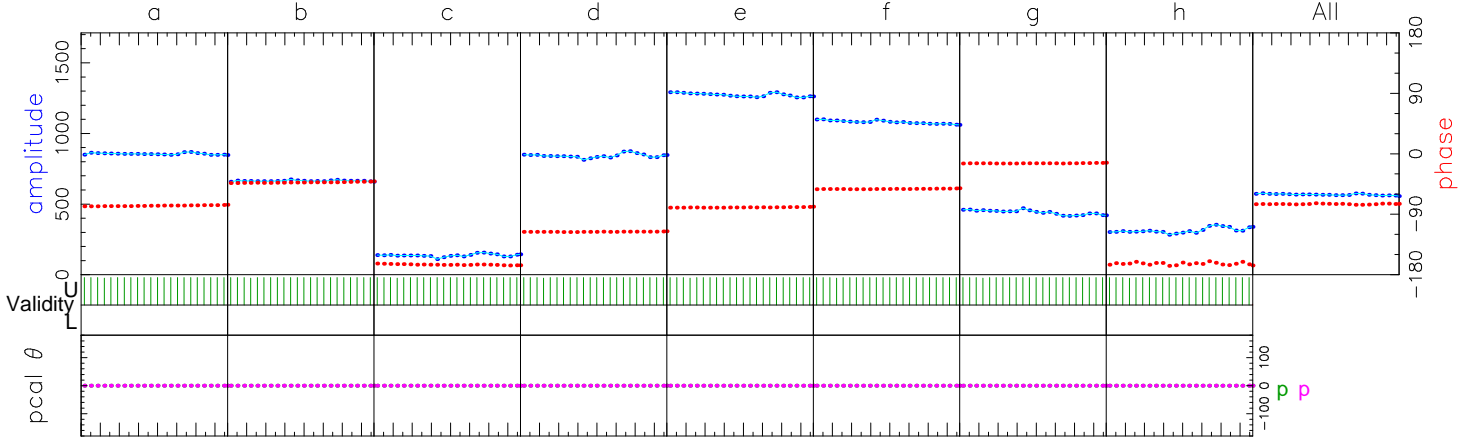
Fringe quality 5

SNR 32708.4
 Int time 439.002
 Amp 570.858
 Phase -74.8
 PFD 0.0e+00
 Delays (us)
 SBD -0.004829
 MBD -0.004869
 Fringe rate (Hz)
 -0.000012
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210604
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

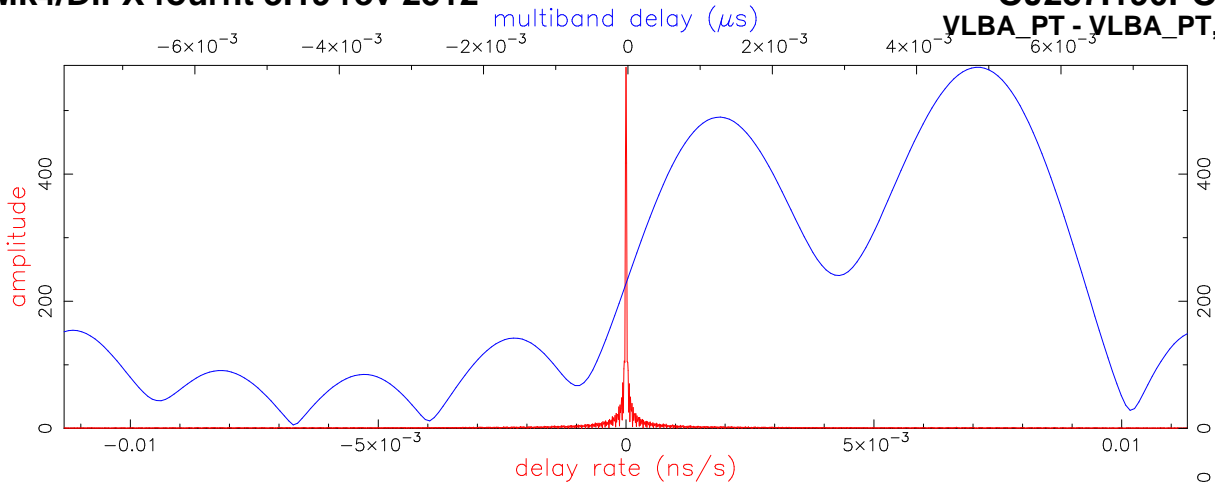


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-77.3	-42.7	-164.9	-116.1	-79.8	-52.3	-14.1	-163.4	Phase	-74.8
	856.1	665.0	137.0	842.4	1273.7	1081.1	442.3	313.4	Ampl.	701.4
	256.4	256.3	258.8	256.3	256.0	256.1	256.4	256.4	Sbd box	255.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.86928125000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-4.86928E-03	+/- 3.3E-08
Sband delay (usec)	-4.82925000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-4.82925E-03	+/- 2.6E-07
Phase delay (usec)	-2.41255915748E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-2.41256E-06	+/- 1.1E-10
Delay rate (us/s)	-1.38168735819E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-1.38169E-10	+/- 4.4E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-74.8	+/- 0.0

RMS Theor. Amplitude 570.858 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.5 0.0 Search (2048X32) 567.762 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 1.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 61.8 0.0 Inc. seg. avg. 567.954 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 67.5 0.0 Inc. frq. avg. 701.378 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 p: az 80.5 el 22.5 pa -60.3 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/pp..190POF Output file: /Exps/c201c/v1/1234/No0032/pp.W.195.190POF

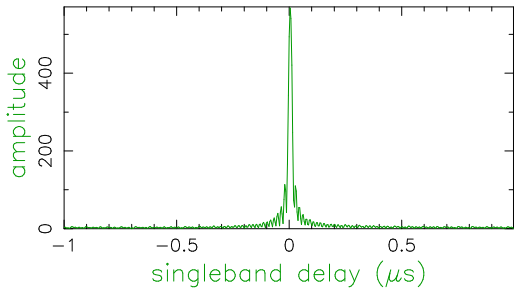
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, pp VLBA_PT - VLBA_PT, fgroup W, pol RL

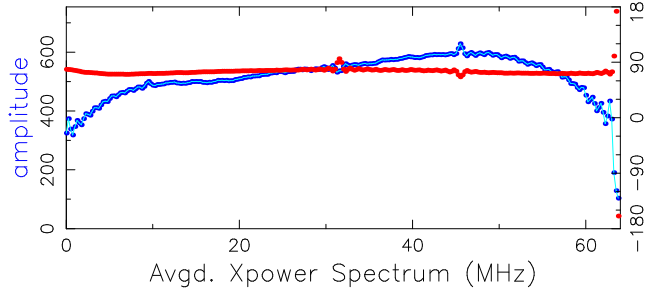


Fringe quality 5

SNR 32708.4
 Int time 439.002
 Amp 570.858
 Phase 74.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.004829
 MBD 0.004869
 Fringe rate (Hz)
 0.000012
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

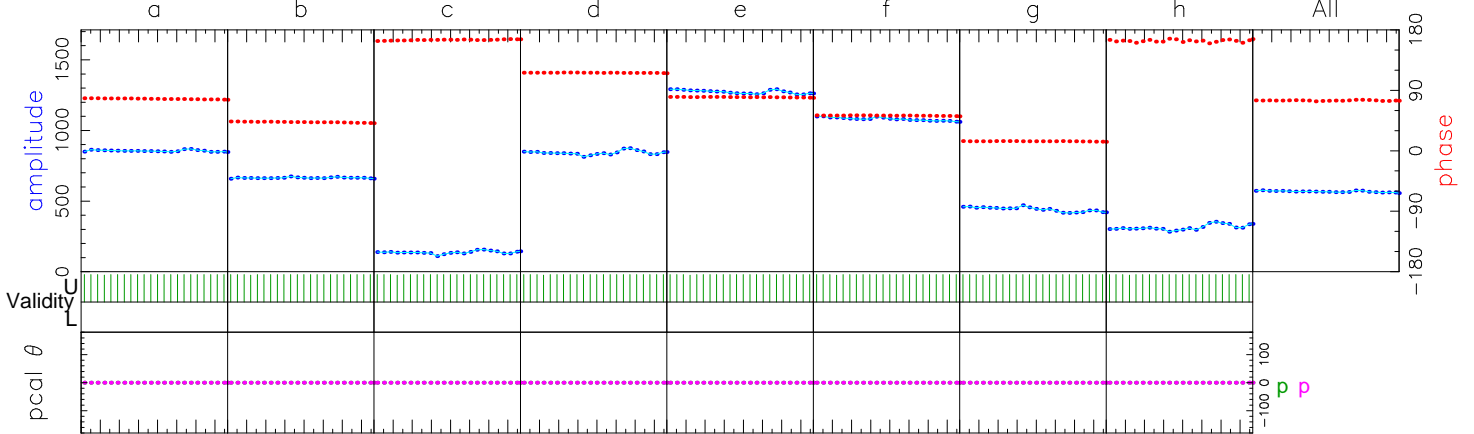


delay rate (ns/s)



Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210608
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

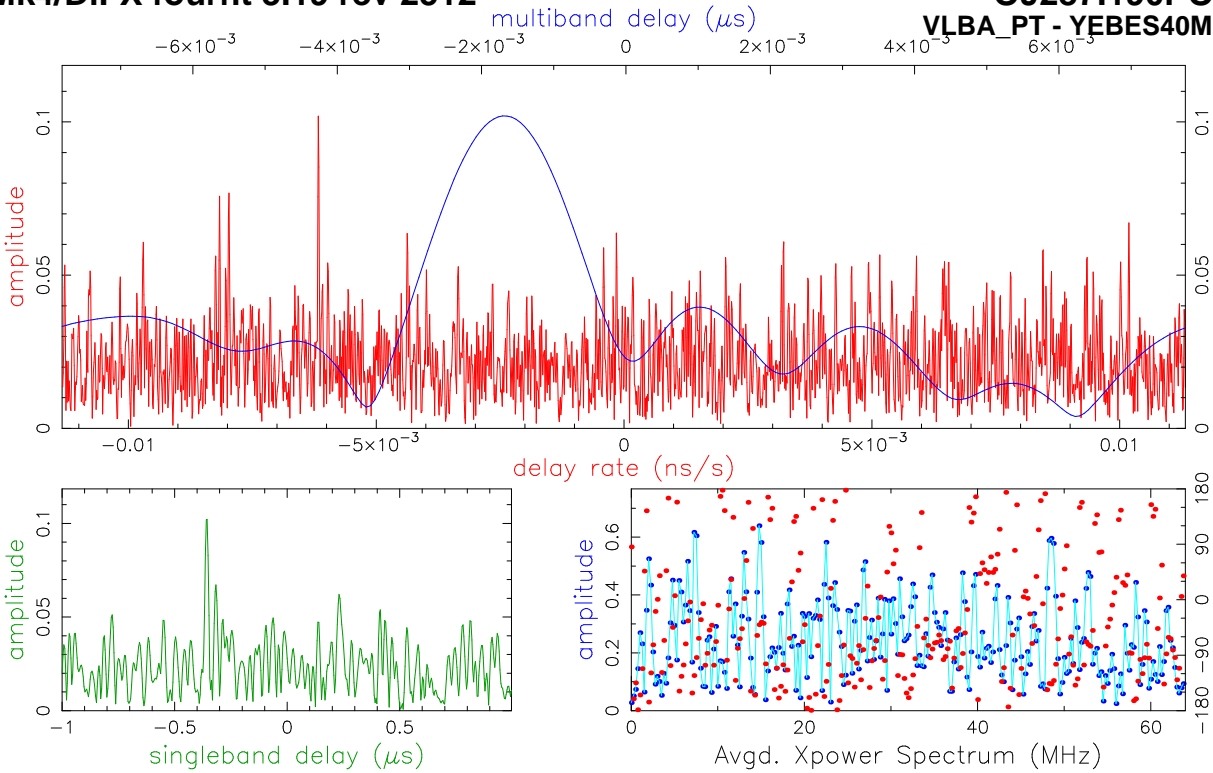
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	77.3	42.7	164.9	116.1	79.8	52.3	14.1	163.4	Phase	74.8
	856.1	665.0	137.0	842.4	1273.7	1081.1	442.3	313.4	Ampl.	701.4
	257.6	257.7	255.2	257.7	258.0	257.9	257.6	257.6	Sbd box	258.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.86928125000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		4.86928E-03	+/- 3.3E-08
Sband delay (usec)	4.82925000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		4.82925E-03	+/- 2.6E-07
Phase delay (usec)	2.41255915757E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		2.41256E-06	+/- 1.1E-10
Delay rate (us/s)	1.38168735819E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		1.38169E-10	+/- 4.4E-13
Total phase (deg)	74.8		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		74.8	+/- 0.0

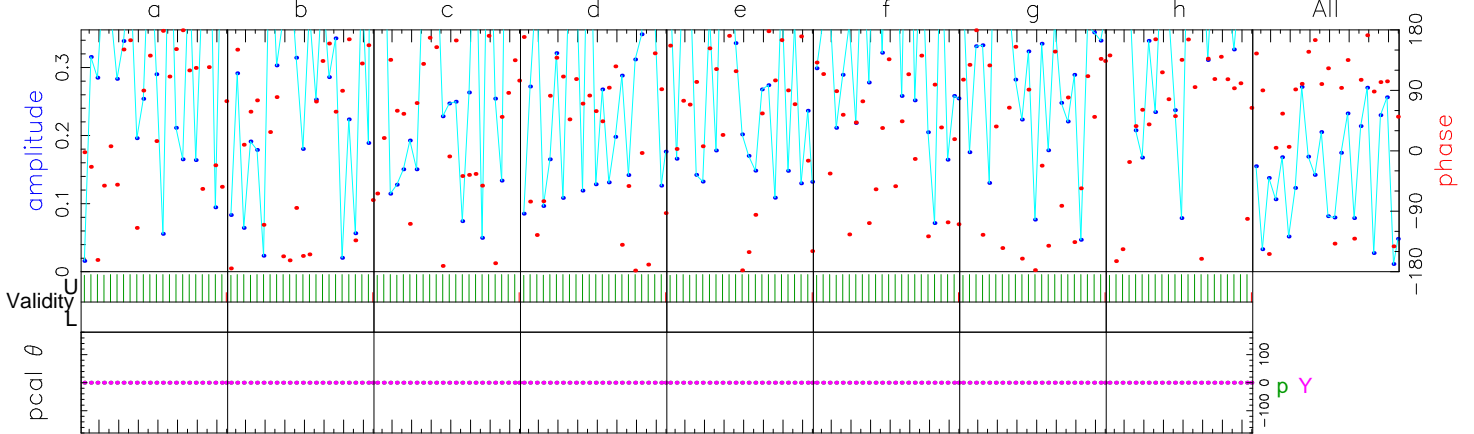
ph/seg (deg) 0.5 0.0 Theor. Amplitude 570.858 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.0 0.0 Search (2048X32) 567.762 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 61.8 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 67.5 0.0 Inc. seg. avg. 567.954 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 p: az 80.5 el 22.5 pa -60.3 p: az 80.5 el 22.5 pa -60.3 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

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/pp..190POF Output file: /Exps/c201c/v1/1234/No0032/pp.W.213.190POF



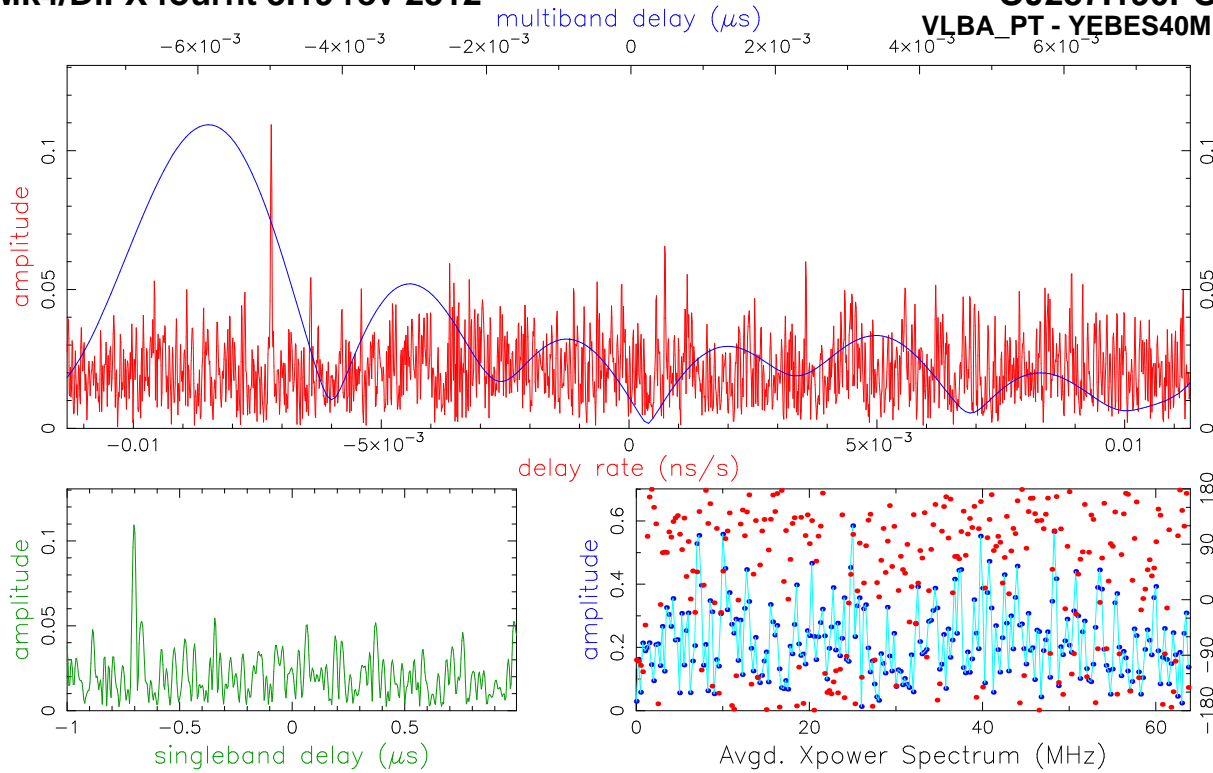
Fringe quality 0
SNR 5.9
Int time 433.400
Amp 0.118
Phase 119.4
PFD 5.0e-01
Delays (us)
SBD -0.357373
MBD -0.001640
Fringe rate (Hz)
-0.532089
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
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	
									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)			Apriori accel (us/s/s)		4.64982039436E-05		Resid phase (deg)		119.4	+/- 19.3

p/seg (deg) 60.9 46.2 Search (2048X32) 0.100 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 85.1 80.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 26.7 27.2 Inc. seg. avg. 0.124 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 40.5 47.5 Inc. frq. avg. 0.111 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.172.190POF simultaneous interpolator

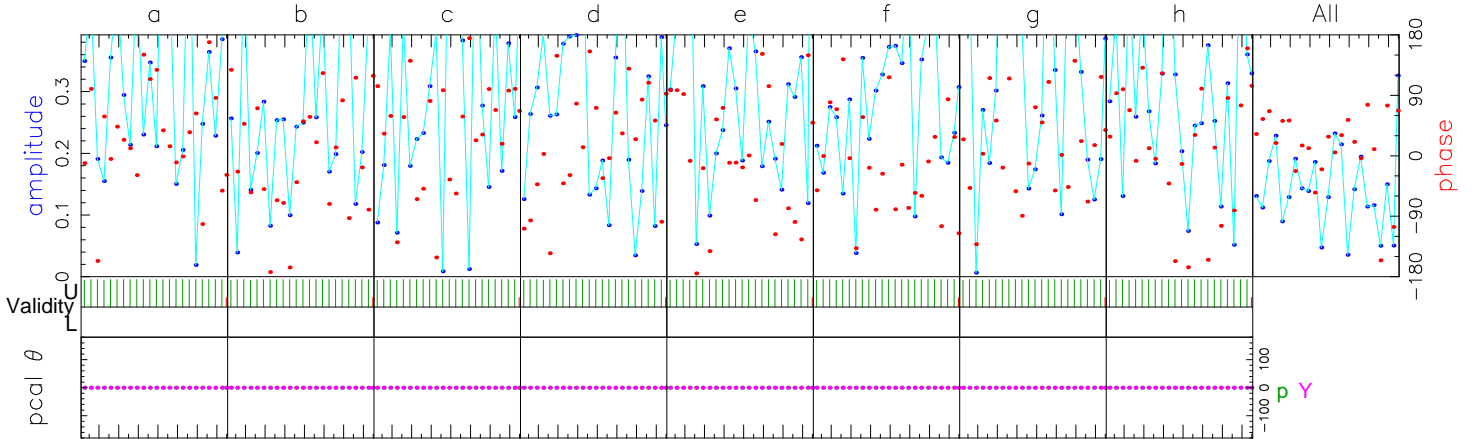


Fringe quality 0

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

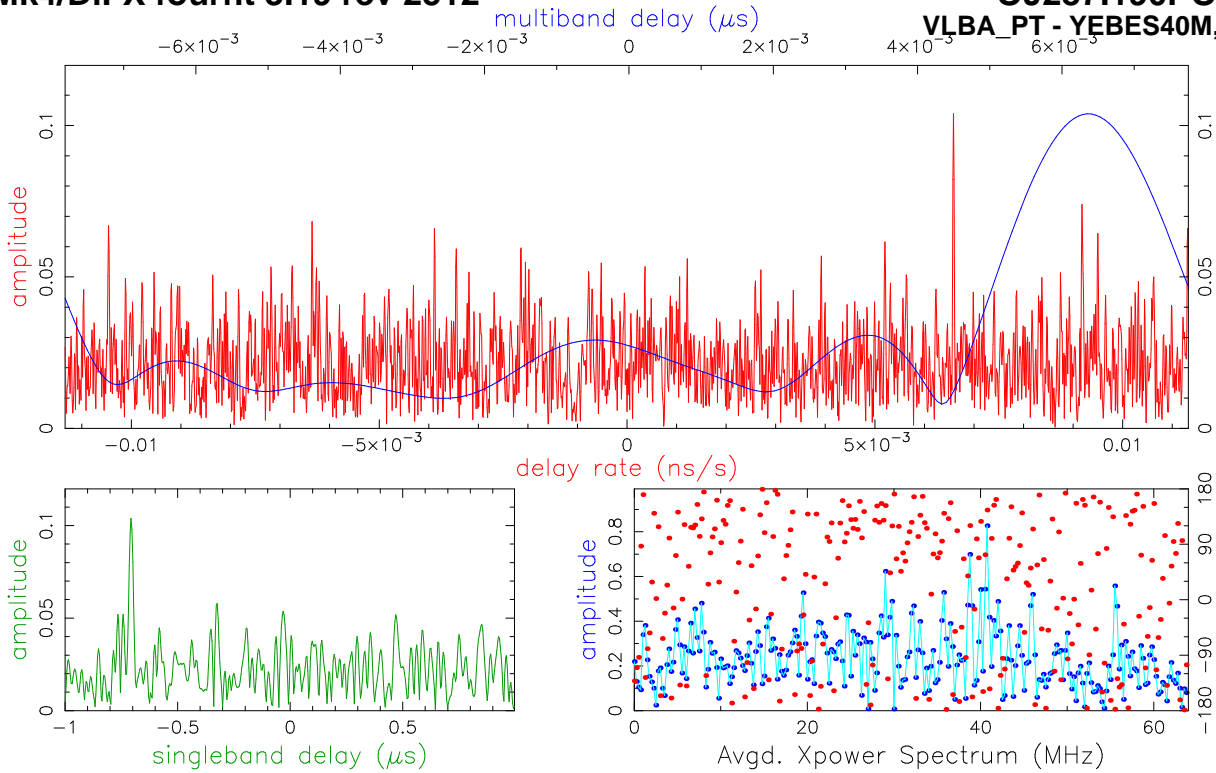
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210602
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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)					-9.36489489710E+03					
Apriori clock (usec)					5.3110733E+00					
Apriori clockrate (us/s)					-1.6000005E-08					
Apriori rate (us/s)					1.72417637447E+00					
Apriori accel (us/s/s)					4.64982039436E-05					
Resid mbdelay (usec)									-5.83703E-03	+/- 1.7E-04
Resid sbdelay (usec)									-7.02156E-01	+/- 1.4E-03
Resid phdelay (usec)									7.53835E-07	+/- 5.9E-07
Resid rate (us/s)									-7.22963E-06	+/- 2.4E-09
Resid phase (deg)									23.4	+/- 18.3

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 simultaneous interpolator

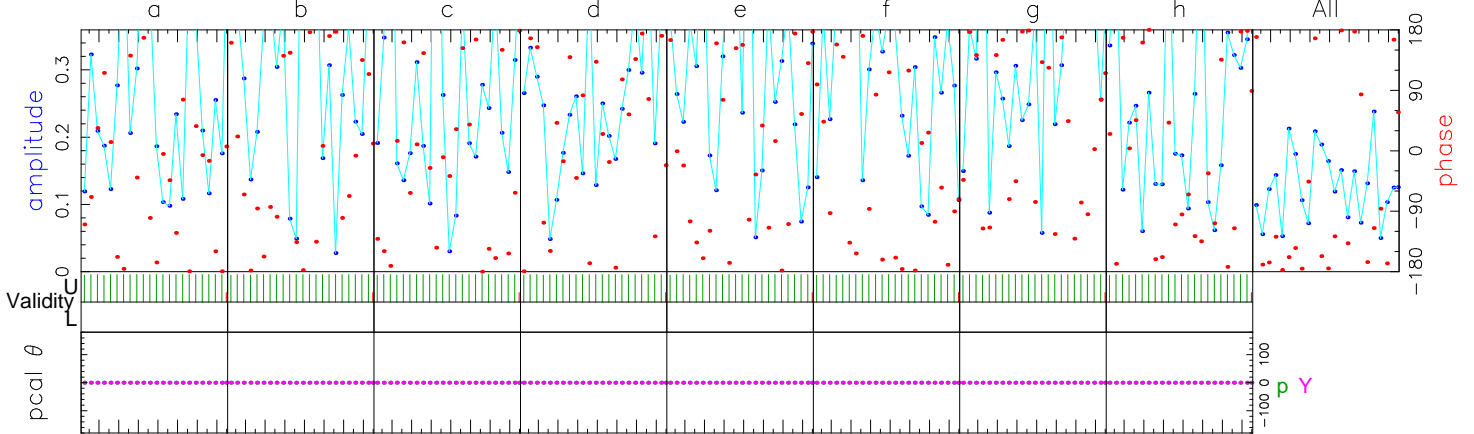


Fringe quality 0

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

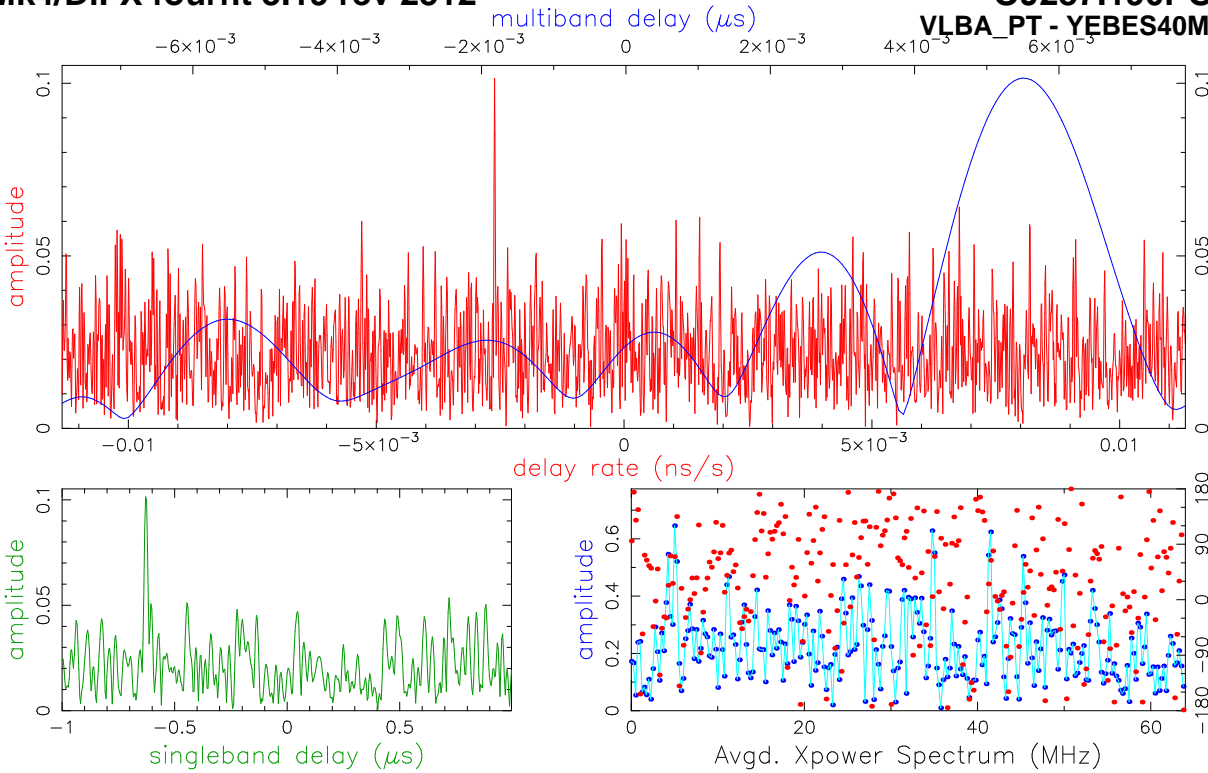
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210607
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

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	0.1	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

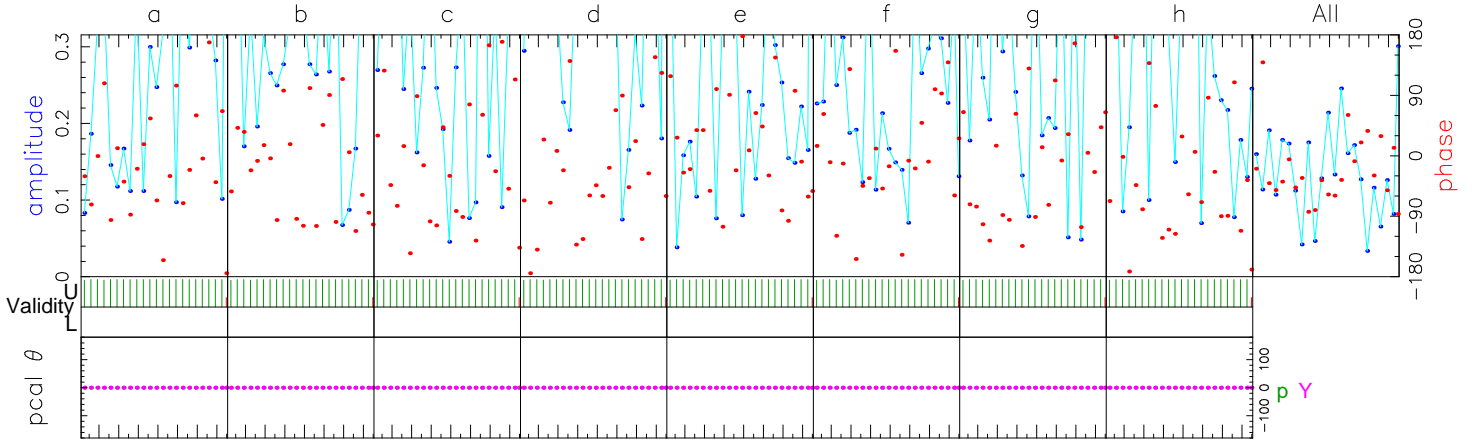


Fringe quality 0

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



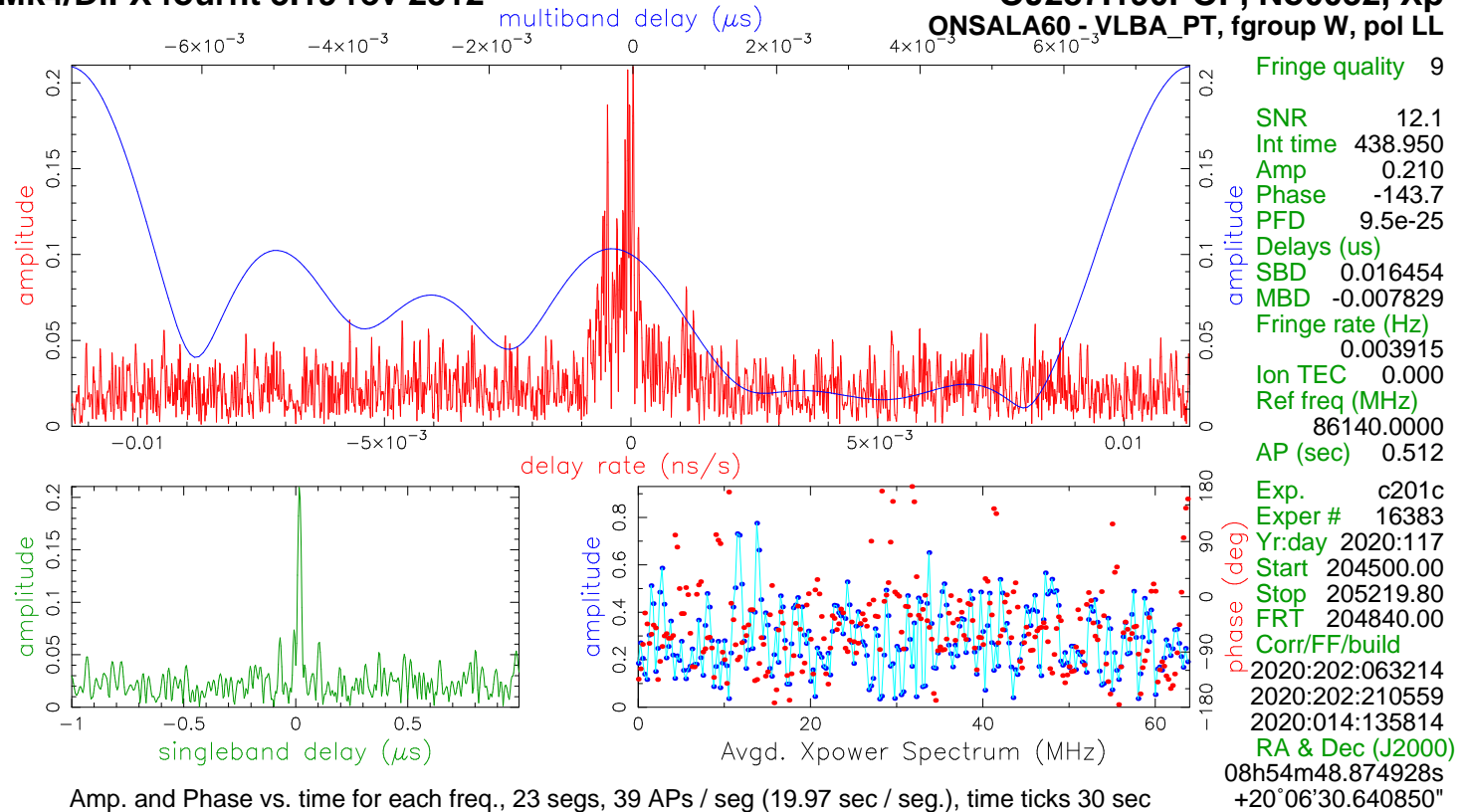
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-19.3	-36.7	-36.2	-55.5	-2.9	-2.0	-22.9	-59.9	Phase	-31.4
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	283.4	232.3	414.3	341.9	29.2	439.1	479.8	203.2	Sbd box	96.4
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	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

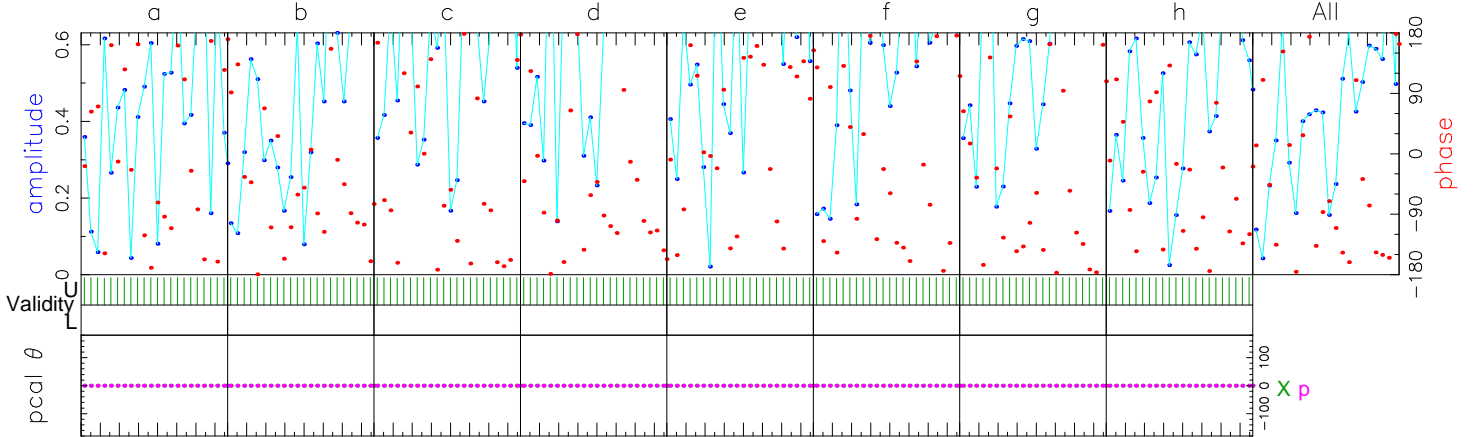
ph/seg (deg)	52.1	Theor.	46.9	Amplitude	0.105 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	64.3	Search (2048X32)	0.097	Search	0.097	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	23.6	Inc. seg. avg.	0.103	Inc. seg. avg.	0.103	Bits/sample:	2x2	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	

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



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

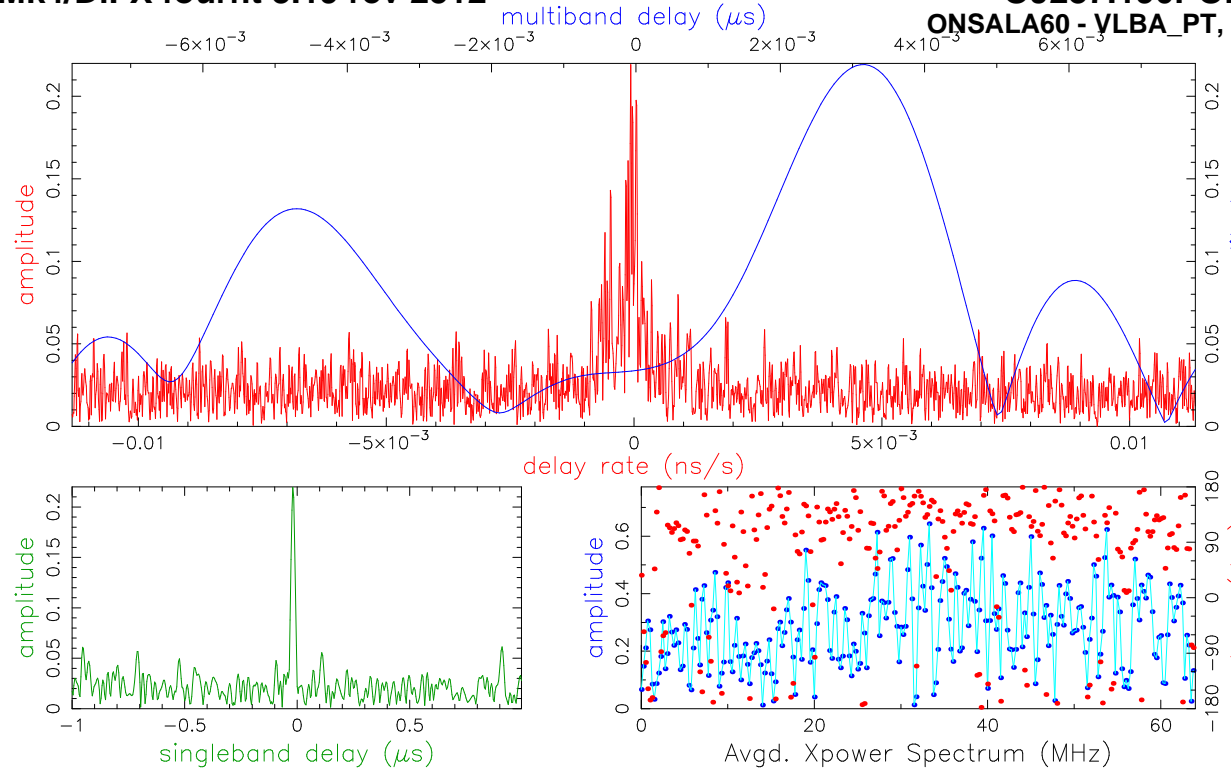


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-153.7	-96.1	-164.3	-114.3	157.3	-153.2	-160.2	-96.2	Phase	-143.7
	0.2	0.2	0.3	0.3	0.2	0.3	0.2	0.2	Ampl.	0.2
	261.1	261.5	261.7	262.1	261.8	261.7	261.4	263.4	Sbd box	261.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		5.24887287971E+03		Apriori delay (usec)	5.24884945839E+03		Resid mbdelay (usec)	-7.82868E-03	+/-	9.0E-05
Sband delay (usec)		5.24886591214E+03		Apriori clock (usec)	2.3500267E+01		Resid sbdelay (usec)	1.64538E-02	+/-	7.1E-04
Phase delay (usec)		5.24884945375E+03		Apriori clockrate (us/s)	3.2400002E-07		Resid phdelay (usec)	-4.63400E-06	+/-	3.1E-07
Delay rate (us/s)		-1.72334753614E+00		Apriori rate (us/s)	-1.72334758158E+00		Resid rate (us/s)	4.54441E-08	+/-	1.2E-09
Total phase (deg)		-19.4		Apriori accel (us/s/s)	-1.70046306097E-05		Resid phase (deg)	-143.7	+/-	9.5

	RMS	Theor.	Amplitude	0.210 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	81.2	22.8	Search (2048X32)	0.208	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
amp/seg (%)	133.8	39.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
ph/frq (deg)	40.3	13.4	Inc. seg. avg.	0.383	Sample rate(MISamp/s): 128	nlags: 256	t_cohere infinite	dr window (ns/s) -0.011 0.011
amp/frq (%)	31.9	23.5	Inc. frq. avg.	0.240	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00		

X: az 239.7 el 40.6 pa 29.7 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 10472.362 1777.650 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Xp..190POF Output file: /Exps/c201c/v1/1234/No0032/Xp.W.173.190POF

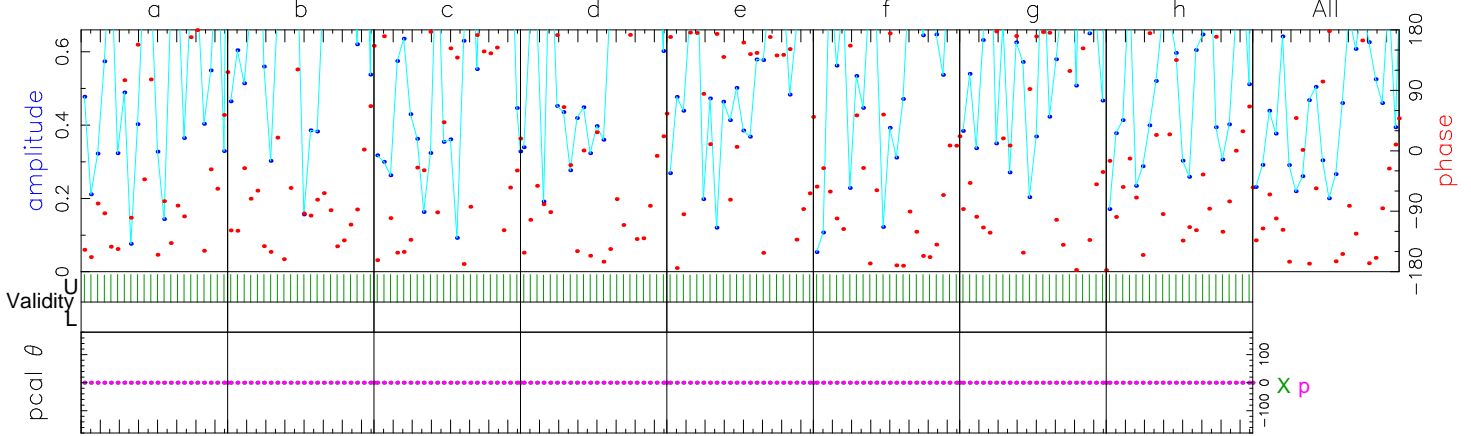


Fringe quality 9

SNR 12.6
 Int time 438.950
 Amp 0.220
 Phase -119.5
 PFD 1.1e-27
 Delays (us)
 SBD -0.018773
 MBD 0.003158
 Fringe rate (Hz)
 -0.005838
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210603
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

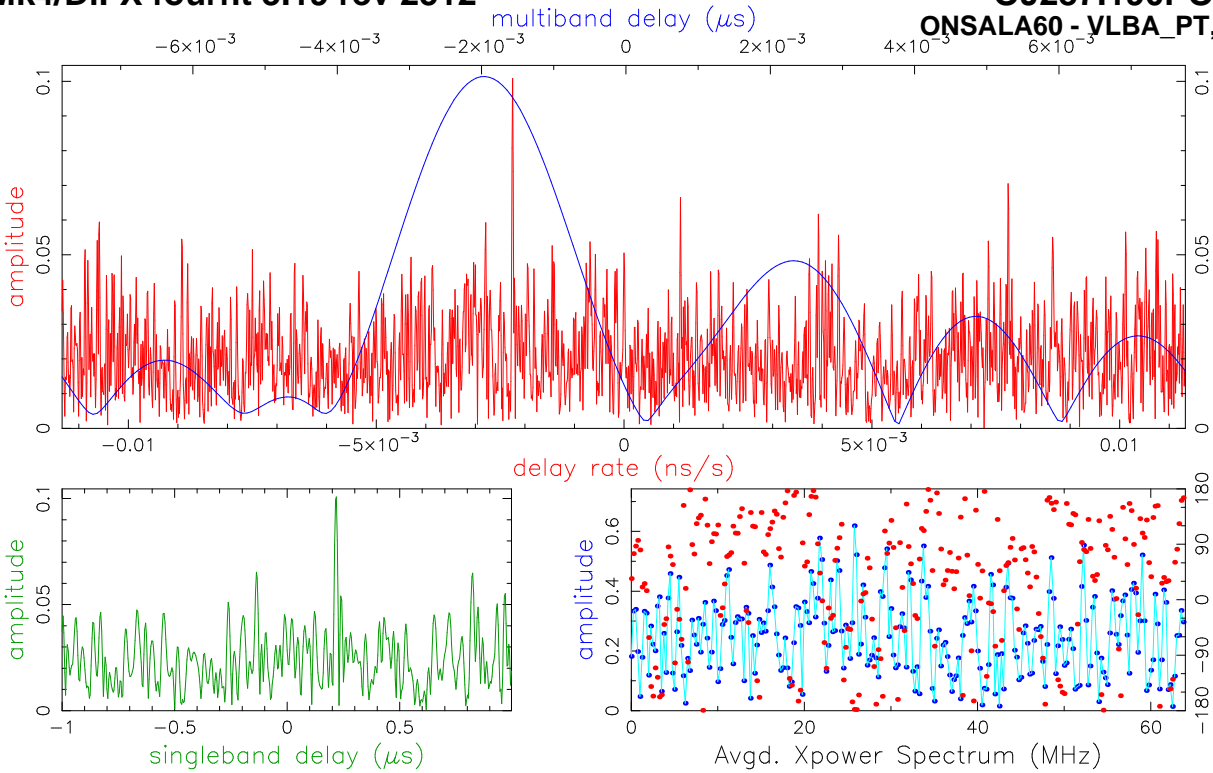


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-127.7	-89.0	-147.3	-100.4	-176.3	-103.5	-152.0	-52.2	Phase	-119.5
	0.2	0.4	0.3	0.3	0.3	0.2	0.3	0.2	Ampl.	0.3
	252.7	251.7	252.3	253.0	252.9	253.3	253.4	284.4	Sbd box	252.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.24883699176E+03		Apriori delay (usec)		5.24884945839E+03		Resid mbdelay (usec)		3.15837E-03	+/- 8.6E-05
Sband delay (usec)	5.24883068514E+03		Apriori clock (usec)		2.3500267E+01		Resid sbdelay (usec)		-1.87733E-02	+/- 6.8E-04
Phase delay (usec)	5.24884945453E+03		Apriori clockrate (us/s)		3.2400002E-07		Resid phdelay (usec)		-3.85294E-06	+/- 2.9E-07
Delay rate (us/s)	-1.72334764935E+00		Apriori rate (us/s)		-1.72334758158E+00		Resid rate (us/s)		-6.77686E-08	+/- 1.2E-09
Total phase (deg)	4.8		Apriori accel (us/s/s)		-1.70046306097E-05		Resid phase (deg)		-119.5	+/- 9.1

ph/seg (deg) 73.5 21.8 Amplitude 0.220 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 128.5 38.1 Search (2048X32) 0.214 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.2 12.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 33.2 22.4 Inc. seg. avg. 0.414 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 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 10472.362 1777.650 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Xp..190POF Output file: /Exps/c201c/v1/1234/No0032/Xp.W.192.190POF

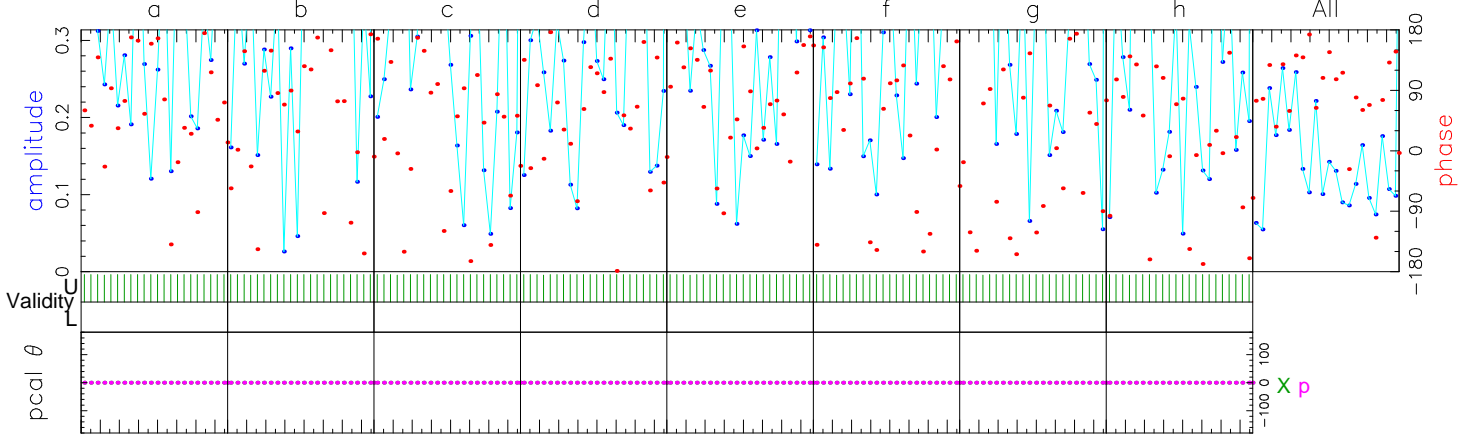
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, Xp
ONSALA60 - VLBA_PT, fgroup W, pol LR



Fringe quality 0
SNR 5.9
Int time 438.950
Amp 0.105
Phase 103.3
PFD 6.2e-01
Delays (us)
SBD 0.217067
MBD -0.002088
Fringe rate (Hz)
-0.193614
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
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, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

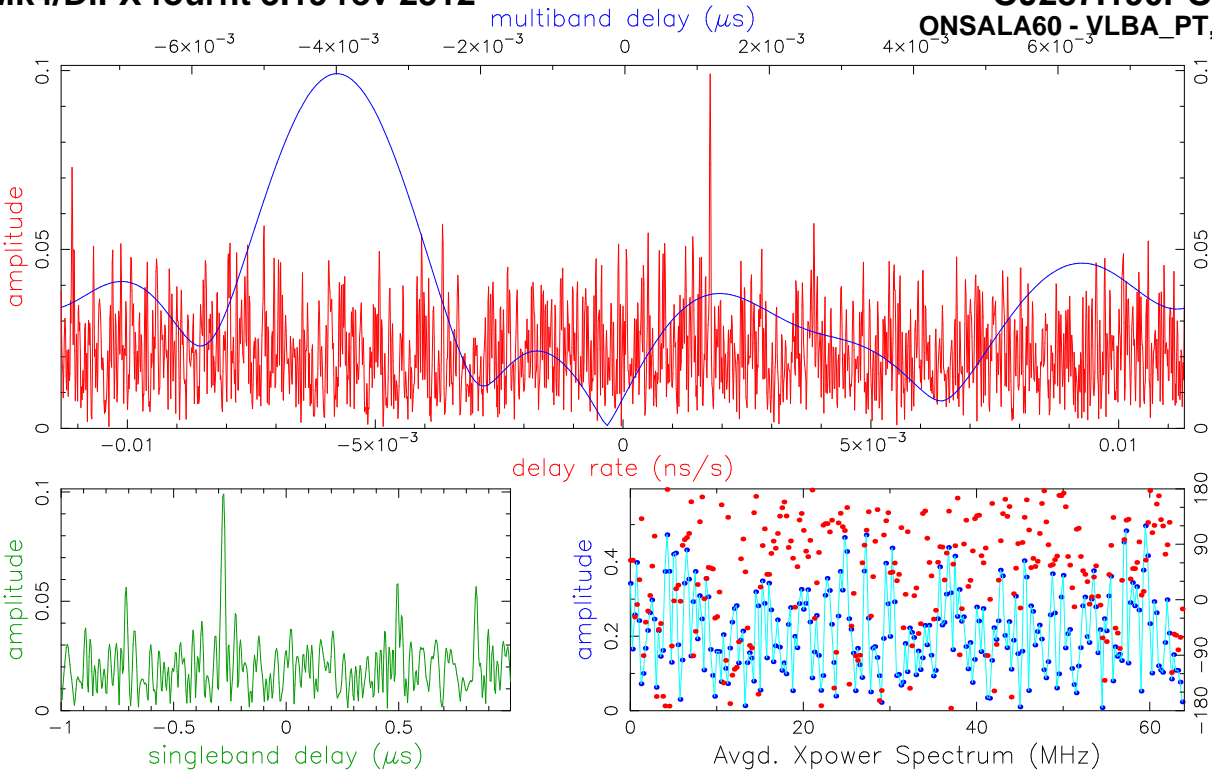


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	77.8	128.2	112.3	85.6	98.8	127.5	166.1	96.8	Phase	103.3
	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	Ampl.	0.1
	286.5	300.5	180.6	294.1	165.4	227.4	250.7	345.3	Sbd box	312.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.24906612074E+03		Apriori delay (usec)		5.24884945839E+03		Resid mbdelay (usec)		-2.08765E-03	+/- 1.8E-04
Sband delay (usec)	5.24906652589E+03		Apriori clock (usec)		2.3500267E+01		Resid sbdelay (usec)		2.17067E-01	+/- 1.5E-03
Phase delay (usec)	5.24884946172E+03		Apriori clockrate (us/s)		3.2400002E-07		Resid phdelay (usec)		3.33209E-06	+/- 6.3E-07
Delay rate (us/s)	-1.72334982924E+00		Apriori rate (us/s)		-1.72334758158E+00		Resid rate (us/s)		-2.24766E-06	+/- 2.5E-09
Total phase (deg)	227.7		Apriori accel (us/s/s)		-1.70046306097E-05		Resid phase (deg)		103.3	+/- 19.4

ph/seg (deg) 52.7 Theor. 46.6 Amplitude 0.105 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 71.1 81.4 Search (2048X32) 0.100 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 32.3 27.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 37.5 48.0 Inc. seg. avg. 0.107 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
X: az 239.7 el 40.6 pa 29.7 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 10472.362 1777.650 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Xp..190POF Output file: /Exps/c201c/v1/1234/No0032/Xp.W.206.190POF simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, Xp
ONSALA60 - VLBA_PT, fgroup W, pol RL

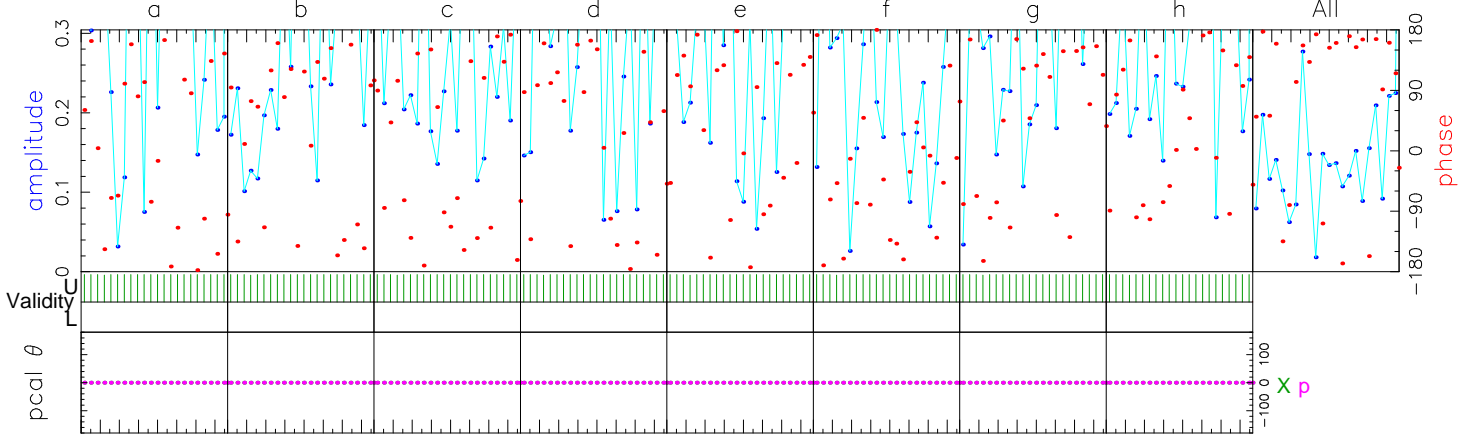


Fringe quality 0

SNR 5.8
Int time 438.950
Amp 0.101
Phase 159.0
PFD 8.8e-01
Delays (us)
SBD -0.278948
MBD -0.004044
Fringe rate (Hz) 0.151543
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

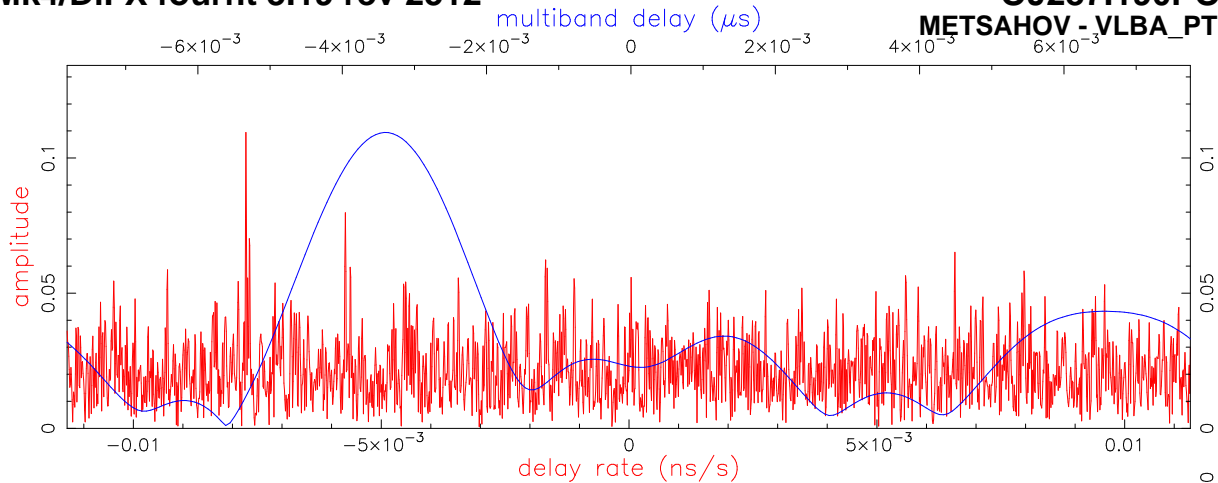
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210610
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



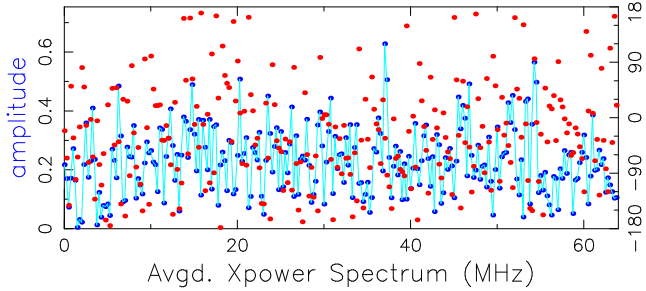
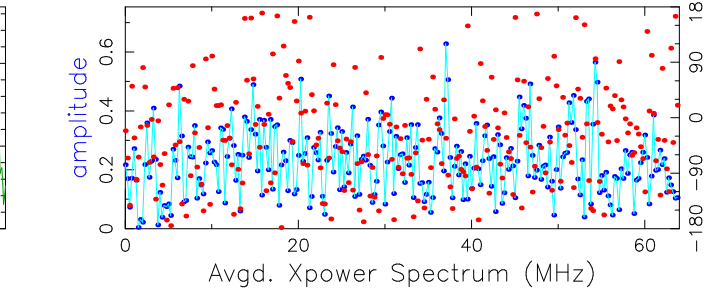
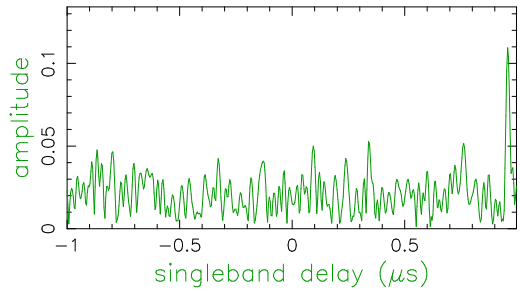
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		5.24856416439E+03			5.24884945839E+03				-4.04399E-03	+/- 1.9E-04
Sband delay (usec)		5.24857051089E+03			2.3500267E+01				-2.78948E-01	+/- 1.5E-03
Phase delay (usec)		5.24884946351E+03			3.2400002E-07				5.12697E-06	+/- 6.4E-07
Delay rate (us/s)		-1.72334582232E+00			-1.72334758158E+00				1.75926E-06	+/- 2.5E-09
Total phase (deg)			283.3						159.0	+/- 19.9
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) 54.6 47.7 Search (2048X32) 0.098 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 73.0 83.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 43.3 28.2 Inc. seg. avg. 0.103 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 43.5 49.1 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
X: az 239.7 el 40.6 pa 29.7 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 10472.362 1777.650 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Xp..190POF Output file: /Exps/c201c/v1/1234/No0032/Xp.W.222.190POF



Fringe quality 0

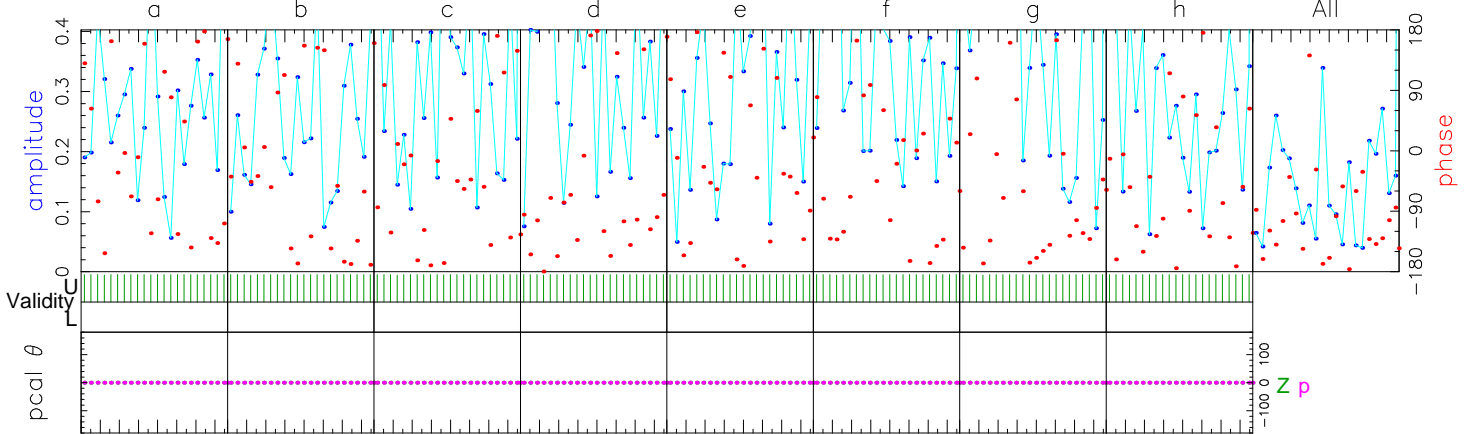
SNR 6.3
 Int time 438.419
 Amp 0.134
 Phase -125.1
 PFD 7.9e-02
 Delays (us)
 SBD 0.957932
 MBD -0.003404
 Fringe rate (Hz)
 -0.666545
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Avgd. Xpower Spectrum (MHz)

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 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, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

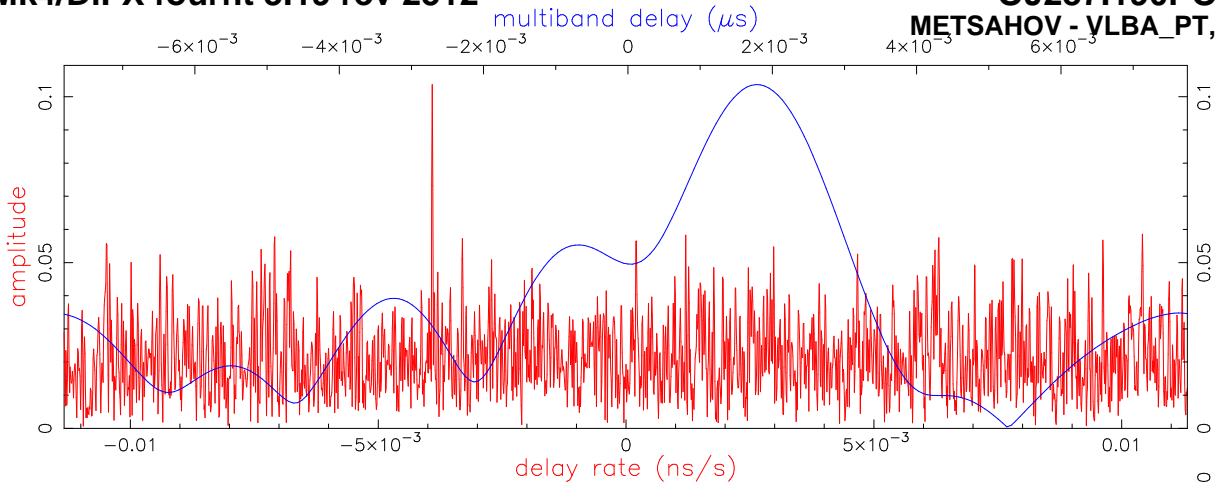


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-125.5	-153.0	-106.5	-125.4	-114.9	-110.6	-148.1	-113.6	Phase	-125.1
	0.2	0.1	0.1	0.3	0.1	0.1	0.2	0.1	Ampl.	0.1
	427.6	34.8	441.9	503.1	479.9	131.6	79.7	409.2	Sbd box	502.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

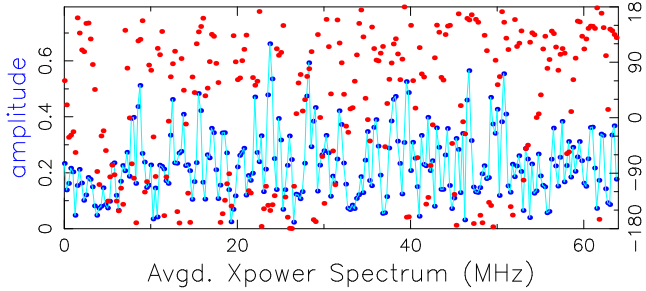
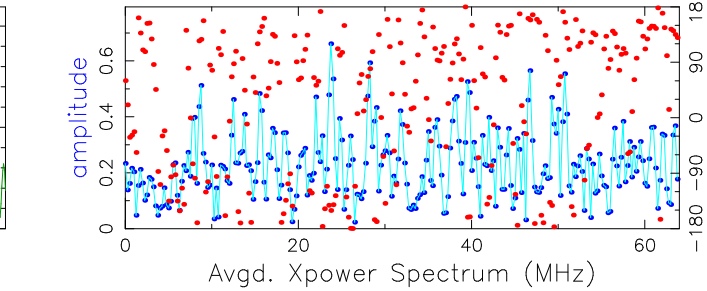
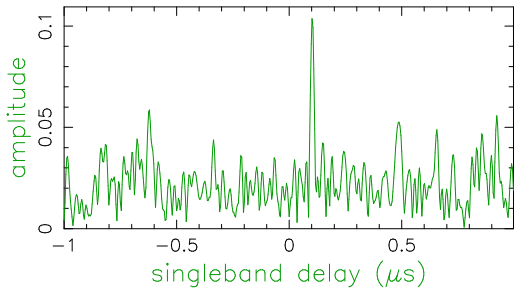
Group delay (usec)(sbd)	3.10848205879E+03	Apriori delay (usec)		3.10751671256E+03	Resid mbdelay (usec)		-3.40377E-03	+/-	1.7E-04	
Sband delay (usec)	3.10847464481E+03	Apriori clock (usec)		-1.7405390E+01	Resid sbdelay (usec)		9.57932E-01	+/-	1.4E-03	
Phase delay (usec)	3.10751670853E+03	Apriori clockrate (us/s)		-1.8799999E-07	Resid phdelay (usec)		-4.03305E-06	+/-	5.9E-07	
Delay rate (us/s)	-1.77741051264E+00	Apriori rate (us/s)		-1.77740277472E+00	Resid rate (us/s)		-7.73792E-06	+/-	2.3E-09	
Total phase (deg)		98.2	Apriori accel (us/s/s)		-4.84647685724E-06	Resid phase (deg)		-125.1	+/-	18.2

ph/seg (deg)	51.0	Theor. 43.6	Amplitude	0.134 +/- 0.021	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000	1.000
amp/seg (%)	87.8	76.2	Search (2048X32)	0.106	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.008	0.008
ph/frq (deg)	18.7	25.7	Inc. seg. avg.	0.137	Bits/sample: 2x2		Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011
amp/frq (%)	45.2	44.9	Inc. frq. avg.	0.126	Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00	0.00

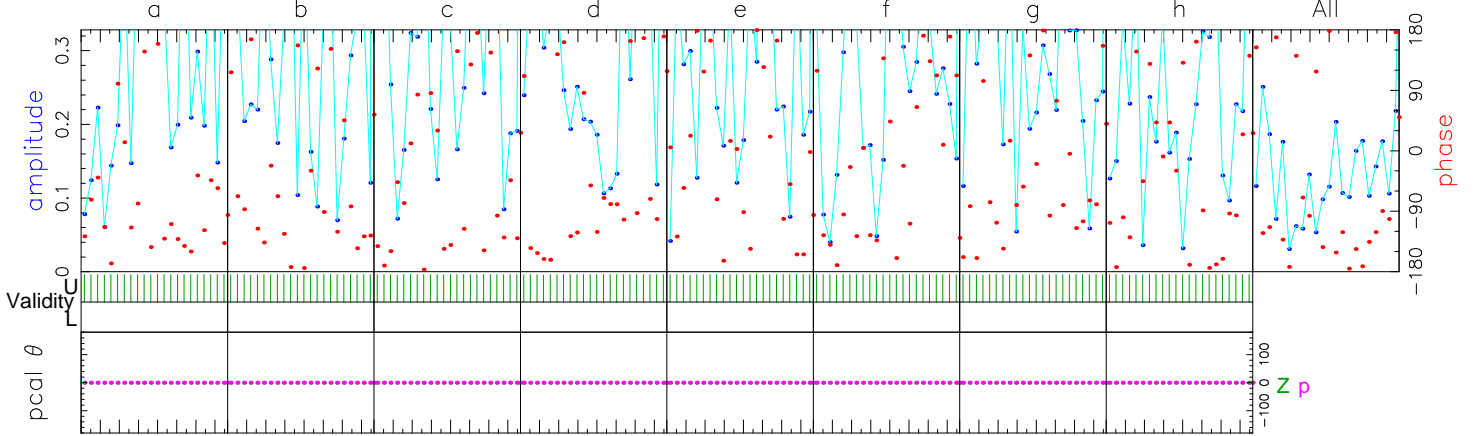
Z: az 250.5 el 33.6 pa 29.9 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 10821.693 2337.108 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Zp..190POF Output file: /Exps/c201c/v1/1234/No0032/Zp.W.204.190POF



Fringe quality 0
 SNR 6.0
 Int time 438.419
 Amp 0.109
 Phase -142.9
 PFD 4.7e-01
 Delays (us)
 SBD 0.102504
 MBD 0.001797
 Fringe rate (Hz)
 -0.337369
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 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"

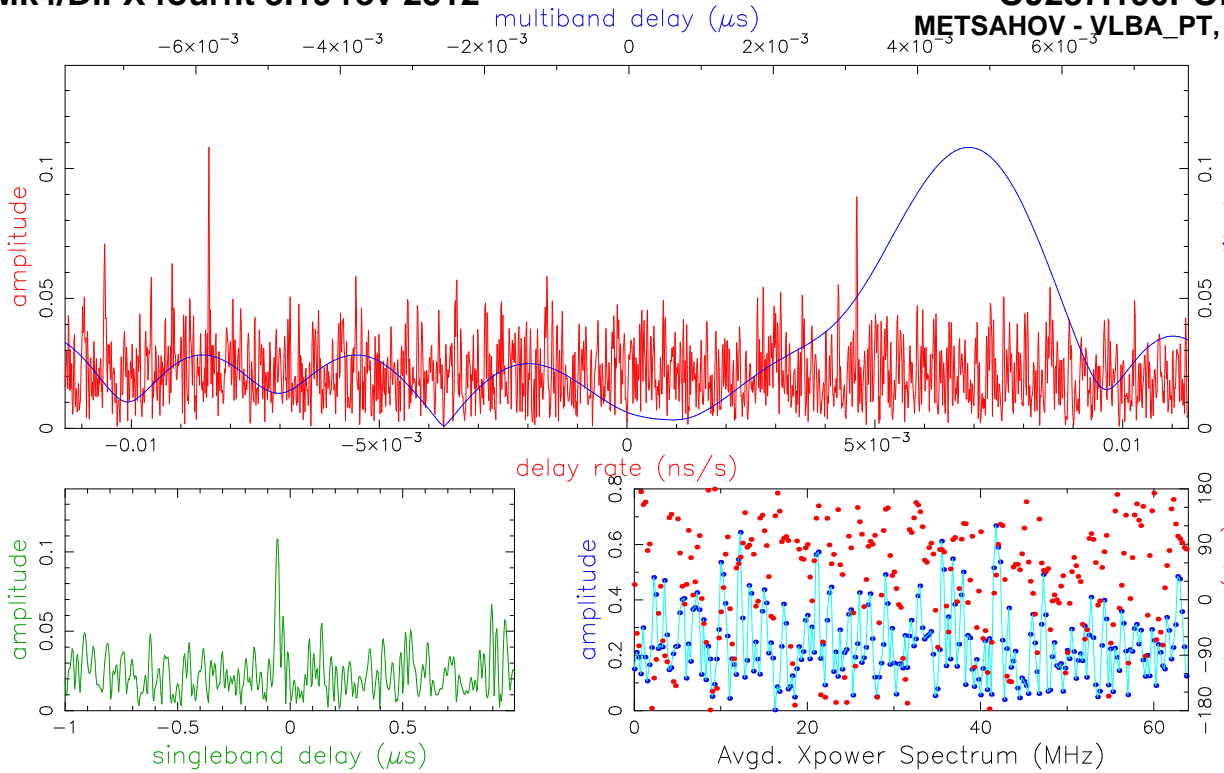


Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-125.3	-136.1	-165.9	-149.1	-167.3	159.7	-90.0	-162.8	Phase	-142.9
	0.2	0.2	0.2	0.2	0.1	0.0	0.1	0.1	Ampl.	0.1
	341.2	43.9	277.7	284.1	308.1	83.7	63.6	123.0	Sbd box	283.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.10761225984E+03		Apriori delay (usec)		3.10751671256E+03		Resid mbdelay (usec)		1.79728E-03	+/- 1.8E-04
Sband delay (usec)	3.10761921631E+03		Apriori clock (usec)		-1.7405390E+01		Resid sbdelay (usec)		1.02504E-01	+/- 1.4E-03
Phase delay (usec)	3.10751670795E+03		Apriori clockrate (us/s)		-1.8799999E-07		Resid phdelay (usec)		-4.60926E-06	+/- 6.2E-07
Delay rate (us/s)	-1.77740669124E+00		Apriori rate (us/s)		-1.77740277472E+00		Resid rate (us/s)		-3.91652E-06	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		-4.84647685724E-06		Resid phase (deg)		-142.9	+/- 19.2

ph/seg (deg) 44.2 46.1 Amplitude 0.109 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 60.9 80.4 Search (2048X32) 0.100 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 36.5 27.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 49.4 47.4 Inc. seg. 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
 Z: az 250.5 el 33.6 pa 29.9 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 10821.693 2337.108 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Zp..190POF Output file: /Exps/c201c/v1/1234/No0032/Zp.W.220.190POF

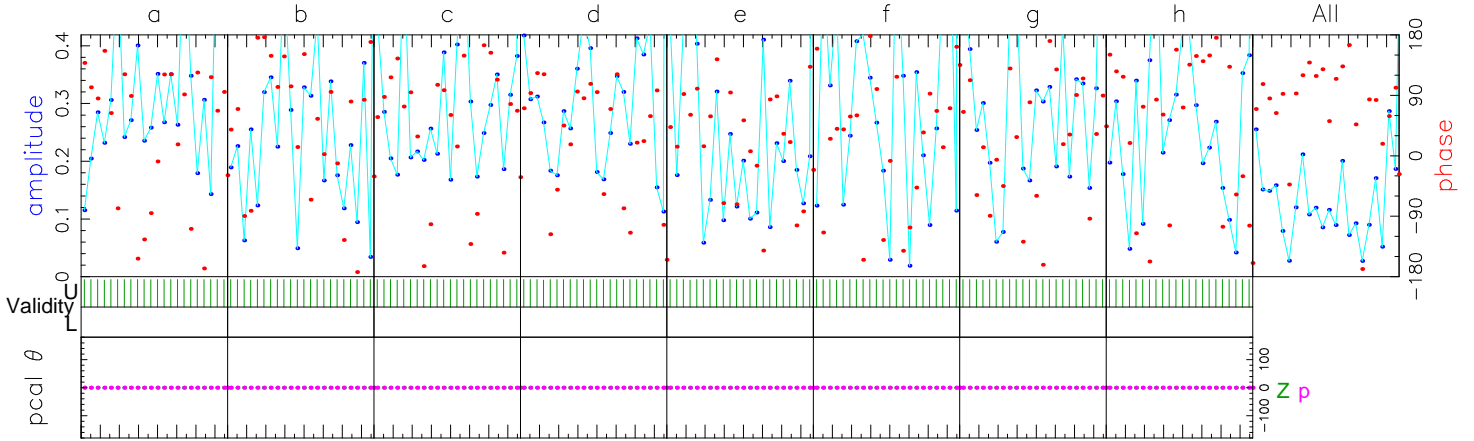


Fringe quality 0

SNR 6.3
 Int time 438.419
 Amp 0.140
 Phase 92.2
 PFD 8.1e-02
 Delays (us)
 SBD -0.056513
 MBD 0.004740
 Fringe rate (Hz)
 -0.727462
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

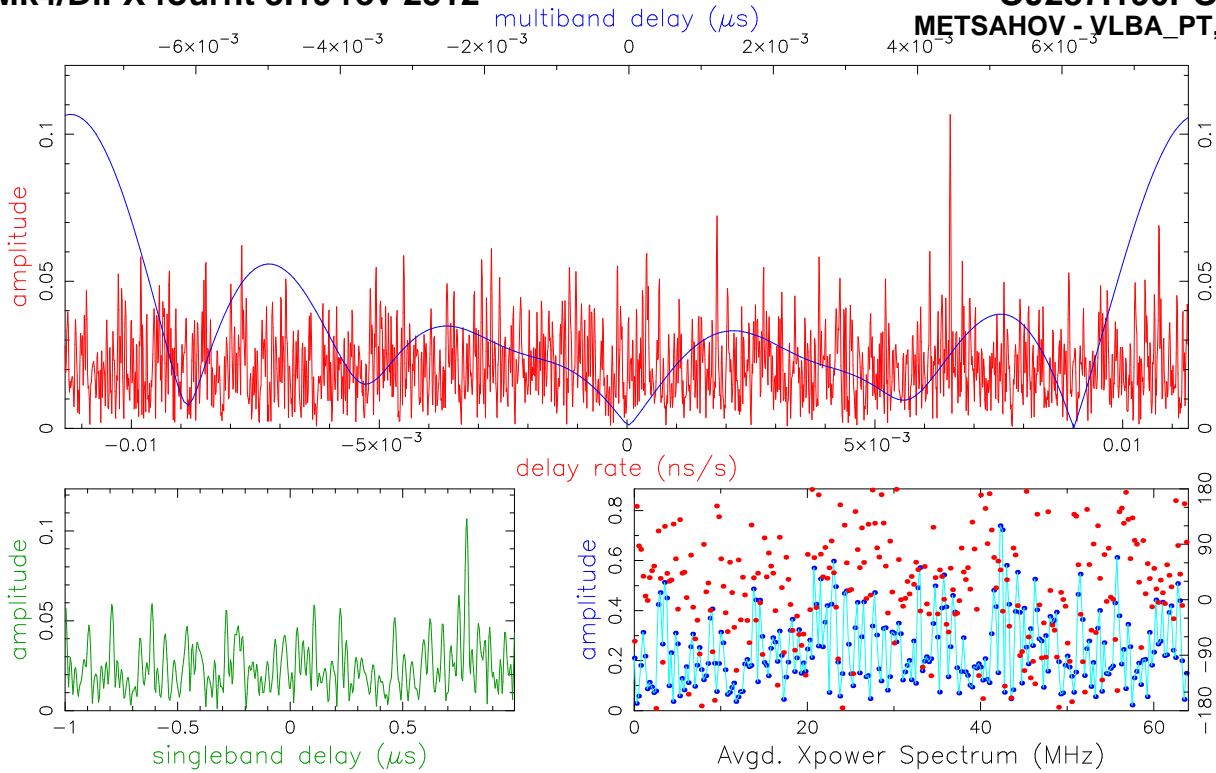
Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210613
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



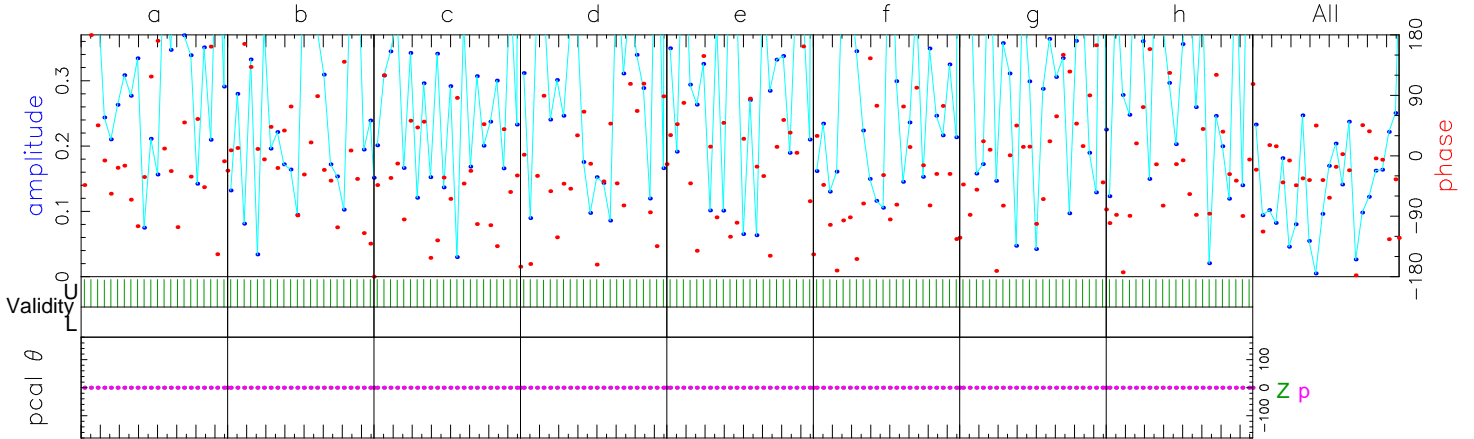
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
106.2	108.5	102.5	71.7	66.5	77.0	71.8	147.3	147.3	Phase	92.2
0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1
152.5	485.1	475.3	334.5	413.8	185.9	372.4	9.6	9.6	Sbd box	242.5
U/L 859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:p 0:0	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	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.10745895222E+03		Apriori delay (usec)		3.10751671256E+03		Resid mbdelay (usec)		4.73966E-03	+/- 1.7E-04
Sband delay (usec)	3.10746019981E+03		Apriori clock (usec)		-1.7405390E+01		Resid sbdelay (usec)		-5.65128E-02	+/- 1.4E-03
Phase delay (usec)	3.10751671554E+03		Apriori clockrate (us/s)		-1.8799999E-07		Resid phdelay (usec)		2.97371E-06	+/- 5.9E-07
Delay rate (us/s)	-1.77741121983E+00		Apriori rate (us/s)		-1.77740277472E+00		Resid rate (us/s)		-8.44511E-06	+/- 2.3E-09
Total phase (deg)			Apriori accel (us/s/s)		-4.84647685724E-06		Resid phase (deg)		92.2	+/- 18.2

ph/seg (deg) 49.1 43.7 Search (2048X32) 0.105 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 64.7 76.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 29.8 25.7 Inc. seg. avg. 0.128 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 20.9 44.9 Inc. frq. avg. 0.137 Sample rate(MISamp/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 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 10821.693 2337.108 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Zp..190POF Output file: /Exps/c201c/v1/1234/No0032/Zp.W.232.190POF



Fringe quality 0
 SNR 6.1
 Int time 438.419
 Amp 0.123
 Phase -26.1
 PFD 2.0e-01
 Delays (us)
 SBD 0.784262
 MBD 0.007855
 Fringe rate (Hz) 0.562480
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build 2020:202:063214
 2020:202:210617
 2020:014:135814
 RA & Dec (J2000) 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 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
	-42.8	-0.9	-42.7	-18.0	-7.7	-72.4	-9.2	-21.6	Phase	-26.1
	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	Ampl.	0.1
	6.7	360.7	464.4	159.3	484.3	357.9	273.9	38.9	Sbd box	457.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.10830581793E+03		Apriori delay (usec)		3.10751671256E+03		Resid mbdelay (usec)		7.85537E-03	+/- 1.8E-04
Sband delay (usec)	3.10830097431E+03		Apriori clock (usec)		-1.7405390E+01		Resid sbdelay (usec)		7.84262E-01	+/- 1.4E-03
Phase delay (usec)	3.10751671172E+03		Apriori clockrate (us/s)		-1.8799999E-07		Resid phdelay (usec)		-8.41910E-07	+/- 6.0E-07
Delay rate (us/s)	-1.77739624488E+00		Apriori rate (us/s)		-1.77740277472E+00		Resid rate (us/s)		6.52984E-06	+/- 2.4E-09
Total phase (deg)	197.1		Apriori accel (us/s/s)		-4.84647685724E-06		Resid phase (deg)		-26.1	+/- 18.7

ph/seg (deg) 53.2 44.7 Amplitude 0.123 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.5 78.1 Search (2048X32) 0.104 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 26.0 26.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 33.9 46.1 Inc. seg. avg. 0.121 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Z: az 250.5 el 33.6 pa 29.9 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 10821.693 2337.108 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Zp..190POF Output file: /Exps/c201c/v1/1234/No0032/Zp.W.237.190POF simultaneous interpolator