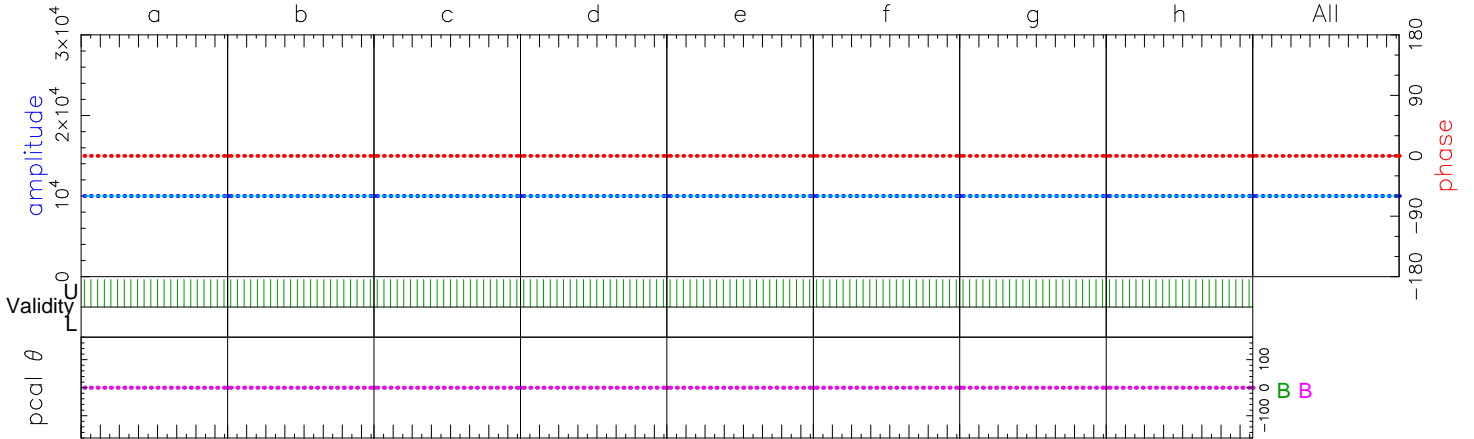


Fringe quality 9

SNR 573446.1  
Int time 439.734  
Amp 10000.000  
Phase 0.0  
PFD 0.0e+00  
Delays (us)  
SBD 0.000000  
MBD 0.000000  
Fringe rate (Hz) 0.000000  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

Exp. c201c  
Yr:day 16383  
Yr:day 2020:117  
Start 204500.00  
Stop 205219.80  
FRT 204840.00  
Corr/FF/build  
2020:202:063214  
2020:202:210520  
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
B	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
B	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	Resid mbdelay (usec)	0.00000E+00 +/- 1.9E-09
Sband delay (usec)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	Resid sbdelay (usec)	0.00000E+00 +/- 1.5E-08
Phase delay (usec)	8.53375056586E-20	8.53375056586E-20	8.53375056586E-20	8.53375056586E-20	8.53375056586E-20	8.53375056586E-20	8.53375056586E-20	8.53375056586E-20	Resid phdelay (usec)	8.53375E-20 +/- 6.4E-12
Delay rate (us/s)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	Resid rate (us/s)	0.00000E+00 +/- 2.5E-14
Total phase (deg)			0.0						Resid phase (deg)	0.0 +/- 0.0

RMS Theor. Amplitude 10000.000 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.000 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

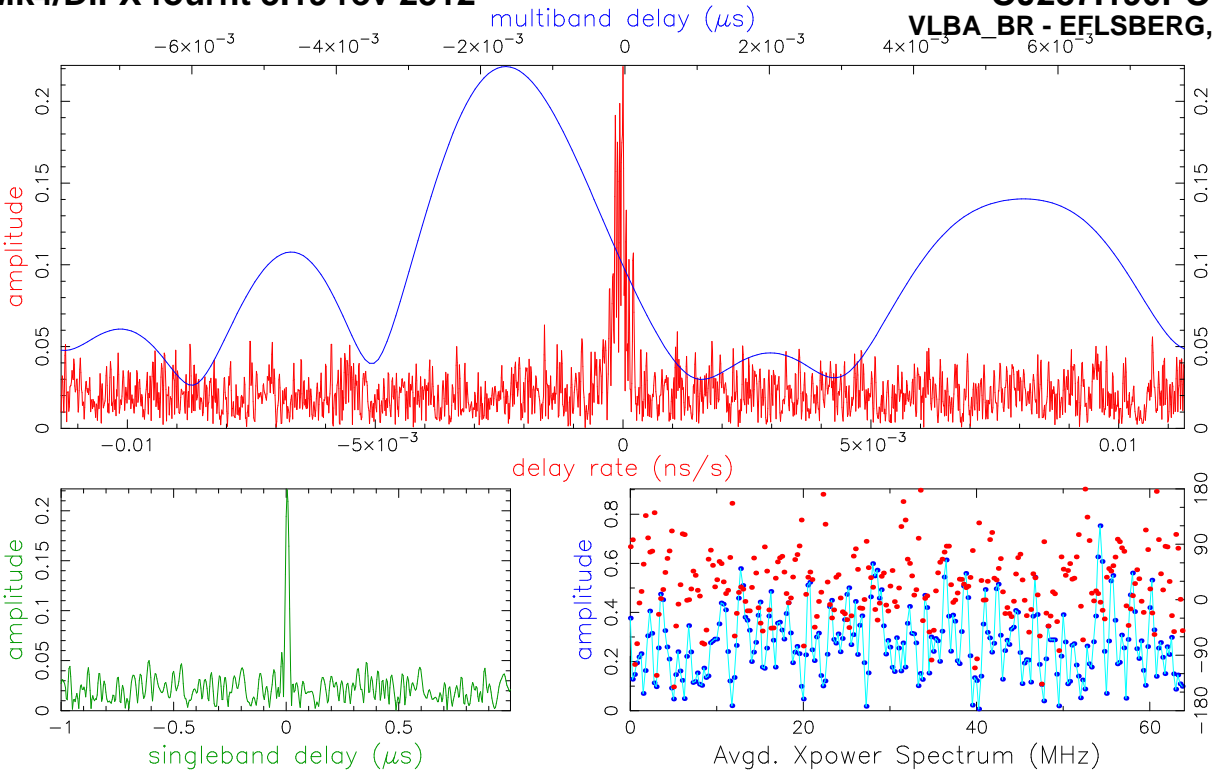
B: az 239.9 el 46.7 pa 35.9 B: az 239.9 el 46.7 pa 35.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/BB..190POF Output file: /Exps/c201c/v1/1234/No0032/BB.W.25.190POF

Mk4/DiFX fourfit 3.19 rev 2512

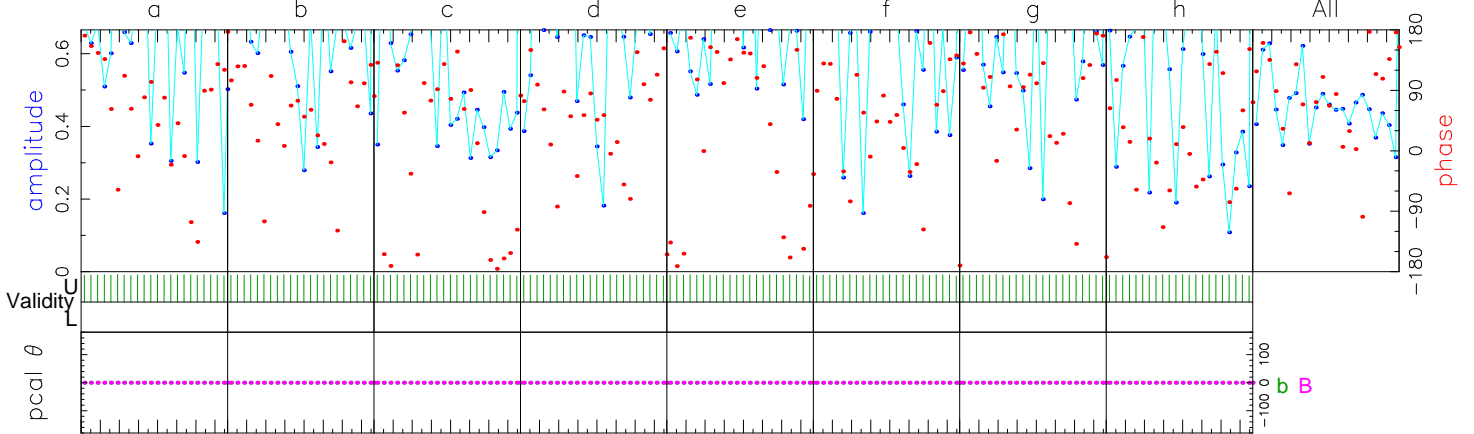
OJ287.190POF, No0032, bB

VLBA\_BR - EFLSBERG, fgroup W, pol RR



Fringe quality 9  
 SNR 12.6  
 Int time 432.351  
 Amp 0.222  
 Phase 94.3  
 PFD 8.5e-28  
 Delays (us)  
 SBD 0.004667  
 MBD -0.001637  
 Fringe rate (Hz)  
 -0.000447  
 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  
 2020:202:210520  
 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

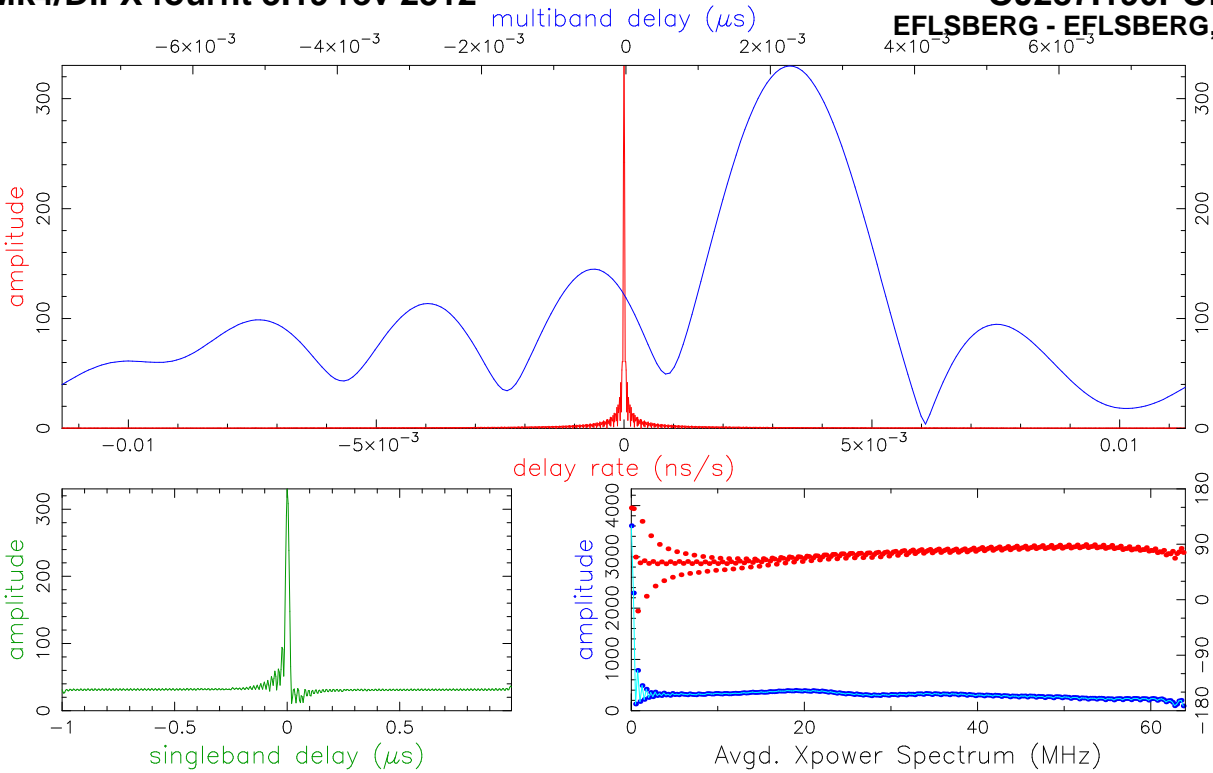


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	82.3	77.7	146.9	64.5	158.6	79.6	108.4	-6.6	Phase	94.3
	0.3	0.4	0.2	0.4	0.4	0.3	0.3	0.2	Ampl.	0.3
	258.2	258.4	258.1	257.7	257.5	256.4	258.2	256.1	Sbd box	258.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:B	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	
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-9.02881407046E+03		Apriori delay (usec)		-9.02881243321E+03		Resid mbdelay (usec)		-1.63725E-03	+/- 8.6E-05
Sband delay (usec)	-9.02880776596E+03		Apriori clock (usec)		-1.4451098E+01		Resid sbdelay (usec)		4.66725E-03	+/- 6.8E-04
Phase delay (usec)	-9.02881243017E+03		Apriori clockrate (us/s)		1.5800000E-07		Resid phdelay (usec)		3.04136E-06	+/- 2.9E-07
Delay rate (us/s)	1.57392372618E+00		Apriori rate (us/s)		1.57392373137E+00		Resid rate (us/s)		-5.19302E-09	+/- 1.2E-09
Total phase (deg)			Apriori accel (us/s/s)		4.68779652822E-05		Resid phase (deg)		94.3	+/- 9.1

	RMS	Theor.	Amplitude	0.222 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	70.9	21.8	Search (2048X32)	0.205	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	111.6	38.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	56.0	12.8	Inc. seg. avg.	0.425	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	46.2	22.4	Inc. frq. avg.	0.288	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

b: az 78.2 el 16.5 pa -44.1 B: az 239.9 el 46.7 pa 35.9 u,v (fr/asec) -9515.128 1168.064 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/bB..190POF Output file: /Exps/c201c/v1/1234/No0032/bB.W.26.190POF



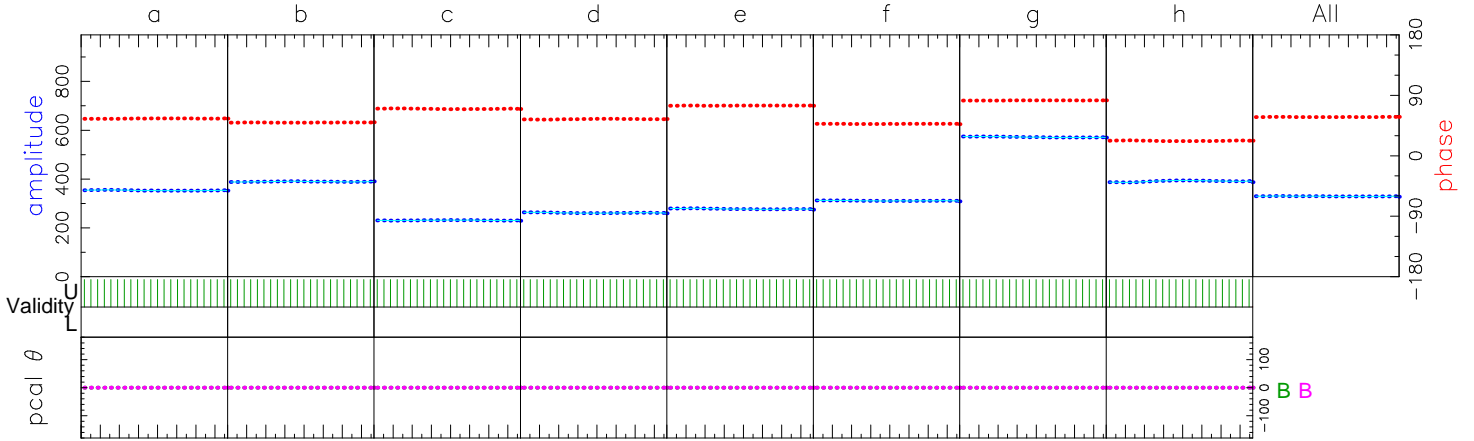


Fringe quality 7

SNR 18942.2  
Int time 439.734  
Amp 330.322  
Phase 57.7  
PFD 0.0e+00  
Delays (us)  
SBD 0.000547  
MBD 0.002291  
Fringe rate (Hz) -0.000002  
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  
2020:202:210524  
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		
B:B	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		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	55.3	49.4	69.9	54.5	74.6	47.5	82.3	22.3	2.29094E-03	+/- 5.7E-08
Sband delay (usec)	353.8	389.5	231.1	261.9	277.9	311.4	572.2	391.2	5.47250E-04	+/- 4.5E-07
Phase delay (usec)	257.8	257.4	257.2	258.0	257.1	257.2	256.4	256.7	1.86088E-06	+/- 2.0E-10
Delay rate (us/s)									-2.26738E-11	+/- 7.7E-13
Total phase (deg)			57.7						57.7	+/- 0.0

ph/seg (deg) 0.1 0.0  
amp/seg (%) 0.2 0.0  
ph/frq (deg) 20.3 0.0  
amp/frq (%) 31.0 0.0

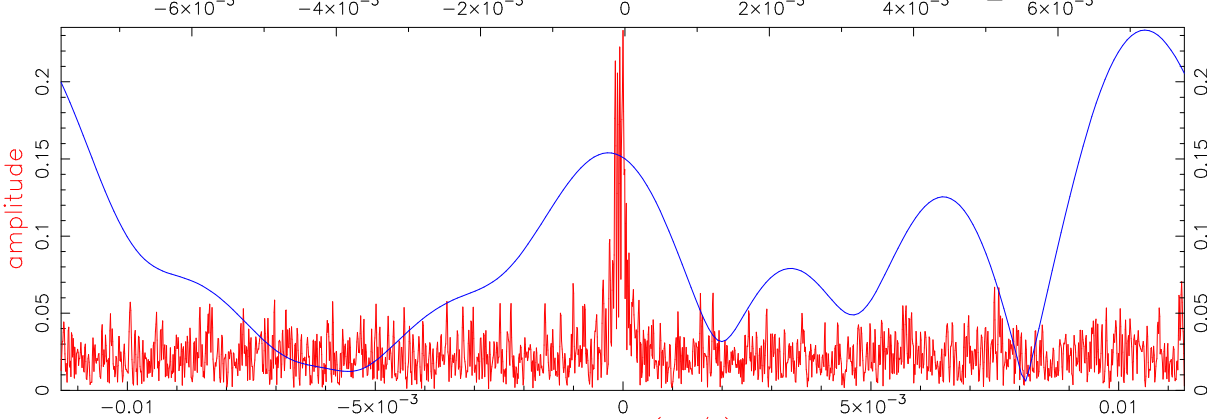
RMS Theor. Amplitude 330.322 +/- 0.017  
Search (2048X32) 325.393  
Interp. 0.000  
Inc. seg. avg. 329.712  
Inc. frq. avg. 348.622

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

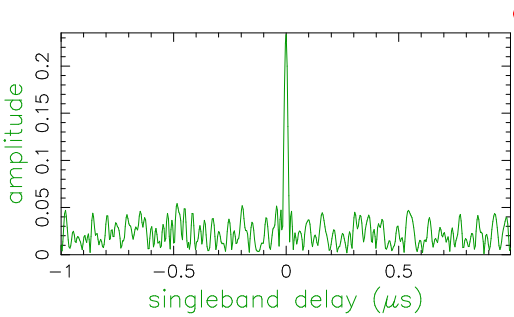
B: az 239.9 el 46.7 pa 35.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

multiband delay ( $\mu$ s)

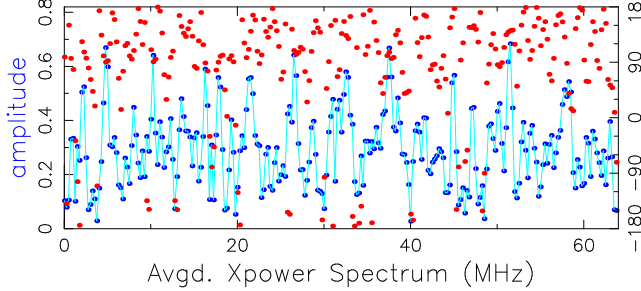


Fringe quality 9

SNR 13.4  
 Int time 432.351  
 Amp 0.235  
 Phase 25.3  
 PFD 4.6e-32  
 Delays (us)  
 SBD -0.001158  
 MBD 0.007162  
 Fringe rate (Hz)  
 -0.000451  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

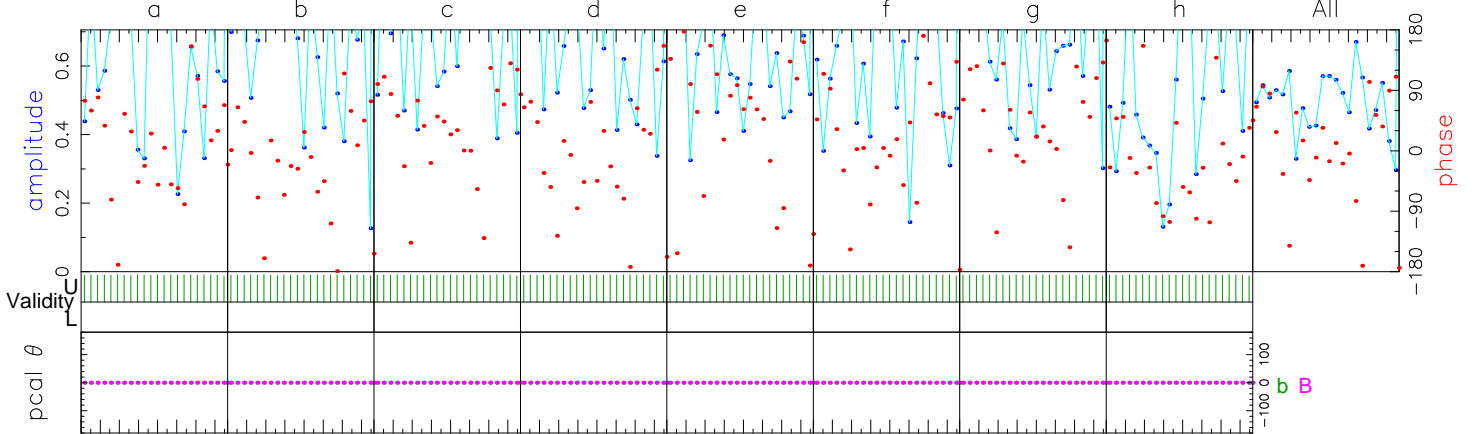


delay rate (ns/s)



Exp. c201c  
 Exper # 16383  
 Yr:day 2020:117  
 Start 204500.00  
 Stop 205219.80  
 FRT 204840.00  
 Corr/FF/build  
 2020:202:063214  
 2020:202:210516  
 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



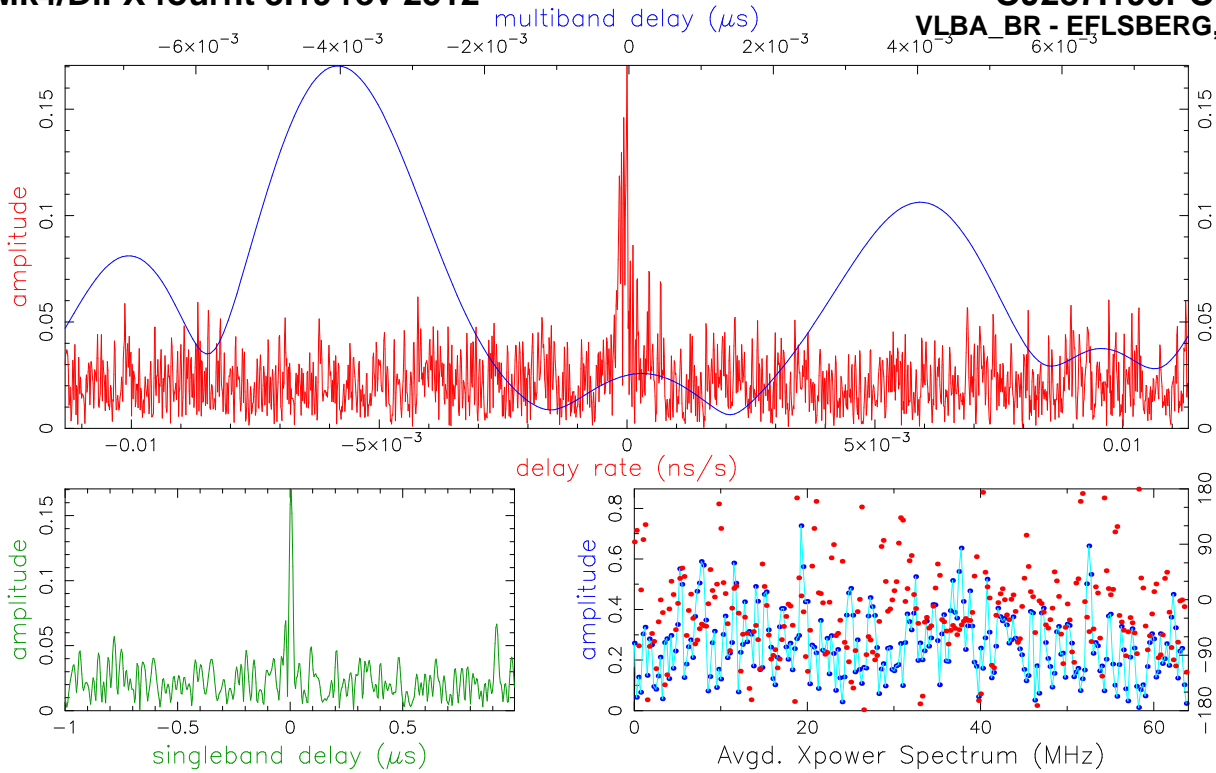
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		-9.02882089658E+03			-9.02881243321E+03				7.16163E-03	+/- 8.1E-05
Sband delay (usec)		-9.02881359171E+03			-1.4451098E+01				-1.15850E-03	+/- 6.4E-04
Phase delay (usec)		-9.02881243239E+03			1.5800000E-07				8.14811E-07	+/- 2.8E-07
Delay rate (us/s)		1.57392372613E+00			1.57392373137E+00				-5.23695E-09	+/- 1.1E-09
Total phase (deg)			-333.4		4.68779652822E-05				25.3	+/- 8.6
	RMS	Theor.	Amplitude	0.235 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	70.5	20.5	Search (2048X32)	0.219	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	117.9	35.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	48.8	12.1	Inc. seg. avg.	0.466	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	31.6	21.1	Inc. frq. avg.	0.293	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      B: az 239.9 el 46.7 pa 35.9      u,v (fr/asec) -9515.128 1168.064      simultaneous interpolator

Control file: cf\_1234\_gmva    Input file: /Exps/c201c/v1/1234/No0032/bB..190POF    Output file: /Exps/c201c/v1/1234/No0032/bB.W.5.190POF

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, bB  
VLBA\_BR - EFLSBERG, fgroup W, pol RL

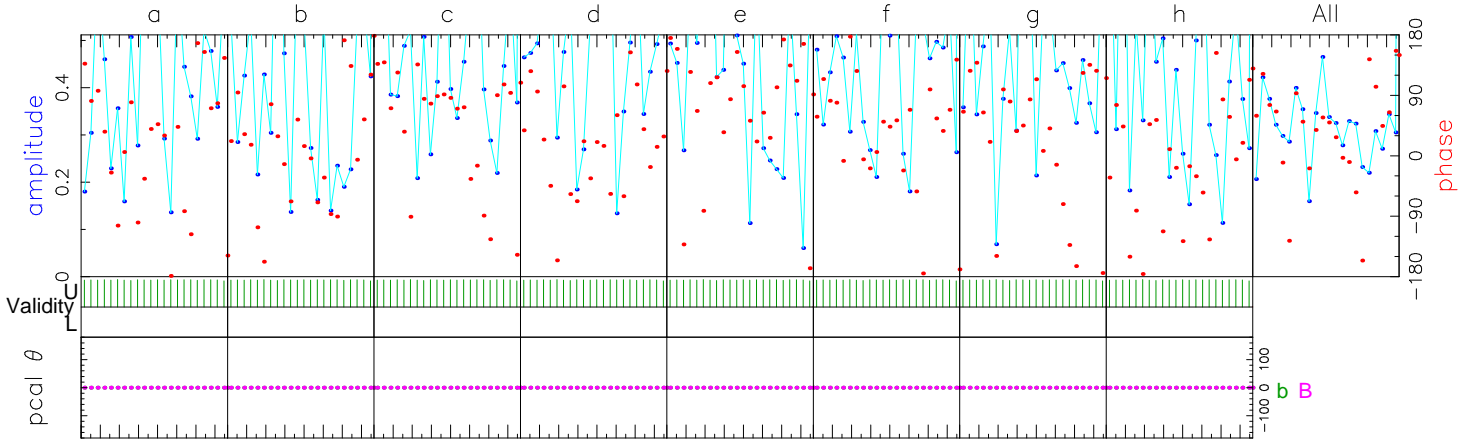


Fringe quality 9

SNR 9.7  
Int time 432.351  
Amp 0.171  
Phase 58.0  
PFD 1.2e-13  
Delays (us)  
SBD 0.003415  
MBD -0.004039  
Fringe rate (Hz)  
-0.000423  
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

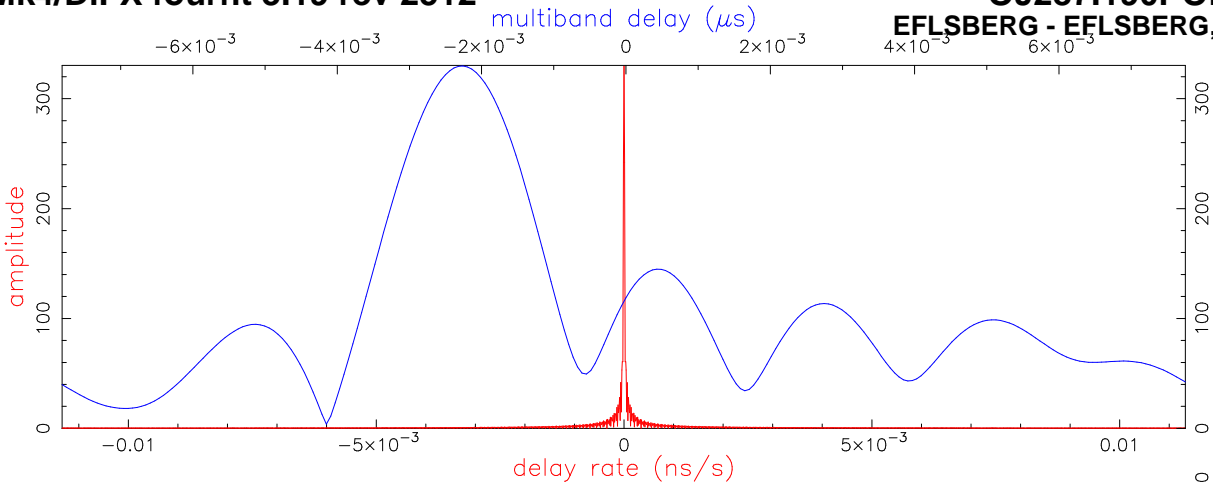


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-9.02881647221E+03									
Sband delay (usec)	-9.02880901821E+03									
Phase delay (usec)	-9.02881243133E+03									
Delay rate (us/s)	1.57392372646E+00									
Total phase (deg)			-300.7							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

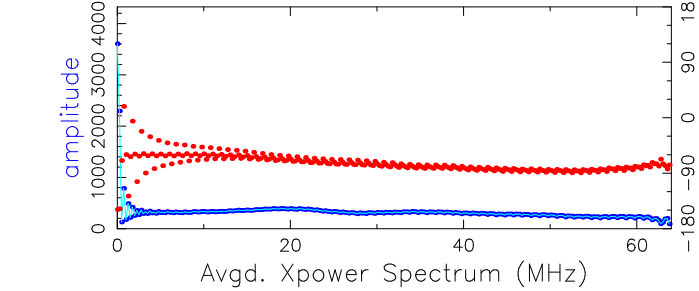
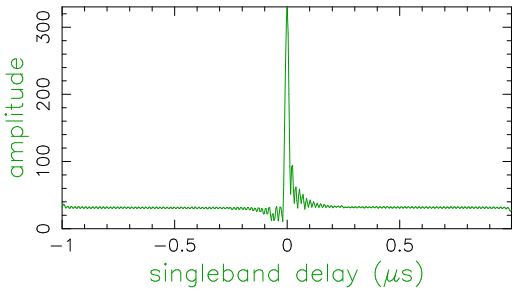
ph/seg (deg) 70.8 28.3 Search (2048X32) 0.171 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 98.0 49.4 Interp. 0.161 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 43.3 16.7 Inc. seg. avg. 0.281 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
amp/frq (%) 30.6 29.2 Inc. frq. avg. 0.205 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 B: az 239.9 el 46.7 pa 35.9 u,v (fr/asec) -9515.128 1168.064 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/bB..190POF Output file: /Exps/c201c/v1/1234/No0032/bB.W.63.190POF

Mk4/DiFX fourfit 3.19 rev 2512

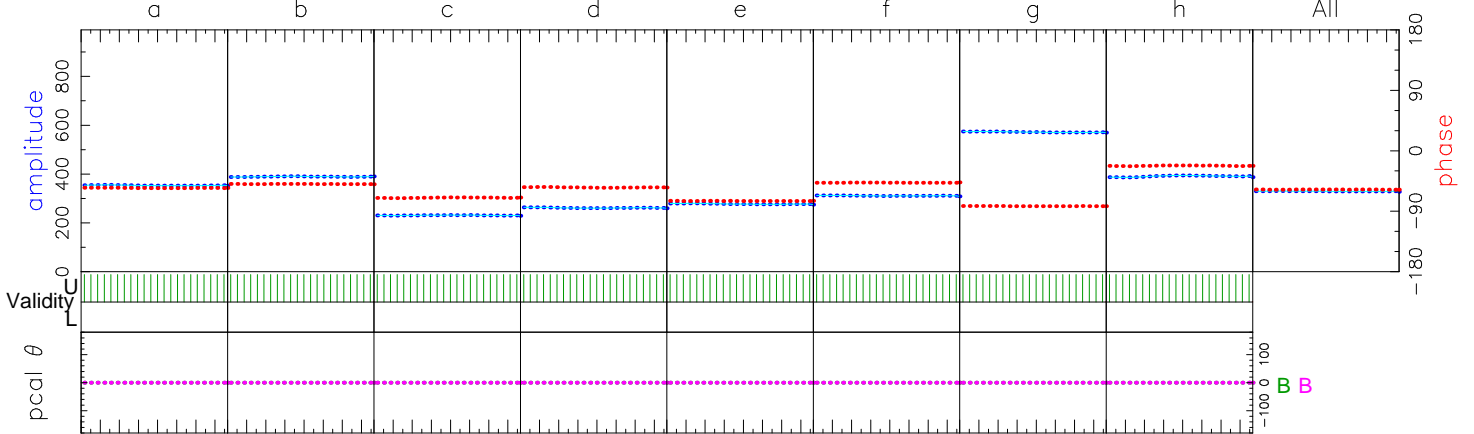
OJ287.190POF, No0032, BB  
EFLSBERG - EFLSBERG, fgroup W, pol RL



Fringe quality 7  
SNR 18942.2  
Int time 439.734  
Amp 330.322  
Phase -57.7  
PFD 0.0e+00  
Delays (us)  
SBD -0.000547  
MBD -0.002291  
Fringe rate (Hz) 0.000002  
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  
2020:202:210530  
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



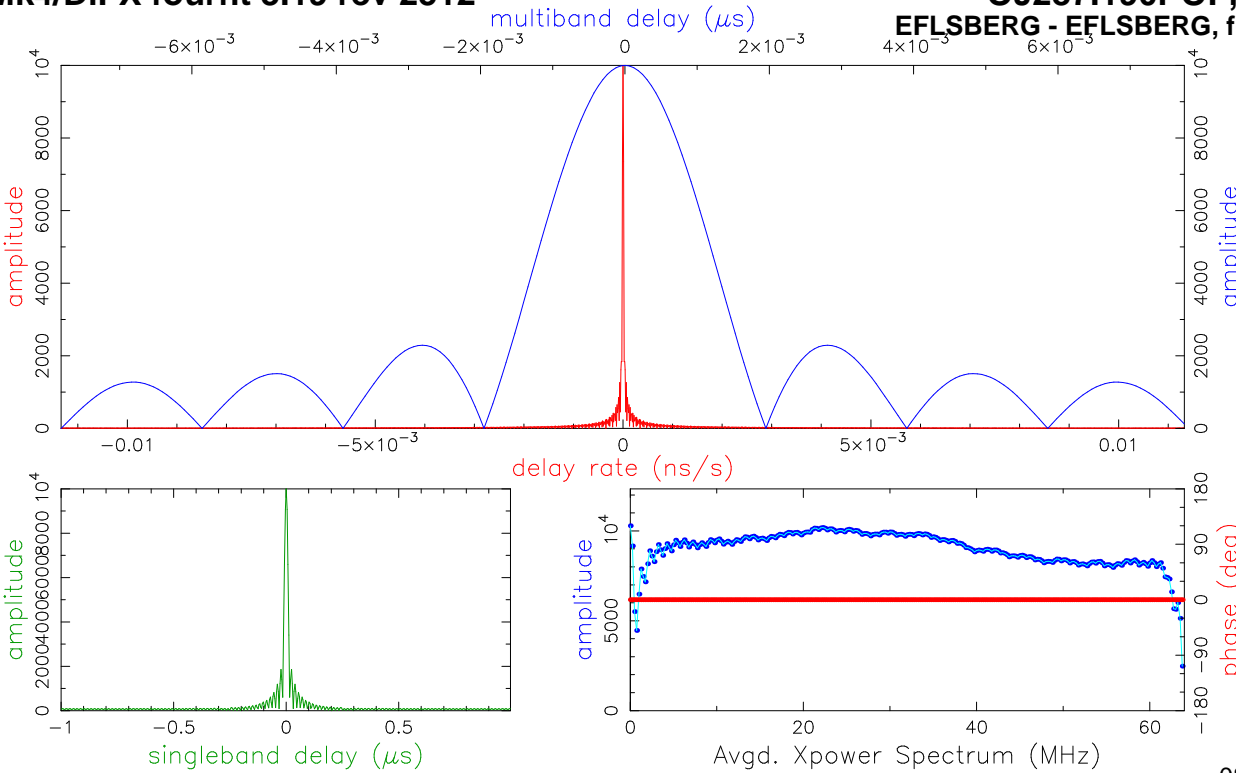
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-55.3	-49.4	-69.9	-54.5	-74.6	-47.5	-82.3	-22.3	Phase	-57.7
	353.8	389.5	231.1	261.9	277.9	311.4	572.2	391.2	Ampl.	348.6
	256.2	256.6	256.8	256.0	256.9	256.8	257.6	257.3	Sbd box	256.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:B	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	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-2.29093750000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-2.29094E-03	+/-	5.7E-08
Sband delay (usec)	-5.47250000000E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-5.47250E-04	+/-	4.5E-07
Phase delay (usec)	-1.86087901182E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.86088E-06	+/-	2.0E-10
Delay rate (us/s)	2.26738438267E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	2.26738E-11	+/-	7.7E-13
Total phase (deg)		Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-57.7	+/-	0.0

ph/seg (deg)	0.1	0.0	Search (2048X32)	325.393	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	0.2	0.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	20.3	0.0	Inc. seg. avg.	329.712	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	31.0	0.0	Inc. frq. avg.	348.622	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

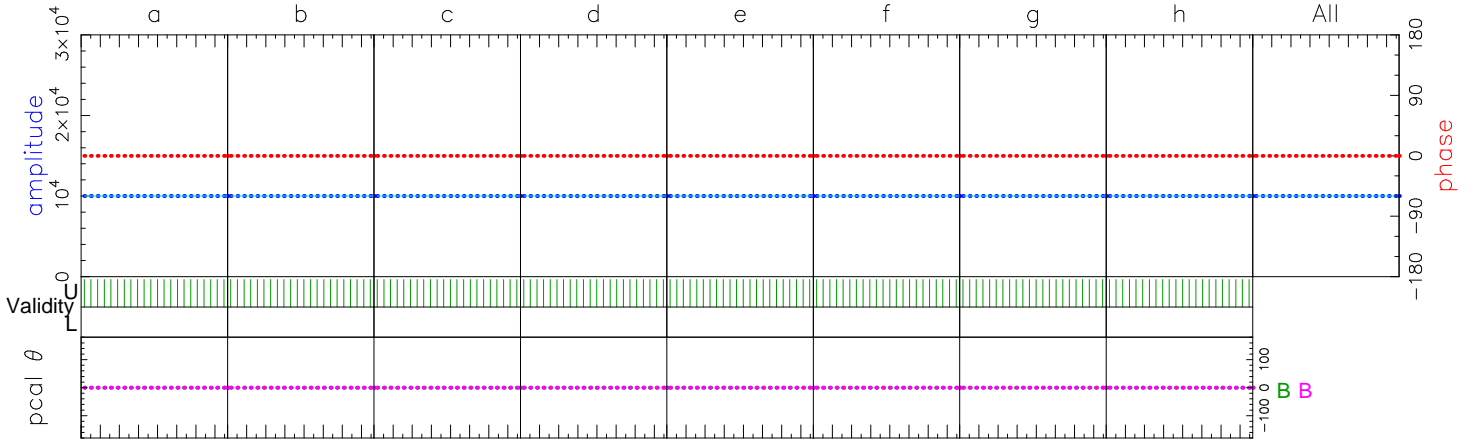
B: az 239.9 el 46.7 pa 35.9      B: az 239.9 el 46.7 pa 35.9      u,v (fr/asec) 0.000 0.000      simultaneous interpolator

Control file: cf\_1234\_gmva    Input file: /Exps/c201c/v1/1234/No0032/BB..190POF    Output file: /Exps/c201c/v1/1234/No0032/BB.W.67.190POF



Fringe quality 9  
SNR 573446.1  
Int time 439.734  
Amp 10000.000  
Phase -0.0  
PFD 0.0e+00  
Delays (us)  
SBD 0.000000  
MBD 0.000000  
Fringe rate (Hz)  
0.000000  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c201c  
Yr:day 16383  
Start 2020:117  
Stop 205219.80  
FRT 204840.00  
Corr/FF/build  
2020:202:063214  
2020:202:210516  
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

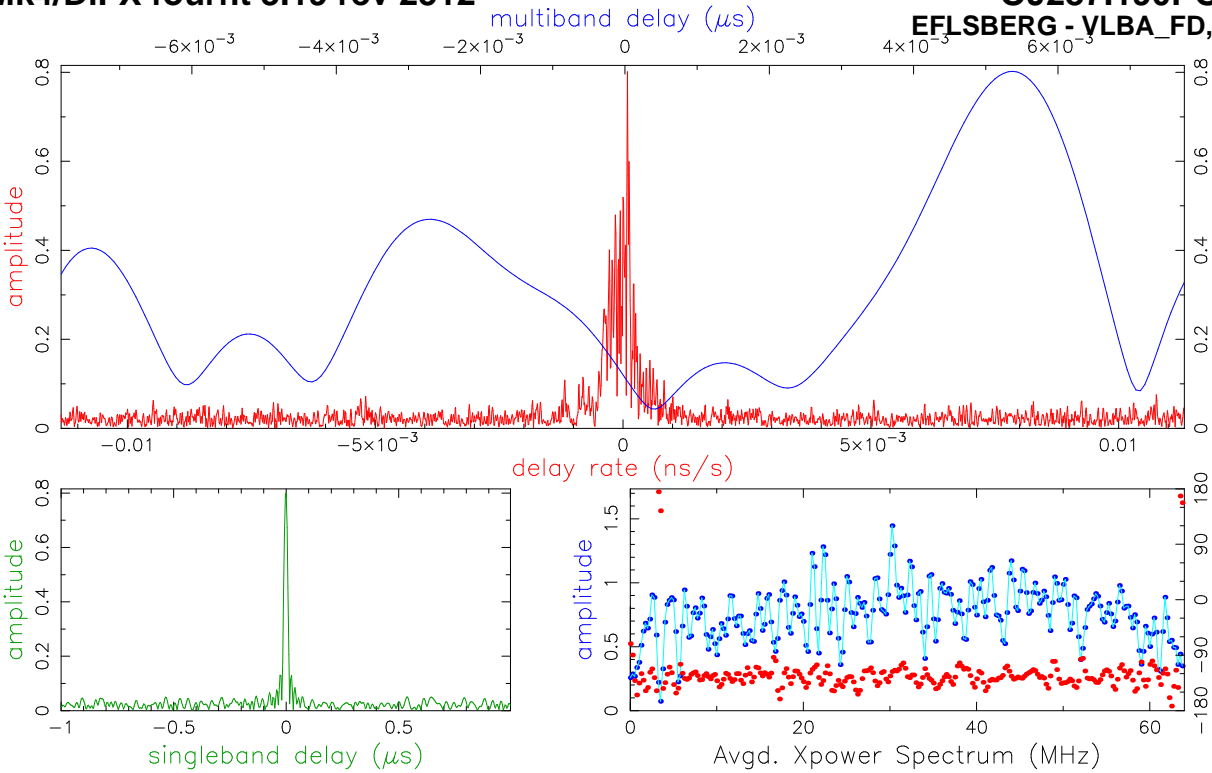


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	10000.0	10000.0
B	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
B	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
B	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 1.9E-09  
Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.5E-08  
Phase delay (usec) -1.02873658422E-21 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -1.02874E-21 +/- 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

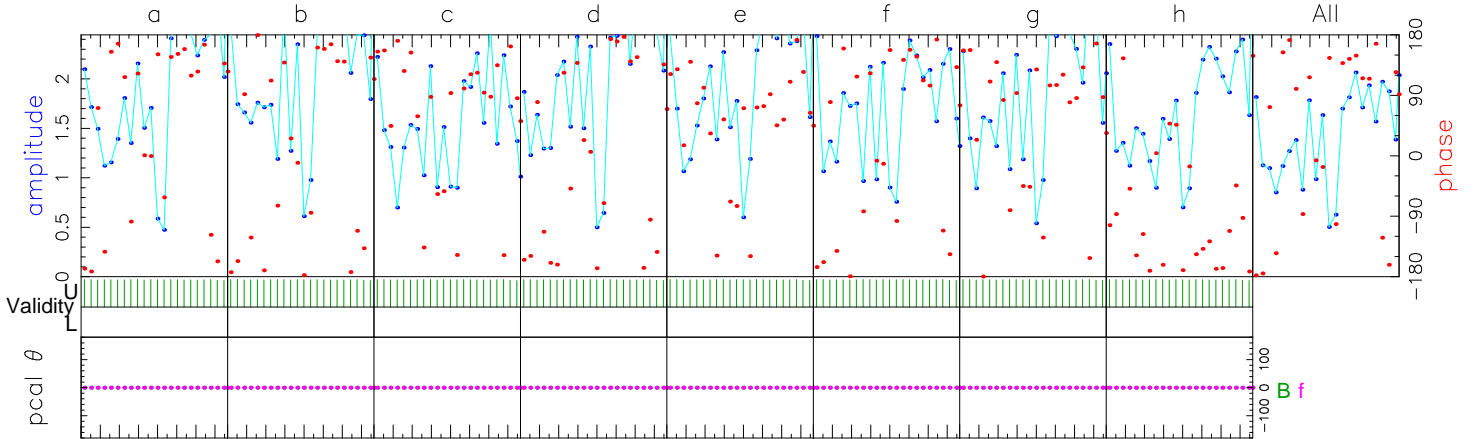
RMS Theor. Amplitude 10000.000 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
ph/seg (deg) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.000 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 B: az 239.9 el 46.7 pa 35.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator





Fringe quality 4  
 SNR 46.5  
 Int time 435.108  
 Amp 0.815  
 Phase 152.9  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.001723  
 MBD 0.005322  
 Fringe rate (Hz) 0.007399  
 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  
 2020:202:210519  
 2020:014:135814  
 RA & Dec (J2000)  
 08h54m48.874928s  
 +20°06'30.640850"

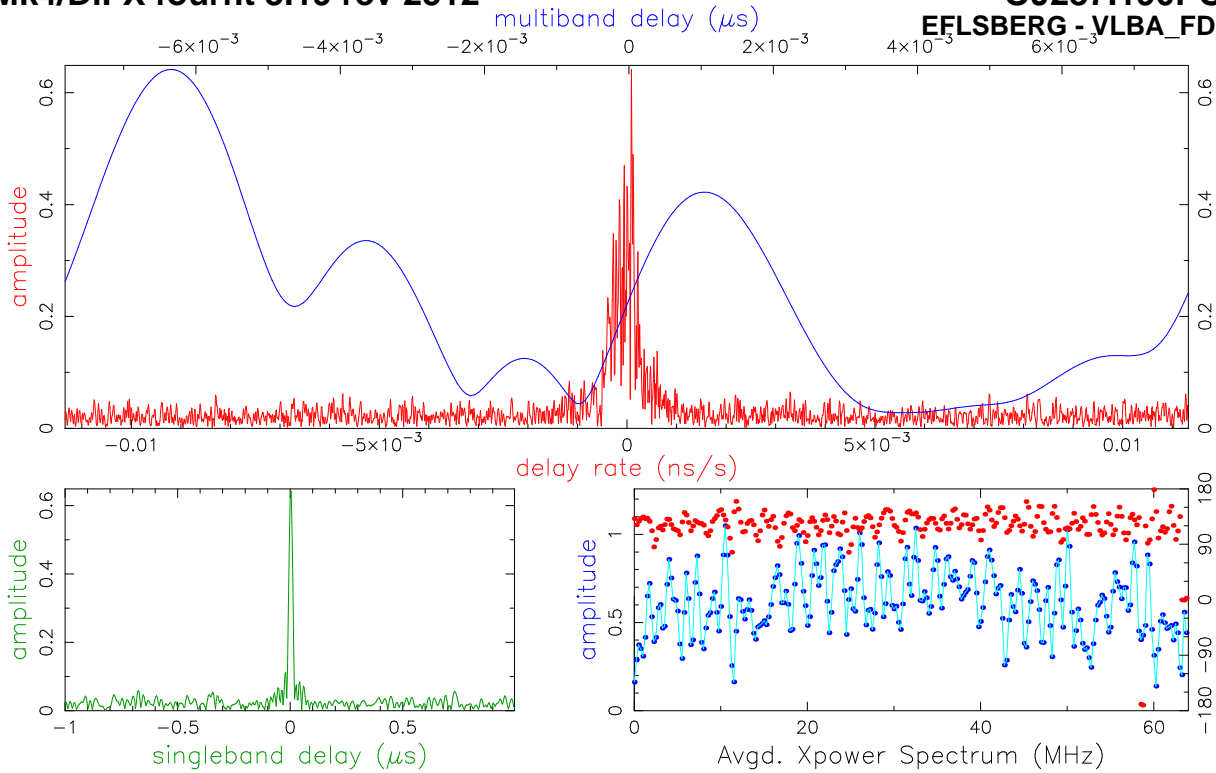
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:f	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		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	158.3	172.7	124.7	178.9	88.5	160.4	123.9	-127.1		
Sband delay (usec)	1.1	1.2	0.9	1.0	1.1	0.9	1.0	0.9		
Phase delay (usec)	256.3	256.8	257.0	256.9	257.3	257.0	257.3	257.6		
Delay rate (us/s)										
Total phase (deg)			148.1							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

RMS Theor. Amplitude 0.815 +/- 0.018  
 ph/seg (deg) 70.9 5.9 Search (2048X32) 0.783  
 amp/seg (%) 91.8 10.3 Interp. 0.000  
 ph/frq (deg) 47.2 3.5 Inc. seg. avg. 1.407  
 amp/frq (%) 28.6 6.1 Inc. frq. avg. 1.024

B: az 239.9 el 46.7 pa 35.9 f: az 80.8 el 25.4 pa -64.7 u,v (fr/asec) 10839.565 1523.381 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/Bf..190POF Output file: /Exps/c201c/v1/1234/No0032/Bf.W.23.190POF

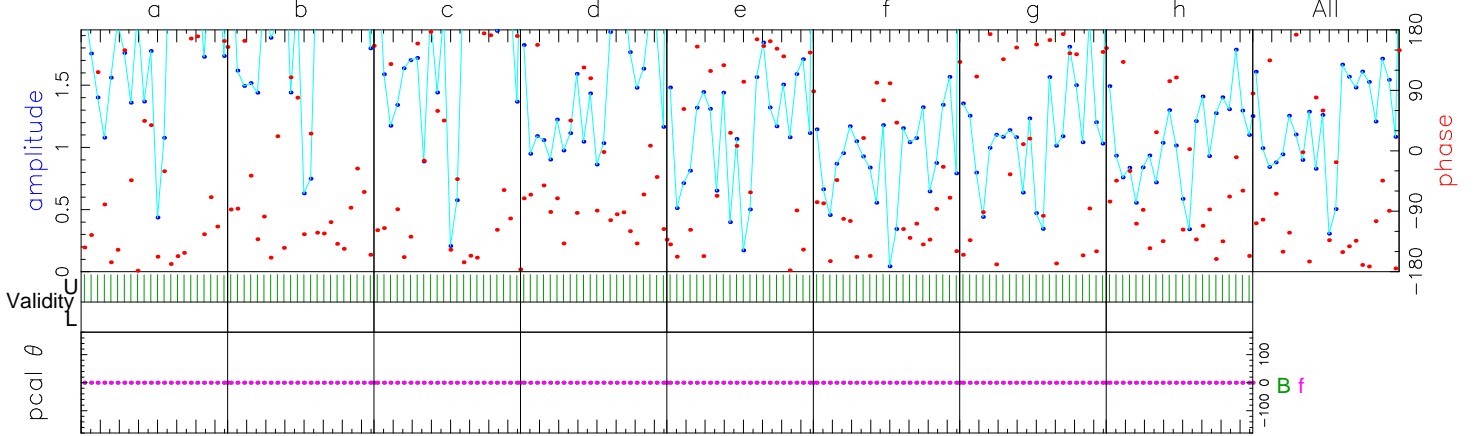


Fringe quality 3

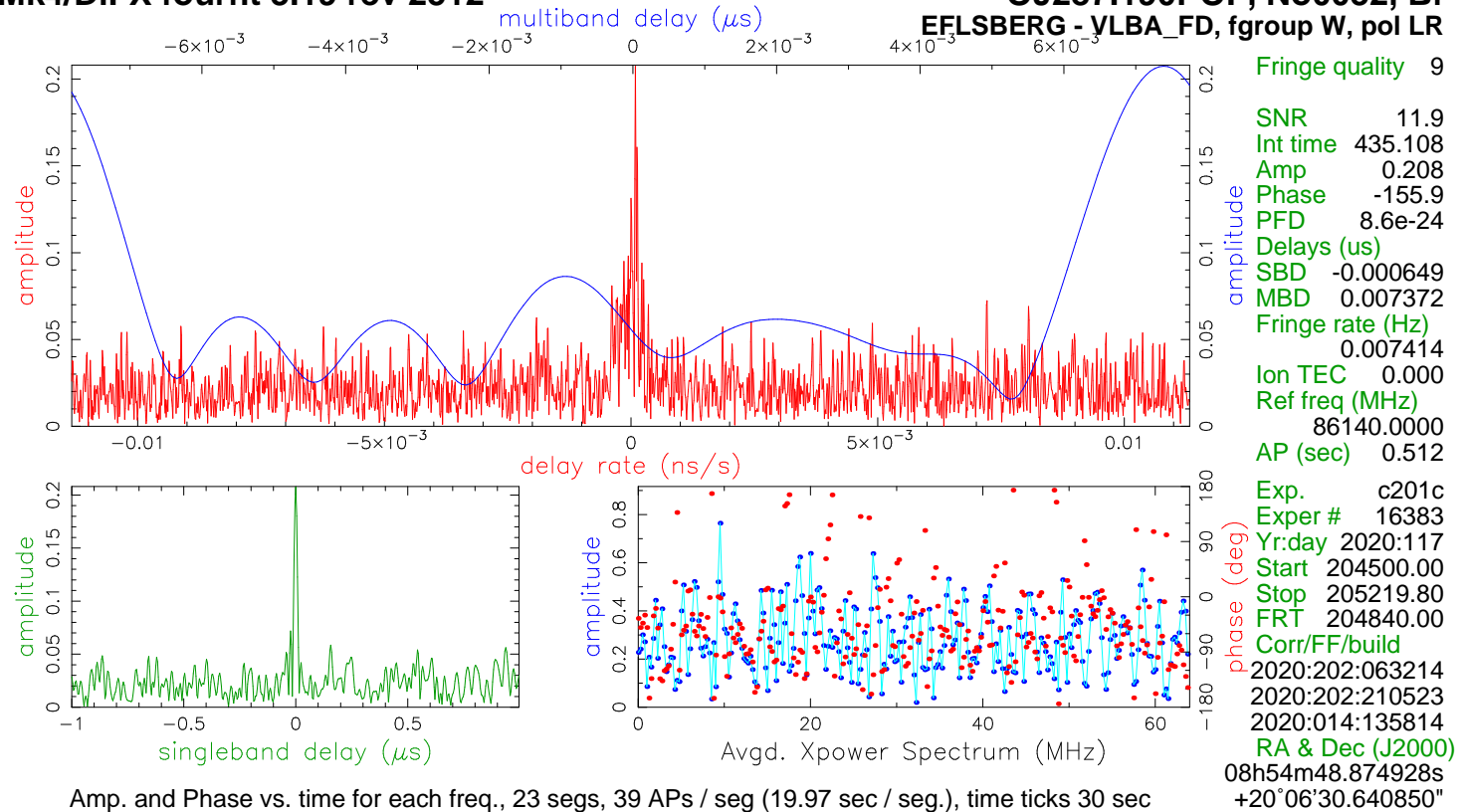
SNR 37.0  
Int time 435.108  
Amp 0.649  
Phase -133.6  
PFD 0.0e+00  
Delays (us)  
SBD 0.002506  
MBD -0.006382  
Fringe rate (Hz) 0.007417  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

Exp. c201c  
Exper # 16383  
Yr:day 2020:117  
Start 204500.00  
Stop 205219.80  
FRT 204840.00  
Corr/FF/build 2020:202:063214  
2020:202:210516  
2020:014:135814  
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

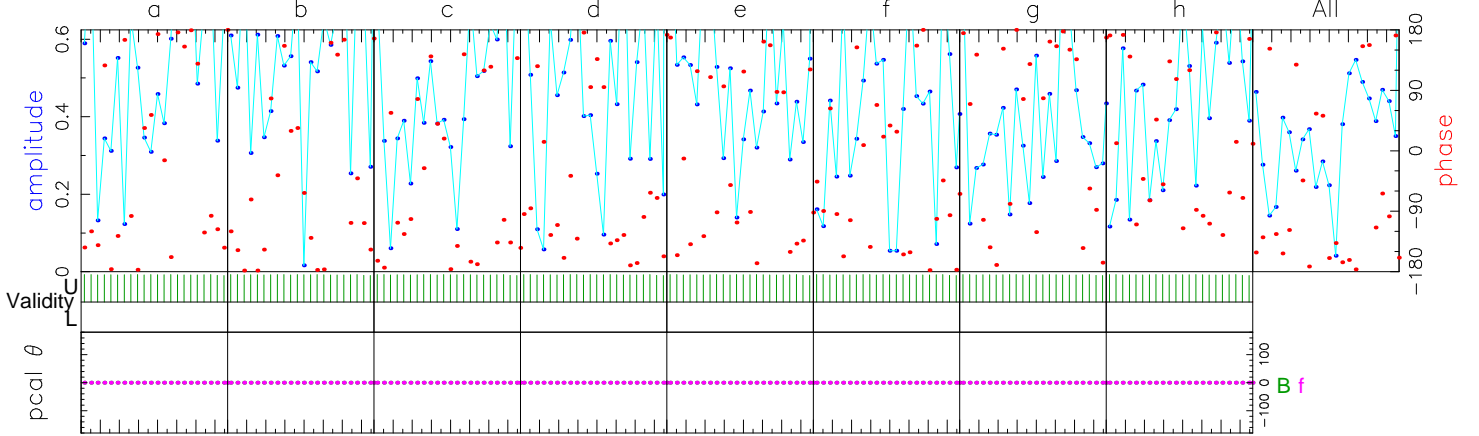
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



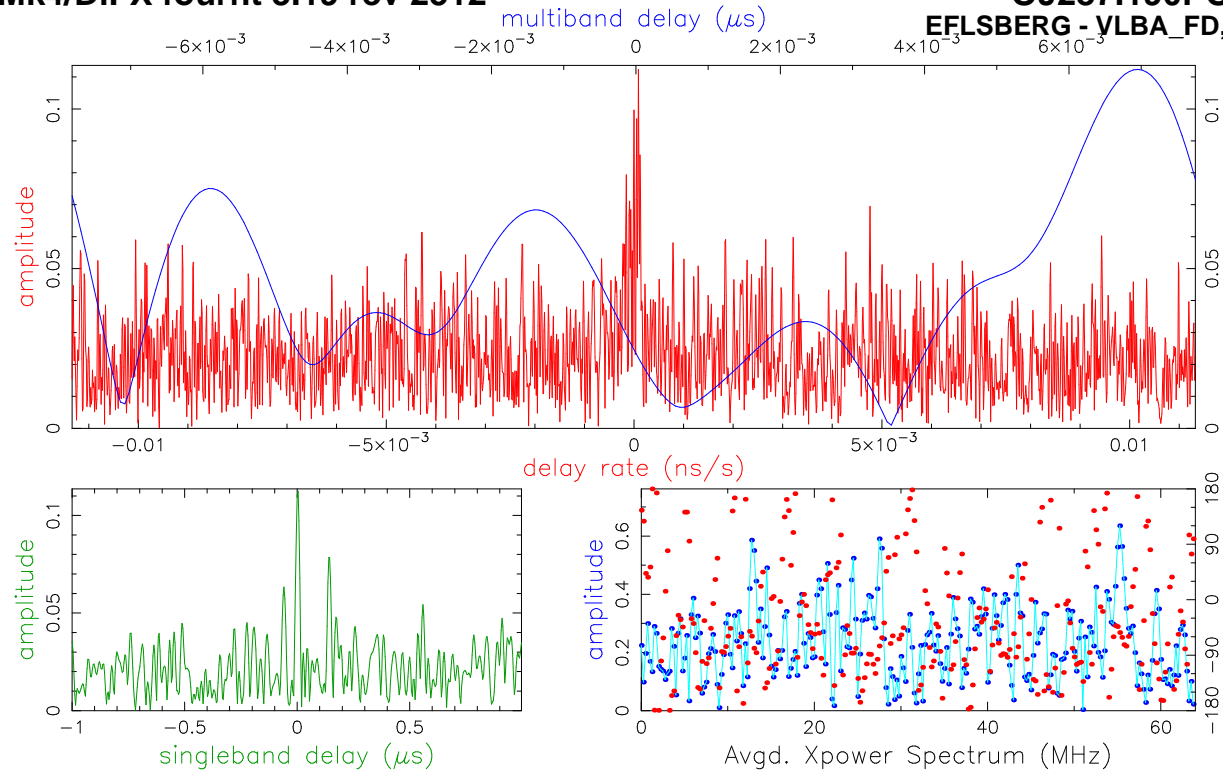
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	5.85901866939E+03	5.8590193186E+03	5.85900942205E+03	5.85900942636E+03	5.85900942636E+03	5.85900942636E+03	5.85900942636E+03	5.85900942636E+03		
Sband delay (usec)	5.8590193186E+03	5.8590193186E+03	5.85900942205E+03	5.85900942636E+03	5.85900942636E+03	5.85900942636E+03	5.85900942636E+03	5.85900942636E+03		
Phase delay (usec)	5.85900942205E+03	5.85900942205E+03	5.85900942205E+03	5.85900942205E+03	5.85900942205E+03	5.85900942205E+03	5.85900942205E+03	5.85900942205E+03		
Delay rate (us/s)	-1.78463865802E+00	-1.78463865802E+00	-1.78463865802E+00	-1.78463874413E+00	-1.78463874413E+00	-1.78463874413E+00	-1.78463874413E+00	-1.78463874413E+00		
Total phase (deg)		221.6	221.6	221.6	221.6	221.6	221.6	221.6		
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
Amplitude	0.649 +/- 0.018									
Search (2048X32)	0.629									
Interp.	0.000									
Inc. seg. avg.	1.179									
Inc. frq. avg.	0.771									
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
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								
pcal $\theta$										
Tracks										
Chan ids										
Tracks										
Chan ids										
Tracks										
u,v (fr/asec)	10839.565	1523.381								
simultaneous interpolator										



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

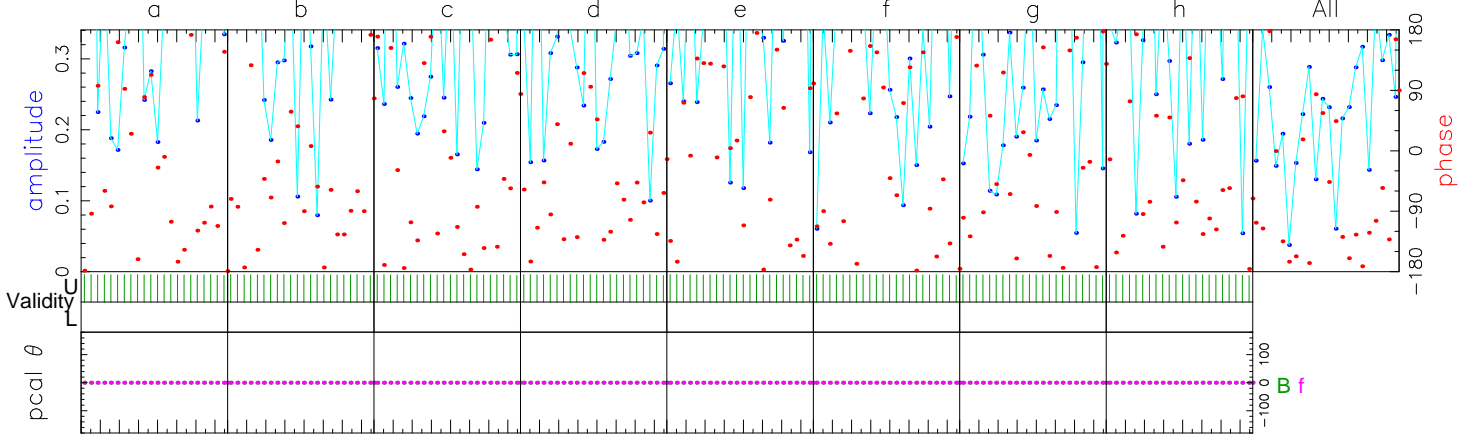


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	5.85900117329E+03				5.85900942636E+03				7.37193E-03	+/- 9.1E-05
Sband delay (usec)	5.85900877761E+03				9.1324768E+00				-6.48750E-04	+/- 7.3E-04
Phase delay (usec)	5.85900942133E+03				-3.0900000E-07				-5.02618E-06	+/- 3.1E-07
Delay rate (us/s)	-1.78463865806E+00				-1.78463874413E+00				8.60692E-08	+/- 1.2E-09
Total phase (deg)			199.3		-2.09693946267E-05				-155.9	+/- 9.7
RMS	64.0	23.2								
ph/seg (deg)	64.0	23.2								
amp/seg (%)	90.2	40.4								
ph/frq (deg)	28.4	13.7								
amp/frq (%)	35.9	23.8								
pcal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5							
pcal rate:	0.000E+00, 0.000E+00 (us/s)		sb window (us) -1.000 1.000							
Bits/sample:	2x2		SampCntNorm: enabled							
Sample rate (MSamp/s):	128		dr window (ns/s) -0.011 0.011							
Data rate (Mb/s):	2048		ion window (TEC) 0.00 0.00							
nlags:	256		t_cohere infinite							

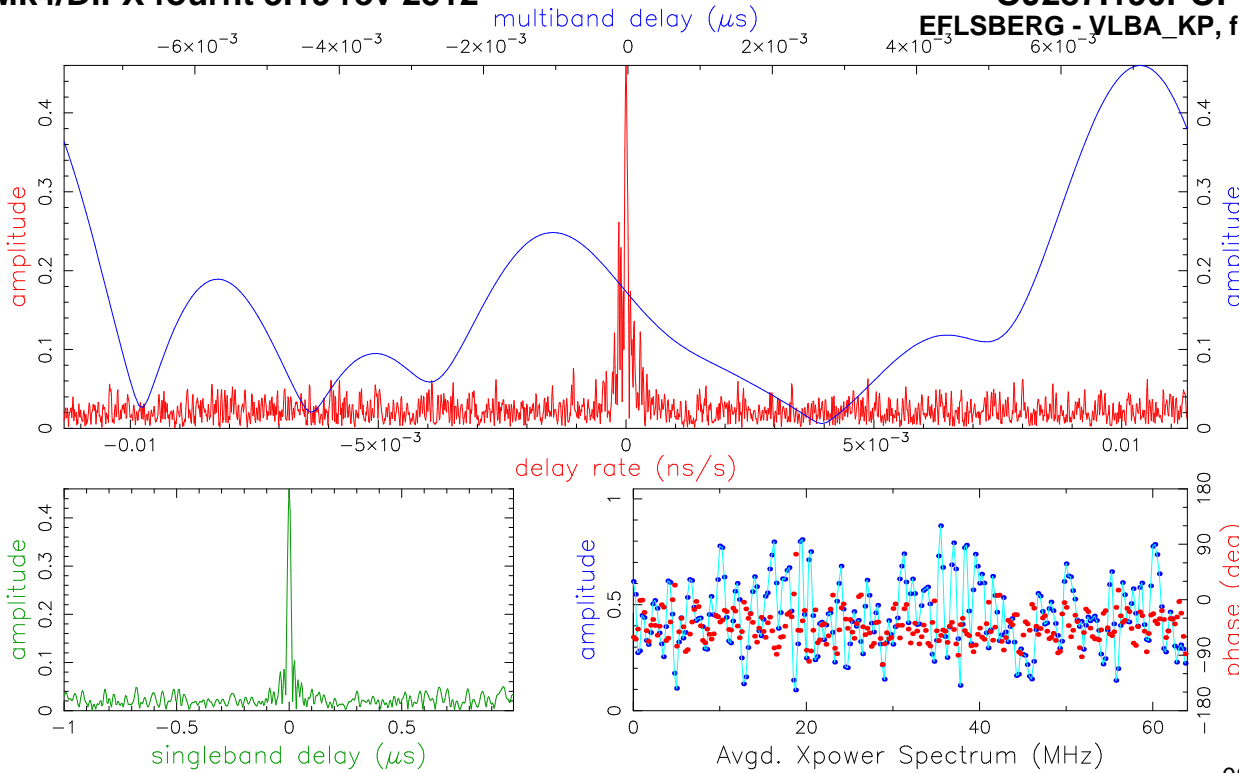


Fringe quality 0  
SNR 6.5  
Int time 435.108  
Amp 0.114  
Phase -130.5  
PFD 2.5e-02  
Delays (us)  
SBD 0.002439  
MBD 0.006966  
Fringe rate (Hz)  
0.007563  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c201c  
Exper # 16383  
Yr:day 2020:117  
Start 204500.00  
Stop 205219.80  
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

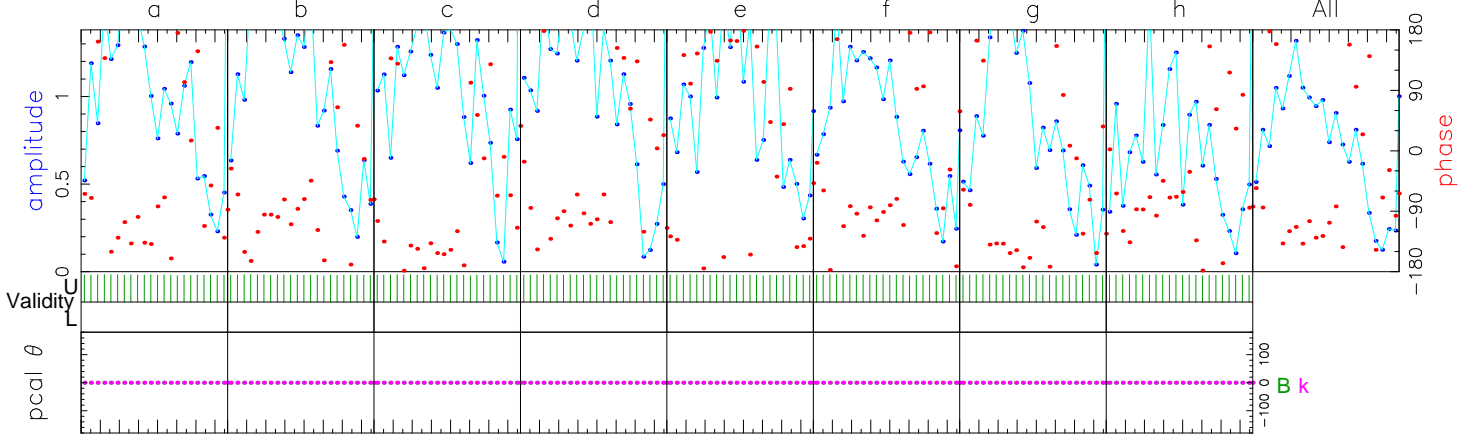


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	-133.6	-100.4	-157.9	-83.6	154.5	-172.7	-150.9	-87.1	Phase	-130.5	
	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1	
	257.4	258.2	293.8	286.3	346.5	63.8	157.7	393.3	Sbd box	257.6	
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used		
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
B:f	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		
f	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks		
									Tracks		
Group delay (usec)(sbd)	5.85901639245E+03		Apriori delay (usec)		5.85900942636E+03		Resid mbdelay (usec)		6.96609E-03	+/- 1.7E-04	
Sband delay (usec)	5.85901186486E+03		Apriori clock (usec)		9.1324768E+00		Resid sbdelay (usec)		2.43850E-03	+/- 1.3E-03	
Phase delay (usec)	5.85900942215E+03		Apriori clockrate (us/s)		-3.0900000E-07		Resid phdelay (usec)		-4.20986E-06	+/- 5.7E-07	
Delay rate (us/s)	-1.78463865633E+00		Apriori rate (us/s)		-1.78463874413E+00		Resid rate (us/s)		8.78002E-08	+/- 2.2E-09	
Total phase (deg)	224.7		Apriori accel (us/s/s)		-2.09693946267E-05		Resid phase (deg)		-130.5	+/- 17.7	
	RMS	Theor.	Amplitude	0.114 +/- 0.018		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	82.0	42.4	Search (2048X32)	0.111		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000	
amp/seg (%)	125.9	74.0	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	47.5	25.0	Inc. seg. avg.	0.176		Sample rate(MISamp/s): 128		Data rate(Mb/s): 2048		dr window (ns/s)	-0.011 0.011
amp/frq (%)	40.8	43.6	Inc. frq. avg.	0.132		nlags: 256		t_cohere infinite		ion window (TEC)	0.00 0.00



Fringe quality 6  
 SNR 26.1  
 Int time 431.359  
 Amp 0.460  
 Phase -128.4  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.000118  
 MBD 0.007092  
 Fringe rate (Hz)  
 -0.000354  
 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  
 2020:202:210516  
 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

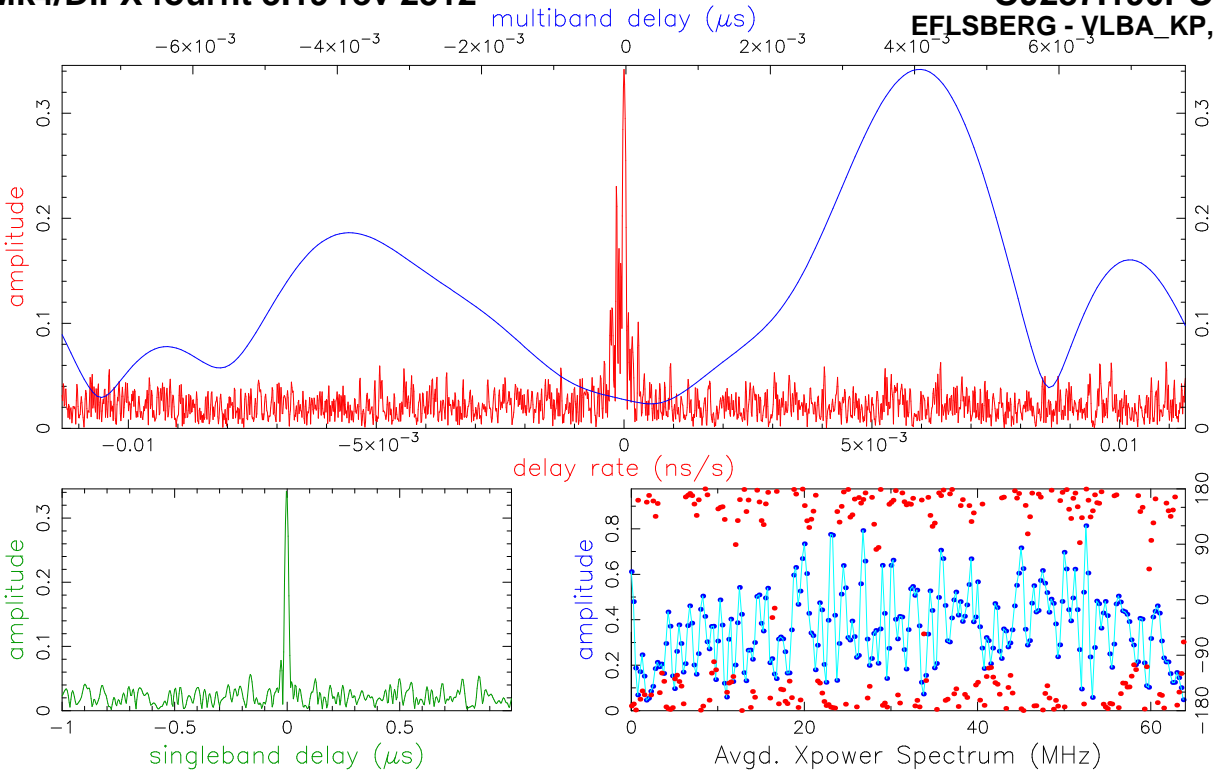


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
Group delay (usec)(sbd)	-130.2	-100.1	-153.7	-107.4	168.3	-109.3	-149.1	-83.0		-128.4
Sband delay (usec)	0.5	0.7	0.6	0.6	0.5	0.5	0.6	0.4		0.5
Phase delay (usec)	257.0	257.3	257.5	257.5	257.9	257.4	257.4	257.8		257.0
Delay rate (us/s)	U/L 859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
Total phase (deg)	B 1000	1000	1000	1000	1000	1000	1000	1000		
	k 1000	1000	1000	1000	1000	1000	1000	1000		
	B:k 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
	B:k 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		
	k 1000	1000	1000	1000	1000	1000	1000	1000		
	B W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
	k W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
	Apriori delay (usec) 7.98541769988E+03 Apriori clock (usec) 0.445 Apriori clockrate (us/s) -2.0540000E-07 Apriori rate (us/s) -1.81311992171E+00 Apriori accel (us/s/s) -3.30150540326E-05									
	Resid mbdelay (usec) 7.09234E-03 Resid sbdelay (usec) -1.17750E-04 Resid phdelay (usec) -4.13964E-06 Resid rate (us/s) -4.11459E-09 Resid phase (deg) -128.4									

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

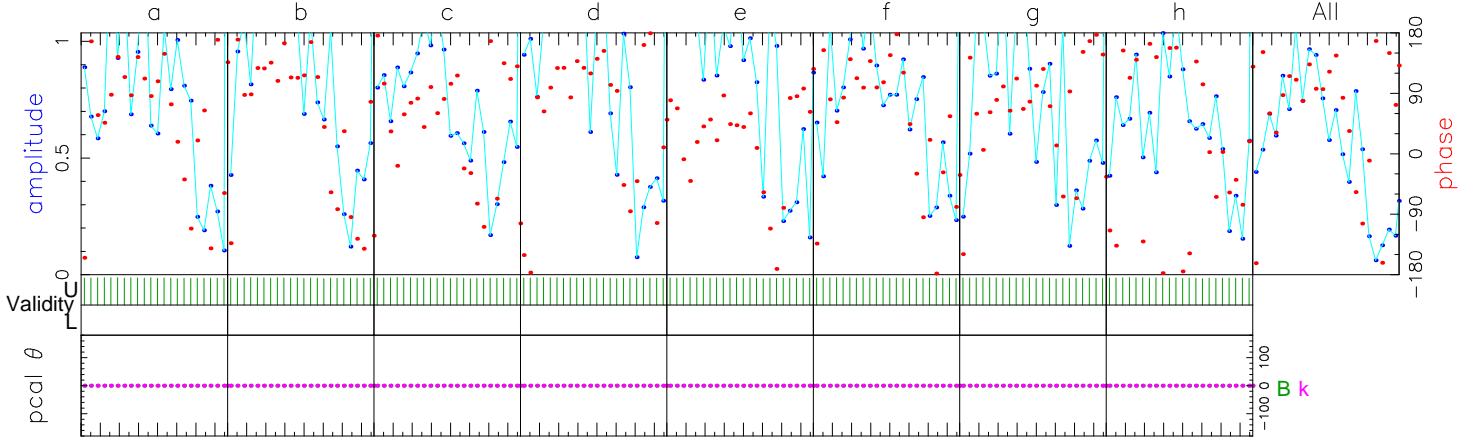
B: az 239.9 el 46.7 pa 35.9 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 10993.407 1013.369 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/Bk..190POF Output file: /Exps/c201c/v1/1234/No0032/Bk.W.2.190POF



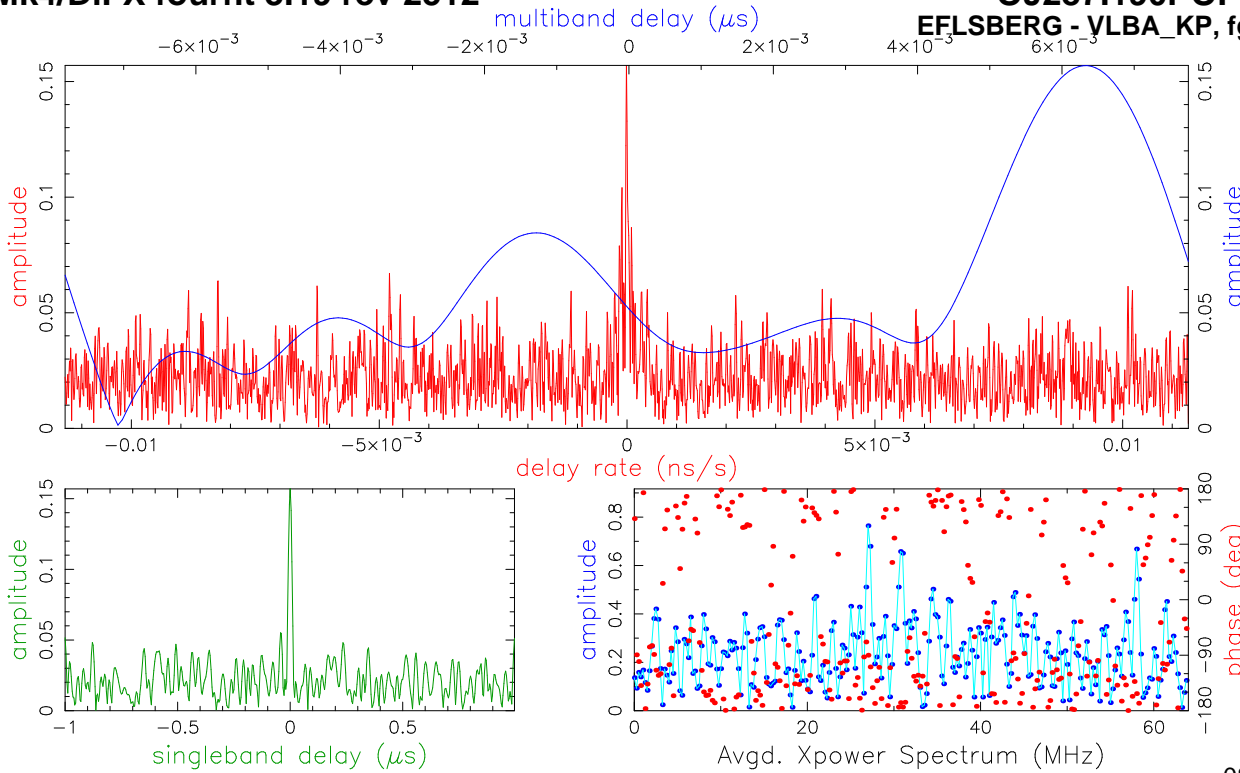
Fringe quality 8  
SNR 19.6  
Int time 431.360  
Amp 0.346  
Phase 103.3  
PFD 0.0e+00  
Delays (us)  
SBD -0.002505  
MBD 0.004092  
Fringe rate (Hz)  
-0.000211  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c201c  
Exper # 16383  
Yr:day 2020:117  
Start 204500.00  
Stop 205219.80  
FRT 204840.00  
Corr/FF/build  
2020:202:063214  
2020:202:210519  
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



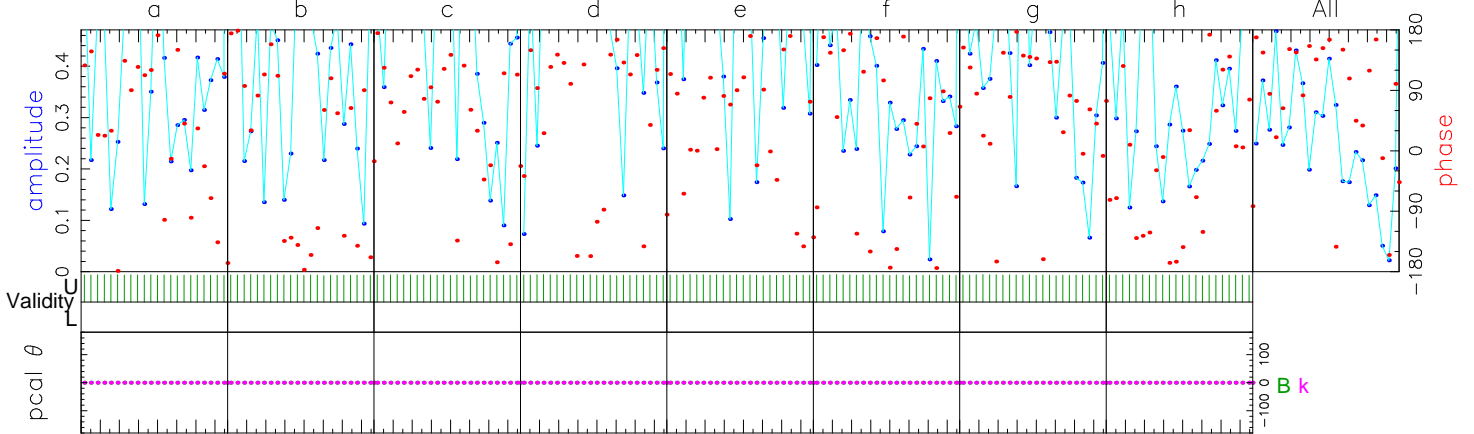
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	7.98541469947E+03		Apriori delay (usec)		7.98541060754E+03		Resid mbdelay (usec)		4.09194E-03	+/- 5.5E-05
Sband delay (usec)	7.98540810229E+03		Apriori clock (usec)		1.3383428E+01		Resid sbdelay (usec)		-2.50525E-03	+/- 4.4E-04
Phase delay (usec)	7.98541061087E+03		Apriori clockrate (us/s)		-2.0540000E-07		Resid phdelay (usec)		3.32984E-06	+/- 1.9E-07
Delay rate (us/s)	-1.81311992416E+00		Apriori rate (us/s)		-1.81311992171E+00		Resid rate (us/s)		-2.45373E-09	+/- 7.4E-10
Total phase (deg)	7.2		Apriori accel (us/s/s)		-3.30150540326E-05		Resid phase (deg)		103.3	+/- 5.8

ph/seg (deg) 69.2 14.0 RMS Theor. Amplitude 0.346 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 104.5 24.4 Search (2048X32) 0.338 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 43.3 8.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 32.2 14.4 Inc. seg. avg. 0.554 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 B: az 239.9 el 46.7 pa 35.9 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 10993.407 1013.369 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/Bk..190POF Output file: /Exps/c201c/v1/1234/No0032/Bk.W.22.190POF simultaneous interpolator



Fringe quality 9  
 SNR 8.9  
 Int time 431.360  
 Amp 0.157  
 Phase 124.0  
 PFD 1.9e-10  
 Delays (us)  
 SBD -0.000329  
 MBD 0.006316  
 Fringe rate (Hz)  
 -0.001290  
 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

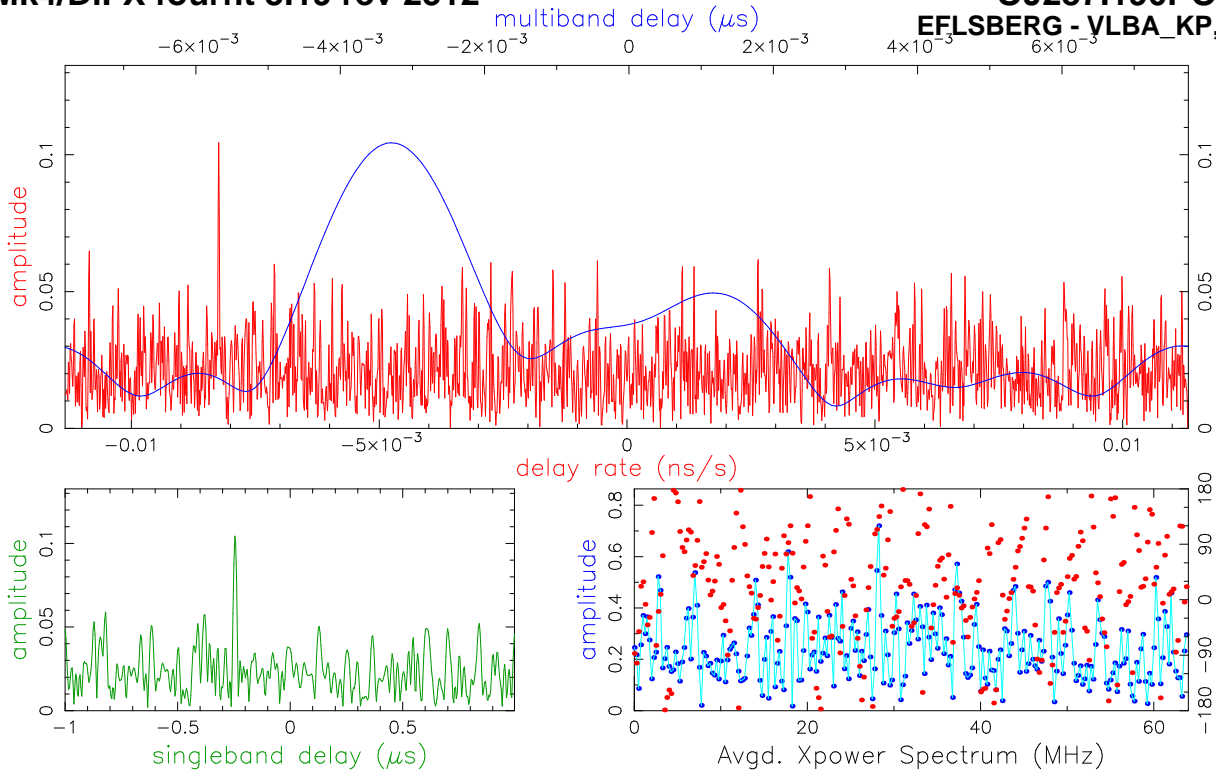


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	7.98541692382E+03		Apriori delay (usec)		7.98541060754E+03		Resid mbdelay (usec)		6.31629E-03	+/- 1.2E-04
Sband delay (usec)	7.98541027829E+03		Apriori clock (usec)		1.3383428E+01		Resid sbdelay (usec)		-3.29250E-04	+/- 9.7E-04
Phase delay (usec)	7.98541061153E+03		Apriori clockrate (us/s)		-2.0540000E-07		Resid phdelay (usec)		3.99748E-06	+/- 4.1E-07
Delay rate (us/s)	-1.81311993669E+00		Apriori rate (us/s)		-1.81311992171E+00		Resid rate (us/s)		-1.49789E-08	+/- 1.6E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.30150540326E-05		Resid phase (deg)		124.0	+/- 12.9

ph/seg (deg) 58.9 30.8 Search (2048X32) 0.153 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 96.0 53.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 48.7 18.2 Inc. seg. avg. 0.223 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 52.8 31.7 Inc. frq. avg. 0.175 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 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 10993.407 1013.369 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/Bk..190POF Output file: /Exps/c201c/v1/1234/No0032/Bk.W.36.190POF

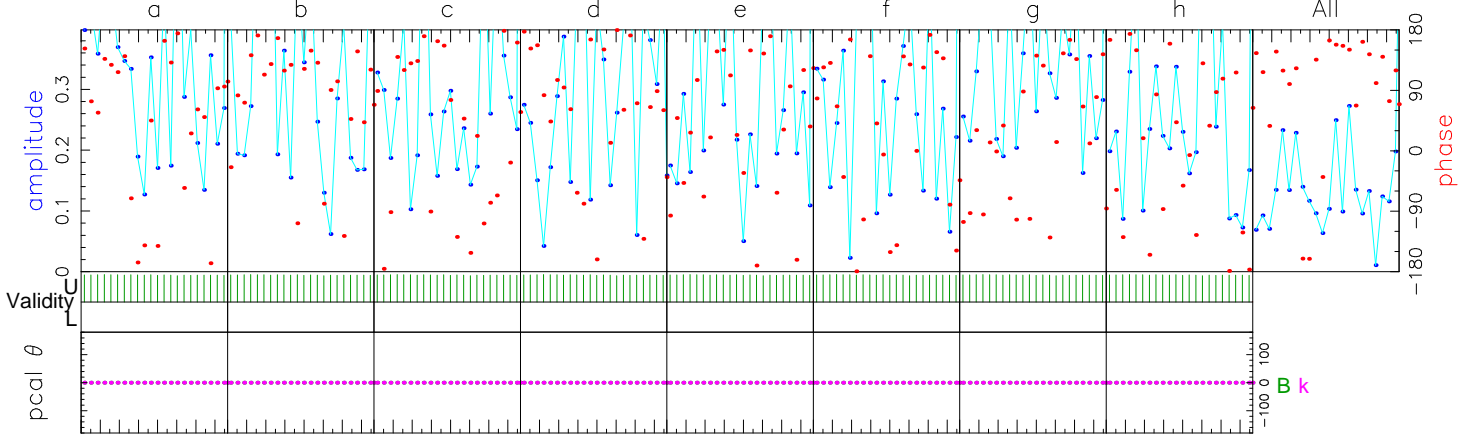
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, Bk  
EFLSBERG - VLBA\_KP, fgroup W, pol RL



Fringe quality 0  
SNR 6.0  
Int time 431.359  
Amp 0.133  
Phase 135.3  
PFD 4.1e-01  
Delays (us)  
SBD -0.244754  
MBD -0.003262  
Fringe rate (Hz)  
-0.711002  
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

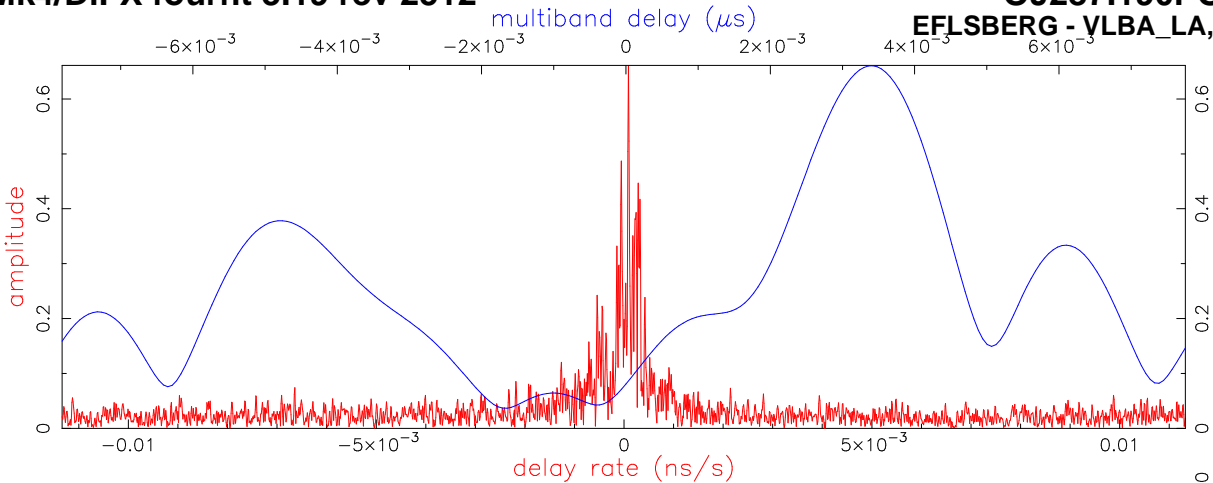


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	126.4	134.2	-177.9	131.5	114.3	150.9	137.4	122.2	Phase	135.3
	0.2	0.2	0.1	0.1	0.2	0.1	0.0	0.1	Ampl.	0.1
	31.7	194.2	476.0	269.0	206.3	154.1	1.5	389.8	Sbd box	194.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	7.98517297086E+03		Apriori delay (usec)		7.98541060754E+03		Resid mbdelay (usec)		-3.26167E-03	+/- 1.8E-04
Sband delay (usec)	7.98516585329E+03		Apriori clock (usec)		1.3383428E+01		Resid sbdelay (usec)		-2.44754E-01	+/- 1.4E-03
Phase delay (usec)	7.98541061190E+03		Apriori clockrate (us/s)		-2.0540000E-07		Resid phdelay (usec)		4.36208E-06	+/- 6.2E-07
Delay rate (us/s)	-1.81312817574E+00		Apriori rate (us/s)		-1.81311992171E+00		Resid rate (us/s)		-8.25403E-06	+/- 2.4E-09
Total phase (deg)	39.2		Apriori accel (us/s/s)		-3.30150540326E-05		Resid phase (deg)		135.3	+/- 19.1

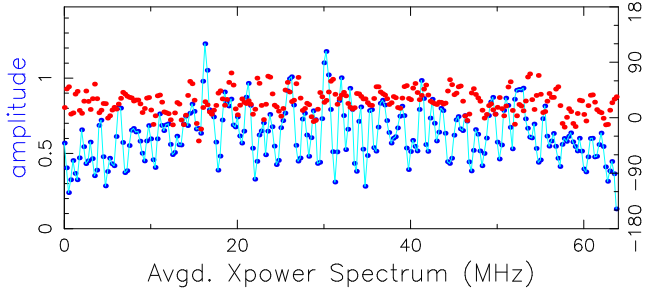
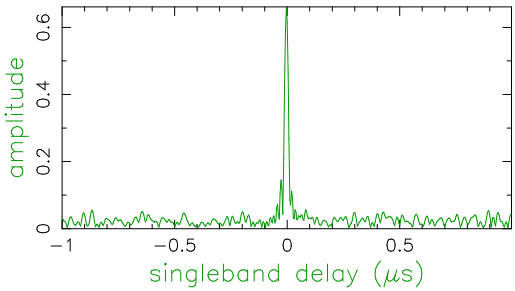
ph/seg (deg) 53.8 45.8 Amplitude 0.133 +/- 0.022 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 67.2 80.0 Search (2048X32) 0.097 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 22.9 27.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 47.6 47.2 Inc. seg. avg. 0.126 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

B: az 239.9 el 46.7 pa 35.9 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 10993.407 1013.369 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/Bk..190POF Output file: /Exps/c201c/v1/1234/No0032/Bk.W.53.190POF

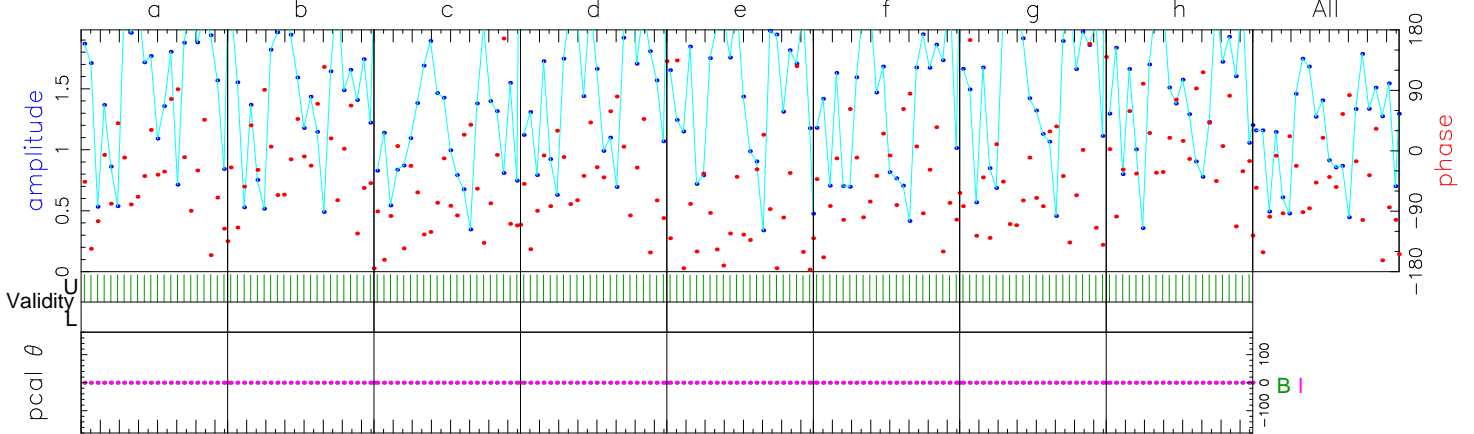




Fringe quality 4  
 SNR 37.7  
 Int time 433.766  
 Amp 0.661  
 Phase -54.1  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.003480  
 MBD 0.003413  
 Fringe rate (Hz) 0.007464  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512  
 Exp. c201c  
 Exper # 16383  
 Yr:day 2020:117  
 Start 204500.00  
 Stop 205219.80  
 FRT 204840.00  
 Corr/FF/build  
 2020:202:063214  
 2020:202:210522  
 2020:014:135814  
 RA & Dec (J2000)  
 08h54m48.874928s  
 +20°06'30.640850"

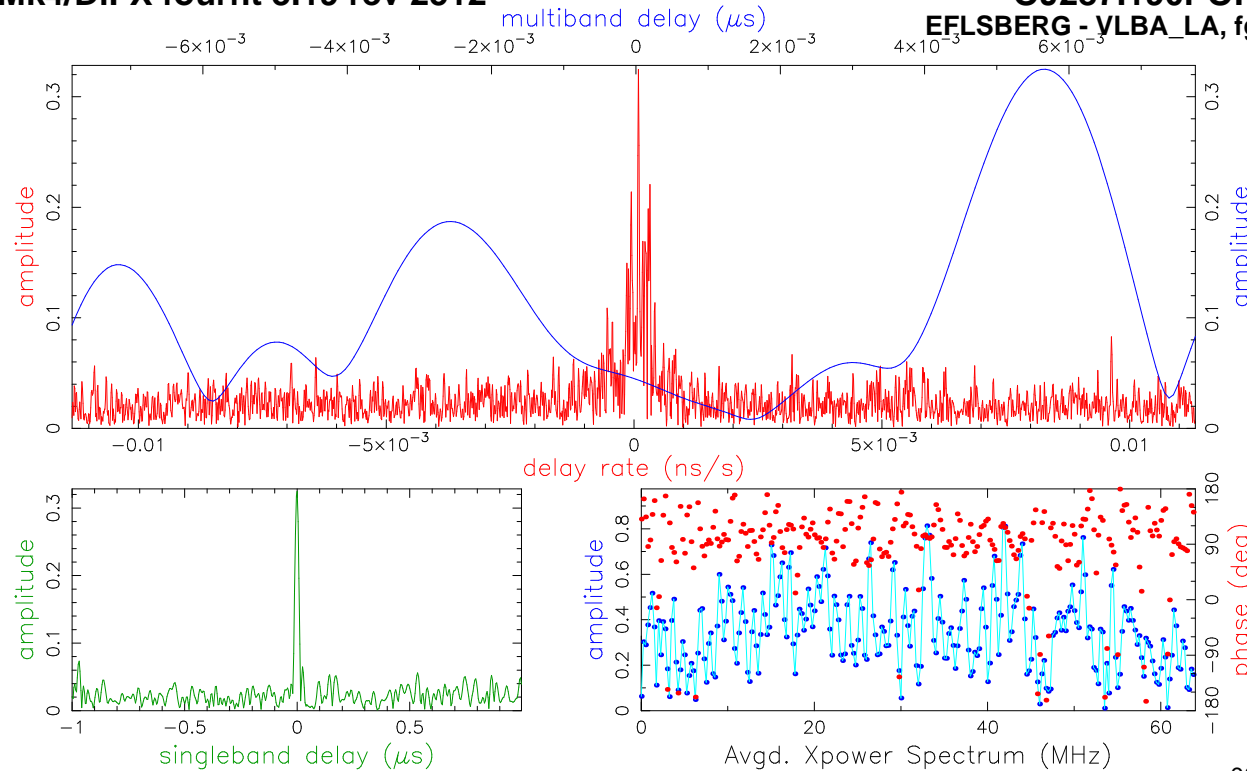


Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-41.0	-22.6	-87.5	-40.5	-124.5	-50.1	-82.1	-1.6	Phase	-54.1
	0.8	0.9	0.7	0.8	0.9	0.7	0.9	0.9	Ampl.	0.8
	255.9	255.9	256.2	256.8	256.7	256.8	257.0	256.8	Sbd box	256.1
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	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:I	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	
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.26713026593E+03		Apriori delay (usec)		6.26712685272E+03		Resid mbdelay (usec)		3.41321E-03	+/- 2.9E-05
Sband delay (usec)	6.26712337297E+03		Apriori clock (usec)		1.6756037E+01		Resid sbdelay (usec)		-3.47975E-03	+/- 2.3E-04
Phase delay (usec)	6.26712685097E+03		Apriori clockrate (us/s)		-4.8999999E-08		Resid phdelay (usec)		-1.74617E-06	+/- 9.8E-08
Delay rate (us/s)	-1.73246982777E+00		Apriori rate (us/s)		-1.73246991442E+00		Resid rate (us/s)		8.66481E-08	+/- 3.9E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.59981020920E-05		Resid phase (deg)		-54.1	+/- 3.0

ph/seg (deg) 63.1 7.3 Search (2048X32) 0.653 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 95.7 12.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 42.8 4.3 Inc. seg. avg. 1.135 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 26.2 7.5 Inc. frq. avg. 0.822 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 I: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) 10514.175 756.588 simultaneous interpolator

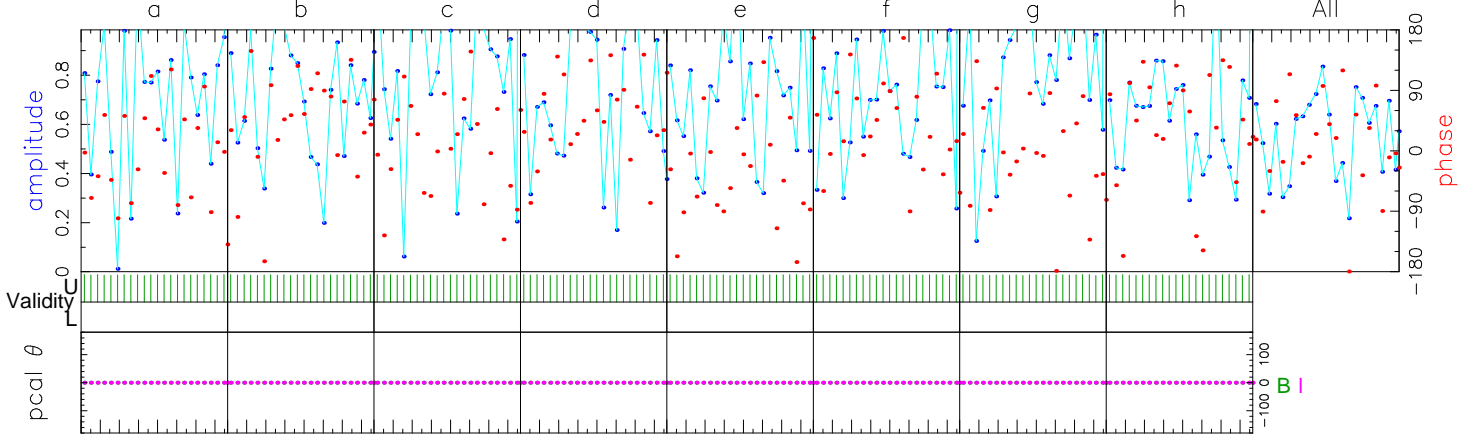


Fringe quality 8

SNR 18.7  
Int time 433.766  
Amp 0.328  
Phase 26.6  
PFD 0.0e+00  
Delays (us)  
SBD -0.001442  
MBD 0.005615  
Fringe rate (Hz) 0.007488  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

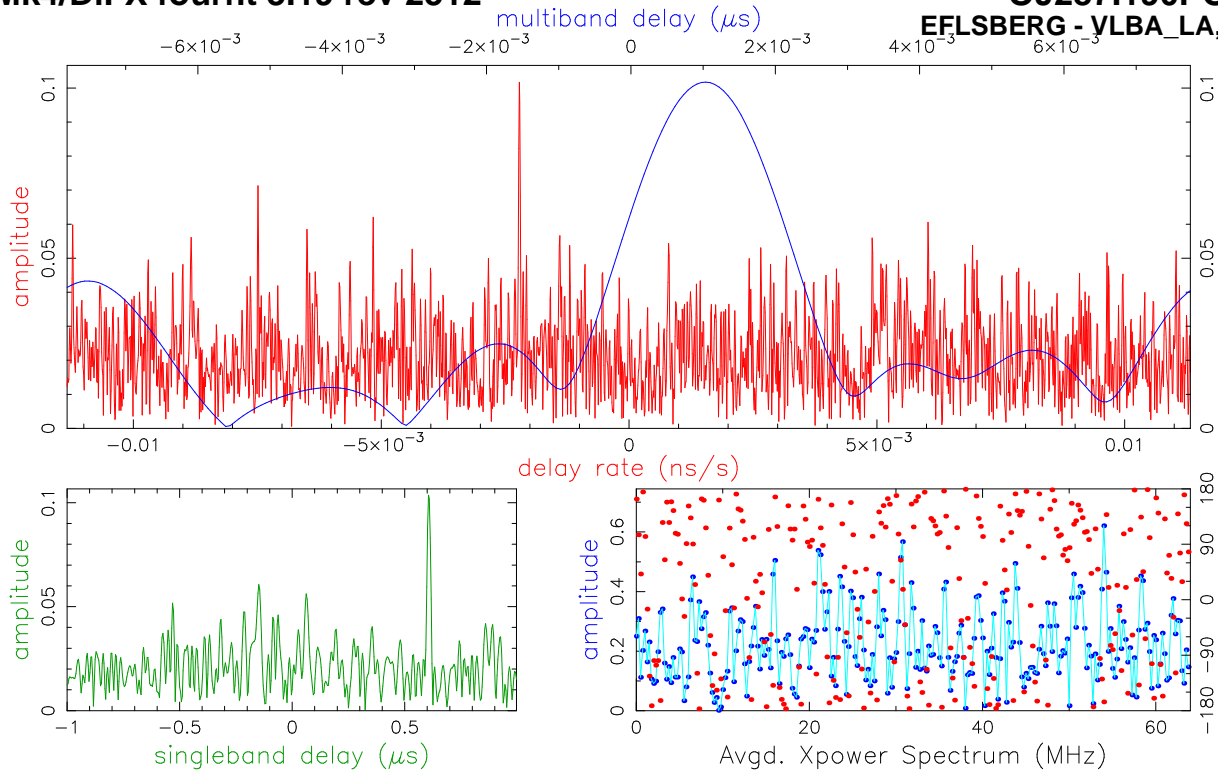
Exp. c201c  
Exper # 16383  
Yr:day 2020:117  
Start 204500.00  
Stop 205219.80  
FRT 204840.00  
Corr/FF/build  
2020:202:063214  
2020:202:210526  
2020:014:135814  
RA & Dec (J2000)  
08h54m48.874928s  
+20°06'30.640850"

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



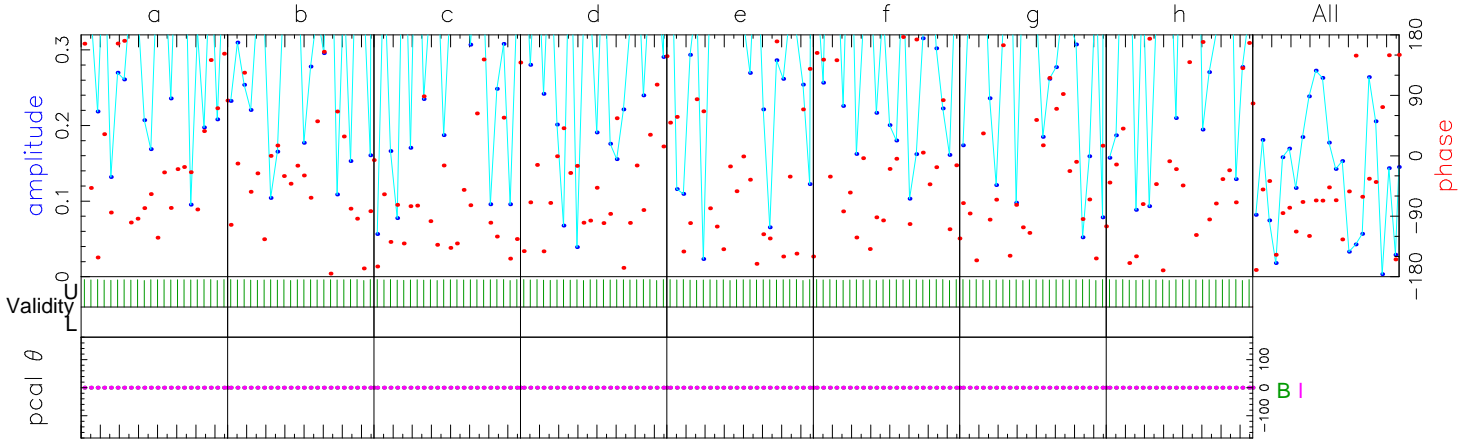
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	6.26713246806E+03		Apriori delay (usec)		6.26712685272E+03		Resid mbdelay (usec)		5.61534E-03	+/- 5.8E-05
Sband delay (usec)	6.26712541047E+03		Apriori clock (usec)		1.6756037E+01		Resid sbdelay (usec)		-1.44225E-03	+/- 4.6E-04
Phase delay (usec)	6.26712685358E+03		Apriori clockrate (us/s)		-4.8999999E-08		Resid phdelay (usec)		8.59180E-07	+/- 2.0E-07
Delay rate (us/s)	-1.73246982749E+00		Apriori rate (us/s)		-1.73246991442E+00		Resid rate (us/s)		8.69259E-08	+/- 7.8E-10
Total phase (deg)	60.2		Apriori accel (us/s/s)		-2.59981020920E-05		Resid phase (deg)		26.6	+/- 6.1

ph/seg (deg) 66.0 14.7 Search (2048X32) 0.315 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 85.8 25.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 39.0 8.7 Inc. seg. avg. 0.537 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 18.8 15.1 Inc. frq. avg. 0.381 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 I: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) 10514.175 756.588 ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/Bl..190POF Output file: /Exps/c201c/v1/1234/No0032/Bl.W.51.190POF simultaneous interpolator



Fringe quality 0  
SNR 6.0  
Int time 433.764  
Amp 0.107  
Phase -75.0  
PFD 4.4e-01  
Delays (us)  
SBD 0.607012  
MBD 0.001072  
Fringe rate (Hz)  
-0.190930  
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  
2020:202:210530  
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

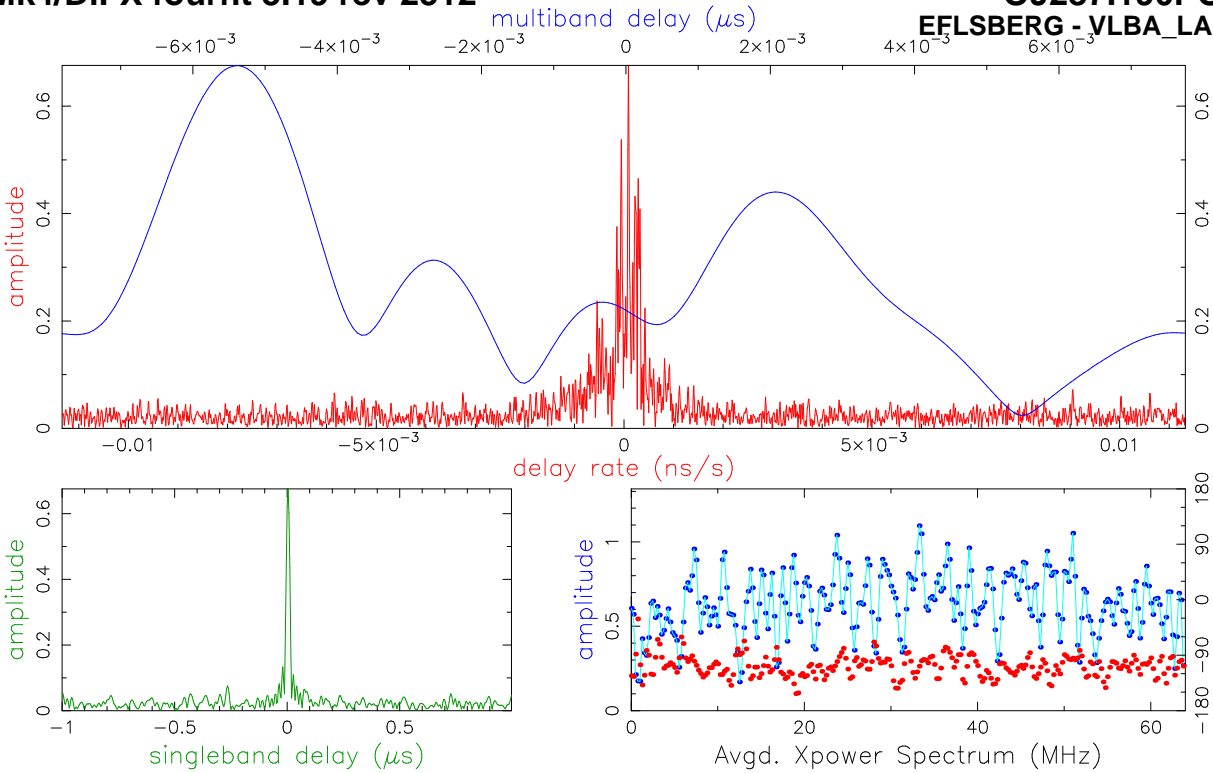


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-75.2	-49.8	-102.7	-59.6	-86.1	-64.1	-99.0	-73.2	Phase	-75.0
	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	Ampl.	0.1
	120.8	354.3	155.5	411.3	345.2	274.9	32.5	465.8	Sbd box	412.4
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:I	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	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	6.26773729990E+03	Apriori delay (usec)	6.26712685272E+03	Resid mbdelay (usec)	1.07218E-03	+/-	1.8E-04
Sband delay (usec)	6.26773386472E+03	Apriori clock (usec)	1.6756037E+01	Resid sbdelay (usec)	6.07012E-01	+/-	1.4E-03
Phase delay (usec)	6.26712685030E+03	Apriori clockrate (us/s)	-4.8999999E-08	Resid phdelay (usec)	-2.42005E-06	+/-	6.2E-07
Delay rate (us/s)	-1.73247213092E+00	Apriori rate (us/s)	-1.73246991442E+00	Resid rate (us/s)	-2.21651E-06	+/-	2.4E-09
Total phase (deg)	-41.5	Apriori accel (us/s/s)	-2.59981020920E-05	Resid phase (deg)	-75.0	+/-	19.2

ph/seg (deg)	64.7	Theor.	46.0	Amplitude	0.107 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	84.3	Search (2048X32)	0.102	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	20.3	Inc. seg. avg.	0.105	Inc. frq. avg.	0.098	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	27.9	Inc. frq. avg.	0.098			Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011 0.011	
						Data rate(Mb/s): 2048	ion window (TEC)	0.00 0.00	

B: az 239.9 el 46.7 pa 35.9 I: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) 10514.175 756.588 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/BI..190POF Output file: /Exps/c201c/v1/1234/No0032/BI.W.68.190POF

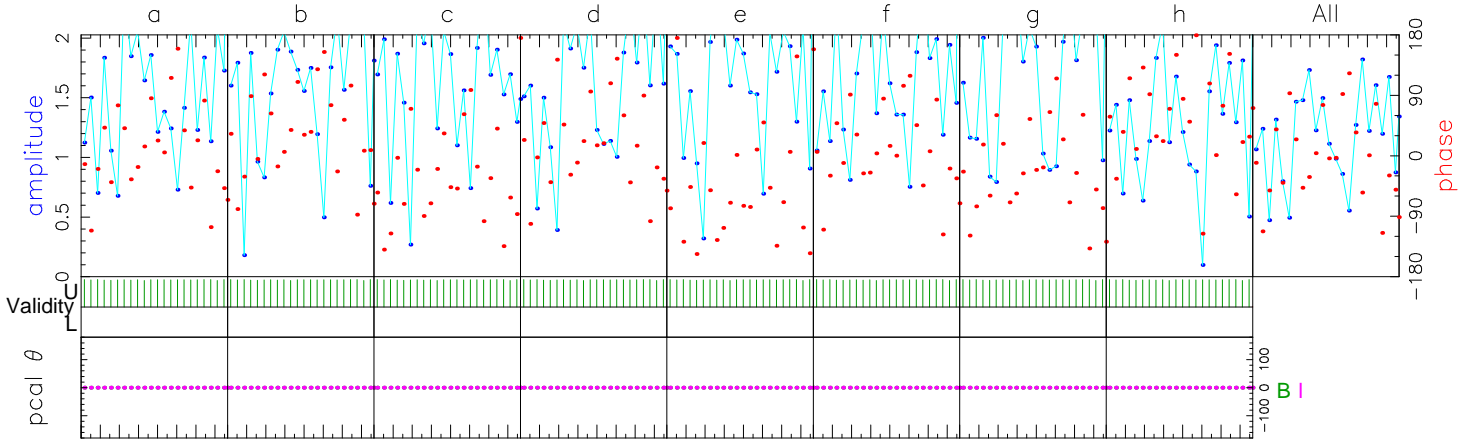


Fringe quality 4

SNR 38.5  
Int time 433.764  
Amp 0.676  
Phase -5.1  
PFD 0.0e+00  
Delays (us)  
SBD 0.003598  
MBD -0.005395  
Fringe rate (Hz) 0.007493  
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"

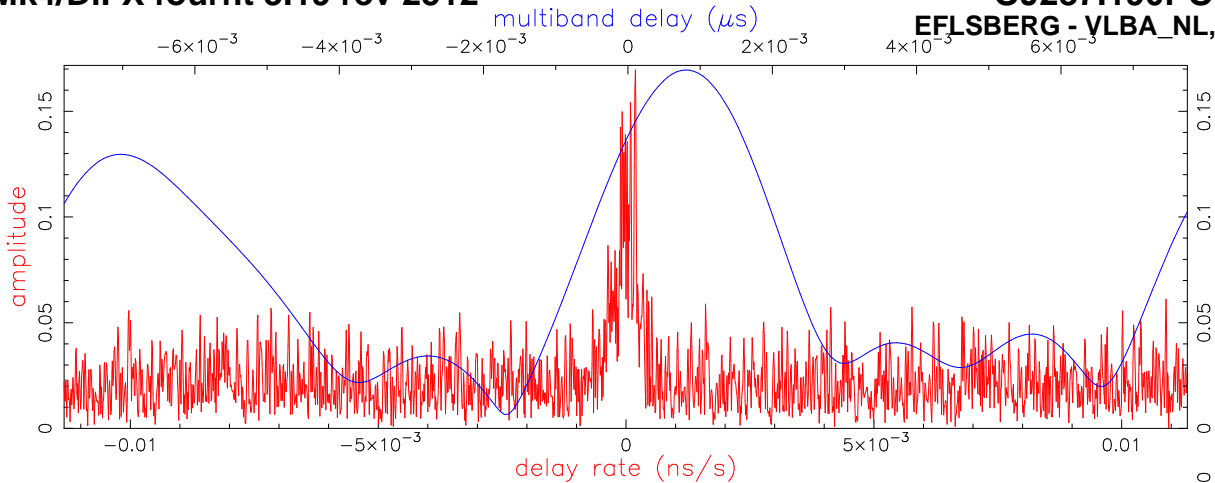
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



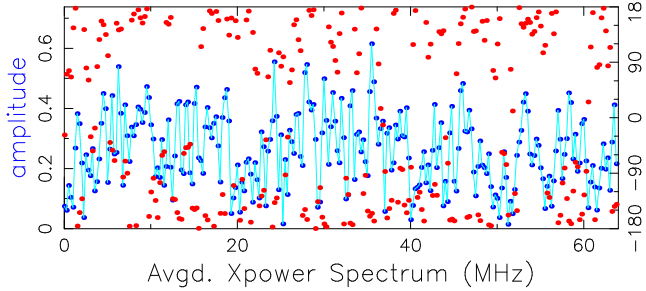
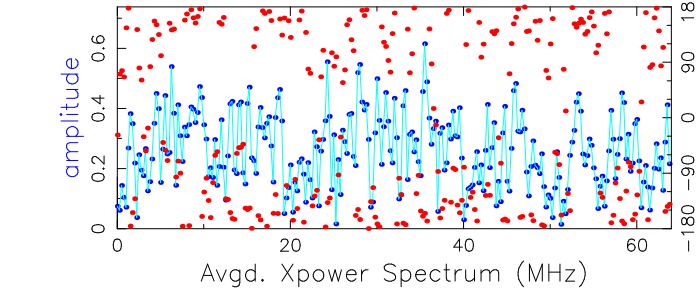
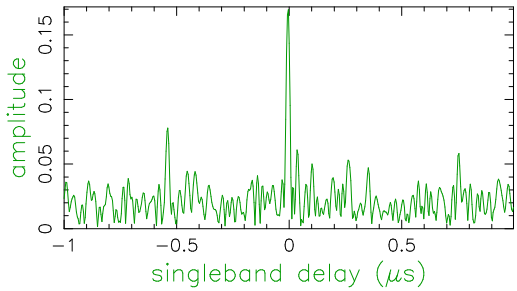
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	6.26713708234E+03	Apriori delay (usec)	6.26712685272E+03	Resid mbdelay (usec)	-5.39538E-03	+/-	2.8E-05
Sband delay (usec)	6.26713045072E+03	Apriori clock (usec)	1.6756037E+01	Resid sbdelay (usec)	3.59800E-03	+/-	2.2E-04
Phase delay (usec)	6.26712685255E+03	Apriori clockrate (us/s)	-4.8999999E-08	Resid phdelay (usec)	-1.65186E-07	+/-	9.6E-08
Delay rate (us/s)	-1.73246982742E+00	Apriori rate (us/s)	-1.73246991442E+00	Resid rate (us/s)	8.69917E-08	+/-	3.8E-10
Total phase (deg)	28.4	Apriori accel (us/s/s)	-2.59981020920E-05	Resid phase (deg)	-5.1	+/-	3.0

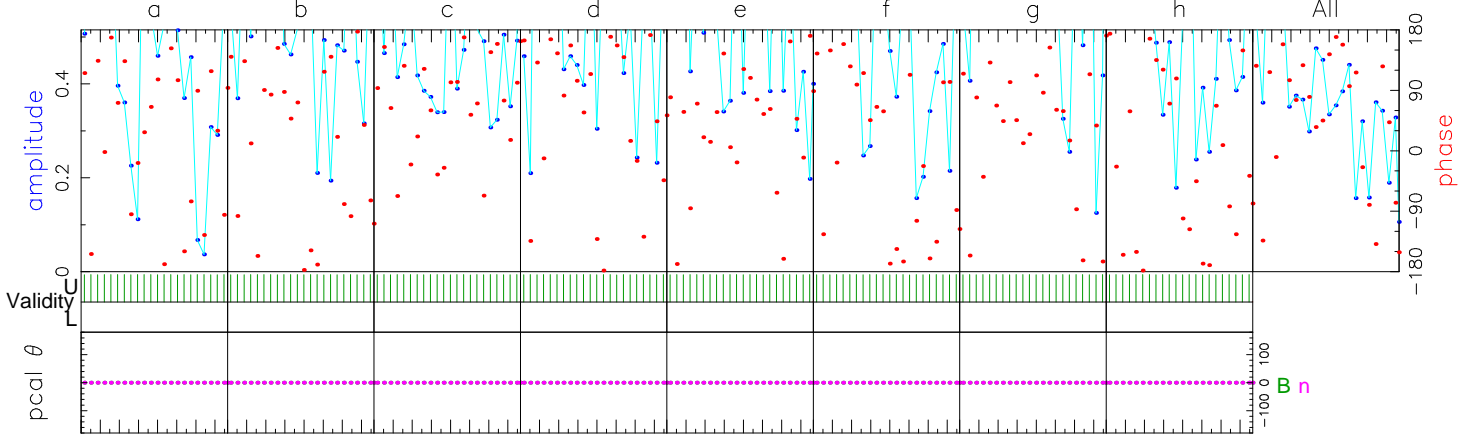
ph/seg (deg)	63.3	RMS	7.1	Theor.	7.1	Amplitude	0.676 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	93.6	Search (2048X32)	0.670	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	48.7	Inc. seg. avg.	1.172	Inc. frq. avg.	0.881	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	33.5	Inc. frq. avg.	0.881	Sample rate (MSamp/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	I: az 82.1 el 24.3 pa -58.9	u, v (fr/asec)	10514.175 756.588			ion window (TEC)	0.00	0.00	simultaneous interpolator			



Fringe quality 9  
SNR 9.8  
Int time 437.917  
Amp 0.172  
Phase 112.9  
PFD 3.6e-14  
Delays (us)  
SBD -0.005351  
MBD 0.000785  
Fringe rate (Hz) 0.016049  
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"

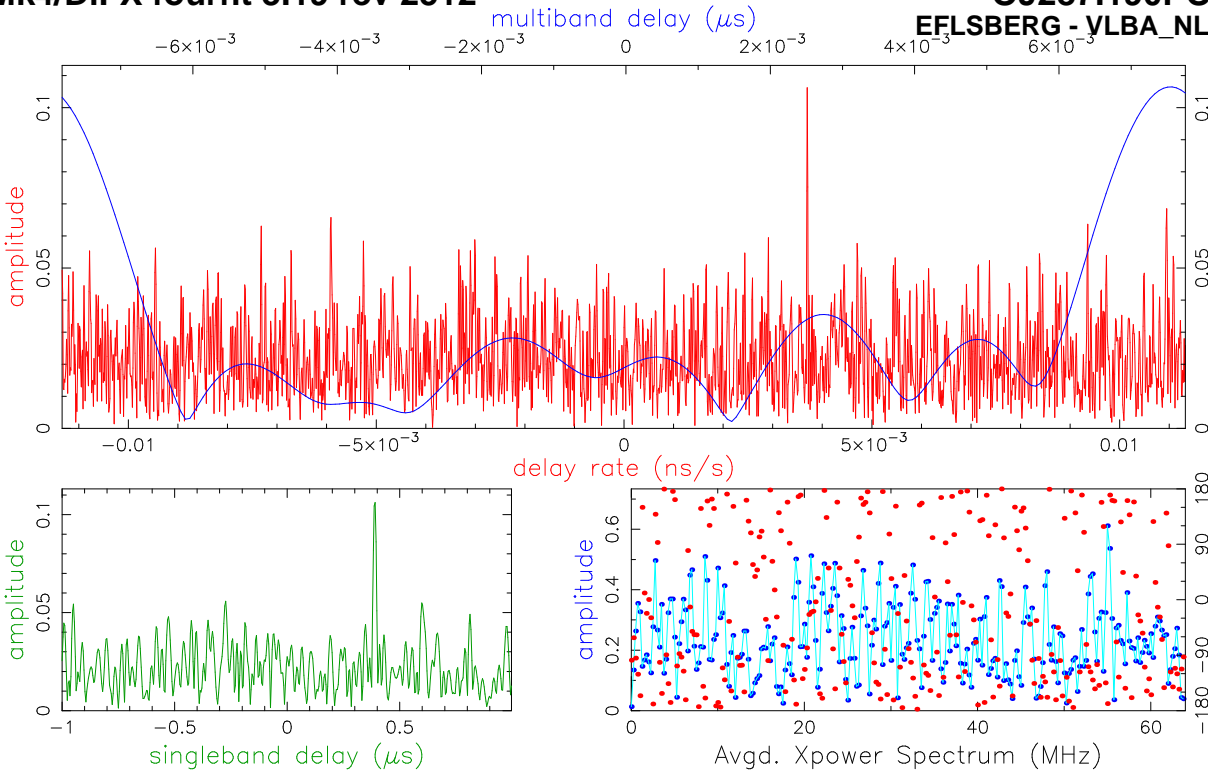


Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



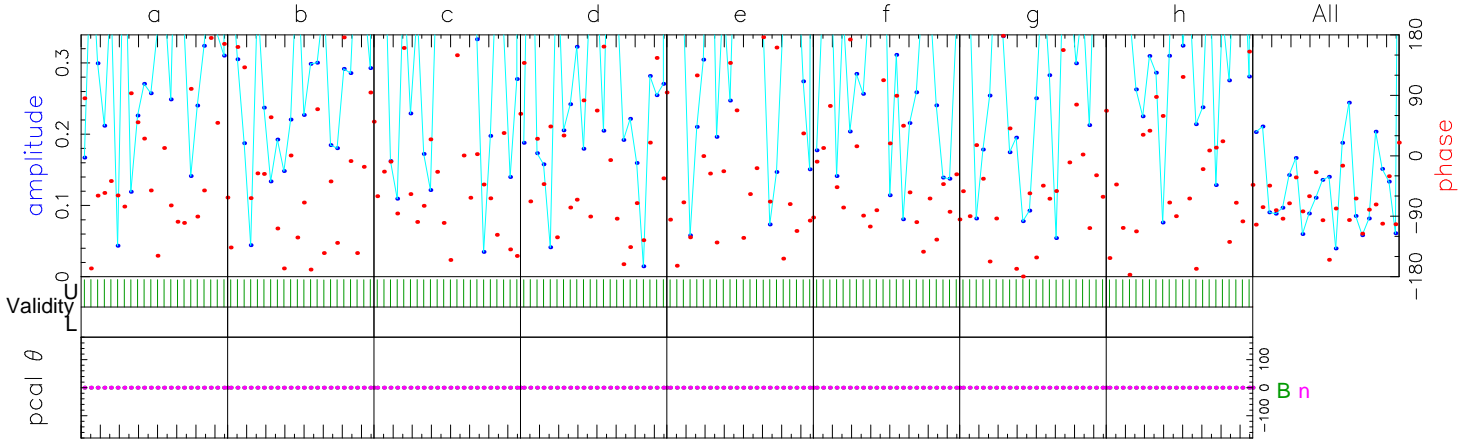
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	122.2	142.5	77.0	143.7	57.9	150.3	82.3	-157.8	Phase	112.9
	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.1	Ampl.	0.2
	120.4	255.4	255.4	256.0	256.0	255.9	256.4	253.0	Sbd box	255.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.56054890128E+03		Apriori delay (usec)		2.56054811602E+03		Resid mbdelay (usec)		7.85264E-04	+/- 1.1E-04
Sband delay (usec)	2.56054276477E+03		Apriori clock (usec)		-1.9259680E+01		Resid sbdelay (usec)		-5.35125E-03	+/- 8.8E-04
Phase delay (usec)	2.56054811966E+03		Apriori clockrate (us/s)		-5.3399998E-07		Resid phdelay (usec)		3.64107E-06	+/- 3.8E-07
Delay rate (us/s)	-1.52559696909E+00		Apriori rate (us/s)		-1.52559715540E+00		Resid rate (us/s)		1.86309E-07	+/- 1.5E-09
Total phase (deg)	9.9		Apriori accel (us/s/s)		-9.62579613461E-06		Resid phase (deg)		112.9	+/- 11.7

ph/seg (deg) 80.5 28.0 Amplitude 0.172 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 150.3 48.8 Search (2048X32) 0.167 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 52.5 16.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 51.1 28.8 Inc. seg. avg. 0.346 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



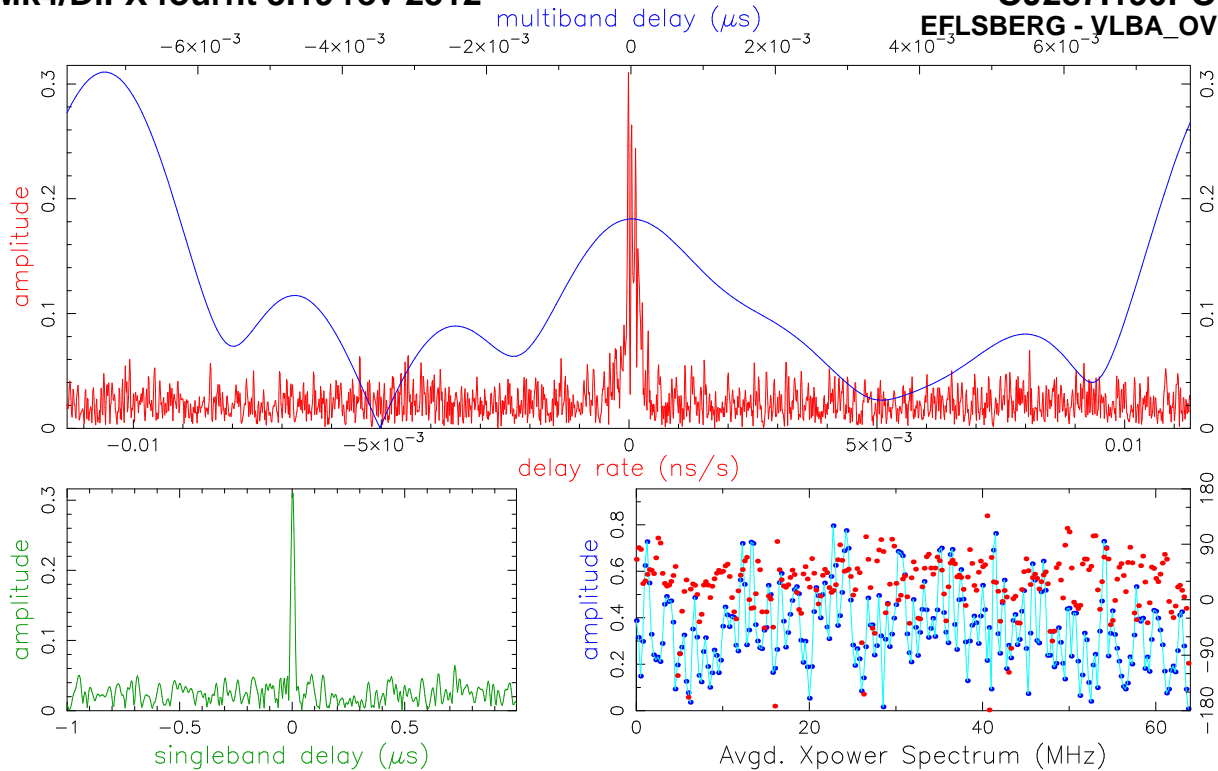
Fringe quality 0  
SNR 6.2  
Int time 437.917  
Amp 0.113  
Phase -74.5  
PFD 1.4e-01  
Delays (us)  
SBD 0.388986  
MBD 0.007471  
Fringe rate (Hz) 0.319282  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512  
Exp. c201c  
Exper # 16383  
Yr:day 2020:117  
Start 204500.00  
Stop 205219.80  
FRT 204840.00  
Corr/FF/build 2020:202:063214  
2020:202:210521  
2020:014:135814  
RA & Dec (J2000) 08h54m48.8749285s  
+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
	-76.2	-116.6	-71.1	-59.0	-81.3	-54.6	-64.2	-82.5	Phase	-74.5
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	405.6	14.9	347.1	220.8	201.3	259.5	13.5	46.7	Sbd box	356.6
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	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.56093058655E+03		Apriori delay (usec)		2.56054811602E+03		Resid mbdelay (usec)		7.47053E-03	+/- 1.8E-04
Sband delay (usec)	2.56093710152E+03		Apriori clock (usec)		-1.9259680E+01		Resid sbdelay (usec)		3.88986E-01	+/- 1.4E-03
Phase delay (usec)	2.56054811362E+03		Apriori clockrate (us/s)		-5.3399998E-07		Resid phdelay (usec)		-2.40293E-06	+/- 6.0E-07
Delay rate (us/s)	-1.52559344886E+00		Apriori rate (us/s)		-1.52559715540E+00		Resid rate (us/s)		3.70654E-06	+/- 2.3E-09
Total phase (deg)	182.4		Apriori accel (us/s/s)		-9.62579613461E-06		Resid phase (deg)		-74.5	+/- 18.5

ph/seg (deg) 32.3 44.4 Amplitude 0.113 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 58.0 77.4 Interp. 0.104 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 21.0 26.2 Inc. seg. avg. 0.102 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 20.1 45.7 Inc. frq. avg. 0.104 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 B: az 239.9 el 46.7 pa 35.9 n: az 94.6 el 35.9 pa -52.3 u,v (fr/asec) 9281.441 554.770 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/Bn..190POF Output file: /Exps/c201c/v1/1234/No0032/Bn.W.28.190POF

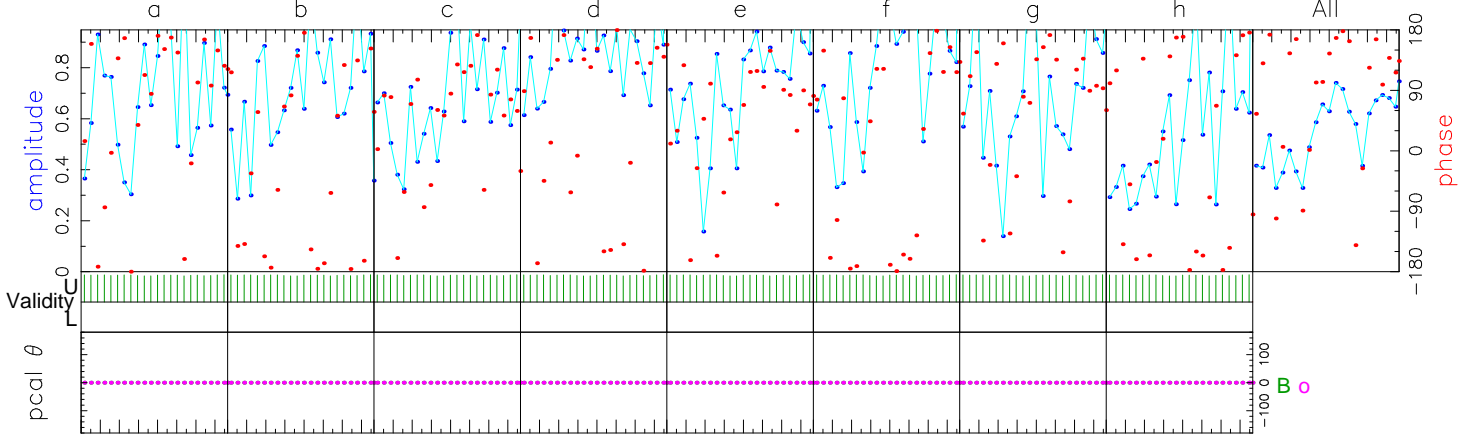


Fringe quality 8

SNR 17.9  
Int time 427.935  
Amp 0.316  
Phase 141.1  
PFD 0.0e+00  
Delays (us)  
SBD 0.002052  
MBD -0.007355  
Fringe rate (Hz)  
-0.001004  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

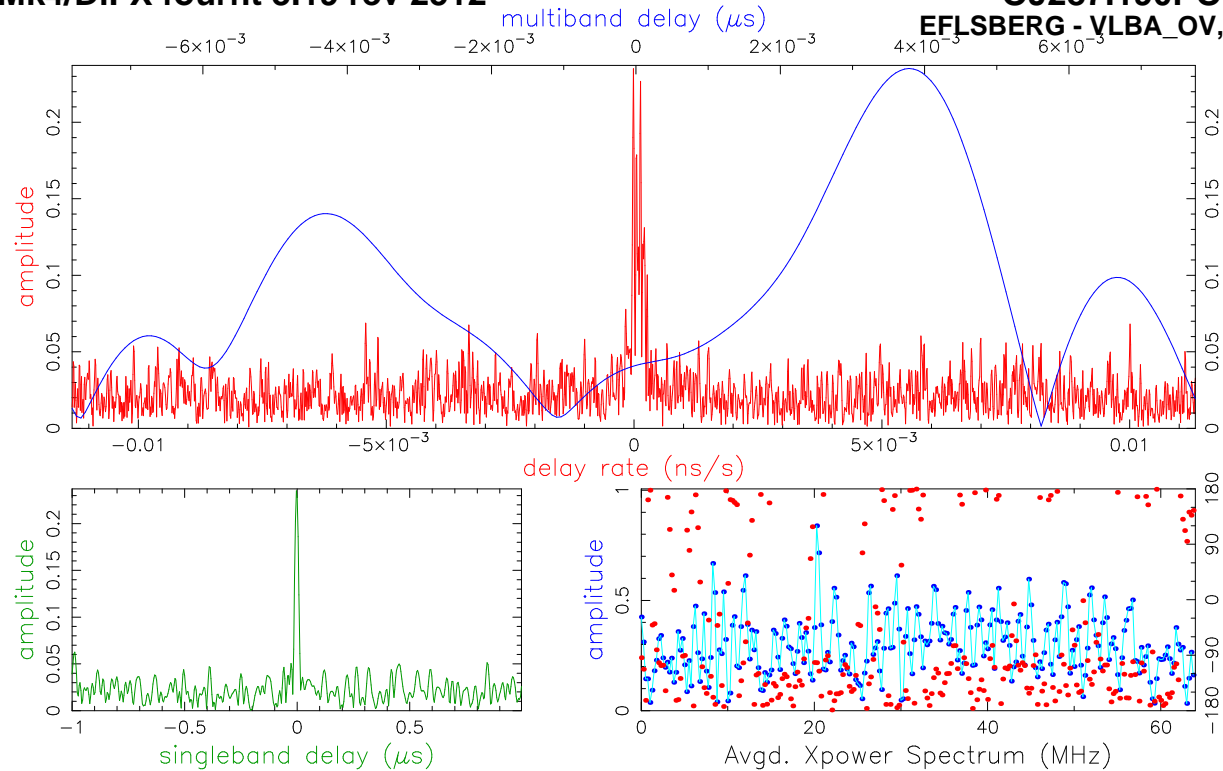
Exp. c201c  
Exper # 16383  
Yr:day 2020:117  
Start 204500.00  
Stop 205219.80  
FRT 204840.00  
Corr/FF/build  
2020:202:063214  
2020:202:210517  
2020:014:135814  
RA & Dec (J2000)  
08h54m48.874928s  
+20°06'30.640850"

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



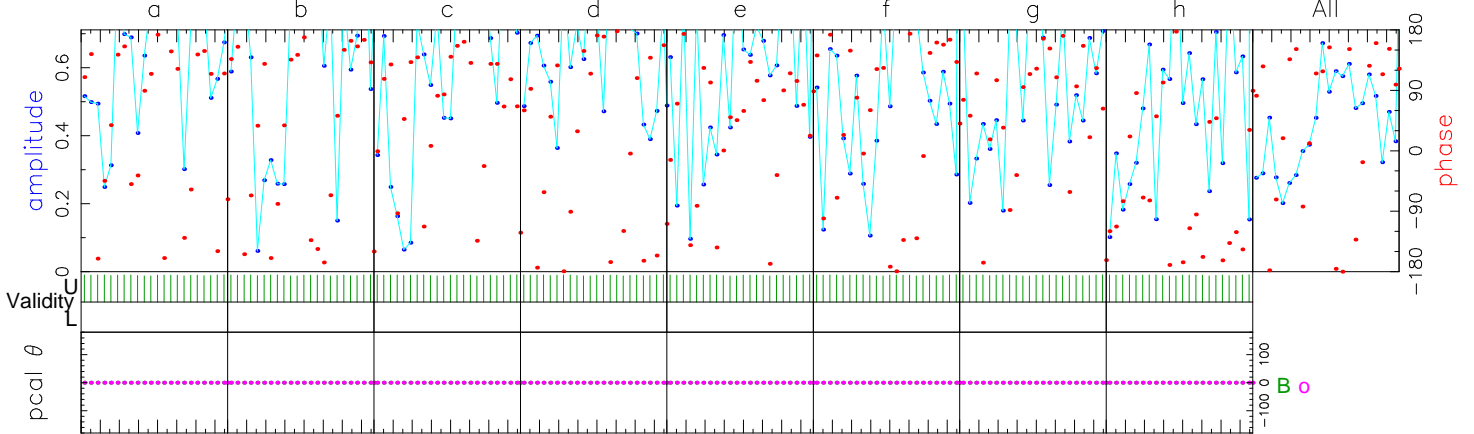
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	147.6	167.0	82.6	158.9	81.4	159.5	118.3	-174.0	Phase	141.1
	0.4	0.3	0.3	0.4	0.3	0.5	0.4	0.3	Ampl.	0.4
	258.2	257.7	257.9	257.7	258.2	257.4	257.8	258.4	Sbd box	257.5
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	9.46182325181E+03		Apriori delay (usec)		9.46181498202E+03		Resid mbdelay (usec)		-7.35521E-03	+/- 6.1E-05
Sband delay (usec)	9.46181703452E+03		Apriori clock (usec)		-7.0553513E+00		Resid sbdelay (usec)		2.05250E-03	+/- 4.8E-04
Phase delay (usec)	9.46181498657E+03		Apriori clockrate (us/s)		-4.0100001E-07		Resid phdelay (usec)		4.54988E-06	+/- 2.1E-07
Delay rate (us/s)	-1.75875438050E+00		Apriori rate (us/s)		-1.75875436885E+00		Resid rate (us/s)		-1.16551E-08	+/- 8.1E-10
Total phase (deg)	339.7		Apriori accel (us/s/s)		-4.38977642785E-05		Resid phase (deg)		141.1	+/- 6.4

ph/seg (deg) 74.1 15.4 Search (2048X32) 0.310 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 83.7 26.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 42.6 9.1 Inc. seg. avg. 0.528 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 25.1 15.8 Inc. frq. avg. 0.371 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 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) 10644.904 73.580 simultaneous interpolator



Fringe quality 9  
 SNR 13.4  
 Int time 427.935  
 Amp 0.237  
 Phase 146.4  
 PFD 2.8e-32  
 Delays (us)  
 SBD -0.002654  
 MBD 0.003805  
 Fringe rate (Hz)  
 -0.000921  
 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
U/L	148.6	174.9	117.1	160.6	79.6	165.5	108.1	-143.3	Phase	146.4
B	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.2	Ampl.	0.3
o	256.4	256.4	256.4	257.1	257.2	257.2	257.2	256.4	Sbd box	256.3
B	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	
B: o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B: o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	9.46181878718E+03		Apriori delay (usec)		9.46181498202E+03		Resid mbdelay (usec)		3.80516E-03	+/- 8.1E-05
Sband delay (usec)	9.46181232777E+03		Apriori clock (usec)		-7.0553513E+00		Resid sbdelay (usec)		-2.65425E-03	+/- 6.4E-04
Phase delay (usec)	9.46181498674E+03		Apriori clockrate (us/s)		-4.0100001E-07		Resid phdelay (usec)		4.72056E-06	+/- 2.8E-07
Delay rate (us/s)	-1.75875437953E+00		Apriori rate (us/s)		-1.75875436885E+00		Resid rate (us/s)		-1.06865E-08	+/- 1.1E-09
Total phase (deg)			Apriori accel (us/s/s)		-4.38977642785E-05		Resid phase (deg)		146.4	+/- 8.5

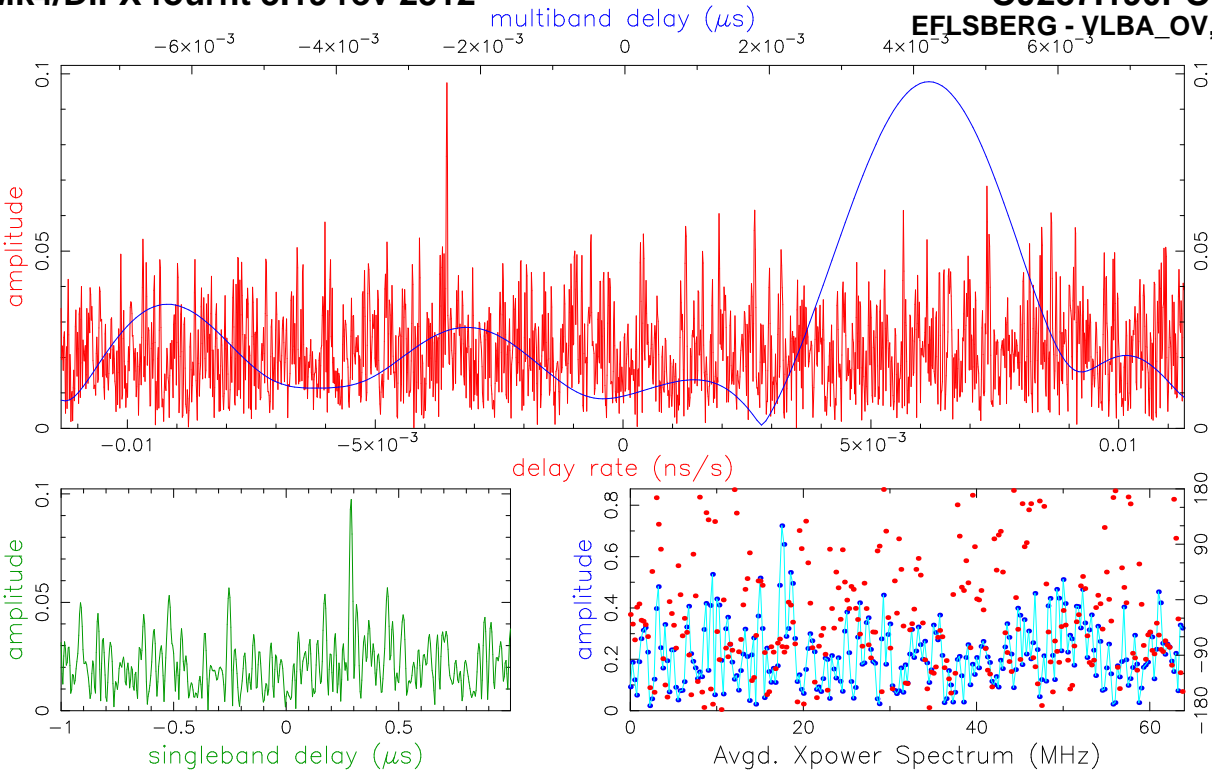
ph/seg (deg) 73.6 20.5 Search (2048X32) 0.234 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 98.4 35.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 46.7 12.1 Inc. seg. avg. 0.404 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 33.8 21.1 Inc. frq. avg. 0.287 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 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) 10644.904 73.580 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/Bo..190POF Output file: /Exps/c201c/v1/1234/No0032/Bo.W.29.190POF





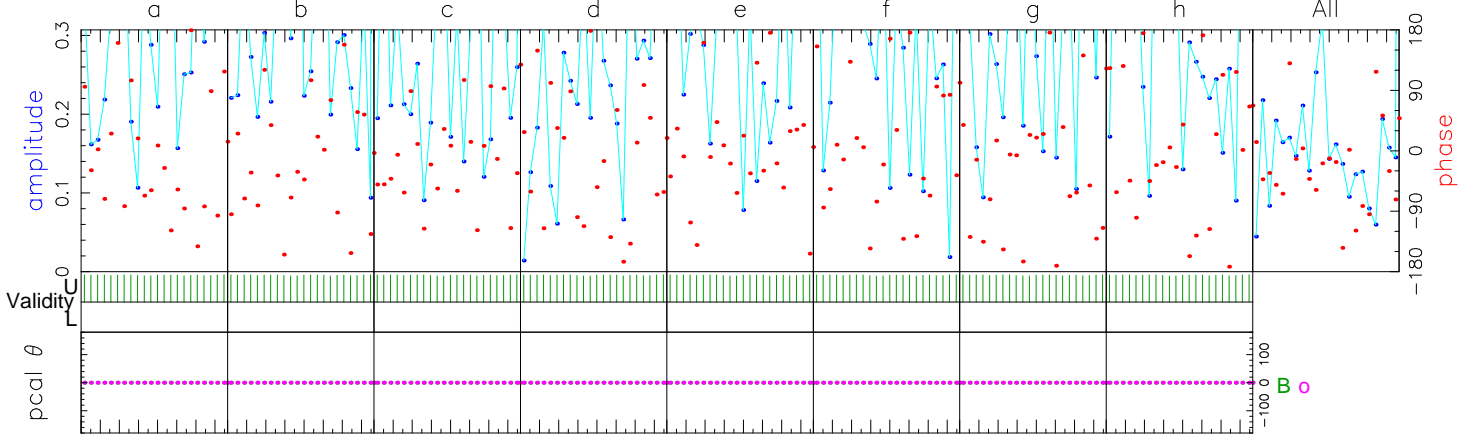
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, Bo  
EFLSBERG - VLBA\_OV, fgroup W, pol RL



Fringe quality 0  
SNR 5.6  
Int time 427.935  
Amp 0.102  
Phase -34.7  
PFD 1.0e+00  
Delays (us)  
SBD 0.287968  
MBD 0.004115  
Fringe rate (Hz)  
-0.306248  
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

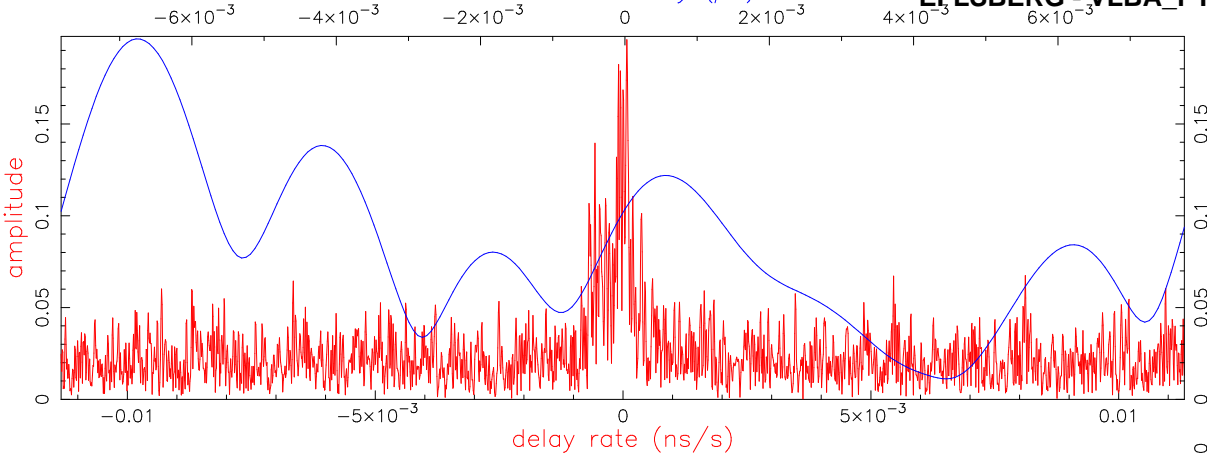


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-75.5	-25.0	-24.0	-66.7	-17.3	-25.5	-48.8	-30.1	Phase	-34.7
	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	Ampl.	0.1
	454.2	438.1	299.0	5.2	329.6	120.2	369.4	502.2	Sbd box	330.7
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	9.46210034702E+03		Apriori delay (usec)		9.46181498202E+03		Resid mbdelay (usec)		4.11500E-03	+/- 2.0E-04
Sband delay (usec)	9.46210295027E+03		Apriori clock (usec)		-7.0553513E+00		Resid sbdelay (usec)		2.87968E-01	+/- 1.5E-03
Phase delay (usec)	9.46181498090E+03		Apriori clockrate (us/s)		-4.0100001E-07		Resid phdelay (usec)		-1.11976E-06	+/- 6.6E-07
Delay rate (us/s)	-1.75875792408E+00		Apriori rate (us/s)		-1.75875436885E+00		Resid rate (us/s)		-3.55524E-06	+/- 2.6E-09
Total phase (deg)	163.8		Apriori accel (us/s/s)		-4.38977642785E-05		Resid phase (deg)		-34.7	+/- 20.6

RMS Theor. Amplitude 0.102 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 64.9 49.4 Search (2048X32) 0.096 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 91.5 86.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 24.1 29.2 Inc. seg. avg. 0.117 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 34.0 50.9 Inc. frq. avg. 0.095 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

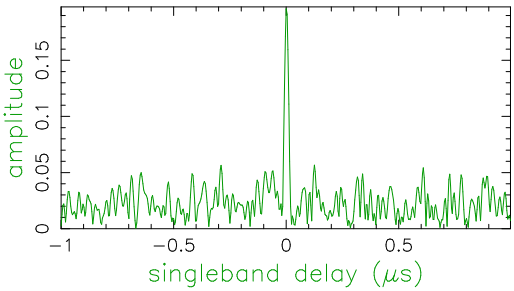
B: az 239.9 el 46.7 pa 35.9 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) 10644.904 73.580 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/Bo..190POF Output file: /Exps/c201c/v1/1234/No0032/Bo.W.64.190POF

multiband delay ( $\mu$ s)

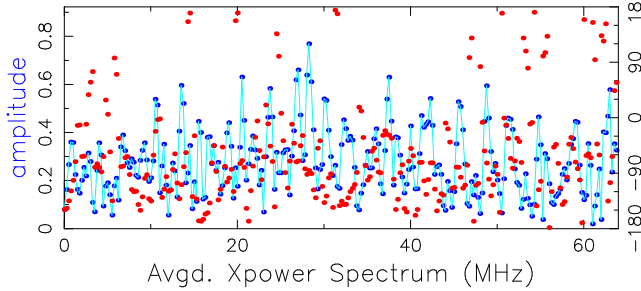


Fringe quality 9

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

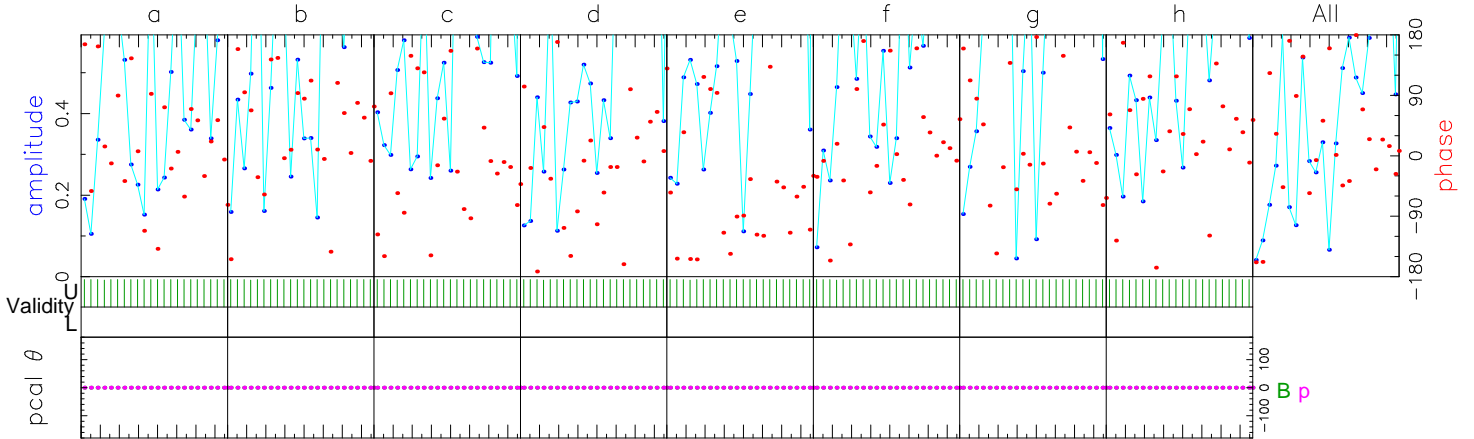


delay rate (ns/s)



Exp. c201c  
Exper # 16383  
Yr:day 2020:117  
Start 204500.00  
Stop 205219.80  
FRT 204840.00  
Corr/FF/build  
2020:202:063214  
2020:202:210517  
2020:014:135814  
RA & Dec (J2000)  
08h54m48.874928s  
+20°06'30.640850"

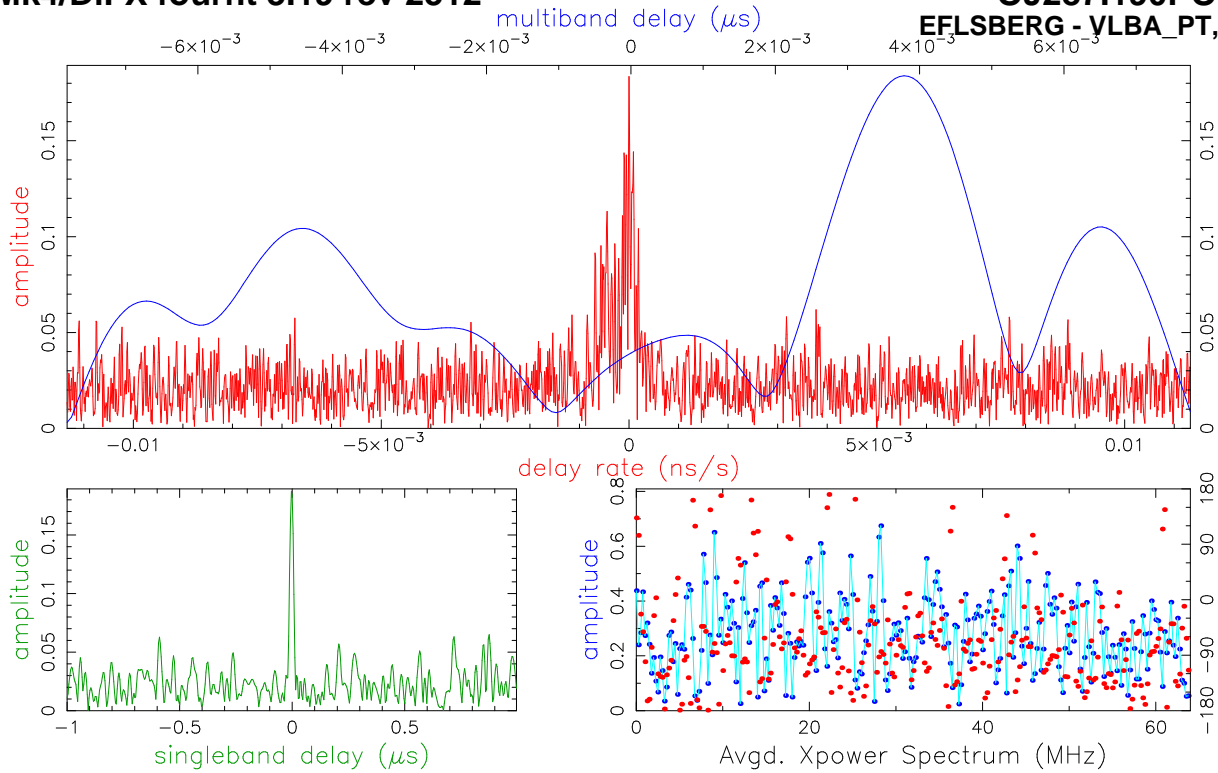
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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
	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3		Ampl.
	258.1	256.6	257.7	257.8	258.2	258.9	258.3	257.9		Sbd box
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	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  
 40.3 25.0 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

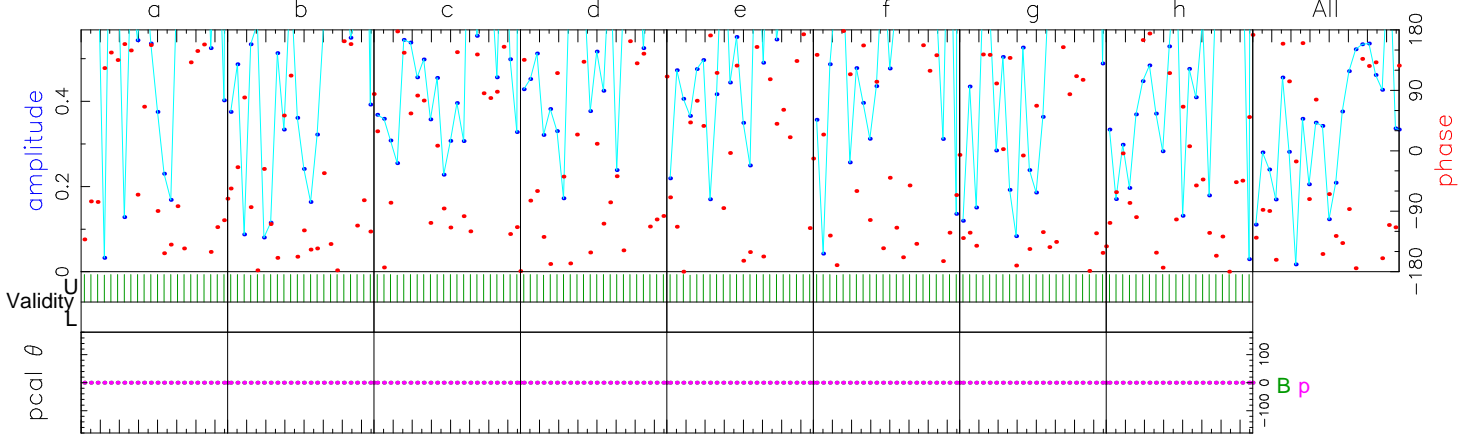


Fringe quality 9

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

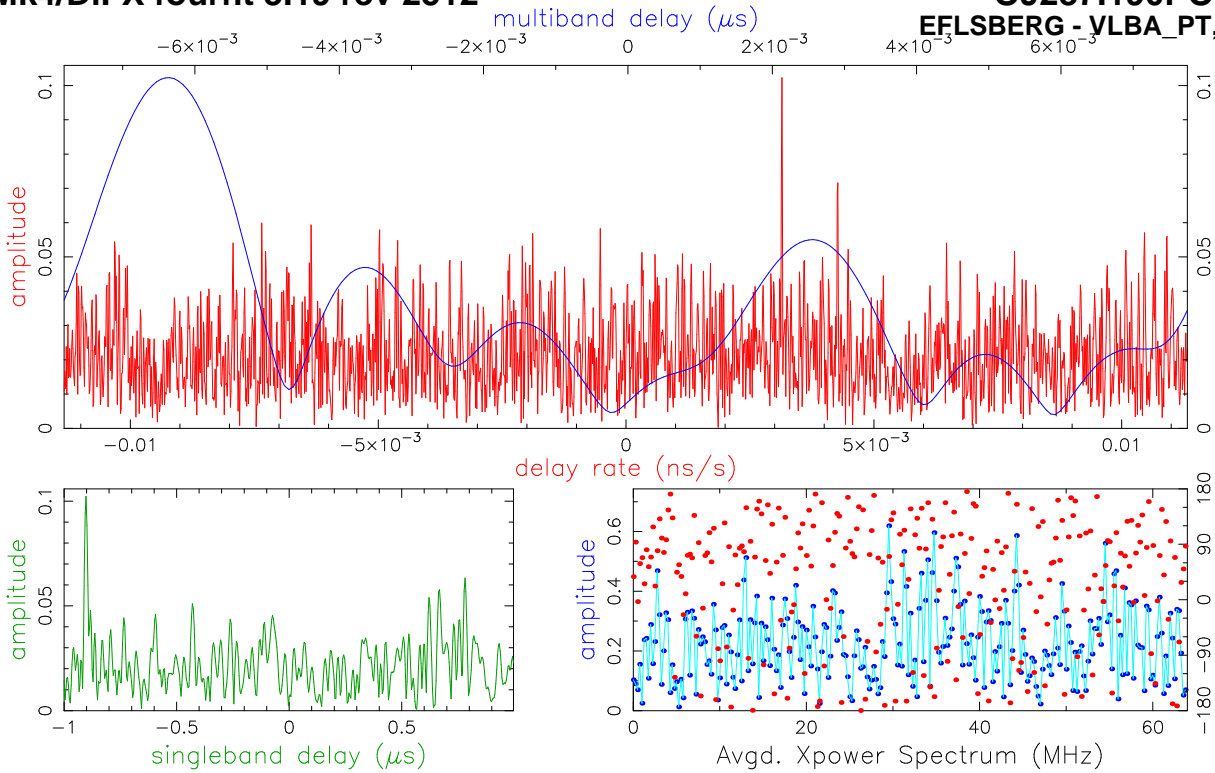
Exp. c201c  
Exper # 16383  
Yr:day 2020:117  
Start 204500.00  
Stop 205219.80  
FRT 204840.00  
Corr/FF/build  
2020:202:063214  
2020:202:210521  
2020:014:135814  
RA & Dec (J2000)  
08h54m48.874928s  
+20°06'30.640850"

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	
									Tracks	
Group delay (usec)(sbd)	6.83033767422E+03		Apriori delay (usec)		6.8303394685E+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

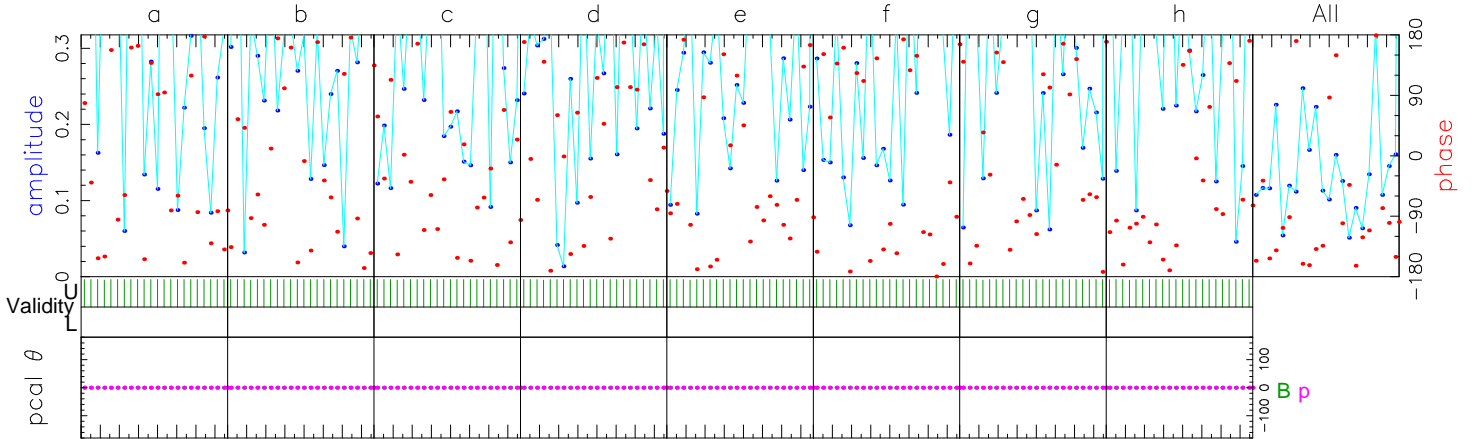


Fringe quality 0

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

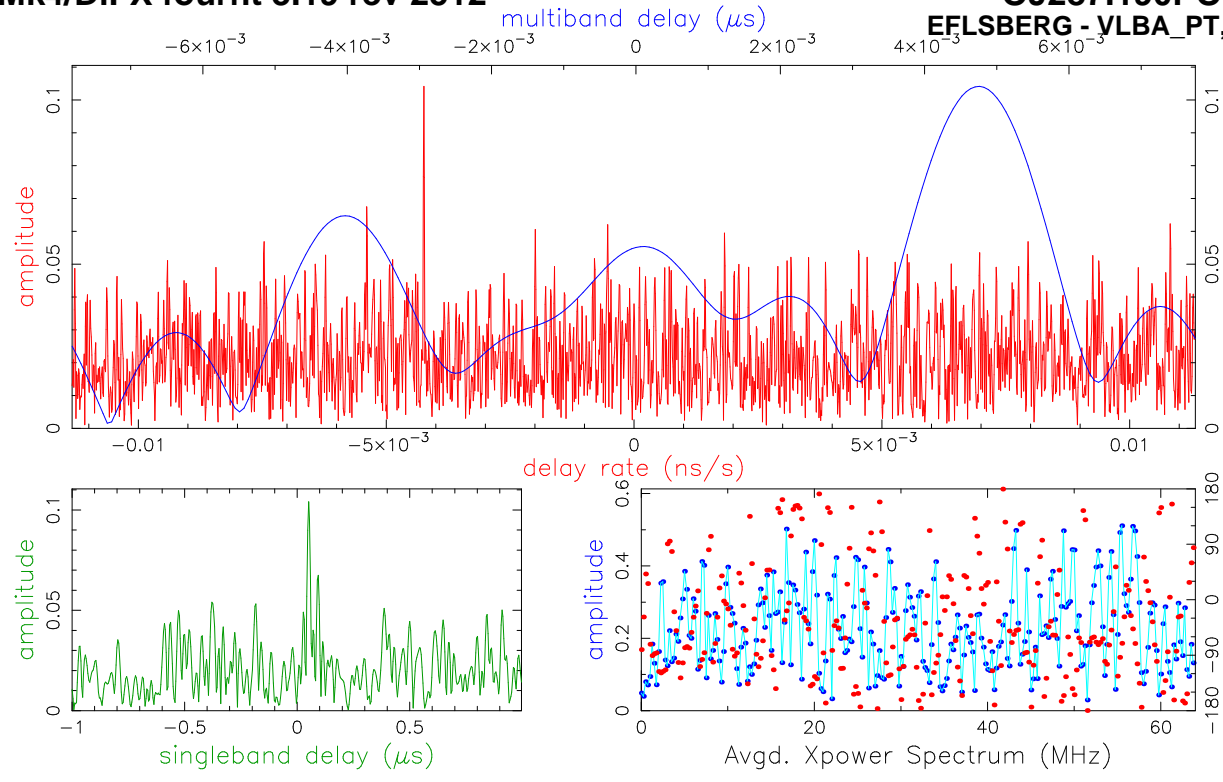
Exp. c201c  
Exper # 16383  
Yr:day 2020:117  
Start 204500.00  
Stop 205219.80  
FRT 204840.00  
Corr/FF/build 2020:202:063214  
2020:202:210525  
2020:014:135814  
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

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



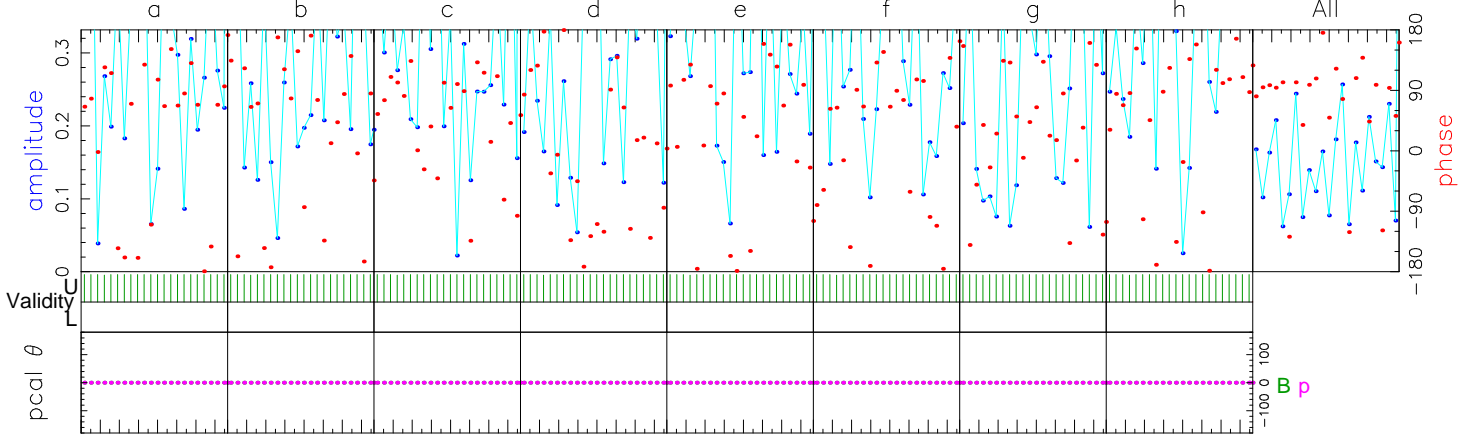
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-168.6	-137.5	-87.0	-178.5	-120.6	-165.8	-126.9	-144.7	Phase	-143.3
	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	Ampl.	0.1
	179.4	126.7	511.1	339.1	1.4	26.7	10.7	449.0	Sbd box	25.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	
									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



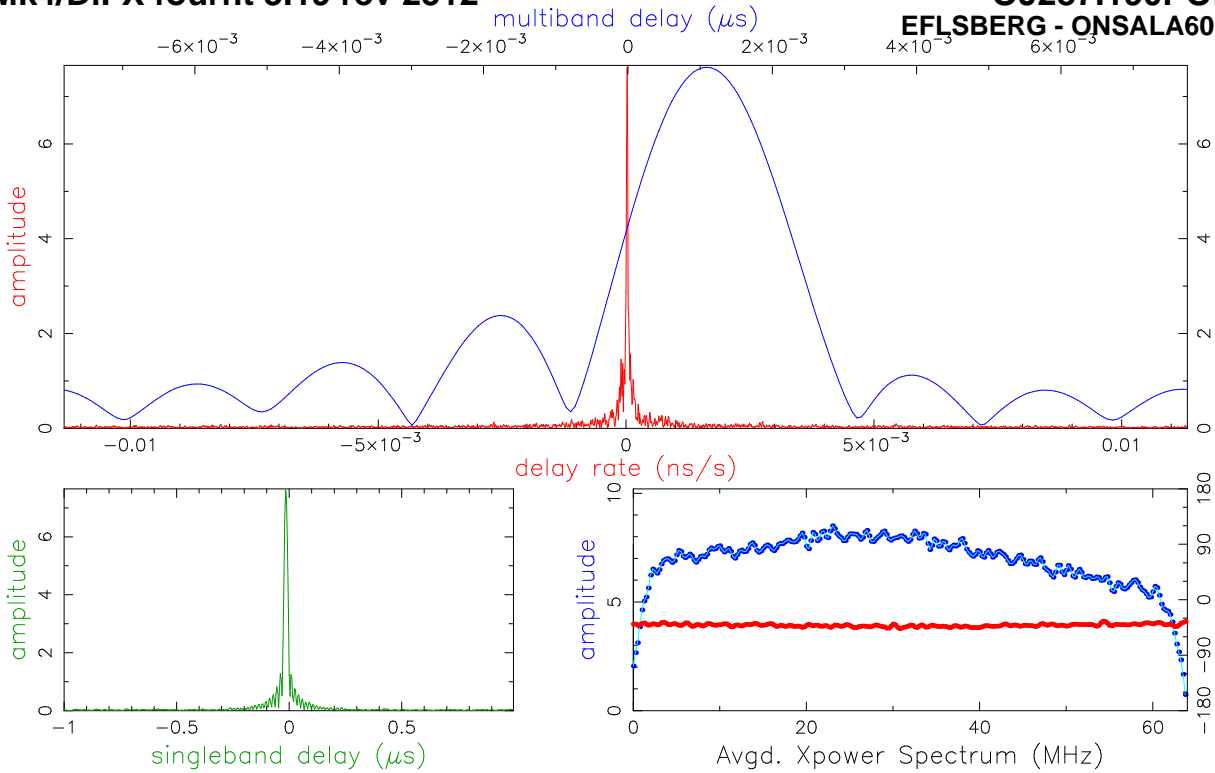
Fringe quality 0  
SNR 6.0  
Int time 438.936  
Amp 0.111  
Phase 99.7  
PFD 4.5e-01  
Delays (us)  
SBD 0.051220  
MBD 0.004758  
Fringe rate (Hz)  
-0.365363  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c201c  
Exper # 16383  
Yr:day 2020:117  
Start 204500.00  
Stop 205219.80  
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



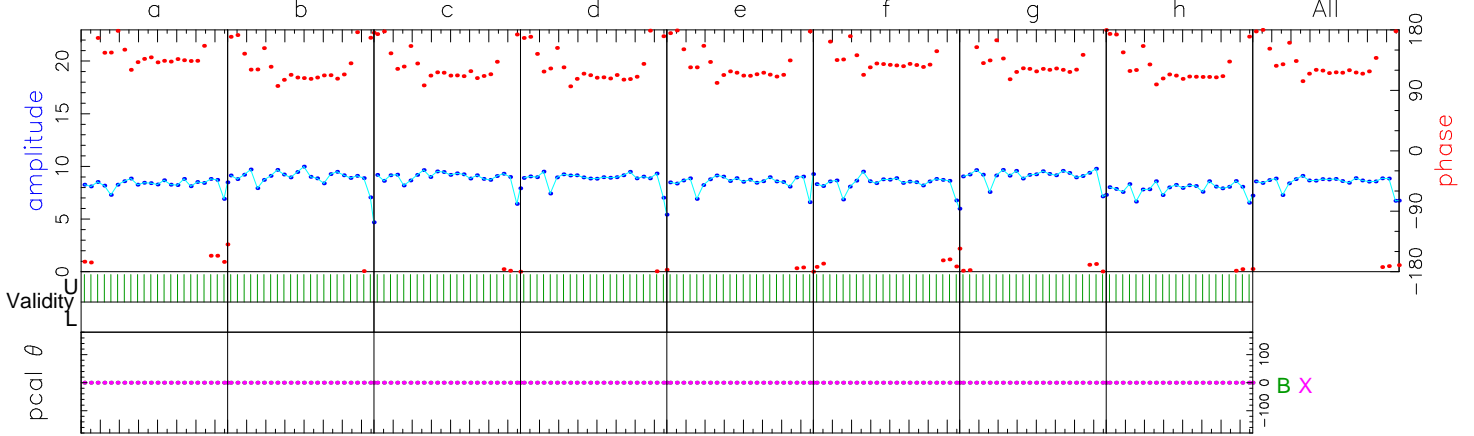
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	116.6	113.0	58.8	-141.3	93.0	90.3	66.3	118.8	Phase	99.7
	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.2	Ampl.	0.1
	269.1	363.6	64.4	443.0	270.8	321.9	418.0	270.3	Sbd box	270.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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	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)	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 7  
SNR 439.0  
Int time 439.695  
Amp 7.657  
Phase 136.2  
PFD 0.0e+00  
Delays (us)  
SBD -0.014655  
MBD 0.001115  
Fringe rate (Hz) 0.002181  
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  
2020:202:210519  
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

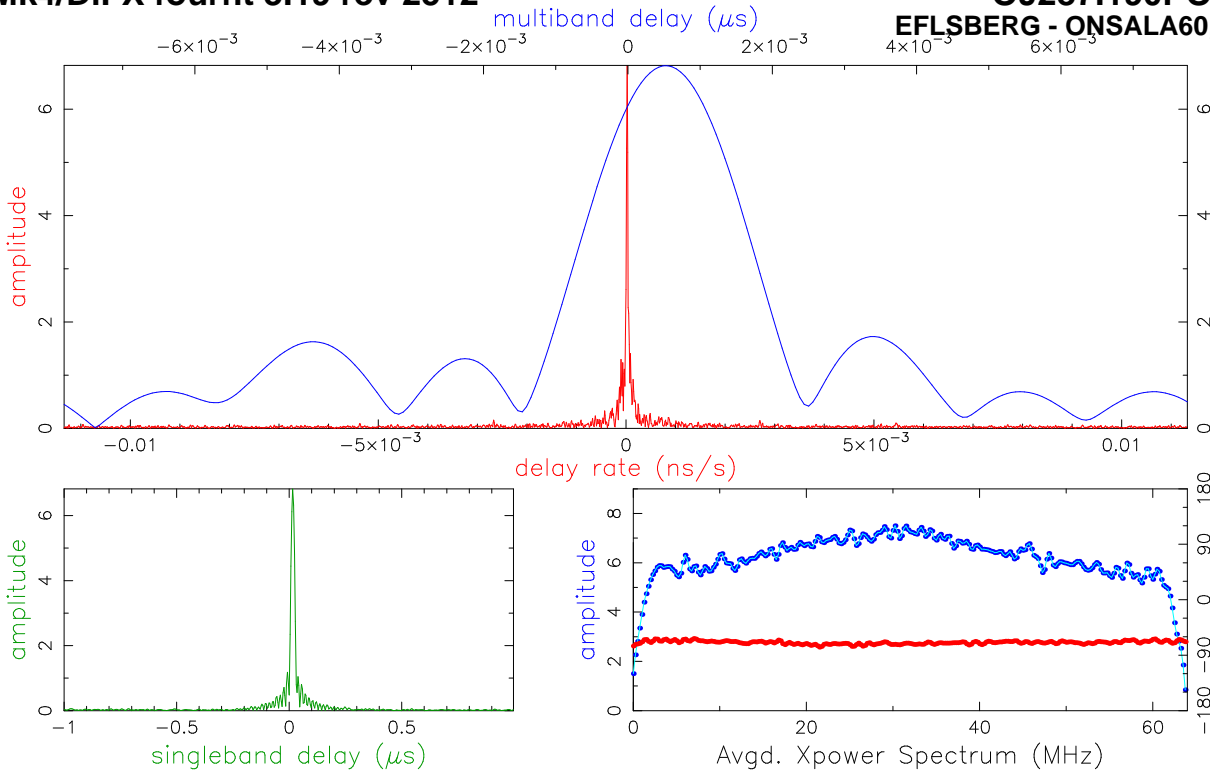


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	0:0	0:0	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.58146997886E+03	Apriori delay (usec)	1.58148448846E+03	Resid mbdelay (usec)	1.11540E-03	+/-	2.5E-06
Sband delay (usec)	1.58146983346E+03	Apriori clock (usec)	-2.7747168E+01	Resid sbdelay (usec)	-1.46550E-02	+/-	2.0E-05
Phase delay (usec)	1.58148449285E+03	Apriori clockrate (us/s)	-7.2800002E-07	Resid phdelay (usec)	4.39199E-06	+/-	8.4E-09
Delay rate (us/s)	-4.07606626956E-02	Apriori rate (us/s)	-4.07606880166E-02	Resid rate (us/s)	2.53210E-08	+/-	3.3E-11
Total phase (deg)	77.1	Apriori accel (us/s/s)	-1.12875089231E-05	Resid phase (deg)	136.2	+/-	0.3

ph/seg (deg)	27.3	RMS	27.3	Theor.	0.6	Amplitude	7.657 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	13.5		13.5		1.1	Search (2048X32)	7.412	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	10.0		10.0		0.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	4.9		4.9		0.6	Inc. seg. avg.	8.544	Sample rate (MSamp/s):	128		dr window (ns/s)	-0.011 0.011	
						Inc. frq. avg.	7.702	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 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) 230.581 -912.812 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/BX..190POF Output file: /Exps/c201c/v1/1234/No0032/BX.W.19.190POF

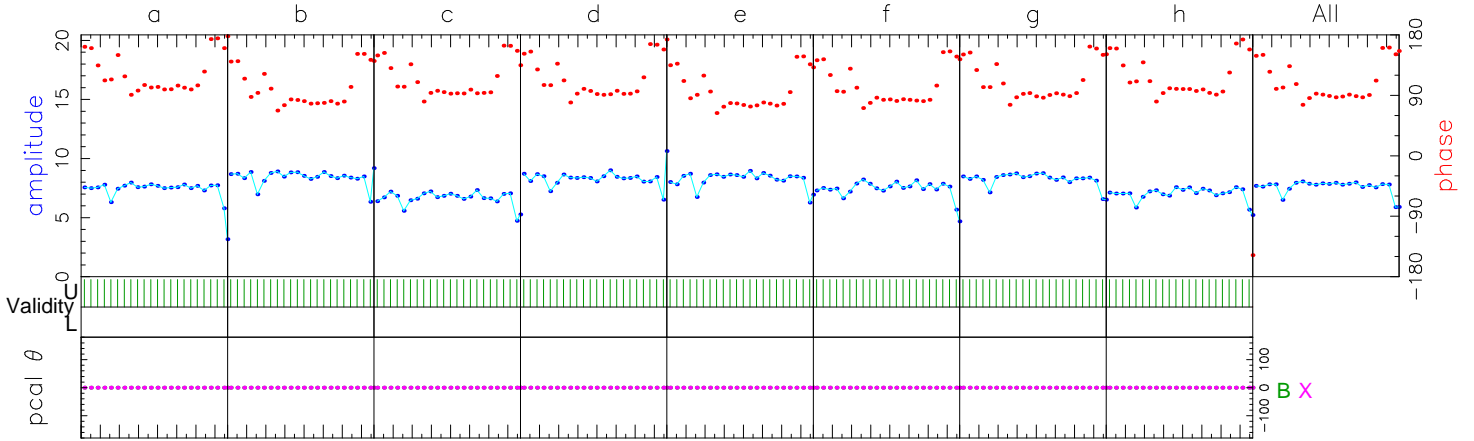


Fringe quality 7

SNR 391.3  
Int time 439.695  
Amp 6.824  
Phase 108.3  
PFD 0.0e+00  
Delays (us)  
SBD 0.015978  
MBD 0.000536  
Fringe rate (Hz) 0.002179  
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  
2020:202:210524  
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
	120.9	99.0	112.6	113.2	94.9	102.4	109.8	116.7	Phase	108.3
	6.7	7.5	6.0	7.4	7.4	6.7	7.4	6.2	Ampl.	6.9
	260.5	260.9	261.5	260.9	261.0	261.5	261.3	260.6	Sbd box	261.1
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	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.58150064979E+03		Apriori delay (usec)		1.58148448846E+03		Resid mbdelay (usec)		5.36334E-04	+/- 2.8E-06
Sband delay (usec)	1.58150046646E+03		Apriori clock (usec)		-2.7747168E+01		Resid sbdelay (usec)		1.59780E-02	+/- 2.2E-05
Phase delay (usec)	1.58148449195E+03		Apriori clockrate (us/s)		-7.2800002E-07		Resid phdelay (usec)		3.49367E-06	+/- 9.4E-09
Delay rate (us/s)	-4.07606627260E-02		Apriori rate (us/s)		-4.07606880166E-02		Resid rate (us/s)		2.52905E-08	+/- 3.7E-11
Total phase (deg)	49.3		Apriori accel (us/s/s)		-1.12875089231E-05		Resid phase (deg)		108.3	+/- 0.3

ph/seg (deg) 27.4 0.7  
amp/seg (%) 14.1 1.2  
ph/frq (deg) 9.8 0.4  
amp/frq (%) 8.1 0.7

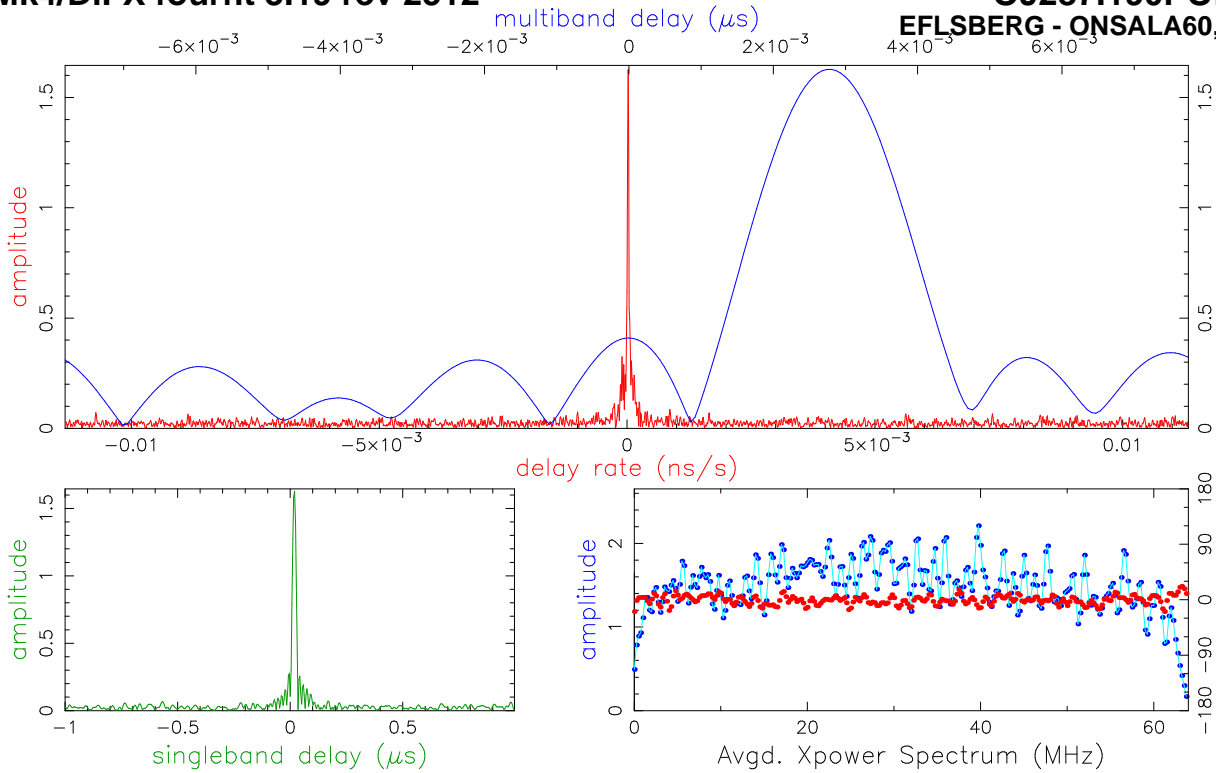
RMS Theor. Amplitude 6.824 +/- 0.017  
Search (2048X32) 6.670  
Interp. 0.000  
Inc. seg. avg. 7.653  
Inc. frq. avg. 6.895

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

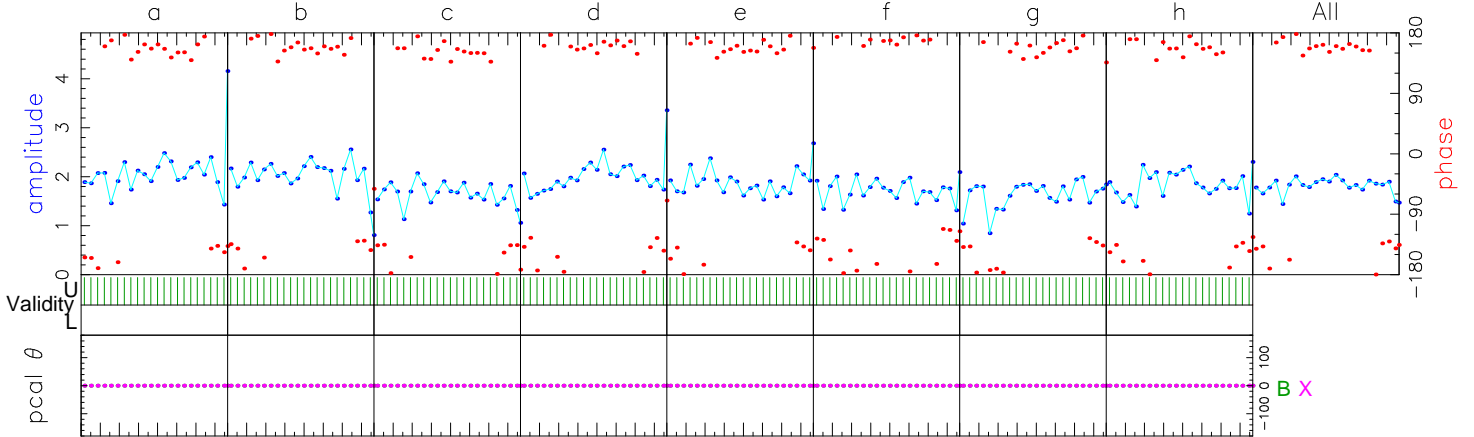
B: az 239.9 el 46.7 pa 35.9 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) 230.581 -912.812 simultaneous interpolator





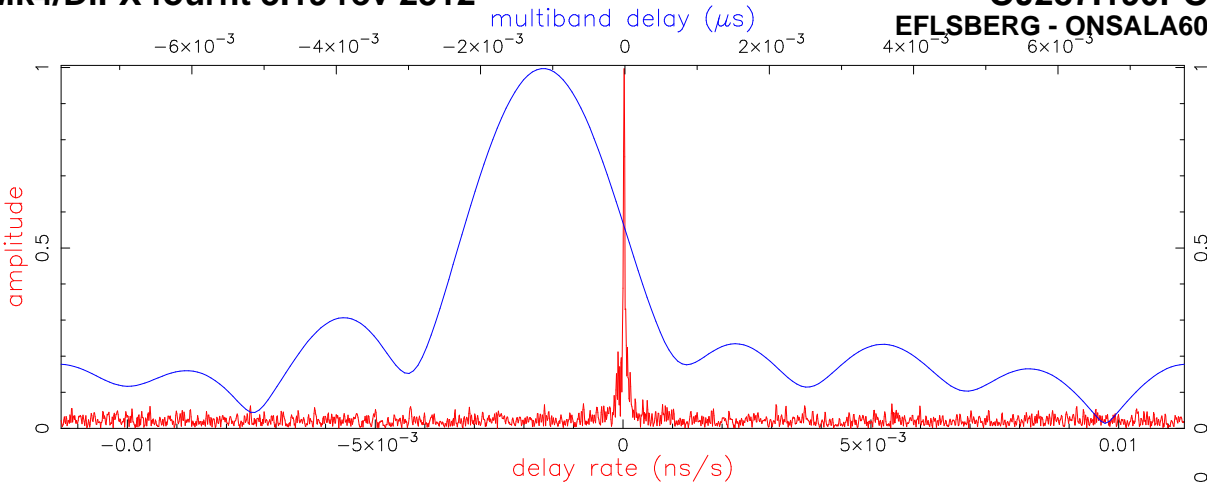
Fringe quality 7  
 SNR 94.4  
 Int time 439.695  
 Amp 1.646  
 Phase 177.1  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.018125  
 MBD 0.002730  
 Fringe rate (Hz) 0.002179  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512  
 Exp. c201c  
 Exper # 16383  
 Yr:day 2020:117  
 Start 204500.00  
 Stop 205219.80  
 FRT 204840.00  
 Corr/FF/build  
 2020:202:063214  
 2020:202:210528  
 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



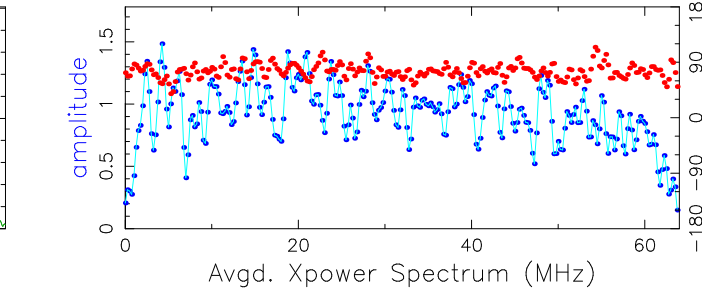
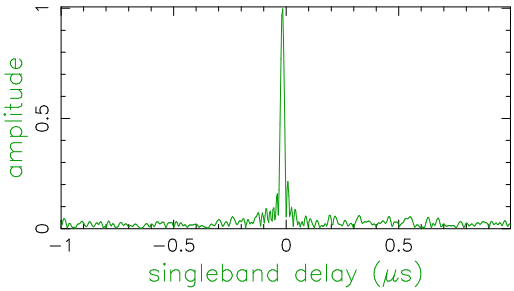
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	1.58150284354E+03		Apriori delay (usec)		1.58148448846E+03		Resid mbdelay (usec)		2.73008E-03	+/- 1.2E-05
Sband delay (usec)	1.58150261296E+03		Apriori clock (usec)		-2.7747168E+01		Resid sbdelay (usec)		1.81245E-02	+/- 9.1E-05
Phase delay (usec)	1.58148449417E+03		Apriori clockrate (us/s)		-7.2800002E-07		Resid phdelay (usec)		5.70991E-06	+/- 3.9E-08
Delay rate (us/s)	-4.07606627183E-02		Apriori rate (us/s)		-4.07606880166E-02		Resid rate (us/s)		2.52983E-08	+/- 1.5E-10
Total phase (deg)	118.0		Apriori accel (us/s/s)		-1.12875089231E-05		Resid phase (deg)		177.1	+/- 1.2

ph/seg (deg) 27.4 2.9 Search (2048X32) 1.575 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 13.8 5.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 6.9 1.7 Inc. seg. avg. 1.821 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 9.1 3.0 Inc. frq. avg. 1.634 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 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) 230.581 -912.812 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/BX..190POF Output file: /Exps/c201c/v1/1234/No0032/BX.W.61.190POF



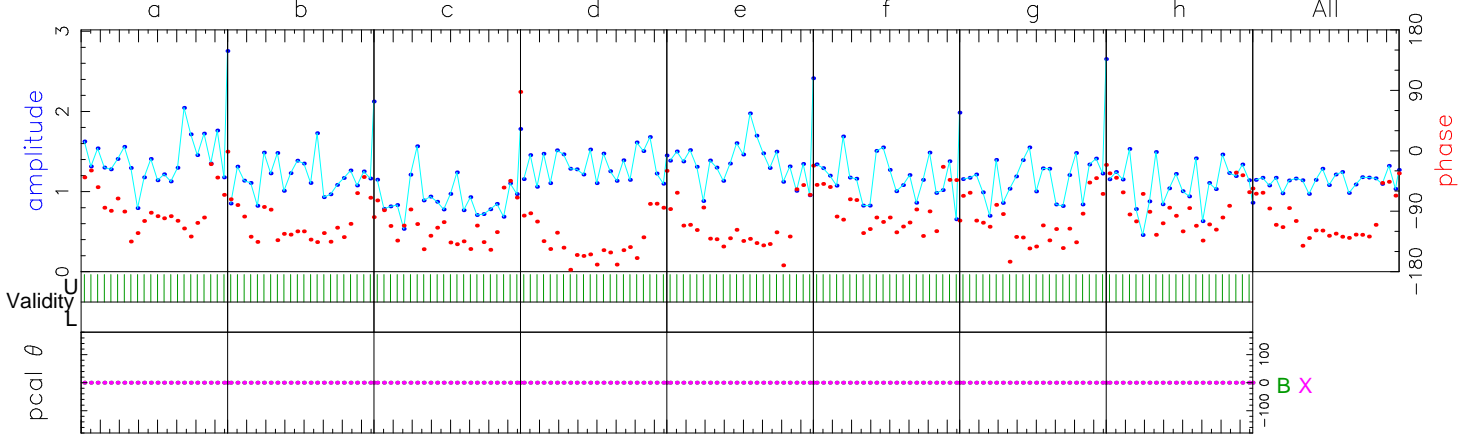
Fringe quality 6

SNR 57.7  
Int time 439.695  
Amp 1.006  
Phase -104.7  
PFD 0.0e+00  
Delays (us)  
SBD -0.016871  
MBD -0.001165  
Fringe rate (Hz)  
0.002183  
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

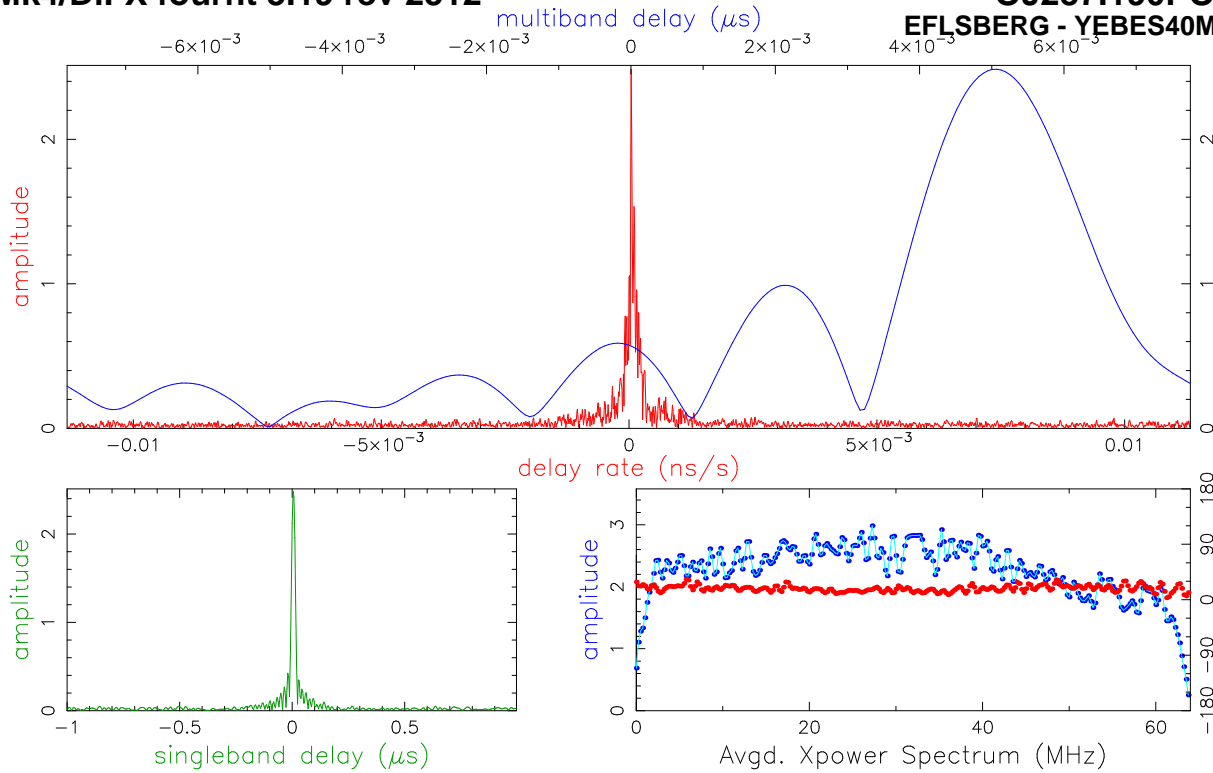


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-85.8	-108.1	-111.3	-134.5	-116.3	-87.8	-106.1	-85.9	Phase	-104.7
	1.2	1.1	0.8	1.2	1.2	1.0	1.0	1.0	Ampl.	1.0
	252.3	252.3	252.9	252.7	253.0	252.9	252.7	252.5	Sbd box	252.7
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) 1.58146769851E+03 Apriori delay (usec) 1.58148448846E+03 Resid mbdelay (usec) -1.16495E-03 +/- 1.9E-05  
 Sband delay (usec) 1.58146761796E+03 Apriori clock (usec) -2.7747168E+01 Resid sbdelay (usec) -1.68705E-02 +/- 1.5E-04  
 Phase delay (usec) 1.58148448508E+03 Apriori clockrate (us/s) -7.2800002E-07 Resid phdelay (usec) -3.37582E-06 +/- 6.4E-08  
 Delay rate (us/s) -4.07606626708E-02 Apriori rate (us/s) -4.07606880166E-02 Resid rate (us/s) 2.53458E-08 +/- 2.5E-10  
 Total phase (deg) 196.2 Apriori accel (us/s/s) -1.12875089231E-05 Resid phase (deg) -104.7 +/- 2.0

RMS Theor. Amplitude 1.006 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 28.7 4.8 Search (2048X32) 0.964 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 15.6 8.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 18.6 2.8 Inc. seg. avg. 1.131 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 13.2 4.9 Inc. frq. avg. 1.039 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 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) 230.581 -912.812 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/BX..190POF Output file: /Exps/c201c/v1/1234/No0032/BX.W.77.190POF

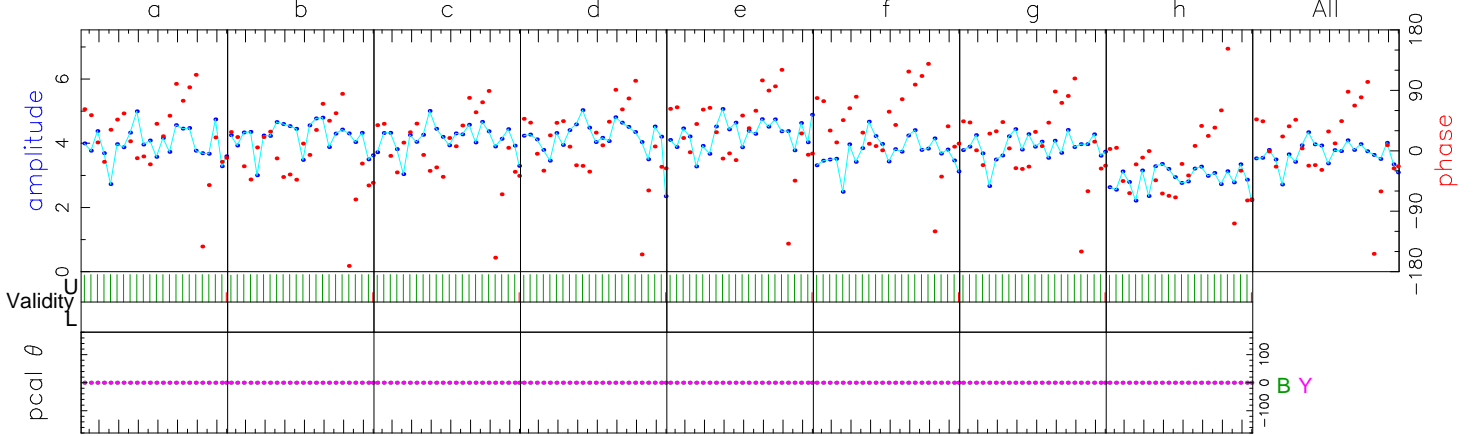


Fringe quality 3

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

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

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



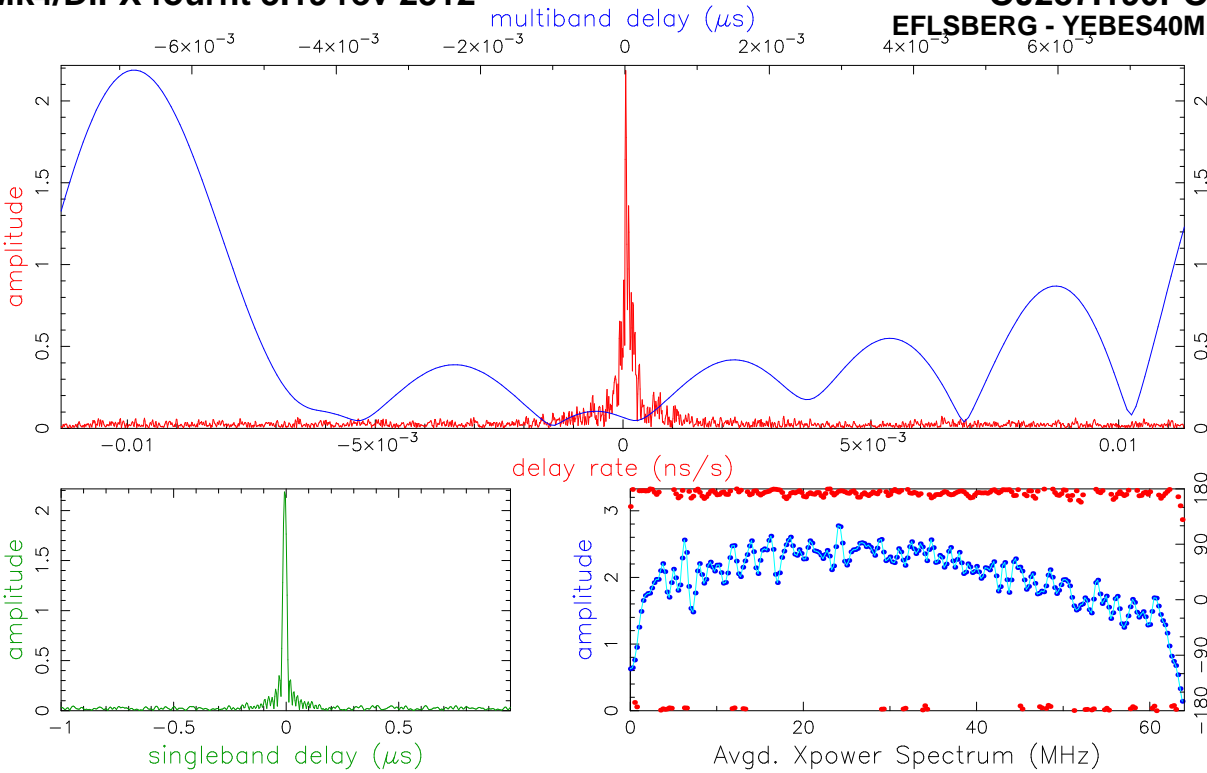
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	30.8	1.1	12.5	19.9	38.7	49.0	18.1	-24.3	Phase	19.6
	2.7	2.9	2.9	2.8	2.8	2.5	2.6	2.0	Ampl.	2.6
	258.3	258.1	258.4	258.5	258.7	258.1	258.0	256.5	Sbd box	258.4
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs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

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

	RMS	Theor.	Amplitude	2.511 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
ph/seg (deg)	55.1	1.9	Search (2048X32)	2.320	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
amp/seg (%)	48.8	3.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	24.7	1.1	Inc. seg. avg.	3.687	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	12.6	2.0	Inc. frq. avg.	2.637	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00

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

Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/BY..190POF Output file: /Exps/c201c/v1/1234/No0032/BY.W.21.190POF

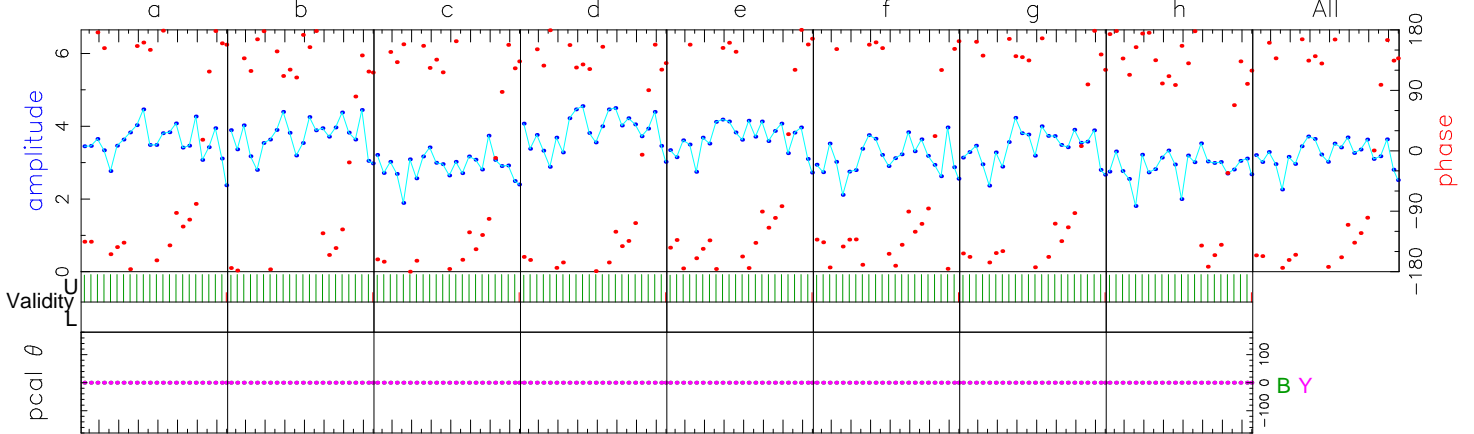


Fringe quality 4

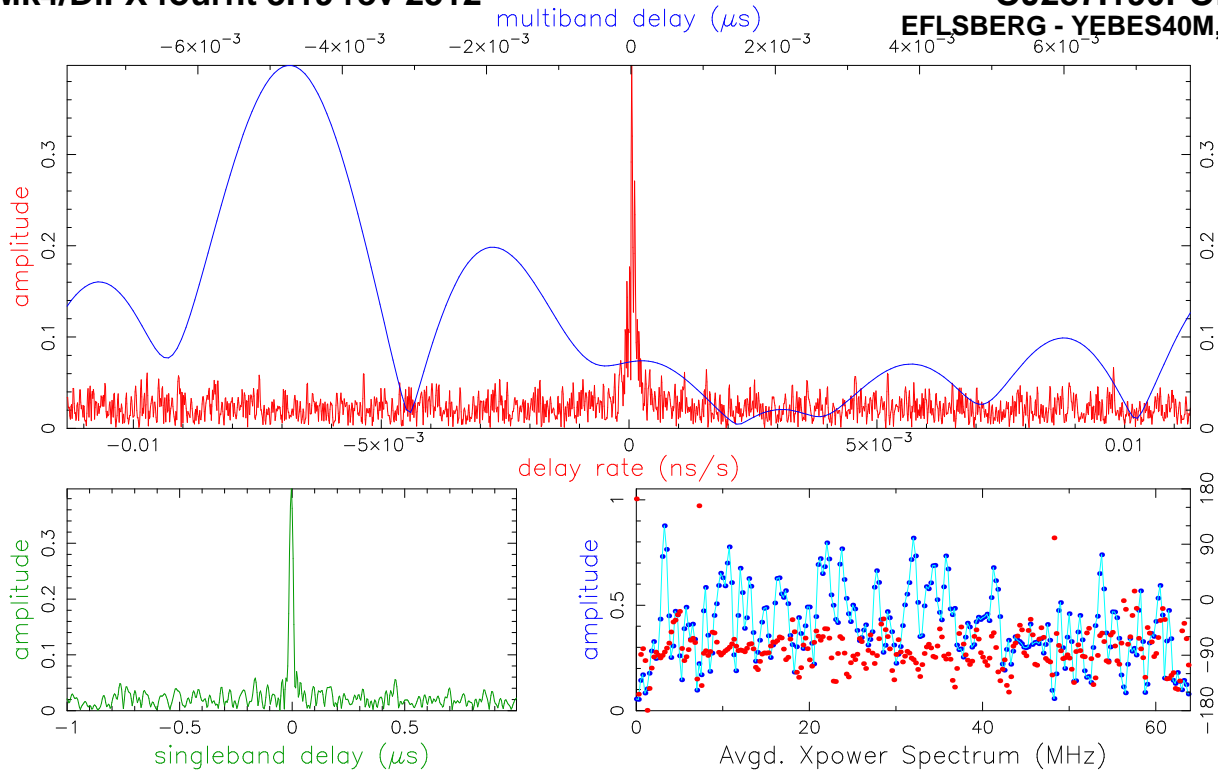
SNR 126.3  
Int time 434.145  
Amp 2.217  
Phase 179.7  
PFD 0.0e+00  
Delays (us)  
SBD -0.006235  
MBD -0.006756  
Fringe rate (Hz) 0.004331  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

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

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
Group delay (usec)(sbd)	-161.8	160.8	171.2	170.7	-162.0	-159.0	-177.7	150.1		179.7	
Sband delay (usec)	2.4	2.5	1.9	2.6	2.5	2.2	2.3	2.0		2.3	
Phase delay (usec)	255.2	254.8	255.7	255.3	255.5	255.3	255.2	254.2		255.4	
Delay rate (us/s)	-3.99318448409E-02										
Total phase (deg)			87.9							179.7	
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0			
B	1000	1000	1000	1000	1000	1000	1000	1000			
Y	1000	1000	1000	1000	1000	1000	1000	1000			
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
B	1000	1000	1000	1000	1000	1000	1000	1000			
Y	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)	-2.53456770662E+03				-2.53456095025E+03					-6.75637E-03 +/- 8.6E-06	
Sband delay (usec)	-2.53456718575E+03				1.0641727E+00					-6.23550E-03 +/- 6.8E-05	
Phase delay (usec)	-2.53456094446E+03				-4.2000000E-07					5.79487E-06 +/- 2.9E-08	
Delay rate (us/s)	-3.99318448409E-02				-3.99318951215E-02					5.02807E-08 +/- 1.2E-10	
Total phase (deg)			87.9		1.82060644109E-05					179.7 +/- 0.9	
pcal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5								
pcal rate:	0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us) -1.000 1.000		dr window (ns/s) -0.011 0.011		ion window (TEC) 0.00 0.00		
Bits/sample:	2x2		Data rate (Mb/s): 2048		nlags: 256		t_cohere infinite				
Sample rate (MSamp/s):	128										
Simultaneous interpolator											

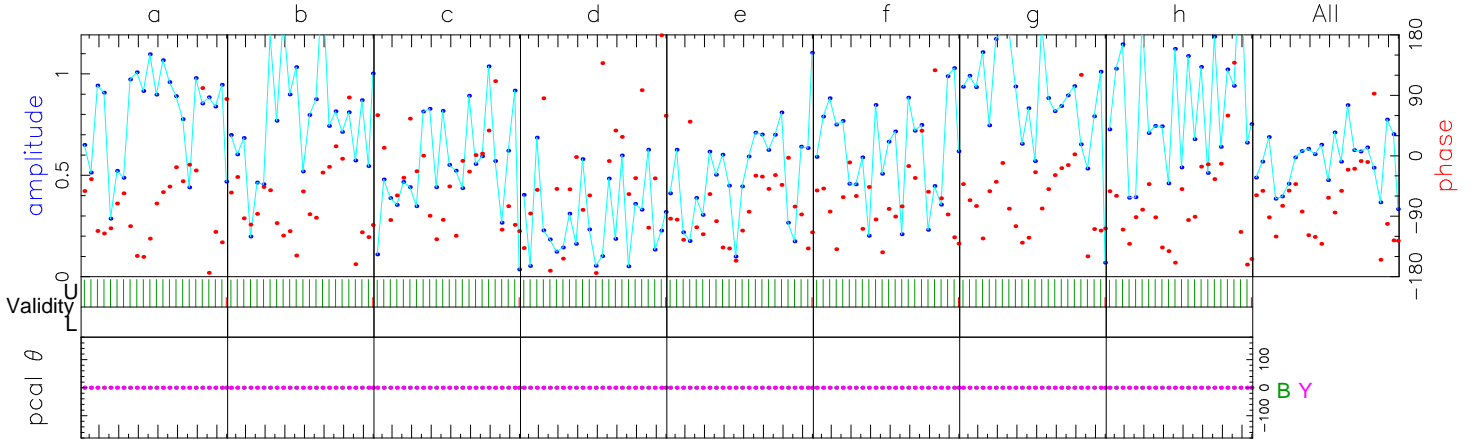


Fringe quality 9

SNR 22.7  
Int time 434.145  
Amp 0.398  
Phase -73.5  
PFD 0.0e+00  
Delays (us)  
SBD -0.004026  
MBD -0.004736  
Fringe rate (Hz) 0.004349  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

Exp. c201c  
Exper # 16383  
Yr:day 2020:117  
Start 204505.12  
Stop 205219.80  
FRT 204840.00  
Corr/FF/build  
2020:202:063214  
2020:202:210529  
2020:014:135814  
RA & Dec (J2000)  
08h54m48.874928s  
+20°06'30.640850"

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



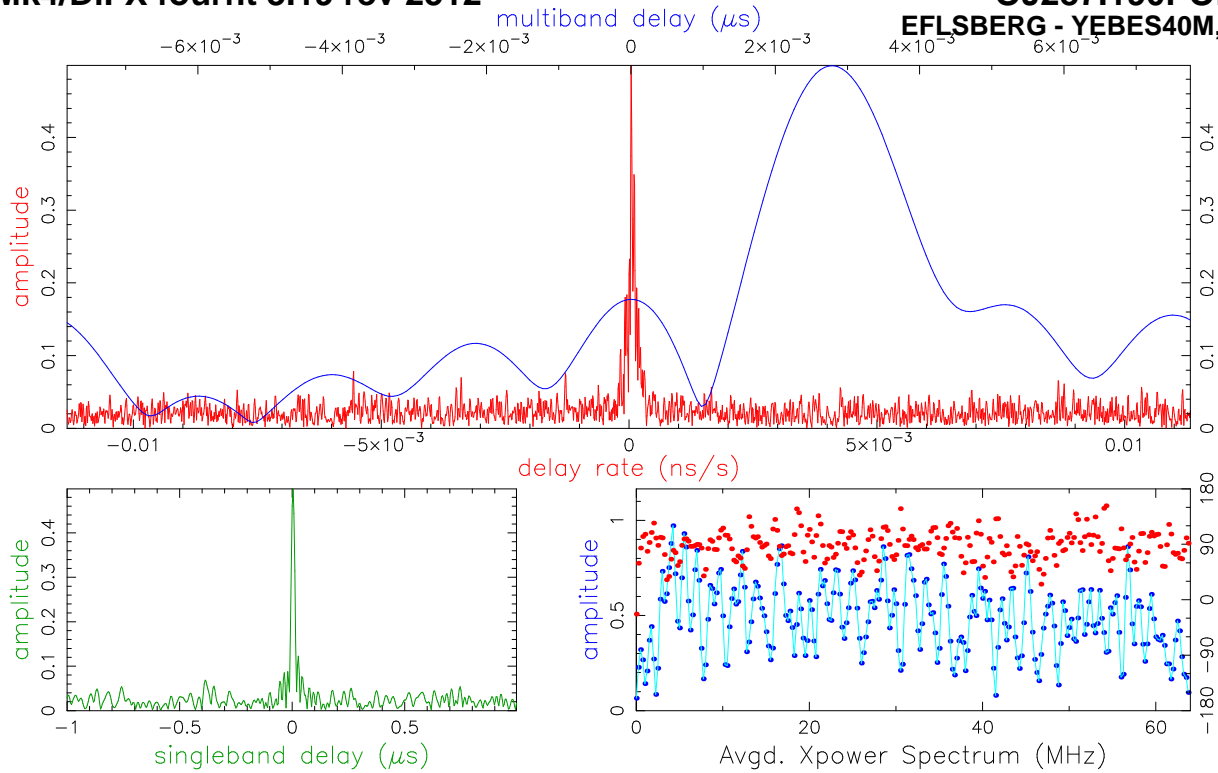
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-88.2	-75.9	-40.2	-50.5	-79.4	-74.6	-65.8	-86.1	Phase	-73.5
	0.5	0.5	0.3	0.1	0.4	0.4	0.6	0.5	Ampl.	0.4
	257.1	255.3	256.6	262.8	256.1	255.9	255.7	255.1	Sbd box	256.0
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-2.53456568647E+03	Apriori delay (usec)	-2.53456095025E+03	Resid mbdelay (usec)	-4.73621E-03	+/-	4.8E-05
Sband delay (usec)	-2.53456497625E+03	Apriori clock (usec)	1.0641727E+00	Resid sbdelay (usec)	-4.02600E-03	+/-	3.8E-04
Phase delay (usec)	-2.53456095262E+03	Apriori clockrate (us/s)	-4.2000000E-07	Resid phdelay (usec)	-2.36960E-06	+/-	1.6E-07
Delay rate (us/s)	-3.99318446311E-02	Apriori rate (us/s)	-3.99318951215E-02	Resid rate (us/s)	5.04904E-08	+/-	6.5E-10
Total phase (deg)	-165.3	Apriori accel (us/s/s)	1.82060644109E-05	Resid phase (deg)	-73.5	+/-	5.1

ph/seg (deg)	54.3	Theor.	12.1	Amplitude	0.398 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	56.4	Search (2048X32)	0.375	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	18.8	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	35.8	Inc. seg. avg.	0.572	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011	0.011	
		Inc. frq. avg.	0.406	Data rate (Mb/s):	2048	ion window (TEC)	0.00	0.00	

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

Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/BY..190POF Output file: /Exps/c201c/v1/1234/No0032/BY.W.66.190POF

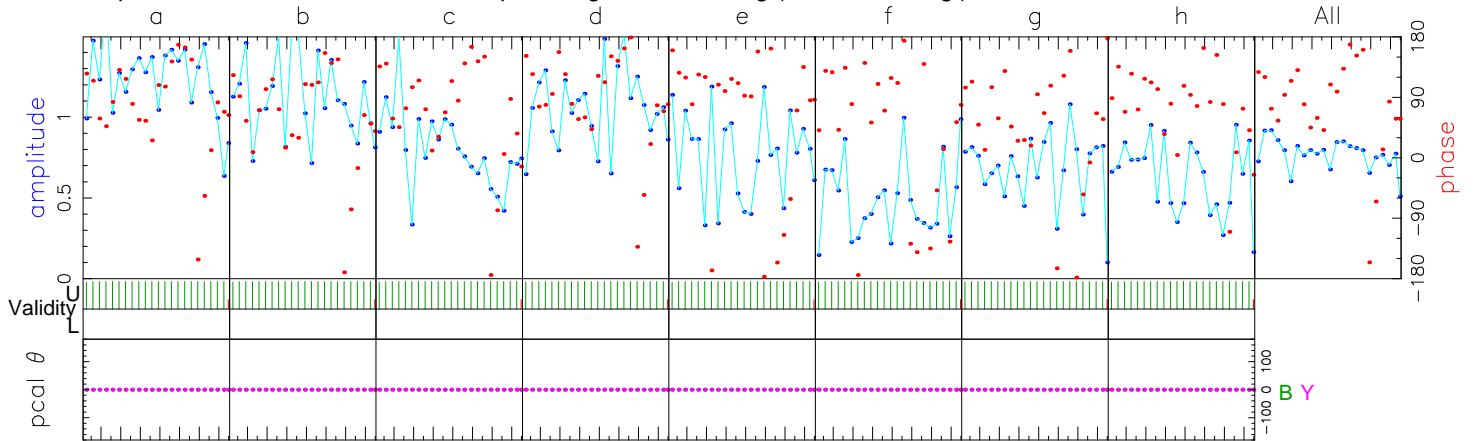


Fringe quality 5

SNR 28.4  
Int time 434.145  
Amp 0.499  
Phase 97.3  
PFD 0.0e+00  
Delays (us)  
SBD 0.003560  
MBD 0.002776  
Fringe rate (Hz) 0.004209  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

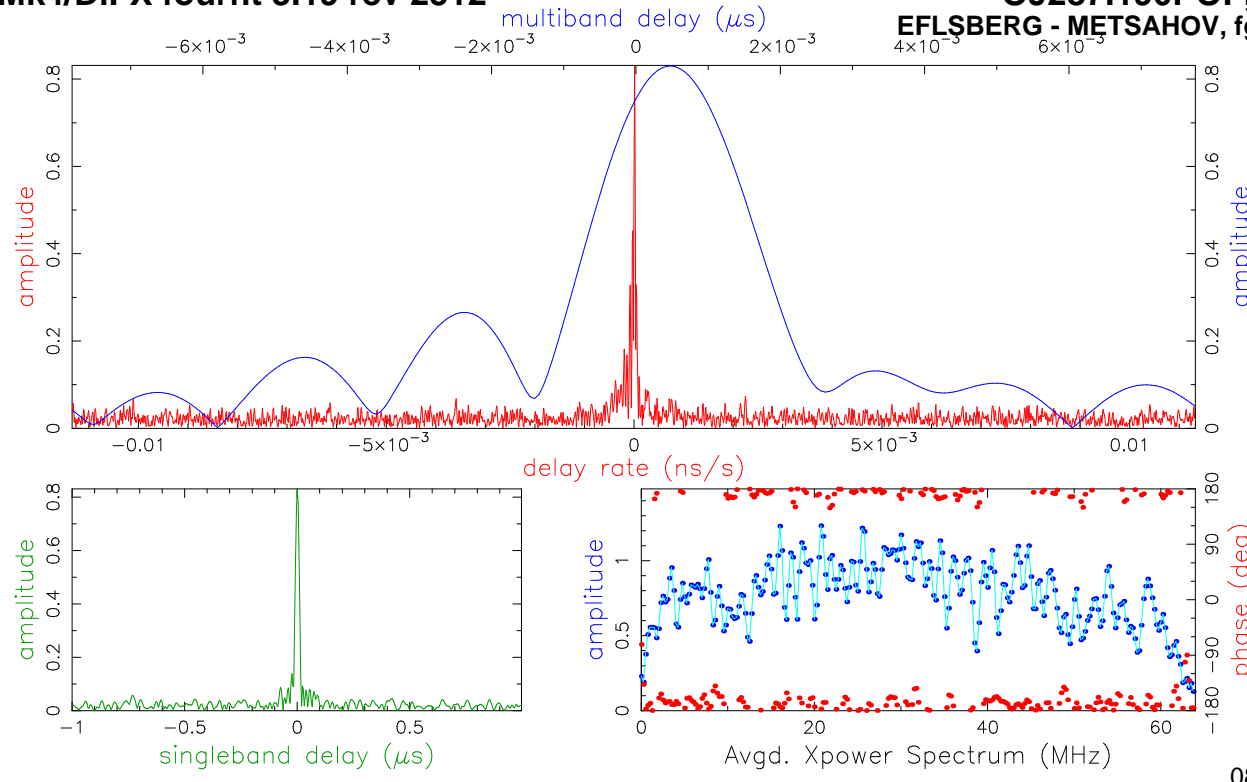
Exp. c201c  
Exper # 16383  
Yr:day 2020:117  
Start 204505.12  
Stop 205219.80  
FRT 204840.00  
Corr/FF/build  
2020:202:063214  
2020:202:210533  
2020:014:135814  
RA & Dec (J2000)  
08h54m48.874928s  
+20°06'30.640850"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-2.53455817431E+03		Apriori delay (usec)		-2.53456095025E+03		Resid mbdelay (usec)		2.77594E-03	+/- 3.8E-05
Sband delay (usec)	-2.53455739000E+03		Apriori clock (usec)		1.0641727E+00		Resid sbdelay (usec)		3.56025E-03	+/- 3.0E-04
Phase delay (usec)	-2.53456094712E+03		Apriori clockrate (us/s)		-4.2000000E-07		Resid phdelay (usec)		3.13720E-06	+/- 1.3E-07
Delay rate (us/s)	-3.99318462601E-02		Apriori rate (us/s)		-3.99318951215E-02		Resid rate (us/s)		4.88614E-08	+/- 5.2E-10
Total phase (deg)	5.5		Apriori accel (us/s/s)		1.82060644109E-05		Resid phase (deg)		97.3	+/- 4.0

ph/seg (deg) 57.4 9.7 Search (2048X32) 0.473 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 58.4 16.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 20.7 5.7 Inc. seg. avg. 0.768 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 30.9 9.9 Inc. frq. avg. 0.518 Sample rate(MISamp/s): 128 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 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) 272.087 1537.469 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/BY..190POF Output file: /Exps/c201c/v1/1234/No0032/BY.W.79.190POF

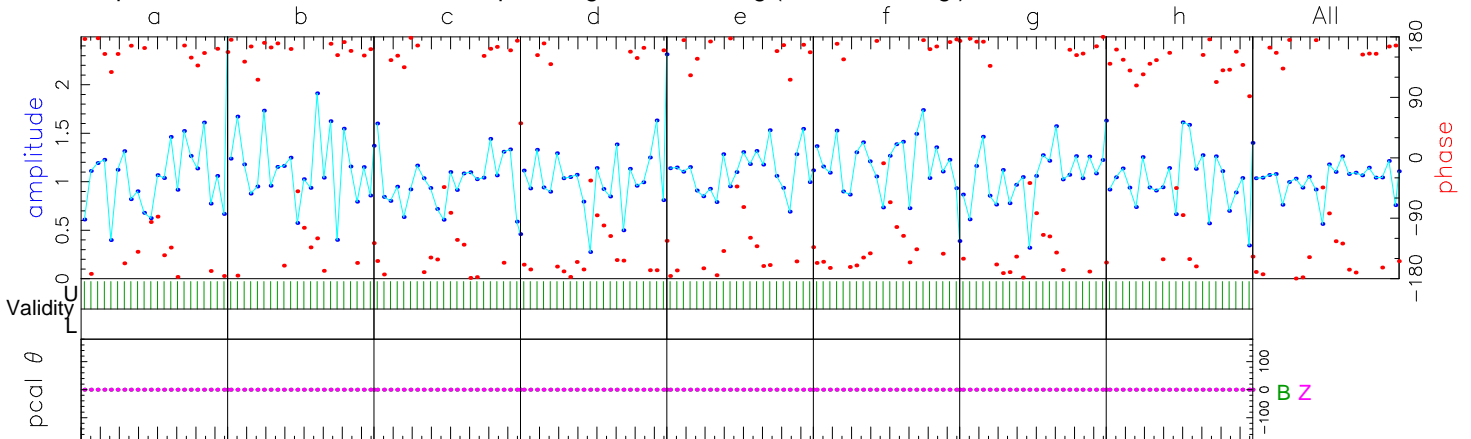


Fringe quality 7

SNR 47.6  
Int time 439.164  
Amp 0.831  
Phase -174.4  
PFD 0.0e+00  
Delays (us)  
SBD 0.000553  
MBD 0.000488  
Fringe rate (Hz)  
0.000530  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

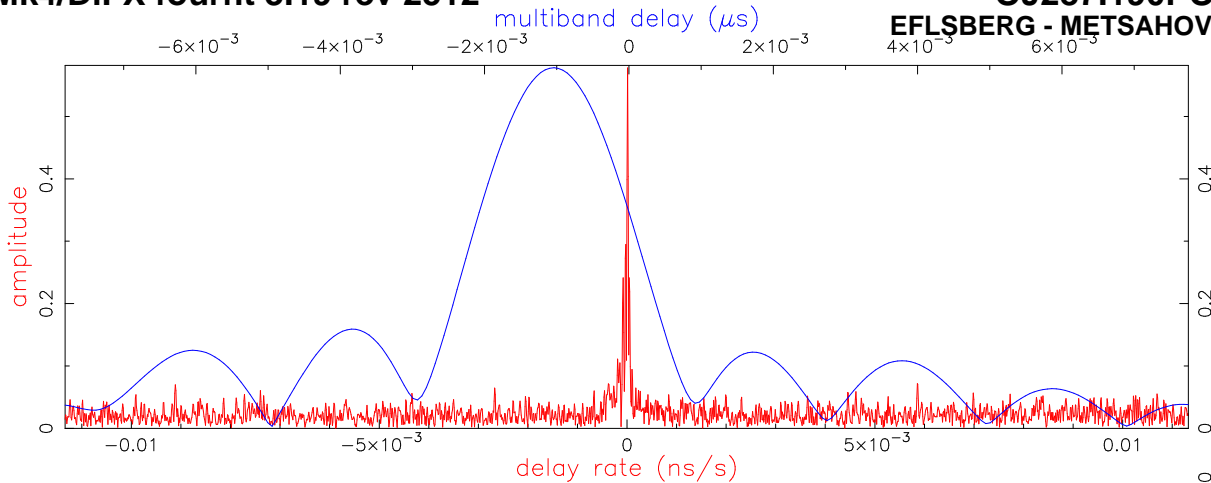
Exp. c201c  
Exper # 16383  
Yr:day 2020:117  
Start 204500.00  
Stop 205219.80  
FRT 204840.00  
Corr/FF/build  
2020:202:063214  
2020:202:210540  
2020:014:135814  
RA & Dec (J2000)  
08h54m48.874928s  
+20°06'30.640850"

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



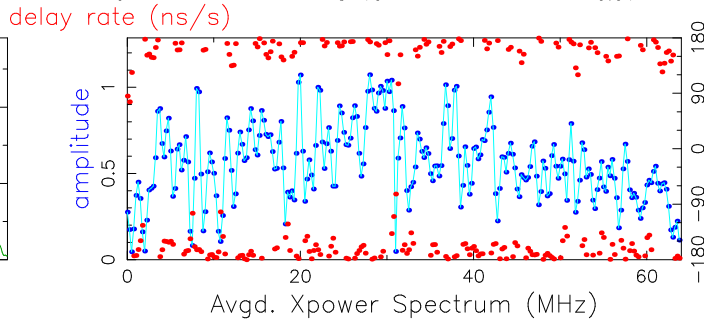
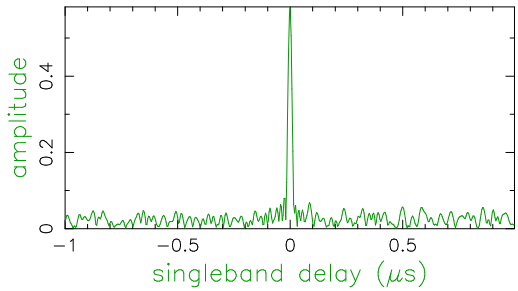
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-179.2	179.9	-173.1	-168.8	-169.3	-158.9	-168.0	155.7	Phase	-174.4
	0.9	0.9	0.8	0.8	0.8	0.9	0.9	0.7	Ampl.	0.8
	257.7	257.0	257.1	257.0	257.5	257.2	256.7	256.3	Sbd box	257.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.72281772206E+03		Apriori delay (usec)		3.72281723428E+03		Resid mbdelay (usec)		4.87777E-04	+/- 2.3E-05
Sband delay (usec)	3.72281778678E+03		Apriori clock (usec)		1.3158489E+01		Resid sbdelay (usec)		5.52500E-04	+/- 1.8E-04
Phase delay (usec)	3.72281722866E+03		Apriori clockrate (us/s)		-2.1600000E-07		Resid phdelay (usec)		-5.62402E-06	+/- 7.8E-08
Delay rate (us/s)	1.32945112732E-02		Apriori rate (us/s)		1.32945051237E-02		Resid rate (us/s)		6.14957E-09	+/- 3.1E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.34456626755E-05		Resid phase (deg)		-174.4	+/- 2.4

ph/seg (deg) 42.1 5.8 Search (2048X32) 0.778 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 29.5 10.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 14.7 3.4 Inc. seg. avg. 1.017 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 8.6 5.9 Inc. frq. avg. 0.847 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 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -118.750 -1472.270 simultaneous interpolator



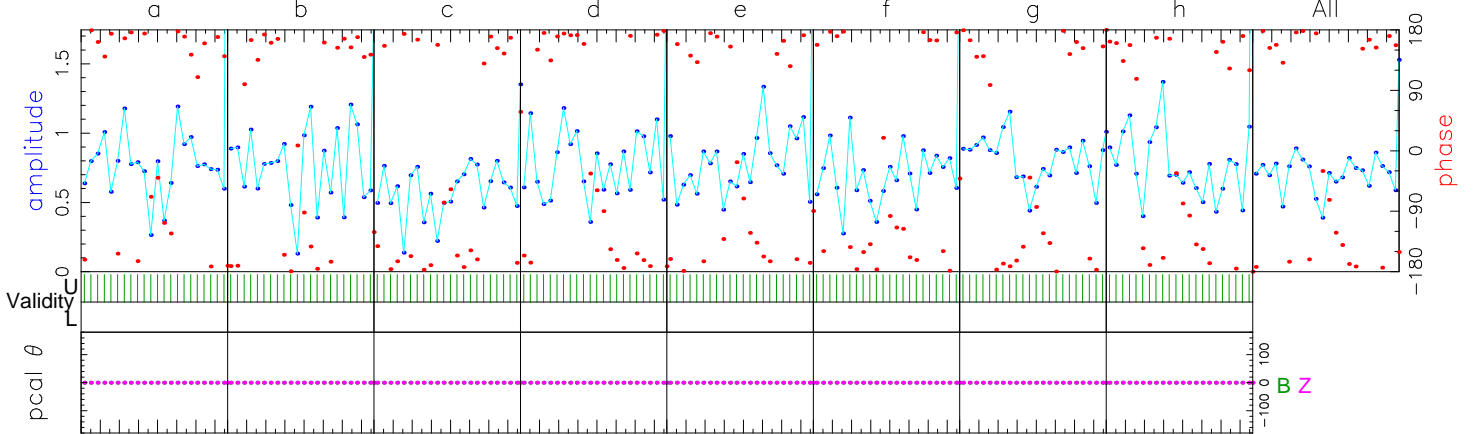
Fringe quality 8

SNR 33.3  
Int time 439.164  
Amp 0.582  
Phase -178.2  
PFD 0.0e+00  
Delays (us)  
SBD -0.001119  
MBD -0.001069  
Fringe rate (Hz)  
0.000532  
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"

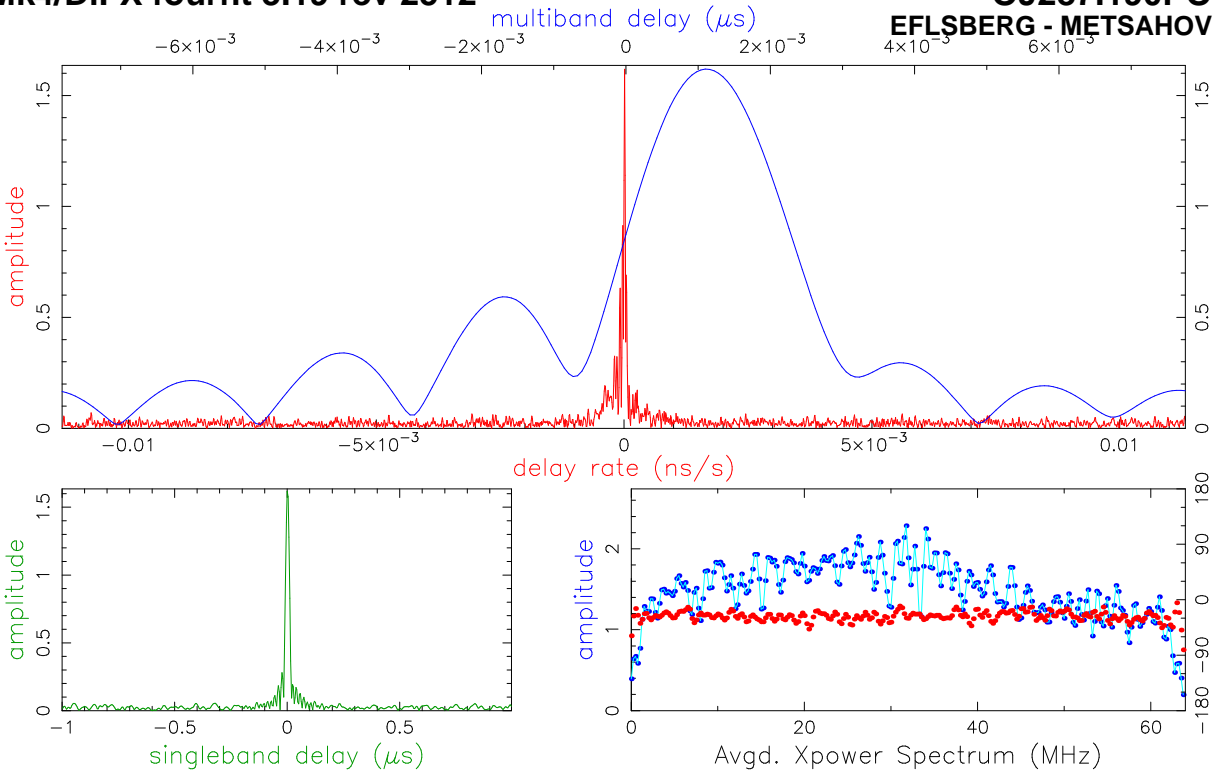
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	175.2	173.7	-174.6	-172.3	-174.9	-161.9	177.6	173.7	Phase	-178.2
	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.5	Ampl.	0.6
	256.6	256.7	257.2	256.8	256.9	256.9	256.6	255.5	Sbd box	256.7
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	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.72281616537E+03		Apriori delay (usec)		3.72281723428E+03		Resid mbdelay (usec)		-1.06891E-03	+/- 3.3E-05
Sband delay (usec)	3.72281611553E+03		Apriori clock (usec)		1.3158489E+01		Resid sbdelay (usec)		-1.11875E-03	+/- 2.6E-04
Phase delay (usec)	3.72281722854E+03		Apriori clockrate (us/s)		-2.1600000E-07		Resid phdelay (usec)		-5.74580E-06	+/- 1.1E-07
Delay rate (us/s)	1.32945112973E-02		Apriori rate (us/s)		1.32945051237E-02		Resid rate (us/s)		6.17366E-09	+/- 4.4E-10
Total phase (deg)	23.8		Apriori accel (us/s/s)		-2.34456626755E-05		Resid phase (deg)		-178.2	+/- 3.4

ph/seg (deg) 45.2 8.2 Search (2048X32) 0.540 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 29.7 14.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 9.3 4.9 Inc. seg. avg. 0.696 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 9.2 8.5 Inc. frq. avg. 0.581 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 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -118.750 -1472.270 simultaneous interpolator



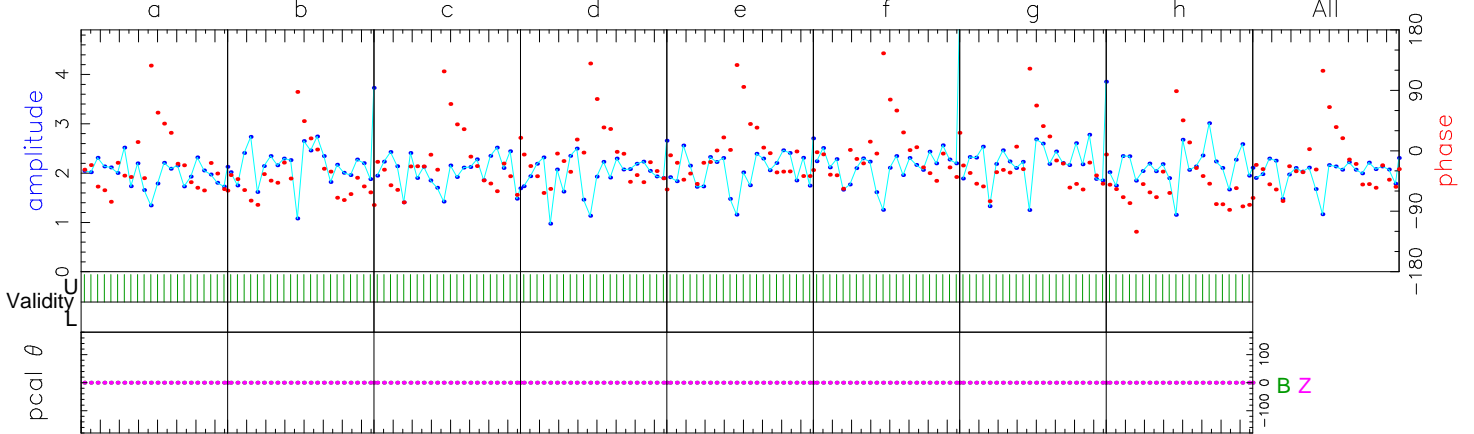


Fringe quality 5

SNR 93.7  
Int time 439.164  
Amp 1.636  
Phase -25.2  
PFD 0.0e+00  
Delays (us)  
SBD 0.001364  
MBD 0.001149  
Fringe rate (Hz) 0.000496  
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  
2020:202:210530  
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



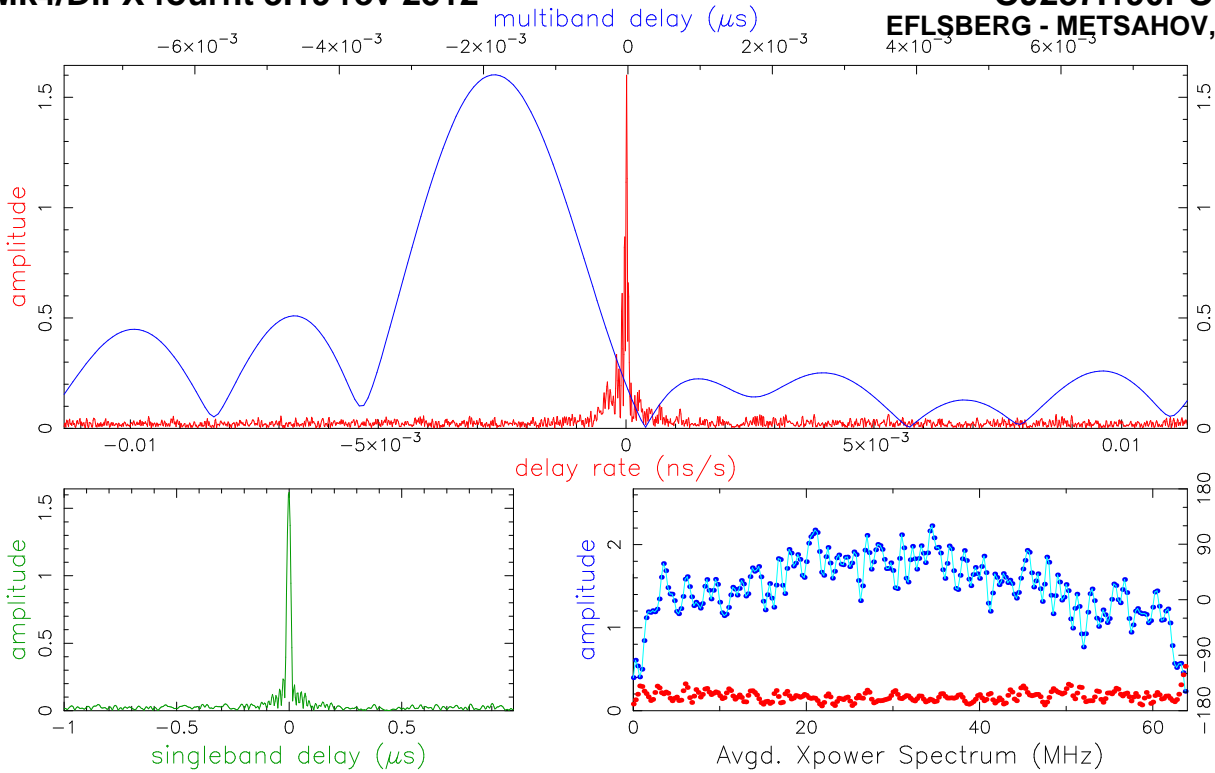
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-27.2	-38.1	-24.2	-14.5	-9.6	-8.0	-23.9	-55.7	Phase	-25.2
	1.6	1.8	1.6	1.6	1.7	1.7	1.8	1.7	Ampl.	1.7
	257.5	257.2	257.8	257.4	257.2	257.3	256.9	256.4	Sbd box	257.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	3.72281838318E+03	Apriori delay (usec)	3.72281723428E+03	Resid mbdelay (usec)	1.14890E-03	+/-	1.2E-05
Sband delay (usec)	3.72281859828E+03	Apriori clock (usec)	1.3158489E+01	Resid sbdelay (usec)	1.36400E-03	+/-	9.2E-05
Phase delay (usec)	3.72281723347E+03	Apriori clockrate (us/s)	-2.1600000E-07	Resid phdelay (usec)	-8.11609E-07	+/-	3.9E-08
Delay rate (us/s)	1.32945108764E-02	Apriori rate (us/s)	1.32945051237E-02	Resid rate (us/s)	5.75278E-09	+/-	1.6E-10
Total phase (deg)	176.8	Apriori accel (us/s/s)	-2.34456626755E-05	Resid phase (deg)	-25.2	+/-	1.2

ph/seg (deg)	44.1	RMS	2.9	Theor.	1.636 +/- 0.017	Search (2048X32)	1.488	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	27.2	44.1	2.9	44.1	2.9	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	17.1	17.1	1.7	17.1	1.7	Inc. seg. avg.	1.994	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	5.2	5.2	3.0	5.2	3.0	Inc. frq. avg.	1.673	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

B: az 239.9 el 46.7 pa 35.9 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -118.750 -1472.270 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/BZ..190POF Output file: /Exps/c201c/v1/1234/No0032/BZ.W.70.190POF

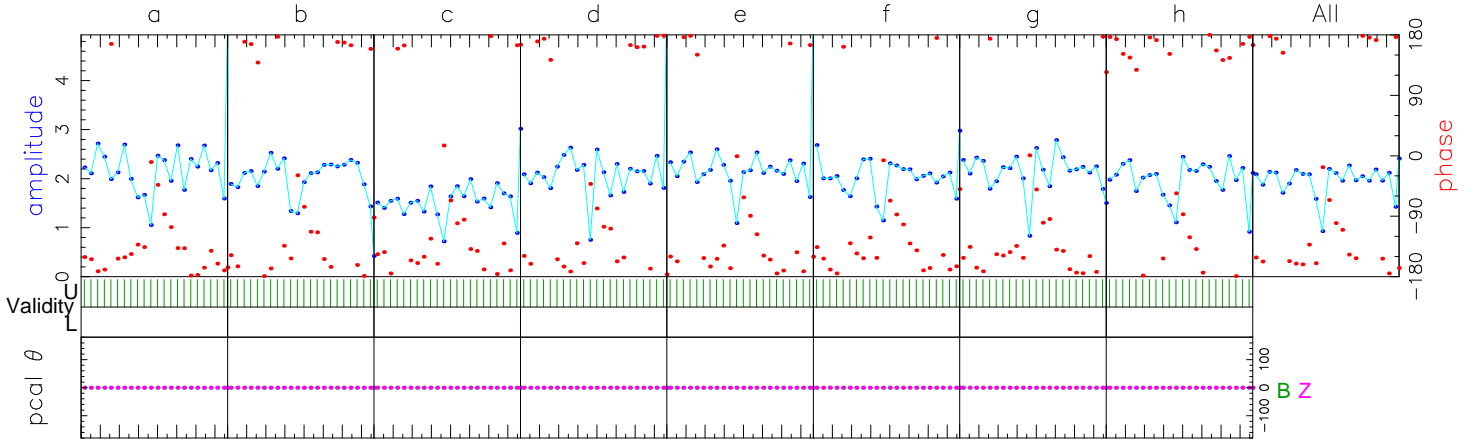


Fringe quality 5

SNR 94.3  
Int time 439.164  
Amp 1.645  
Phase -157.0  
PFD 0.0e+00  
Delays (us)  
SBD -0.001690  
MBD -0.001793  
Fringe rate (Hz) 0.000515  
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  
2020:202:210534  
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
	-147.9	-165.8	-150.0	-162.5	-156.7	-144.1	-147.7	177.8	Phase	-157.0
	1.8	1.6	1.2	1.7	1.7	1.6	1.8	1.6	Ampl.	1.6
	256.4	256.7	256.9	256.2	256.6	256.7	256.5	255.9	Sbd box	256.6
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	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.72281544097E+03		Apriori delay (usec)		3.72281723428E+03		Resid mbdelay (usec)		-1.79332E-03	+/- 1.2E-05
Sband delay (usec)	3.72281554378E+03		Apriori clock (usec)		1.3158489E+01		Resid sbdelay (usec)		-1.69050E-03	+/- 9.1E-05
Phase delay (usec)	3.72281722922E+03		Apriori clockrate (us/s)		-2.1600000E-07		Resid phdelay (usec)		-5.06317E-06	+/- 3.9E-08
Delay rate (us/s)	1.32945110968E-02		Apriori rate (us/s)		1.32945051237E-02		Resid rate (us/s)		5.97314E-09	+/- 1.5E-10
Total phase (deg)	45.0		Apriori accel (us/s/s)		-2.34456626755E-05		Resid phase (deg)		-157.0	+/- 1.2

ph/seg (deg) 43.4 2.9 Amplitude 1.645 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 26.1 5.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 13.7 1.7 Inc. seg. avg. 1.950 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 10.3 3.0 Inc. frq. avg. 1.634 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 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -118.750 -1472.270 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c201c/v1/1234/No0032/BZ..190POF Output file: /Exps/c201c/v1/1234/No0032/BZ.W.83.190POF