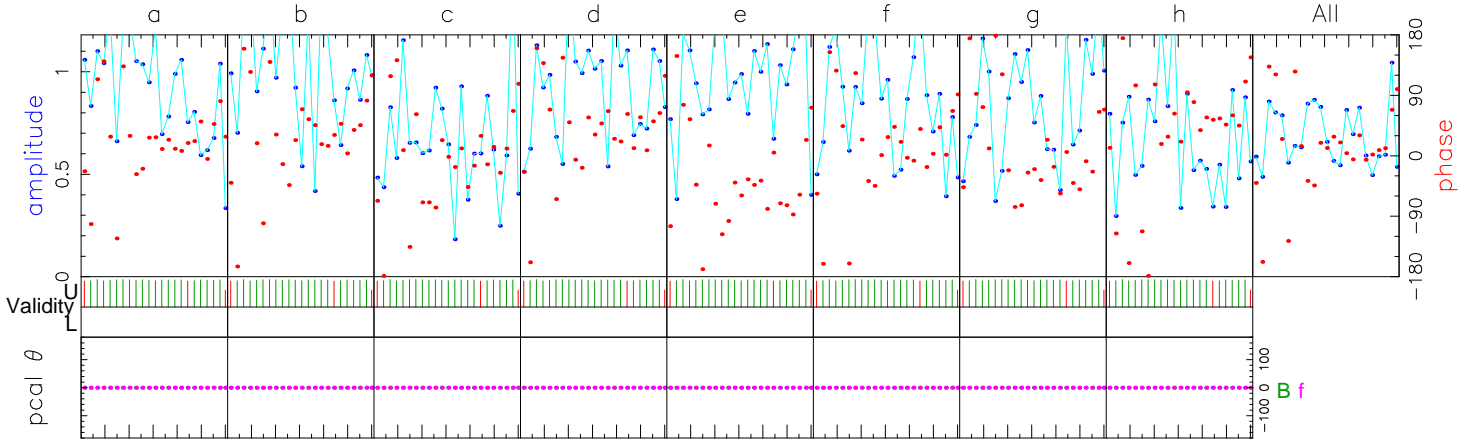


Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

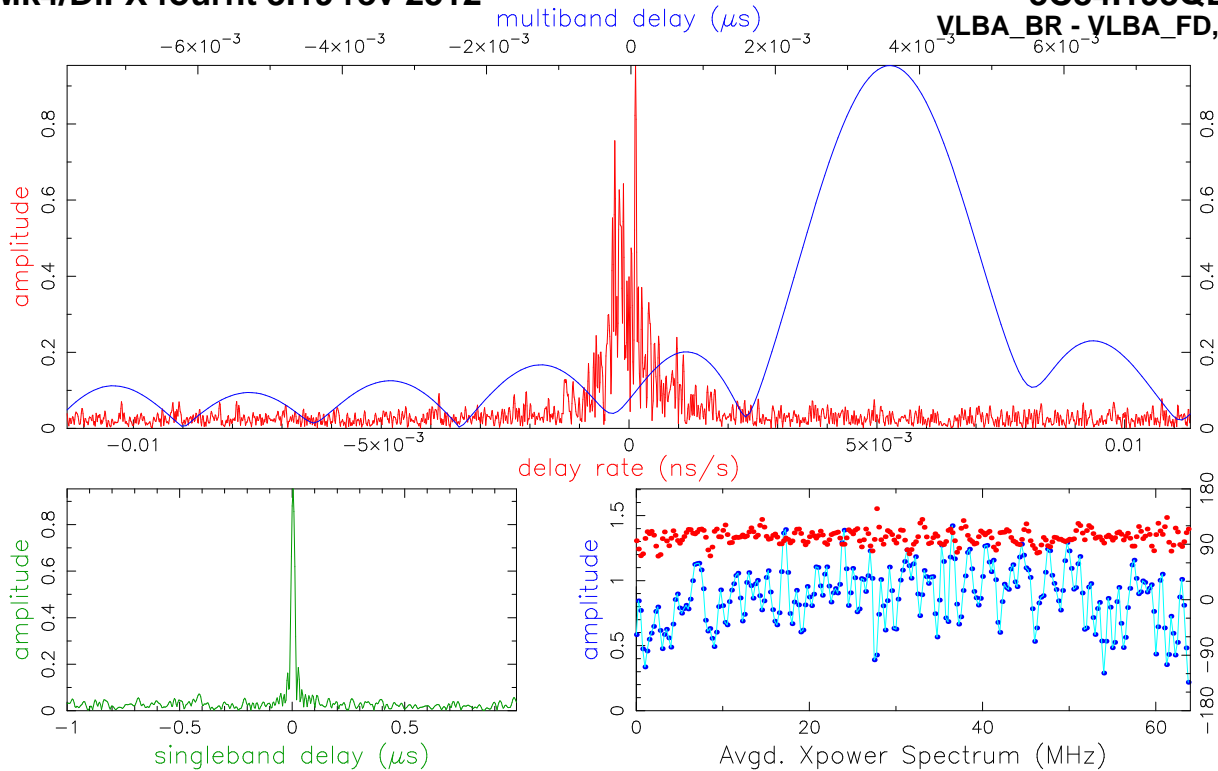


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
26.8	39.1	6.7	47.0	-52.2	23.8	-6.2	74.4	74.4	Phase	20.0
0.5	0.5	0.3	0.6	0.6	0.4	0.5	0.4	0.4	Ampl.	0.5
256.0	256.5	257.0	256.8	256.9	256.9	257.4	258.1	258.1	Sbd box	256.5
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-1.89213847939E+03		Apriori delay (usec)	-1.89214250903E+03	Resid mbdelay (usec)	4.02964E-03	+/-	5.4E-05		
Sband delay (usec)	-1.89214428528E+03		Apriori clock (usec)	9.1071491E+00	Resid sbdelay (usec)	-1.77625E-03	+/-	4.3E-04		
Phase delay (usec)	-1.89214250839E+03		Apriori clockrate (us/s)	-3.0900000E-07	Resid phdelay (usec)	6.43521E-07	+/-	1.8E-07		
Delay rate (us/s)	-1.38016244352E+00		Apriori rate (us/s)	-1.38016245454E+00	Resid rate (us/s)	1.10202E-08	+/-	8.8E-10		
Total phase (deg)		-242.2	Apriori accel (us/s/s)	2.97509557278E-05	Resid phase (deg)	20.0	+/-	5.7		

	RMS	Theor.	Amplitude	0.393 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	68.7	13.7	Search (2048X32)	0.382	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	84.2	23.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	41.2	8.1	Inc. seg. avg.	0.672	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	29.8	14.1	Inc. frq. avg.	0.463	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

B: az 284.8 el 45.4 pa 55.3 f: az 60.3 el 52.1 pa -91.3 u,v (fr/asec) 10600.145 3739.863 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Bf..193QBF Output file: /Exps/c201d/v1/1234/No0057/Bf.W.16.193QBF

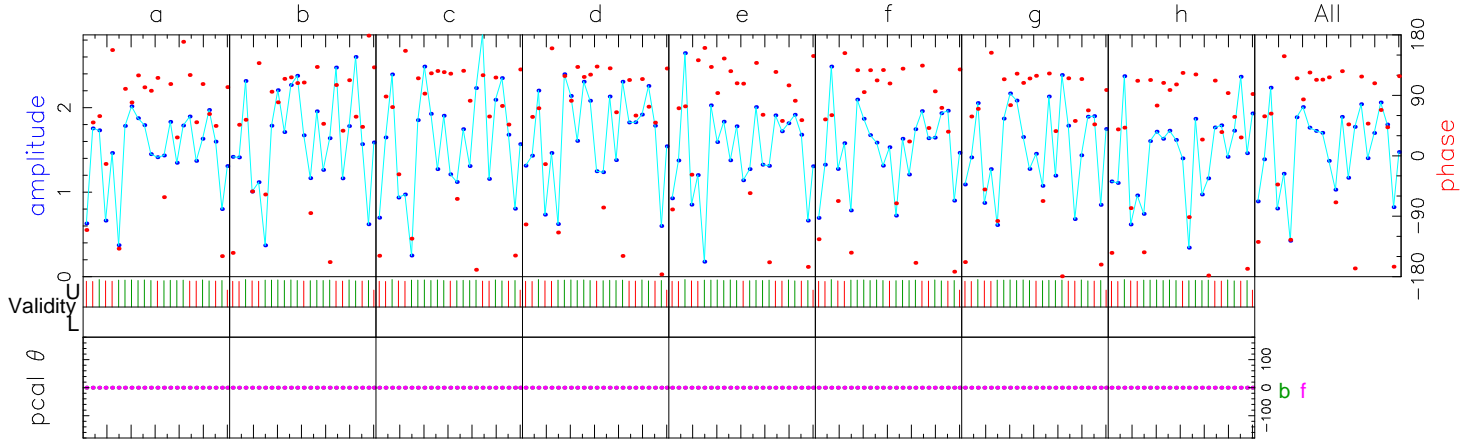


Fringe quality 5

SNR 48.5
Int time 345.259
Amp 0.954
Phase 101.9
PFD 0.0e+00
Delays (us)
SBD 0.003629
MBD 0.003580
Fringe rate (Hz) 0.011740
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122446
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

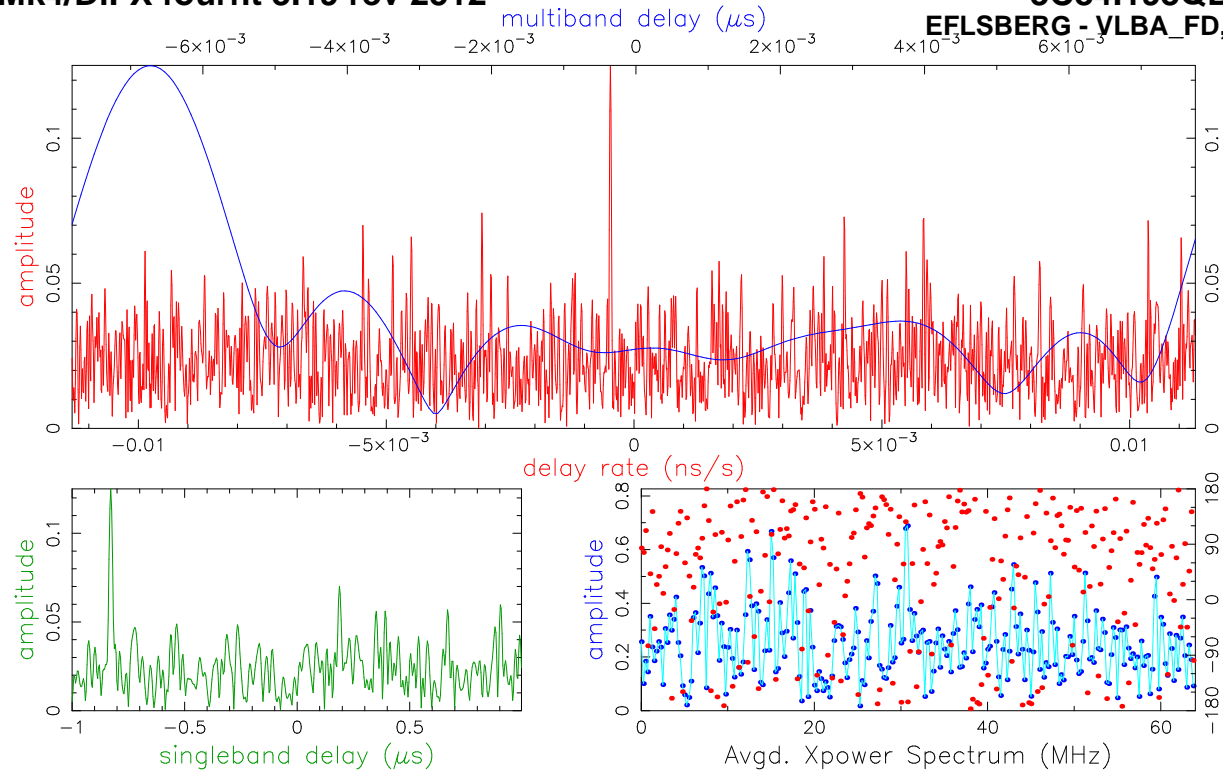
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
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)	-1.18869503413E+03				-1.18869861388E+03				3.57975E-03	+/- 2.2E-05
Sband delay (usec)	-1.18869498463E+03				-5.3325319E+00				3.62925E-03	+/- 1.8E-04
Phase delay (usec)	-1.18869861059E+03				-1.5100001E-07				3.28752E-06	+/- 7.6E-08
Delay rate (us/s)	-2.89424196232E-02				-2.89425559185E-02				1.36295E-07	+/- 3.7E-10
Total phase (deg)			-113.8		2.38899815728E-05				101.9	+/- 2.4
	RMS	Theor.	Amplitude	0.954 +/- 0.020	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	72.8	5.7	Search (2048X32)	0.929	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	76.2	9.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	7.8	3.3	Inc. seg. avg.	1.501	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	7.4	5.8	Inc. frq. avg.	0.959	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

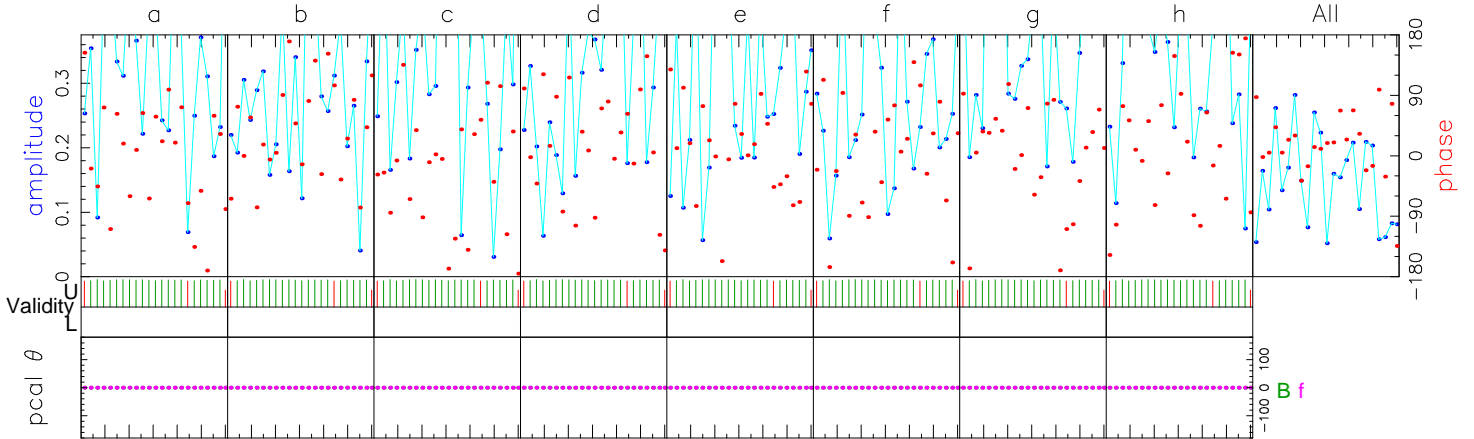
b: az 75.0 el 47.2 pa -59.5 f: az 60.3 el 52.1 pa -91.3 u,v (fr/asec) 248.196 3220.918 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bf..193QBF Output file: /Exps/c201d/v1/1234/No0057/bf.W.25.193QBF



Fringe quality 0
SNR 6.4
Int time 349.972
Amp 0.125
Phase 19.0
PFD 4.4e-02
Delays (us)
SBD -0.828186
MBD -0.006731
Fringe rate (Hz)
-0.040835
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122447
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

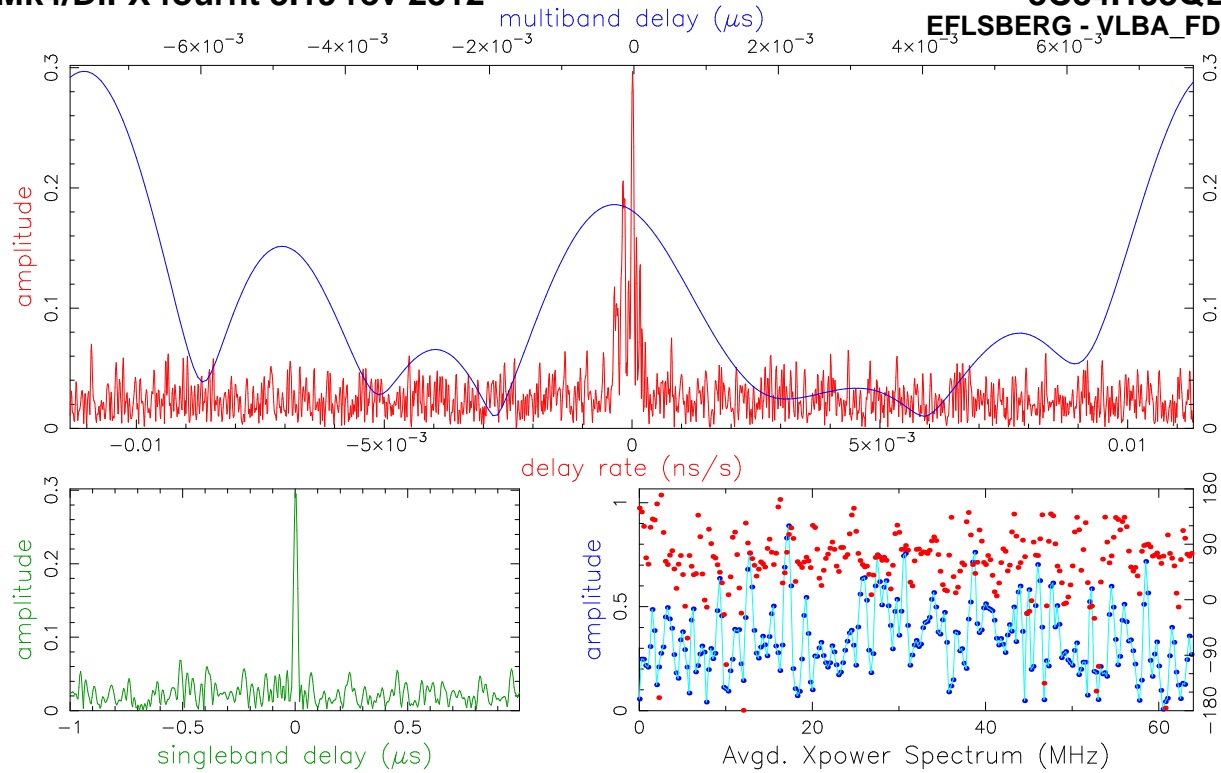
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
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)	-1.89297736467E+03				-1.89214250903E+03				-6.73064E-03	+/- 1.7E-04
Sband delay (usec)	-1.89297069528E+03				9.1071491E+00				-8.28186E-01	+/- 1.3E-03
Phase delay (usec)	-1.89214250842E+03				-3.0900000E-07				6.13062E-07	+/- 5.8E-07
Delay rate (us/s)	-1.38016292860E+00				-1.38016245454E+00				-4.74057E-07	+/- 2.8E-09
Total phase (deg)			-243.1		2.97509557278E-05				19.0	+/- 17.9
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
PC period (AP's) 5, 5										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00
ph/seg (deg)	44.7	43.0			0.125 +/- 0.020					
amp/seg (%)	59.4	75.0			0.000					
ph/frq (deg)	28.5	25.3			0.118					
amp/frq (%)	32.1	44.2			0.123					
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
nlags: 256										
t_cohere infinite										
simultaneous interpolator										

Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, Bf
EFLSBERG - VLBA_FD, fgroup W, pol LL

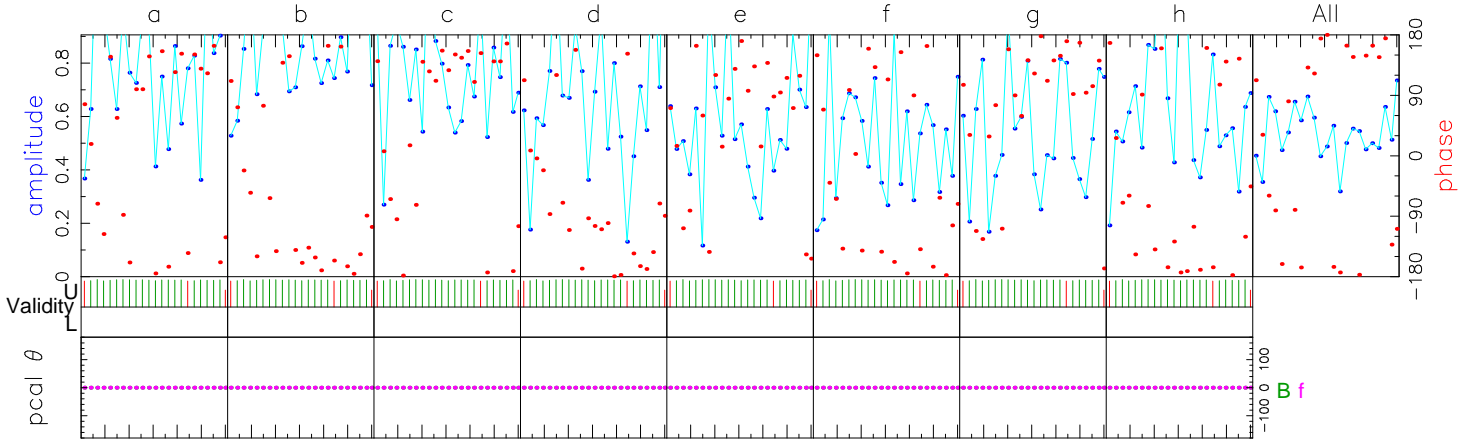


Fringe quality 8

SNR 15.4
Int time 349.970
Amp 0.302
Phase 178.7
PFD 5.6e-45
Delays (us)
SBD 0.001762
MBD -0.007589
Fringe rate (Hz)
0.001124
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122440
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

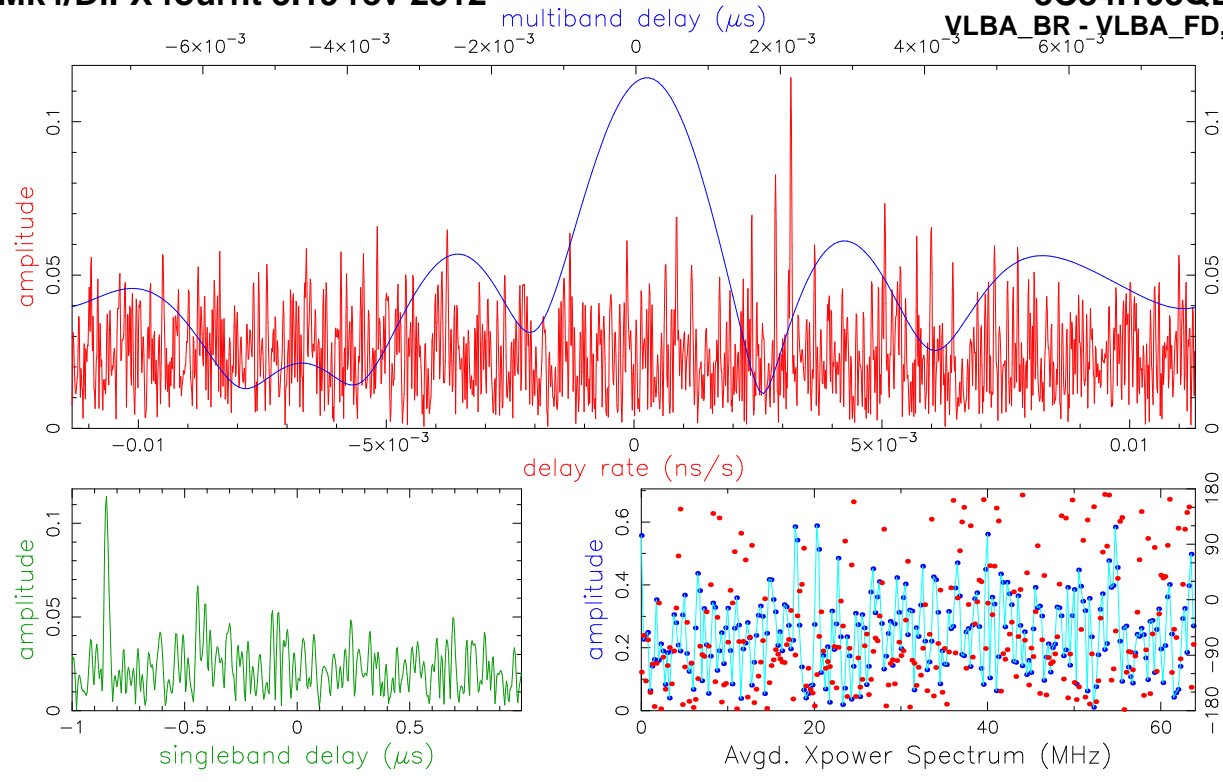
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
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)	-1.89213447292E+03									
Sband delay (usec)	-1.89214074728E+03									
Phase delay (usec)	-1.89214250327E+03									
Delay rate (us/s)	-1.38016244150E+00									
Total phase (deg)			-83.5							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Sample rate(MISamp/s):	128									
Data rate(Mb/s):	2048									
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								

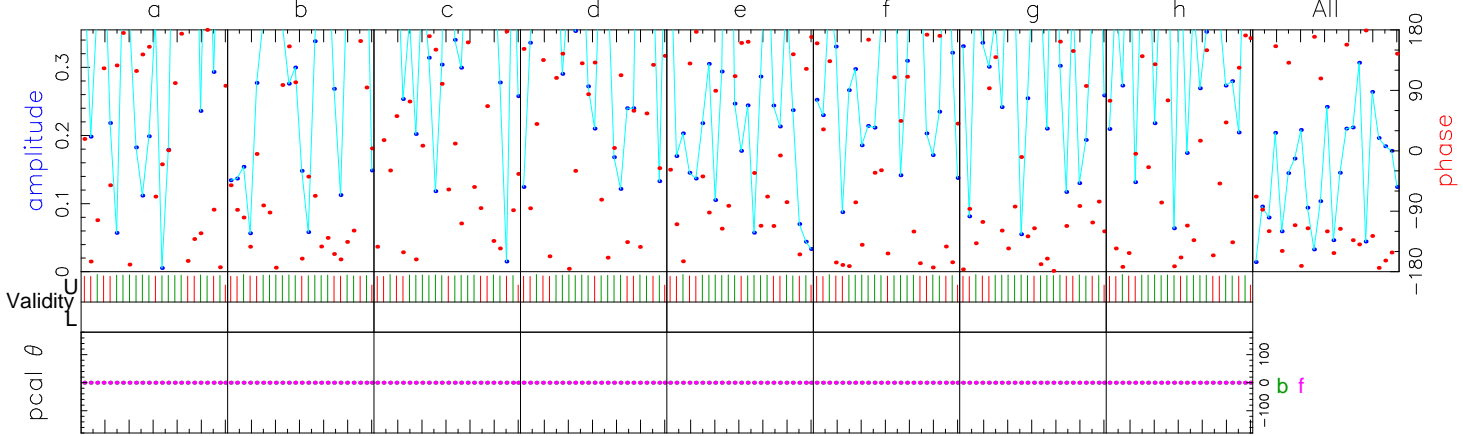
B: az 284.8 el 45.4 pa 55.3 f: az 60.3 el 52.1 pa -91.3 u,v (fr/asec) 10600.145 3739.863 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Bf..193QBF Output file: /Exps/c201d/v1/1234/No0057/Bf.W.4.193QBF



Fringe quality 0
SNR 5.8
Int time 345.258
Amp 0.118
Phase -153.8
PFD 7.6e-01
Delays (us)
SBD -0.848337
MBD 0.000142
Fringe rate (Hz) 0.272957
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122449
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

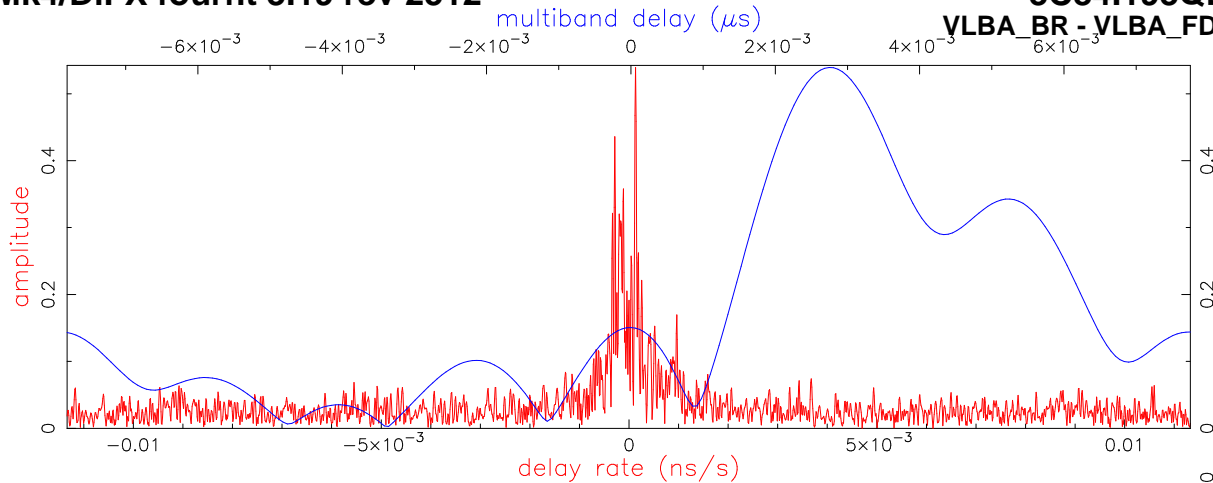


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-176.2	-142.3	-65.7	148.5	-95.7	-170.7	-144.8	-169.4	Phase	-153.8
	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1	Ampl.	0.1
	38.2	260.8	333.7	181.0	339.4	369.4	40.2	144.1	Sbd box	39.8
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	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	PC amp	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-1.18954222195E+03	Apriori delay (usec)	-1.18869861388E+03	Resid mbdelay (usec)	1.41921E-04	+/-	1.9E-04
Sband delay (usec)	-1.18954695138E+03	Apriori clock (usec)	-5.3325319E+00	Resid sbdelay (usec)	-8.48337E-01	+/-	1.5E-03
Phase delay (usec)	-1.18869861883E+03	Apriori clockrate (us/s)	-1.5100001E-07	Resid phdelay (usec)	-4.95819E-06	+/-	6.3E-07
Delay rate (us/s)	-2.89393871567E-02	Apriori rate (us/s)	-2.89425559185E-02	Resid rate (us/s)	3.16876E-06	+/-	3.1E-09
Total phase (deg)	-9.5	Apriori accel (us/s/s)	2.38899815728E-05	Resid phase (deg)	-153.8	+/-	19.7

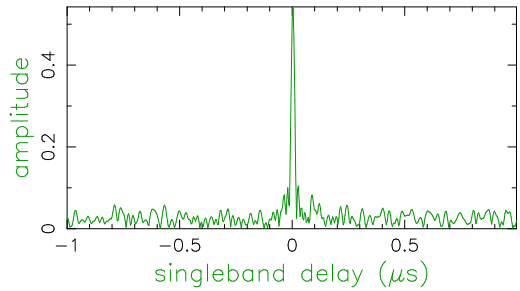
ph/seg (deg)	44.9	Theor.	47.2	Search (2048X32)	0.112	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	73.8		82.3	Interp.	0.000	PCal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	51.1		27.8	Inc. seg. avg.	0.113	Bits/sample: 2x2	Sample rate(MSamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	39.2		48.6	Inc. frq. avg.	0.132	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 75.0 el 47.2 pa -59.5 f: az 60.3 el 52.1 pa -91.3 u,v (fr/asec) 248.196 3220.918 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bf..193QBF Output file: /Exps/c201d/v1/1234/No0057/bf.W.44.193QBF

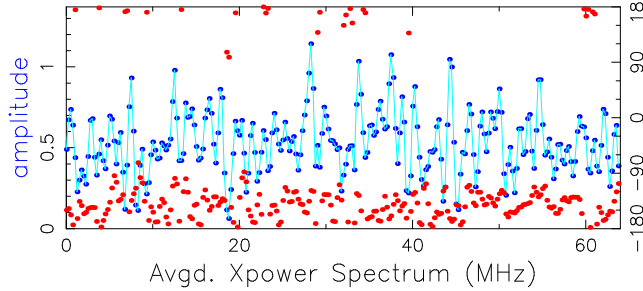


Fringe quality 5

SNR 27.6
Int time 345.256
Amp 0.542
Phase -142.2
PFD 0.0e+00
Delays (us)
SBD 0.002964
MBD 0.002742
Fringe rate (Hz)
0.011757
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

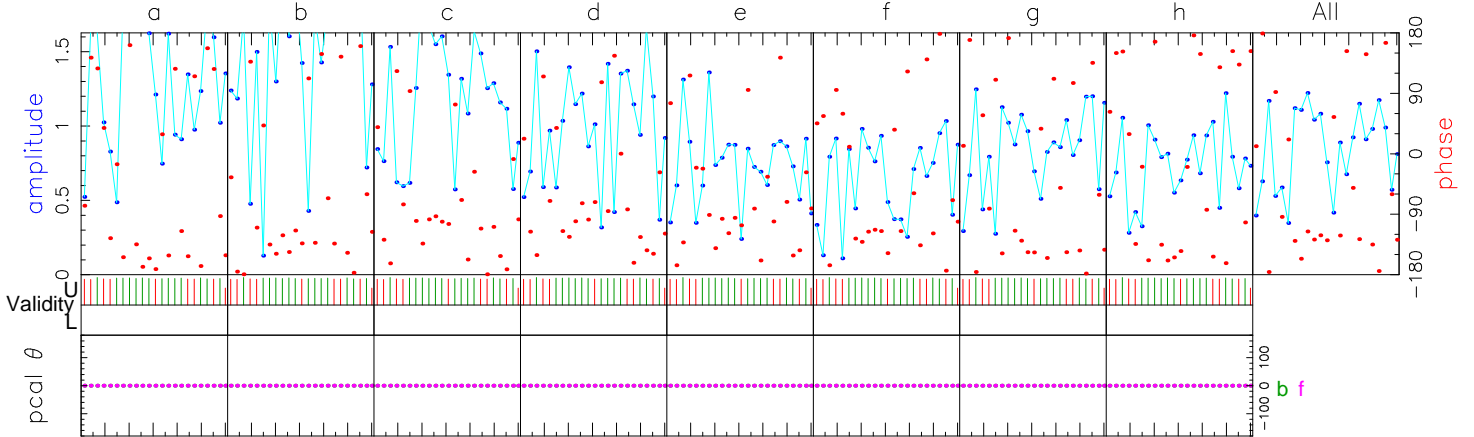


delay rate (ns/s)



Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122440
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

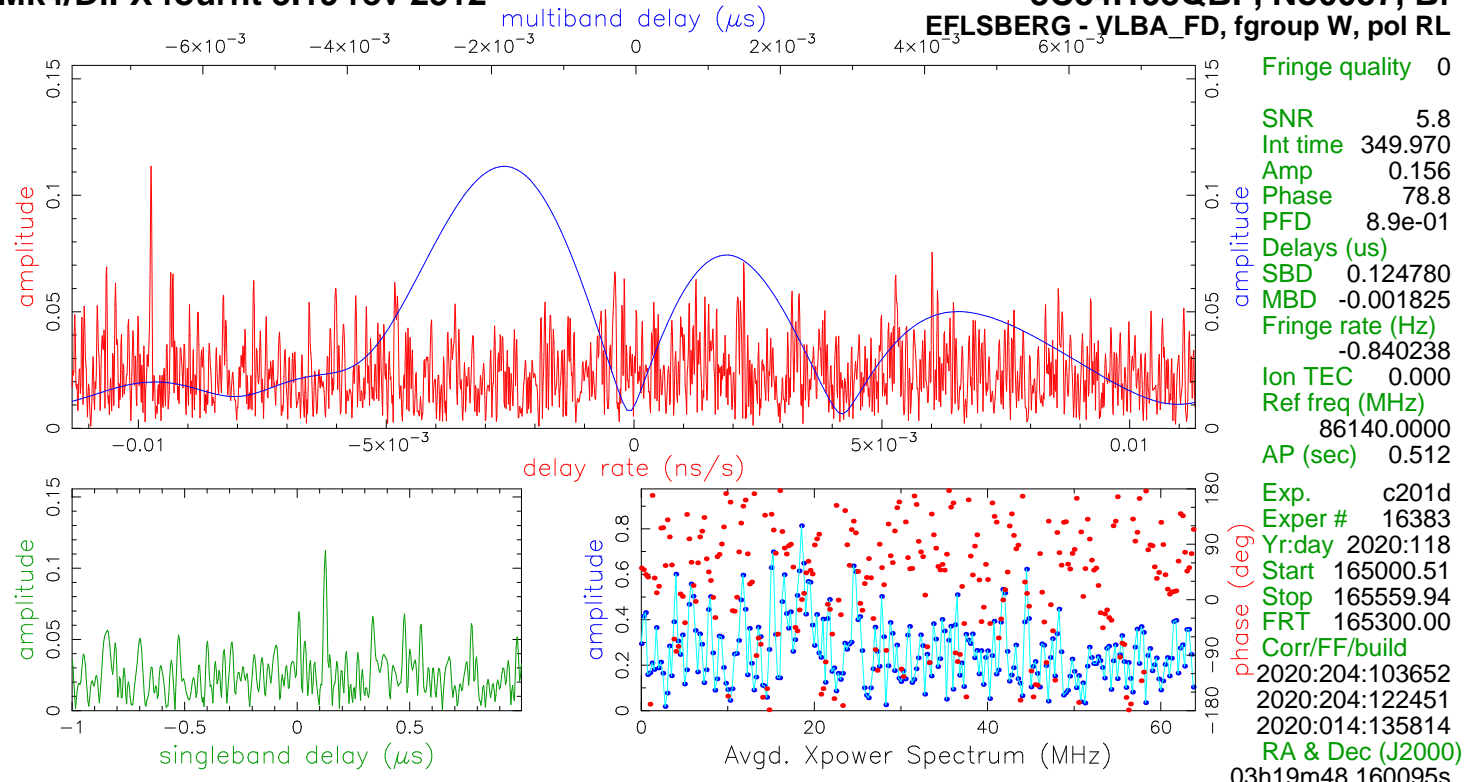


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-176.5	-145.9	-114.9	-107.8	-111.0	-136.6	-160.9	-170.7	Phase	-142.2
	0.8	1.0	0.7	0.6	0.4	0.3	0.5	0.4	Ampl.	0.6
	257.9	258.2	258.0	257.6	257.2	257.3	257.9	257.1	Sbd box	257.8
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	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	PC amp	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

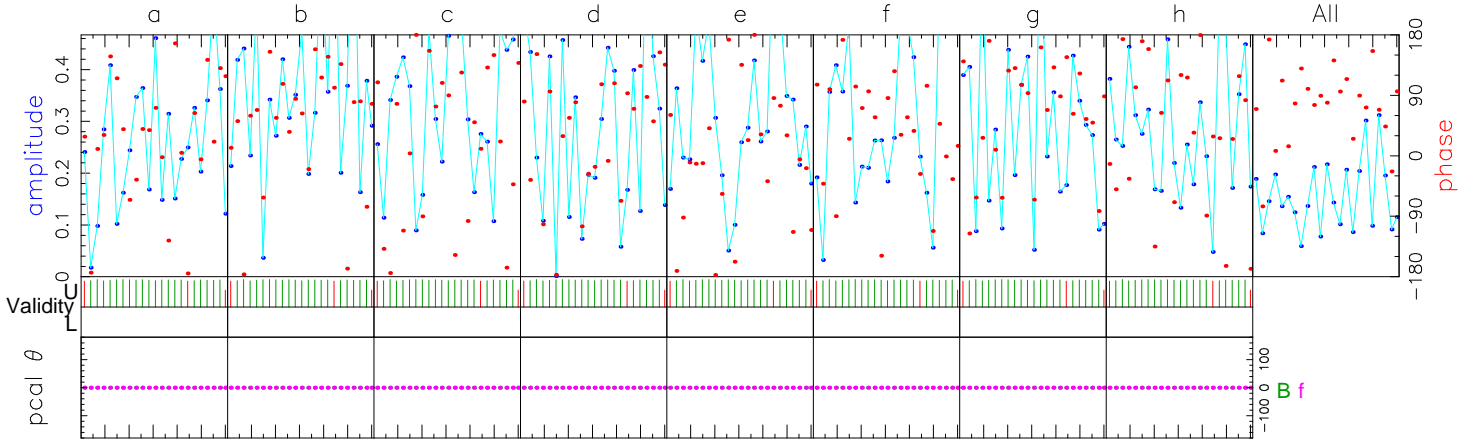
Group delay (usec)(sbd)	-1.18869587219E+03	Apriori delay (usec)	-1.18869861388E+03	Resid mbdelay (usec)	2.74169E-03	+/-	3.9E-05
Sband delay (usec)	-1.18869564963E+03	Apriori clock (usec)	-5.3325319E+00	Resid sbdelay (usec)	2.96425E-03	+/-	3.1E-04
Phase delay (usec)	-1.18869861846E+03	Apriori clockrate (us/s)	-1.5100001E-07	Resid phdelay (usec)	-4.58640E-06	+/-	1.3E-07
Delay rate (us/s)	-2.89424194312E-02	Apriori rate (us/s)	-2.89425559185E-02	Resid rate (us/s)	1.36487E-07	+/-	6.5E-10
Total phase (deg)	-357.9	Apriori accel (us/s/s)	2.38899815728E-05	Resid phase (deg)	-142.2	+/-	4.2

ph/seg (deg)	RMS 75.2	Theor. 10.0	Amplitude Search (2048X32)	0.522	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	75.9	17.4	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)	29.7	5.9	Inc. seg. avg.	0.837	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	43.9	10.3	Inc. frq. avg.	0.594	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

b: az 75.0 el 47.2 pa -59.5 f: az 60.3 el 52.1 pa -91.3 u,v (fr/asec) 248.196 3220.918 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bf..193QBF Output file: /Exps/c201d/v1/1234/No0057/bf.W.5.193QBF



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

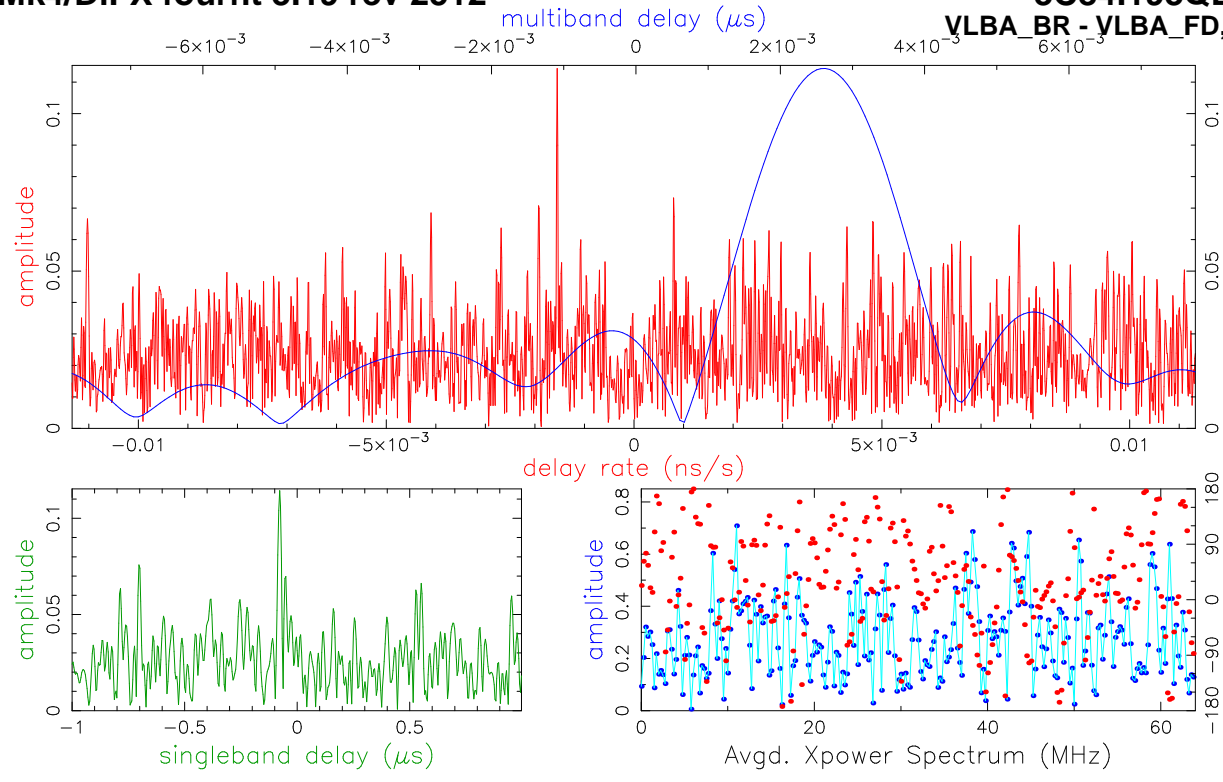


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
53.6	95.5	134.2	70.5	24.0	43.5	103.3	112.1		Phase	78.8
0.1	0.3	0.1	0.2	0.1	0.2	0.2	0.1		Ampl.	0.2
40.8	288.8	436.7	75.5	507.2	287.8	428.8	245.5		Sbd box	288.9
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0		APs used	
B	1000	1000	1000	1000	1000	1000	1000		PC freqs	
f	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		PC phase	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC	
B	1000	1000	1000	1000	1000	1000	1000		PC amp	
f	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	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.89201933447E+03		Apriori delay (usec)	-1.89214250903E+03	Resid mbdelay (usec)	-1.82543E-03	+/-	1.9E-04		
Sband delay (usec)	-1.89201772878E+03		Apriori clock (usec)	9.1071491E+00	Resid sbdelay (usec)	1.24780E-01	+/-	1.5E-03		
Phase delay (usec)	-1.89214250649E+03		Apriori clockrate (us/s)	-3.0900000E-07	Resid phdelay (usec)	2.54099E-06	+/-	6.4E-07		
Delay rate (us/s)	-1.38017220888E+00		Apriori rate (us/s)	-1.38016245454E+00	Resid rate (us/s)	-9.75433E-06	+/-	3.1E-09		
Total phase (deg)		-183.3	Apriori accel (us/s/s)	2.97509557278E-05	Resid phase (deg)	78.8	+/-	19.9		

	RMS	Theor.	Amplitude	0.156 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5
ph/seg (deg)	56.6	47.8	Search (2048X32)	0.111	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
amp/seg (%)	70.8	83.4	Interp.	0.000	Bits/sample: 2x2	mb window (us)	-0.008 0.008
ph/frq (deg)	40.8	28.2	Inc. seg. avg.	0.161	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011 0.011
amp/frq (%)	49.2	49.2	Inc. frq. avg.	0.162	Data rate(Mb/s): 2048	ion window (TEC)	0.00 0.00

B: az 284.8 el 45.4 pa 55.3 f: az 60.3 el 52.1 pa -91.3 u,v (fr/asec) 10600.145 3739.863 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Bf..193QBF Output file: /Exps/c201d/v1/1234/No0057/Bf.W.55.193QBF

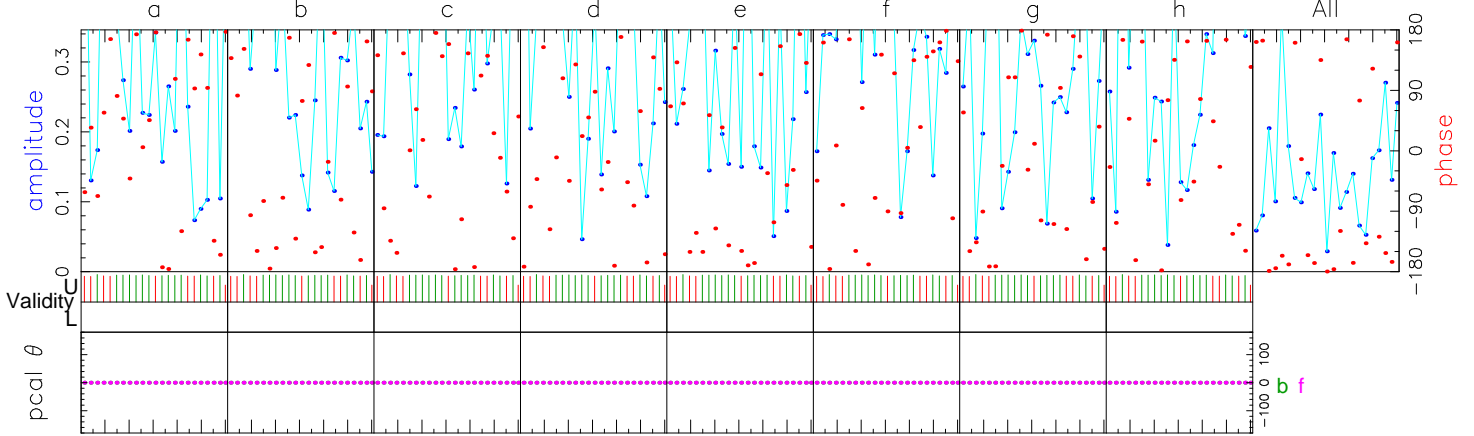


Fringe quality 0

SNR 5.8
Int time 345.257
Amp 0.115
Phase -174.7
PFD 7.8e-01
Delays (us)
SBD -0.077769
MBD 0.002617
Fringe rate (Hz)
-0.133553
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122453
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

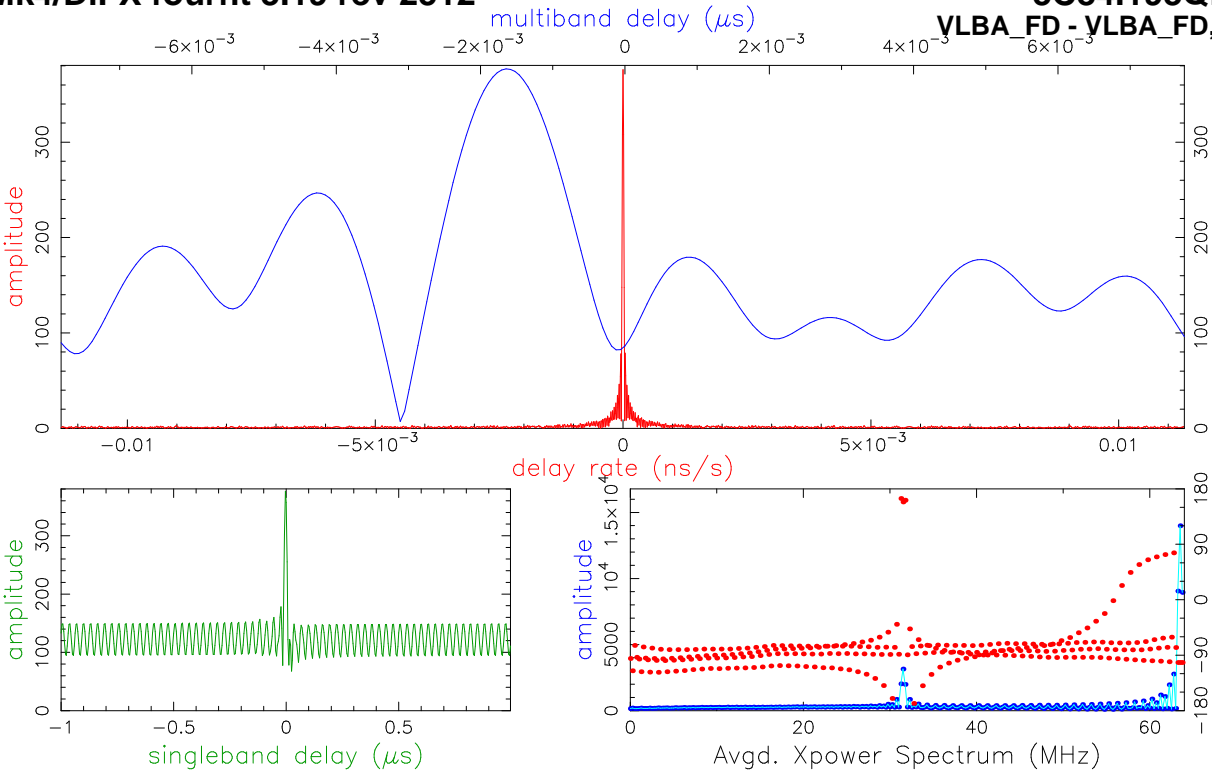
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.18877412237E+03									
Sband delay (usec)	-1.18877638263E+03									
Phase delay (usec)	-1.18869861951E+03									
Delay rate (us/s)	-2.89441063312E-02									
Total phase (deg)			-30.4							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
amplitude	0.115 +/- 0.020									
Search (2048X32)	0.113									
Interp.	0.000									
Inc. seg. avg.	0.108									
Inc. frq. avg.	0.104									
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

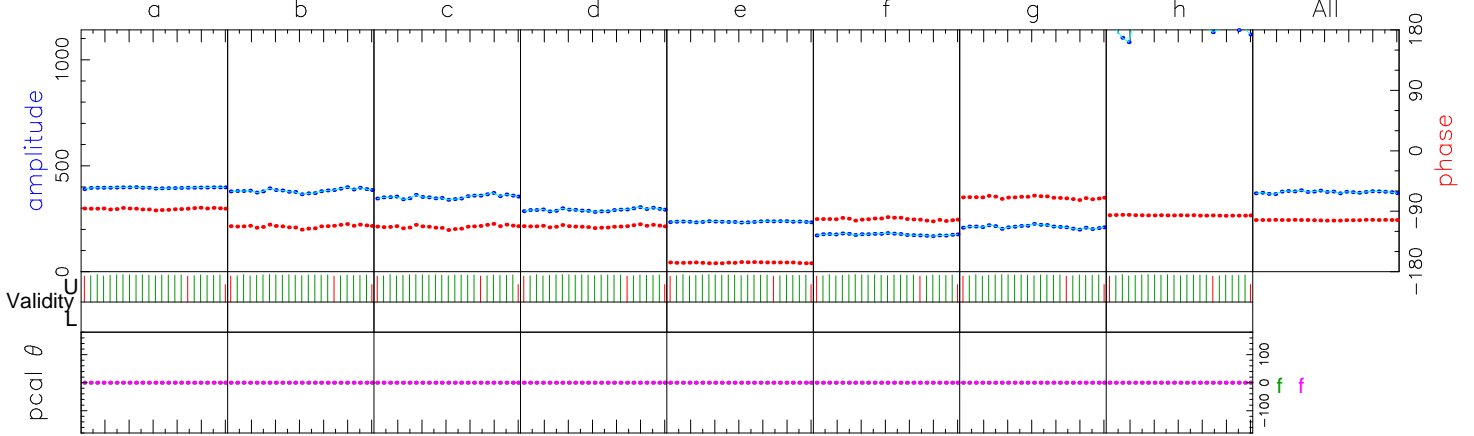
Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, ff
VLBA_FD - VLBA_FD, fgroup W, pol LR



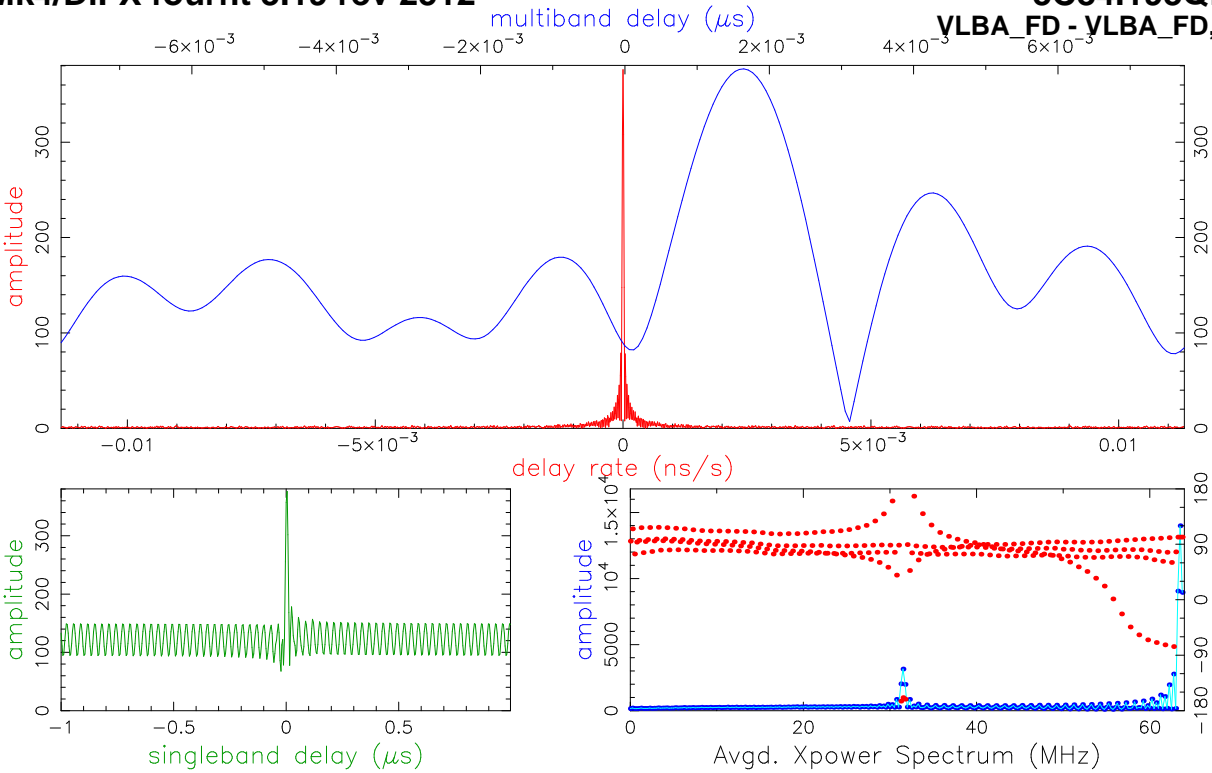
Fringe quality 5
SNR 19474.7
Int time 350.332
Amp 380.482
Phase -103.1
PFD 0.0e+00
Delays (us)
SBD -0.002723
MBD -0.001698
Fringe rate (Hz) 0.000005
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122504
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	-86.4	-112.5	-112.9	-112.3	-166.5	-101.8	-69.5	-96.1	Phase	-103.1
	396.1	382.4	353.2	292.0	235.9	175.4	211.6	1166.5	Ampl.	401.6
	256.3	256.3	256.5	256.5	251.0	256.9	256.4	255.7	Sbd box	256.3
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.69818750000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-1.69819E-03	+/- 5.6E-08
Sband delay (usec)	-2.72275000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-2.72275E-03	+/- 4.4E-07
Phase delay (usec)	-3.32607140293E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-3.32607E-06	+/- 1.9E-10
Delay rate (us/s)	5.95188400451E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		5.95188E-11	+/- 9.1E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-103.1	+/- 0.0

RMS Theor. Amplitude 380.482 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.3 0.0 Search (2048X32) 370.392 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 1.7 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 30.9 0.0 Inc. seg. avg. 375.989 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 78.7 0.0 Inc. frq. avg. 401.628 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 f: az 60.3 el 52.1 pa -91.3 f: az 60.3 el 52.1 pa -91.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/ff..193QBF Output file: /Exps/c201d/v1/1234/No0057/ff.W.106.193QBF

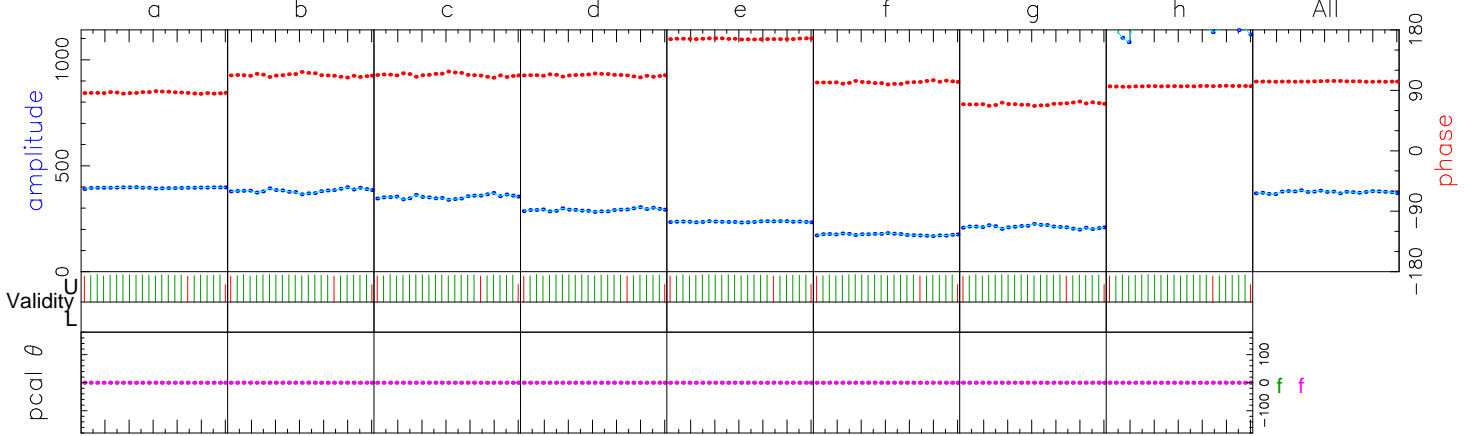


Fringe quality 5

SNR 19474.7
Int time 350.334
Amp 380.480
Phase 103.1
PFD 0.0e+00
Delays (us)
SBD 0.002723
MBD 0.001698
Fringe rate (Hz)
-0.000005
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122507
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	1.69818750000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	1.69819E-03	+/-	5.6E-08
Sband delay (usec)	2.72275000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	2.72275E-03	+/-	4.4E-07
Phase delay (usec)	3.32607140280E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.32607E-06	+/-	1.9E-10
Delay rate (us/s)	-5.95188400451E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-5.95188E-11	+/-	9.1E-13
Total phase (deg)	103.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	103.1	+/-	0.0

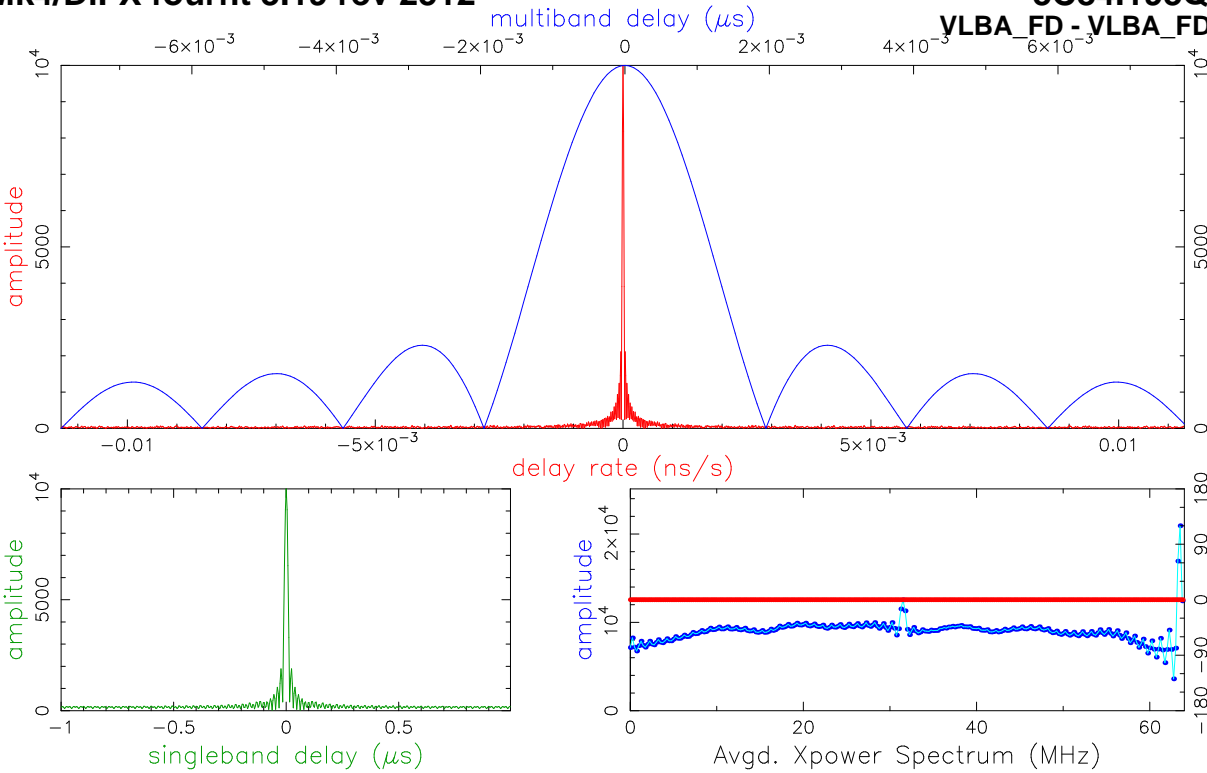
ph/seg (deg)	0.3	RMS	Theor.	Amplitude	380.480 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	1.7	0.0	0.0	Search (2048X32)	370.390	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	30.9	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	78.7	0.0	0.0	Inc. seg. avg.	375.987	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	401.626	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

f: az 60.3 el 52.1 pa -91.3 f: az 60.3 el 52.1 pa -91.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/ff..193QBF Output file: /Exps/c201d/v1/1234/No0057/ff.W.121.193QBF

Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, ff
VLBA_FD - VLBA_FD, fgroup W, pol LL

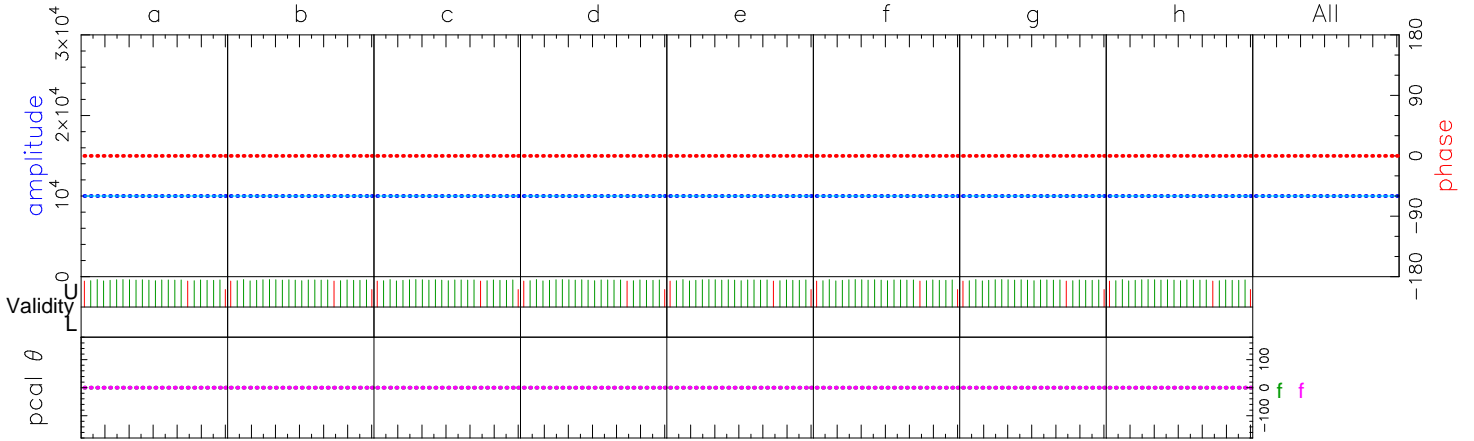


Fringe quality 9

SNR 511843.8
Int time 350.332
Amp 10000.002
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122457
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
f	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	+/-	2.1E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.7E-08
Phase delay (usec)	1.90236703086E-19	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.90237E-19	+/-	7.2E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.5E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

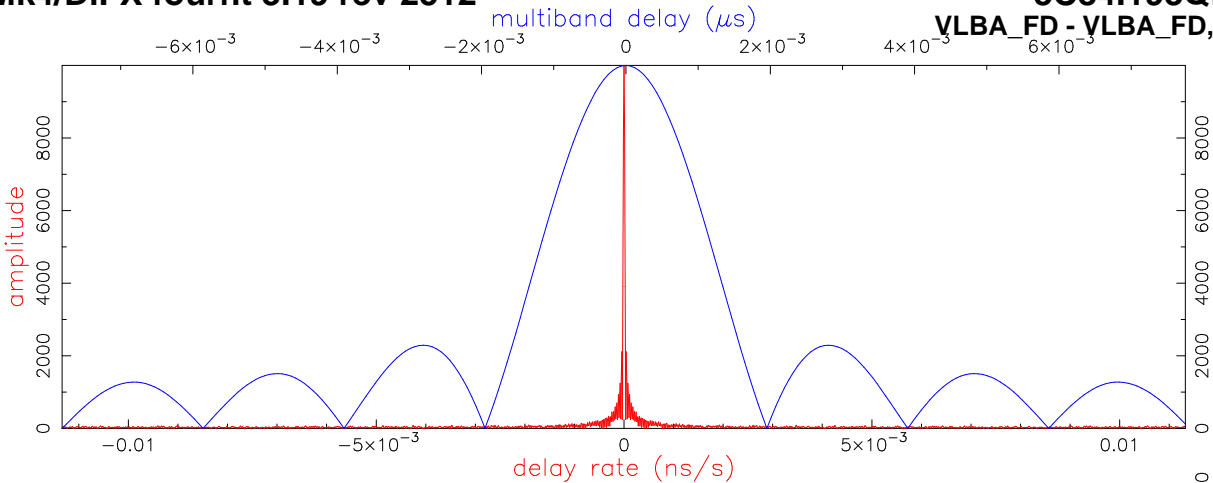
ph/seg (deg)	0.0	RMS	Theor.	Amplitude	10000.002 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.0	0.0	0.0	Search (2048X32)	10000.002	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MISamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	10000.002	Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

f: az 60.3 el 52.1 pa -91.3 f: az 60.3 el 52.1 pa -91.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

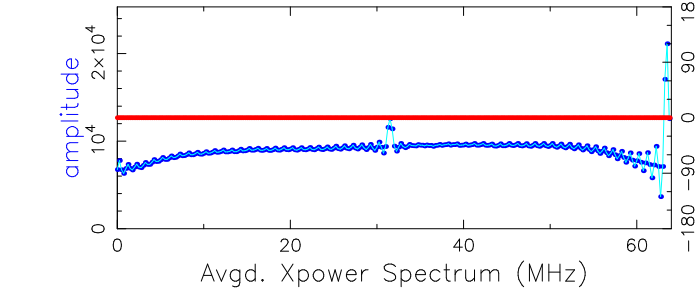
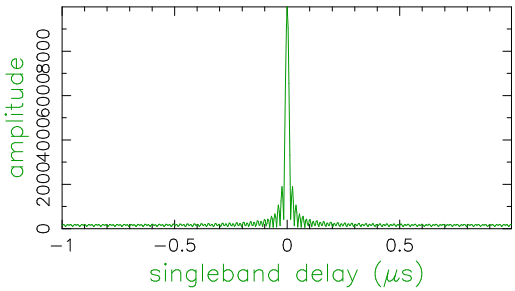
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/ff..193QBF Output file: /Exps/c201d/v1/1234/No0057/ff.W.78.193QBF

Mk4/DiFX fourfit 3.19 rev 2512

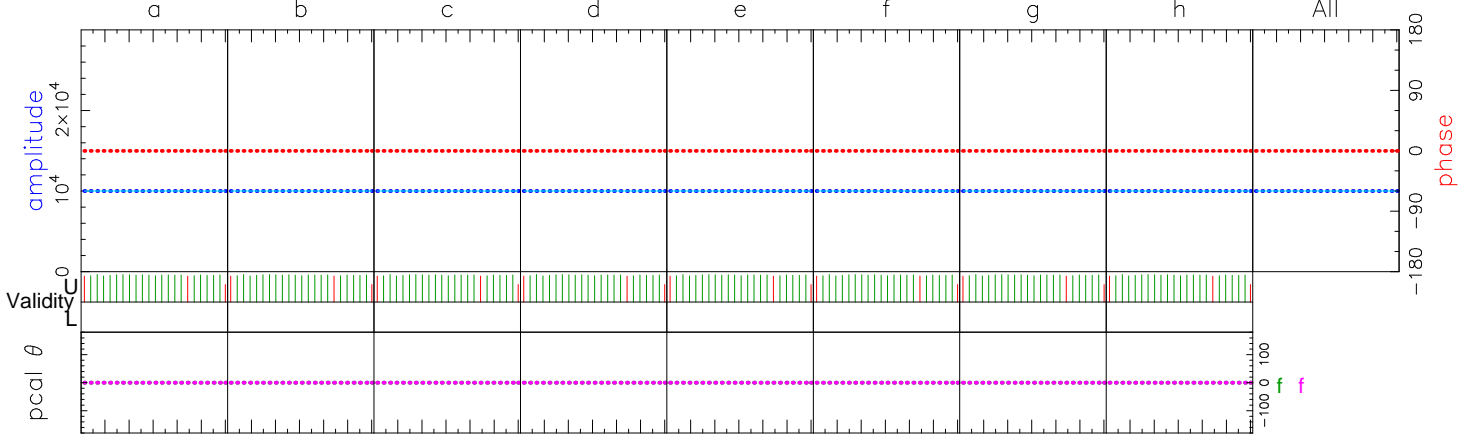
3C84.193QBF, No0057, ff
VLBA_FD - VLBA_FD, fgroup W, pol RR



Fringe quality 9
SNR 511844.9
Int time 350.334
Amp 9999.996
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. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122500
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

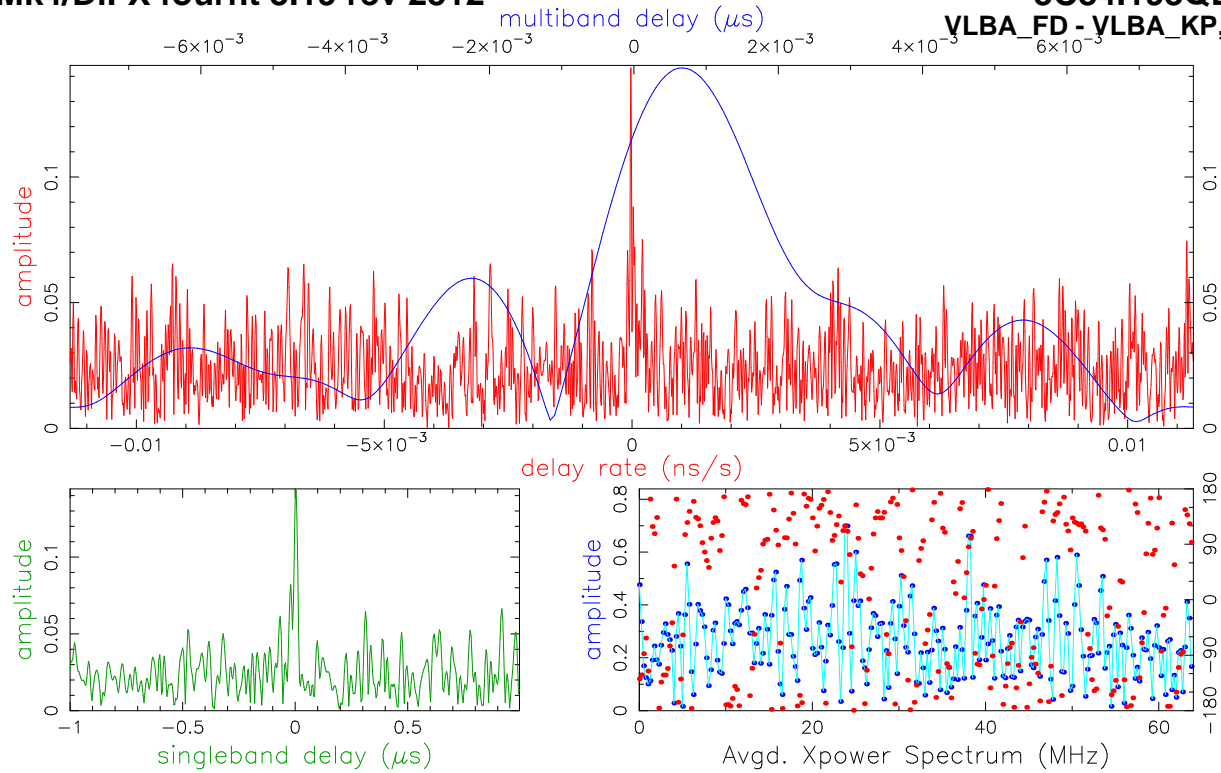


Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
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		+/- 2.1E-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		+/- 1.7E-08
Phase delay (usec)	-6.76875601082E-20	-6.76875601082E-20	-6.76875601082E-20	-6.76875601082E-20	-6.76875601082E-20	-6.76875601082E-20	-6.76875601082E-20	-6.76875601082E-20		+/- 7.2E-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		+/- 3.5E-14
Total phase (deg)			-0.0							+/- 0.0

RMS Theor. Amplitude 9999.996 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 9999.996 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. 9999.996 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 f: az 60.3 el 52.1 pa -91.3 f: az 60.3 el 52.1 pa -91.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/ff..193QBF Output file: /Exps/c201d/v1/1234/No0057/ff.W.91.193QBF

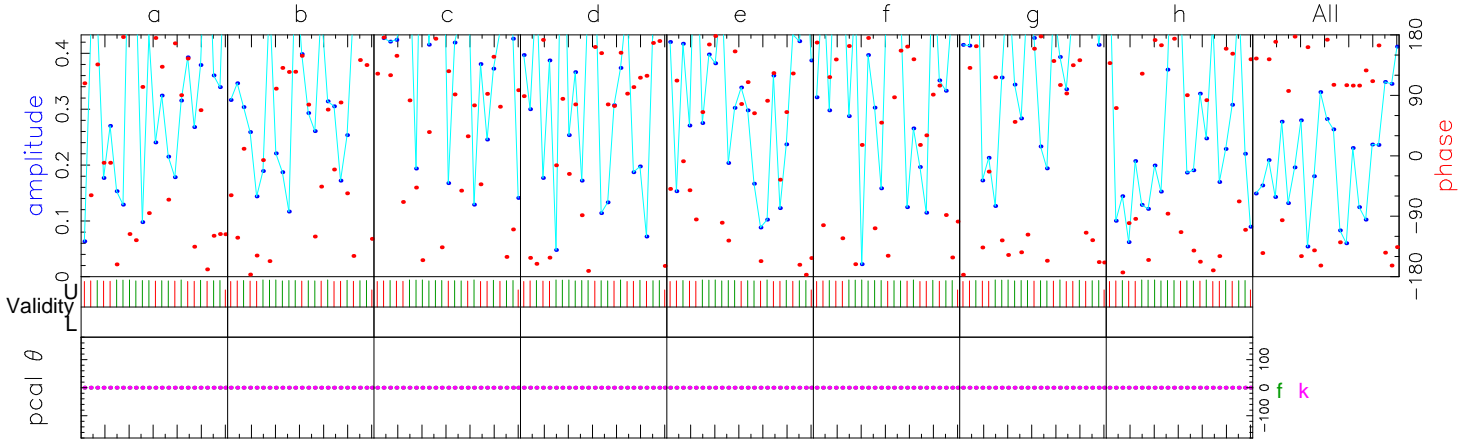


Fringe quality 9

SNR 7.3
Int time 343.507
Amp 0.144
Phase 176.9
PFD 7.9e-05
Delays (us)
SBD 0.002825
MBD 0.000676
Fringe rate (Hz)
-0.001830
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122506
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	-145.9	173.7	160.8	145.5	177.5	175.9	179.2	-166.8	Phase	176.9
	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	Ampl.	0.1
	213.3	26.7	357.2	257.2	494.2	257.4	258.1	257.1	Sbd box	257.7
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	1.21853361830E+03	Apriori delay (usec)	1.21853294255E+03	Resid mbdelay (usec)	6.75750E-04	+/-	1.5E-04
Sband delay (usec)	1.21853576780E+03	Apriori clock (usec)	4.2584367E+00	Resid sbdelay (usec)	2.82525E-03	+/-	1.2E-03
Phase delay (usec)	1.21853294826E+03	Apriori clockrate (us/s)	1.0360000E-07	Resid phdelay (usec)	5.70378E-06	+/-	5.1E-07
Delay rate (us/s)	-7.73197083103E-02	Apriori rate (us/s)	-7.73196870685E-02	Resid rate (us/s)	-2.12418E-08	+/-	2.4E-09
Total phase (deg)	58.6	Apriori accel (us/s/s)	-7.93268593819E-06	Resid phase (deg)	176.9	+/-	15.7

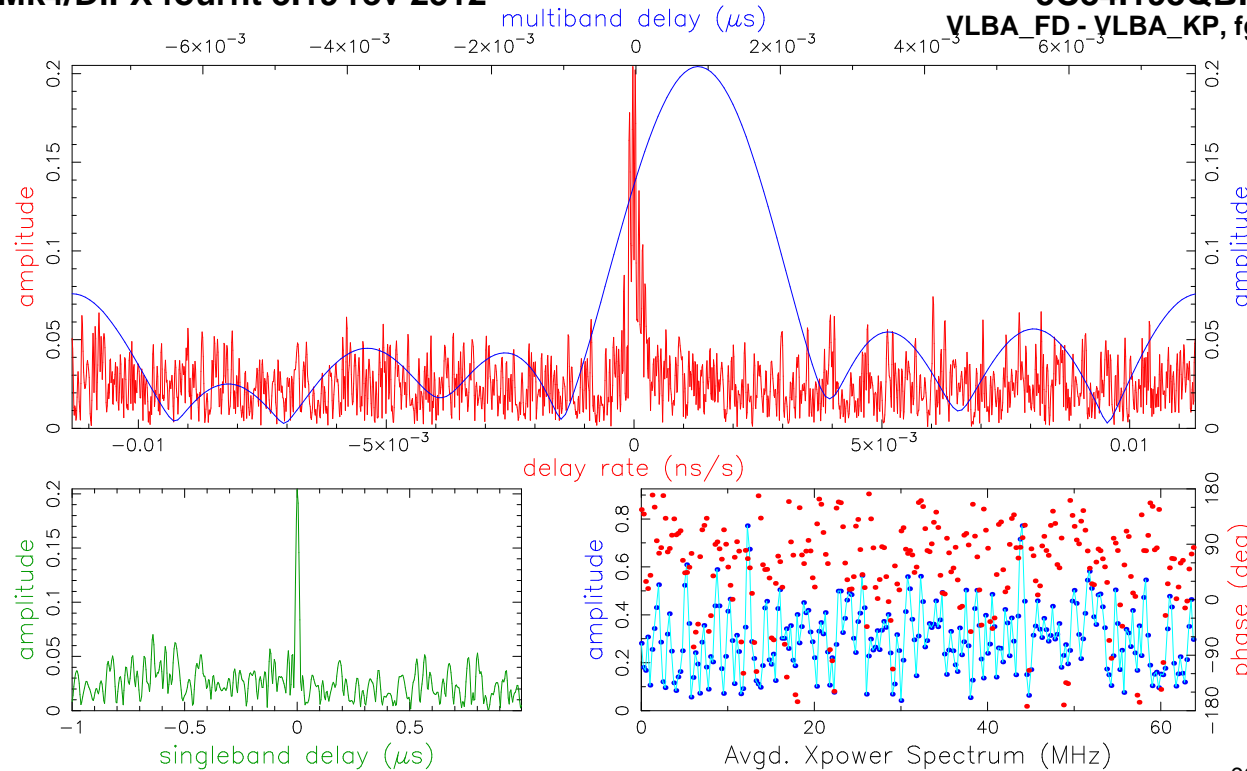
ph/seg (deg)	49.5	RMS	37.6	Theor.	Amplitude	0.144 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	78.0	Search (2048X32)	0.141	Inc. seg. avg.	0.171		Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	22.0	Inc. frq. avg.	0.141	Inc. frq. avg.	0.141		Bits/sample: 2x2	mb window (us)	-0.008 0.008
amp/frq (%)	36.4						SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
							Sample rate(MISamp/s): 128	ion window (TEC)	0.00 0.00
							Data rate(Mb/s): 2048		
							nlags: 256		
							t_cohere infinite		

f: az 60.3 el 52.1 pa -91.3 k: az 61.4 el 47.0 pa -85.5 u,v (fr/asec) 582.392 -687.464 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fk..193QBF Output file: /Exps/c201d/v1/1234/No0057/fk.W.114.193QBF

Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, fk
VLBA_FD - VLBA_KP, fgroup W, pol RL

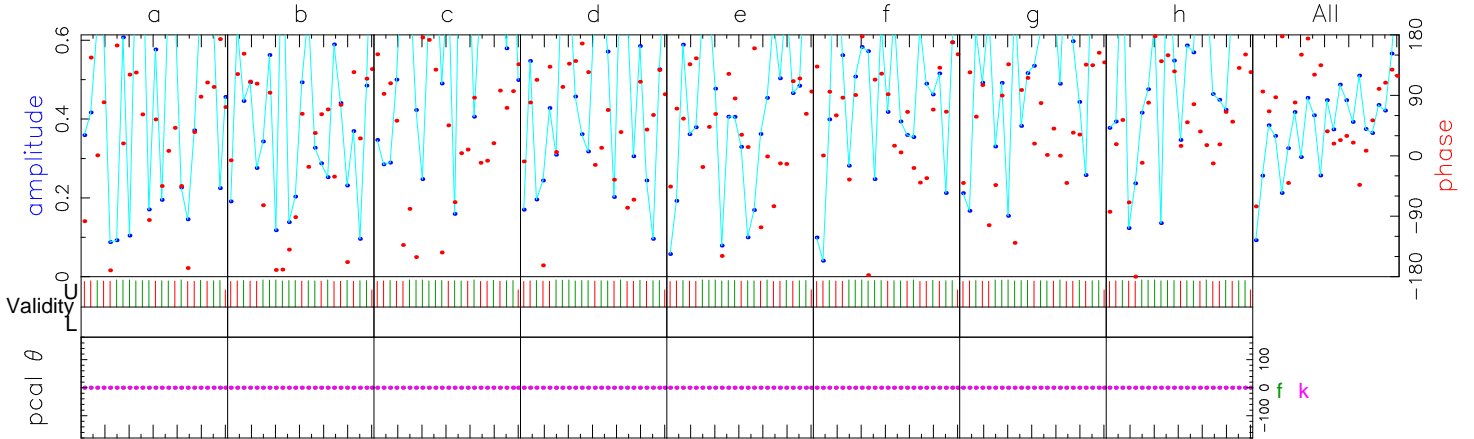


Fringe quality 9

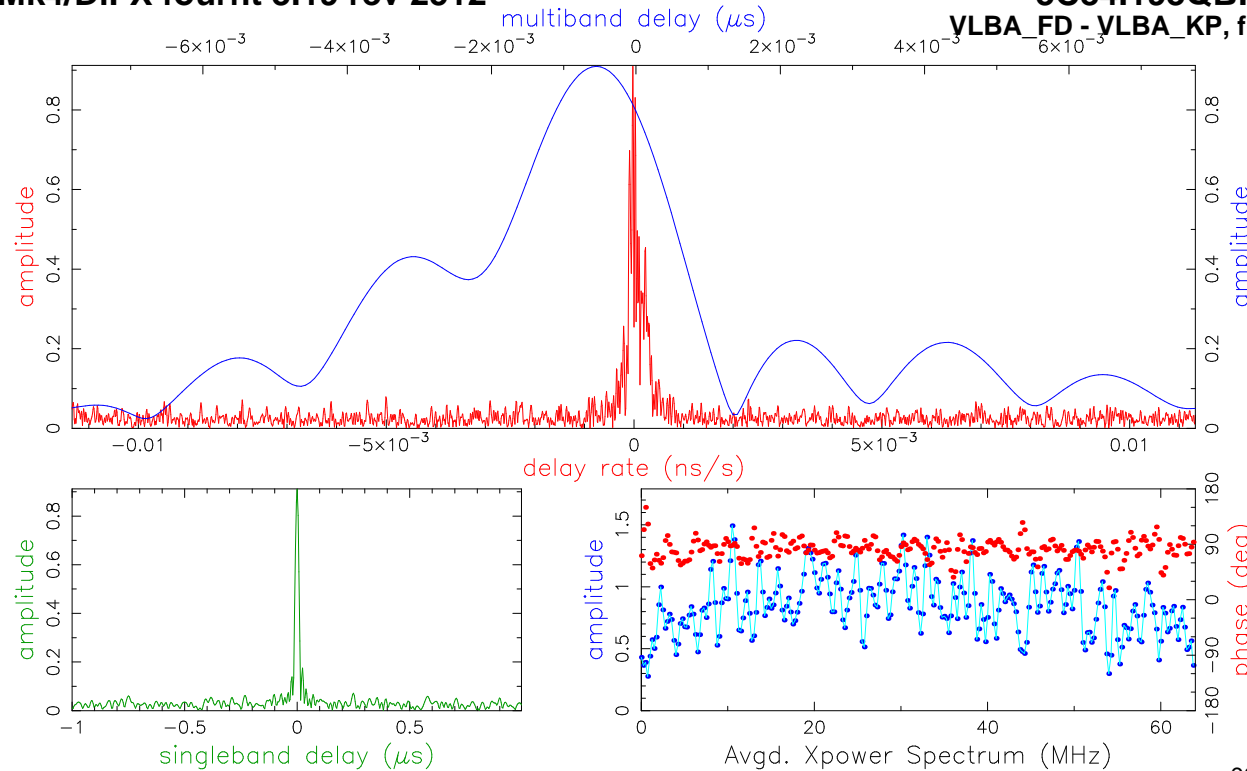
SNR 10.4
Int time 343.509
Amp 0.205
Phase 74.2
PFD 1.5e-16
Delays (us)
SBD 0.000719
MBD 0.000867
Fringe rate (Hz)
-0.001839
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122510
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)		1.21853380993E+03			1.21853294255E+03				Resid mbdelay (usec)	8.67375E-04 +/- 1.0E-04
Sband delay (usec)		1.21853366130E+03			4.2584367E+00				Resid sbdelay (usec)	7.18750E-04 +/- 8.3E-04
Phase delay (usec)		1.21853294495E+03			1.0360000E-07				Resid phdelay (usec)	2.39312E-04 +/- 3.6E-07
Delay rate (us/s)		-7.73197084166E-02			-7.73196870685E-02				Resid rate (us/s)	-2.13481E-08 +/- 1.7E-09
Total phase (deg)			316.0		-7.93268593819E-06				Resid phase (deg)	74.2 +/- 11.0
RMS	68.0	26.5		0.205 +/- 0.020					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	68.0	26.5		Search (2048X32)	0.202				PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	106.6	46.2		Interp.	0.000				Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	16.9	15.6		Inc. seg. avg.	0.350				Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	18.8	27.3		Inc. frq. avg.	0.202				Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
f: az 60.3 el 52.1 pa -91.3				k: az 61.4 el 47.0 pa -85.5					nlags: 256	t_cohere infinite
Control file: cf_1234_gmva				Input file: /Exps/c201d/v1/1234/No0057/fk..193QBF					u,v (fr/asec) 582.392 -687.464	simultaneous interpolator
									Output file: /Exps/c201d/v1/1234/No0057/fk.W.134.193QBF	

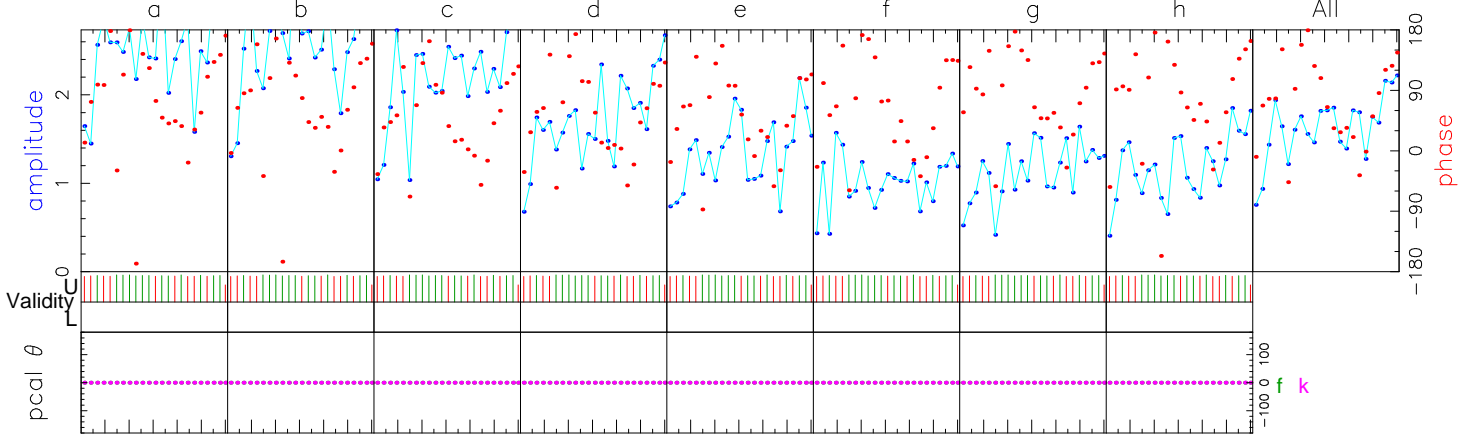


Fringe quality 5

SNR 46.2
Int time 343.507
Amp 0.912
Phase 80.7
PFD 0.0e+00
Delays (us)
SBD -0.000676
MBD -0.000559
Fringe rate (Hz)
-0.001909
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122457
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



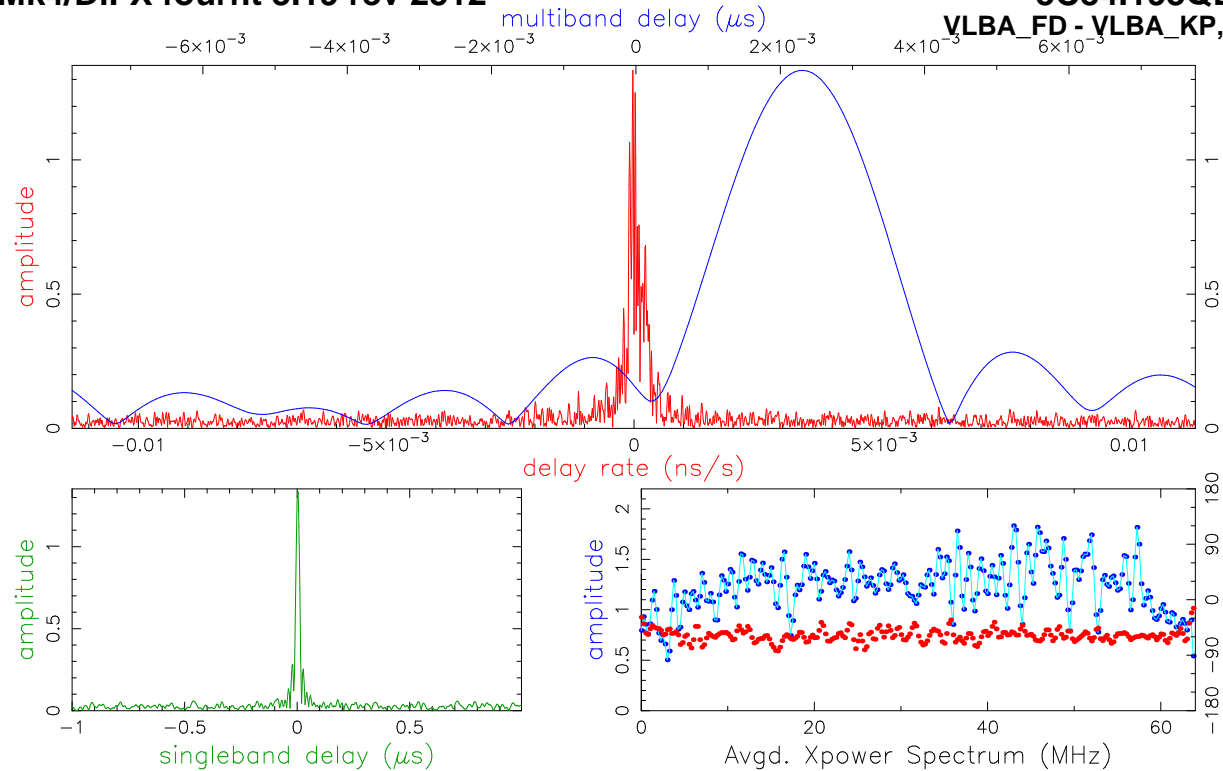
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	1.21853238384E+03	Apriori delay (usec)	1.21853294255E+03	Resid mbdelay (usec)	-5.58719E-04	+/-	2.3E-05
Sband delay (usec)	1.21853226630E+03	Apriori clock (usec)	4.2584367E+00	Resid sbdelay (usec)	-6.76250E-04	+/-	1.9E-04
Phase delay (usec)	1.21853294516E+03	Apriori clockrate (us/s)	1.0360000E-07	Resid phdelay (usec)	2.60153E-06	+/-	8.0E-08
Delay rate (us/s)	-7.73197092272E-02	Apriori rate (us/s)	-7.73196870685E-02	Resid rate (us/s)	-2.21587E-08	+/-	3.9E-10
Total phase (deg)	322.4	Apriori accel (us/s/s)	-7.93268593819E-06	Resid phase (deg)	80.7	+/-	2.5

ph/seg (deg)	61.9	Theor.	Amplitude	0.912 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	87.0	5.9	Search (2048X32)	0.908	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	18.8	3.5	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	36.7	6.1	Inc. seg. avg.	1.616	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
			Inc. frq. avg.	0.948	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

f: az 60.3 el 52.1 pa -91.3 k: az 61.4 el 47.0 pa -85.5 u,v (fr/asec) 582.392 -687.464 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fk..193QBF Output file: /Exps/c201d/v1/1234/No0057/fk.W.80.193QBF

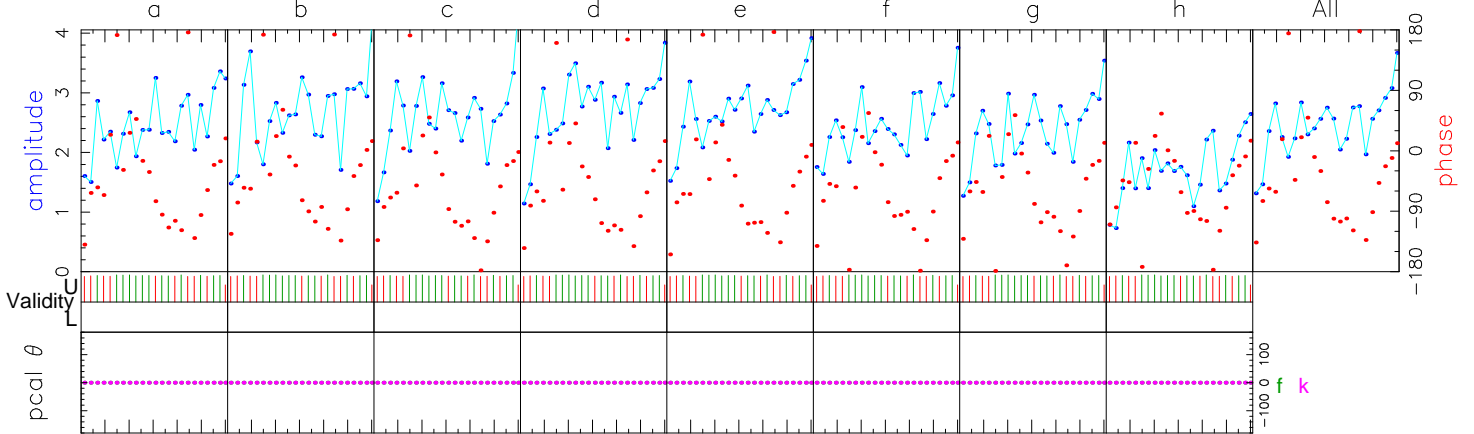


Fringe quality 5

SNR 68.5
Int time 343.508
Amp 1.352
Phase -56.9
PFD 0.0e+00
Delays (us)
SBD 0.002381
MBD 0.002270
Fringe rate (Hz)
-0.001875
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122502
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

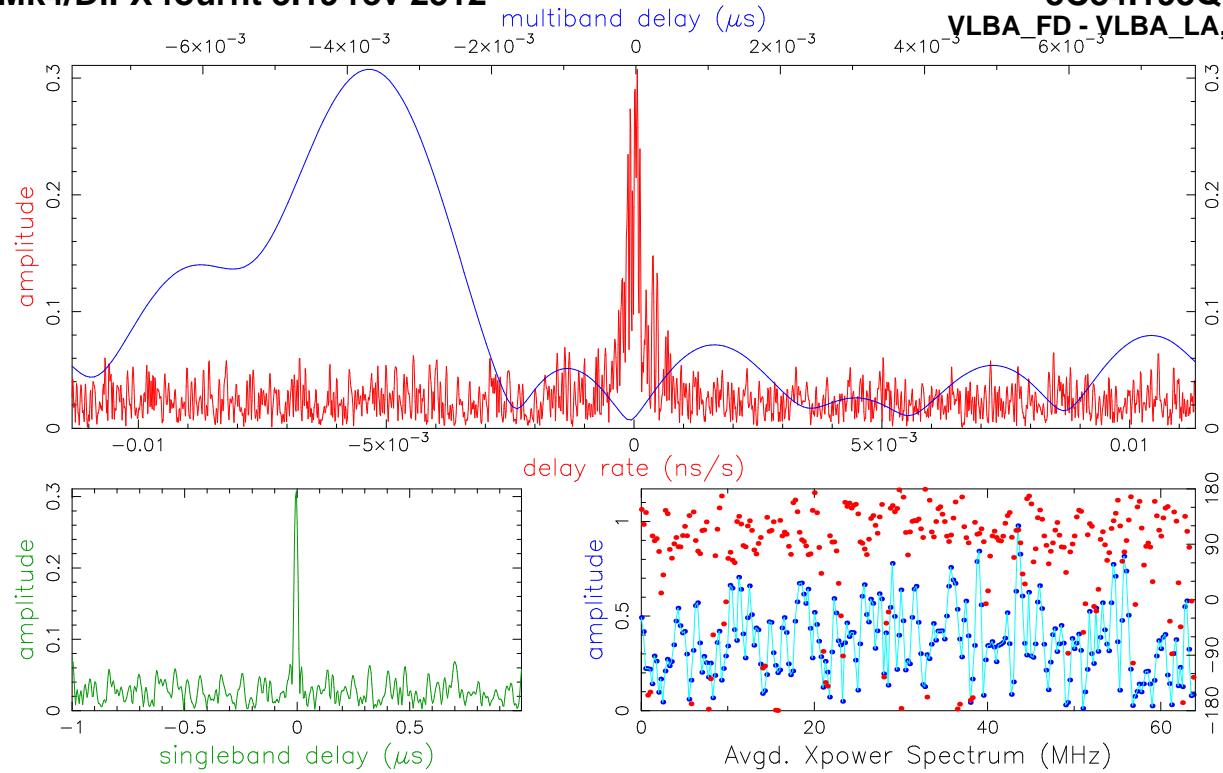


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-58.9	-52.0	-60.0	-62.6	-62.0	-54.2	-54.6	-47.2	Phase	-56.9
	1.3	1.5	1.4	1.4	1.5	1.3	1.3	0.9	Ampl.	1.3
	257.8	257.3	257.7	257.6	257.8	257.3	257.8	257.8	Sbd box	257.6
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.21853521293E+03		Apriori delay (usec)		1.21853294255E+03		Resid mbdelay (usec)		2.27038E-03	+/- 1.6E-05
Sband delay (usec)	1.21853532330E+03		Apriori clock (usec)		4.2584367E+00		Resid sbdelay (usec)		2.38075E-03	+/- 1.3E-04
Phase delay (usec)	1.21853294072E+03		Apriori clockrate (us/s)		1.0360000E-07		Resid phdelay (usec)		-1.83460E-06	+/- 5.4E-08
Delay rate (us/s)	-7.73197088347E-02		Apriori rate (us/s)		-7.73196870685E-02		Resid rate (us/s)		-2.17662E-08	+/- 2.6E-10
Total phase (deg)	184.9		Apriori accel (us/s/s)		-7.93268593819E-06		Resid phase (deg)		-56.9	+/- 1.7

ph/seg (deg) 62.4 4.0 Search (2048X32) 1.324 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 88.1 7.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 5.8 2.4 Inc. seg. avg. 2.436 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 12.9 4.1 Inc. frq. avg. 1.337 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 60.3 el 52.1 pa -91.3 k: az 61.4 el 47.0 pa -85.5 u,v (fr/asec) 582.392 -687.464 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fk..193QBF Output file: /Exps/c201d/v1/1234/No0057/fk.W.93.193QBF

Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, fl
VLBA_FD - VLBA_LA, fgroup W, pol LR

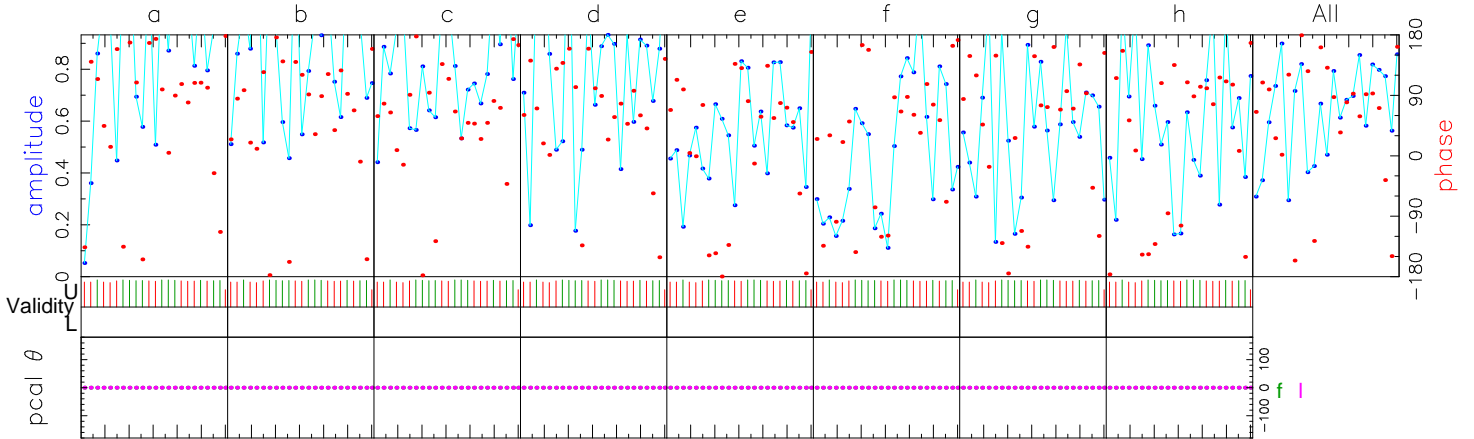


Fringe quality 9

SNR 15.7
Int time 341.973
Amp 0.311
Phase 96.8
PFD 0.0e+00
Delays (us)
SBD -0.005291
MBD -0.003721
Fringe rate (Hz) 0.005550
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

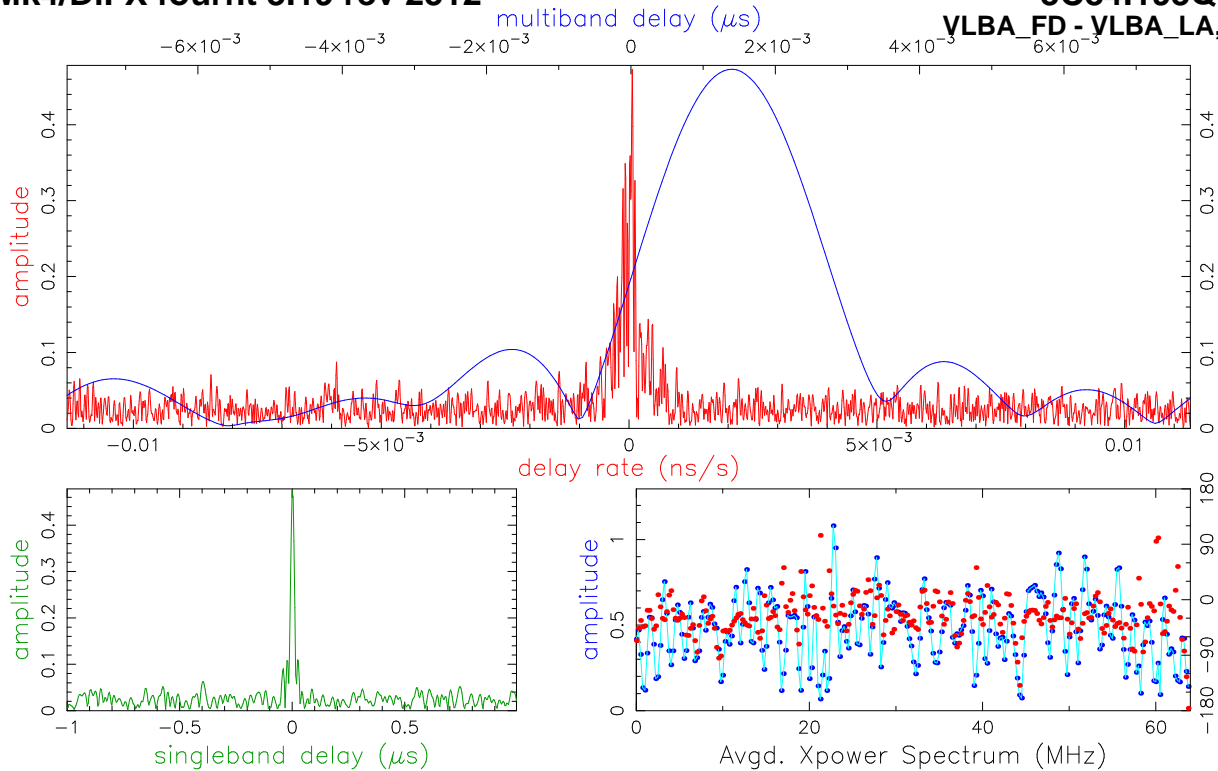
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122508
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.23513821061E+02									
Sband delay (usec)	-1.23515390967E+02									
Phase delay (usec)	-1.23510096846E+02									
Delay rate (us/s)	1.37088198320E-02									
Total phase (deg)			92.8							
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)									96.8	+/- 7.3
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Sample rate(MISamp/s):	128									
Data rate(Mb/s):	2048									
PC period (AP's)	5	5								
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

ph/seg (deg) 66.1 17.5 Search (2048X32) 0.302 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 120.1 30.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 19.9 10.3 Inc. seg. avg. 0.610 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 38.8 18.0 Inc. frq. avg. 0.317 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 60.3 el 52.1 pa -91.3 l: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) -110.097 -839.319 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fl..193QBF Output file: /Exps/c201d/v1/1234/No0057/fl.W.125.193QBF

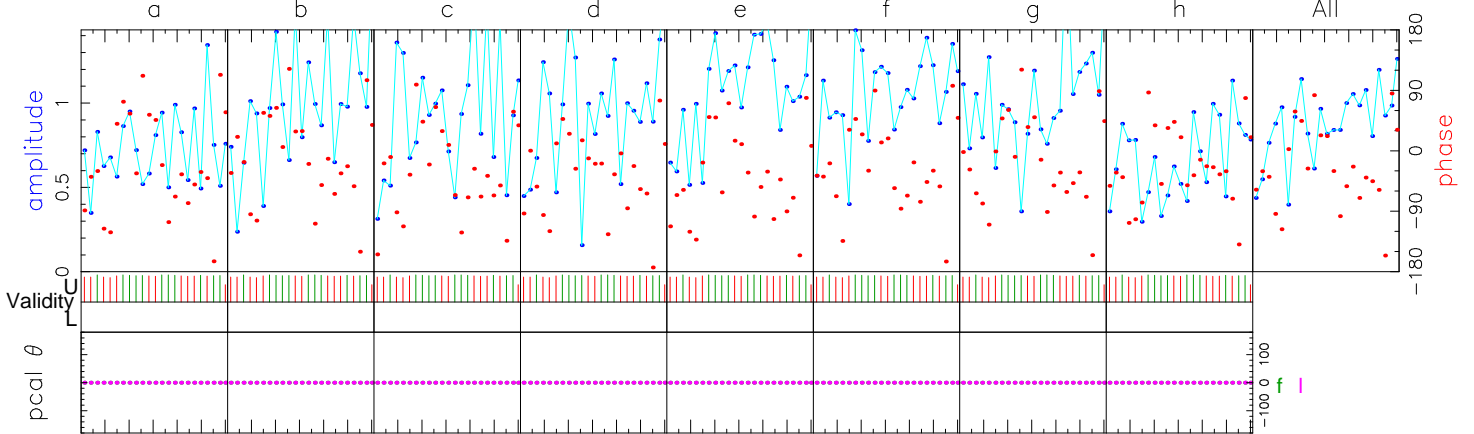


Fringe quality 7

SNR 24.2
Int time 341.975
Amp 0.478
Phase -27.1
PFD 0.0e+00
Delays (us)
SBD 0.001345
MBD 0.001429
Fringe rate (Hz) 0.005608
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122512
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

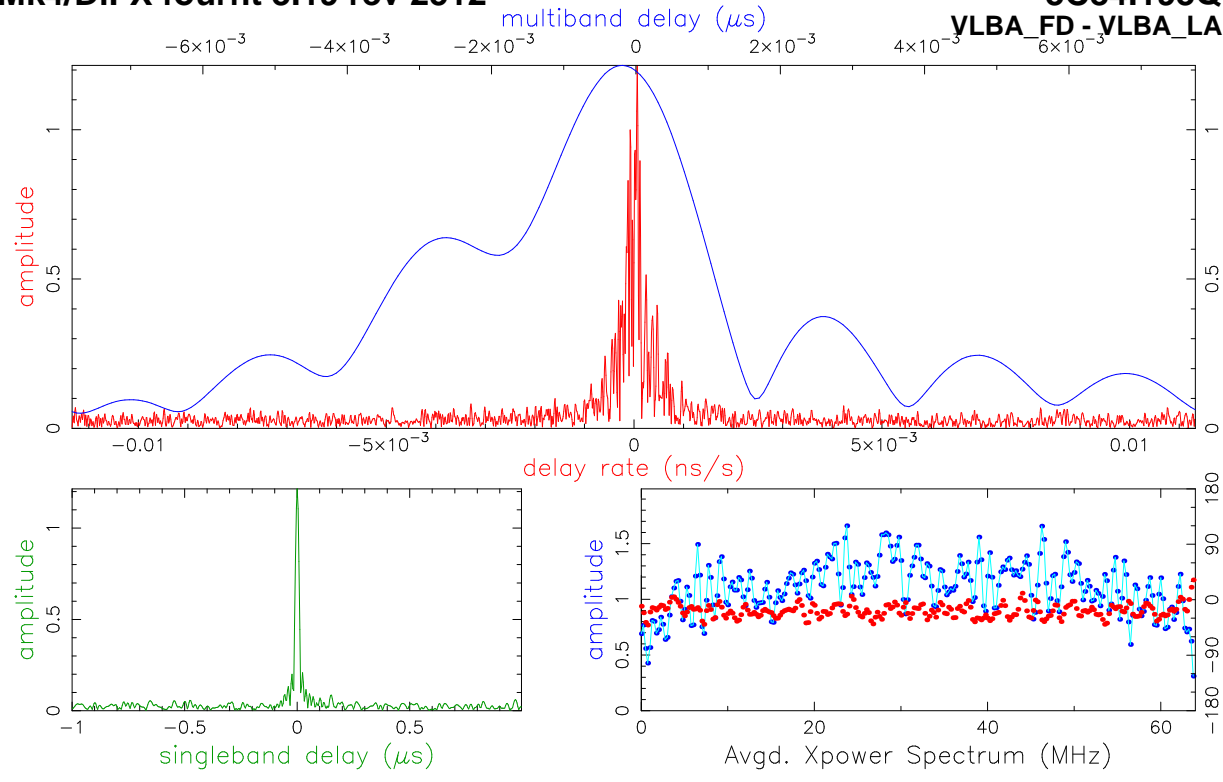
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-27.1	-11.2	-32.2	-30.2	-39.9	-20.4	-26.0	-29.6	Phase	-27.1
	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.4	Ampl.	0.5
	258.1	257.7	257.2	257.3	256.8	257.3	257.4	257.7	Sbd box	257.3
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

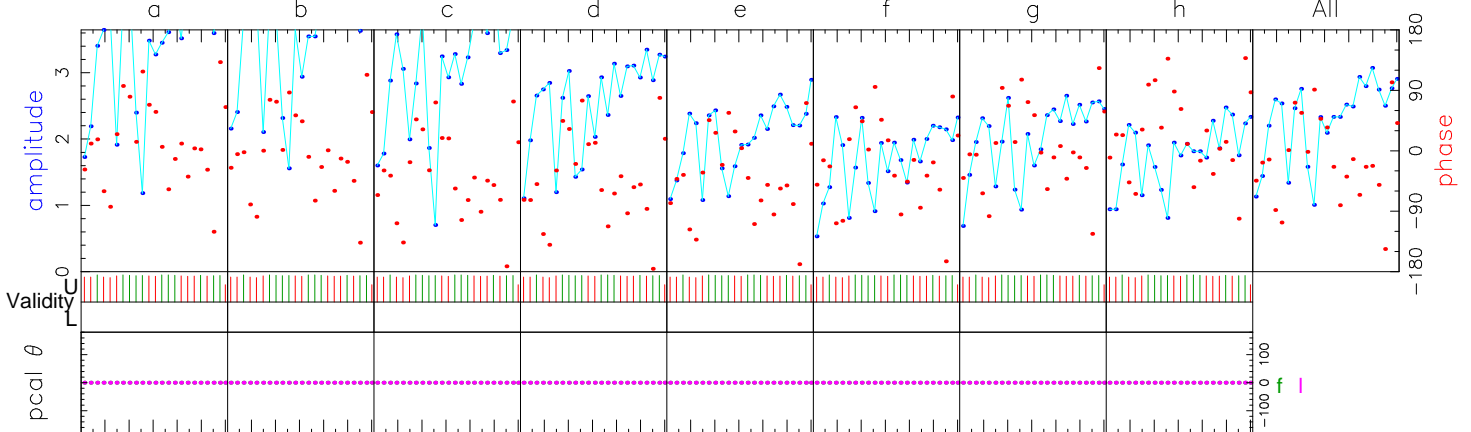
Group delay (usec)(sbd)	-1.23508670499E+02	Apriori delay (usec)	-1.23510099967E+02	Resid mbdelay (usec)	1.42947E-03	+/-	4.5E-05
Sband delay (usec)	-1.23508754717E+02	Apriori clock (usec)	7.6483469E+00	Resid sbdelay (usec)	1.34525E-03	+/-	3.6E-04
Phase delay (usec)	-1.23510100840E+02	Apriori clockrate (us/s)	2.6000000E-07	Resid phdelay (usec)	-8.73348E-07	+/-	1.5E-07
Delay rate (us/s)	1.37088205037E-02	Apriori rate (us/s)	1.37087553993E-02	Resid rate (us/s)	6.51044E-08	+/-	7.4E-10
Total phase (deg)	-31.1	Apriori accel (us/s/s)	-4.91974708465E-06	Resid phase (deg)	-27.1	+/-	4.7

ph/seg (deg)	61.0	Theor.	11.4	Amplitude	0.478 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	94.2	Search (2048X32)	0.471	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	9.2	Interp.	0.000	Inc. seg. avg.	0.859	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	15.8	Inc. frq. avg.	0.475	Inc. frq. avg.	0.475	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
f: az 60.3 el 52.1 pa -91.3		l: az 66.2 el 52.6 pa -83.2		u, v (fr/asec)	-110.097 -839.319	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	



Fringe quality 2
SNR 61.5
Int time 341.973
Amp 1.215
Phase -16.3
PFD 0.0e+00
Delays (us)
SBD -0.000037
MBD -0.000190
Fringe rate (Hz) 0.005576
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122459
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

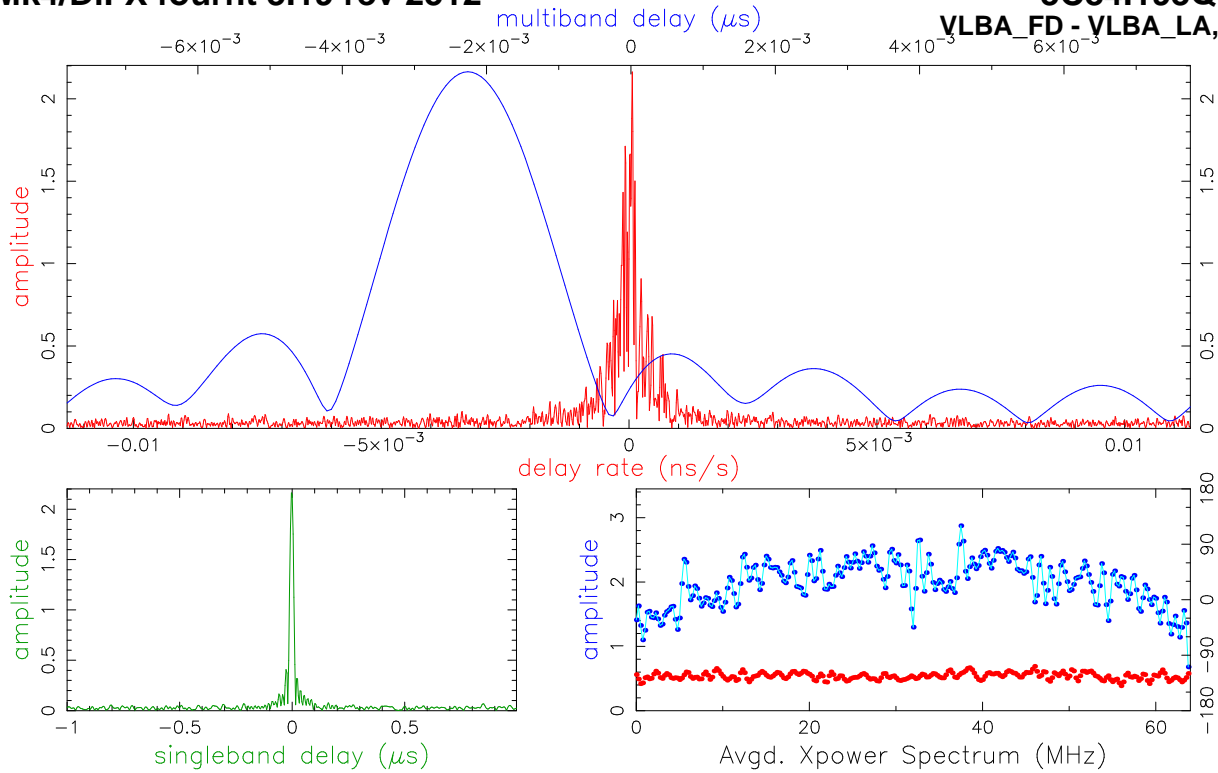
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.23510290092E+02				-1.23510099967E+02					
Sband delay (usec)	-1.23510137217E+02				7.6483469E+00					
Phase delay (usec)	-1.23510100494E+02				2.6000000E-07					
Delay rate (us/s)	1.37088201360E-02				1.37087553993E-02					
Total phase (deg)			-20.3		-4.91974708465E-06					
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										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
Tracks										
Chan ids										
Tracks										
Chan ids										
Tracks										
RMS	62.1	4.5			1.189					
ph/seg (deg)	62.1	4.5			1.189					
amp/seg (%)	100.7	7.8			0.000					
ph/frq (deg)	27.2	2.6			2.286					
amp/frq (%)	34.8	4.6			1.319					
f: az 60.3 el 52.1 pa -91.3										
l: az 66.2 el 52.6 pa -83.2										
u,v (fr/asec) -110.097 -839.319										
simultaneous interpolator										

Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, fl
VLBA_FD - VLBA_LA, fgroup W, pol RR

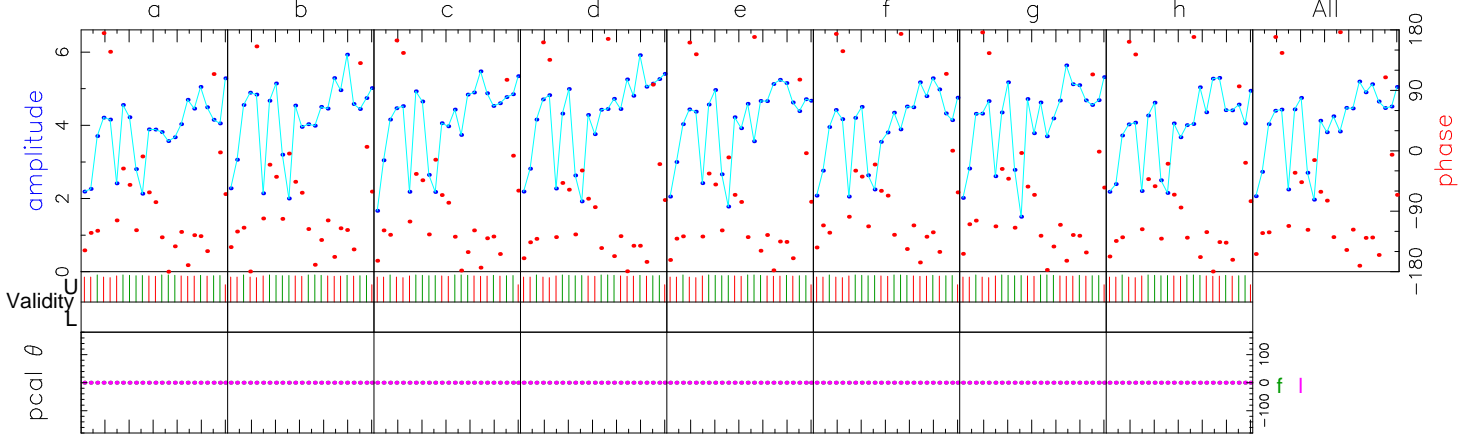


Fringe quality 5

SNR 111.4
Int time 341.975
Amp 2.203
Phase -122.9
PFD 0.0e+00
Delays (us)
SBD -0.002155
MBD -0.002218
Fringe rate (Hz) 0.005595
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122502
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

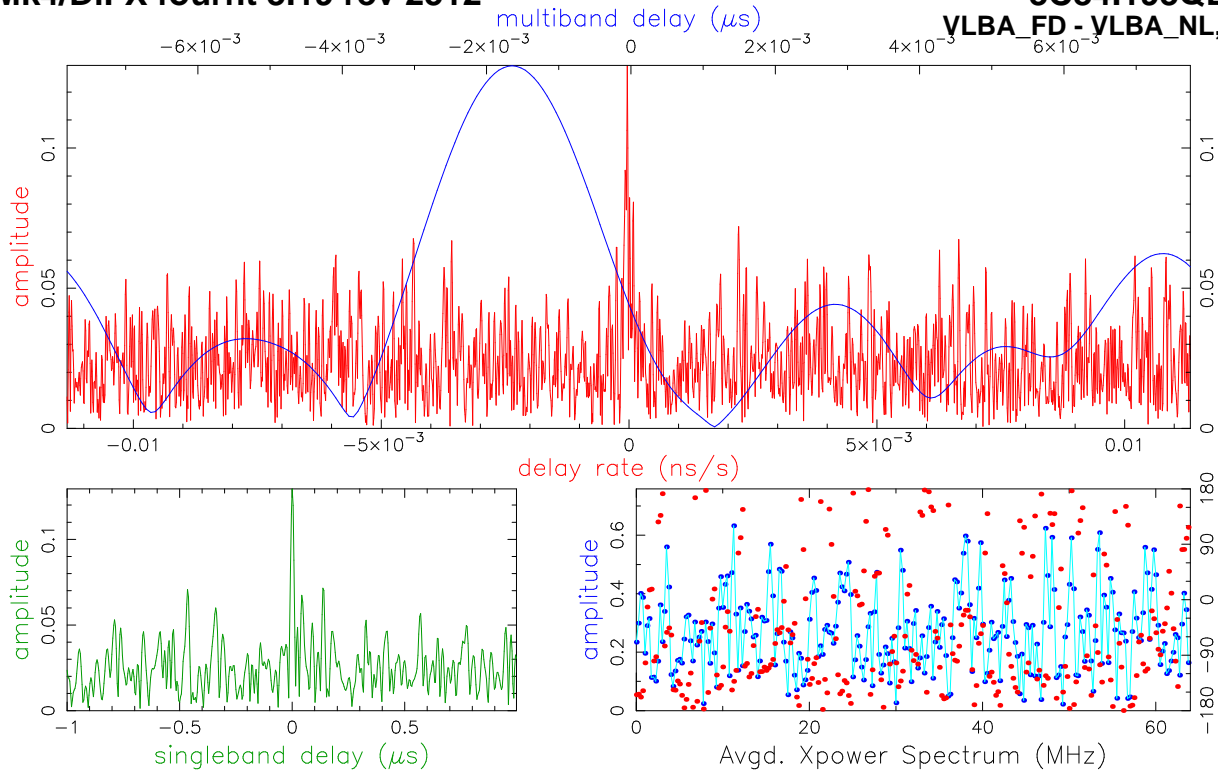


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-120.0	-111.8	-122.5	-134.8	-128.4	-119.5	-116.1	-130.1	Phase	-122.9
	2.1	2.3	2.1	2.3	2.2	2.1	2.2	2.1	Ampl.	2.2
	256.8	256.2	256.2	256.5	256.3	256.5	256.5	256.5	Sbd box	256.4
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.23512317936E+02		Apriori delay (usec)		-1.23510099967E+02		Resid mbdelay (usec)		-2.21797E-03	+/- 9.7E-06
Sband delay (usec)	-1.23512255217E+02		Apriori clock (usec)		7.6483469E+00		Resid sbdelay (usec)		-2.15525E-03	+/- 7.7E-05
Phase delay (usec)	-1.23510103929E+02		Apriori clockrate (us/s)		2.6000000E-07		Resid phdelay (usec)		-3.96235E-06	+/- 3.3E-08
Delay rate (us/s)	1.37088203570E-02		Apriori rate (us/s)		1.37087553993E-02		Resid rate (us/s)		6.49577E-08	+/- 1.6E-10
Total phase (deg)			Apriori accel (us/s/s)		-4.91974708465E-06		Resid phase (deg)		-122.9	+/- 1.0

ph/seg (deg) 61.7 2.5 Search (2048X32) 2.128 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 93.2 4.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 8.3 1.5 Inc. seg. avg. 4.013 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 3.7 2.5 Inc. frq. avg. 2.180 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 60.3 el 52.1 pa -91.3 l: az 66.2 el 52.6 pa -83.2 u,v (fr/asec) -110.097 -839.319 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fl..193QBF Output file: /Exps/c201d/v1/1234/No0057/fl.W.97.193QBF

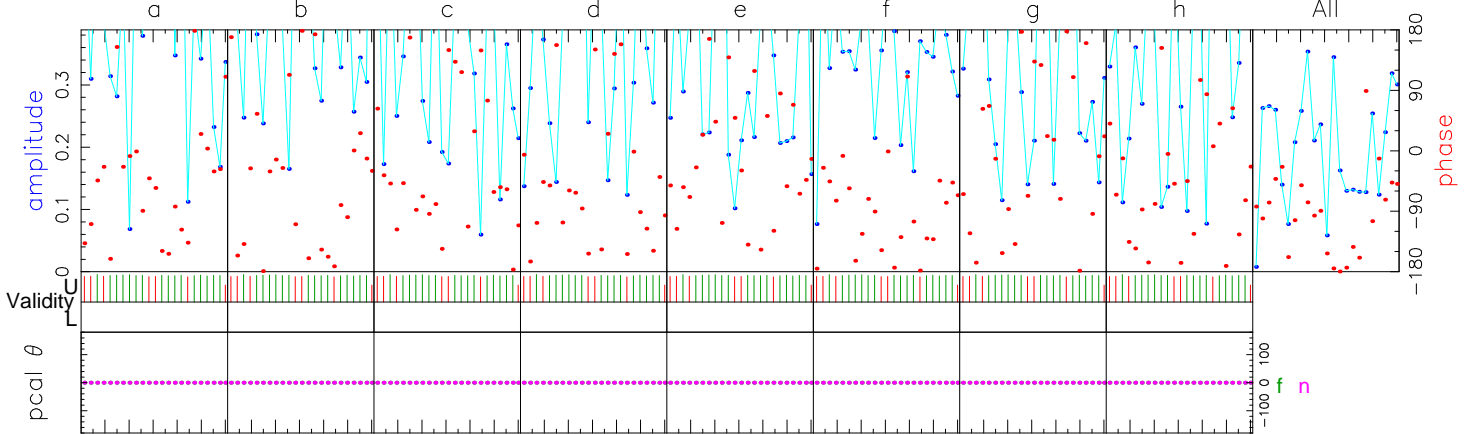
Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, fn
VLBA_FD - VLBA_NL, fgroup W, pol LR



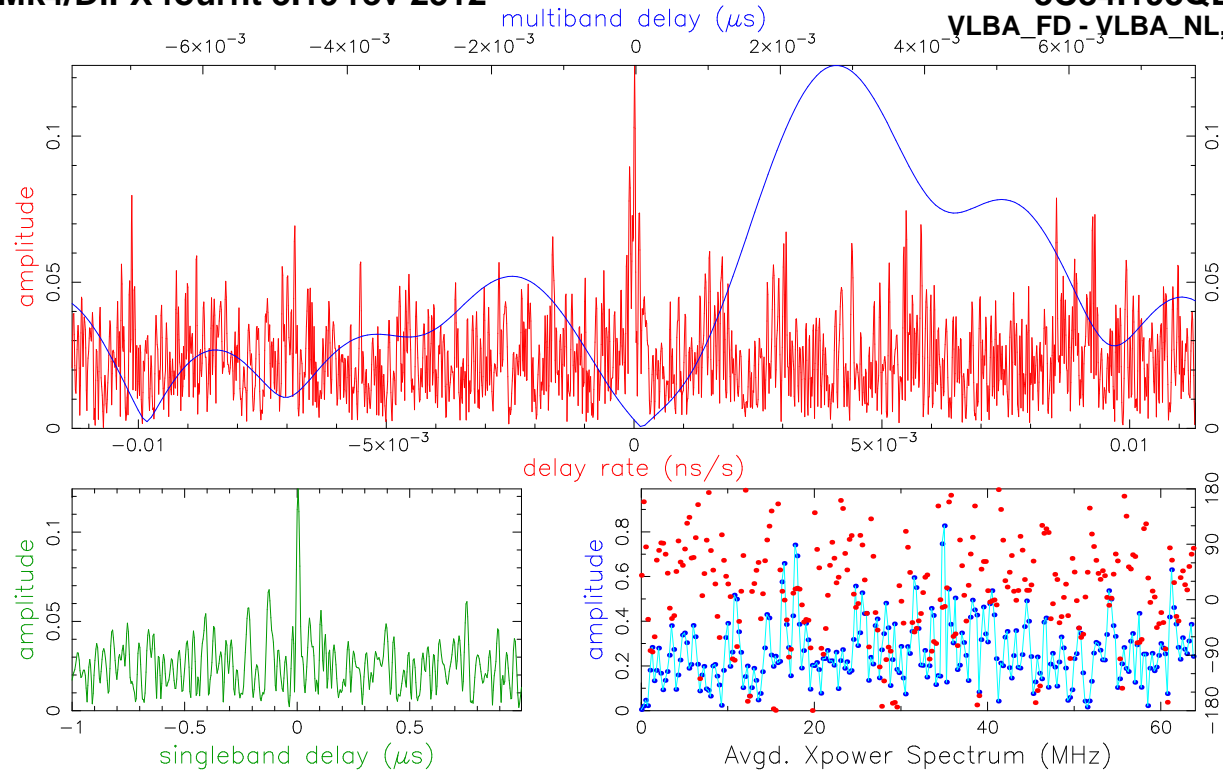
Fringe quality 0
SNR 6.6
Int time 344.332
Amp 0.129
Phase -90.1
PFD 1.4e-02
Delays (us)
SBD 0.000466
MBD -0.001635
Fringe rate (Hz)
-0.002526
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122506
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



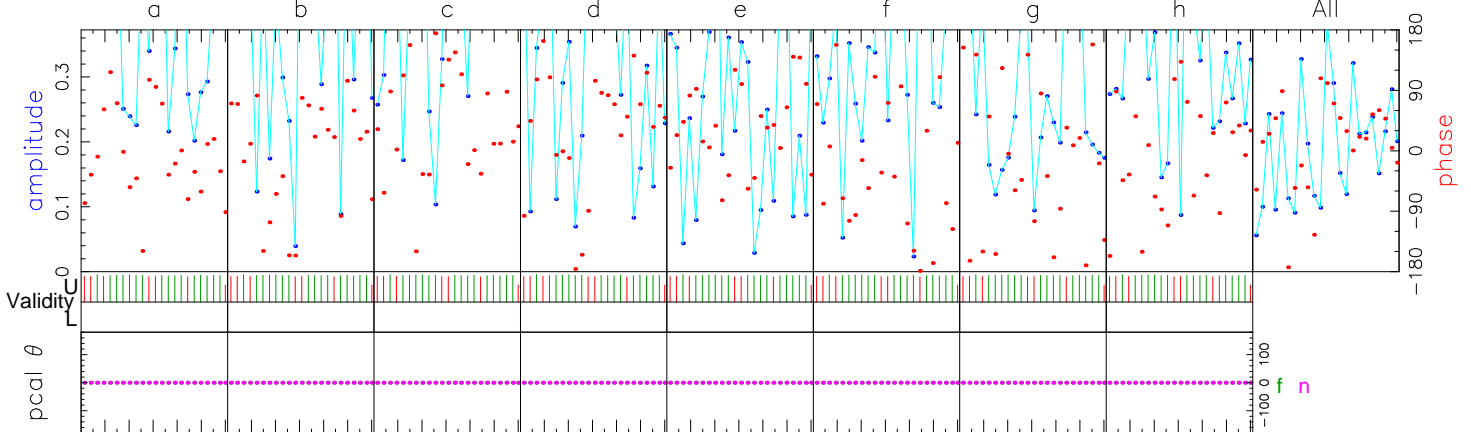
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-84.8	-98.9	-87.2	-100.5	-61.7	-85.8	173.2	-79.3	Phase	-90.1
	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.1	Ampl.	0.1
	257.9	95.3	53.6	257.0	64.8	255.7	137.9	268.1	Sbd box	257.1
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.53937612224E+03		Apriori delay (usec)		-2.53937448769E+03		Resid mbdelay (usec)		-1.63455E-03	+/- 1.7E-04
Sband delay (usec)	-2.53937402194E+03		Apriori clock (usec)		-2.8407417E+01		Resid sbdelay (usec)		4.65750E-04	+/- 1.3E-03
Phase delay (usec)	-2.53937449059E+03		Apriori clockrate (us/s)		-2.2499998E-07		Resid phdelay (usec)		-2.90521E-06	+/- 5.6E-07
Delay rate (us/s)	2.39519231760E-01		Apriori rate (us/s)		2.39519261087E-01		Resid rate (us/s)		-2.93272E-08	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		1.64015328410E-06		Resid phase (deg)		-90.1	+/- 17.4

ph/seg (deg) 62.6 41.8 Search (2048X32) 0.124 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 88.1 73.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 41.9 24.7 Inc. seg. avg. 0.157 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.5 43.0 Inc. frq. avg. 0.128 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 60.3 el 52.1 pa -91.3 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1829.771 -909.872 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fn..193QBF Output file: /Exps/c201d/v1/1234/No0057/fn.W.115.193QBF

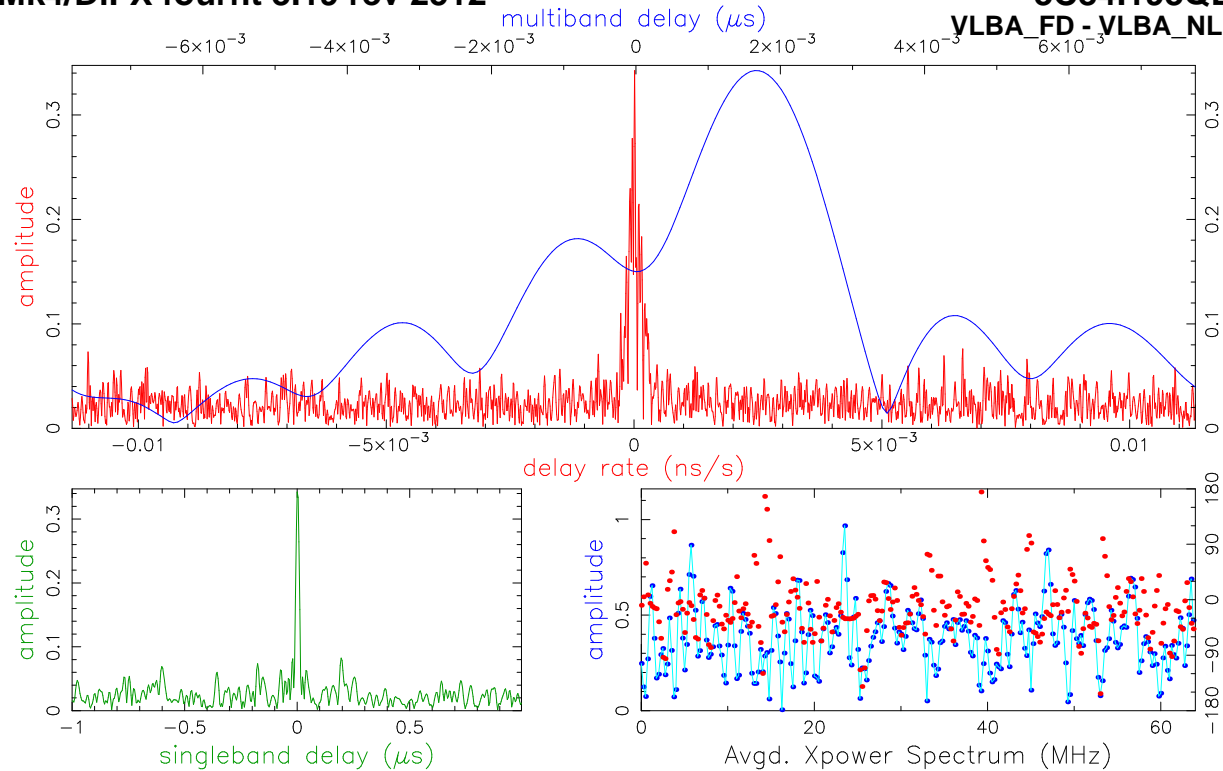


Fringe quality 0
SNR 6.3
Int time 344.334
Amp 0.124
Phase 30.9
PFD 7.6e-02
Delays (us)
SBD 0.003760
MBD 0.002778
Fringe rate (Hz) 0.001185
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122510
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	-2.53937170924E+03				-2.53937448769E+03				2.77845E-03	+/- 1.7E-04
Sband delay (usec)	-2.53937072744E+03				-2.8407417E+01				3.76025E-03	+/- 1.4E-03
Phase delay (usec)	-2.53937448669E+03				-2.2499998E-07				9.97373E-07	+/- 5.9E-07
Delay rate (us/s)	2.39519274845E-01				2.39519261087E-01				1.37574E-08	+/- 2.8E-09
Total phase (deg)			-102.1		1.64015328410E-06				30.9	+/- 18.2
	RMS	Theor.	Amplitude	0.124 +/- 0.020					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	65.2	43.6	Search (2048X32)	0.122					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	90.6	76.1	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	71.2	25.7	Inc. seg. avg.	0.151					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	61.9	44.9	Inc. frq. avg.	0.128					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
f: az 60.3 el 52.1 pa -91.3			n: az 79.2 el 65.3 pa -78.1						u,v (fr/asec) -1829.771 -909.872	simultaneous interpolator

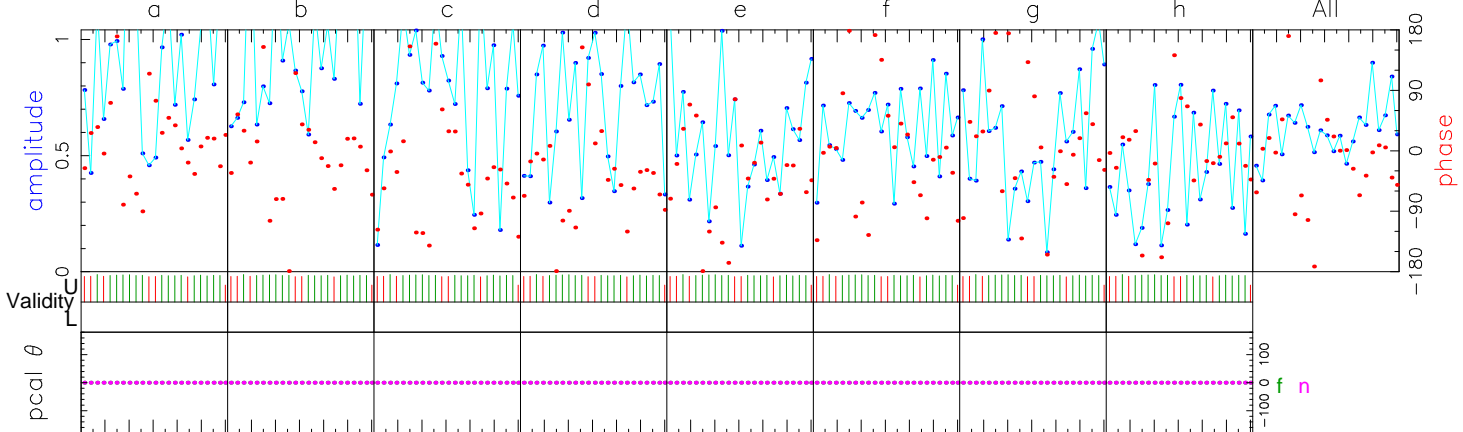


Fringe quality 7

SNR 17.6
Int time 344.332
Amp 0.347
Phase -18.7
PFD 0.0e+00
Delays (us)
SBD 0.001478
MBD 0.001681
Fringe rate (Hz) 0.001422
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122458
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



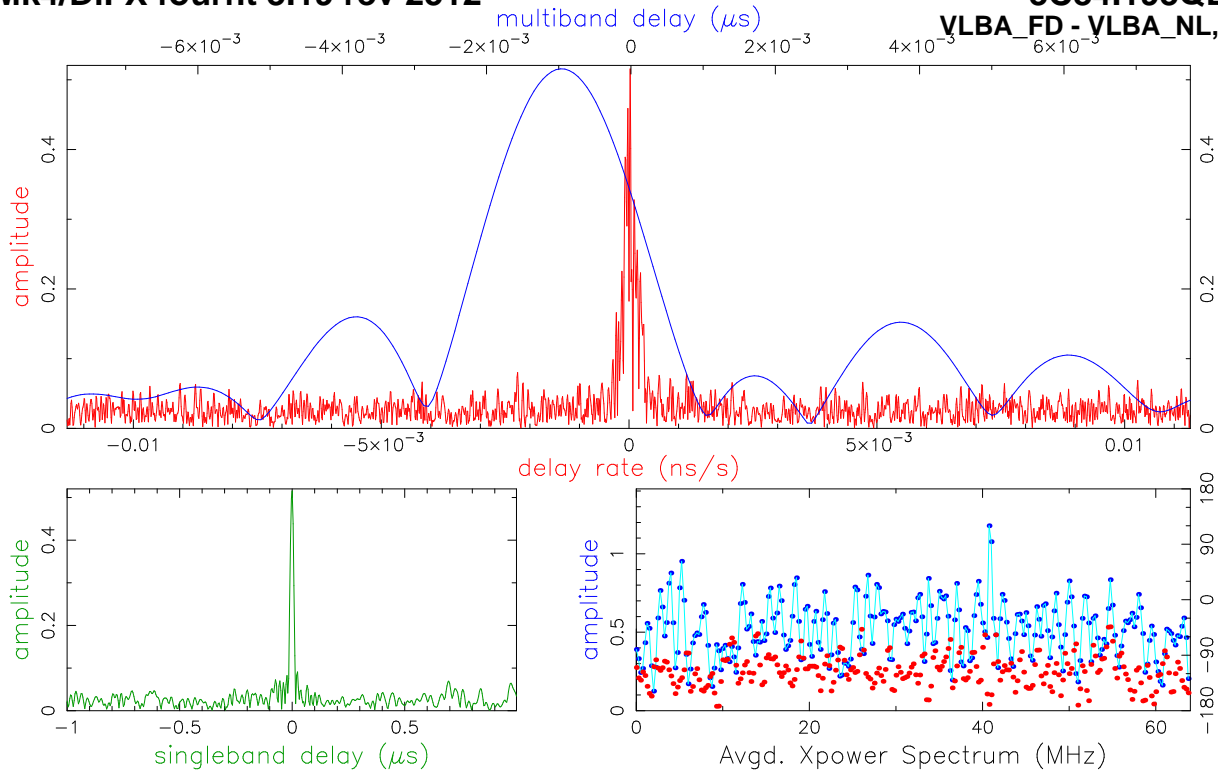
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-2.53937280622E+03	Apriori delay (usec)	-2.53937448769E+03	Resid mbdelay (usec)	1.68147E-03	+/-	6.2E-05
Sband delay (usec)	-2.53937300994E+03	Apriori clock (usec)	-2.8407417E+01	Resid sbdelay (usec)	1.47775E-03	+/-	4.9E-04
Phase delay (usec)	-2.53937448829E+03	Apriori clockrate (us/s)	-2.2499998E-07	Resid phdelay (usec)	-6.02553E-07	+/-	2.1E-07
Delay rate (us/s)	2.39519277594E-01	Apriori rate (us/s)	2.39519261087E-01	Resid rate (us/s)	1.65073E-08	+/-	1.0E-09
Total phase (deg)	-151.7	Apriori accel (us/s/s)	1.64015328410E-06	Resid phase (deg)	-18.7	+/-	6.5

ph/seg (deg)	67.7	RMS	15.6	Theor.	0.347 +/- 0.020	PCal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	84.4	Search (2048X32)	0.318	Interp.	0.000	PCal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	25.3	Inc. seg. avg.	0.595	Inc. frq. avg.	0.363	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	40.3	Inc. frq. avg.	0.363			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

f: az 60.3 el 52.1 pa -91.3 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1829.771 -909.872 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fn...193QBF Output file: /Exps/c201d/v1/1234/No0057/fn.W.83.193QBF

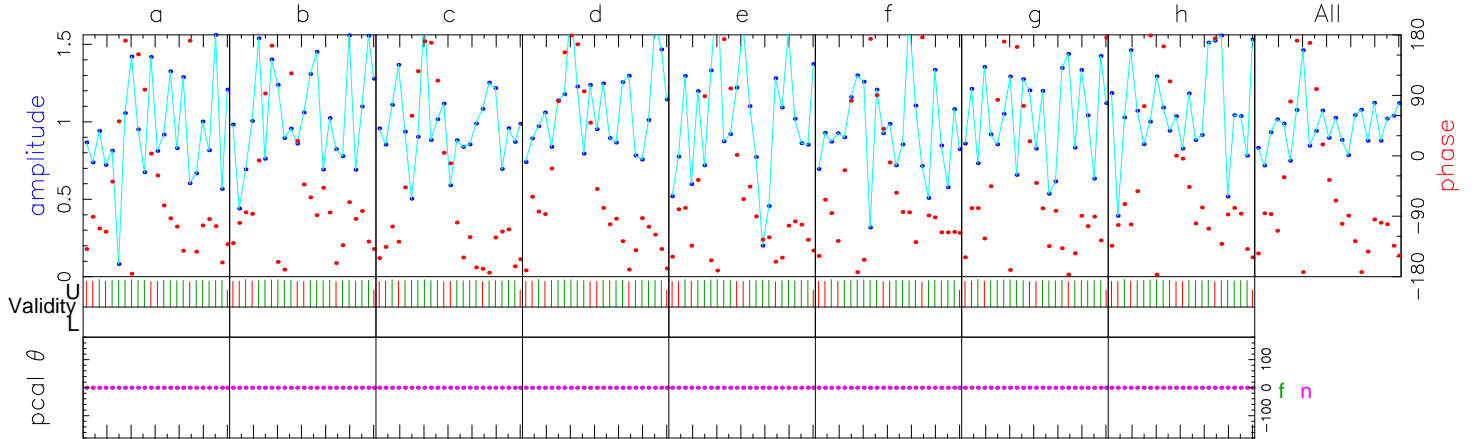


Fringe quality 7

SNR 26.4
Int time 344.333
Amp 0.521
Phase -119.5
PFD 0.0e+00
Delays (us)
SBD -0.001251
MBD -0.000989
Fringe rate (Hz) 0.001460
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

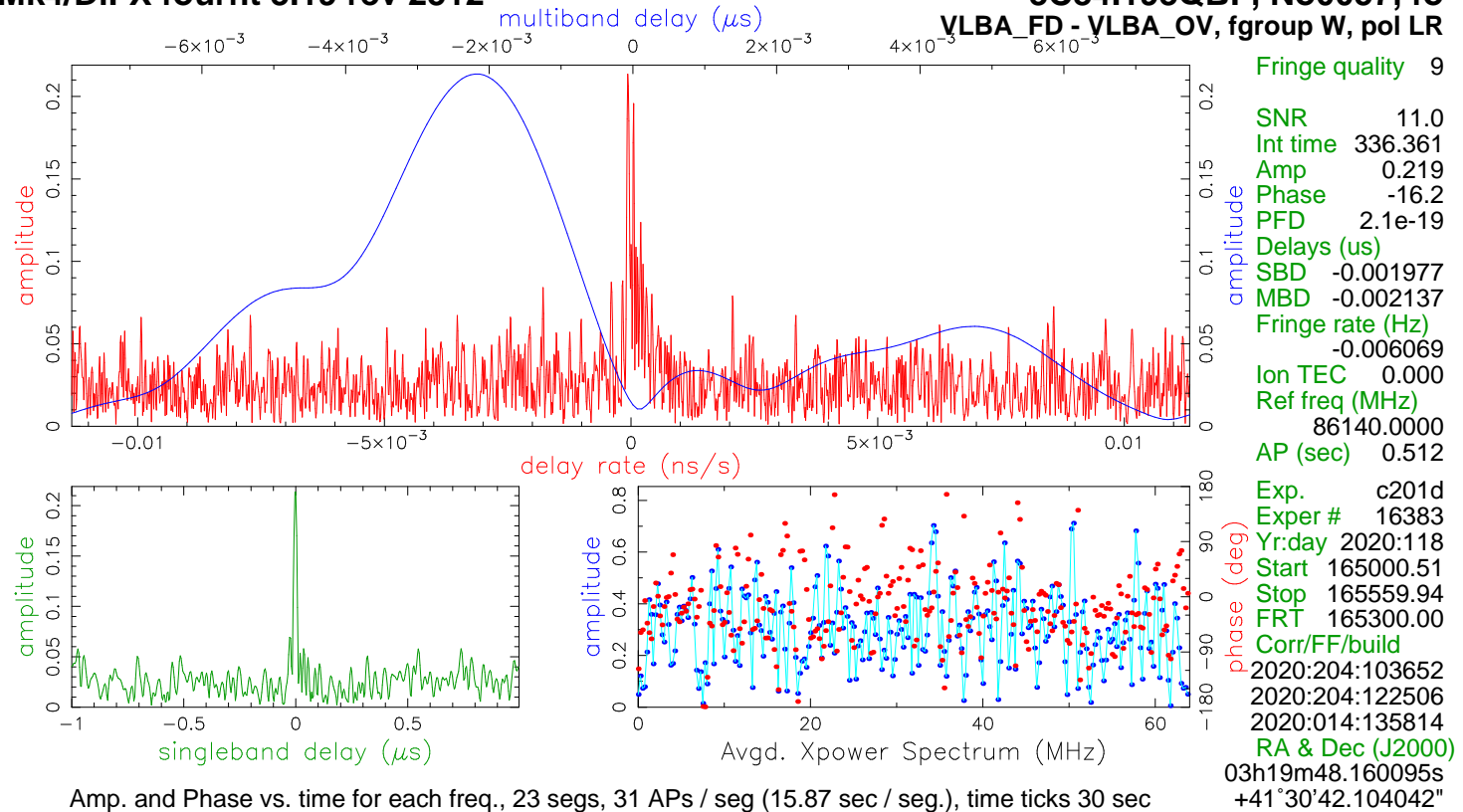
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122502
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

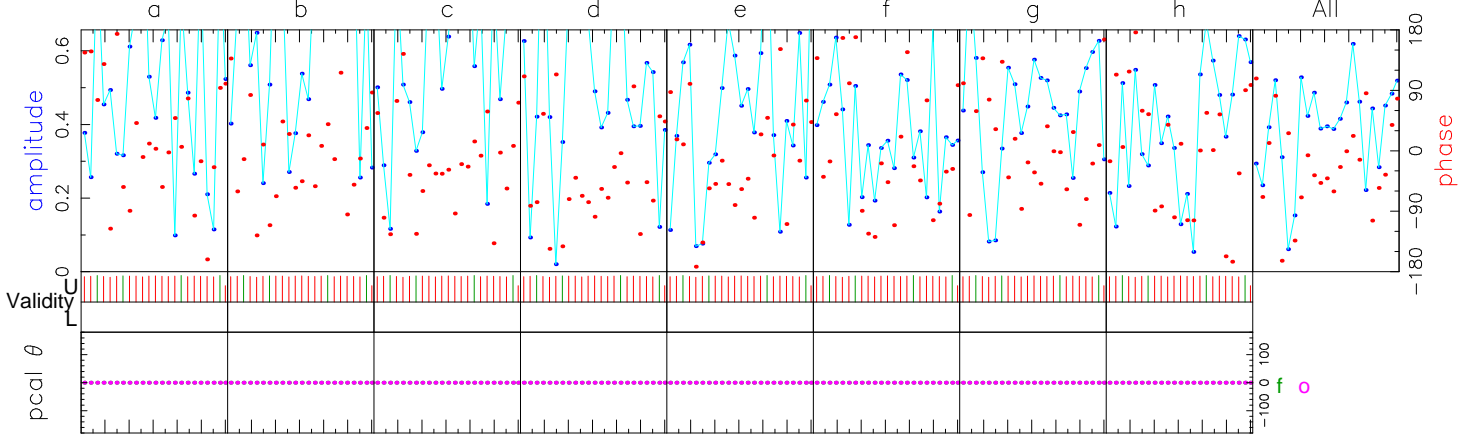


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-118.8	-101.4	-147.0	-128.7	-114.4	-106.2	-122.6	-114.6	Phase	-119.5
	0.5	0.5	0.6	0.5	0.6	0.4	0.5	0.5	Ampl.	0.5
	257.0	256.7	256.2	257.0	256.9	256.3	256.8	256.7	Sbd box	256.7
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	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)	-2.53937547716E+03		Apriori delay (usec)		-2.53937448769E+03		Resid mbdelay (usec)		-9.89469E-04	+/- 4.1E-05
Sband delay (usec)	-2.53937573919E+03		Apriori clock (usec)		-2.8407417E+01		Resid sbdelay (usec)		-1.25150E-03	+/- 3.3E-04
Phase delay (usec)	-2.53937449154E+03		Apriori clockrate (us/s)		-2.2499998E-07		Resid phdelay (usec)		-3.85209E-06	+/- 1.4E-07
Delay rate (us/s)	2.39519278033E-01		Apriori rate (us/s)		2.39519261087E-01		Resid rate (us/s)		1.69459E-08	+/- 6.7E-10
Total phase (deg)			Apriori accel (us/s/s)		1.64015328410E-06		Resid phase (deg)		-119.5	+/- 4.3

ph/seg (deg) 67.8 10.4 Search (2048X32) 0.487 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 91.9 18.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 15.3 6.1 Inc. seg. avg. 0.957 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 7.6 10.7 Inc. frq. avg. 0.527 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 60.3 el 52.1 pa -91.3 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1829.771 -909.872 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fn..193QBF Output file: /Exps/c201d/v1/1234/No0057/fn.W.95.193QBF



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



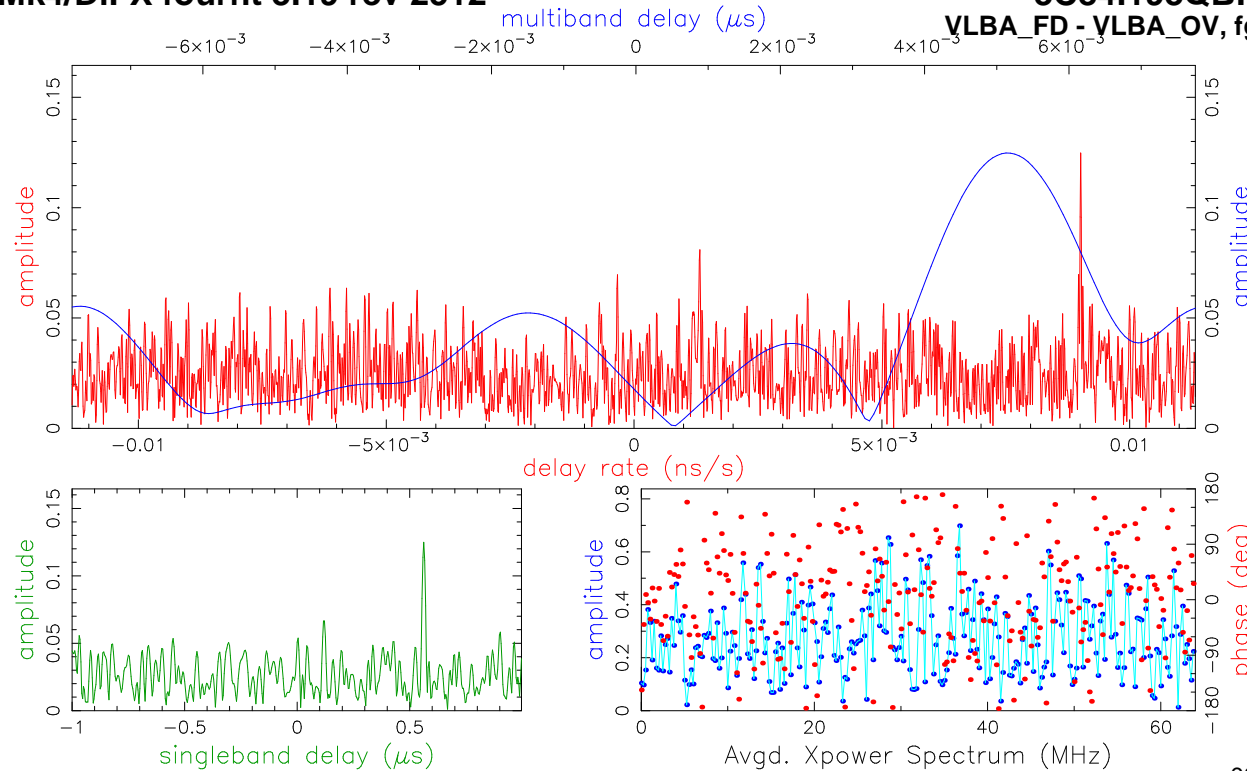
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
fo	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	1.85859766257E+03	Apriori delay (usec)	1.85859979975E+03	Resid mbdelay (usec)	-2.13719E-03	+/-	9.9E-05
Sband delay (usec)	1.85859782275E+03	Apriori clock (usec)	-1.6191477E+01	Resid sbdelay (usec)	-1.97700E-03	+/-	7.8E-04
Phase delay (usec)	1.85859979923E+03	Apriori clockrate (us/s)	-9.2000002E-08	Resid phdelay (usec)	-5.21832E-07	+/-	3.4E-07
Delay rate (us/s)	-8.96758800365E-02	Apriori rate (us/s)	-8.96758095818E-02	Resid rate (us/s)	-7.04547E-08	+/-	1.6E-09
Total phase (deg)	254.1	Apriori accel (us/s/s)	-1.71107174979E-05	Resid phase (deg)	-16.2	+/-	10.4

ph/seg (deg)	67.2	Theor.	25.0	Amplitude	0.219 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	96.7		43.6	Search (2048X32)	0.211	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	28.8		14.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	43.0		25.7	Inc. seg. avg.	0.353	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.222	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

f: az 60.3 el 52.1 pa -91.3 o: az 65.0 el 44.4 pa -74.6 u,v (fr/asec) 666.582 -1829.192 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fo...193QBF Output file: /Exps/c201d/v1/1234/No0057/fo.W.117.193QBF

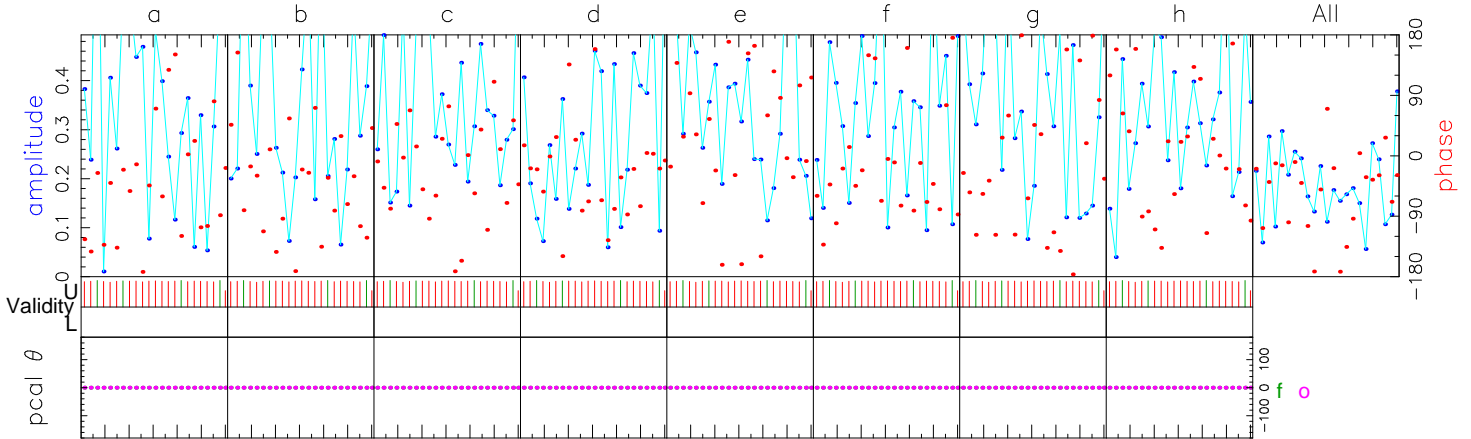


Fringe quality 0

SNR 6.3
Int time 336.362
Amp 0.164
Phase -42.9
PFD 9.8e-02
Delays (us)
SBD 0.562347
MBD 0.005143
Fringe rate (Hz) 0.777657
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122510
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



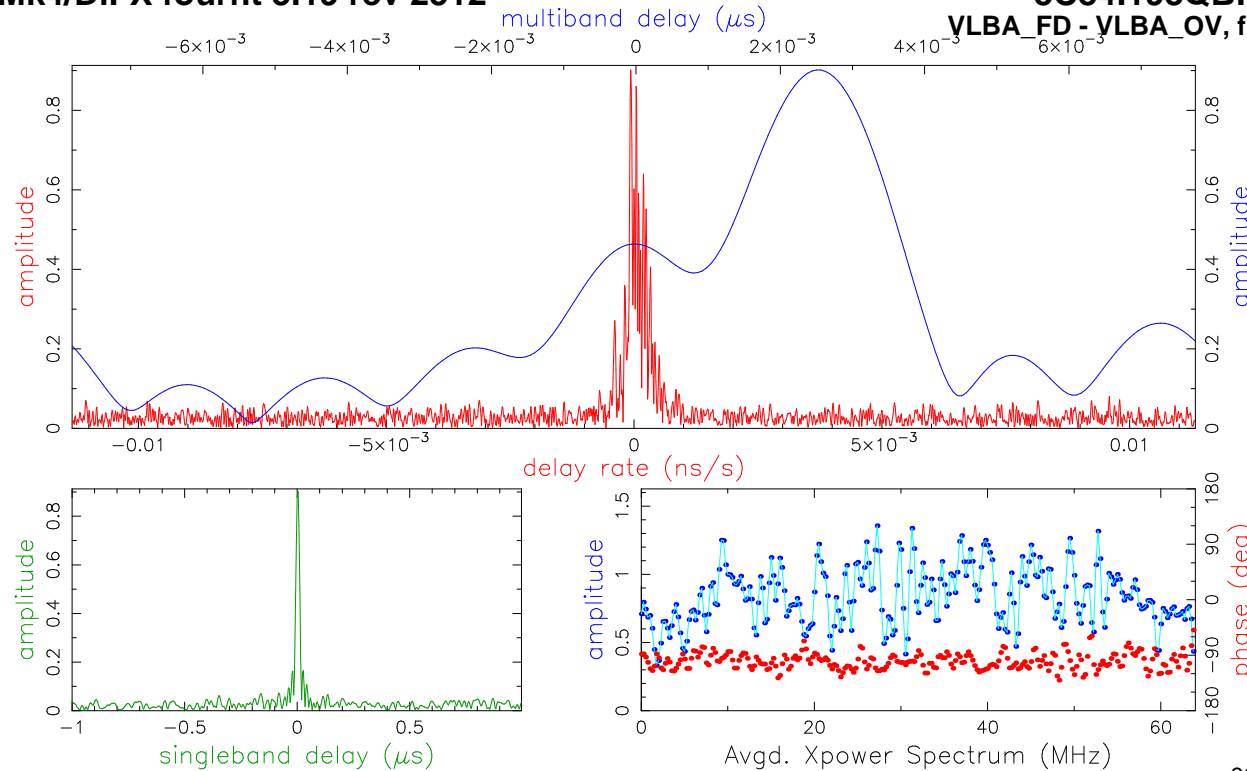
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-51.9	-61.6	-23.9	-34.1	40.1	-53.2	-72.4	-43.4	Phase	-42.9
	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	Ampl.	0.2
	252.8	487.3	286.7	40.1	115.9	401.8	417.5	210.3	Sbd box	401.0
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fo	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.85916744316E+03	Apriori delay (usec)	1.85859979975E+03	Resid mbdelay (usec)	5.14340E-03	+/-	1.7E-04
Sband delay (usec)	1.85916214675E+03	Apriori clock (usec)	-1.6191477E+01	Resid sbdelay (usec)	5.62347E-01	+/-	1.4E-03
Phase delay (usec)	1.85859979837E+03	Apriori clockrate (us/s)	-9.2000002E-08	Resid phdelay (usec)	-1.38496E-06	+/-	5.9E-07
Delay rate (us/s)	-8.96667817578E-02	Apriori rate (us/s)	-8.96758095818E-02	Resid rate (us/s)	9.02782E-06	+/-	2.8E-09
Total phase (deg)	227.3	Apriori accel (us/s/s)	-1.71107174979E-05	Resid phase (deg)	-42.9	+/-	18.3

ph/seg (deg)	RMS 59.6	Theor. 43.9	Amplitude Search (2048X32)	0.164 +/- 0.026	0.117	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	76.5	76.6	Interp.	0.000	0.117	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
ph/frq (deg)	38.2	25.9	Inc. seg. avg.	0.188	0.117	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
amp/frq (%)	34.6	45.2	Inc. frq. avg.	0.166	0.117	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

f: az 60.3 el 52.1 pa -91.3 o: az 65.0 el 44.4 pa -74.6 u,v (fr/asec) 666.582 -1829.192 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fo..193QBF Output file: /Exps/c201d/v1/1234/No0057/fo.W.137.193QBF

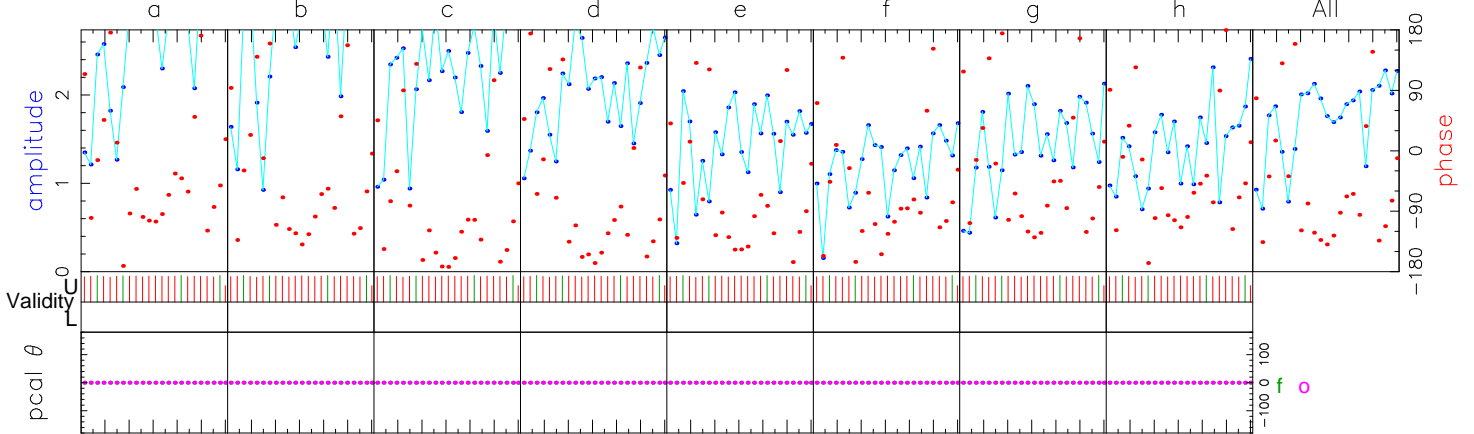


Fringe quality 4

SNR 45.8
Int time 336.360
Amp 0.913
Phase -100.4
PFD 0.0e+00
Delays (us)
SBD 0.002467
MBD 0.002499
Fringe rate (Hz)
-0.005736
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122458
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	-74.6	-95.8	-136.1	-130.8	-104.7	-95.6	-89.5	-70.9	Phase	-100.4
	1.4	1.4	1.2	1.1	0.7	0.6	0.7	0.7	Ampl.	1.0
	257.8	257.1	257.6	257.8	257.9	258.0	257.5	257.7	Sbd box	257.6
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.85860229838E+03	Apriori delay (usec)	1.85859979975E+03	Resid mbdelay (usec)	2.49863E-03	+/-	2.4E-05
Sband delay (usec)	1.85860226700E+03	Apriori clock (usec)	-1.6191477E+01	Resid sbdelay (usec)	2.46725E-03	+/-	1.9E-04
Phase delay (usec)	1.85859979651E+03	Apriori clockrate (us/s)	-9.2000002E-08	Resid phdelay (usec)	-3.23850E-06	+/-	8.1E-08
Delay rate (us/s)	-8.96758761664E-02	Apriori rate (us/s)	-8.96758095818E-02	Resid rate (us/s)	-6.65846E-08	+/-	3.9E-10
Total phase (deg)	169.8	Apriori accel (us/s/s)	-1.71107174979E-05	Resid phase (deg)	-100.4	+/-	2.5

ph/seg (deg)	RMS 74.5	Theor. 6.0	Amplitude 0.913 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	74.5	6.0	Search (2048X32) 0.896	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	101.8	10.5	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	25.5	3.5	Inc. seg. avg. 1.720	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s) -0.011 0.011
	34.1	6.2	Inc. frq. avg. 0.978	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC) 0.00 0.00

f: az 60.3 el 52.1 pa -91.3

o: az 65.0 el 44.4 pa -74.6

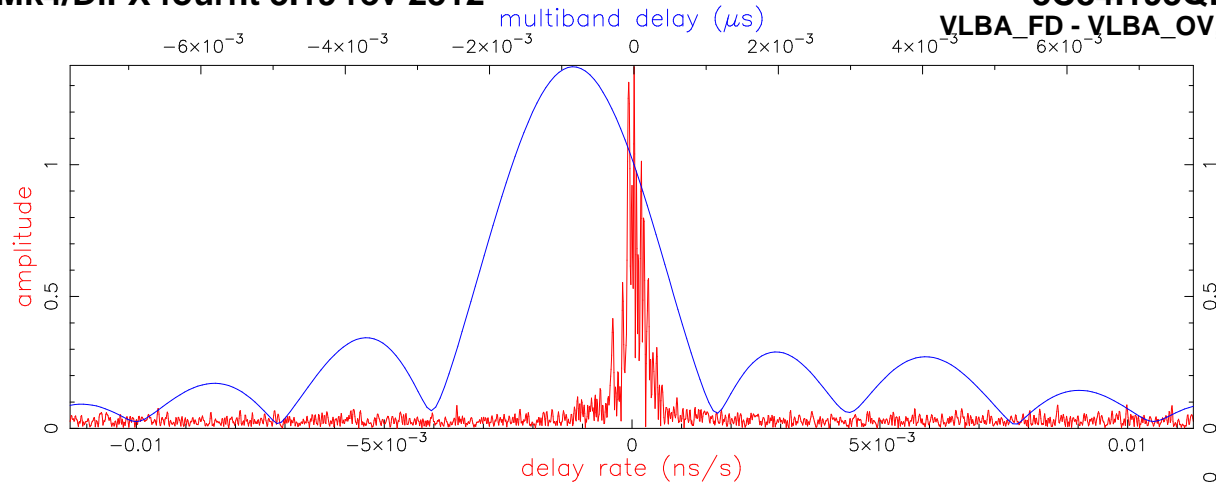
u,v (fr/asec) 666.582 -1829.192

simultaneous interpolator

Control file: cf_1234_gmva

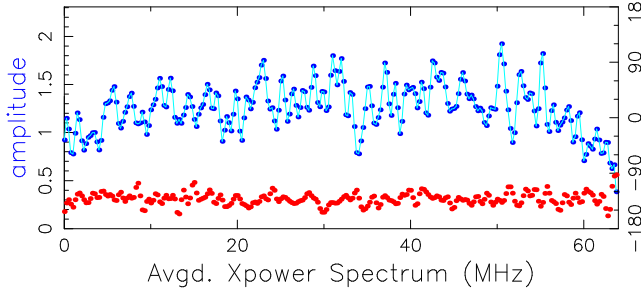
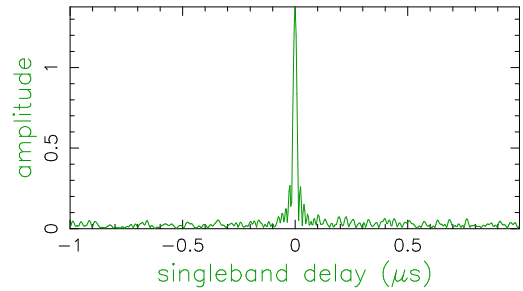
Input file: /Exps/c201d/v1/1234/No0057/fo...193QBF

Output file: /Exps/c201d/v1/1234/No0057/fo.W.84.193QBF



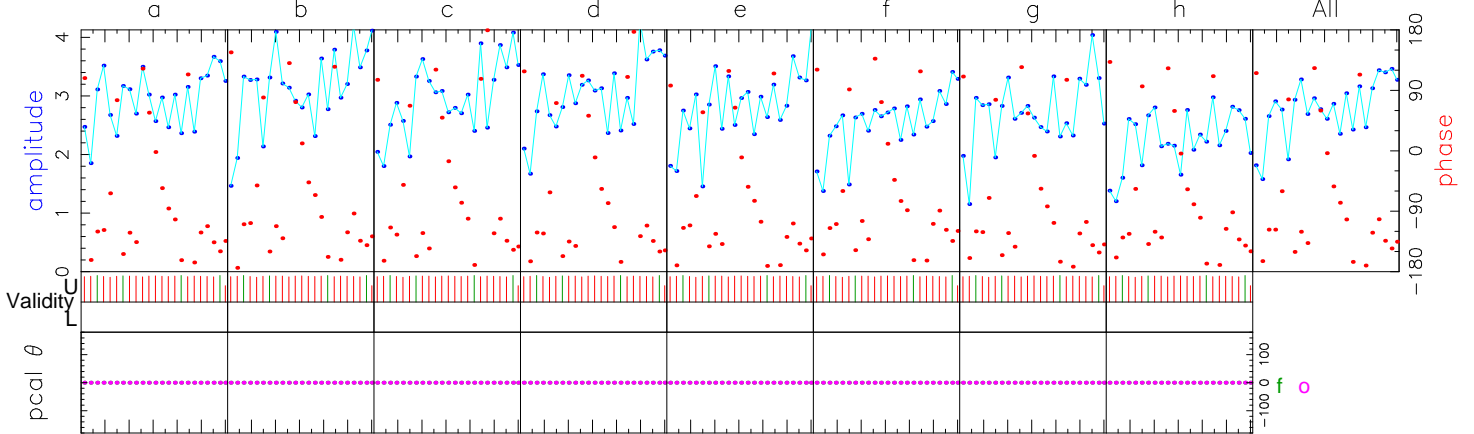
Fringe quality 5

SNR 69.0
Int time 336.363
Amp 1.377
Phase -131.3
PFD 0.0e+00
Delays (us)
SBD -0.000810
MBD -0.000863
Fringe rate (Hz)
0.004223
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

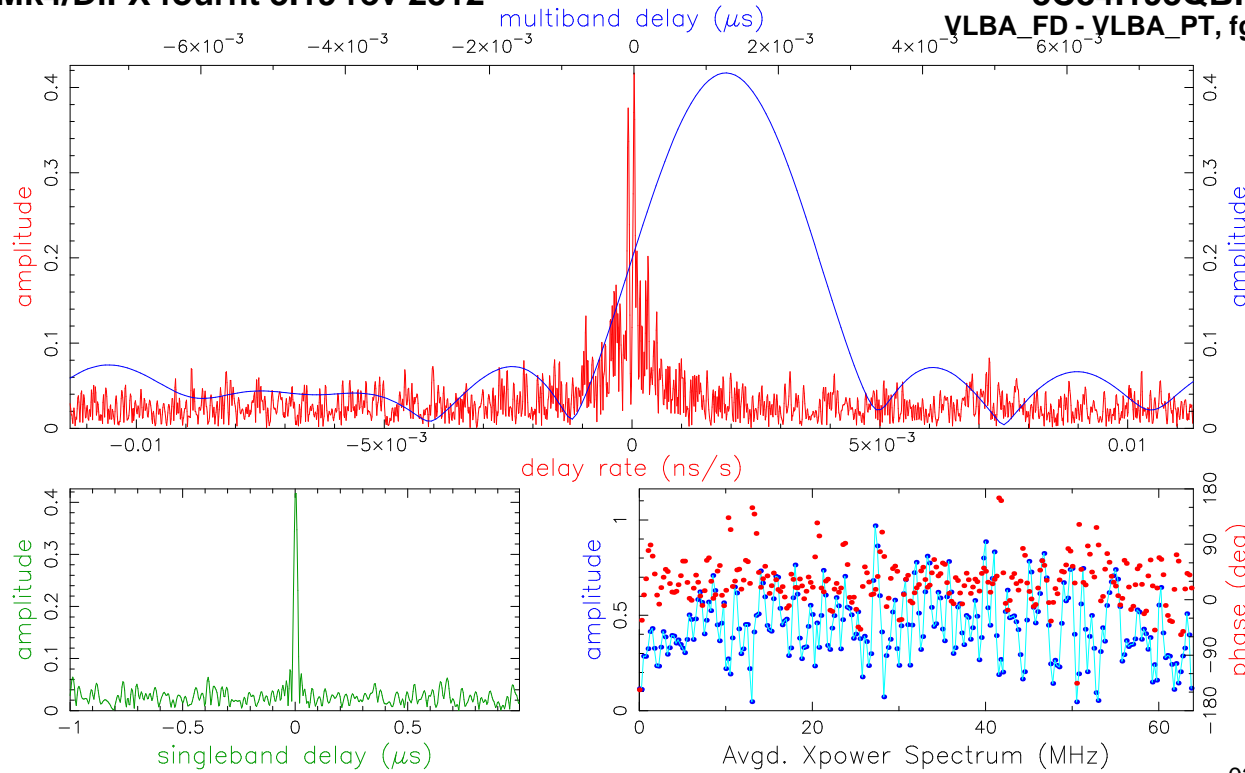


Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122502
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

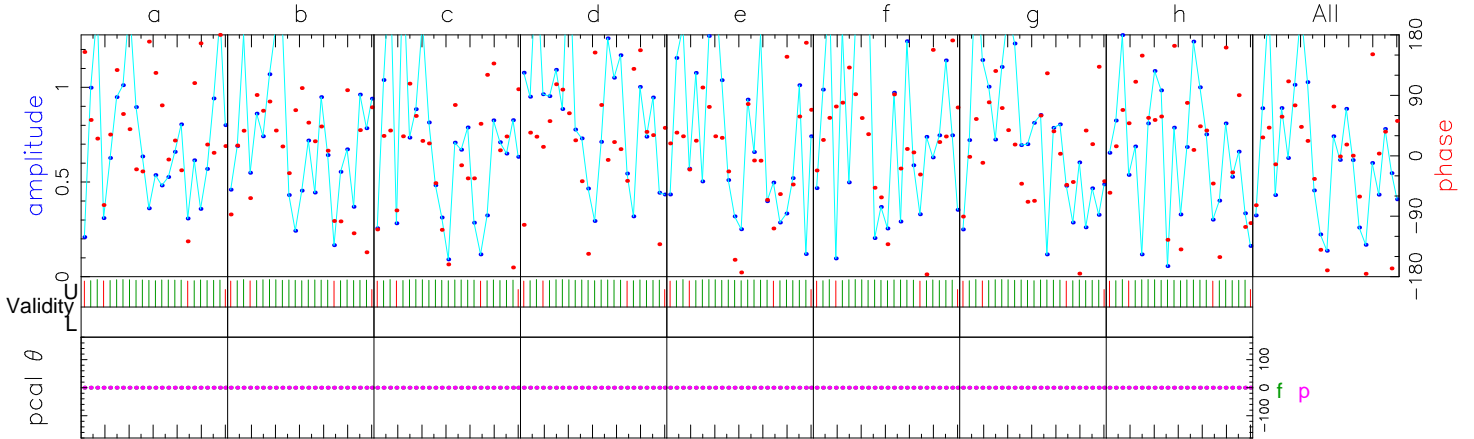


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		1.85859893716E+03			1.85859979975E+03					
Sband delay (usec)		1.85859898950E+03			-1.6191477E+01					
Phase delay (usec)		1.85859979552E+03			-9.2000002E-08					
Delay rate (us/s)		-8.96757605531E-02			-8.96758095818E-02					
Total phase (deg)			139.0		-1.71107174979E-05					
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
ph/seg (deg)	74.5	4.0			1.303					
amp/seg (%)	107.7	6.9			0.000					
ph/frq (deg)	5.3	2.3			2.766					
amp/frq (%)	9.8	4.1			1.374					
f: az 60.3 el 52.1 pa -91.3										
o: az 65.0 el 44.4 pa -74.6										
u,v (fr/asec) 666.582 -1829.192										
Control file: cf_1234_gmva										
Input file: /Exps/c201d/v1/1234/No0057/fo...193QBF										
Output file: /Exps/c201d/v1/1234/No0057/fo.W.96.193QBF										



Fringe quality 9
 SNR 21.8
 Int time 349.720
 Amp 0.426
 Phase 38.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.001988
 MBD 0.001242
 Fringe rate (Hz) 0.003522
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.51
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122503
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		3.11819883950E+02			3.11818642325E+02				1.24162E-03	+/- 5.0E-05
Sband delay (usec)		3.11820629825E+02			-1.3383242E+01				1.98750E-03	+/- 4.0E-04
Phase delay (usec)		3.11818643570E+02			-9.4999990E-08				1.24462E-06	+/- 1.7E-07
Delay rate (us/s)		-1.98351953953E-02			-1.98352362798E-02				4.08845E-08	+/- 8.2E-10
Total phase (deg)			344.6		-5.77236990164E-06				38.6	+/- 5.3
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
SampCntNorm: enabled										
nlags: 256 t_cohere infinite										
sb window (us) -1.000 1.000										
mb window (us) -0.008 0.008										
dr window (ns/s) -0.011 0.011										
ion window (TEC) 0.00 0.00										

ph/seg (deg) 82.8 12.6
 amp/seg (%) 98.8 22.0
 ph/frq (deg) 11.4 7.4
 amp/frq (%) 12.6 13.0
 f: az 60.3 el 52.1 pa -91.3
 Control file: cf_1234_gmva

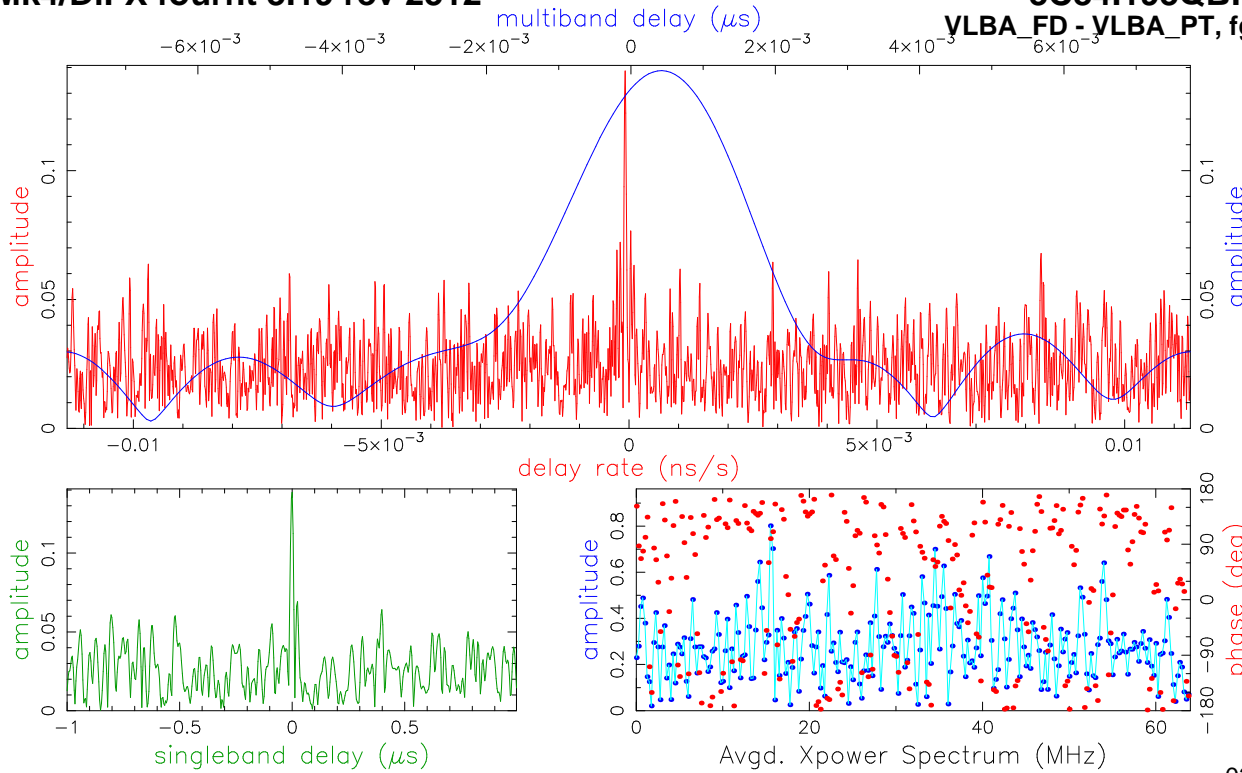
p: az 64.2 el 50.6 pa -84.3
 Input file: /Exps/c201d/v1/1234/No0057/fp..193QBF

u,v (fr/asec) 145.395 -761.160
 Output file: /Exps/c201d/v1/1234/No0057/fp.W.100.193QBF

simultaneous interpolator

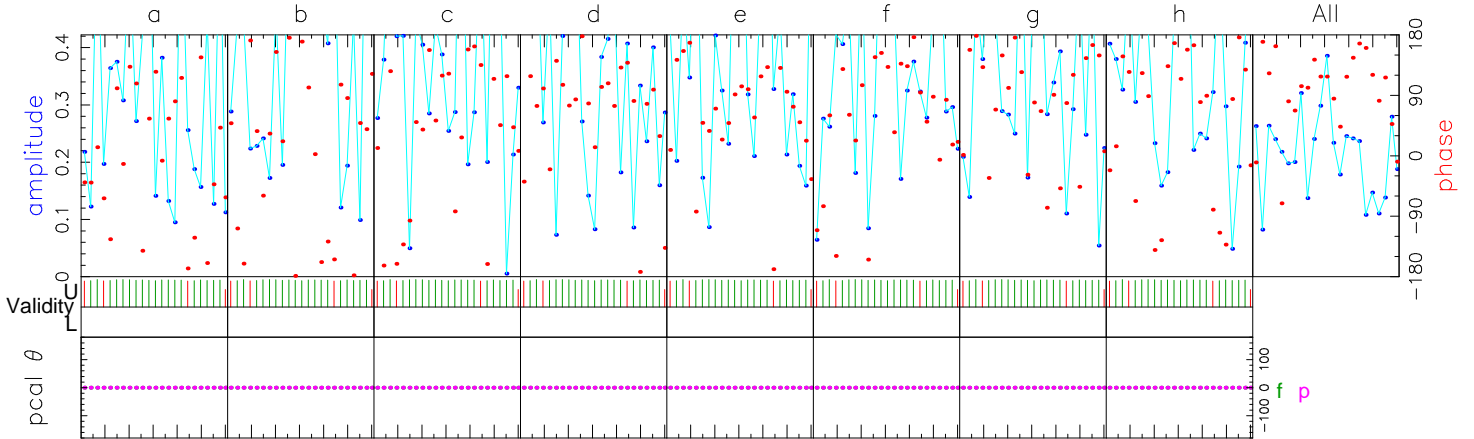
Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, fp
VLBA_FD - VLBA_PT, fgroup W, pol LR



Fringe quality 0
SNR 7.2
Int time 349.718
Amp 0.141
Phase 107.2
PFD 1.8e-04
Delays (us)
SBD -0.001466
MBD 0.000362
Fringe rate (Hz)
-0.006464
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122506
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

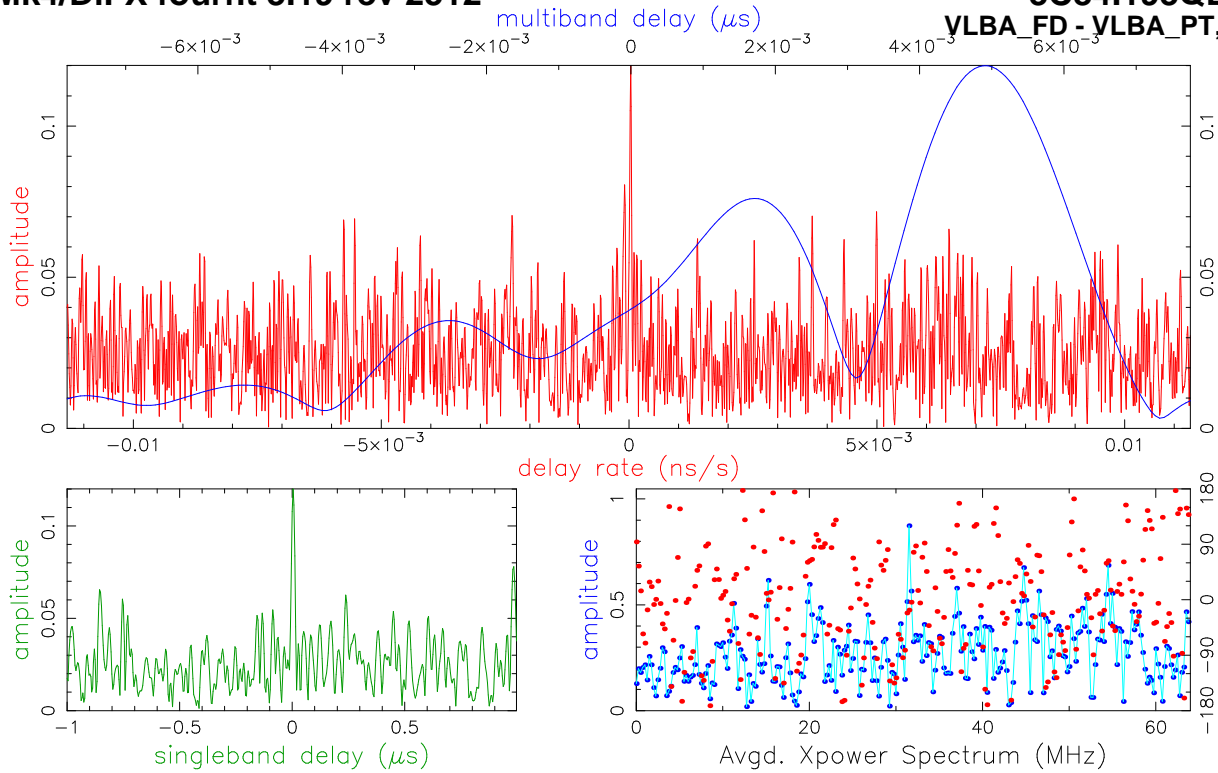


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	3.11819004623E+02	Apriori delay (usec)		3.11818642325E+02	Resid mbdelay (usec)		3.62297E-04	+/-	1.5E-04	
Sband delay (usec)	3.11817176325E+02	Apriori clock (usec)		-1.3383242E+01	Resid sbdelay (usec)		-1.46600E-03	+/-	1.2E-03	
Phase delay (usec)	3.11818645781E+02	Apriori clockrate (us/s)		-9.4999990E-08	Resid phdelay (usec)		3.45559E-06	+/-	5.1E-07	
Delay rate (us/s)	-1.98353113153E-02	Apriori rate (us/s)		-1.98352362798E-02	Resid rate (us/s)		-7.50355E-08	+/-	2.5E-09	
Total phase (deg)	53.1		Apriori accel (us/s/s)		-5.77236990164E-06	Resid phase (deg)		107.2	+/-	15.9

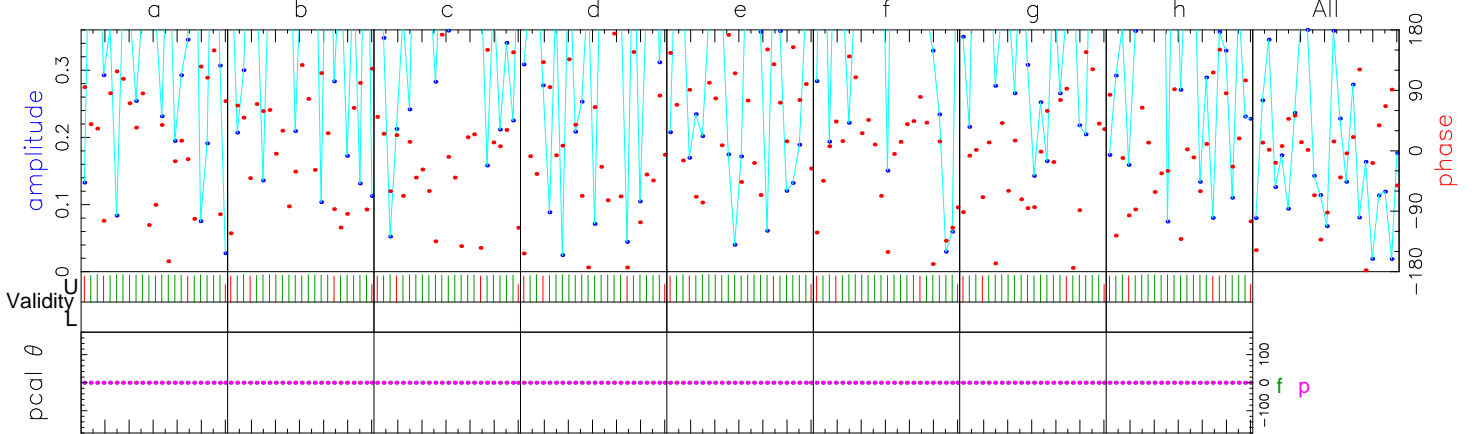
ph/seg (deg)	60.0	38.2	Amplitude	0.141 +/- 0.020	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
amp/seg (%)	74.0	66.6	Search (2048X32)	0.138	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000	
ph/frq (deg)	31.3	22.5	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008	0.008
amp/frq (%)	33.5	39.3	Inc. seg. avg.	0.177	Sample rate(MISamp/s): 128		Data rate(Mb/s): 2048		dr window (ns/s)	-0.011	0.011
			Inc. frq. avg.	0.141	nlags: 256		t_cohere infinite		ion window (TEC)	0.00	0.00

f: az 60.3 el 52.1 pa -91.3 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 145.395 -761.160 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fp..193QBF Output file: /Exps/c201d/v1/1234/No0057/fp.W.116.193QBF



Fringe quality 0
SNR 6.1
Int time 349.720
Amp 0.120
Phase 5.6
PFD 2.0e-01
Delays (us)
SBD 0.004277
MBD 0.004909
Fringe rate (Hz) 0.003174
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122511
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

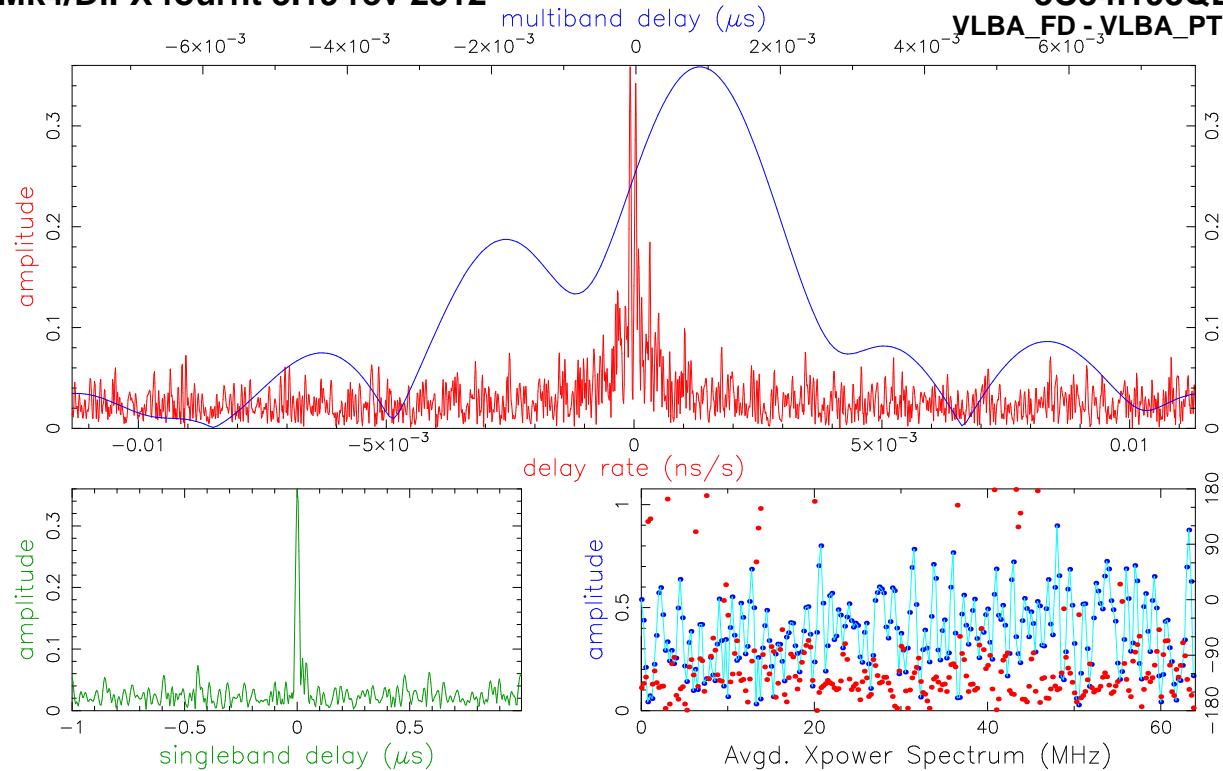


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	3.11823551809E+02	Apriori delay (usec)		3.11818642325E+02	Resid mbdelay (usec)		4.90948E-03	+/-	1.8E-04	
Sband delay (usec)	3.11822919575E+02	Apriori clock (usec)		-1.3383242E+01	Resid sbdelay (usec)		4.27725E-03	+/-	1.4E-03	
Phase delay (usec)	3.11818642507E+02	Apriori clockrate (us/s)		-9.4999990E-08	Resid phdelay (usec)		1.81848E-07	+/-	6.0E-07	
Delay rate (us/s)	-1.98351994312E-02	Apriori rate (us/s)		-1.98352362798E-02	Resid rate (us/s)		3.68485E-08	+/-	2.9E-09	
Total phase (deg)		311.6	Apriori accel (us/s/s)		-5.77236990164E-06	Resid phase (deg)		5.6	+/-	18.7

ph/seg (deg)	RMS 73.4	Theor. 44.7	Amplitude Search (2048X32)	0.120 +/- 0.020	0.118	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5	
amp/seg (%)	102.3	78.1	Interp.	0.000	0.118	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000
ph/frq (deg)	39.7	26.4	Inc. seg. avg.	0.136	0.118	Bits/sample: 2x2		mb window (us)	-0.008 0.008
amp/frq (%)	43.9	46.1	Inc. frq. avg.	0.124	0.118	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011
						Data rate(Mb/s): 2048		ion window (TEC)	0.00 0.00

f: az 60.3 el 52.1 pa -91.3 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 145.395 -761.160 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fp..193QBF Output file: /Exps/c201d/v1/1234/No0057/fp.W.140.193QBF

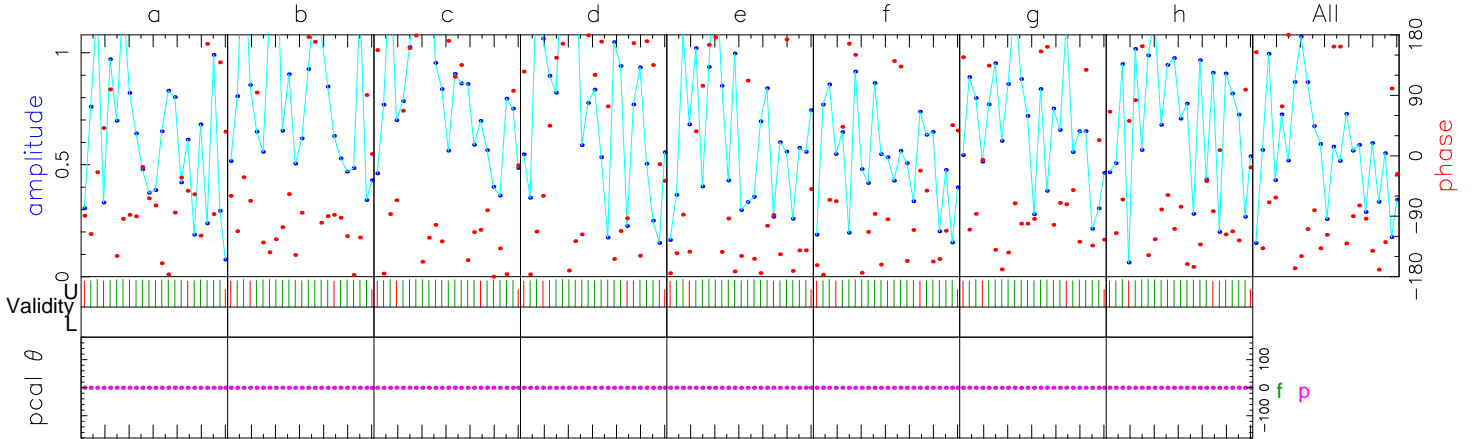


Fringe quality 8

SNR 18.4
Int time 349.718
Amp 0.360
Phase -129.9
PFD 0.0e+00
Delays (us)
SBD 0.000813
MBD 0.000898
Fringe rate (Hz)
-0.006284
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122459
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



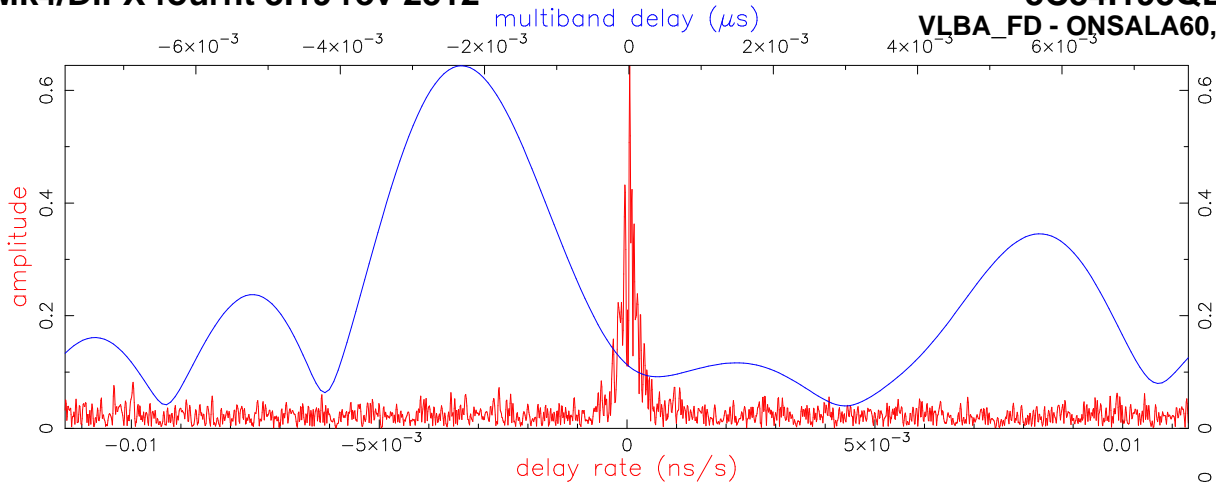
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-92.1	-110.8	-154.9	-161.8	-153.0	-129.9	-116.9	-108.9	Phase	-129.9
	0.3	0.5	0.5	0.5	0.4	0.2	0.4	0.4	Ampl.	0.4
	256.5	256.6	257.5	257.4	257.6	257.9	257.1	257.2	Sbd box	257.2
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	3.11819540091E+02	Apriori delay (usec)	3.11818642325E+02	Resid mbdelay (usec)	8.97766E-04	+/-	5.9E-05
Sband delay (usec)	3.11819455325E+02	Apriori clock (usec)	-1.3383242E+01	Resid sbdelay (usec)	8.13000E-04	+/-	4.7E-04
Phase delay (usec)	3.11818638137E+02	Apriori clockrate (us/s)	-9.4999990E-08	Resid phdelay (usec)	-4.18786E-06	+/-	2.0E-07
Delay rate (us/s)	-1.98353092350E-02	Apriori rate (us/s)	-1.98352362798E-02	Resid rate (us/s)	-7.29552E-08	+/-	9.7E-10
Total phase (deg)	176.1	Apriori accel (us/s/s)	-5.77236990164E-06	Resid phase (deg)	-129.9	+/-	6.2

ph/seg (deg)	61.8	Theor.	14.9	Search (2048X32)	0.350	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	88.5		26.0	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)	27.6		8.8	Inc. seg. avg.	0.552	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	26.6		15.4	Inc. frq. avg.	0.389	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

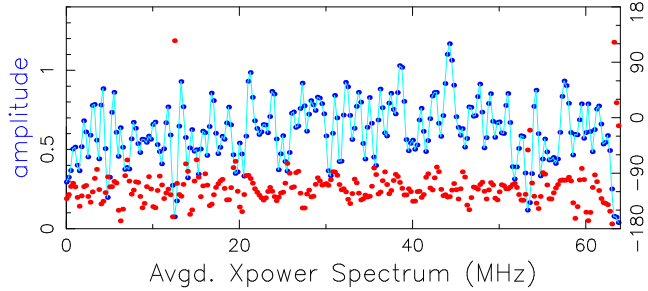
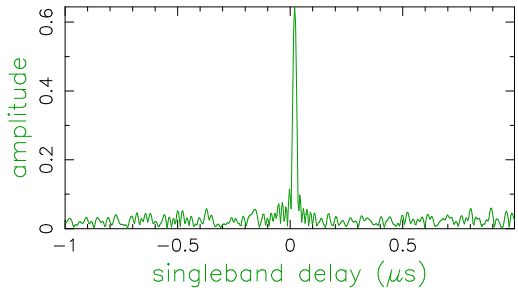
f: az 60.3 el 52.1 pa -91.3 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 145.395 -761.160 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fp..193QBF Output file: /Exps/c201d/v1/1234/No0057/fp.W.87.193QBF



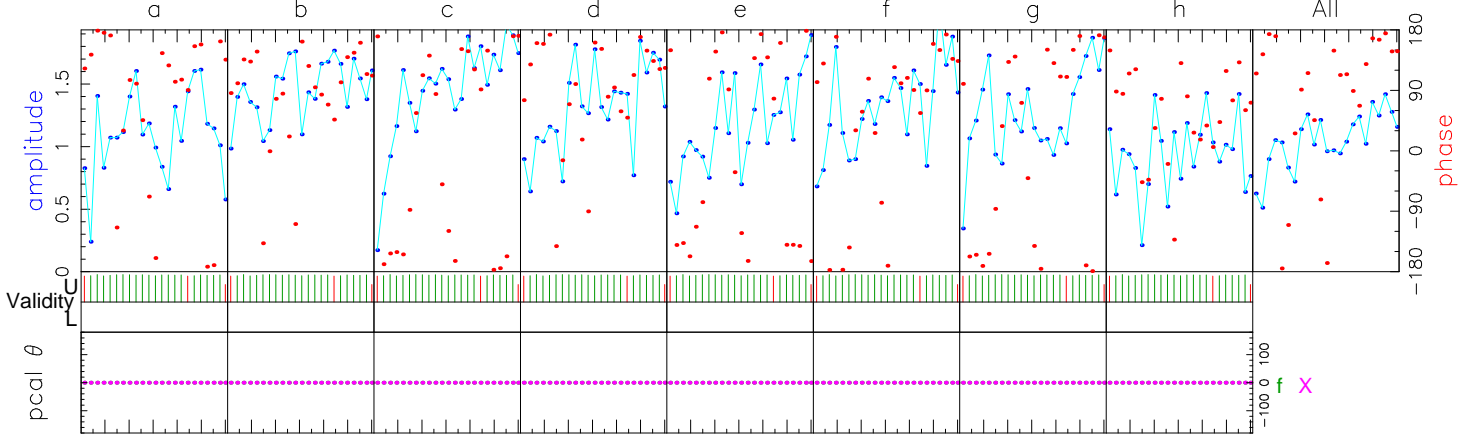
Fringe quality 4

SNR 33.0
 Int time 350.334
 Amp 0.644
 Phase 139.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.019951
 MBD -0.002307
 Fringe rate (Hz)
 0.004720
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



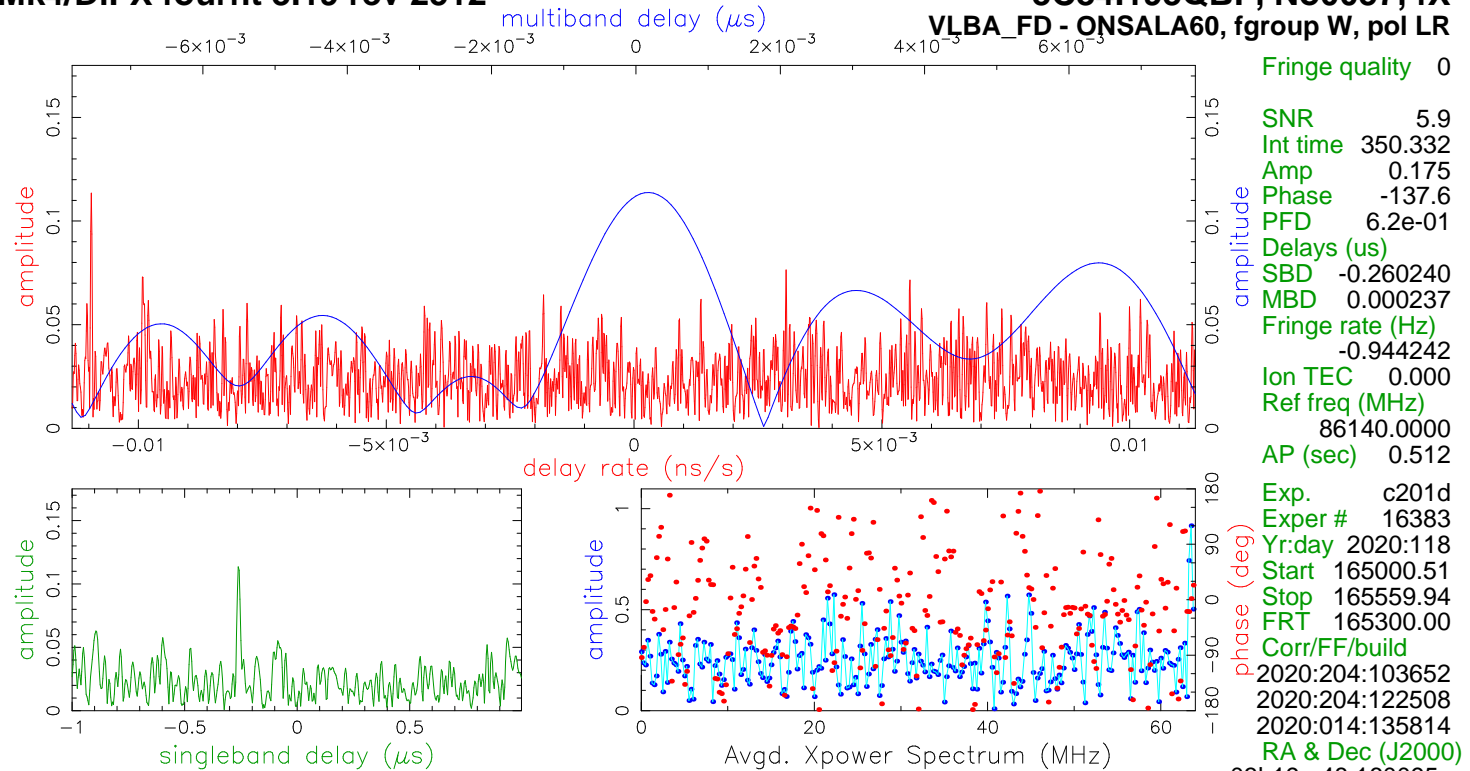
Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.51
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122503
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

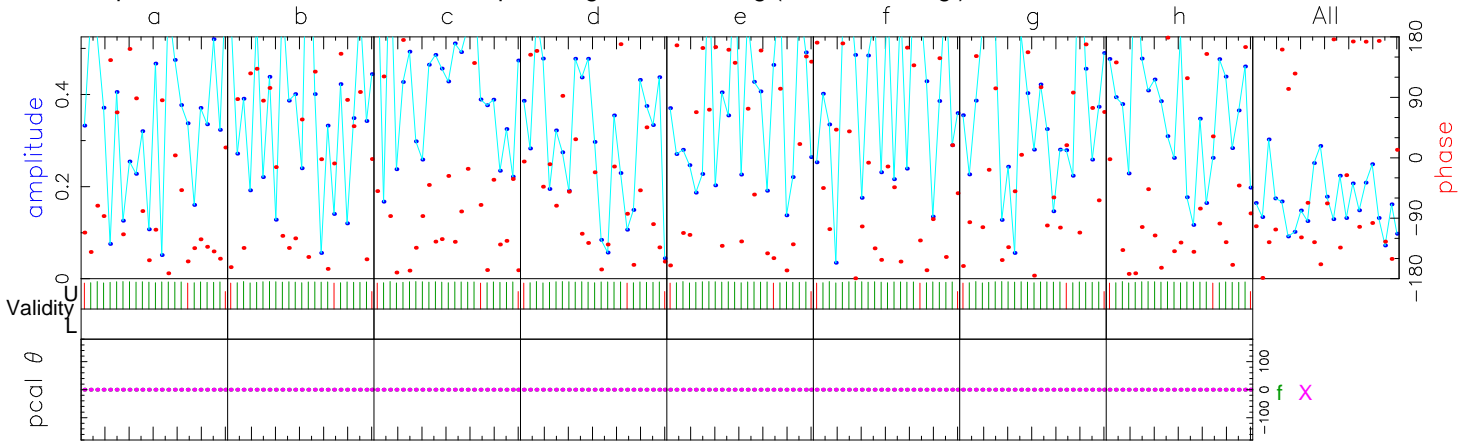


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	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)	2.20086328643E+03		Apriori delay (usec)		2.20084996838E+03		Resid mbdelay (usec)		-2.30695E-03	+/- 3.3E-05
Sband delay (usec)	2.20086991963E+03		Apriori clock (usec)		-3.6906921E+01		Resid sbdelay (usec)		1.99513E-02	+/- 2.6E-04
Phase delay (usec)	2.20084997288E+03		Apriori clockrate (us/s)		-4.1900001E-07		Resid phdelay (usec)		4.49875E-06	+/- 1.1E-07
Delay rate (us/s)	1.29760844662E+00		Apriori rate (us/s)		1.29760839183E+00		Resid rate (us/s)		5.47928E-08	+/- 5.4E-10
Total phase (deg)	238.9		Apriori accel (us/s/s)		-3.68307323438E-05		Resid phase (deg)		139.5	+/- 3.5

	RMS	Theor.	Amplitude	0.644 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	59.1	8.3	Search (2048X32)	0.639	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	71.4	14.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	40.3	4.9	Inc. seg. avg.	1.036	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	25.2	8.6	Inc. frq. avg.	0.760	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
f: az 60.3 el 52.1 pa -91.3	X: az 281.6 el 44.0 pa 44.9		u,v (fr/asec) -9975.983 -4705.797		nlags: 256 t_cohere infinite	

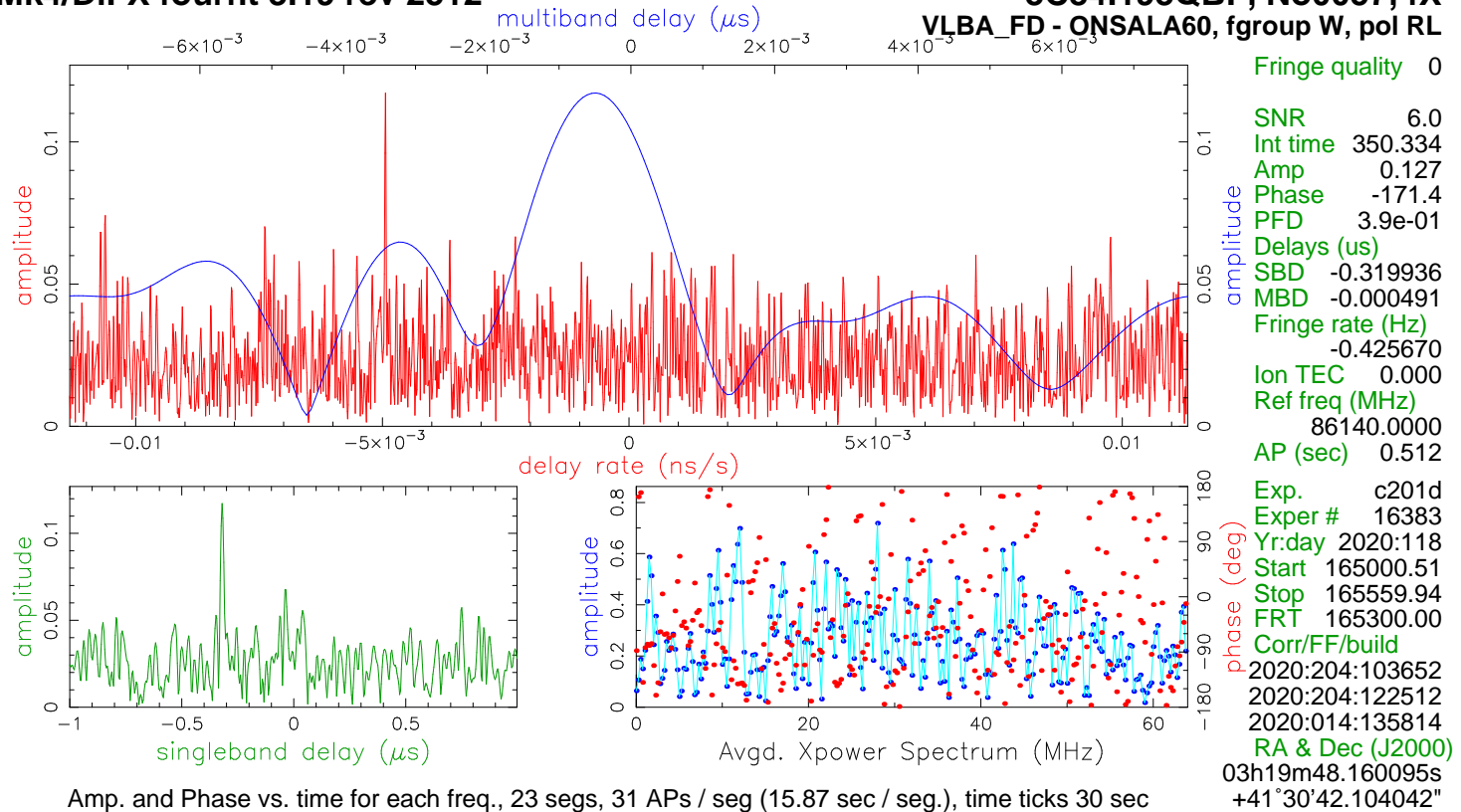


Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

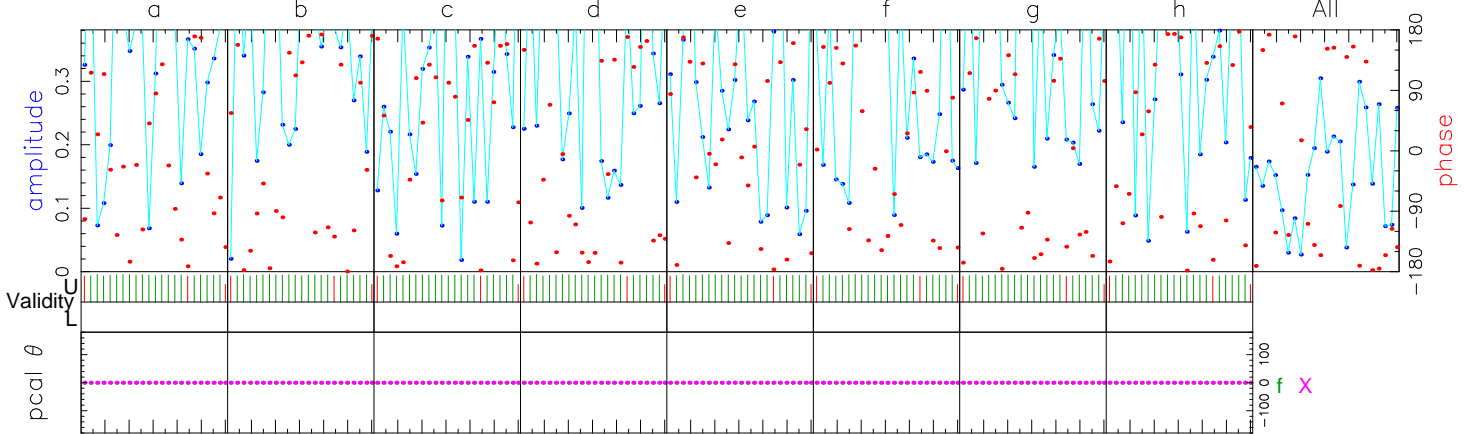


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-117.6	168.1	-104.1	-72.1	154.9	-142.7	-140.0	-133.0	Phase	-137.6
	0.2	0.2	0.3	0.1	0.2	0.1	0.2	0.3	Ampl.	0.2
	192.4	503.0	189.7	374.4	504.6	209.0	80.2	190.3	Sbd box	190.4
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.20058457997E+03		Apriori delay (usec)		2.20084996838E+03		Resid mbdelay (usec)		2.36590E-04	+/- 1.8E-04
Sband delay (usec)	2.20058972788E+03		Apriori clock (usec)		-3.6906921E+01		Resid sbdelay (usec)		-2.60240E-01	+/- 1.5E-03
Phase delay (usec)	2.20084996394E+03		Apriori clockrate (us/s)		-4.1900001E-07		Resid phdelay (usec)		-4.43724E-06	+/- 6.3E-07
Delay rate (us/s)	1.29759743012E+00		Apriori rate (us/s)		1.29760839183E+00		Resid rate (us/s)		-1.09617E-05	+/- 3.0E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.68307323438E-05		Resid phase (deg)		-137.6	+/- 19.4

	RMS	Theor.	Amplitude	0.175 +/- 0.030	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	60.3	46.6	Search (2048X32)	0.111	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	71.3	81.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	47.2	27.5	Inc. seg. avg.	0.195	Sample rate(MISamp/s): 128	mb window (us) -0.008 0.008
amp/frq (%)	51.1	48.0	Inc. frq. avg.	0.198	Data rate(Mb/s): 2048	dr window (ns/s) -0.011 0.011
					nlags: 256	t_cohere infinite
						ion window (TEC) 0.00 0.00

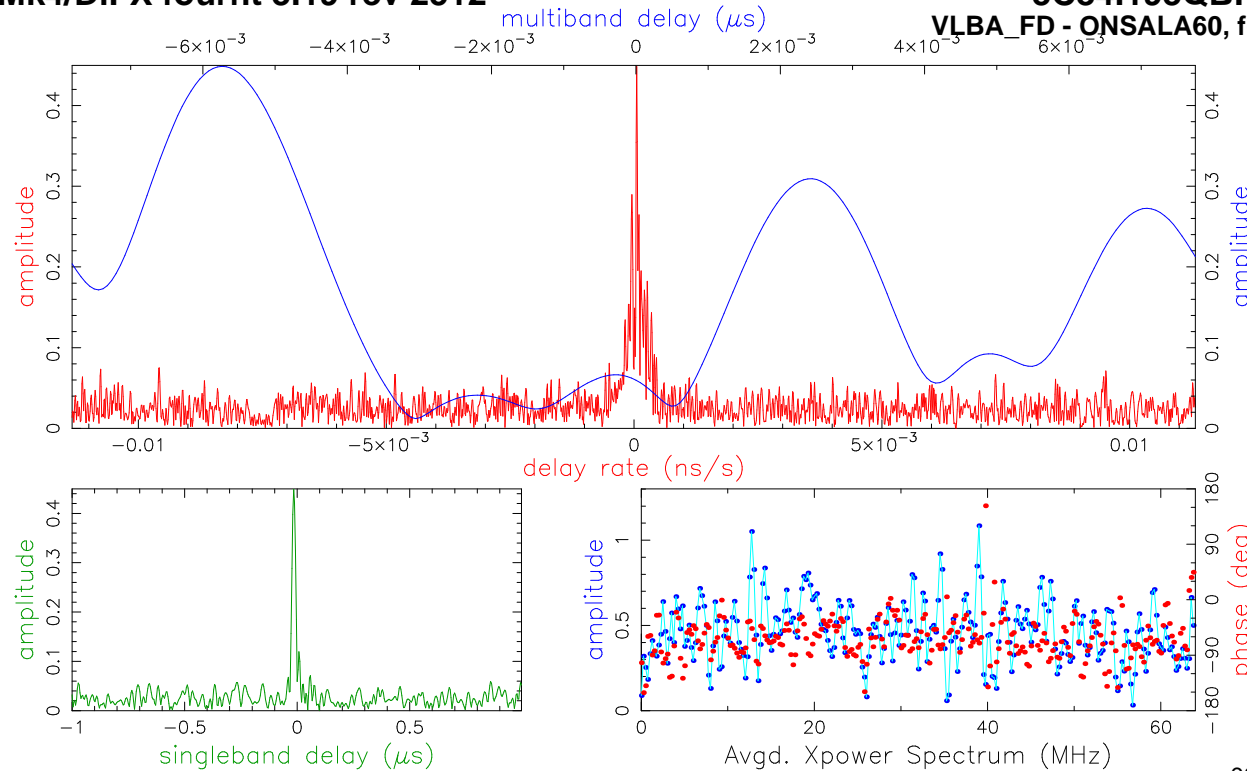


Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-122.6	-167.2	125.7	-159.0	130.4	178.3	-171.4	-155.3	Phase	-171.4
	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.2	Ampl.	0.1
	115.5	175.5	169.0	175.6	318.4	426.2	246.6	266.2	Sbd box	175.1
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.20053697775E+03		Apriori delay (usec)		2.20084996838E+03		Resid mbdelay (usec)		-4.90630E-04	+/- 1.8E-04
Sband delay (usec)	2.20053003213E+03		Apriori clock (usec)		-3.6906921E+01		Resid sbdelay (usec)		-3.19936E-01	+/- 1.4E-03
Phase delay (usec)	2.20084996285E+03		Apriori clockrate (us/s)		-4.1900001E-07		Resid phdelay (usec)		-5.52804E-06	+/- 6.2E-07
Delay rate (us/s)	1.29760345023E+00		Apriori rate (us/s)		1.29760839183E+00		Resid rate (us/s)		-4.94160E-06	+/- 3.0E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.68307323438E-05		Resid phase (deg)		-171.4	+/- 19.1

	RMS	Theor.	Amplitude	0.127 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	58.5	45.8	Search (2048X32)	0.113	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	77.3	79.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	41.4	27.0	Inc. seg. avg.	0.129	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	55.2	47.1	Inc. frq. avg.	0.132	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

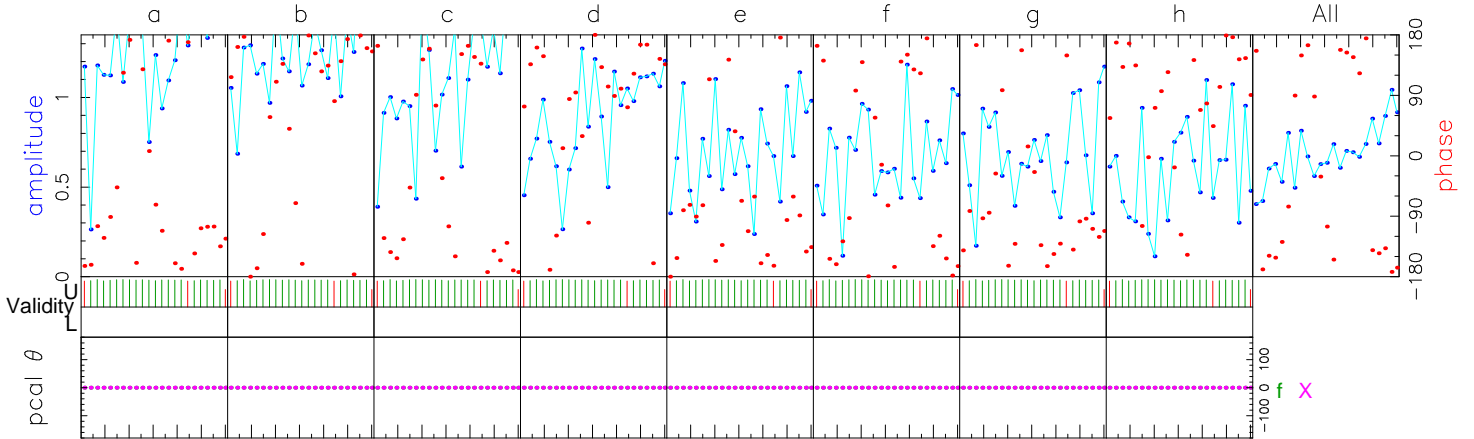


Fringe quality 7

SNR 23.0
Int time 350.332
Amp 0.450
Phase -170.8
PFD 0.0e+00
Delays (us)
SBD -0.014960
MBD -0.005714
Fringe rate (Hz) 0.004700
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

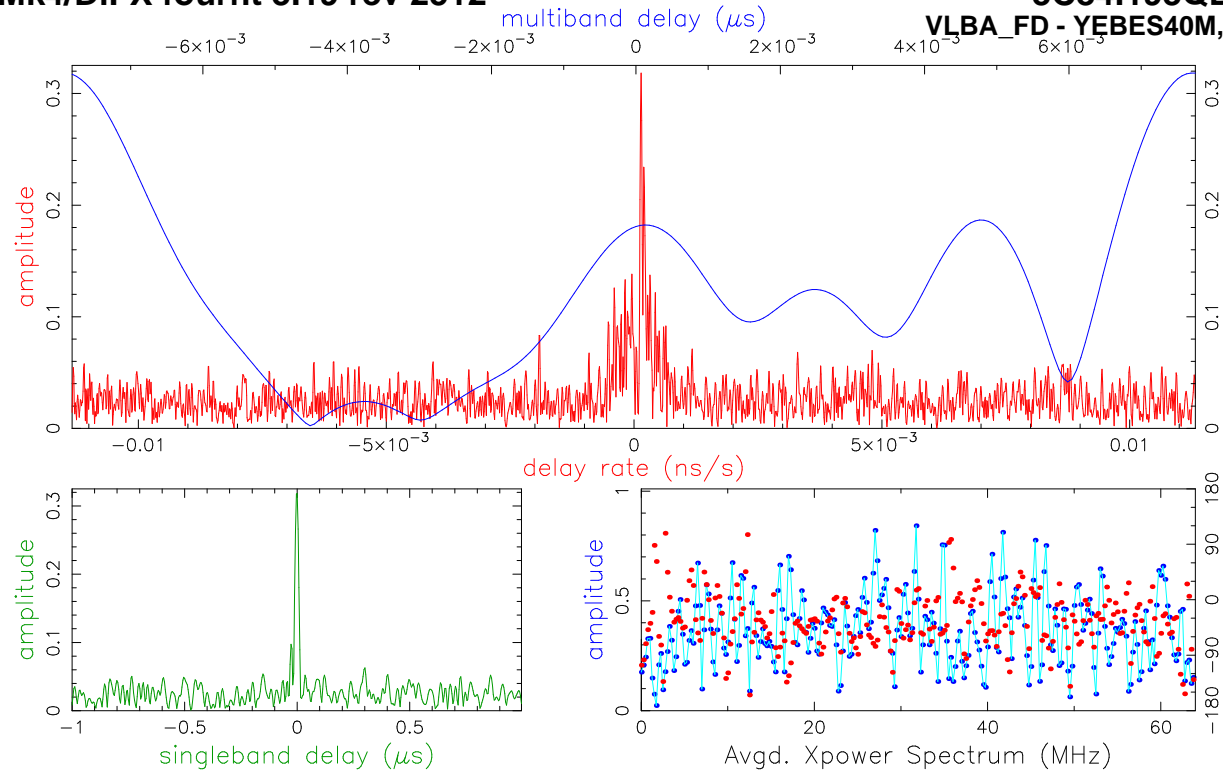
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122459
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	-137.9	156.2	-167.0	135.2	-122.9	-179.5	-118.4	138.9	Phase	-170.8
	0.8	0.9	0.7	0.5	0.4	0.4	0.4	0.3	Ampl.	0.6
	252.9	252.5	253.1	252.8	252.5	253.1	252.8	251.3	Sbd box	253.2
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.20082862927E+03		Apriori delay (usec)		2.20084996838E+03		Resid mbdelay (usec)		-5.71411E-03	+/- 4.7E-05
Sband delay (usec)	2.20083500863E+03		Apriori clock (usec)		-3.6906921E+01		Resid sbdelay (usec)		-1.49597E-02	+/- 3.7E-04
Phase delay (usec)	2.20084996287E+03		Apriori clockrate (us/s)		-4.1900001E-07		Resid phdelay (usec)		-5.50797E-06	+/- 1.6E-07
Delay rate (us/s)	1.29760844639E+00		Apriori rate (us/s)		1.29760839183E+00		Resid rate (us/s)		5.45632E-08	+/- 7.7E-10
Total phase (deg)			Apriori accel (us/s/s)		-3.68307323438E-05		Resid phase (deg)		-170.8	+/- 5.0

ph/seg (deg) 56.0 11.9 Theor. Amplitude 0.450 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 62.5 20.8 Search (2048X32) 0.445 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 46.1 7.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 52.2 12.3 Inc. seg. avg. 0.671 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 f: az 60.3 el 52.1 pa -91.3 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -9975.983 -4705.797 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fX..193QBF Output file: /Exps/c201d/v1/1234/No0057/fX.W.89.193QBF simultaneous interpolator

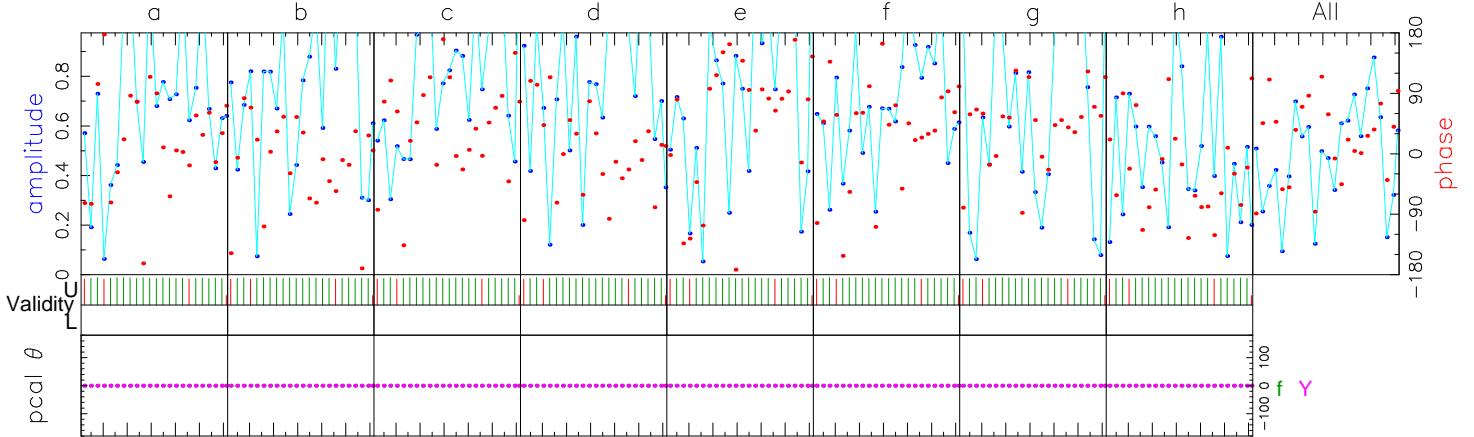


Fringe quality 8

SNR 16.5
 Int time 345.694
 Amp 0.325
 Phase 32.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.001908
 MBD -0.007927
 Fringe rate (Hz)
 0.012841
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165005.12
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122503
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



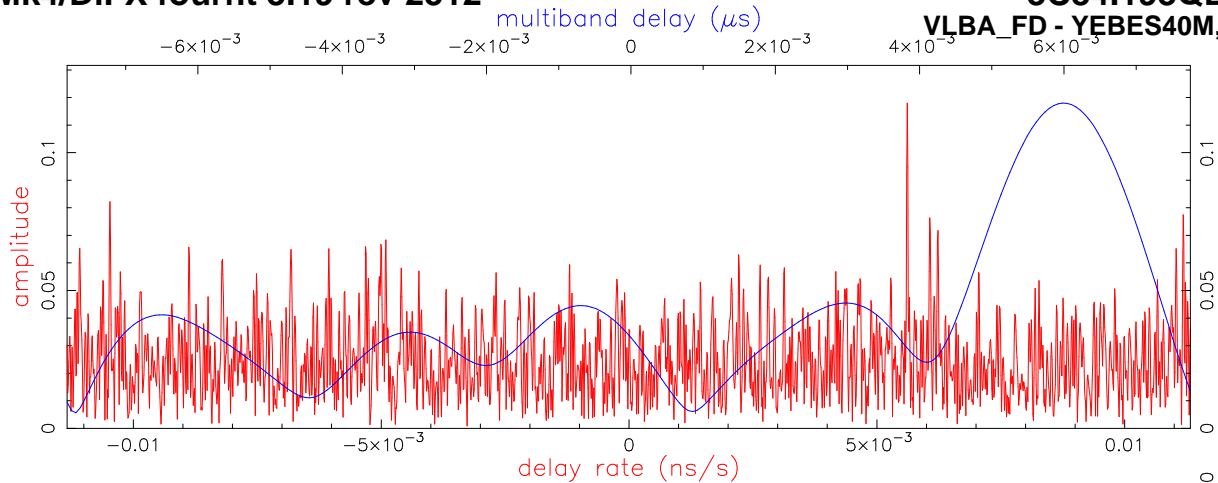
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	9.67675829564E+02	Apriori delay (usec)		9.67683756712E+02	Resid mbdelay (usec)		-7.92715E-03	+/-	6.6E-05	
Sband delay (usec)	9.67681848462E+02	Apriori clock (usec)		-8.0703249E+00	Resid sbdelay (usec)		-1.90825E-03	+/-	5.2E-04	
Phase delay (usec)	9.67683757745E+02	Apriori clockrate (us/s)		-1.1100000E-07	Resid phdelay (usec)		1.03256E-06	+/-	2.2E-07	
Delay rate (us/s)	1.43745384393E+00	Apriori rate (us/s)		1.43745369486E+00	Resid rate (us/s)		1.49070E-07	+/-	1.1E-09	
Total phase (deg)		321.2	Apriori accel (us/s/s)		-1.56786378409E-05	Resid phase (deg)		32.0	+/-	6.9

ph/seg (deg)	59.4	16.6	Search (2048X32)	0.307	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		
amp/seg (%)	79.4	29.0	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	9.8	Inc. seg. avg.	0.462	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	30.1	17.1	Inc. frq. avg.	0.408	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	
					nlags: 256 t_cohere infinite				

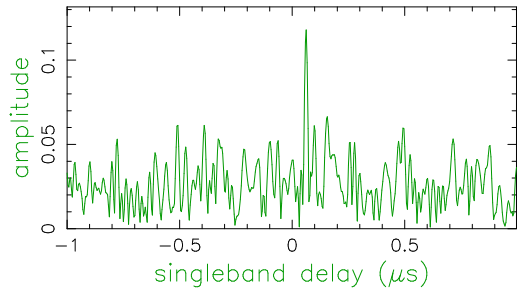
f: az 60.3 el 52.1 pa -91.3 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -11022.895 -1946.244 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fY..193QBF Output file: /Exps/c201d/v1/1234/No0057/fY.W.101.193QBF

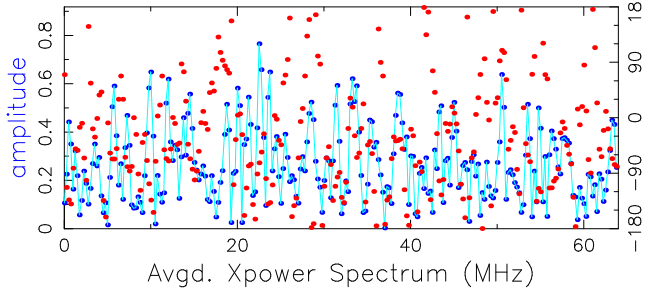


Fringe quality 0

SNR 6.0
 Int time 345.693
 Amp 0.132
 Phase -136.1
 PFD 3.4e-01
 Delays (us)
 SBD 0.061577
 MBD 0.005973
 Fringe rate (Hz)
 0.484316
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

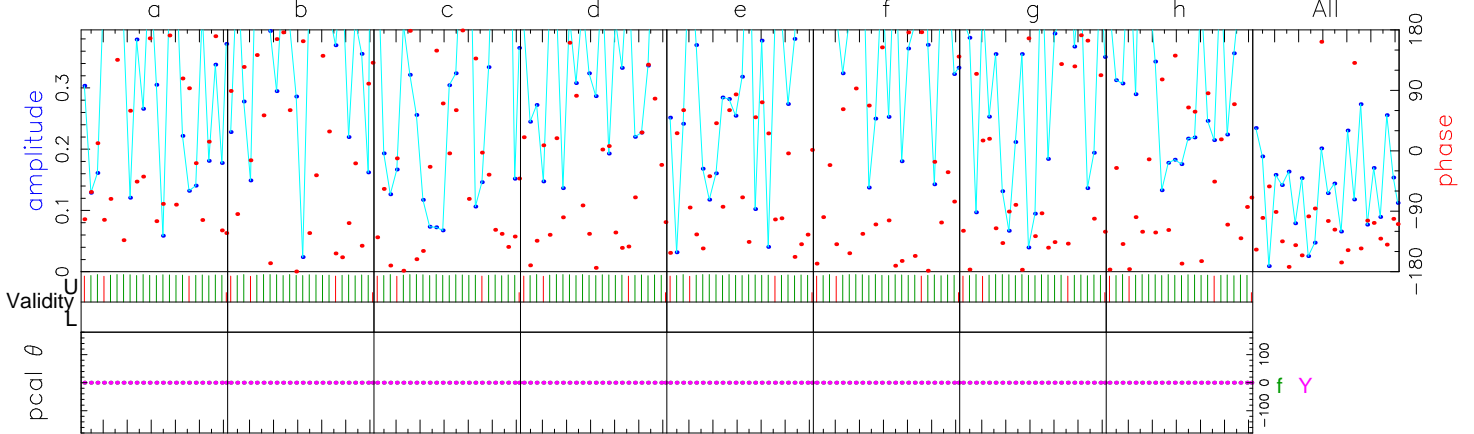


delay rate (ns/s)



Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165005.12
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122507
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



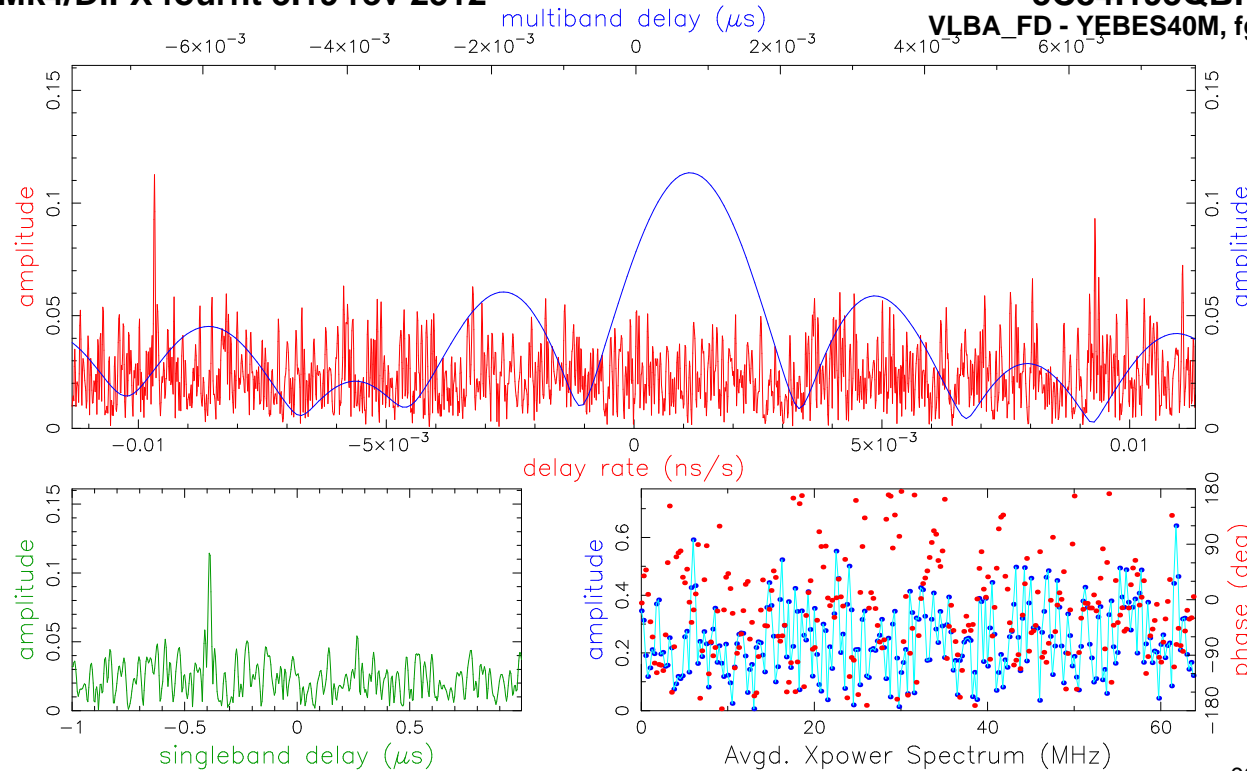
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-121.1	168.4	-125.2	-98.6	-108.4	-147.4	-155.8	-118.6	Phase	-136.1
	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1	Ampl.	0.1
	409.5	16.0	95.3	413.1	303.6	272.9	259.4	383.7	Sbd box	272.8
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	9.67752230172E+02	Apriori delay (usec)	9.67683756712E+02	Resid mbdelay (usec)	5.97346E-03	+/-	1.8E-04
Sband delay (usec)	9.67745333462E+02	Apriori clock (usec)	-8.0703249E+00	Resid sbdelay (usec)	6.15768E-02	+/-	1.4E-03
Phase delay (usec)	9.67683752323E+02	Apriori clockrate (us/s)	-1.1100000E-07	Resid phdelay (usec)	-4.38913E-06	+/-	6.1E-07
Delay rate (us/s)	1.43745931730E+00	Apriori rate (us/s)	1.43745369486E+00	Resid rate (us/s)	5.62243E-06	+/-	3.0E-09
Total phase (deg)	153.0	Apriori accel (us/s/s)	-1.56786378409E-05	Resid phase (deg)	-136.1	+/-	19.0

ph/seg (deg)	RMS 39.4	Theor. 45.5	Amplitude Search (2048X32)	0.132 +/- 0.022	0.116	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	62.3	79.4	Interp.	0.000	0.116	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	32.7	26.8	Inc. seg. avg.	0.118	0.118	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	36.4	46.9	Inc. frq. avg.	0.131	0.131	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 60.3 el 52.1 pa -91.3 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -11022.895 -1946.244 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fY..193QBF Output file: /Exps/c201d/v1/1234/No0057/fY.W.118.193QBF

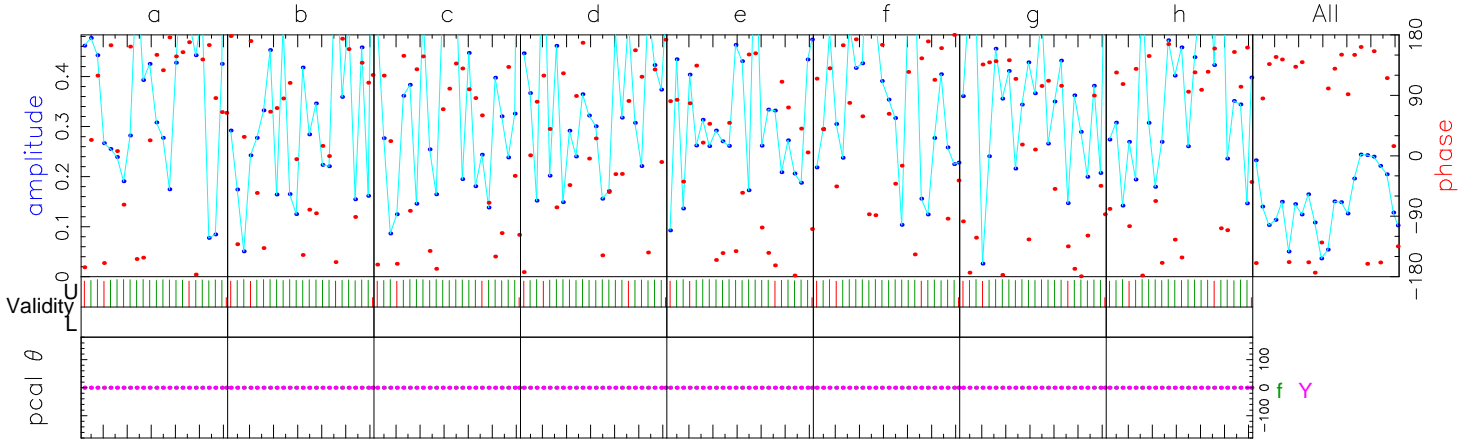


Fringe quality 0

SNR 5.9
 Int time 345.694
 Amp 0.161
 Phase 155.8
 PFD 5.1e-01
 Delays (us)
 SBD -0.388930
 MBD 0.000638
 Fringe rate (Hz)
 -0.834446
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165005.12
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122510
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

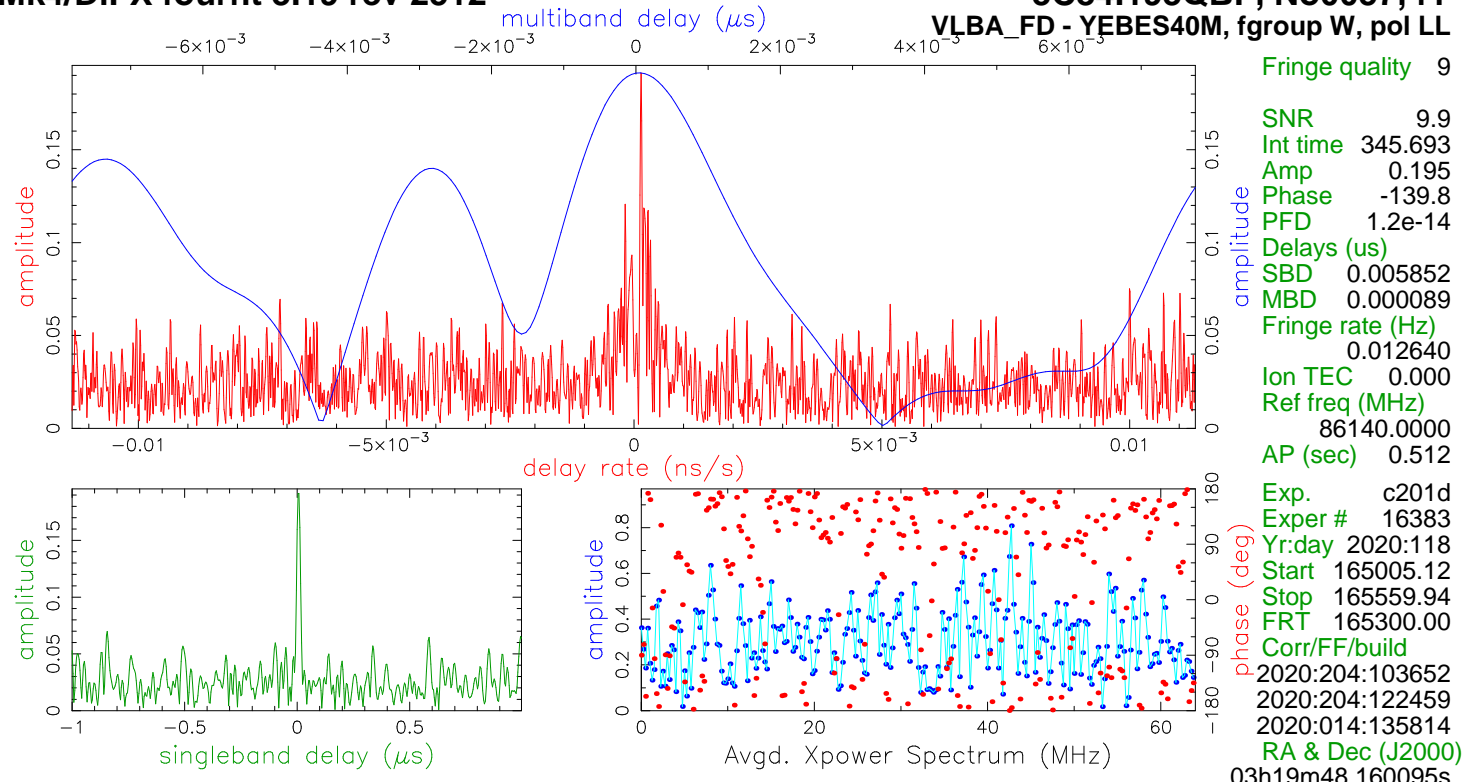


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	149.5	167.2	149.7	83.9	136.8	157.8	170.2	168.9	Phase	155.8
	0.3	0.1	0.2	0.1	0.1	0.1	0.2	0.3	Ampl.	0.1
	157.5	262.8	85.2	495.7	152.3	226.3	349.4	330.0	Sbd box	157.4
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	9.67293769794E+02		Apriori delay (usec)		9.67683756712E+02		Resid mbdelay (usec)		6.38082E-04	+/- 1.8E-04
Sband delay (usec)	9.67294826462E+02		Apriori clock (usec)		-8.0703249E+00		Resid sbdelay (usec)		-3.88930E-01	+/- 1.4E-03
Phase delay (usec)	9.67683761736E+02		Apriori clockrate (us/s)		-1.1100000E-07		Resid phdelay (usec)		5.02351E-06	+/- 6.2E-07
Delay rate (us/s)	1.43744400777E+00		Apriori rate (us/s)		1.43745369486E+00		Resid rate (us/s)		-9.68709E-06	+/- 3.0E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.56786378409E-05		Resid phase (deg)		155.8	+/- 19.3

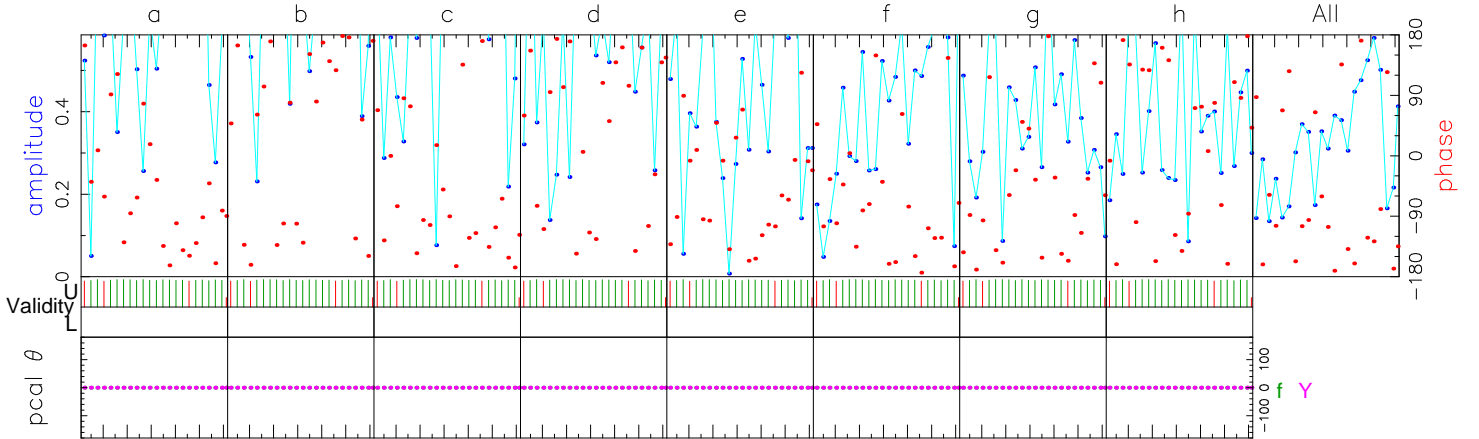
	RMS	Theor.	Amplitude	0.161 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	49.3	46.2	Search (2048X32)	0.113	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	59.1	80.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	31.9	27.3	Inc. seg. avg.	0.156	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	46.6	47.6	Inc. frq. avg.	0.146	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

f: az 60.3 el 52.1 pa -91.3 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -11022.895 -1946.244 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fY...193QBF Output file: /Exps/c201d/v1/1234/No0057/fY.W.136.193QBF



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



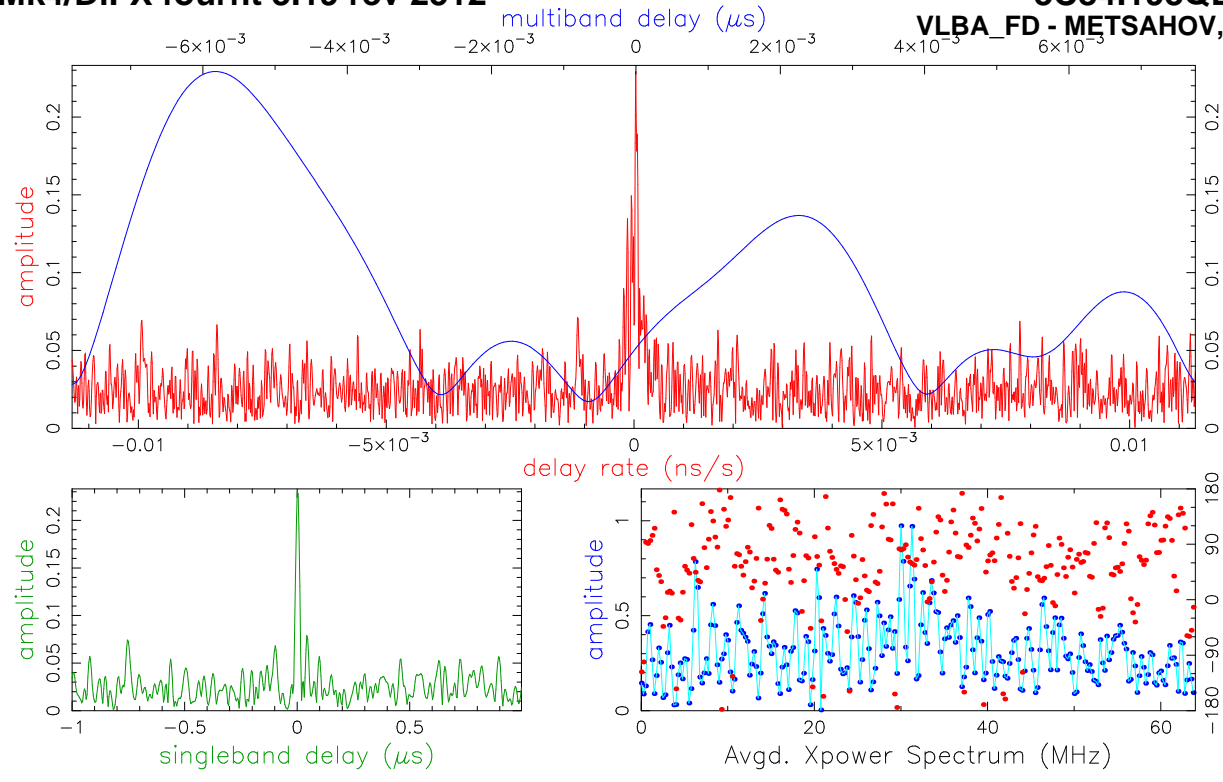
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-112.2	178.6	-117.9	164.8	-67.1	-116.4	-121.1	157.6	Phase	-139.8
	0.4	0.4	0.3	0.2	0.2	0.2	0.1	0.2	Ampl.	0.2
	258.4	258.3	258.4	258.3	258.7	256.8	184.2	255.2	Sbd box	258.5
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	9.67683846001E+02	Apriori delay (usec)	9.67683756712E+02	Resid mbdelay (usec)	8.92891E-05	+/-	1.1E-04
Sband delay (usec)	9.67689609212E+02	Apriori clock (usec)	-8.0703249E+00	Resid sbdelay (usec)	5.85250E-03	+/-	8.7E-04
Phase delay (usec)	9.67683752205E+02	Apriori clockrate (us/s)	-1.1100000E-07	Resid phdelay (usec)	-4.50717E-06	+/-	3.7E-07
Delay rate (us/s)	1.43745384160E+00	Apriori rate (us/s)	1.43745369486E+00	Resid rate (us/s)	1.46737E-07	+/-	1.8E-09
Total phase (deg)	149.4	Apriori accel (us/s/s)	-1.56786378409E-05	Resid phase (deg)	-139.8	+/-	11.5

ph/seg (deg)	RMS 72.9	Theor. 27.7	Amplitude Search (2048X32)	0.195 +/- 0.020	0.190	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	72.9	27.7	Interp.	0.000	0.190	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	91.5	48.3	Inc. seg. avg.	0.284	0.284	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	51.9	16.3	Inc. frq. avg.	0.249	0.249	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00
	60.5	28.5								

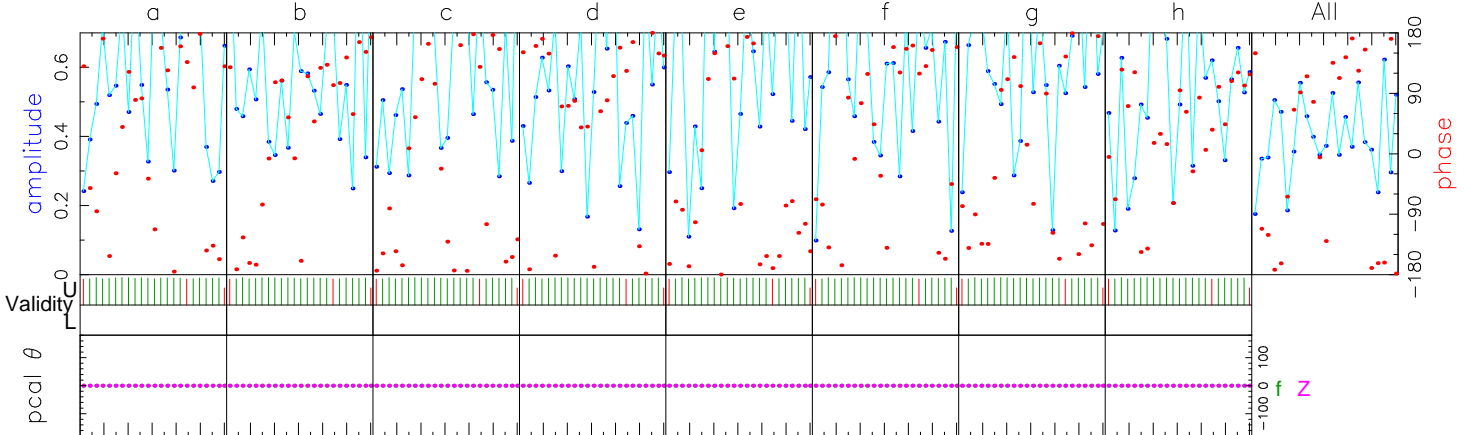
f: az 60.3 el 52.1 pa -91.3 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -11022.895 -1946.244 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fY..193QBF Output file: /Exps/c201d/v1/1234/No0057/fY.W.88.193QBF



Fringe quality 9
 SNR 11.9
 Int time 349.835
 Amp 0.233
 Phase 159.2
 PFD 4.5e-24
 Delays (us)
 SBD 0.001863
 MBD -0.005764
 Fringe rate (Hz) 0.002653
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.51
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build 2020:204:103652
 2020:204:122503
 2020:014:135814
 RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



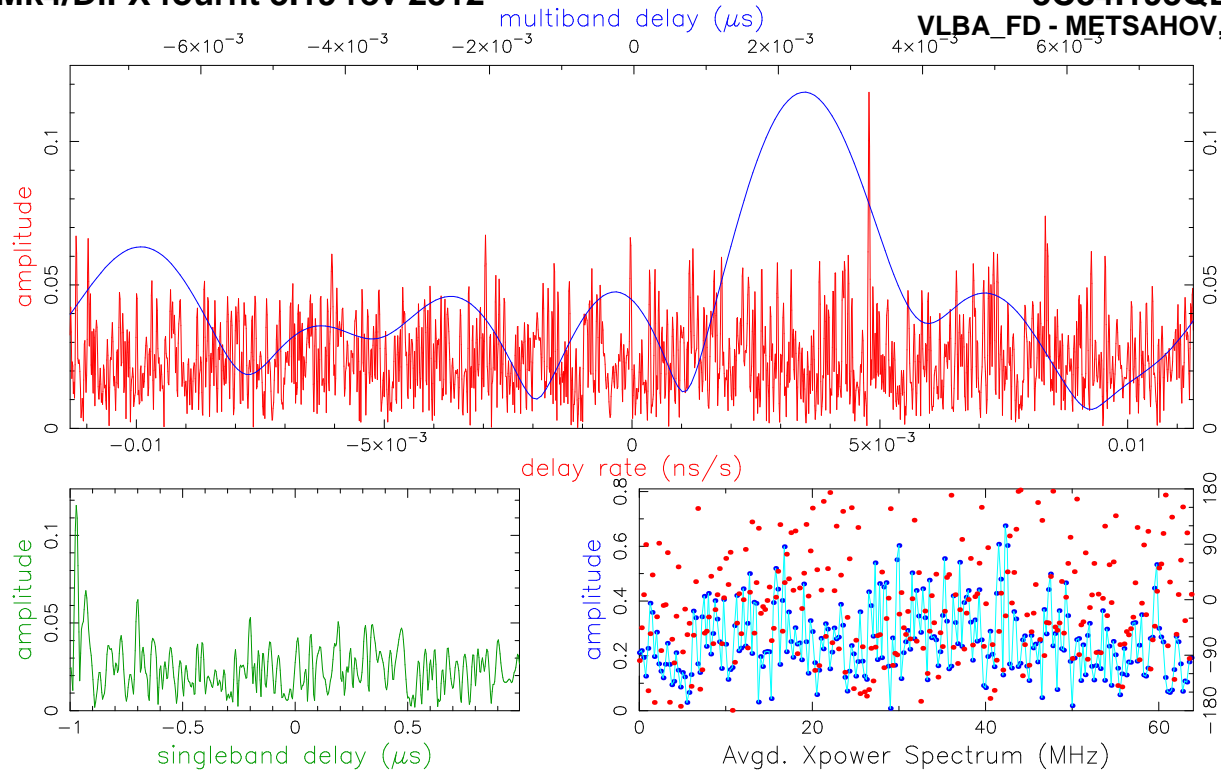
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	3.77796261011E+03	Apriori delay (usec)	3.77796837447E+03	Resid mbdelay (usec)	-5.76436E-03	+/-	9.1E-05
Sband delay (usec)	3.77797023797E+03	Apriori clock (usec)	4.0357318E+00	Resid sbdelay (usec)	1.86350E-03	+/-	7.2E-04
Phase delay (usec)	3.77796837960E+03	Apriori clockrate (us/s)	9.3000003E-08	Resid phdelay (usec)	5.13237E-06	+/-	3.1E-07
Delay rate (us/s)	1.27901035463E+00	Apriori rate (us/s)	1.27901032383E+00	Resid rate (us/s)	3.08003E-08	+/-	1.5E-09
Total phase (deg)		Apriori accel (us/s/s)	-4.69159377856E-05	Resid phase (deg)	159.2	+/-	9.6

ph/seg (deg)	66.1	RMS	23.0	Theor.	0.233 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	85.6	Search (2048X32)	0.228	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	50.2	Inc. seg. avg.	0.367	Inc. frq. avg.	0.295	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	35.7	Inc. frq. avg.	0.295			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

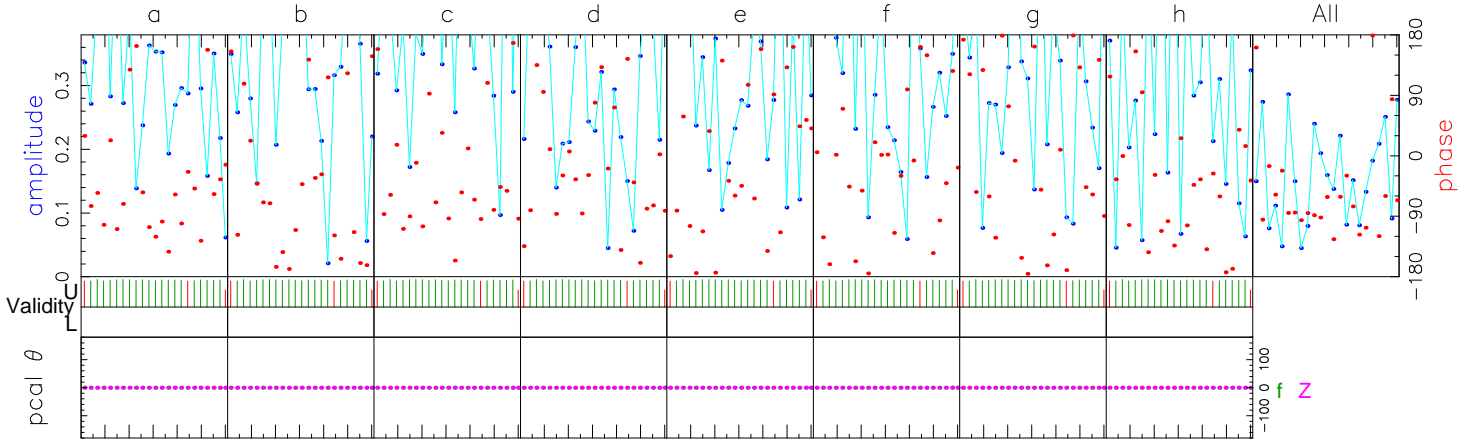
f: az 60.3 el 52.1 pa -91.3 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9845.755 -5579.218 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/fZ.W.103.193QBF



Fringe quality 0
 SNR 6.0
 Int time 349.833
 Amp 0.127
 Phase -87.4
 PFD 3.8e-01
 Delays (us)
 SBD -0.971987
 MBD 0.002398
 Fringe rate (Hz)
 0.412343
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.51
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122508
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

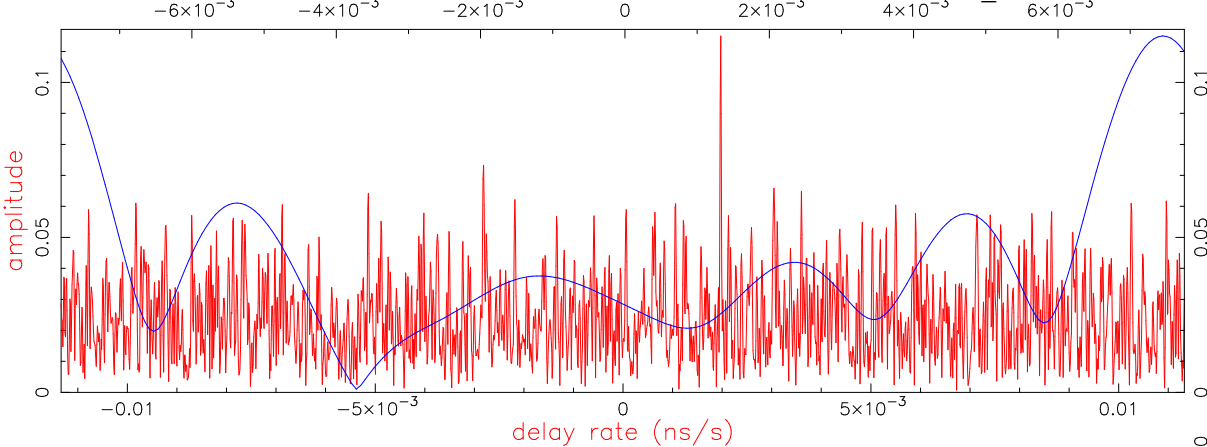


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-81.3	-127.5	-68.8	-63.8	-129.1	-38.0	-107.2	-105.4	Phase	-87.4
	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
	7.7	44.0	7.6	221.8	119.5	78.3	432.7	99.3	Sbd box	8.2
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	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)	3.77700202276E+03		Apriori delay (usec)		3.77796837447E+03		Resid mbdelay (usec)		2.39829E-03	+/- 1.8E-04
Sband delay (usec)	3.77699368697E+03		Apriori clock (usec)		4.0357318E+00		Resid sbdelay (usec)		-9.71987E-01	+/- 1.4E-03
Phase delay (usec)	3.77796837165E+03		Apriori clockrate (us/s)		9.3000003E-08		Resid phdelay (usec)		-2.81827E-06	+/- 6.2E-07
Delay rate (us/s)	1.27901511072E+00		Apriori rate (us/s)		1.27901032383E+00		Resid rate (us/s)		4.78689E-06	+/- 3.0E-09
Total phase (deg)			Apriori accel (us/s/s)		-4.69159377856E-05		Resid phase (deg)		-87.4	+/- 19.1

	RMS	Theor.	Amplitude	0.127 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	56.0	45.7	Search (2048X32)	0.114	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	70.2	79.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	35.2	27.0	Inc. seg. avg.	0.127	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	47.5	47.1	Inc. frq. avg.	0.129	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

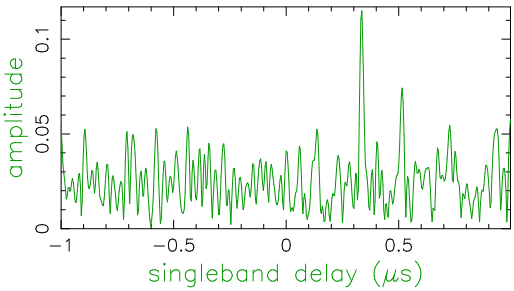
f: az 60.3 el 52.1 pa -91.3 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9845.755 -5579.218 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/fZ.W.124.193QBF

multiband delay (μ s)

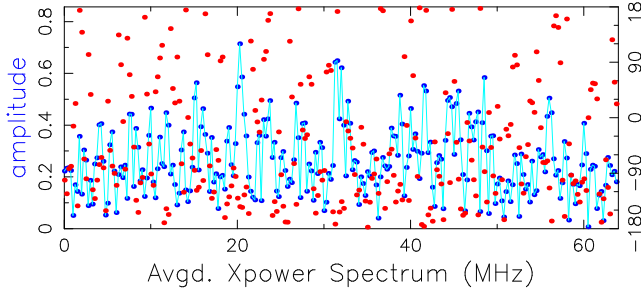


Fringe quality 0

SNR 5.9
 Int time 349.835
 Amp 0.117
 Phase 58.5
 PFD 5.7e-01
 Delays (us)
 SBD 0.334858
 MBD 0.007430
 Fringe rate (Hz)
 0.169791
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

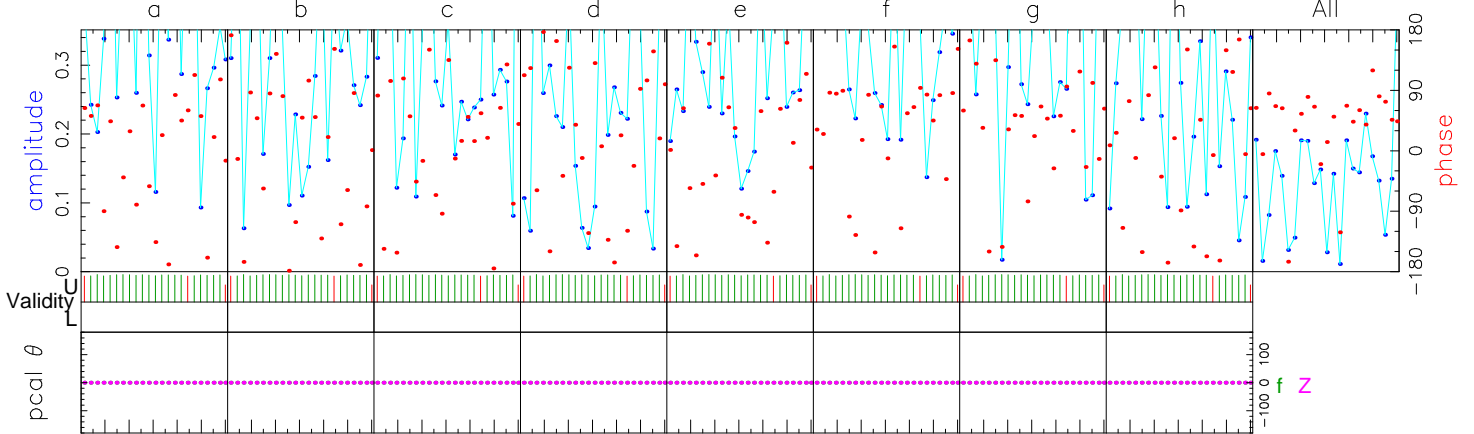


delay rate (ns/s)



Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.51
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122511
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

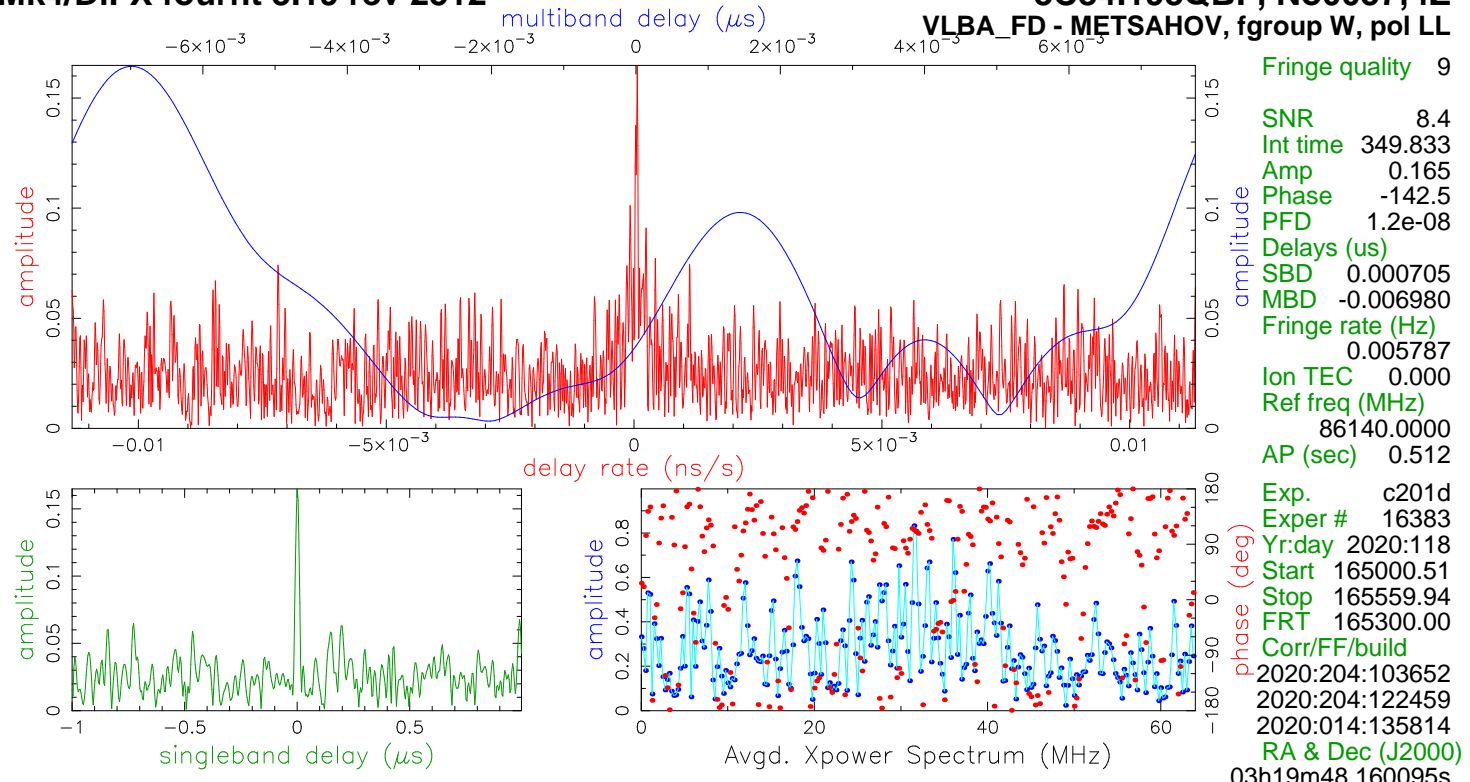


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

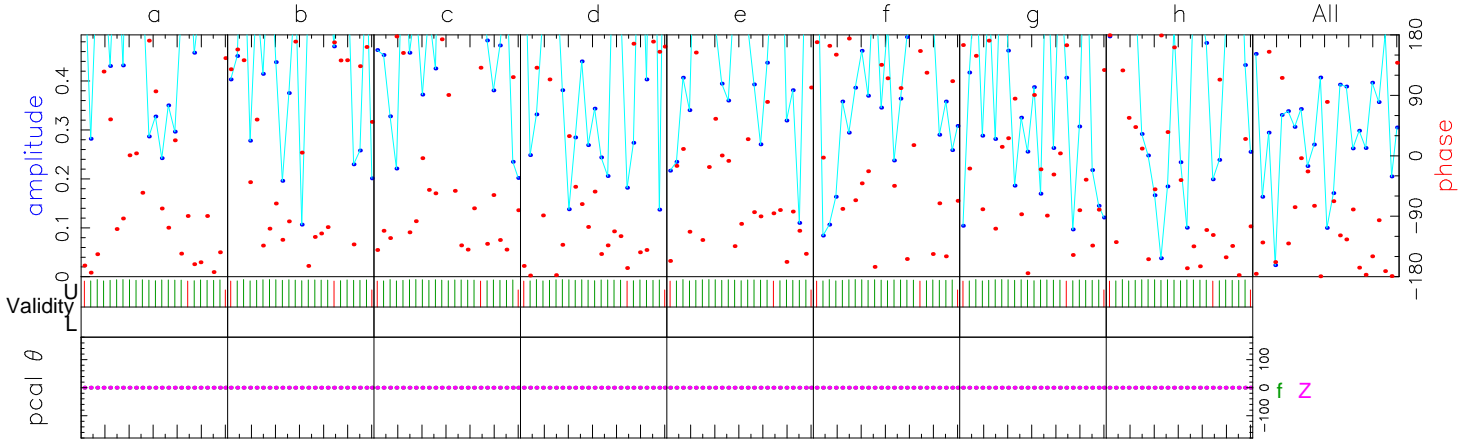
Group delay (usec)(sbd)	3.77830392952E+03	Apriori delay (usec)	3.77796837447E+03	Resid mbdelay (usec)	7.43005E-03	+/-	1.8E-04
Sband delay (usec)	3.77830323272E+03	Apriori clock (usec)	4.0357318E+00	Resid sbdelay (usec)	3.34858E-01	+/-	1.5E-03
Phase delay (usec)	3.77796837636E+03	Apriori clockrate (us/s)	9.3000003E-08	Resid phdelay (usec)	1.88673E-06	+/-	6.2E-07
Delay rate (us/s)	1.27901229493E+00	Apriori rate (us/s)	1.27901032383E+00	Resid rate (us/s)	1.97111E-06	+/-	3.0E-09
Total phase (deg)	338.2	Apriori accel (us/s/s)	-4.69159377856E-05	Resid phase (deg)	58.5	+/-	19.4

ph/seg (deg)	56.2	RMS	46.5	Theor.	56.2	Amplitude	0.117 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	69.2		81.1		69.2	Search (2048X32)	0.112	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	22.7		27.4		22.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	62.3		47.8		62.3	Inc. seg. avg.	0.100	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
						Inc. frq. avg.	0.108	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

f: az 60.3 el 52.1 pa -91.3 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9845.755 -5579.218 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/fZ.W.143.193QBF



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
Phase	-133.6	-168.3	-123.6	-153.8	-87.6	-179.7	-52.6	-168.0		-142.5
Ampl.	0.2	0.3	0.3	0.3	0.1	0.1	0.1	0.1		0.2
Sbd box	257.0	256.8	257.6	256.2	242.0	93.8	98.2	377.5		257.2
APs used	U/L 702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
PC freqs	f 1000	1000	1000	1000	1000	1000	1000	1000		
PC phase	Z 1000	1000	1000	1000	1000	1000	1000	1000		
Mani PC	f:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
PC amp	f:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Chan ids	f 1000	1000	1000	1000	1000	1000	1000	1000		
Tracks	Z 1000	1000	1000	1000	1000	1000	1000	1000		
Chan ids	f W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Tracks	Z W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	3.77796139497E+03	Apriori delay (usec)	3.77796837447E+03	Resid mbdelay (usec)	-6.97950E-03	+/-	1.3E-04
Sband delay (usec)	3.77796907947E+03	Apriori clock (usec)	4.0357318E+00	Resid sbdelay (usec)	7.05000E-04	+/-	1.0E-03
Phase delay (usec)	3.77796836988E+03	Apriori clockrate (us/s)	9.3000003E-08	Resid phdelay (usec)	-4.59509E-06	+/-	4.4E-07
Delay rate (us/s)	1.27901039100E+00	Apriori rate (us/s)	1.27901032383E+00	Resid rate (us/s)	6.71762E-08	+/-	2.1E-09
Total phase (deg)	137.2	Apriori accel (us/s/s)	-4.69159377856E-05	Resid phase (deg)	-142.5	+/-	13.6

ph/seg (deg)	66.3	Theor.	32.6	Amplitude	0.165 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	103.7	Search (2048X32)	0.163	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	48.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	49.3	Inc. seg. avg.	0.254	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011	0.011		
		Inc. frq. avg.	0.183	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 60.3 el 52.1 pa -91.3 Z: az 288.5 el 38.5 pa 39.1 u,v (fr/asec) -9845.755 -5579.218 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fZ..193QBF Output file: /Exps/c201d/v1/1234/No0057/fZ.W.90.193QBF