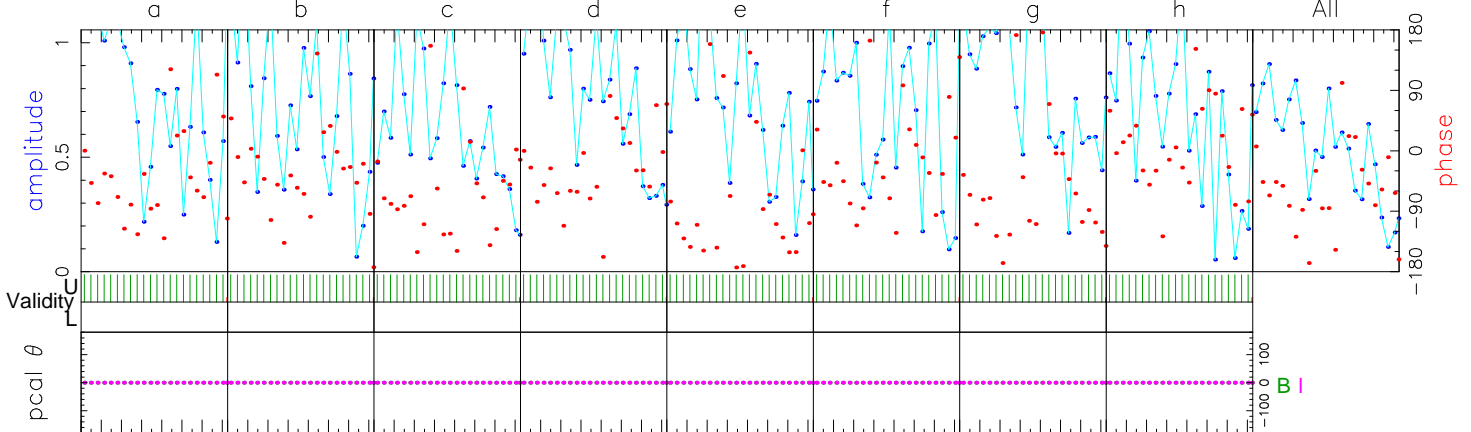
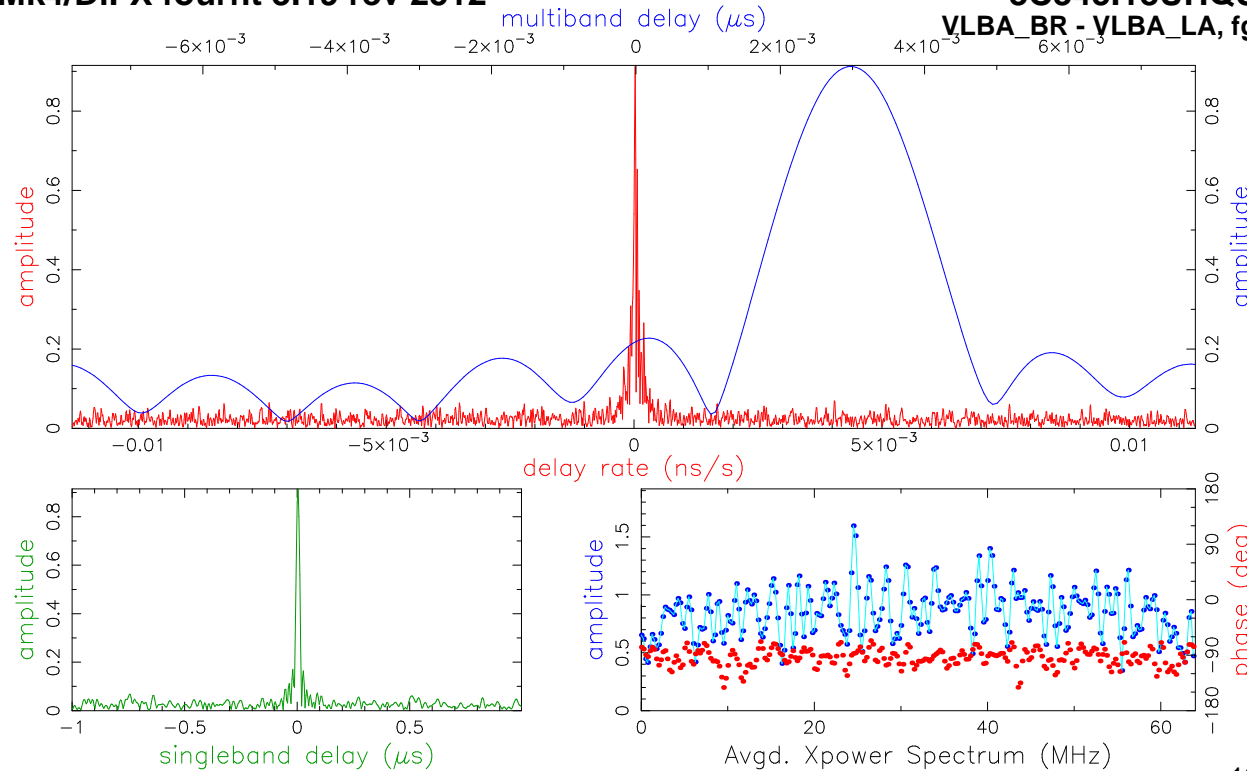


Fringe quality 8
 SNR 19.6
 Int time 415.990
 Amp 0.352
 Phase -62.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.002906
 MBD -0.006180
 Fringe rate (Hz) 0.007798
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084100.00
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143530
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.26211096453E+04				-1.26211190907E+04					
Sband delay (usec)	-1.26211161842E+04				1.6756166E+01					
Phase delay (usec)	-1.26211190927E+04				-4.8999999E-08					
Delay rate (us/s)	-9.31998794546E-01				-9.31998885072E-01					
Total phase (deg)			-233.6		8.07188808616E-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										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
Amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
0.352 +/- 0.018										
0.342										
0.000										
0.531										
0.460										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
-1.000 1.000										
-0.008 0.008										
-0.011 0.011										
0.00 0.00										

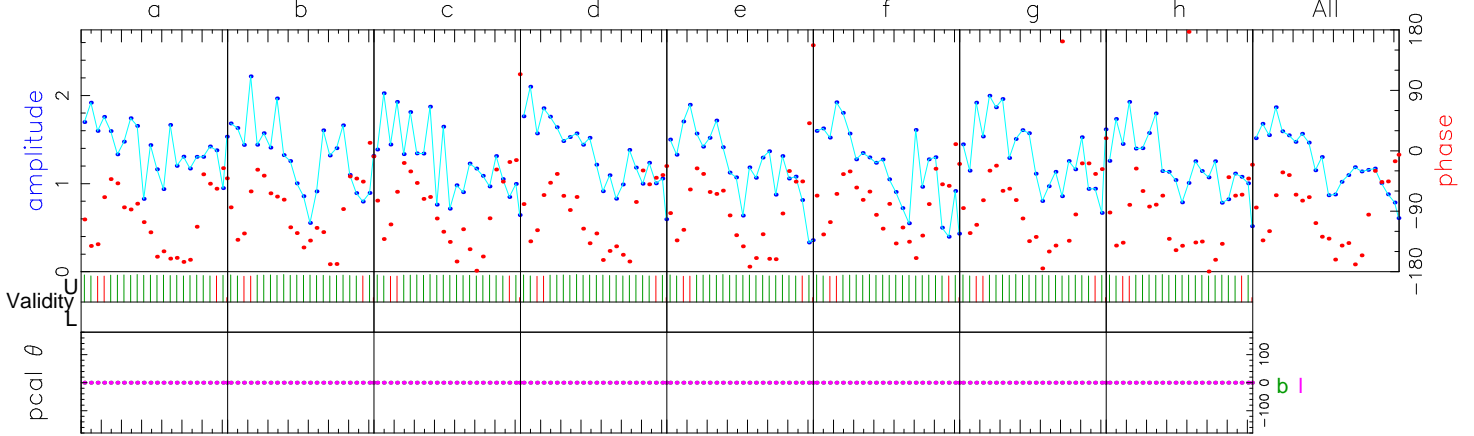


Fringe quality 5

SNR 50.4
Int time 405.867
Amp 0.915
Phase -90.2
PFD 0.0e+00
Delays (us)
SBD 0.003221
MBD 0.002959
Fringe rate (Hz) 0.001800
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143531
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-9.21062909390E+02				-9.21065868159E+02				2.95877E-03	+/- 2.2E-05
Sband delay (usec)	-9.21062646909E+02				2.2982023E+00				3.22125E-03	+/- 1.7E-04
Phase delay (usec)	-9.21065871067E+02				1.0899999E-07				-2.90761E-06	+/- 7.3E-08
Delay rate (us/s)	1.44108413851E-01				1.44108392956E-01				2.08947E-08	+/- 3.0E-10
Total phase (deg)			-48.1		1.64574432916E-05				-90.2	+/- 2.3
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										
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) 47.0 5.5
amp/seg (%) 50.2 9.5
ph/frq (deg) 9.3 3.2
amp/frq (%) 6.3 5.6

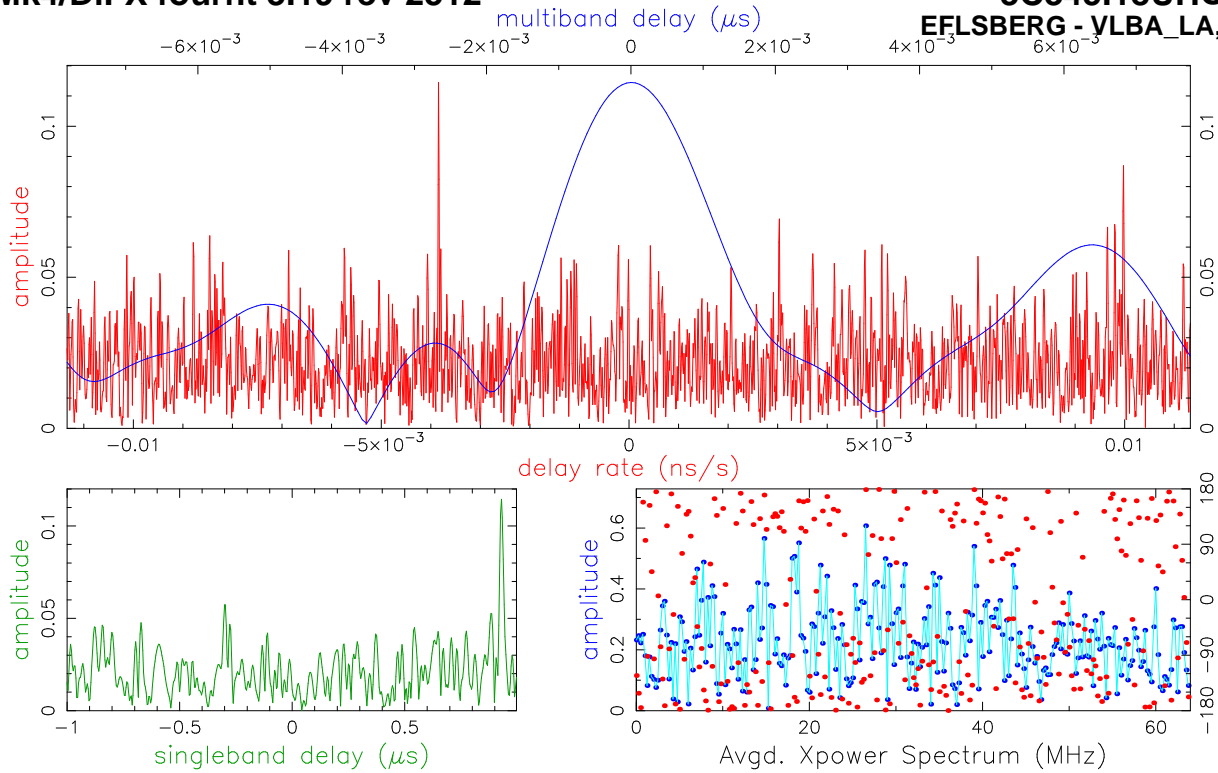
RMS Theor. Amplitude 0.915 +/- 0.018
Search (2048X32) 0.908
Interp. 0.000
Inc. seg. avg. 1.257
Inc. frq. avg. 0.920

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

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

b: az 104.8 el 69.8 pa -57.1 l: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) -1035.485 2181.089 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bl..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bl.W.27.18UHQS

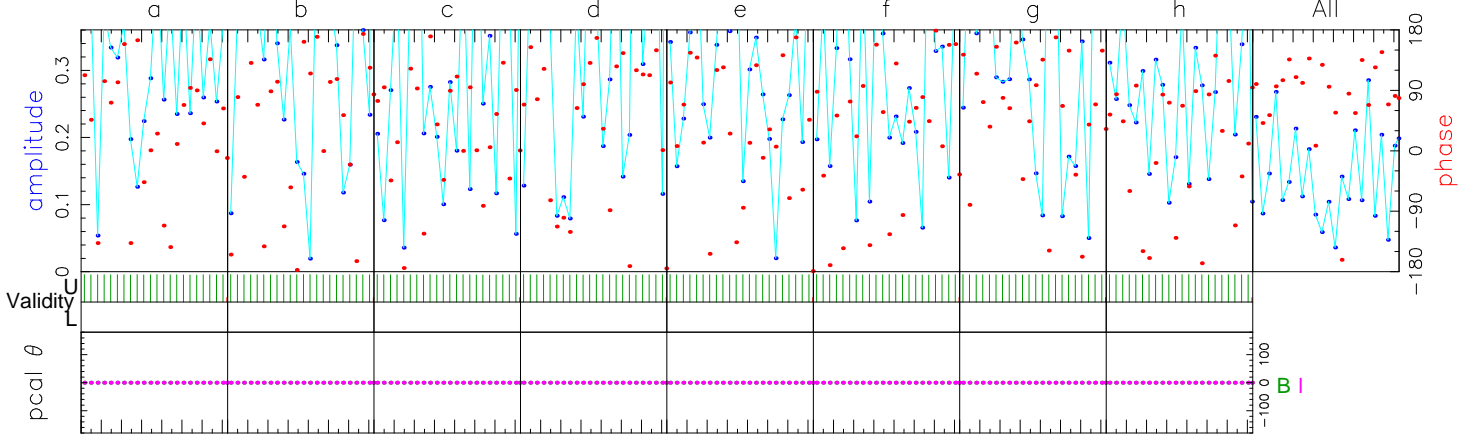


Fringe quality 0

SNR 6.4
Int time 415.990
Amp 0.120
Phase 98.0
PFD 4.5e-02
Delays (us)
SBD 0.929392
MBD -0.000005
Fringe rate (Hz)
-0.331788
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

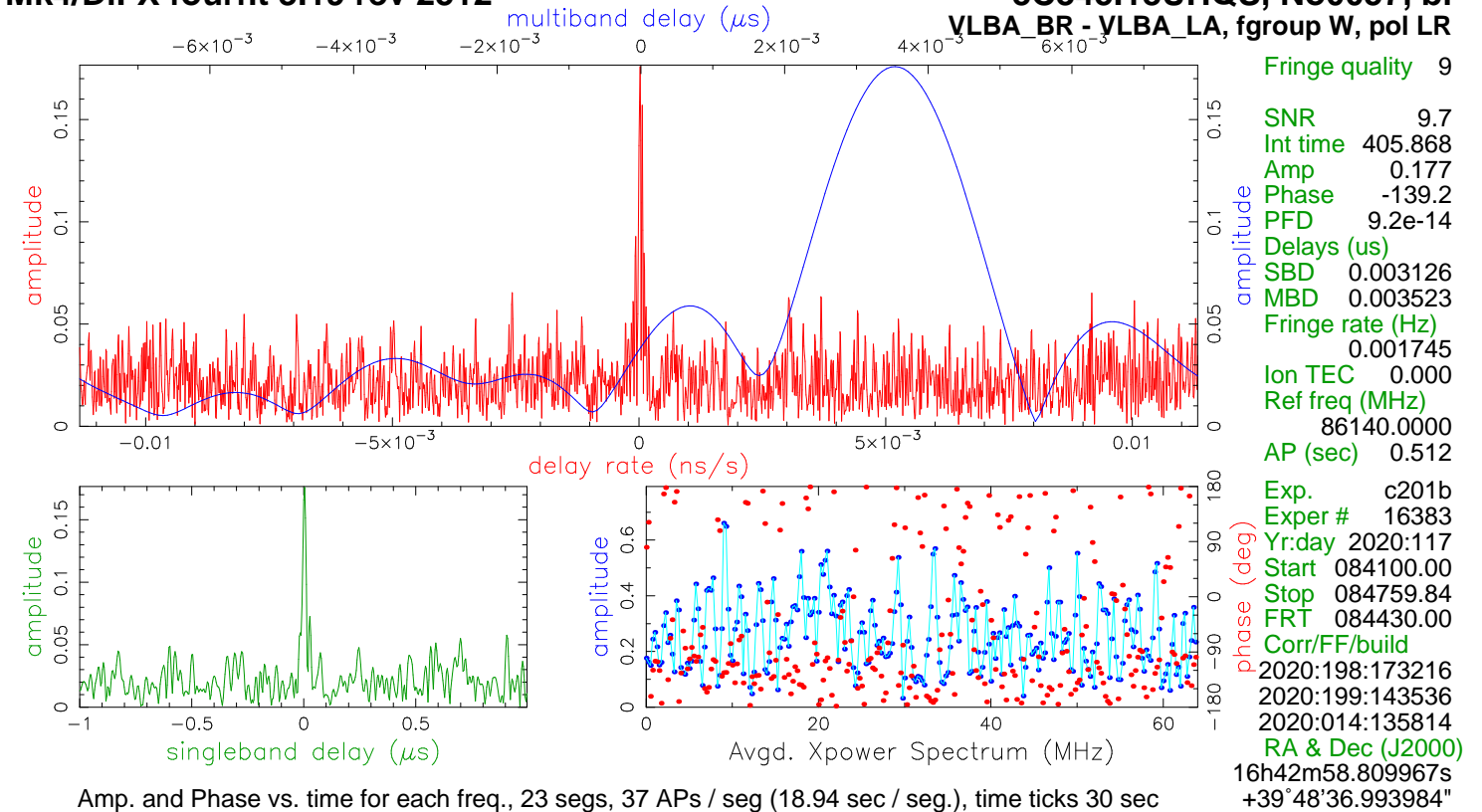
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143535
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

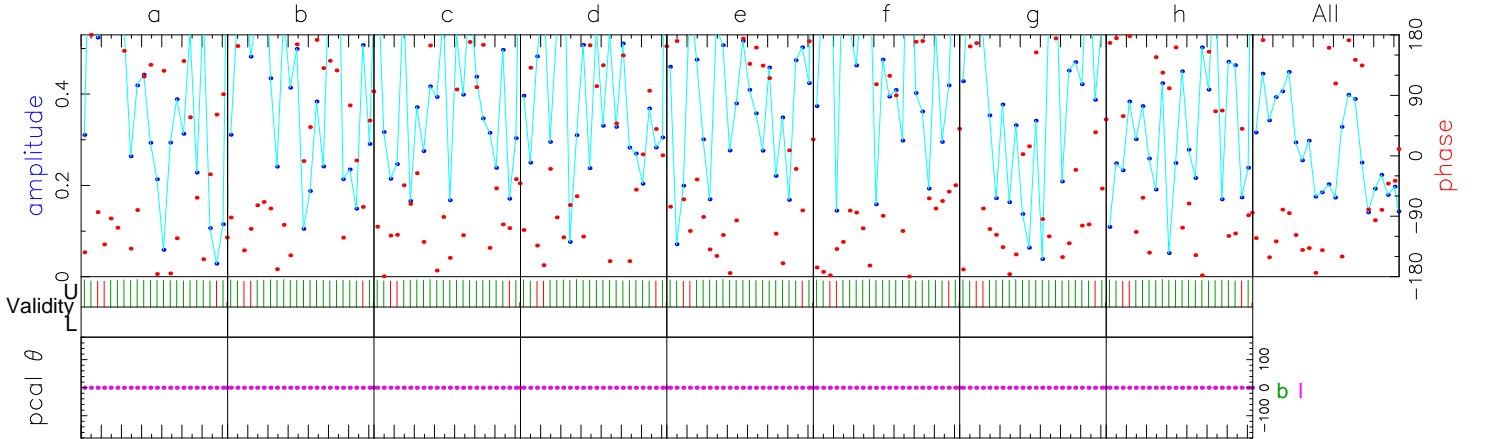


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.26201972210E+04									
Sband delay (usec)	-1.26201896990E+04									
Phase delay (usec)	-1.26211190876E+04									
Delay rate (us/s)	-9.32002736804E-01									
Total phase (deg)			-73.5							
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)									98.0	+/- 17.9
Pcal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5							
Pcal rate:	0.000E+00, 0.000E+00 (us/s)									
Bits/sample:	2x2		SampCntNorm: enabled							
Sample rate (MSamp/s):	128		dr window (ns/s)							
Data rate (Mb/s):	2048		nlags: 256		t_cohere infinite		ion window (TEC)		0.00 0.00	

ph/seg (deg) 41.2 43.0 Search (2048X32) 0.112 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 65.0 75.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 32.5 25.4 Inc. seg. avg. 0.117 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 41.0 44.3 Inc. frq. avg. 0.124 Sample rate (MSamp/s): 128 dr window (ns/s) -0.011 0.011
 B: az 304.4 el 23.7 pa 42.9 I: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) 7119.720 6446.985 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/BI..18UHQS Output file: /Exps/c201b/v1/1234/No0057/BI.W.41.18UHQS



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

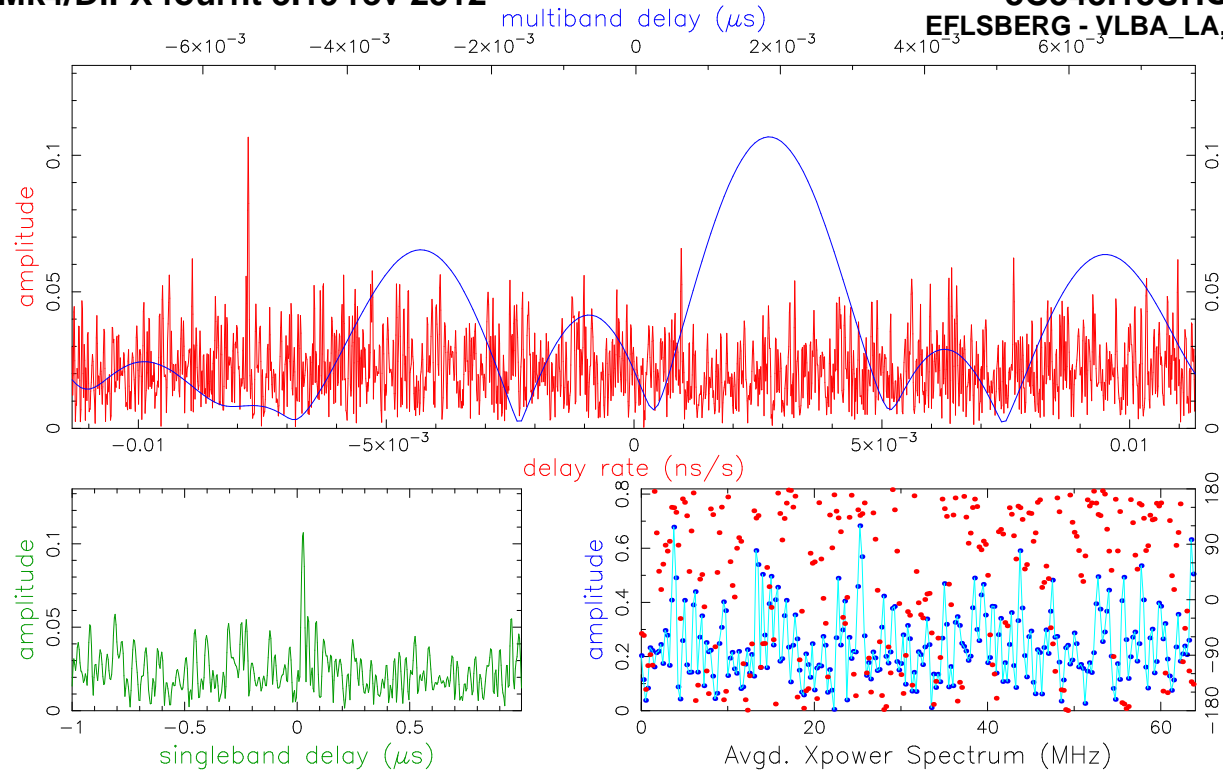


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-147.6	-144.9	-124.6	-147.8	-131.4	-133.9	-134.7	-159.6	Phase	-139.2
	0.2	0.2	0.2	0.1	0.2	0.3	0.2	0.1	Ampl.	0.2
	259.0	258.3	28.5	79.4	505.7	256.9	257.6	254.6	Sbd box	257.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-9.21062345046E+02		Apriori delay (usec)		-9.21065868159E+02		Resid mbdelay (usec)		3.52311E-03	+/- 1.1E-04
Sband delay (usec)	-9.21062741659E+02		Apriori clock (usec)		2.2982023E+00		Resid sbdelay (usec)		3.12650E-03	+/- 8.9E-04
Phase delay (usec)	-9.21065872647E+02		Apriori clockrate (us/s)		1.0899999E-07		Resid phdelay (usec)		-4.48811E-06	+/- 3.8E-07
Delay rate (us/s)	1.44108413209E-01		Apriori rate (us/s)		1.44108392956E-01		Resid rate (us/s)		2.02527E-08	+/- 1.6E-09
Total phase (deg)			Apriori accel (us/s/s)		1.64574432916E-05		Resid phase (deg)		-139.2	+/- 11.8

	RMS	Theor.	Amplitude	0.177 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	58.5	28.2	Search (2048X32)	0.175	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	81.0	49.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	12.4	16.7	Inc. seg. avg.	0.252	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	25.4	29.1	Inc. frq. avg.	0.171	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

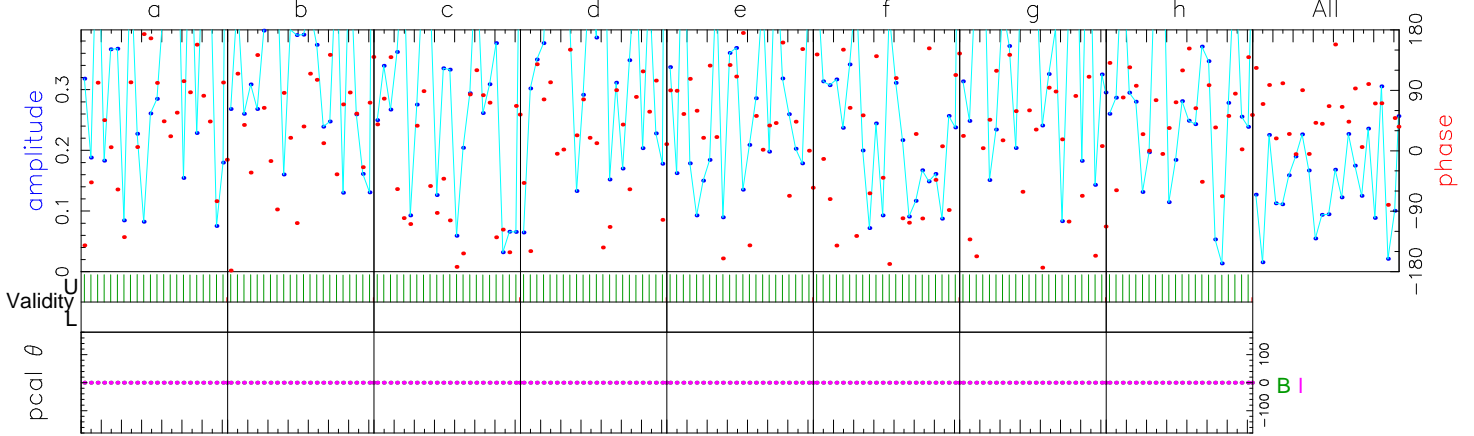
b: az 104.8 el 69.8 pa -57.1 l: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) -1035.485 2181.089 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bl..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bl.W.46.18UHQS



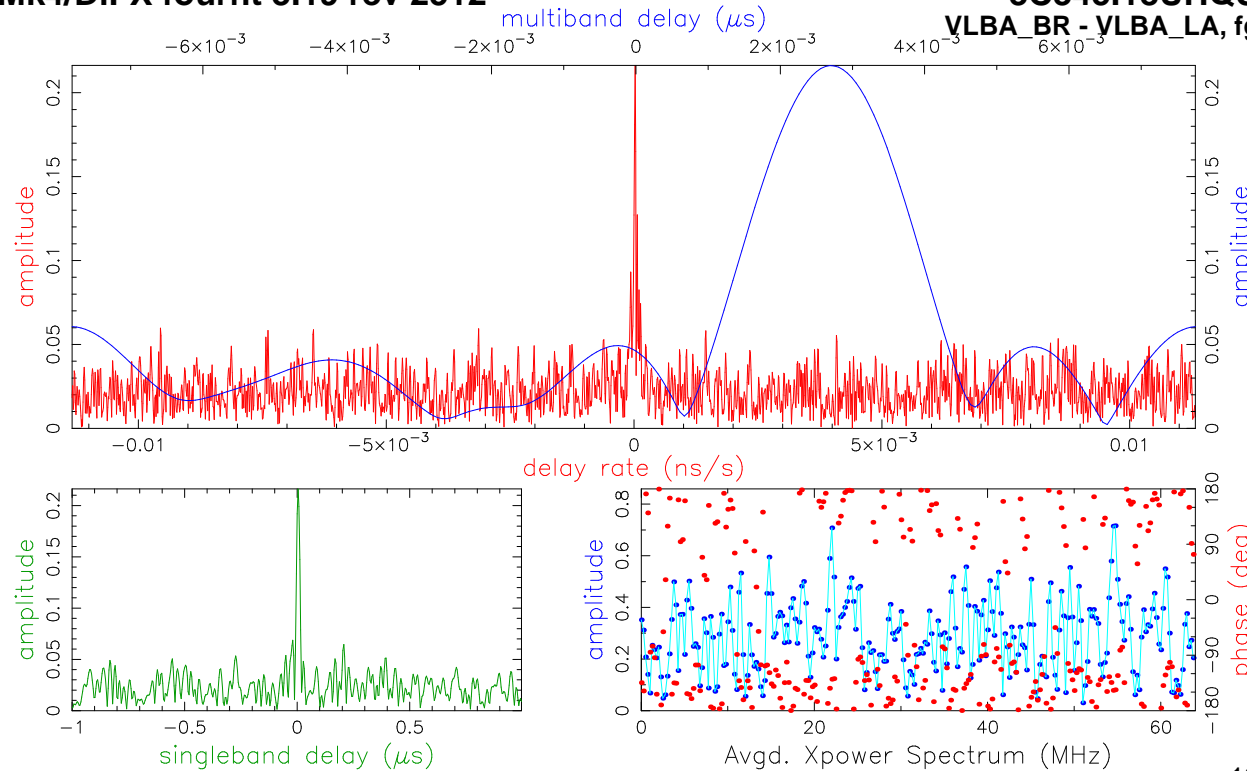
Fringe quality 0
SNR 6.1
Int time 415.990
Amp 0.133
Phase 64.6
PFD 3.1e-01
Delays (us)
SBD 0.025756
MBD 0.001798
Fringe rate (Hz)
-0.671735
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143539
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



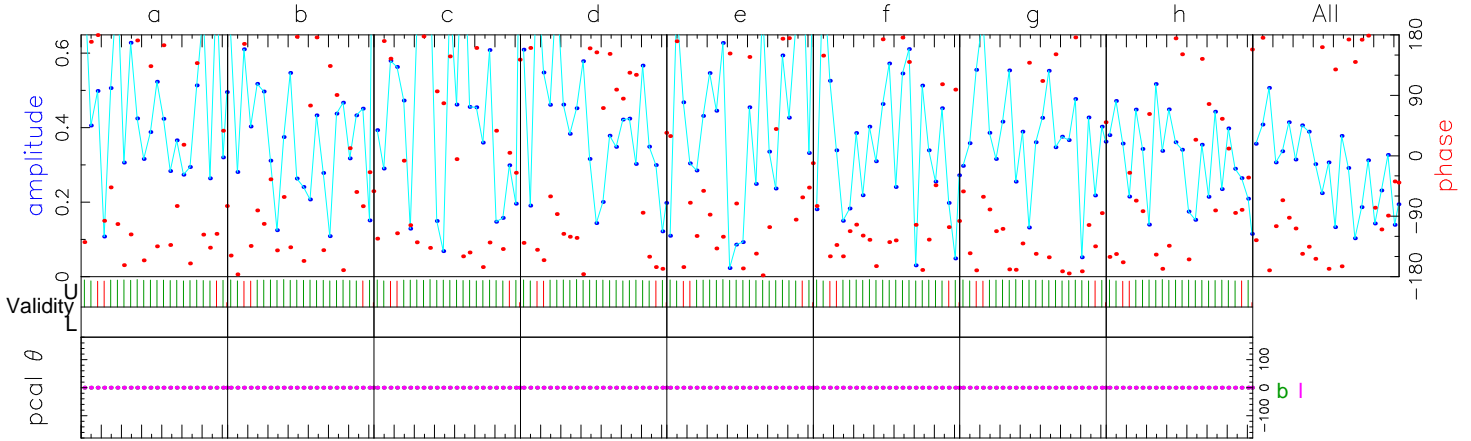
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.26210860427E+04									
Sband delay (usec)	-1.26210933350E+04									
Phase delay (usec)	-1.26211190887E+04									
Delay rate (us/s)	-9.32006683249E-01									
Total phase (deg)			-106.9							
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)									64.6	+/- 18.9
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

B: az 304.4 el 23.7 pa 42.9 I: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) 7119.720 6446.985 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/BI..18UHQS Output file: /Exps/c201b/v1/1234/No0057/BI.W.62.18UHQS



Fringe quality 9
SNR 11.9
Int time 405.867
Amp 0.216
Phase -142.0
PFD 4.9e-24
Delays (us)
SBD 0.004237
MBD 0.002716
Fringe rate (Hz) 0.001907
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143539
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

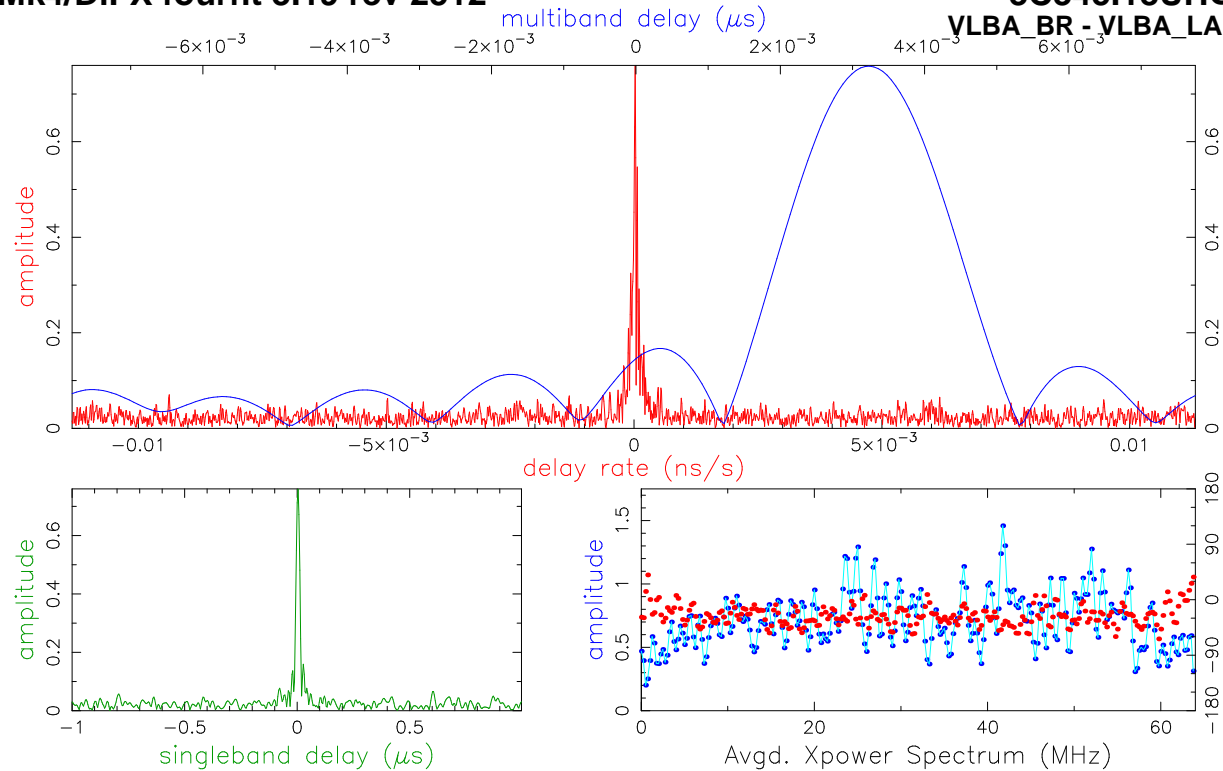


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-138.2	-128.3	-154.0	-150.8	-127.3	-158.0	-141.4	-128.7	Phase	-142.0
	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	Ampl.	0.2
	257.8	258.9	257.7	257.6	257.6	257.6	258.5	260.4	Sbd box	258.1
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	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	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-9.21063152296E+02		Apriori delay (usec)		-9.21065868159E+02		Resid mbdelay (usec)		2.71586E-03	+/- 9.1E-05
Sband delay (usec)	-9.21061630909E+02		Apriori clock (usec)		2.2982023E+00		Resid sbdelay (usec)		4.23725E-03	+/- 7.2E-04
Phase delay (usec)	-9.21065872738E+02		Apriori clockrate (us/s)		1.0899999E-07		Resid phdelay (usec)		-4.57886E-06	+/- 3.1E-07
Delay rate (us/s)	1.44108415099E-01		Apriori rate (us/s)		1.44108392956E-01		Resid rate (us/s)		2.21431E-08	+/- 1.3E-09
Total phase (deg)			Apriori accel (us/s/s)		1.64574432916E-05		Resid phase (deg)		-142.0	+/- 9.6

ph/seg (deg) 51.4 23.1 Amplitude 0.216 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 60.3 40.2 Interp. 0.211 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 13.4 13.6 Inc. seg. avg. 0.273 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 20.8 23.7 Inc. frq. avg. 0.214 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 104.8 el 69.8 pa -57.1 l: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) -1035.485 2181.089 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bl..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bl.W.64.18UHQS simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

3C345.18UHQS, No0057, bl
VLBA_BR - VLBA_LA, fgroup W, pol LL

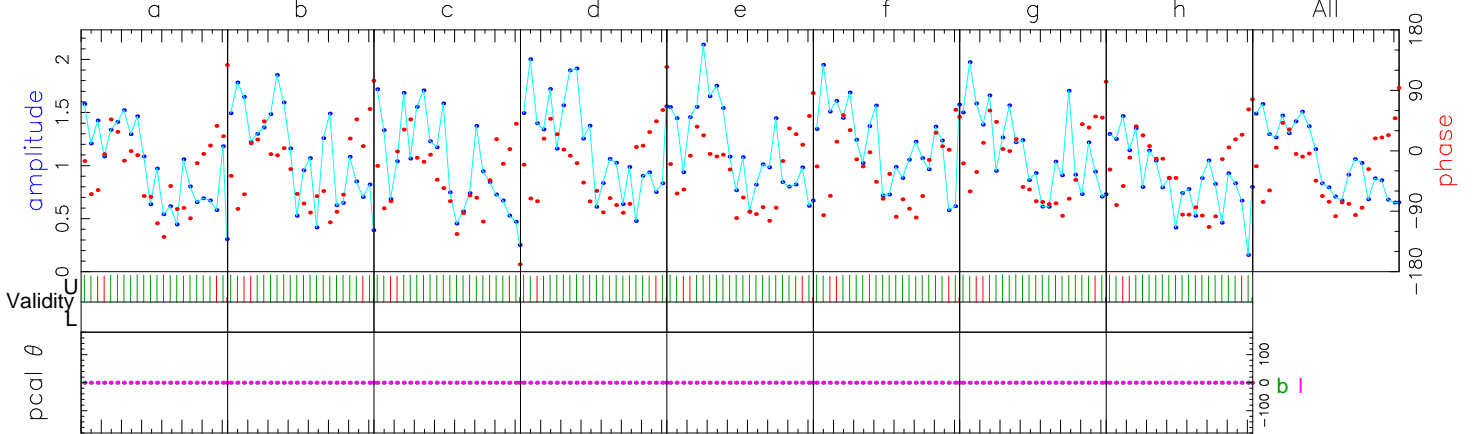


Fringe quality 7

SNR 41.9
Int time 405.868
Amp 0.760
Phase -26.2
PFD 0.0e+00
Delays (us)
SBD 0.003312
MBD 0.003213
Fringe rate (Hz) 0.001835
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143526
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

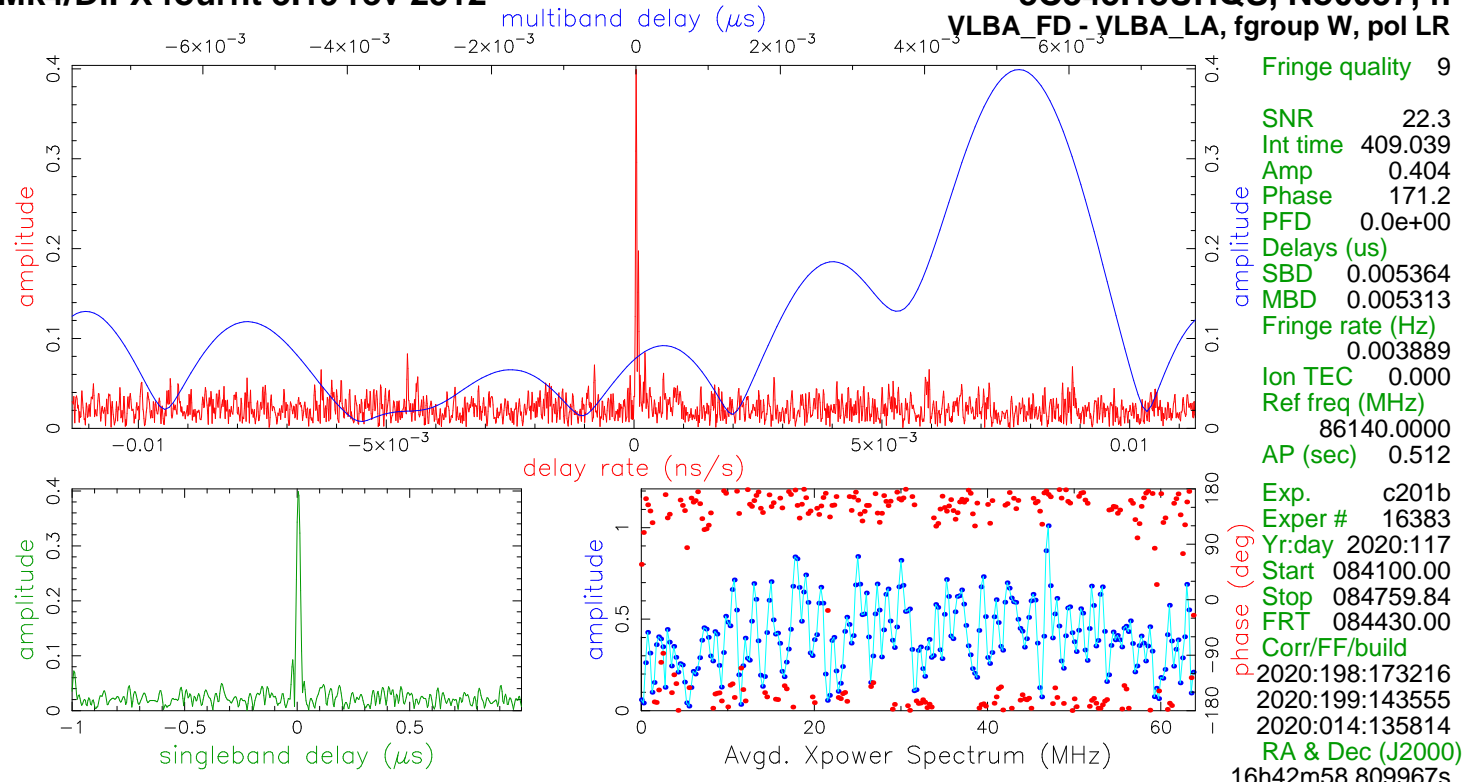


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-25.4	-28.2	-31.2	-24.7	-23.3	-27.1	-19.2	-31.9	Phase	-26.2
	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.6	Ampl.	0.8
	258.3	257.5	258.1	257.5	257.9	257.9	257.8	257.5	Sbd box	257.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) -9.21062655640E+02 Apriori delay (usec) -9.21065868159E+02 Resid mbdelay (usec) 3.21252E-03 +/- 2.6E-05
 Sband delay (usec) -9.21062555909E+02 Apriori clock (usec) 2.2982023E+00 Resid sbdelay (usec) 3.31225E-03 +/- 2.1E-04
 Phase delay (usec) -9.21065869003E+02 Apriori clockrate (us/s) 1.0899999E-07 Resid phdelay (usec) -8.44117E-07 +/- 8.8E-08
 Delay rate (us/s) 1.44108414264E-01 Apriori rate (us/s) 1.44108392956E-01 Resid rate (us/s) 2.13077E-08 +/- 3.6E-10
 Total phase (deg) -344.1 Apriori accel (us/s/s) 1.64574432916E-05 Resid phase (deg) -26.2 +/- 2.7

RMS Theor. Amplitude 0.760 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 48.1 6.6 Search (2048X32) 0.745 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 58.2 11.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 4.5 3.9 Inc. seg. avg. 1.064 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 9.1 6.8 Inc. frq. avg. 0.758 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 104.8 el 69.8 pa -57.1 l: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) -1035.485 2181.089 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bl..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bl.W.8.18UHQS



Fringe quality 9

SNR 22.3

Int time 409.039

Amp 0.404

Phase 171.2

PFD 0.0e+00

Delays (us)

SBD 0.005364

MBD 0.005313

Fringe rate (Hz)

0.003889

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c201b

Exper # 16383

Yr:day 2020:117

Start 084100.00

Stop 084759.84

FRT 084430.00

Corr/FF/build

2020:198:173216

2020:199:143555

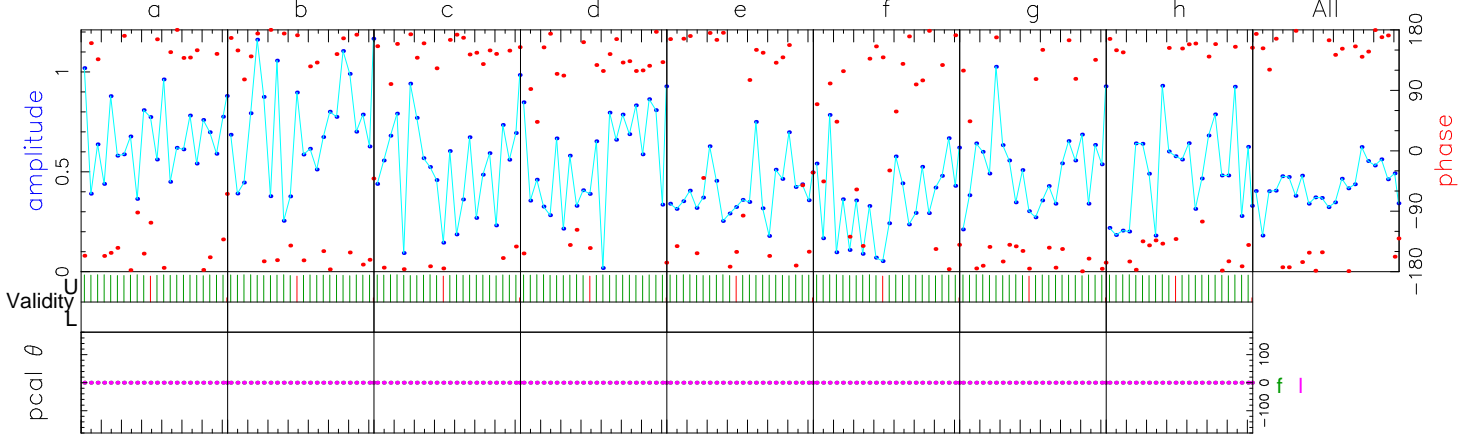
2020:014:135814

RA & Dec (J2000)

16h42m58.809967s

+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



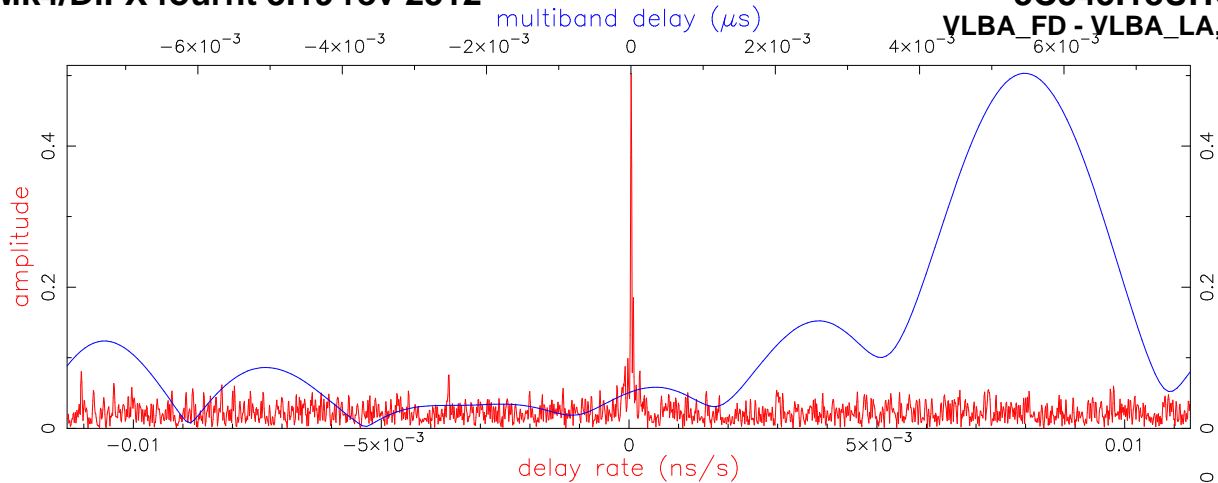
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-173.7	176.0	160.1	147.4	176.0	129.0	-179.9	-175.2	Phase	171.2
	0.5	0.6	0.5	0.4	0.3	0.2	0.4	0.4	Ampl.	0.4
	258.9	257.9	258.3	258.2	258.4	260.3	257.9	258.1	Sbd box	258.4
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-1.27288791593E+02	Apriori delay (usec)	-1.27294105069E+02	Resid mbdelay (usec)	5.31348E-03	+/-	4.9E-05
Sband delay (usec)	-1.27288740819E+02	Apriori clock (usec)	7.6062622E-07	Resid sbdelay (usec)	5.36425E-03	+/-	3.9E-04
Phase delay (usec)	-1.27294099548E+02	Apriori clockrate (us/s)	2.6000000E-07	Resid phdelay (usec)	5.52106E-06	+/-	1.7E-07
Delay rate (us/s)	-2.92518400319E-02	Apriori rate (us/s)	-2.92518851805E-02	Resid rate (us/s)	4.51486E-08	+/-	6.8E-10
Total phase (deg)		Apriori accel (us/s/s)	-4.69686302207E-06	Resid phase (deg)	171.2	+/-	5.1

ph/seg (deg)	22.9	Theor.	12.3	Amplitude	0.404 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	24.2	Search (2048X32)	0.397	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	22.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	32.3	Inc. seg. avg.	0.422	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011	0.011	
		Inc. frq. avg.	0.412	Data rate (Mb/s):	2048	ion window (TEC)	0.00	0.00	

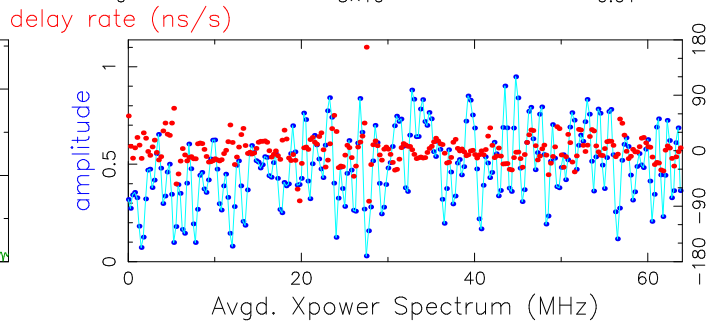
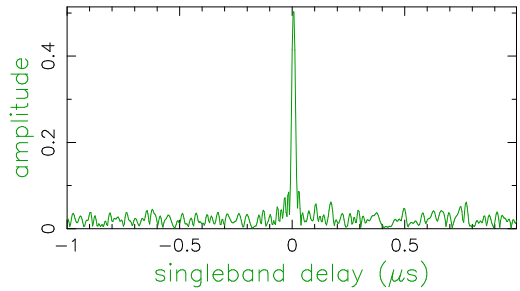
f: az 39.2 el 77.7 pa -133.6 l: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) 206.594 -821.060 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/fl..18UHQs Output file: /Exps/c201b/v1/1234/No0057/fl.W.118.18UHQs



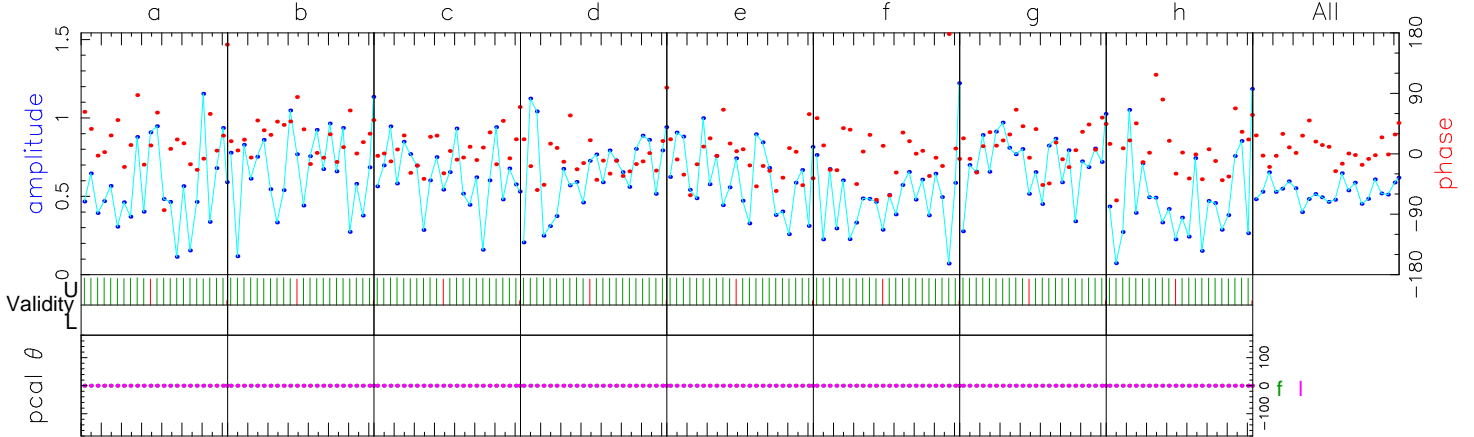
Fringe quality 8

SNR 28.4
Int time 409.037
Amp 0.514
Phase 6.1
PFD 0.0e+00
Delays (us)
SBD 0.005831
MBD 0.005498
Fringe rate (Hz)
0.003992
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143601
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

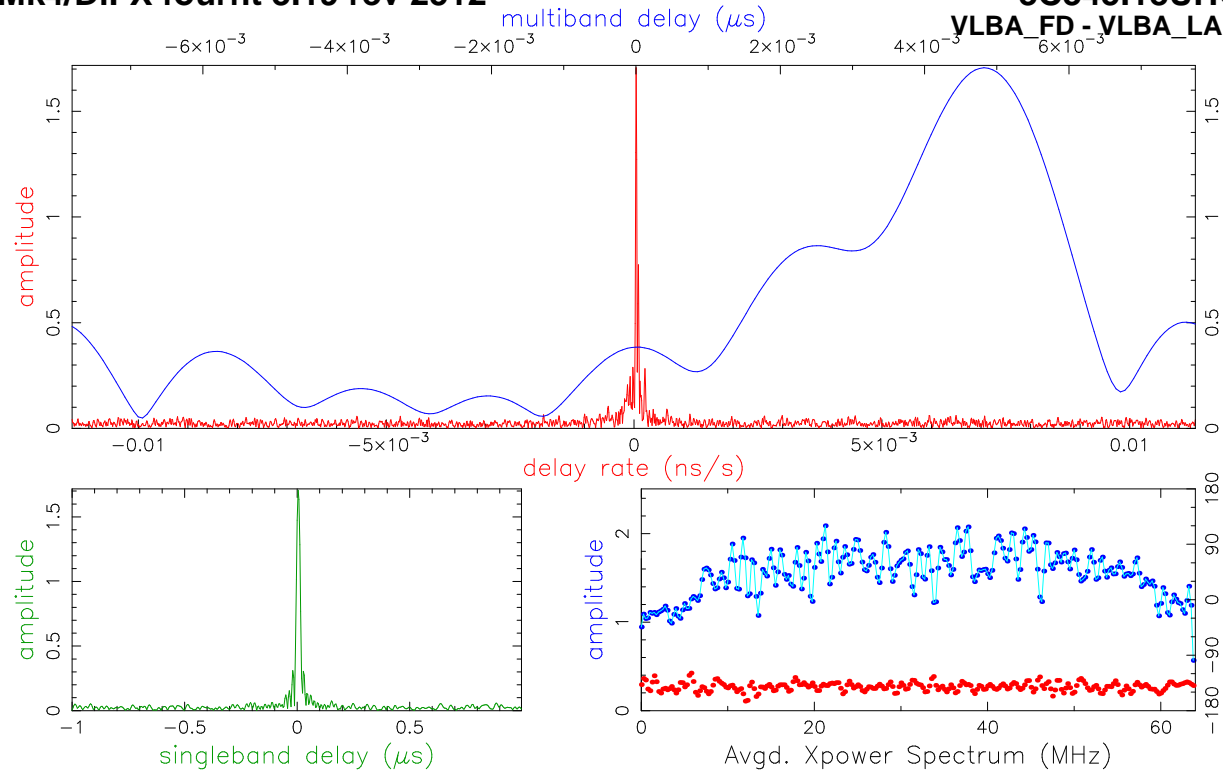


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	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)	-1.27288607187E+02	Apriori delay (usec)	-1.27294105069E+02	Resid mbdelay (usec)	5.49788E-03	+/-	3.8E-05
Sband delay (usec)	-1.27288273819E+02	Apriori clock (usec)	7.6062622E+00	Resid sbdelay (usec)	5.83125E-03	+/-	3.0E-04
Phase delay (usec)	-1.27294104871E+02	Apriori clockrate (us/s)	2.6000000E-07	Resid phdelay (usec)	1.97522E-07	+/-	1.3E-07
Delay rate (us/s)	-2.92518388373E-02	Apriori rate (us/s)	-2.92518851805E-02	Resid rate (us/s)	4.63432E-08	+/-	5.4E-10
Total phase (deg)	-69.7	Apriori accel (us/s/s)	-4.69686302207E-06	Resid phase (deg)	6.1	+/-	4.0

ph/seg (deg)	18.9	Theor.	9.7	Amplitude	0.514 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	12.6		16.9	Search (2048X32)	0.498	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	14.7		5.7	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	18.3		9.9	Inc. seg. avg.	0.523	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.514	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

f: az 39.2 el 77.7 pa -133.6 l: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) 206.594 -821.060 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/fl..18UHQs Output file: /Exps/c201b/v1/1234/No0057/fl.W.145.18UHQs

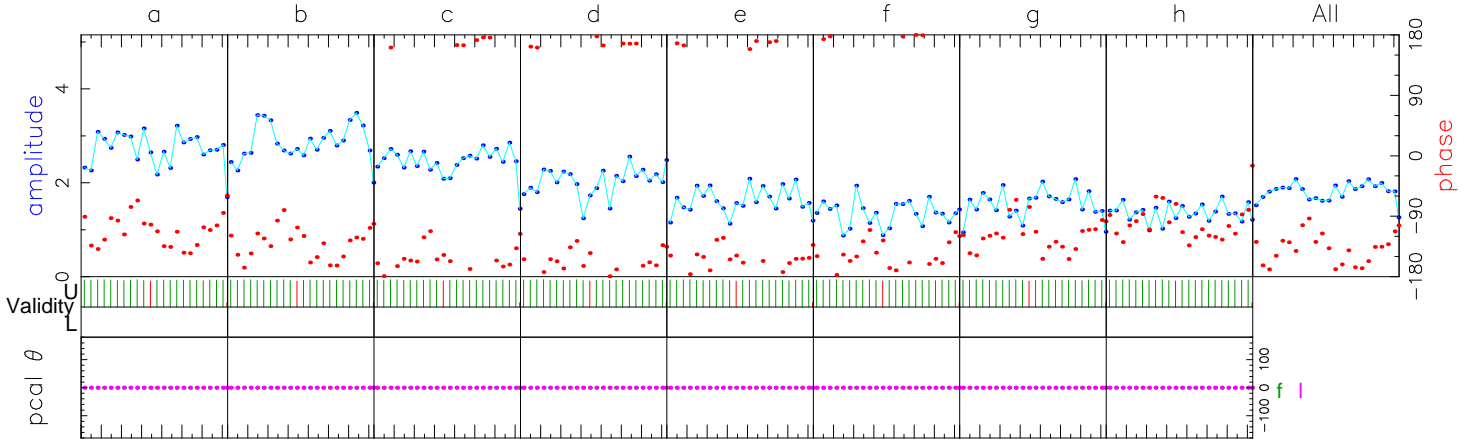


Fringe quality 5

SNR 95.0
Int time 409.038
Amp 1.717
Phase -139.6
PFD 0.0e+00
Delays (us)
SBD 0.004960
MBD 0.004841
Fringe rate (Hz)
0.003961
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

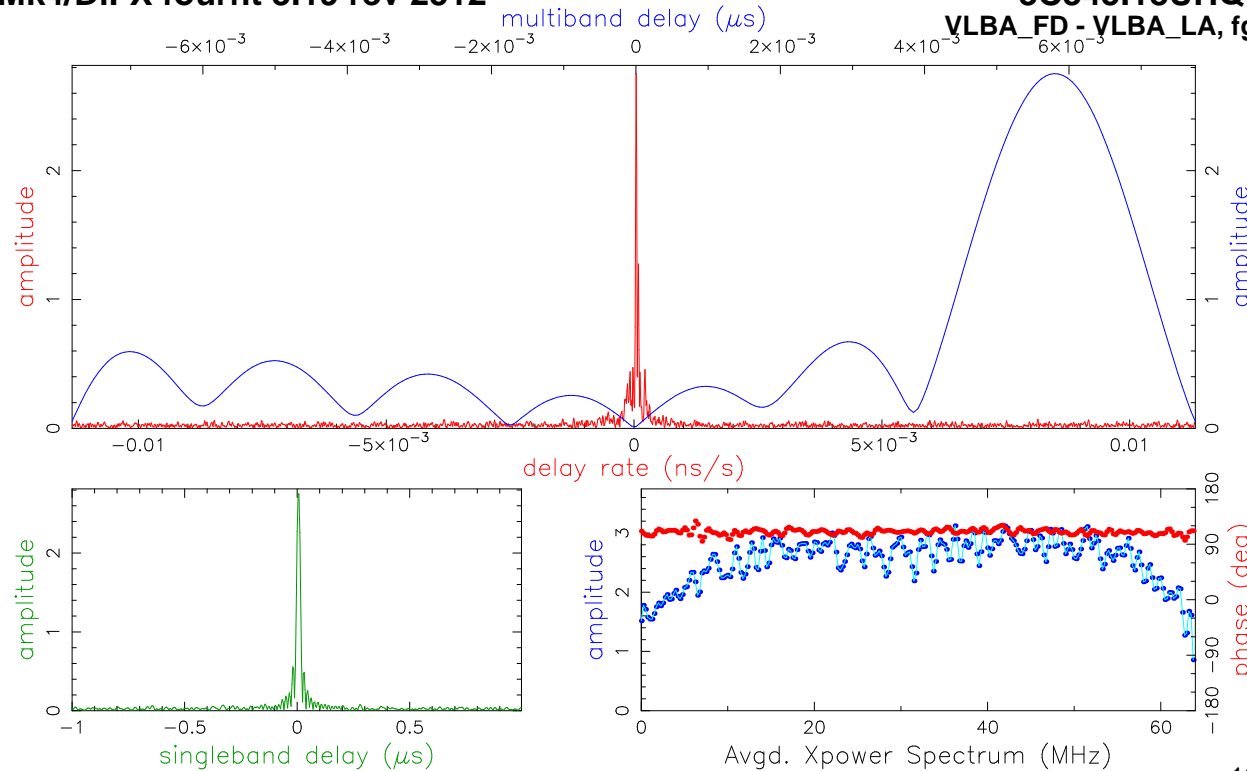
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143546
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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
	-112.0	-130.4	-164.0	-168.2	-164.5	-156.5	-120.7	-102.9	Phase	-139.6
	2.6	2.7	2.3	1.9	1.5	1.3	1.4	1.3	Ampl.	1.9
	258.5	257.8	258.3	258.0	258.5	258.6	258.3	258.6	Sbd box	258.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	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	PC amp	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.27289264468E+02		Apriori delay (usec)		-1.27294105069E+02		Resid mbdelay (usec)		4.84060E-03	+/- 1.1E-05
Sband delay (usec)	-1.27289145069E+02		Apriori clock (usec)		7.6062622E+00		Resid sbdelay (usec)		4.96000E-03	+/- 9.1E-05
Phase delay (usec)	-1.27294109572E+02		Apriori clockrate (us/s)		2.6000000E-07		Resid phdelay (usec)		-4.50312E-06	+/- 3.9E-08
Delay rate (us/s)	-2.92518392029E-02		Apriori rate (us/s)		-2.92518851805E-02		Resid rate (us/s)		4.59776E-08	+/- 1.6E-10
Total phase (deg)			Apriori accel (us/s/s)		-4.69686302207E-06		Resid phase (deg)		-139.6	+/- 1.2

ph/seg (deg) 21.5 2.9 Search (2048X32) 1.690 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 11.3 5.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 28.5 1.7 Inc. seg. avg. 1.826 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 32.7 3.0 Inc. frq. avg. 1.866 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 39.2 el 77.7 pa -133.6 l: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) 206.594 -821.060 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/fl..18UHQS Output file: /Exps/c201b/v1/1234/No0057/fl.W.82.18UHQS

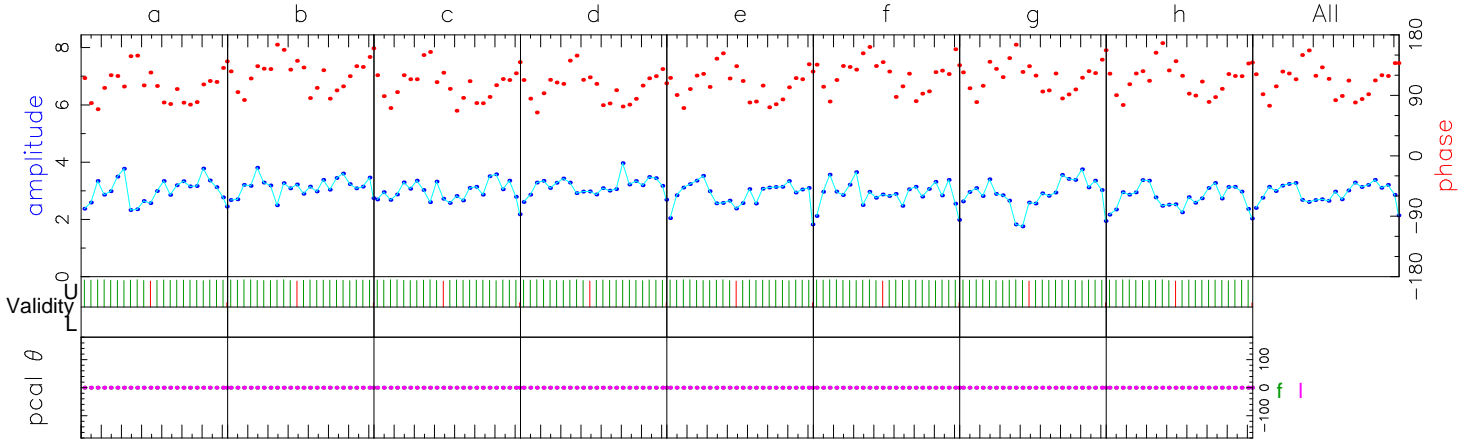


Fringe quality 8

SNR 155.7
Int time 409.038
Amp 2.816
Phase 110.7
PFD 0.0e+00
Delays (us)
SBD 0.005821
MBD 0.005758
Fringe rate (Hz)
0.003996
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143549
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

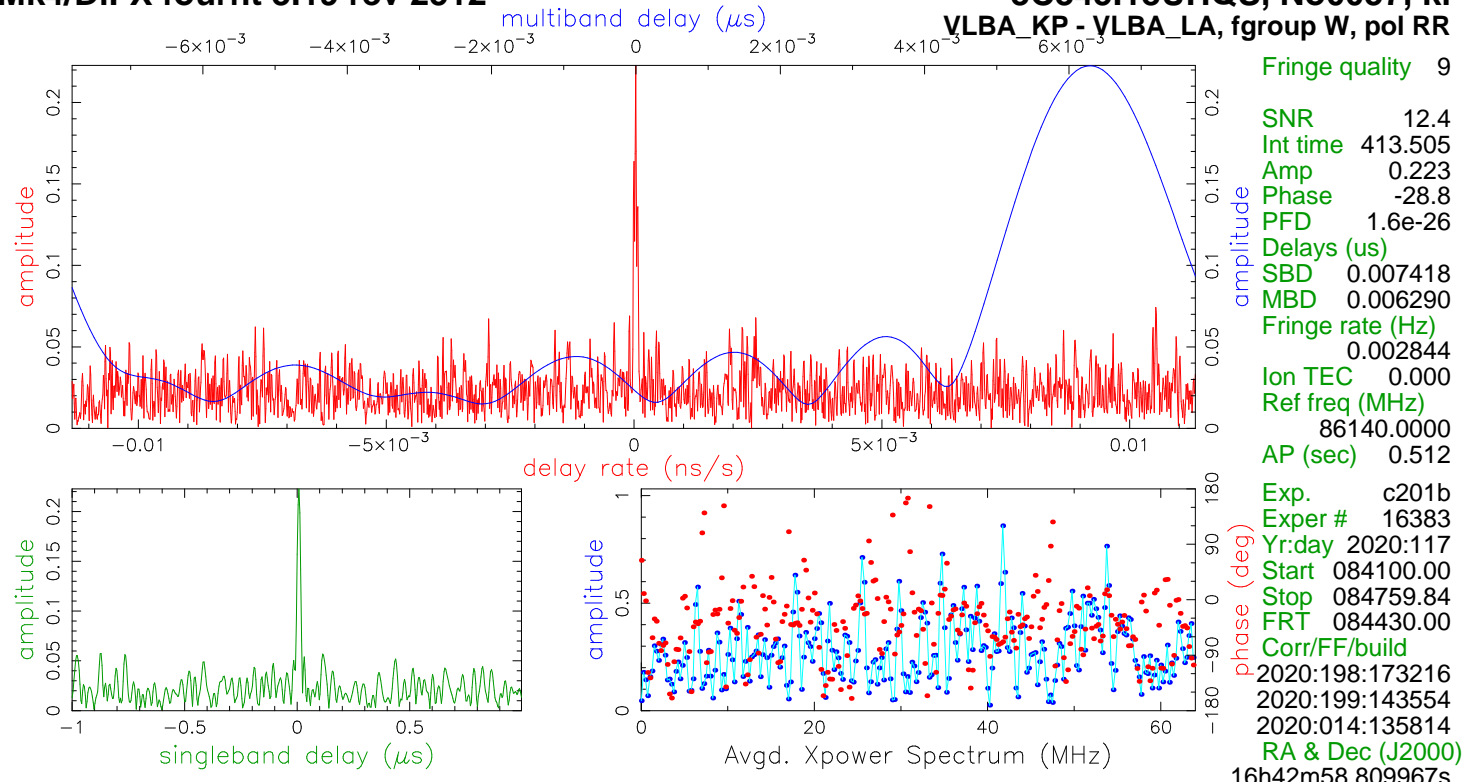


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-1.27288346749E+02				-1.27294105069E+02				Resid mbdelay (usec)	5.75832E-03 +/- 7.0E-06
Sband delay (usec)	-1.27288284319E+02				7.6062622E+07				Resid sbdelay (usec)	5.82075E-03 +/- 5.5E-05
Phase delay (usec)	-1.27294101498E+02				2.6000000E-07				Resid phdelay (usec)	3.57058E-06 +/- 2.4E-08
Delay rate (us/s)	-2.92518387905E-02				-2.92518851805E-02				Resid rate (us/s)	4.63900E-08 +/- 9.8E-11
Total phase (deg)			34.9		-4.69686302207E-06				Resid phase (deg)	110.7 +/- 0.7

ph/seg (deg) 22.0 1.8 Theor. Amplitude 2.816 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 11.0 3.1 Search (2048X32) 2.717 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 8.3 1.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 4.4 1.8 Inc. seg. avg. 2.955 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 f: az 39.2 el 77.7 pa -133.6 l: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) 206.594 -821.060 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/fl..18UHQs Output file: /Exps/c201b/v1/1234/No0057/fl.W.94.18UHQs simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

3C345.18UHQS, No0057, kl
VLBA_KP - VLBA_LA, fgroup W, pol RR



Fringe quality 9

SNR 12.4

Int time 413.505

Amp 0.223

Phase -28.8

PFD 1.6e-26

Delays (us)

SBD 0.007418

MBD 0.006290

Fringe rate (Hz)

0.002844

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c201b

Exper # 16383

Yr:day 2020:117

Start 084100.00

Stop 084759.84

FRT 084430.00

Corr/FF/build

2020:198:173216

2020:199:143554

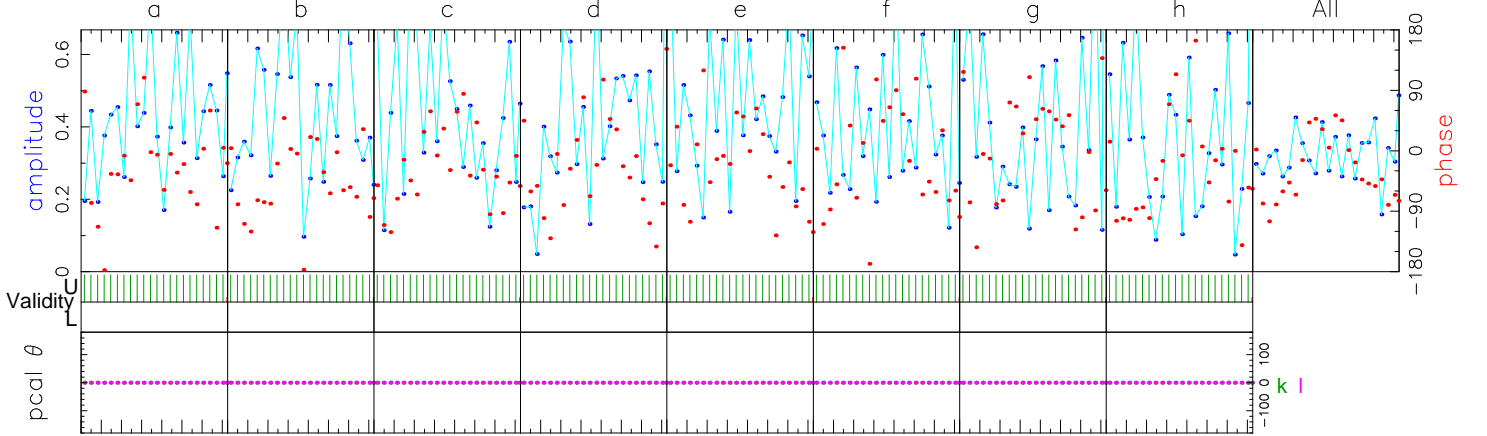
2020:014:135814

RA & Dec (J2000)

16h42m58.809967s

+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

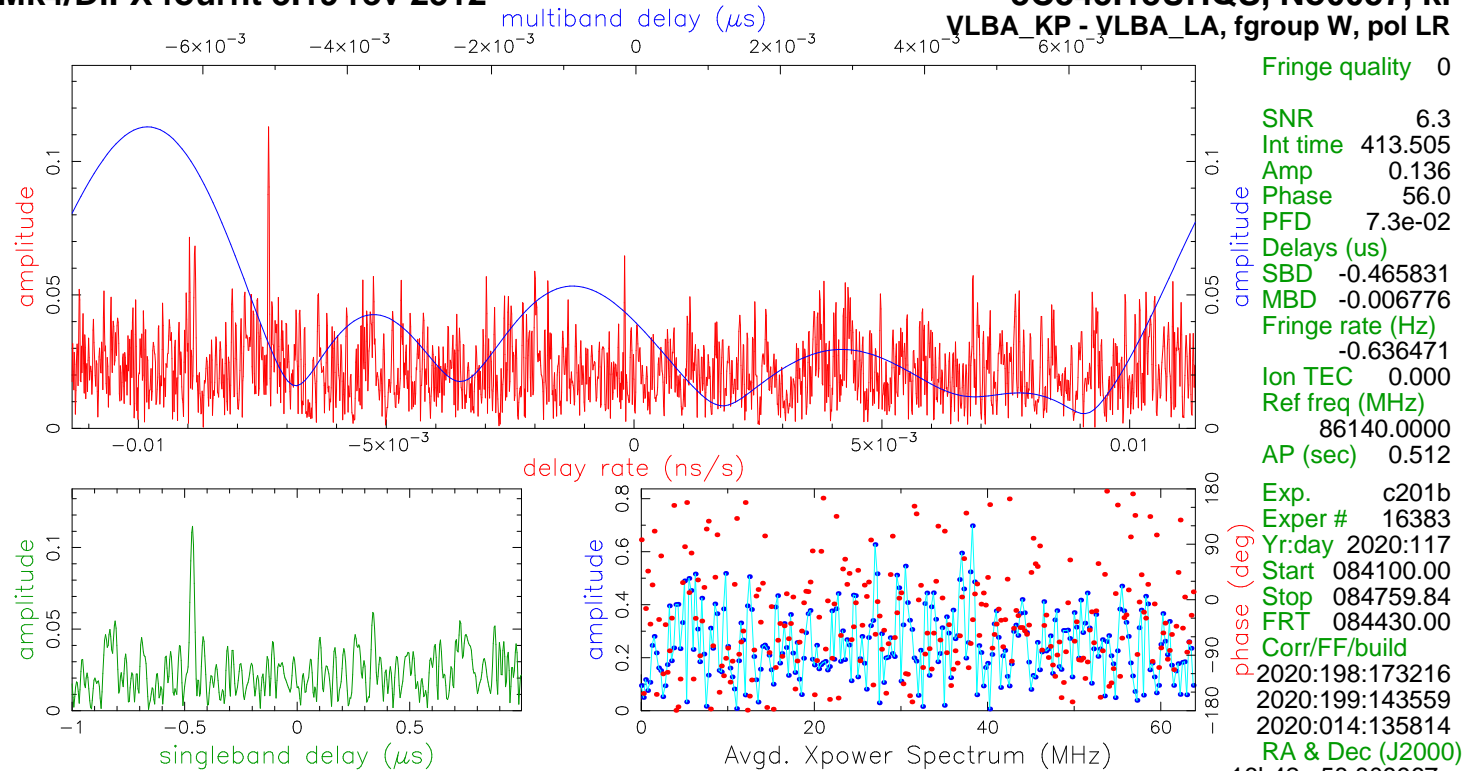


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-24.8	-37.5	-27.6	-33.4	-23.4	-20.1	-10.6	-48.0	Phase	-28.8
	0.2	0.3	0.3	0.2	0.3	0.2	0.1	0.2	Ampl.	0.2
	259.2	258.2	258.9	259.2	258.4	103.5	257.6	13.8	Sbd box	258.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	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)	-4.66539191784E+02		Apriori delay (usec)		-4.66545481407E+02		Resid mbdelay (usec)		6.28962E-03	+/- 8.8E-05
Sband delay (usec)	-4.66538063907E+02		Apriori clock (usec)		3.3618133E+00		Resid sbdelay (usec)		7.41750E-03	+/- 7.0E-04
Phase delay (usec)	-4.66545482336E+02		Apriori clockrate (us/s)		1.5640000E-07		Resid phdelay (usec)		-9.29028E-07	+/- 3.0E-07
Delay rate (us/s)	1.00659774910E-01		Apriori rate (us/s)		1.00659741897E-01		Resid rate (us/s)		3.30131E-08	+/- 1.2E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.49300729643E-06		Resid phase (deg)		-28.8	+/- 9.3

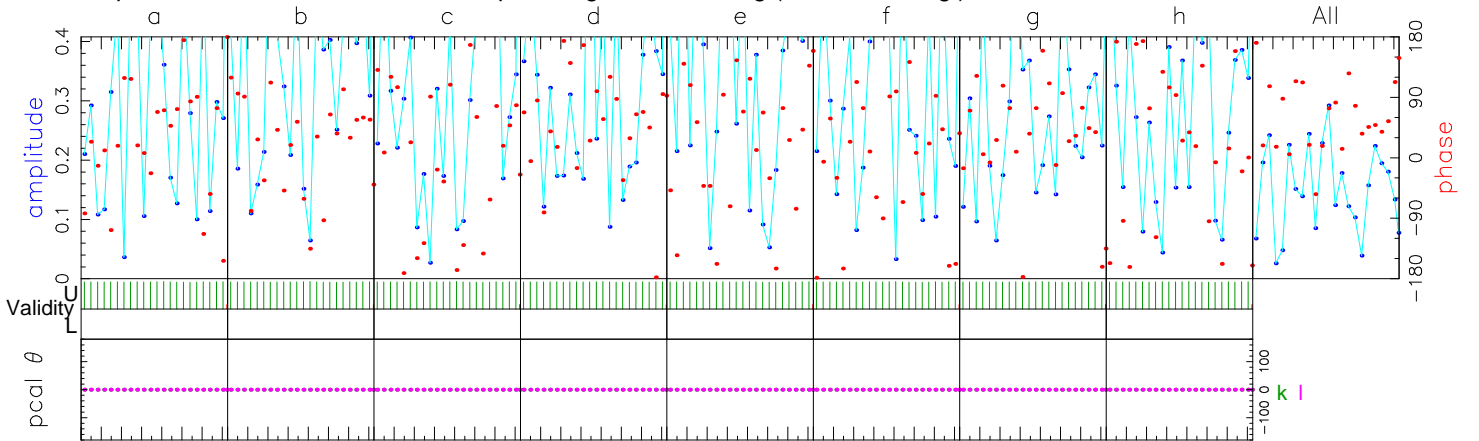
	RMS	Theor.	Amplitude	0.223 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	47.2	22.2	Search (2048X32)	0.222	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	52.7	38.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	12.4	13.1	Inc. seg. avg.	0.299	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	28.1	22.8	Inc. frq. avg.	0.220	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

k: az 56.4 el 73.7 pa -114.9 l: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) -753.933 -463.029 simultaneous interpolator

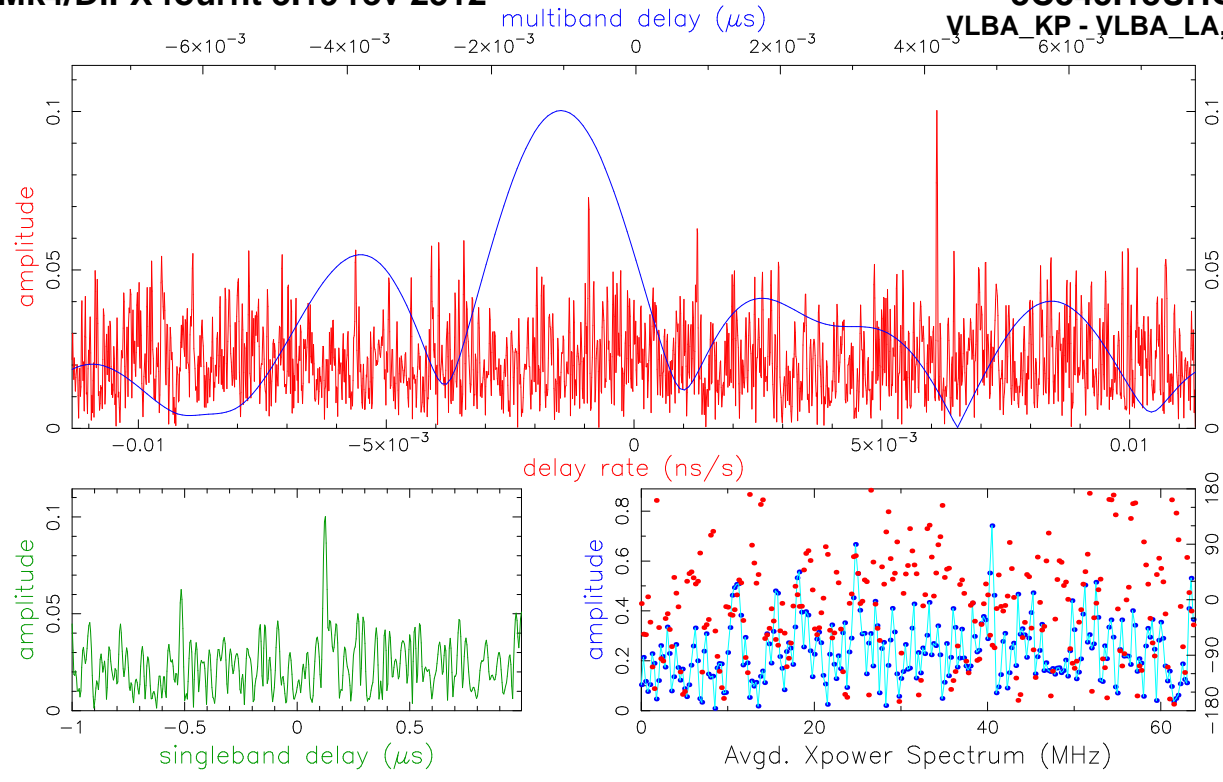
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/kl.18UHQS Output file: /Exps/c201b/v1/1234/No0057/kl.W.111.18UHQS



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

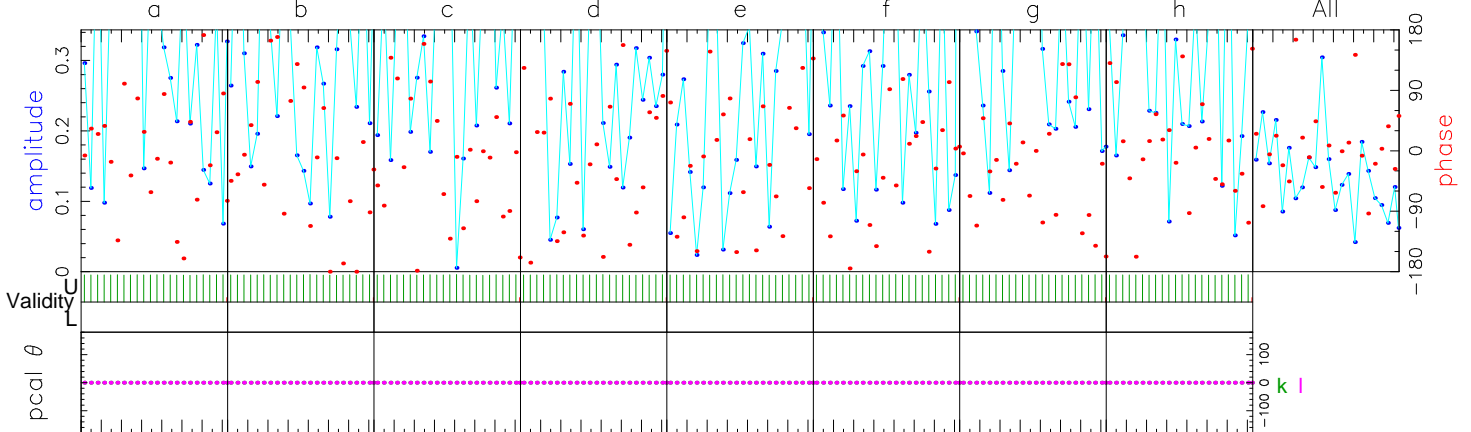


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
Group delay (usec)(sbd)	-4.67005382418E+02									
Sband delay (usec)	-4.67011312157E+02									
Phase delay (usec)	-4.66545479601E+02									
Delay rate (us/s)	1.00652353094E-01									
Total phase (deg)			-220.6							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode:	MANUAL	MANUAL								PC period (AP's) 5, 5
Pcal rate:	0.000E+00	0.000E+00								sb window (us) -1.000 1.000
Bits/sample:	2x2									mb window (us) -0.008 0.008
Sample rate(MISamp/s):	128									dr window (ns/s) -0.011 0.011
Data rate(Mb/s):	2048									ion window (TEC) 0.00 0.00
nlags:	256									
t_cohere	infinite									

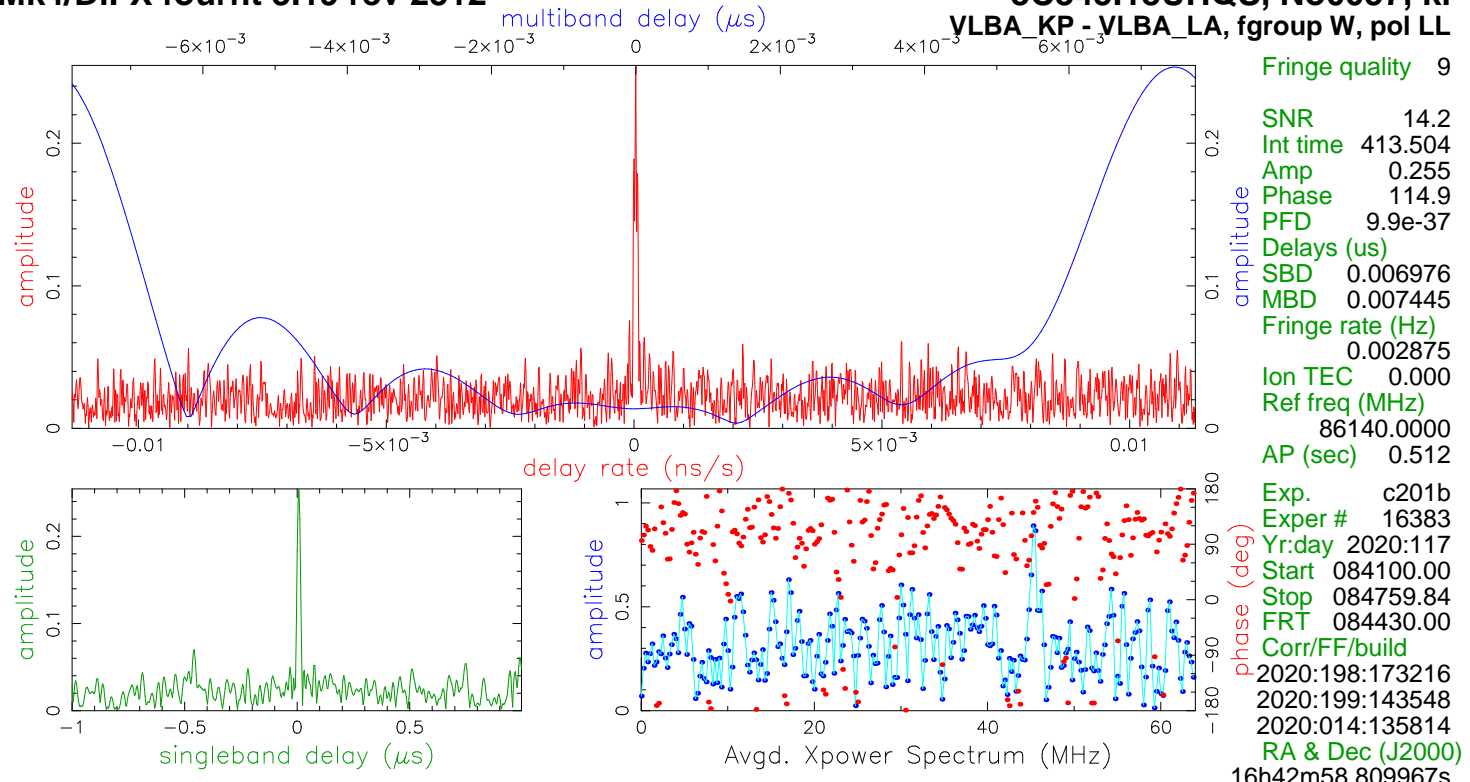


Fringe quality 0
SNR 5.6
Int time 413.504
Amp 0.115
Phase -14.5
PFD 9.9e-01
Delays (us)
SBD 0.123668
MBD -0.001022
Fringe rate (Hz) 0.527582
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143602
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-4.66421502962E+02									
Sband delay (usec)	-4.66421813657E+02									
Phase delay (usec)	-4.66545481873E+02									
Delay rate (us/s)	1.00665866597E-01									
Total phase (deg)			-291.1							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
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 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)	0.098									
Interp.	0.000									
Inc. seg. avg.	0.117									
Inc. frq. avg.	0.108									
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										

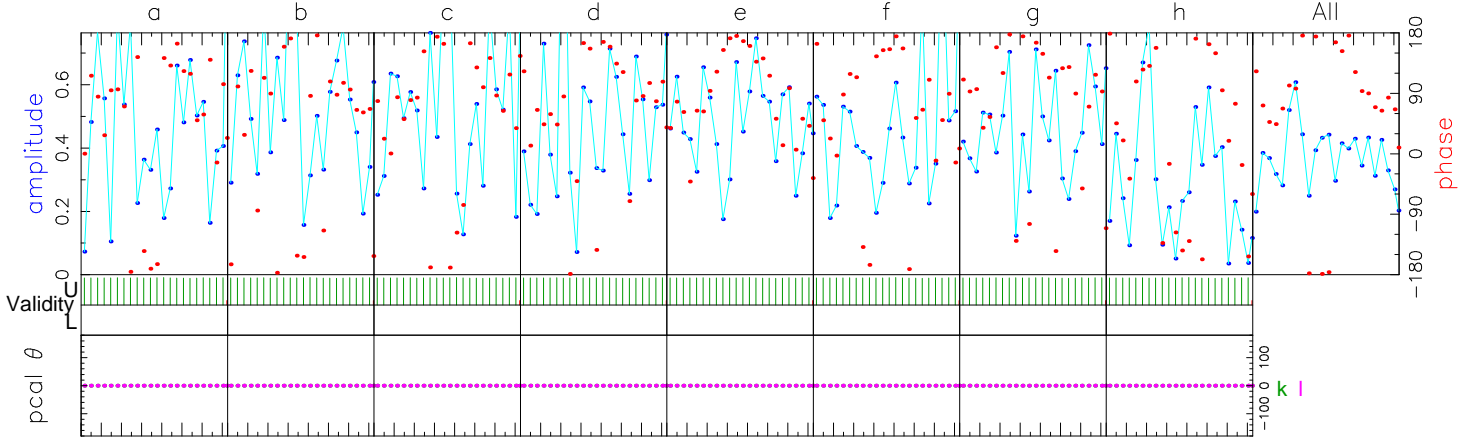


Fringe quality 9

SNR 14.2
Int time 413.504
Amp 0.255
Phase 114.9
PFD 9.9e-37
Delays (us)
SBD 0.006976
MBD 0.007445
Fringe rate (Hz) 0.002875
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143548
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-4.66538036659E+02								7.44475E-03	+/- 7.7E-05
Sband delay (usec)	-4.66538505657E+02								6.97575E-03	+/- 6.1E-04
Phase delay (usec)	-4.66545477702E+02								3.70472E-06	+/- 2.6E-07
Delay rate (us/s)	1.00659775277E-01								3.33802E-08	+/- 1.1E-09
Total phase (deg)			-161.7						114.9	+/- 8.1
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

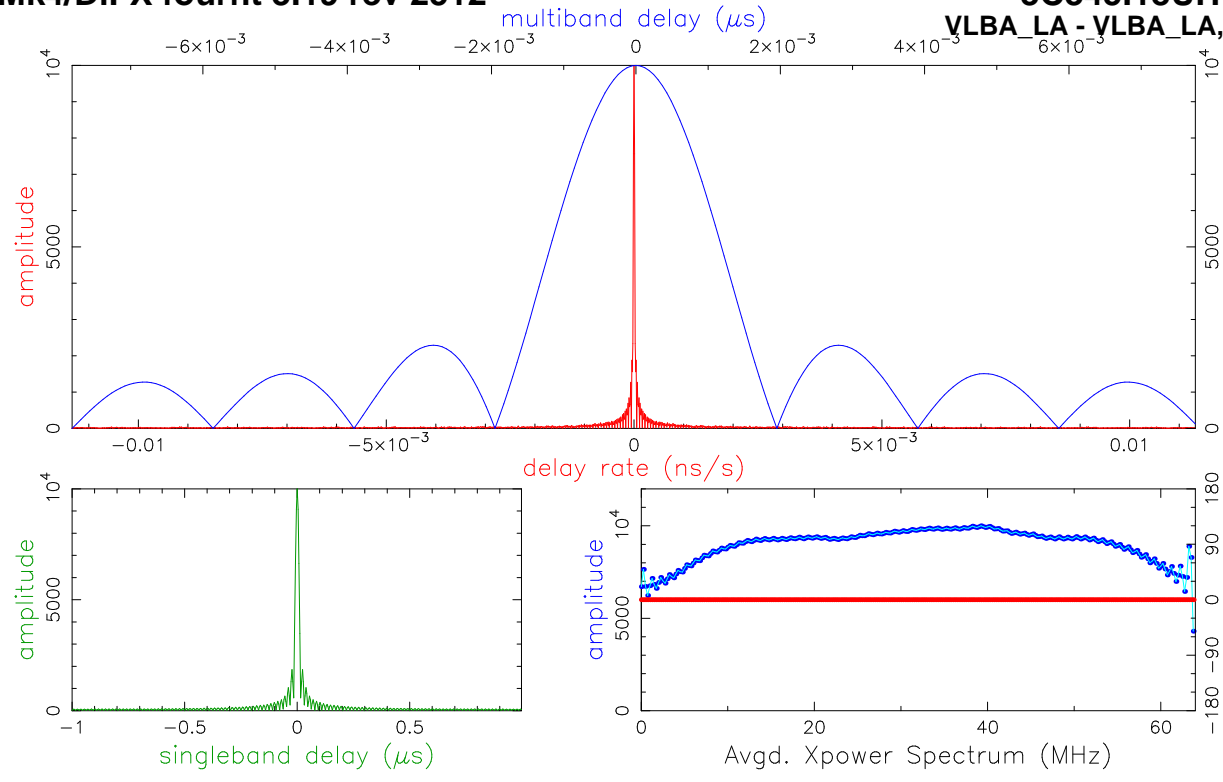
ph/seg (deg) 49.4 19.4
amp/seg (%) 59.6 33.9
ph/frq (deg) 16.6 11.4
amp/frq (%) 19.4 20.0

RMS Theor. Amplitude 0.255 +/- 0.018
Search (2048X32) 0.252
Interp. 0.000
Inc. seg. avg. 0.355
Inc. frq. avg. 0.256

PCal mode: MANUAL, MANUAL 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

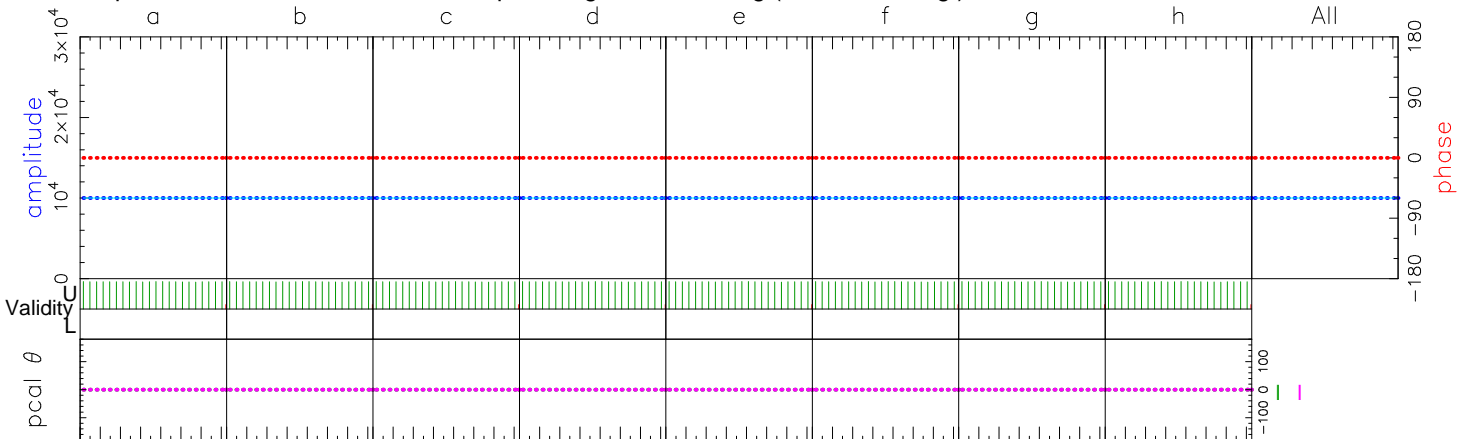
k: az 56.4 el 73.7 pa -114.9 l: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) -753.933 -463.029 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/kl.18UHQS Output file: /Exps/c201b/v1/1234/No0057/kl.W.91.18UHQS



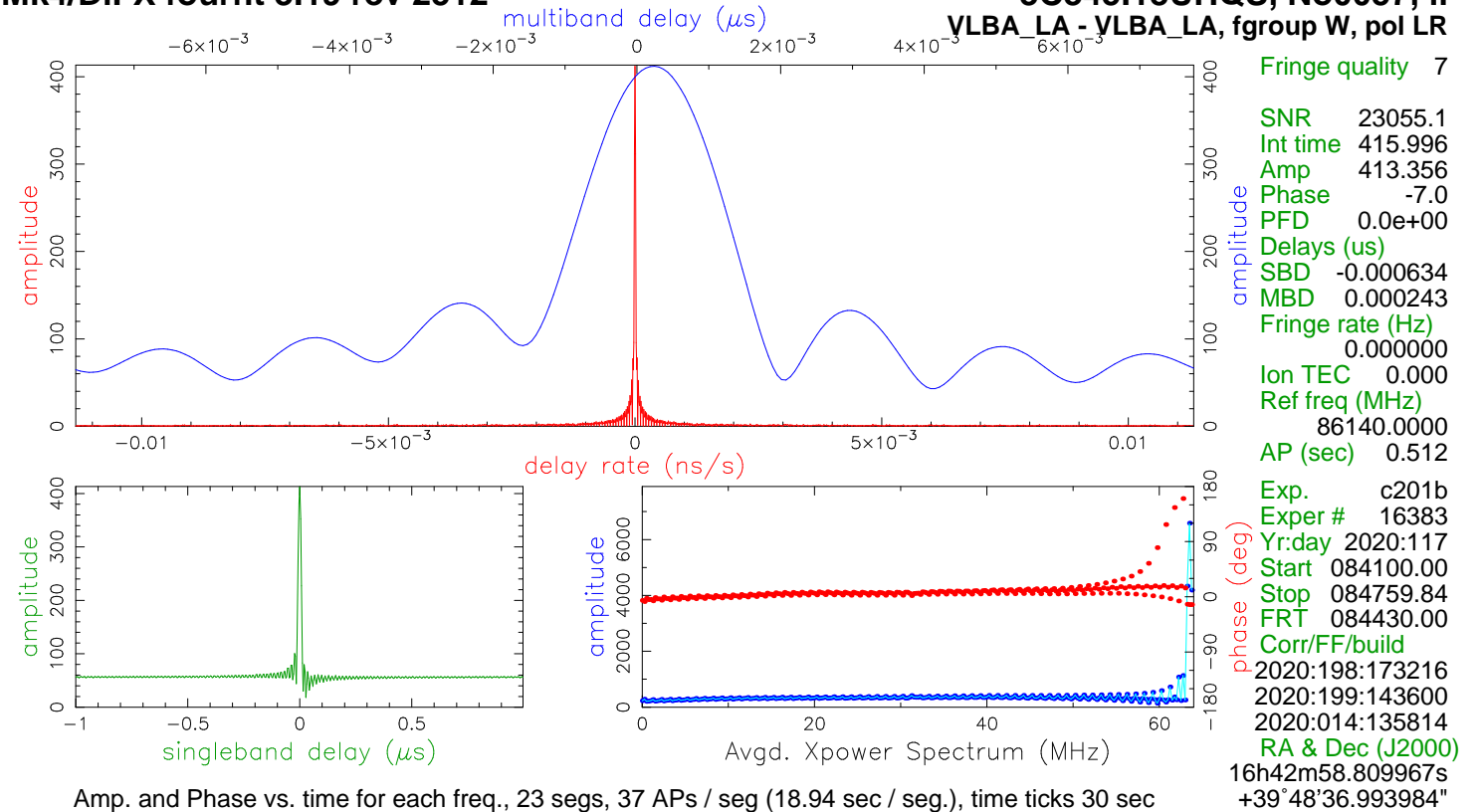
Fringe quality 9
SNR 557753.9
Int time 415.997
Amp 10000.002
Phase -0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Yr:day 16383
Start 2020:117
Stop 2020:117
FRT 084100.00
084759.84
084430.00
Corr/FF/build
2020:198:173216
2020:199:143556
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

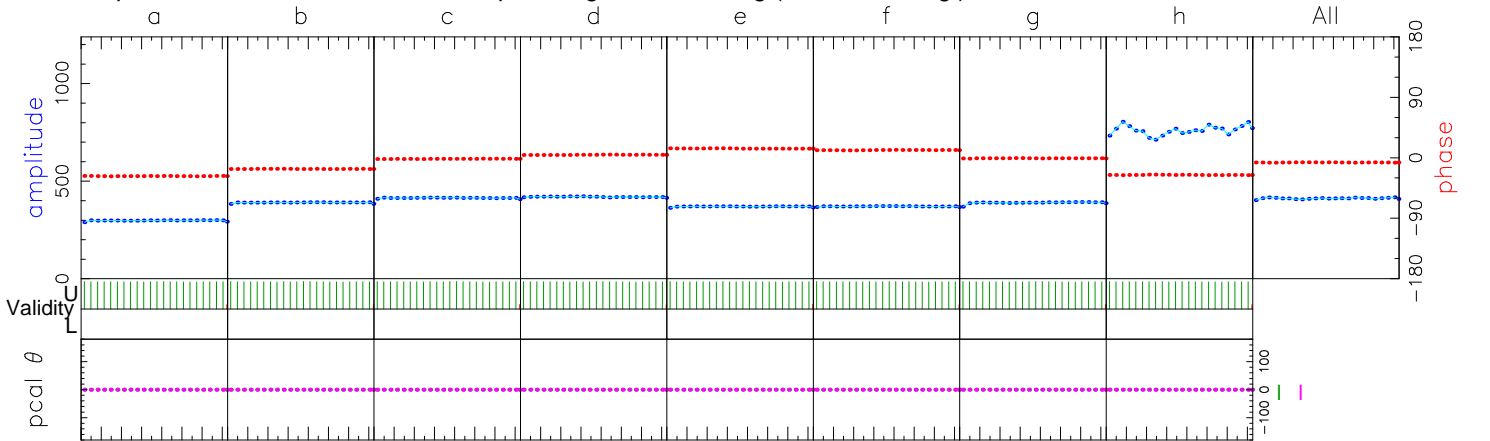


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820.0	10000.0
	1000	1000	1000	1000	1000	1000	1000	1000	1000.0	10000.0
	1000	1000	1000	1000	1000	1000	1000	1000	1000.0	10000.0
:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.0	0.0
:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.0	0.0
	1000	1000	1000	1000	1000	1000	1000	1000	1000.0	10000.0
	1000	1000	1000	1000	1000	1000	1000	1000	1000.0	10000.0
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
									Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 1.9E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 1.5E-08
Phase delay (usec)	-1.46044422436E-20	-1.46044422436E-20	-1.46044422436E-20	-1.46044422436E-20	-1.46044422436E-20	-1.46044422436E-20	-1.46044422436E-20	-1.46044422436E-20	-1.46044E-20	+/- 6.6E-12
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 2.7E-14
Total phase (deg)			-0.0						-0.0	+/- 0.0

ph/seg (deg) 0.0 0.0 Theor. Amplitude 10000.002 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 10000.003 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 I: az 64.0 el 79.5 pa -110.3 I: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/II..18UHQS Output file: /Exps/c201b/v1/1234/No0057/II.W.123.18UHQS simultaneous interpolator



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-27.2	-16.6	-1.6	4.4	13.8	11.4	-0.8	-25.5	Phase	-7.0
	298.6	390.7	414.2	419.8	370.3	371.3	389.8	761.0	Ampl.	427.0
	257.2	257.1	257.0	257.3	257.0	256.9	256.9	256.8	Sbd box	256.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
	1000	1000	1000	1000	1000	1000	1000	1000		
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.43218750000E-04								Resid mbdelay (usec)	2.43219E-04 +/- 4.7E-08
Sband delay (usec)	-6.33750000000E-04								Resid sbdelay (usec)	-6.33750E-04 +/- 3.7E-07
Phase delay (usec)	-2.24537485674E-07								Resid phdelay (usec)	-2.24537E-07 +/- 1.6E-10
Delay rate (us/s)	1.41711523917E-12								Resid rate (us/s)	1.41712E-12 +/- 6.6E-13
Total phase (deg)			-7.0						Resid phase (deg)	-7.0 +/- 0.0

ph/seg (deg) 0.2 0.0 Search (2048X32) 402.168 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

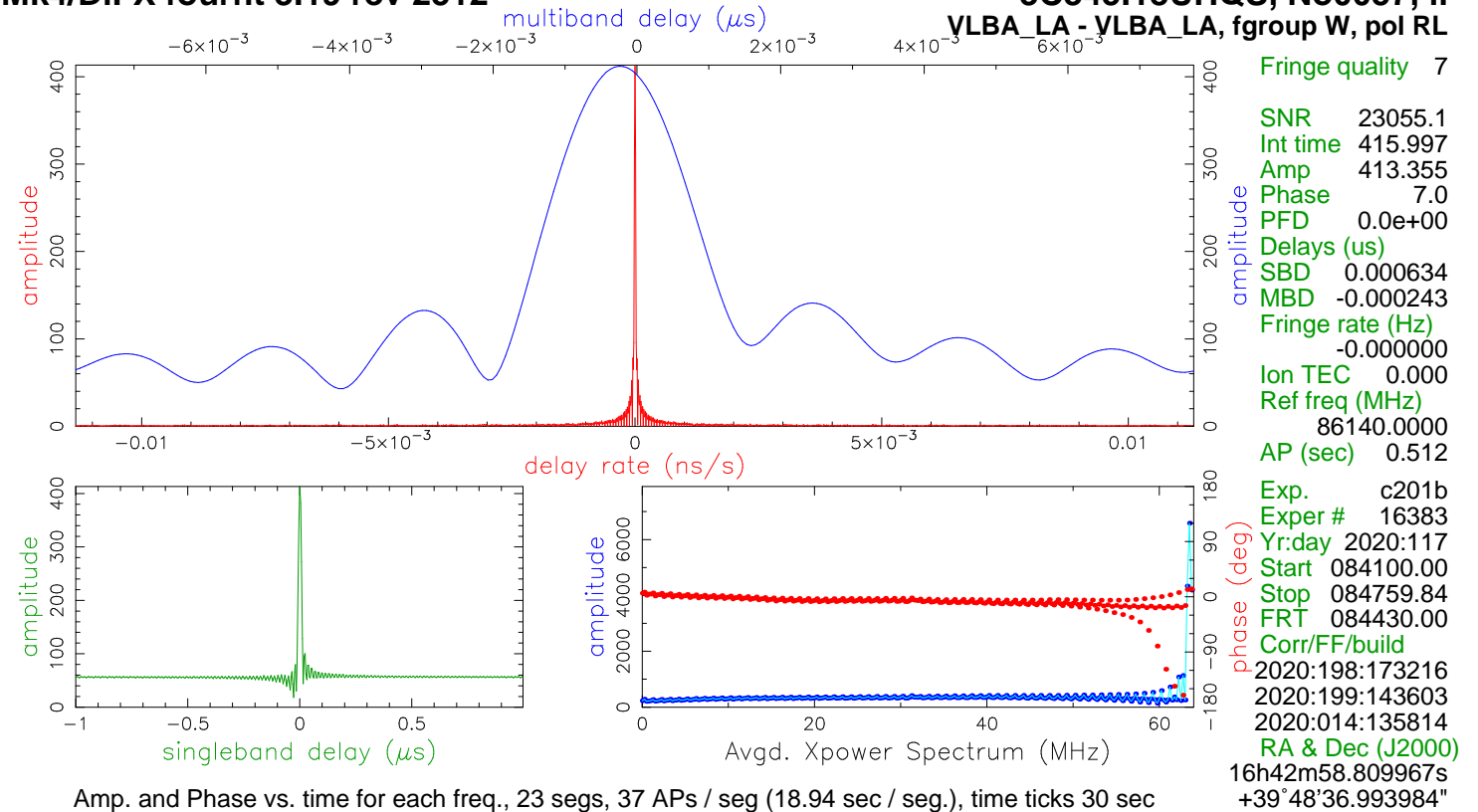
amp/seg (%) 0.9 0.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 17.4 0.0 Inc. seg. avg. 412.128 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

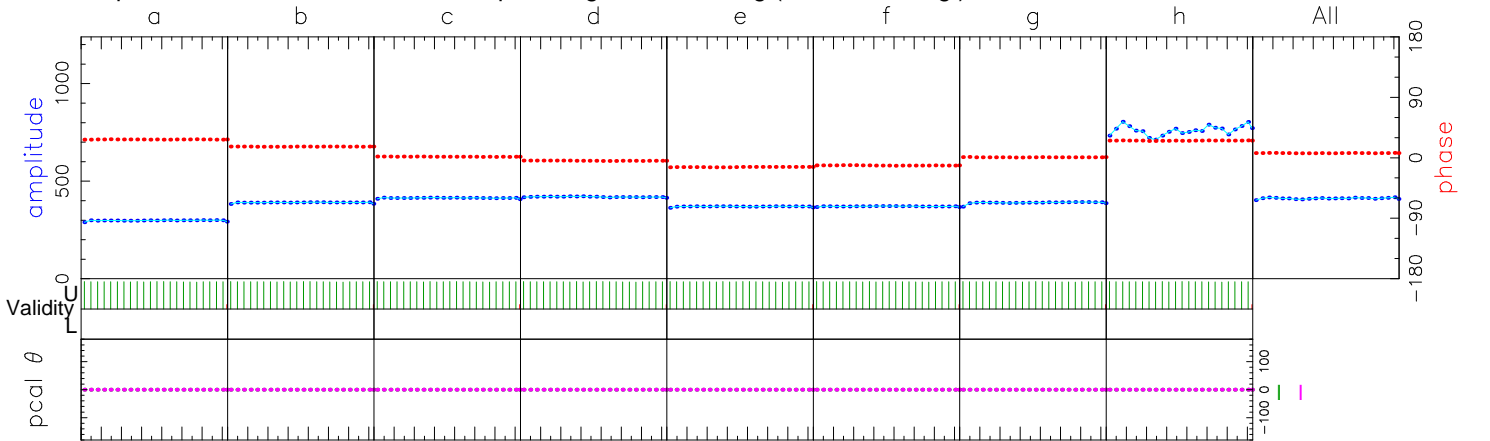
amp/frq (%) 31.9 0.0 Inc. frq. avg. 426.976 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

l: az 64.0 el 79.5 pa -110.3 l: az 64.0 el 79.5 pa -110.3 u,v (fr/asec) 0.000 0.000 ion window (TEC) 0.00 0.00

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/ll..18UHQ5 Output file: /Exps/c201b/v1/1234/No0057/ll.W.139.18UHQ5 simultaneous interpolator

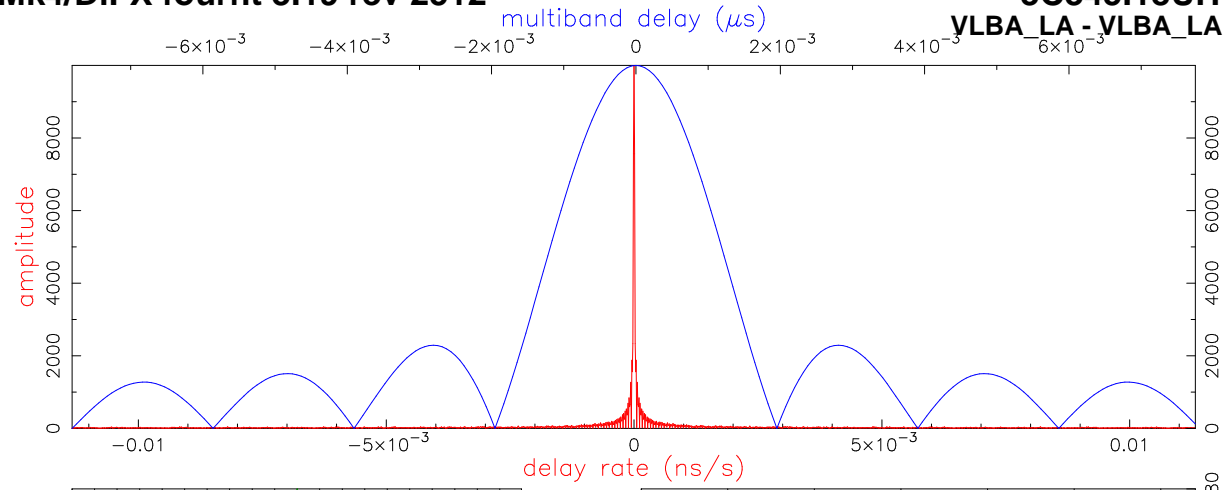


Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

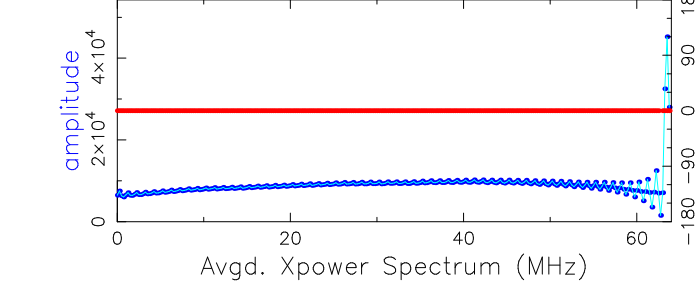
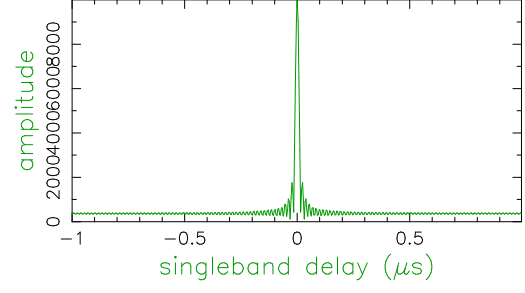


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
	1000	1000	1000	1000	1000	1000	1000	1000		
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.43218750000E-04								Resid mbdelay (usec)	-2.43219E-04 +/- 4.7E-08
Sband delay (usec)	6.33750000000E-04								Resid sbdelay (usec)	6.33750E-04 +/- 3.7E-07
Phase delay (usec)	2.24537485737E-07								Resid phdelay (usec)	2.24537E-07 +/- 1.6E-10
Delay rate (us/s)	-1.41711523917E-12								Resid rate (us/s)	-1.41712E-12 +/- 6.6E-13
Total phase (deg)			7.0						Resid phase (deg)	7.0 +/- 0.0

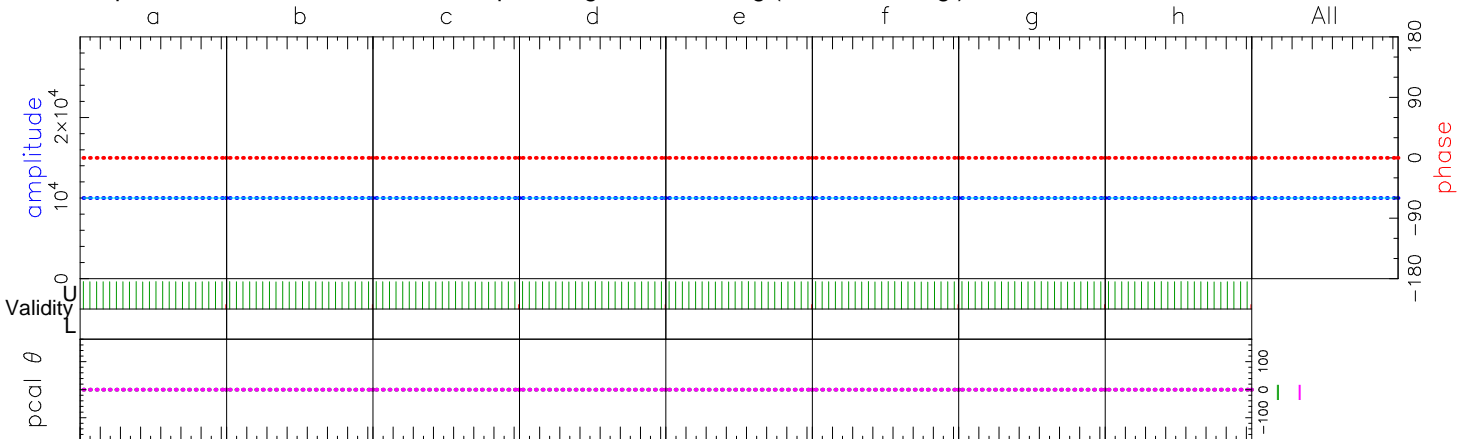
	RMS	Theor.	Amplitude	413.355 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	0.2	0.0	Search (2048X32)	402.168	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	0.9	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	17.4	0.0	Inc. seg. avg.	412.127	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	31.9	0.0	Inc. frq. avg.	426.976	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00



Fringe quality 9
 SNR 557753.4
 Int time 415.996
 Amp 9999.995
 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. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084100.00
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143550
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"



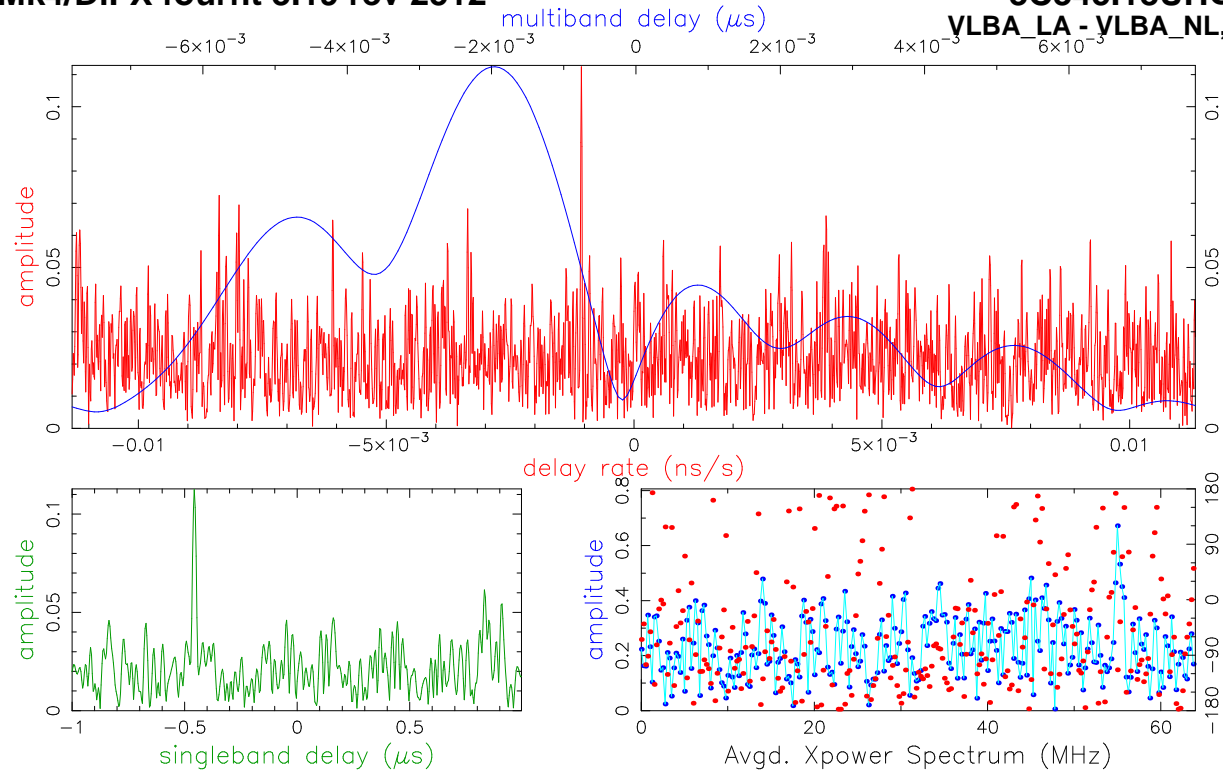
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
I	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	10000.0
l	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
l:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
l:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
l	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		+/- 1.9E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		+/- 1.5E-08
Phase delay (usec)	-1.36252980936E-19	-1.36252980936E-19	-1.36252980936E-19	-1.36252980936E-19	-1.36252980936E-19	-1.36252980936E-19	-1.36252980936E-19	-1.36252980936E-19		+/- 6.6E-12
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		+/- 2.7E-14
Total phase (deg)			-0.0							+/- 0.0
	RMS	Theor.	Amplitude	9999.995 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	0.0	0.0	Search (2048X32)	9999.995	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.	9999.995	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

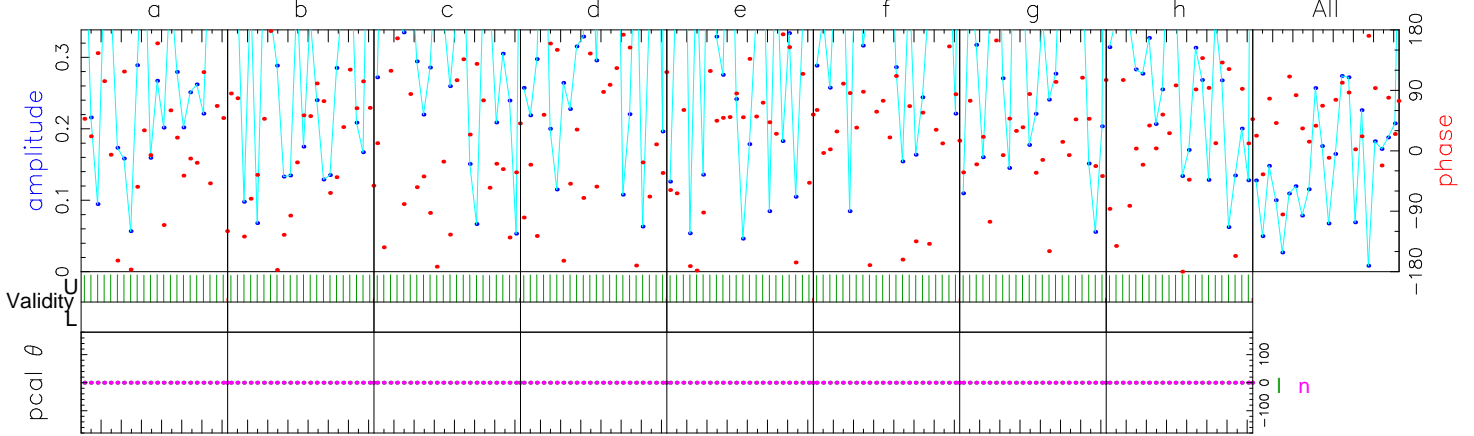
Mk4/DiFX fourfit 3.19 rev 2512

3C345.18UHQS, No0057, In VLBA_LA - VLBA_NL, fgroup W, pol LR



Fringe quality 0
 SNR 6.2
 Int time 411.346
 Amp 0.113
 Phase 55.2
 PFD 1.1e-01
 Delays (us)
 SBD -0.456932
 MBD -0.001963
 Fringe rate (Hz)
 -0.091894
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084100.51
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143601
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

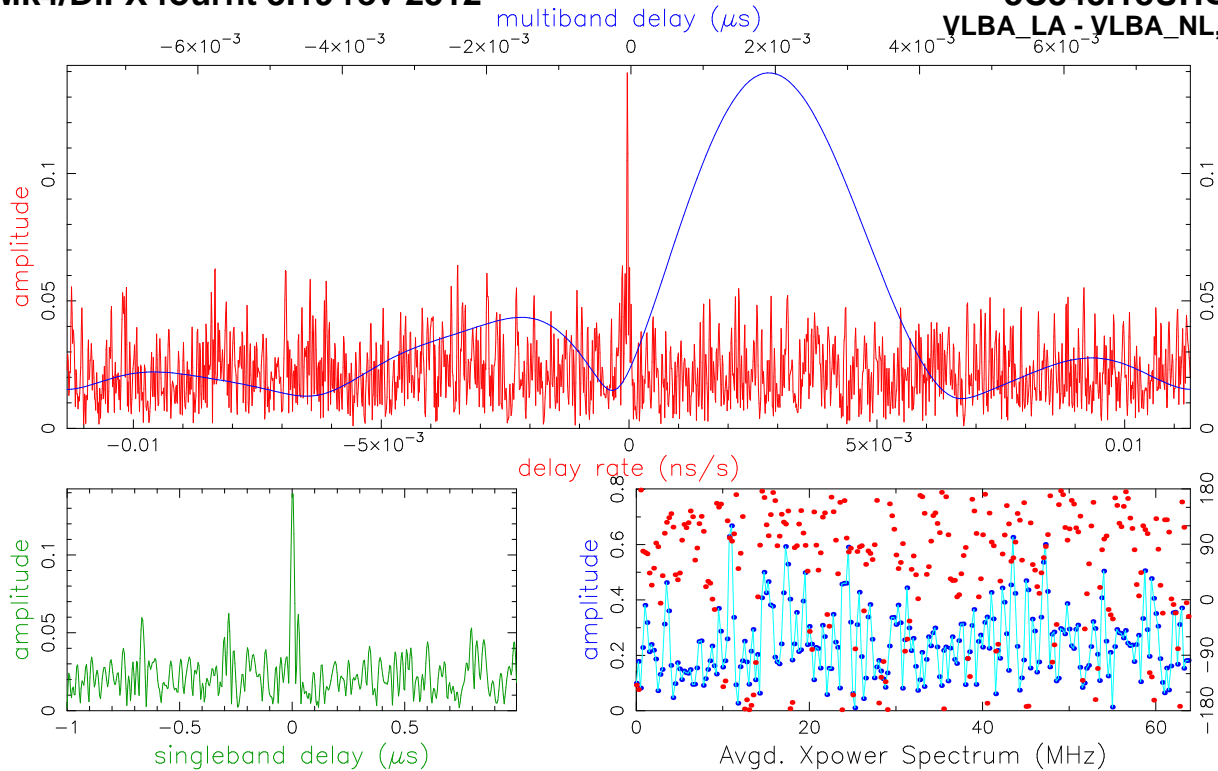


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	819/0	819/0	819/0	819/0	819/0	819/0	819/0	819/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.01605097369E+02									
Sband delay (usec)	-3.01606940459E+02									
Phase delay (usec)	-3.01150007177E+02									
Delay rate (us/s)	2.42144812863E-01									
Total phase (deg)			-222.6							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									55.2	+/- 18.4
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 57.4 44.1 Search (2048X32) 0.113 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 76.5 76.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 72.4 26.0 Inc. seg. avg. 0.112 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 50.6 45.4 Inc. frq. avg. 0.112 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 l: az 64.0 el 79.5 pa -110.3 n: az 222.0 el 87.3 pa 44.3 u,v (fr/asec) -1814.725 -819.151 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/ln..18UHQS Output file: /Exps/c201b/v1/1234/No0057/ln.W.144.18UHQS

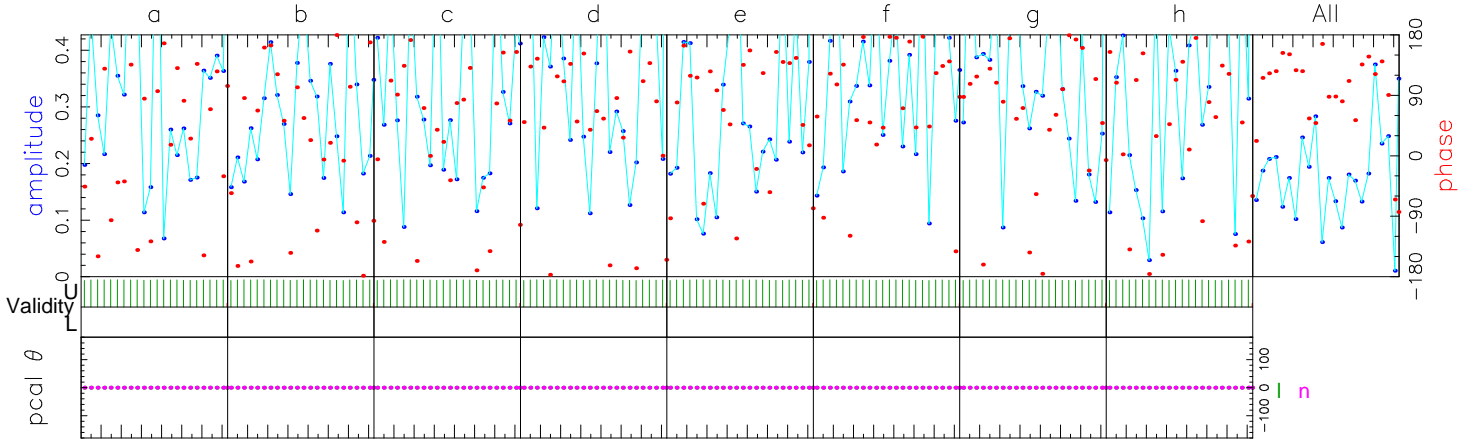
Mk4/DiFX fourfit 3.19 rev 2512

3C345.18UHQS, No0057, In VLBA_LA - VLBA_NL, fgroup W, pol RL



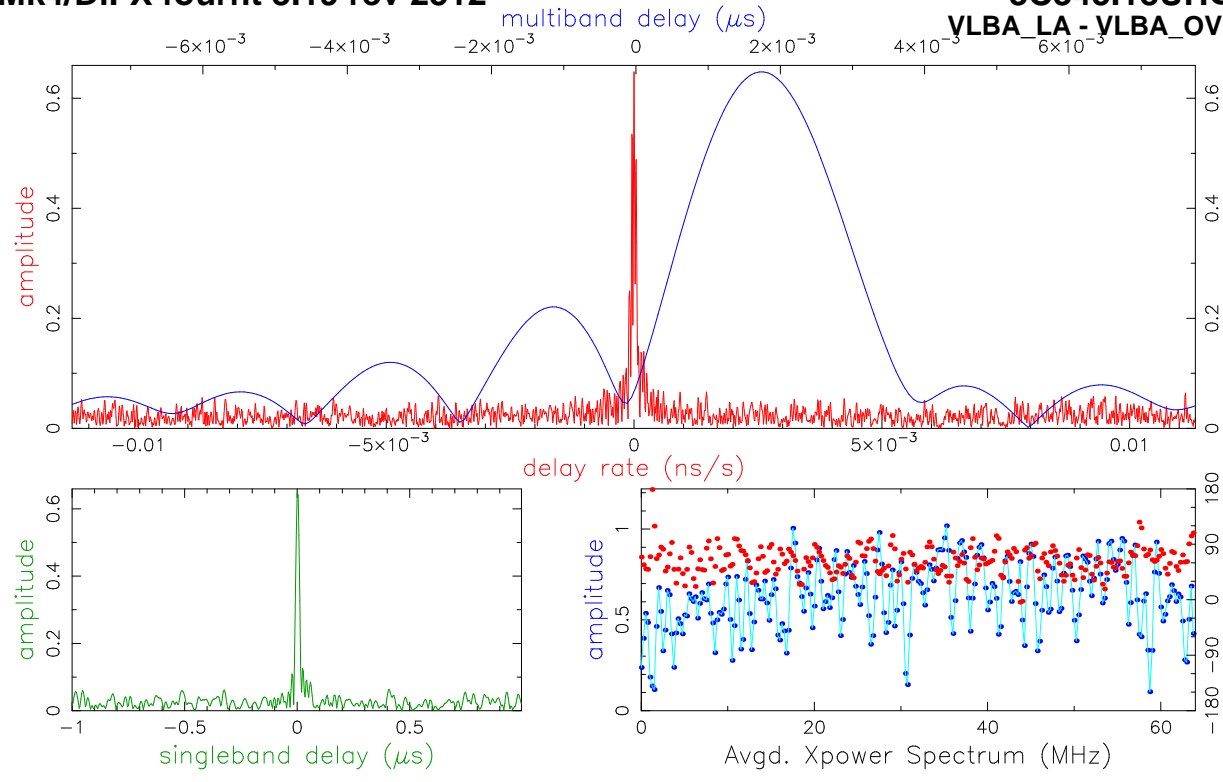
Fringe quality 9
 SNR 7.9
 Int time 411.347
 Amp 0.142
 Phase 108.7
 PFD 9.4e-07
 Delays (us)
 SBD 0.001884
 MBD 0.001942
 Fringe rate (Hz) -0.003199
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084100.51
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143605
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	819/0	819/0	819/0	819/0	819/0	819/0	819/0	819/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		-3.0114806689E+02			-3.01150008959E+02				1.94227E-03	+/- 1.4E-04
Sband delay (usec)		-3.01148124709E+02			-3.5996647E+01				1.88425E-03	+/- 1.1E-03
Phase delay (usec)		-3.01150005453E+02			-4.8500001E-07				3.50599E-06	+/- 4.7E-07
Delay rate (us/s)		2.42145842527E-01			2.42145879663E-01				-3.71362E-08	+/- 1.9E-09
Total phase (deg)			-169.1		-4.46465191760E-06				108.7	+/- 14.5
pcal mode:					MANUAL				MANUAL	
PCal rate:					0.000E+00				0.000E+00	(us/s)
Bits/sample:					2x2				SampCntNorm: enabled	
Sample rate(MSamp/s):					128					
Data rate(Mb/s):					2048				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) 54.0 34.8 Search (2048X32) 0.136 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 59.5 60.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 16.4 20.5 Inc. seg. avg. 0.149 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 42.5 35.8 Inc. frq. avg. 0.135 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 l: az 64.0 el 79.5 pa -110.3 n: az 222.0 el 87.3 pa 44.3 u,v (fr/asec) -1814.725 -819.151 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/ln..18UHQS Output file: /Exps/c201b/v1/1234/No0057/ln.W.159.18UHQS

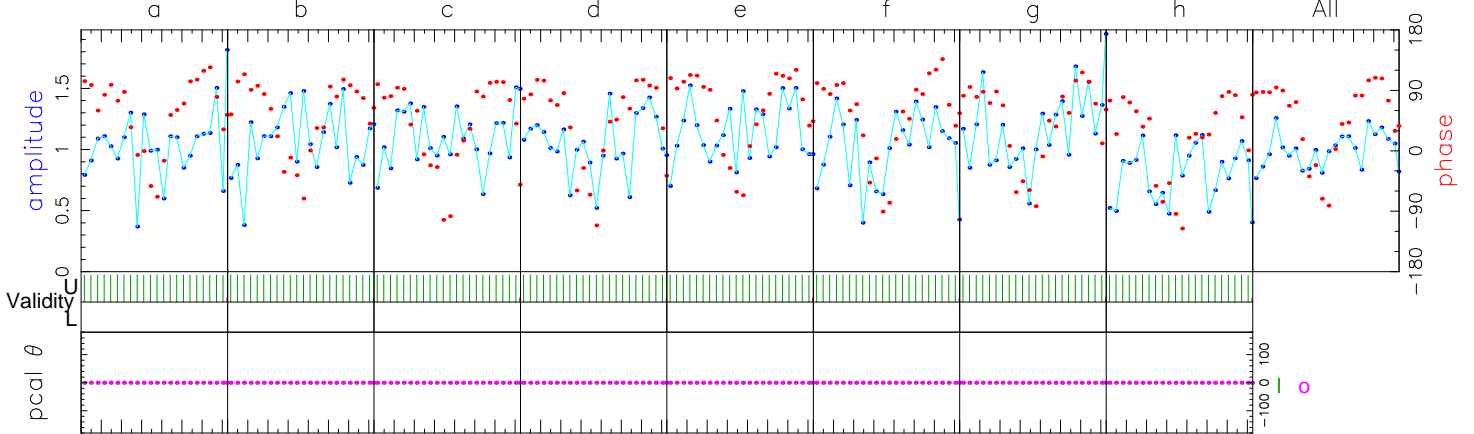


Fringe quality 6

SNR 36.6
Int time 411.485
Amp 0.660
Phase 61.9
PFD 0.0e+00
Delays (us)
SBD 0.001741
MBD 0.001781
Fringe rate (Hz) 0.000411
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143552
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



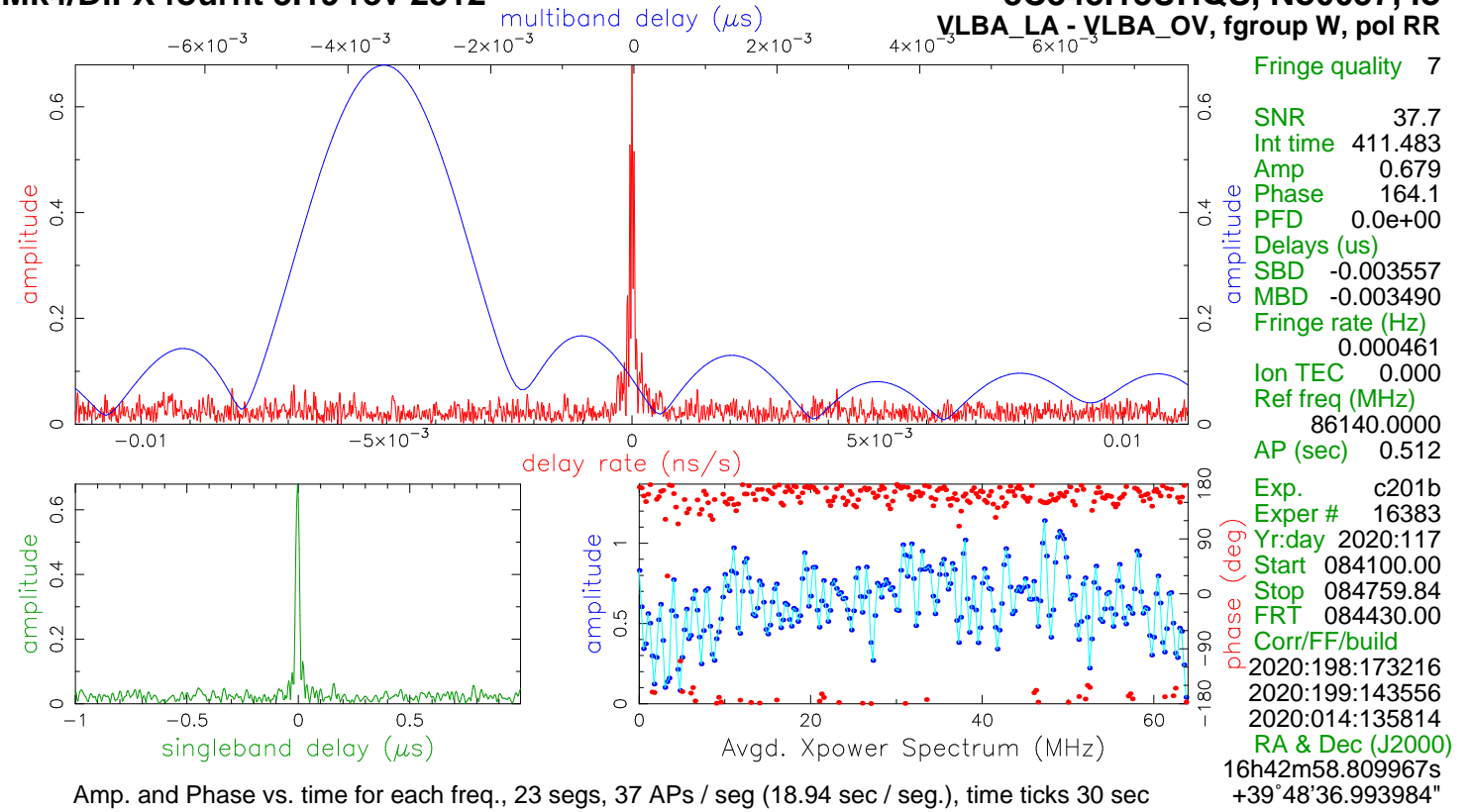
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.53460092244E+02					7.53458311276E+02			Resid mbdelay (usec)	1.78097E-03 +/- 3.0E-05
Sband delay (usec)	7.53460052026E+02					-2.3796095E+01			Resid sbdelay (usec)	1.74075E-03 +/- 2.4E-04
Phase delay (usec)	7.53458313273E+02					-3.5200000E-07			Resid phdelay (usec)	1.99719E-06 +/- 1.0E-07
Delay rate (us/s)	-1.86798402356E-01					-1.86798407130E-01			Resid rate (us/s)	4.77426E-09 +/- 4.2E-10
Total phase (deg)			37.9			-5.60236238609E-06			Resid phase (deg)	61.9 +/- 3.1
	RMS	Theor.	Amplitude	0.660 +/- 0.018					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	57.7	7.5	Search (2048X32)	0.596					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	55.6	13.1	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	14.2	4.4	Inc. seg. avg.	0.993					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	10.0	7.7	Inc. frq. avg.	0.659					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
									nlags: 256	t_cohere infinite

l: az 64.0 el 79.5 pa -110.3 o: az 74.9 el 70.8 pa -89.6 u,v (fr/asec) 1379.106 -525.514 simultaneous interpolator

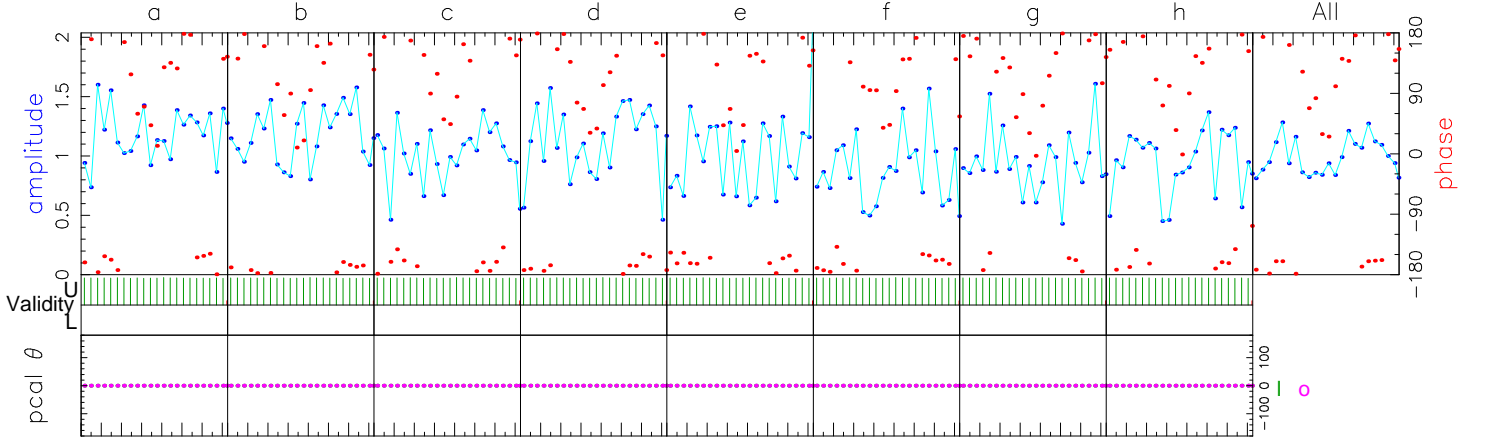
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/lo..18UHQS Output file: /Exps/c201b/v1/1234/No0057/lo.W.106.18UHQS

Mk4/DiFX fourfit 3.19 rev 2512

3C345.18UHQS, No0057, lo
VLBA_LA - VLBA_OV, fgroup W, pol RR



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.53454820932E+02				7.53458311276E+02				Resid mbdelay (usec)	-3.49034E-03 +/- 2.9E-05
Sband delay (usec)	7.53454754026E+02				-2.3796095E+01				Resid sbdelay (usec)	-3.55725E-03 +/- 2.3E-04
Phase delay (usec)	7.53458316567E+02				-3.5200000E-07				Resid phdelay (usec)	5.29184E-06 +/- 9.8E-08
Delay rate (us/s)	-1.86798401779E-01				-1.86798407130E-01				Resid rate (us/s)	5.35103E-09 +/- 4.0E-10
Total phase (deg)		140.1			-5.60236238609E-06				Resid phase (deg)	164.1 +/- 3.0

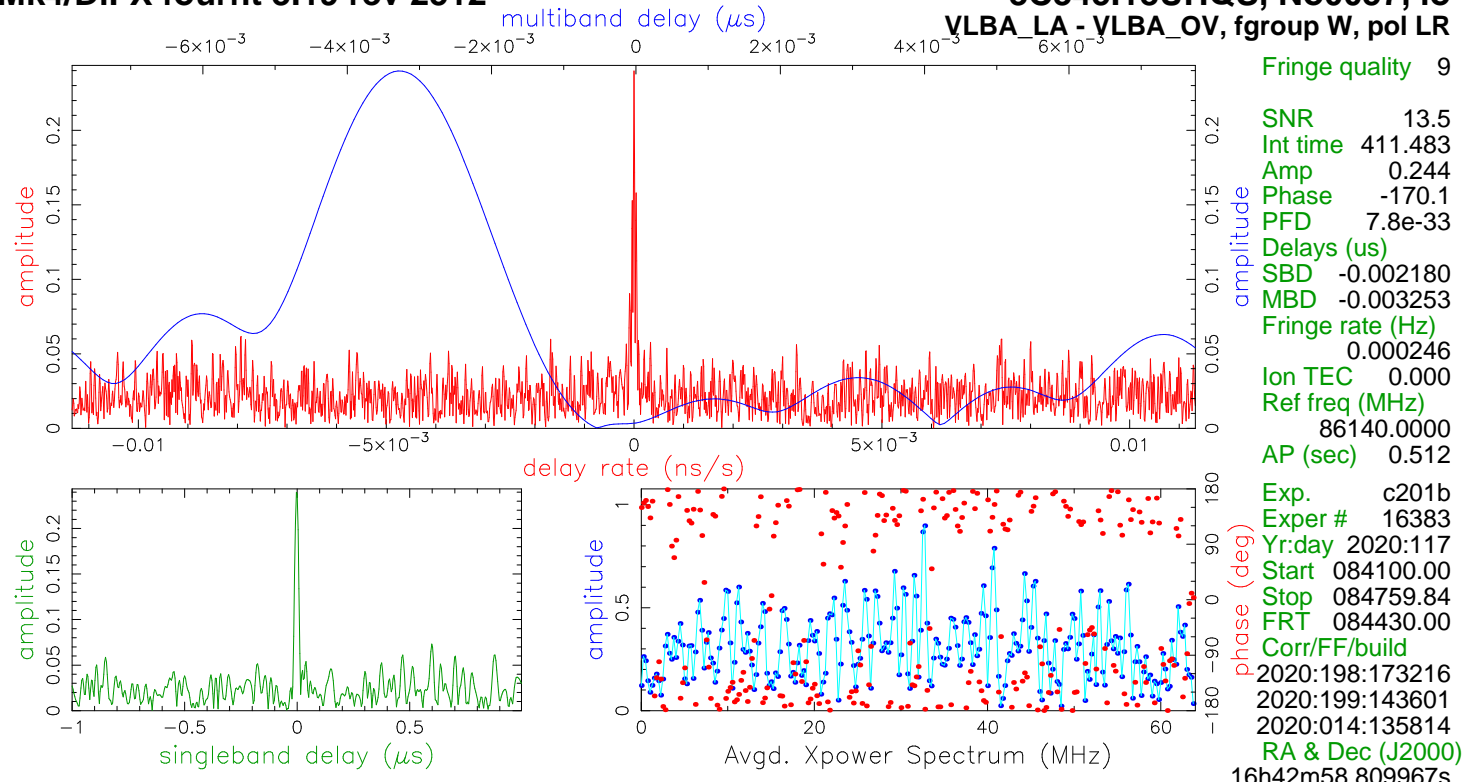
	RMS	Theor.	Amplitude	0.679 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	56.1	7.3	Search (2048X32)	0.623	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	52.3	12.7	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	6.1	4.3	Inc. seg. avg.	0.996	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	10.4	7.5	Inc. frq. avg.	0.680	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
					nlags: 256	t_cohere infinite

l: az 64.0 el 79.5 pa -110.3 o: az 74.9 el 70.8 pa -89.6 u,v (fr/asec) 1379.106 -525.514 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/lo..18UHQS Output file: /Exps/c201b/v1/1234/No0057/lo.W.125.18UHQS

Mk4/DiFX fourfit 3.19 rev 2512

3C345.18UHQS, No0057, lo
VLBA_LA - VLBA_OV, fgroup W, pol LR



Fringe quality 9

SNR 13.5

Int time 411.483

Amp 0.244

Phase -170.1

PFD 7.8e-33

Delays (us)

SBD -0.002180

MBD -0.003253

Fringe rate (Hz)

0.000246

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c201b

Exper # 16383

Yr:day 2020:117

Start 084100.00

Stop 084759.84

FRT 084430.00

Corr/FF/build

2020:198:173216

2020:199:143601

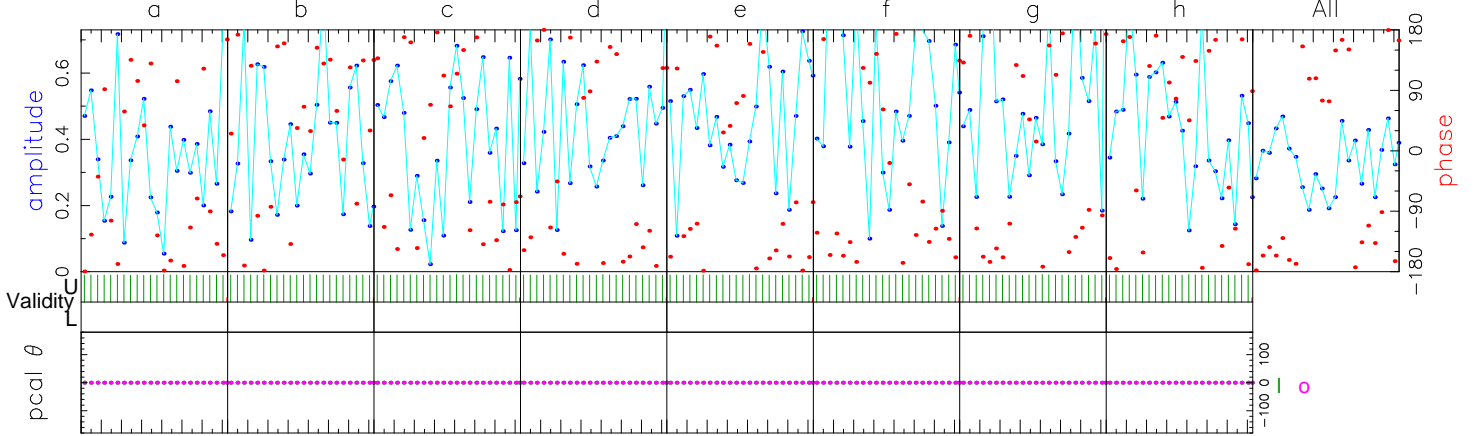
2020:014:135814

RA & Dec (J2000)

16h42m58.809967s

+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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
	-162.5	157.2	-167.7	-168.7	-165.3	-147.5	-169.3	161.4	Phase	-170.1
	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.3	Ampl.	0.2
	257.3	256.7	410.5	256.0	256.7	255.9	256.1	256.3	Sbd box	256.4
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.53455058276E+02		Apriori delay (usec)		7.53458311276E+02		Resid mbdelay (usec)		-3.25300E-03	+/- 8.0E-05
Sband delay (usec)	7.53456131026E+02		Apriori clock (usec)		-2.3796095E+01		Resid sbdelay (usec)		-2.18025E-03	+/- 6.4E-04
Phase delay (usec)	7.53458305791E+02		Apriori clockrate (us/s)		-3.5200000E-07		Resid phdelay (usec)		-5.48513E-06	+/- 2.7E-07
Delay rate (us/s)	-1.86798404276E-01		Apriori rate (us/s)		-1.86798407130E-01		Resid rate (us/s)		2.85336E-09	+/- 1.1E-09
Total phase (deg)	165.9		Apriori accel (us/s/s)		-5.60236238609E-06		Resid phase (deg)		-170.1	+/- 8.5

ph/seg (deg) 52.2 20.3 Search (2048X32) 0.231 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 50.7 35.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 20.3 12.0 Inc. seg. avg. 0.312 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

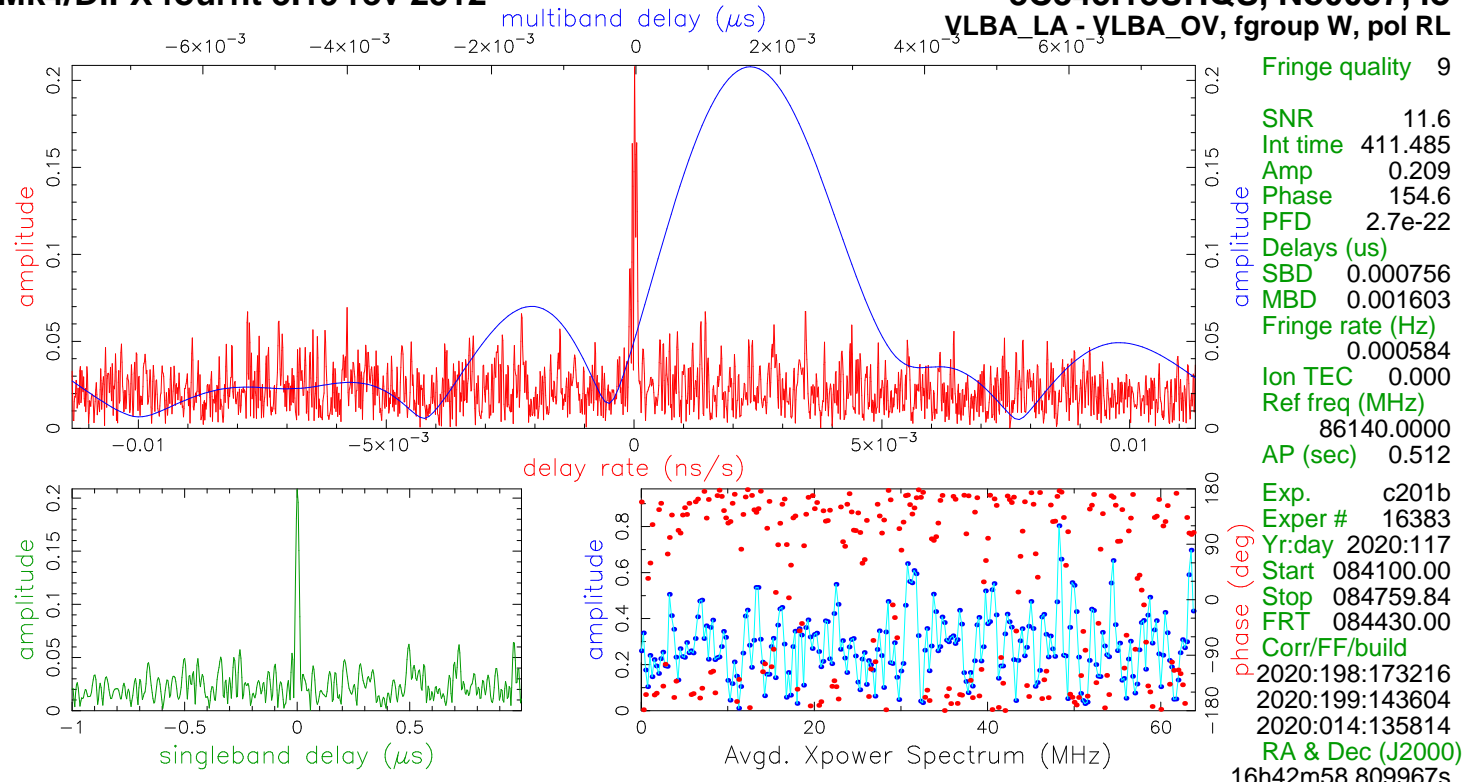
amp/frq (%) 28.4 20.9 Inc. frq. avg. 0.245 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

l: az 64.0 el 79.5 pa -110.3 o: az 74.9 el 70.8 pa -89.6 u,v (fr/asec) 1379.106 -525.514 simultaneous interpolator

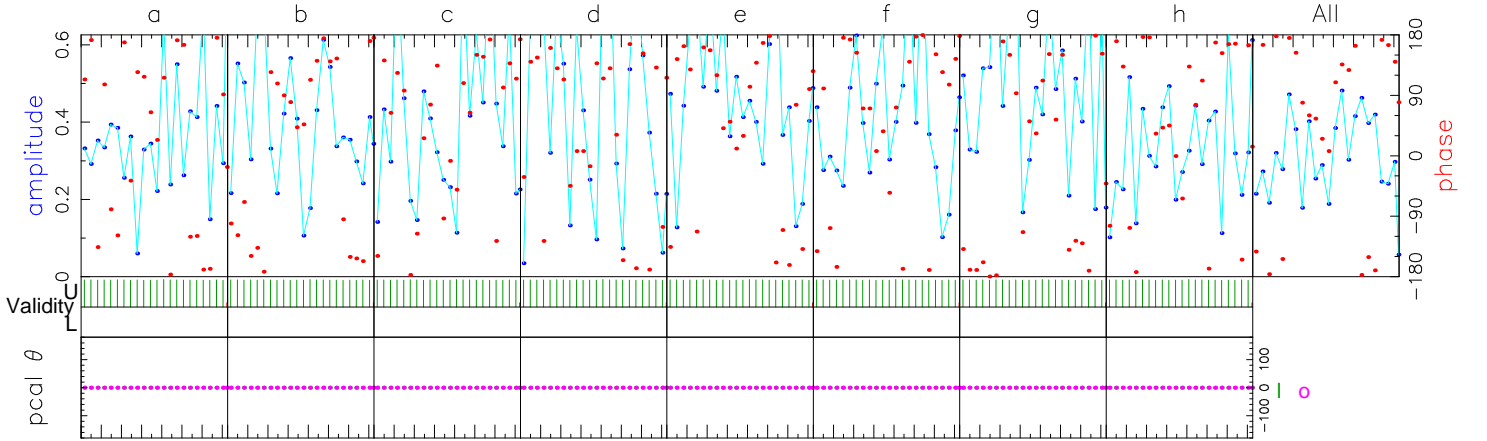
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/lo..18UHQS Output file: /Exps/c201b/v1/1234/No0057/lo.W.143.18UHQS

Mk4/DiFX fourfit 3.19 rev 2512

3C345.18UHQS, No0057, lo
VLBA_LA - VLBA_OV, fgroup W, pol RL



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



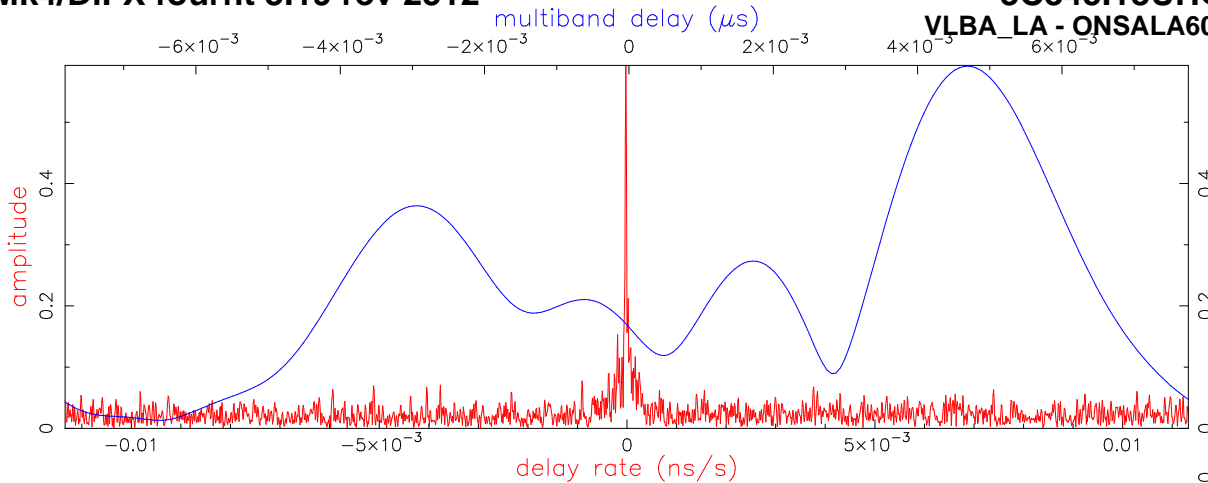
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	173.5	176.6	127.2	141.7	154.4	151.1	165.9	152.1	Phase	154.6
	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.1	Ampl.	0.2
	146.1	257.7	257.6	256.9	258.2	257.3	257.0	255.4	Sbd box	257.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	7.53459914129E+02	Apriori delay (usec)	7.53458311276E+02	Resid mbdelay (usec)	1.60285E-03	+/-	9.4E-05
Sband delay (usec)	7.53459067776E+02	Apriori clock (usec)	-2.3796095E+01	Resid sbdelay (usec)	7.56500E-04	+/-	7.4E-04
Phase delay (usec)	7.53458316261E+02	Apriori clockrate (us/s)	-3.5200000E-07	Resid phdelay (usec)	4.98515E-06	+/-	3.2E-07
Delay rate (us/s)	-1.86798400350E-01	Apriori rate (us/s)	-1.86798407130E-01	Resid rate (us/s)	6.78019E-09	+/-	1.3E-09
Total phase (deg)	130.6	Apriori accel (us/s/s)	-5.60236238609E-06	Resid phase (deg)	154.6	+/-	9.9

ph/seg (deg)	60.6	RMS	23.7	Theor.	Amplitude	0.209 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	70.9	60.6	23.7	Search (2048X32)	0.197	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	17.8	70.9	41.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	24.9	17.8	14.0	Inc. seg. avg.	0.295	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011		
		24.9	24.4	Inc. frq. avg.	0.210	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

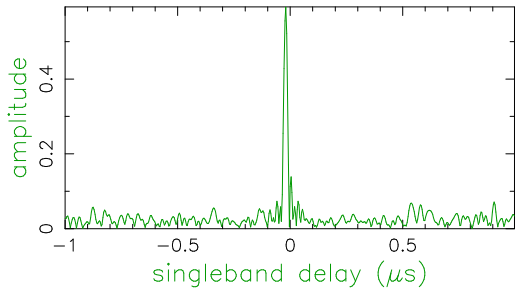
l: az 64.0 el 79.5 pa -110.3 o: az 74.9 el 70.8 pa -89.6 u,v (fr/asec) 1379.106 -525.514 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/lo..18UHQS Output file: /Exps/c201b/v1/1234/No0057/lo.W.158.18UHQS

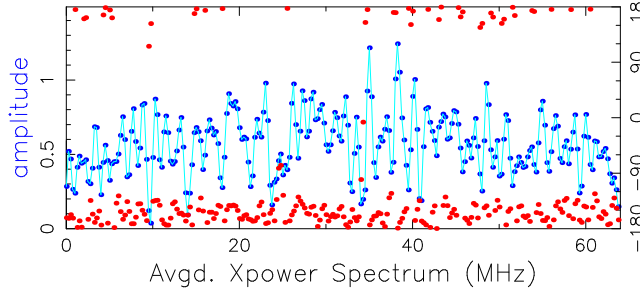


Fringe quality 5

SNR 33.1
Int time 415.965
Amp 0.593
Phase -85.7
PFD 0.0e+00
Delays (us)
SBD -0.020149
MBD 0.004681
Fringe rate (Hz)
-0.002238
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

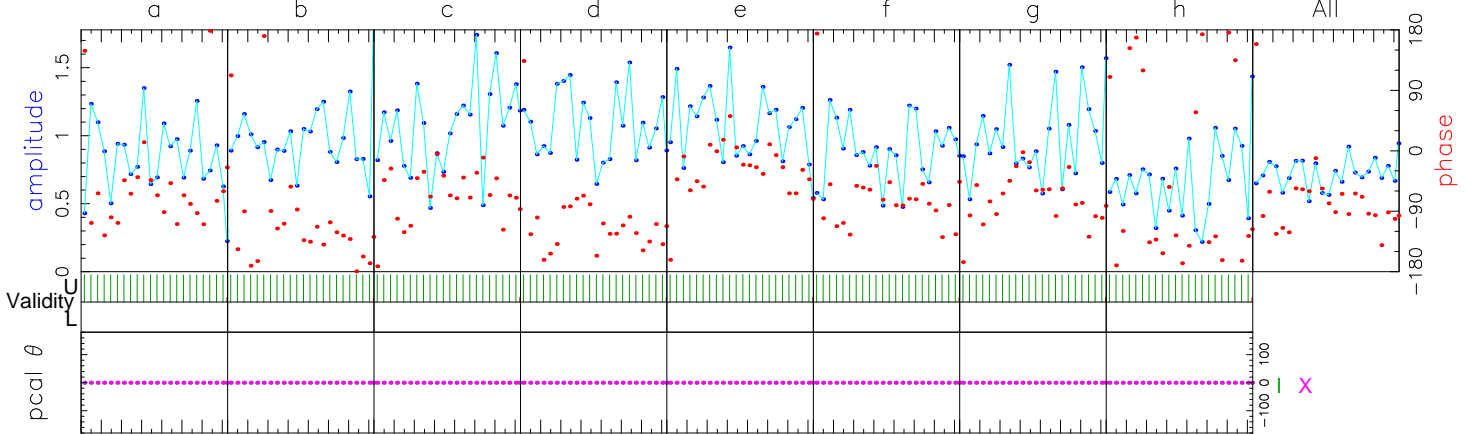


delay rate (ns/s)



Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143552
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

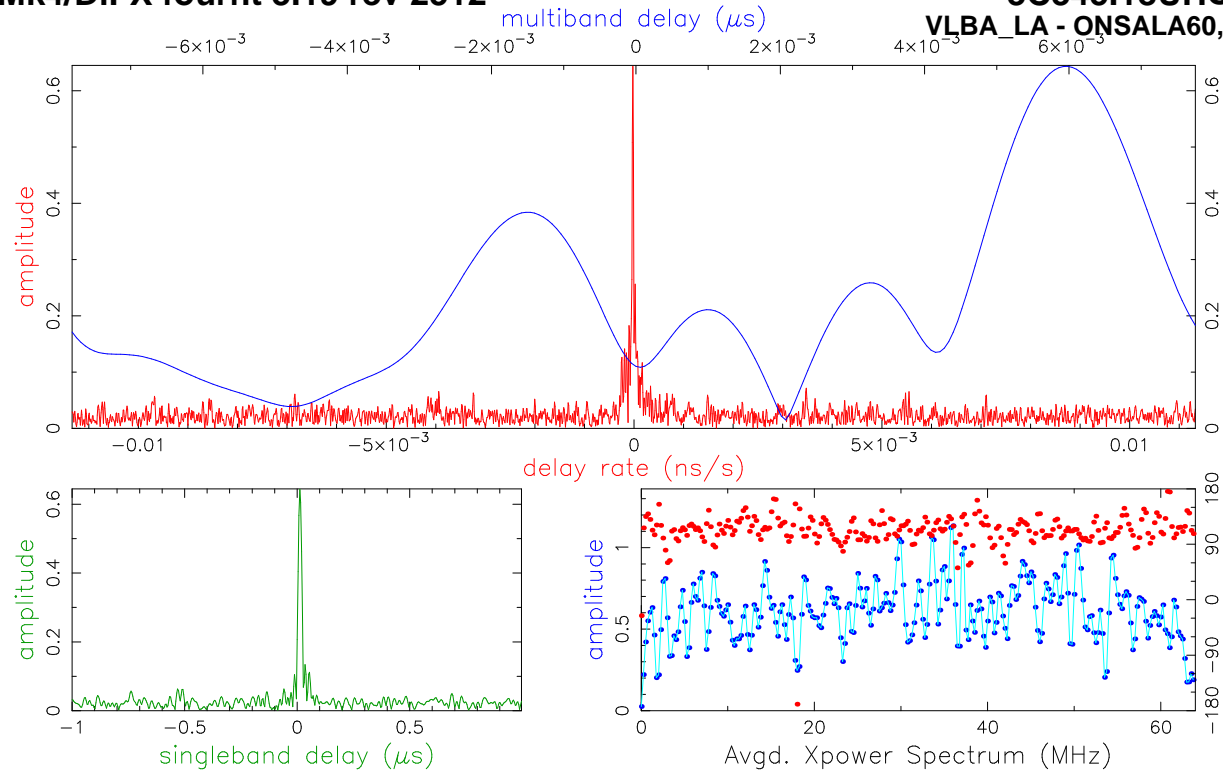


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-78.7	-132.6	-59.8	-117.2	-23.7	-81.1	-72.6	-164.4	Phase	-85.7
	0.7	0.8	0.9	0.9	0.9	0.7	0.8	0.5	Ampl.	0.8
	251.3	251.3	251.9	251.6	251.5	251.2	251.0	250.0	Sbd box	251.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.20601870772E+04	Apriori delay (usec)	1.20602136466E+04	Resid mbdelay (usec)	4.68051E-03	+/-	3.3E-05
Sband delay (usec)	1.20601934971E+04	Apriori clock (usec)	-4.4471699E+01	Resid sbdelay (usec)	-2.01495E-02	+/-	2.6E-04
Phase delay (usec)	1.20602136439E+04	Apriori clockrate (us/s)	-6.7900004E-07	Resid phdelay (usec)	-2.76336E-06	+/-	1.1E-07
Delay rate (us/s)	8.04779893111E-01	Apriori rate (us/s)	8.04779919098E-01	Resid rate (us/s)	-2.59864E-08	+/-	4.6E-10
Total phase (deg)	102.3	Apriori accel (us/s/s)	-8.29830030606E-05	Resid phase (deg)	-85.7	+/-	3.5

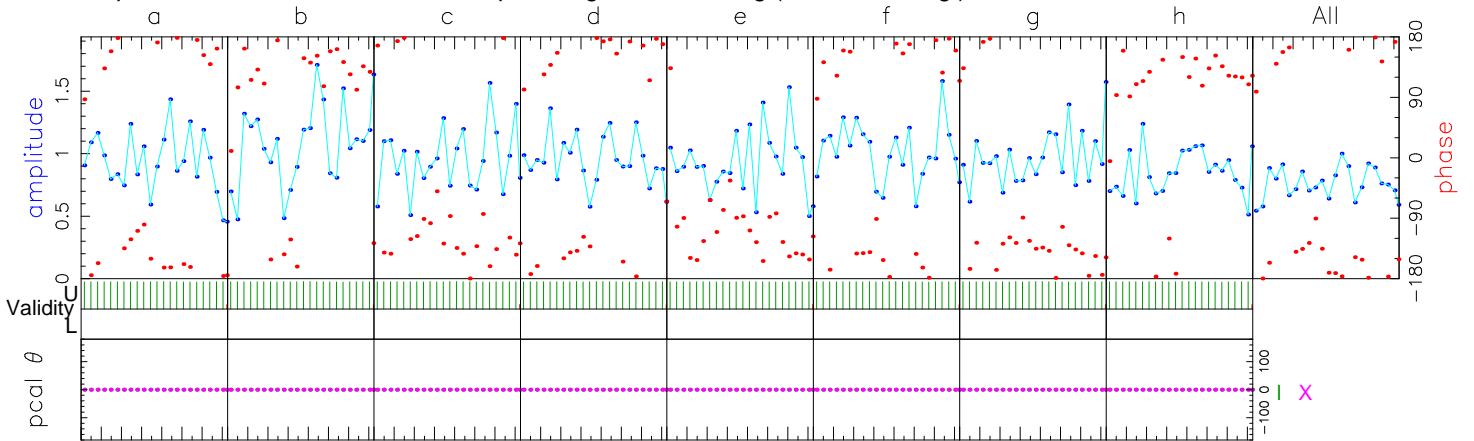
ph/seg (deg)	RMS 37.6	Theor. 8.3	Amplitude Search (2048X32)	0.593 +/- 0.018	0.567	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	37.6	8.3	Interp.	0.000	0.567	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	26.9	14.5	Inc. seg. avg.	0.710	0.710	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	48.5	4.9	Inc. frq. avg.	0.754	0.754	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

I: az 64.0 el 79.5 pa -110.3 X: az 305.2 el 25.2 pa 32.9 u,v (fr/asec) -6178.037 -7090.215 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/IX..18UHQS Output file: /Exps/c201b/v1/1234/No0057/IX.W.107.18UHQS



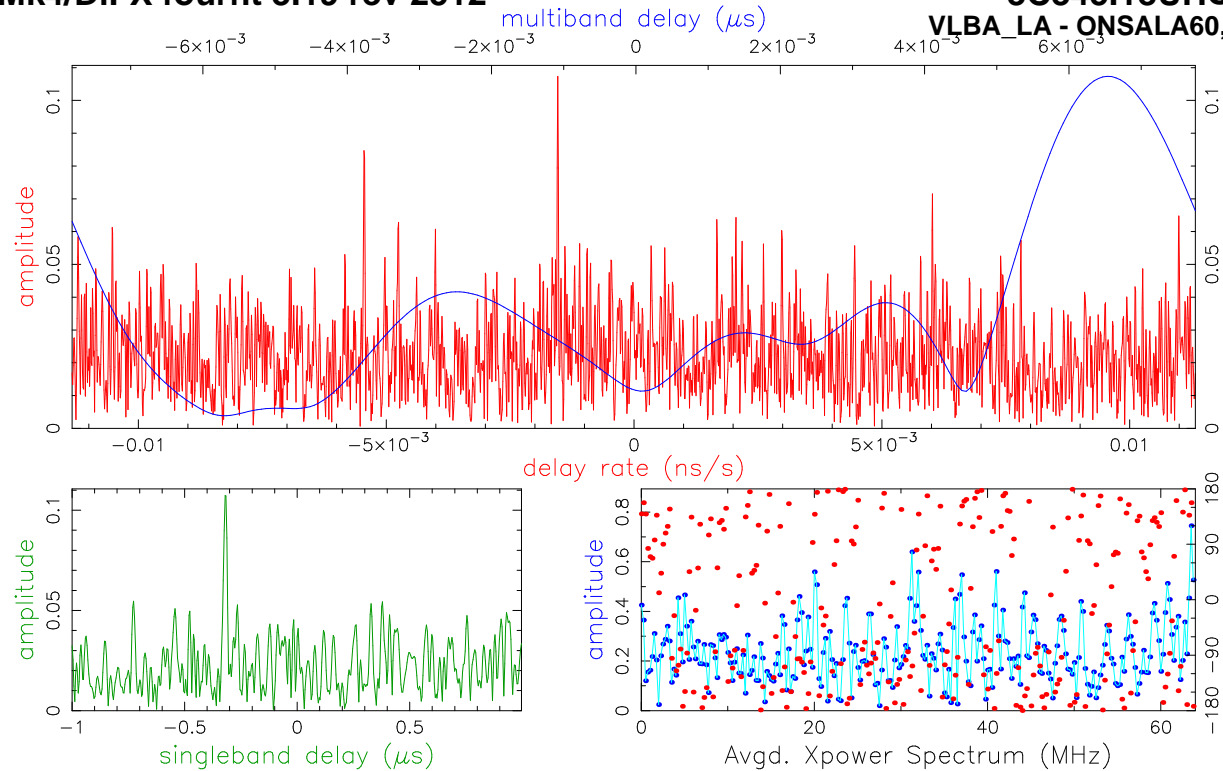
Fringe quality 5
SNR 36.0
Int time 415.965
Amp 0.645
Phase -172.4
PFD 0.0e+00
Delays (us)
SBD 0.012371
MBD 0.005983
Fringe rate (Hz)
-0.002193
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143557
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



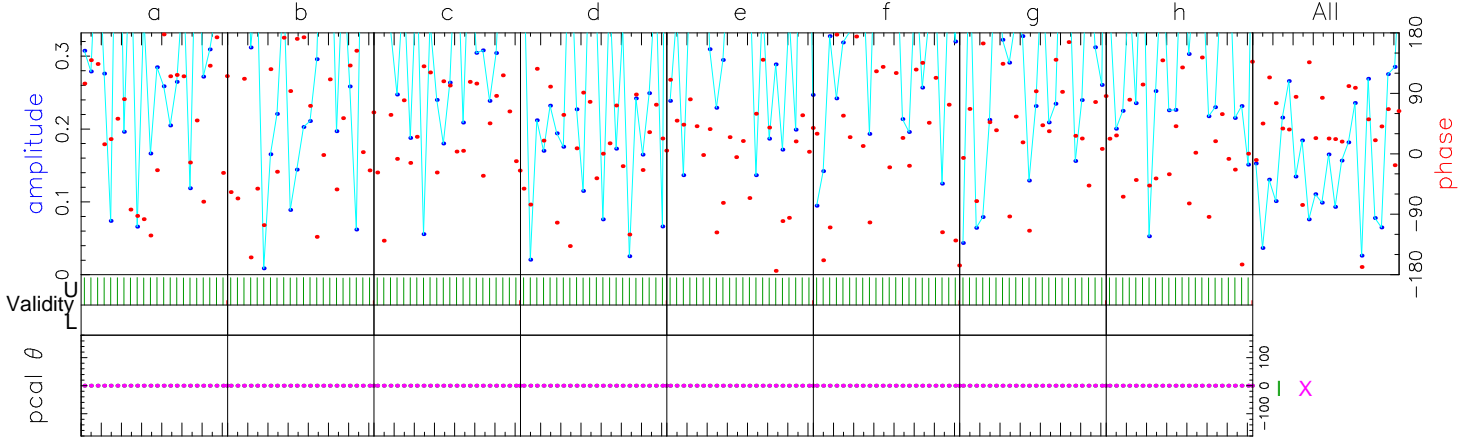
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-172.3	143.8	-134.8	177.8	-118.2	174.6	-146.2	131.4	Phase	-172.4
	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.7	Ampl.	0.8
	259.5	260.1	260.3	259.3	259.6	259.8	259.8	258.7	Sbd box	260.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.20602196292E+04		Apriori delay (usec)		1.20602136466E+04		Resid mbdelay (usec)		5.98257E-03	+/- 3.0E-05
Sband delay (usec)	1.20602260174E+04		Apriori clock (usec)		-4.4471699E+01		Resid sbdelay (usec)		1.23708E-02	+/- 2.4E-04
Phase delay (usec)	1.20602136411E+04		Apriori clockrate (us/s)		-6.7900004E-07		Resid phdelay (usec)		-5.56037E-06	+/- 1.0E-07
Delay rate (us/s)	8.04779893636E-01		Apriori rate (us/s)		8.04779919098E-01		Resid rate (us/s)		-2.54613E-08	+/- 4.2E-10
Total phase (deg)	15.6		Apriori accel (us/s/s)		-8.29830030606E-05		Resid phase (deg)		-172.4	+/- 3.2

ph/seg (deg) 36.0 7.6 Search (2048X32) 0.626 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 26.6 13.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 41.6 4.5 Inc. seg. avg. 0.761 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 23.1 7.9 Inc. frq. avg. 0.782 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
I: az 64.0 el 79.5 pa -110.3 X: az 305.2 el 25.2 pa 32.9 u,v (fr/asec) -6178.037 -7090.215 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/IX..18UHQS Output file: /Exps/c201b/v1/1234/No0057/IX.W.129.18UHQS



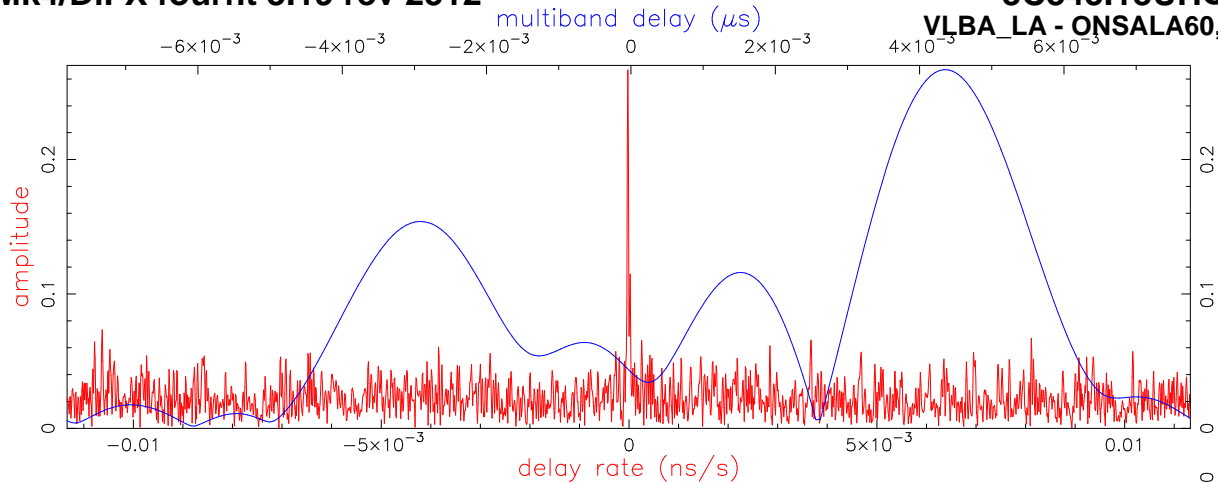
Fringe quality 0
SNR 6.1
Int time 415.965
Amp 0.111
Phase 46.1
PFD 2.1e-01
Delays (us)
SBD -0.318371
MBD 0.006562
Fringe rate (Hz)
-0.133126
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143602
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



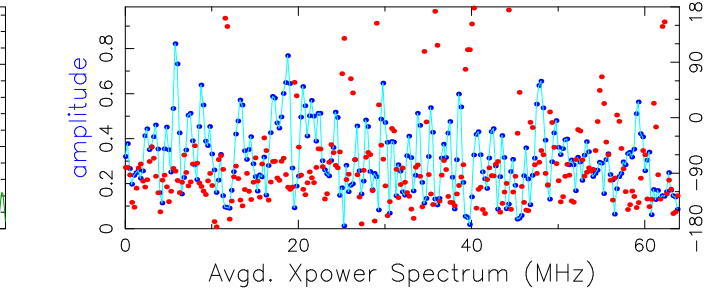
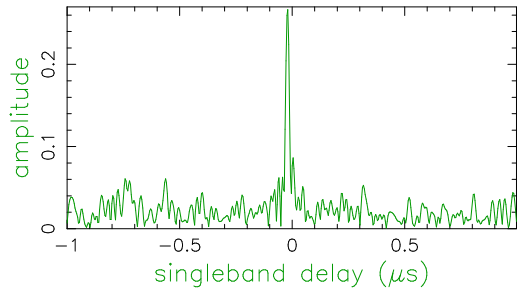
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	89.7	24.9	46.0	24.4	23.7	96.7	56.1	36.8	Phase	46.1
	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	Ampl.	0.1
	2.7	487.3	176.2	426.8	175.1	301.5	16.3	411.4	Sbd box	175.5
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.20598920833E+04		Apriori delay (usec)		1.20602136466E+04		Resid mbdelay (usec)		6.56162E-03	+/- 1.8E-04
Sband delay (usec)	1.20598952759E+04		Apriori clock (usec)		-4.4471699E+01		Resid sbdelay (usec)		-3.18371E-01	+/- 1.4E-03
Phase delay (usec)	1.20602136481E+04		Apriori clockrate (us/s)		-6.7900004E-07		Resid phdelay (usec)		1.48730E-06	+/- 6.0E-07
Delay rate (us/s)	8.04778373641E-01		Apriori rate (us/s)		8.04779919098E-01		Resid rate (us/s)		-1.54546E-06	+/- 2.5E-09
Total phase (deg)	234.1		Apriori accel (us/s/s)		-8.29830030606E-05		Resid phase (deg)		46.1	+/- 18.7

ph/seg (deg) 55.7 44.9 Search (2048X32) 0.101 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 82.7 78.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 31.8 26.5 Inc. seg. avg. 0.118 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.8 46.2 Inc. frq. avg. 0.107 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 I: az 64.0 el 79.5 pa -110.3 X: az 305.2 el 25.2 pa 32.9 u,v (fr/asec) -6178.037 -7090.215 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/IX..18UHQS Output file: /Exps/c201b/v1/1234/No0057/IX.W.148.18UHQS



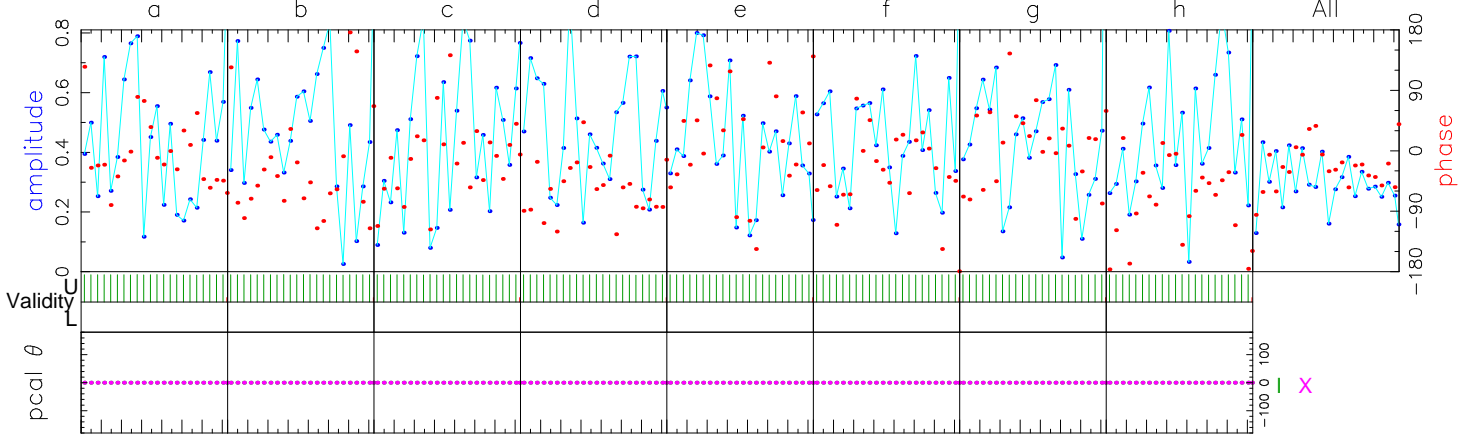
Fringe quality 8

SNR 15.1
Int time 415.965
Amp 0.270
Phase -26.0
PFD 1.8e-42
Delays (us)
SBD -0.020933
MBD 0.004303
Fringe rate (Hz)
-0.002241
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084100.00
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143605
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

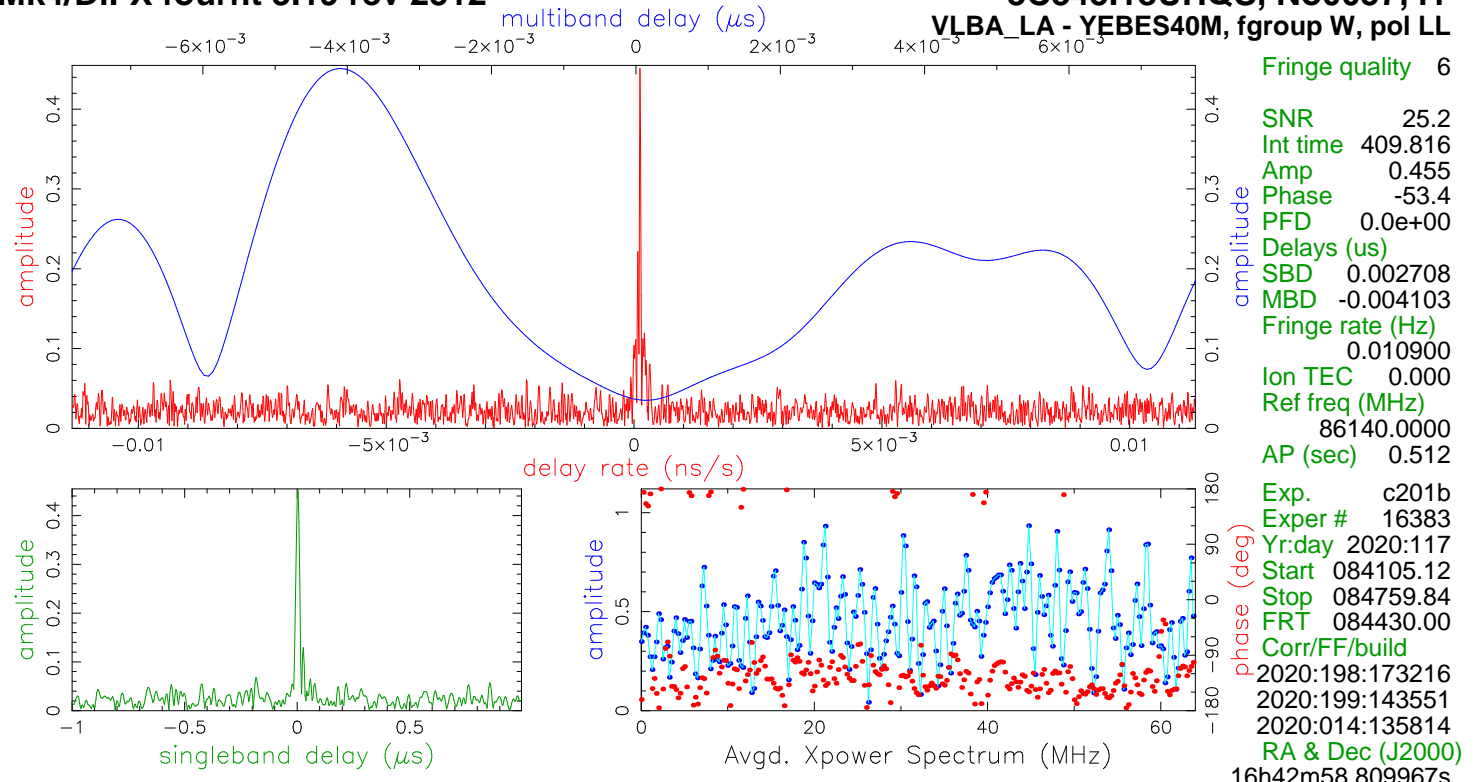


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-11.8	-66.7	-7.0	-60.8	28.6	-19.2	3.3	-51.9	Phase	-26.0
	0.3	0.3	0.3	0.4	0.2	0.3	0.3	0.3	Ampl.	0.3
	251.5	251.3	251.9	251.5	251.2	250.9	251.9	250.6	Sbd box	251.6
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

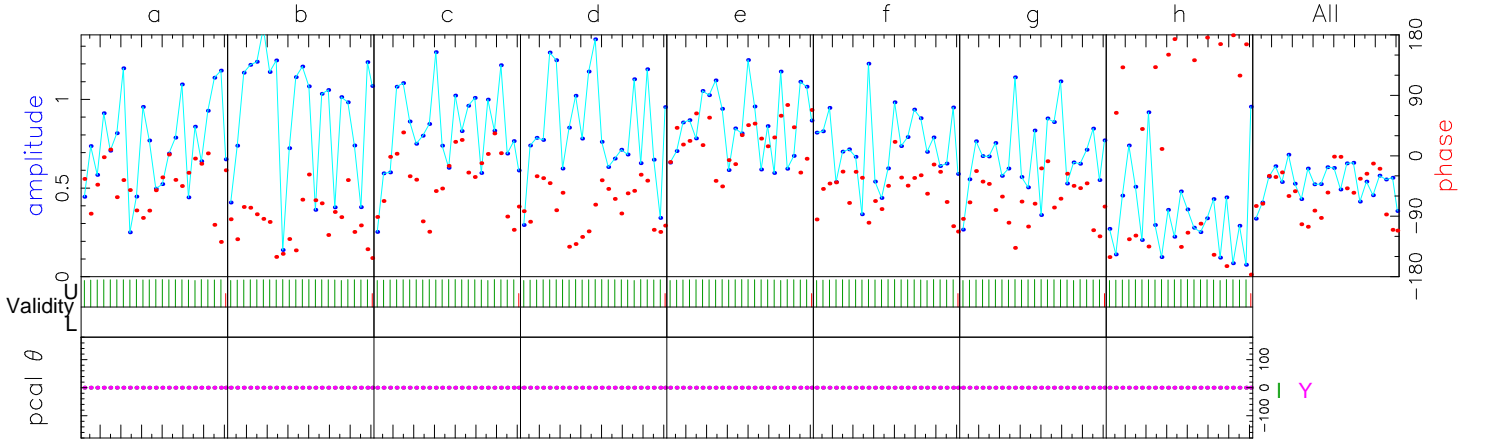
Group delay (usec)(sbd)	1.20601866996E+04	Apriori delay (usec)	1.20602136466E+04	Resid mbdelay (usec)	4.30292E-03	+/-	7.2E-05
Sband delay (usec)	1.20601927136E+04	Apriori clock (usec)	-4.4471699E+01	Resid sbdelay (usec)	-2.09330E-02	+/-	5.7E-04
Phase delay (usec)	1.20602136458E+04	Apriori clockrate (us/s)	-6.7900004E-07	Resid phdelay (usec)	-8.38360E-07	+/-	2.5E-07
Delay rate (us/s)	8.04779893082E-01	Apriori rate (us/s)	8.04779919098E-01	Resid rate (us/s)	-2.60161E-08	+/-	1.0E-09
Total phase (deg)	162.0	Apriori accel (us/s/s)	-8.29830030606E-05	Resid phase (deg)	-26.0	+/-	7.6

ph/seg (deg)	RMS 30.3	Theor. 18.2	Amplitude Search (2048X32)	0.270 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	32.1	31.8	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)	36.5	10.8	Inc. seg. avg.	0.287	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	22.0	18.8	Inc. frq. avg.	0.304	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

I: az 64.0 el 79.5 pa -110.3 X: az 305.2 el 25.2 pa 32.9 u,v (fr/asec) -6178.037 -7090.215 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/IX..18UHQS Output file: /Exps/c201b/v1/1234/No0057/IX.W.161.18UHQS

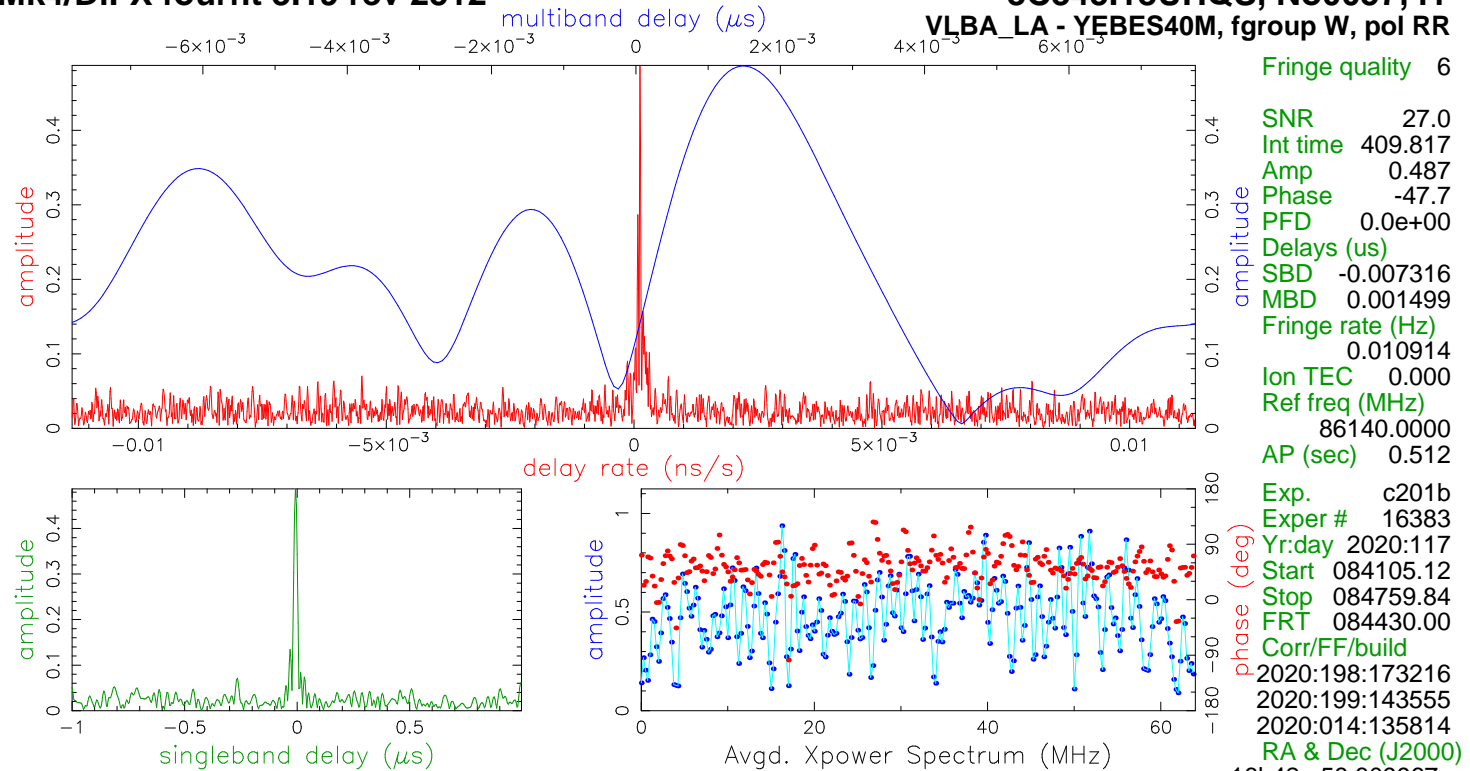


Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		1.25519770178E+04				1.25519811212E+04			Resid mbdelay (usec)	-4.10349E-03 +/- 4.3E-05
Sband delay (usec)		1.25519838287E+04				-1.5678743E+01			Resid sbdelay (usec)	2.70750E-03 +/- 3.4E-04
Phase delay (usec)		1.25519811195E+04				-3.7100000E-07			Resid phdelay (usec)	-1.72325E-06 +/- 1.5E-07
Delay rate (us/s)		1.09598522891E+00				1.09598510238E+00			Resid rate (us/s)	1.26535E-07 +/- 6.1E-10
Total phase (deg)			228.6			-7.15250365626E-05			Resid phase (deg)	-53.4 +/- 4.6

	RMS	Theor.	Amplitude	0.455 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	33.7	10.9	Search (2048X32)	0.424	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
amp/seg (%)	26.4	19.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
ph/frq (deg)	58.6	6.4	Inc. seg. avg.	0.527	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011		
amp/frq (%)	46.0	11.2	Inc. frq. avg.	0.595	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

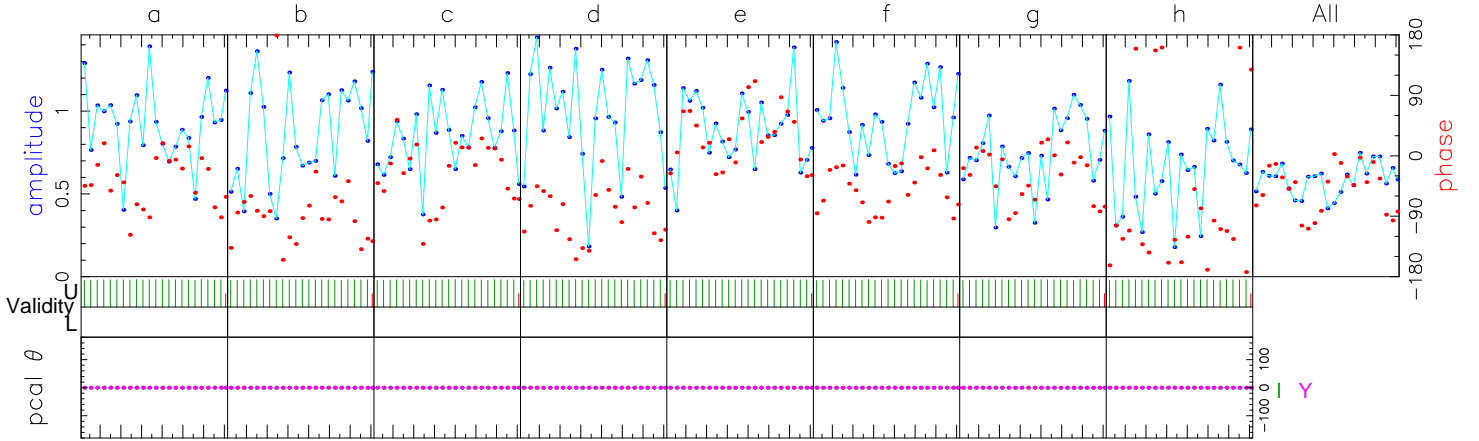


Fringe quality 6

SNR 27.0
Int time 409.817
Amp 0.487
Phase -47.7
PFD 0.0e+00
Delays (us)
SBD -0.007316
MBD 0.001499
Fringe rate (Hz) 0.010914
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084105.12
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143555
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



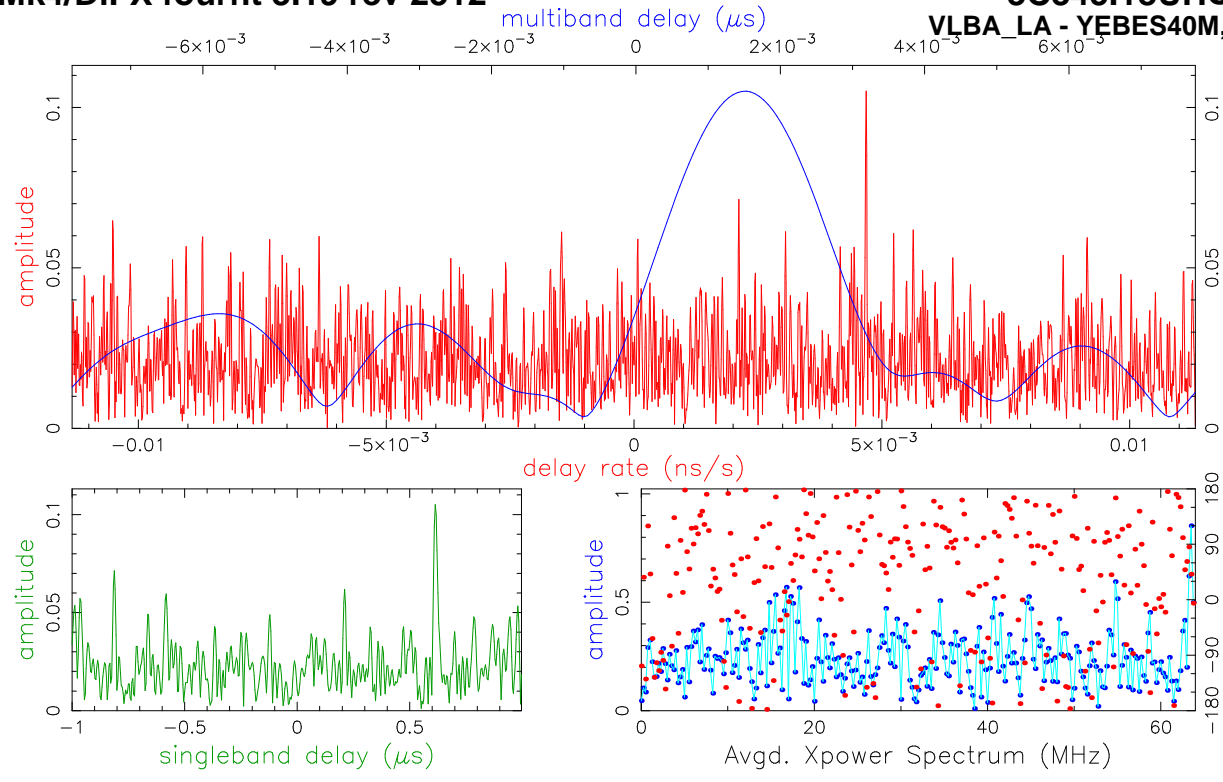
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-38.3	-93.7	-20.4	-75.8	33.5	-45.4	-21.2	-141.6	Phase	-47.7
	0.7	0.7	0.6	0.8	0.7	0.8	0.6	0.5	Ampl.	0.7
	255.0	254.8	255.1	254.5	254.5	254.3	253.9	252.5	Sbd box	255.1
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	1.25519669953E+04	Apriori delay (usec)	1.25519811212E+04	Resid mbdelay (usec)	1.49904E-03	+/-	4.0E-05
Sband delay (usec)	1.25519738052E+04	Apriori clock (usec)	-1.5678743E+01	Resid sbdelay (usec)	-7.31600E-03	+/-	3.2E-04
Phase delay (usec)	1.25519811197E+04	Apriori clockrate (us/s)	-3.7100000E-07	Resid phdelay (usec)	-1.53677E-06	+/-	1.4E-07
Delay rate (us/s)	1.09598522908E+00	Apriori rate (us/s)	1.09598510238E+00	Resid rate (us/s)	1.26703E-07	+/-	5.7E-10
Total phase (deg)	234.4	Apriori accel (us/s/s)	-7.15250365626E-05	Resid phase (deg)	-47.7	+/-	4.2

ph/seg (deg)	RMS 34.6	Theor. 10.2	Amplitude Search (2048X32)	0.487 +/- 0.018	0.458	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	27.8	17.8	Interp.	0.000	0.578	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	57.5	6.0	Inc. seg. avg.	0.578	0.680	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	44.5	10.5	Inc. frq. avg.	0.680		Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

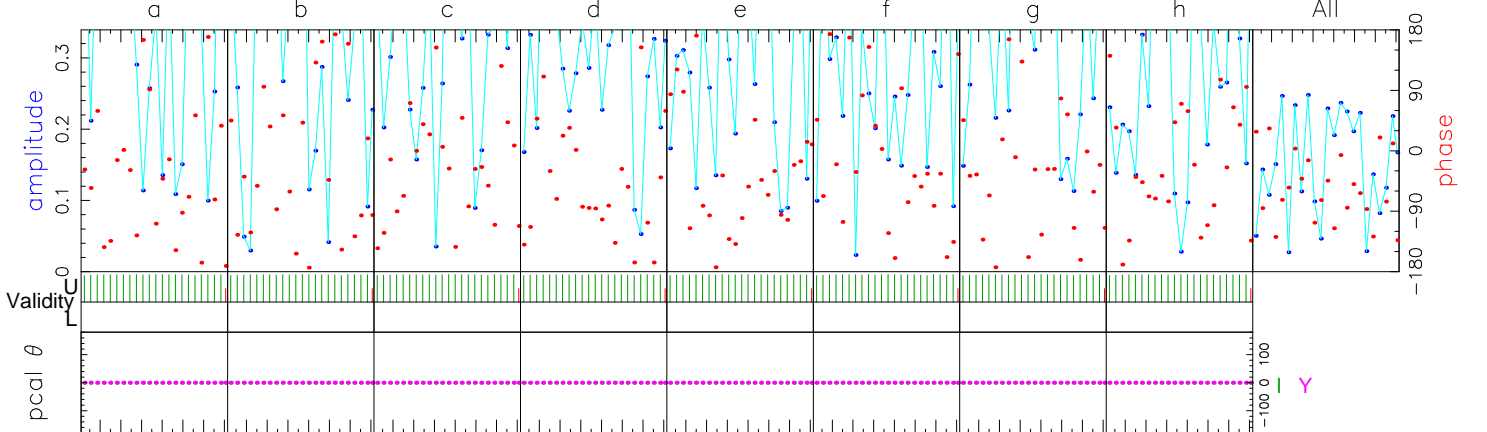
I: az 64.0 el 79.5 pa -110.3 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -8319.544 -4995.697 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/IY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/IY.W.121.18UHQS



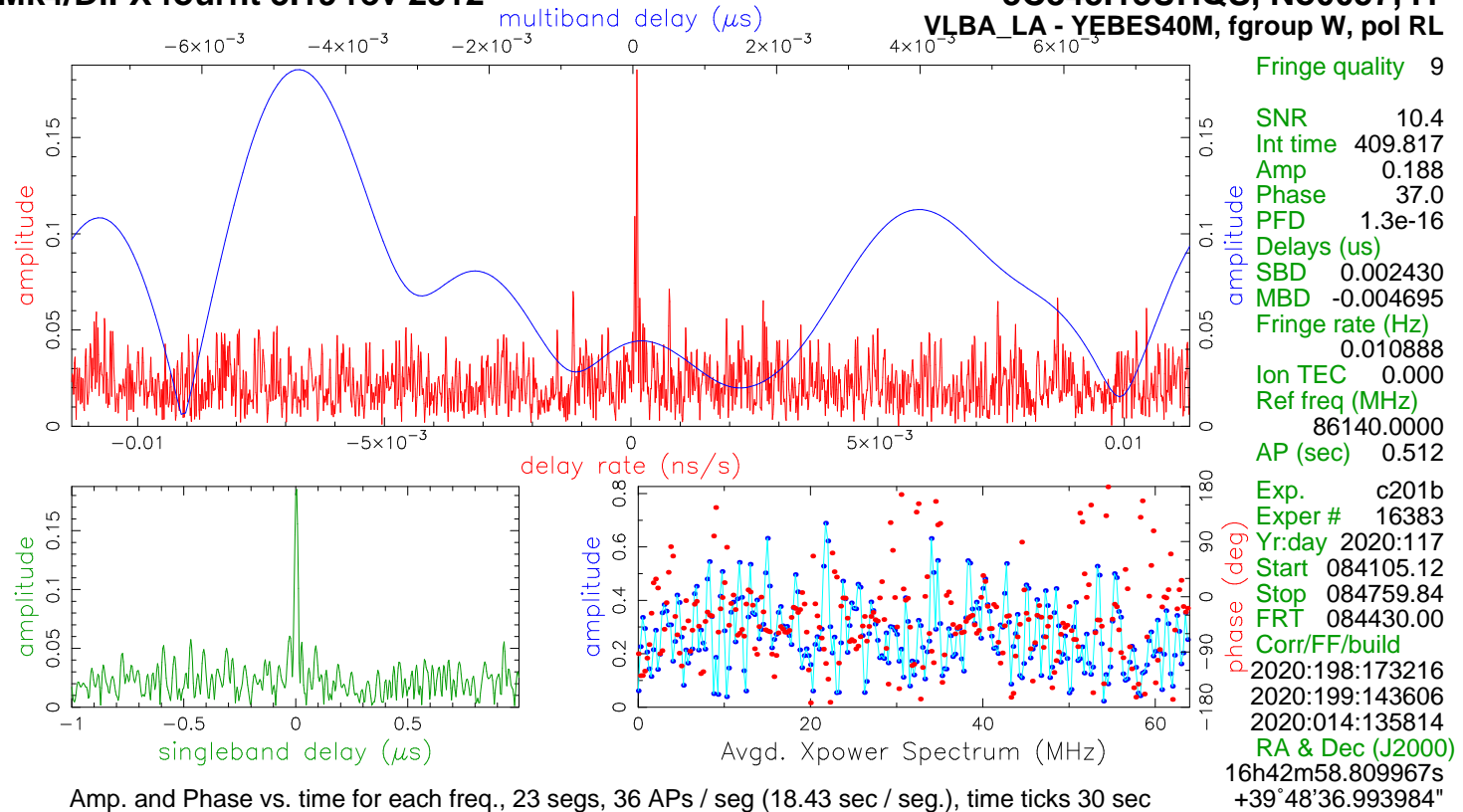
Fringe quality 0
SNR 5.8
Int time 409.816
Amp 0.113
Phase -52.6
PFD 7.5e-01
Delays (us)
SBD 0.613935
MBD 0.001524
Fringe rate (Hz)
0.404358
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Yr:day # 16383
2020:198:173216
2020:199:143559
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

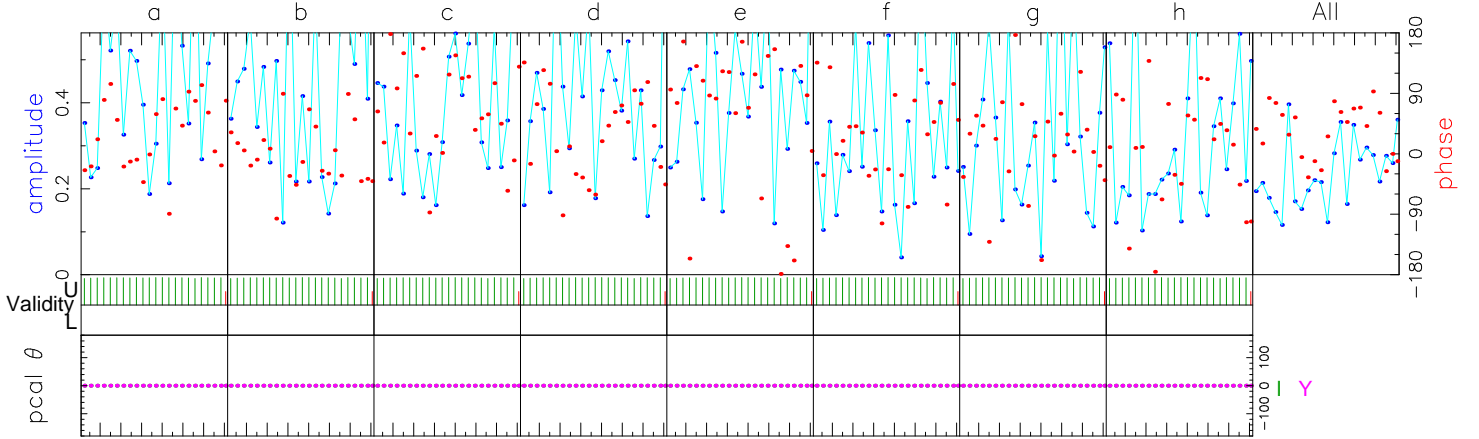


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		1.25525920203E+04				1.25519811212E+04			1.52401E-03	+/- 1.9E-04
Sband delay (usec)		1.25525950562E+04				-1.5678743E+01			6.13935E-01	+/- 1.5E-03
Phase delay (usec)		1.25519811195E+04				-3.7100000E-07			-1.69565E-06	+/- 6.3E-07
Delay rate (us/s)		1.09598979658E+00				1.09598510238E+00			4.69420E-06	+/- 2.6E-09
Total phase (deg)			229.5			-7.15250365626E-05			-52.6	+/- 19.7
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-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) 50.0 47.1 Search (2048X32) 0.113 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 83.1 82.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 27.7 27.8 Inc. seg. avg. 0.123 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 38.5 48.5 Inc. frq. avg. 0.105 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
I: az 64.0 el 79.5 pa -110.3 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -8319.544 -4995.697 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/IY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/IY.W.138.18UHQS

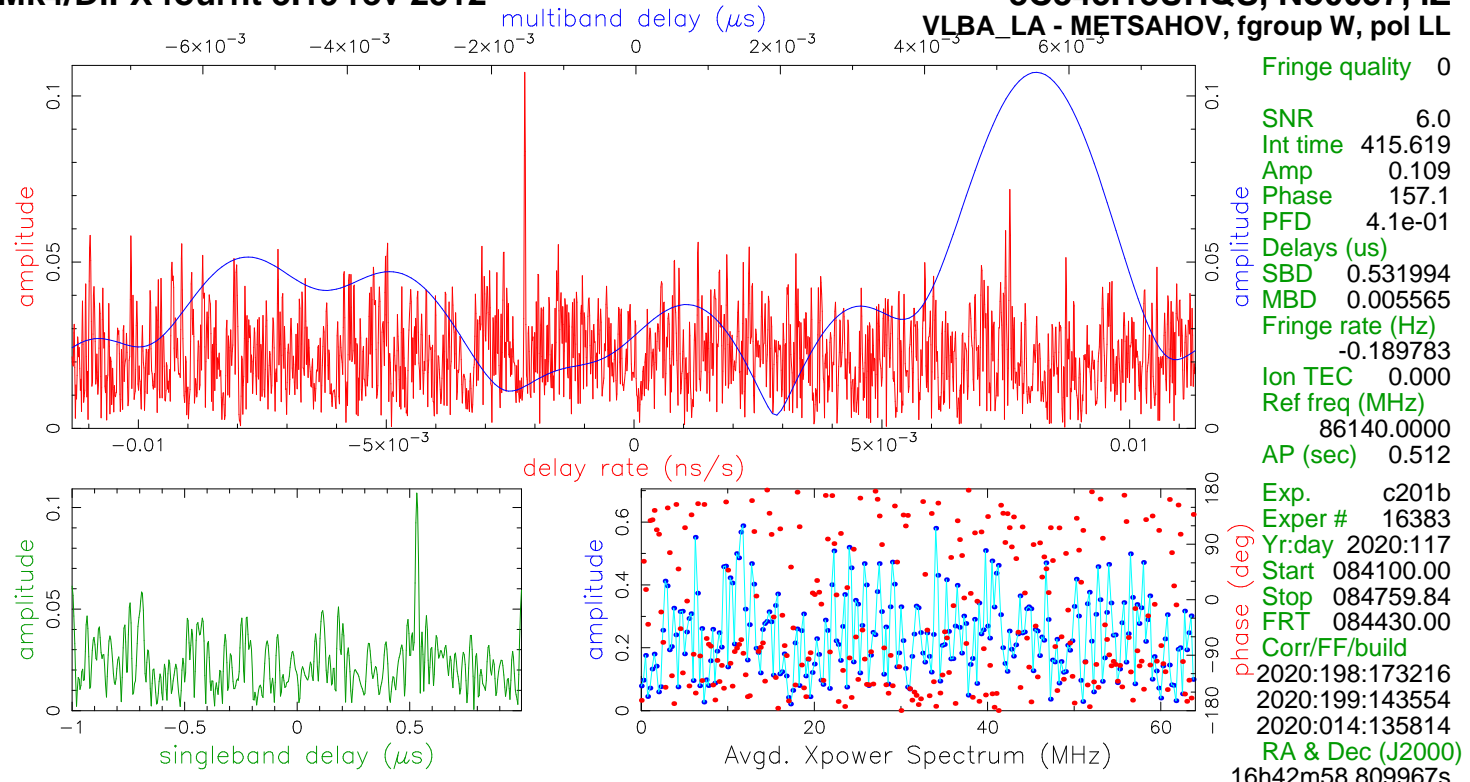


Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



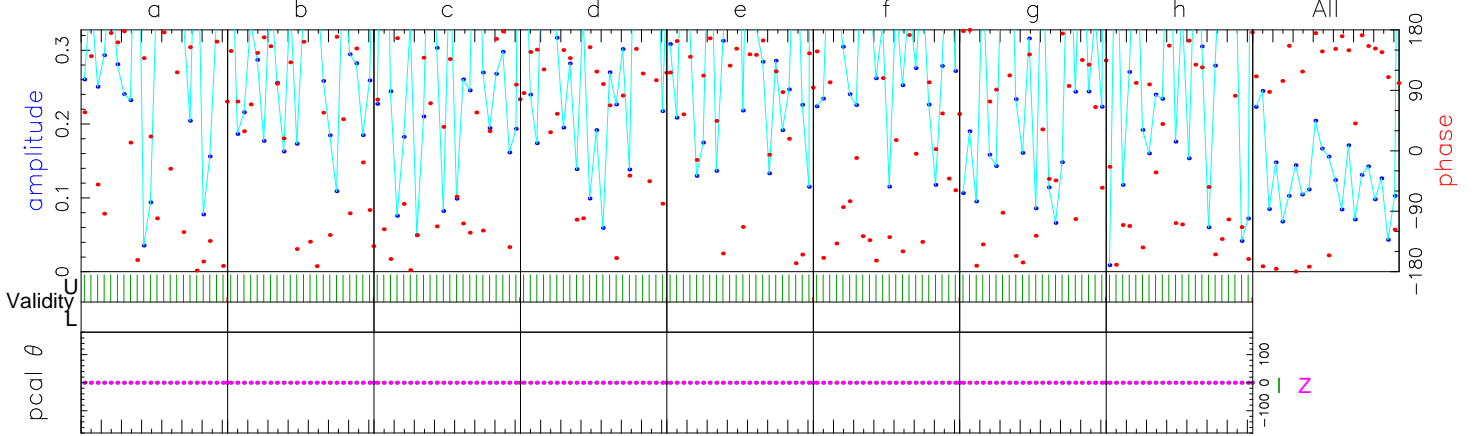
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
42.9	-6.5	72.5	18.3	124.4	42.0	20.5	20.9	20.9	Phase	37.0
0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	Ampl.	0.2
257.8	257.6	258.0	256.9	257.4	255.9	257.1	254.2	254.2	Sbd box	257.6
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
Y	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	1.25519764262E+04		Apriori delay (usec)		1.25519811212E+04		Resid mbdelay (usec)		-4.69508E-03	+/- 1.0E-04
Sband delay (usec)	1.25519835510E+04		Apriori clock (usec)		-1.5678743E+01		Resid sbdelay (usec)		2.42975E-03	+/- 8.3E-04
Phase delay (usec)	1.25519811224E+04		Apriori clockrate (us/s)		-3.7100000E-07		Resid phdelay (usec)		1.19384E-06	+/- 3.6E-07
Delay rate (us/s)	1.09598522877E+00		Apriori rate (us/s)		1.09598510238E+00		Resid rate (us/s)		1.26395E-07	+/- 1.5E-09
Total phase (deg)	319.1		Apriori accel (us/s/s)		-7.15250365626E-05		Resid phase (deg)		37.0	+/- 11.0

	RMS	Theor.	Amplitude	0.188 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	38.1	26.5	Search (2048X32)	0.174	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000	
amp/seg (%)	47.5	46.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	44.2	15.6	Inc. seg. avg.	0.211	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	42.9	27.2	Inc. frq. avg.	0.225	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00	



Fringe quality 0
 SNR 6.0
 Int time 415.619
 Amp 0.109
 Phase 157.1
 PFD 4.1e-01
 Delays (us)
 SBD 0.531994
 MBD 0.005565
 Fringe rate (Hz)
 -0.189783
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084100.00
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143554
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

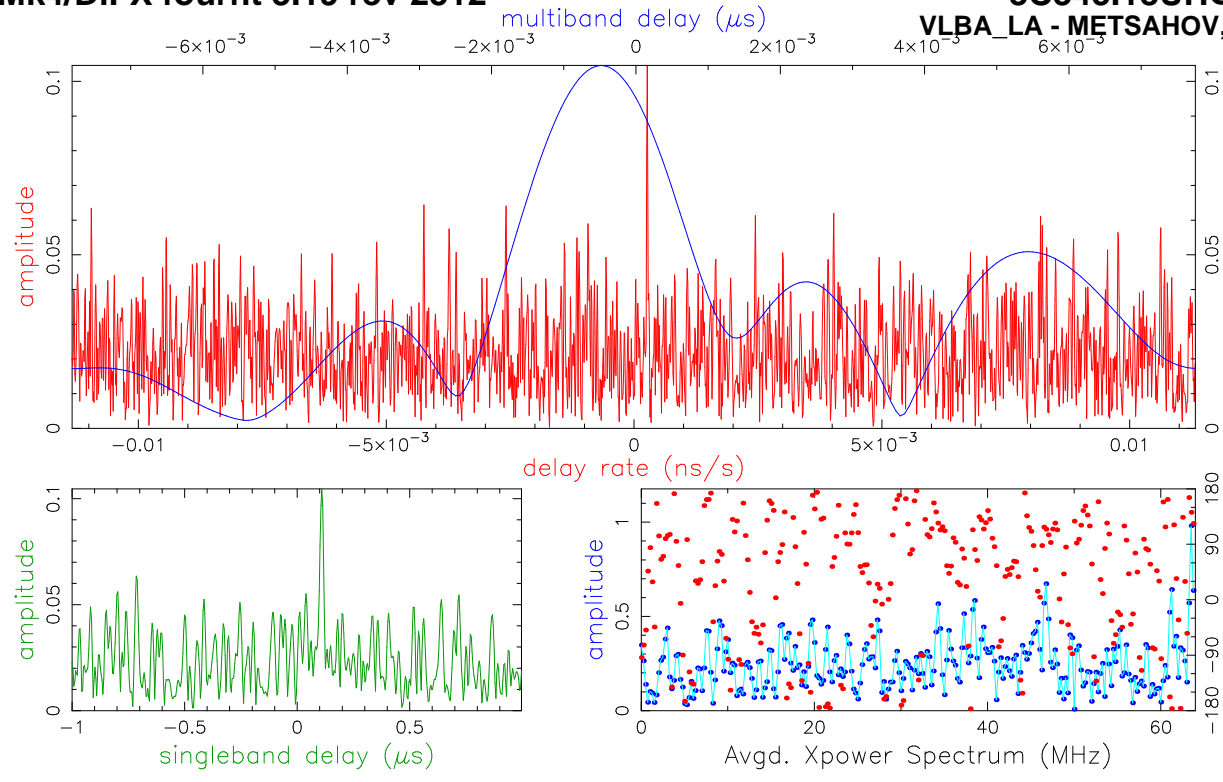


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-177.0	148.9	175.3	112.7	140.8	-127.4	141.9	179.8	Phase	157.1
	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	Ampl.	0.1
	296.6	228.6	193.6	391.9	393.9	411.7	425.1	510.5	Sbd box	393.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.31789532296E+04	Apriori delay (usec)	1.31784164148E+04	Resid mbdelay (usec)	5.56477E-03	+/-	1.8E-04
Sband delay (usec)	1.31789484091E+04	Apriori clock (usec)	-3.5882916E+00	Resid sbdelay (usec)	5.31994E-01	+/-	1.4E-03
Phase delay (usec)	1.31784164199E+04	Apriori clockrate (us/s)	-1.6700000E-07	Resid phdelay (usec)	5.06507E-06	+/-	6.2E-07
Delay rate (us/s)	7.05946861552E-01	Apriori rate (us/s)	7.05949064749E-01	Resid rate (us/s)	-2.20320E-06	+/-	2.5E-09
Total phase (deg)	146.7	Apriori accel (us/s/s)	-9.05590037385E-05	Resid phase (deg)	157.1	+/-	19.1

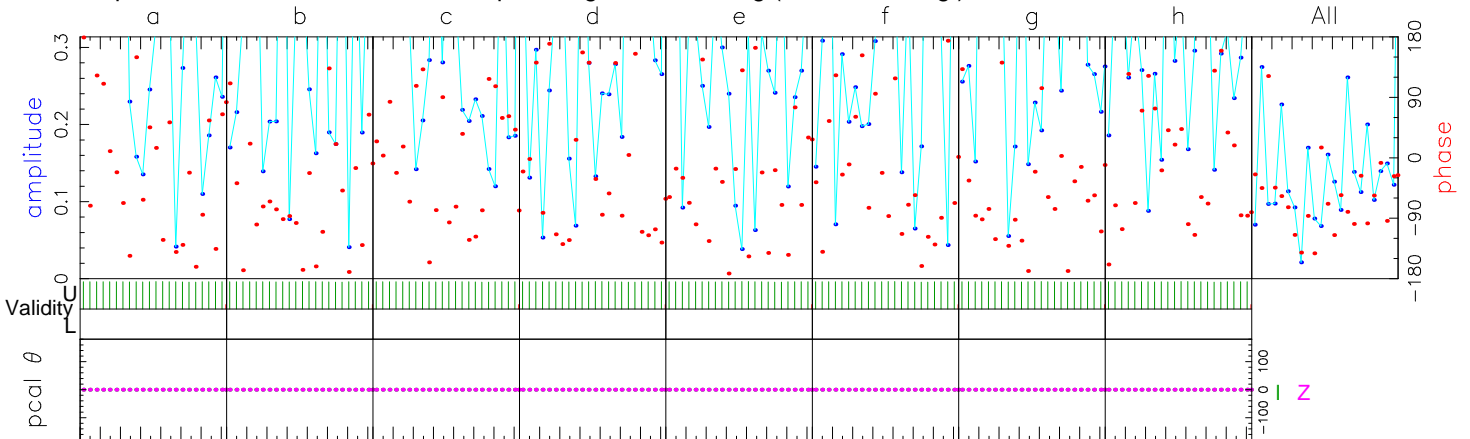
ph/seg (deg)	43.3	Theor.	45.8	Amplitude	0.109 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	66.9	Search (2048X32)	0.105	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	40.3	Inc. seg. avg.	0.103	Inc. frq. avg.	0.113	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	45.1	Inc. frq. avg.	0.113			Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011	
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite
							ion window (TEC)	0.00 0.00

I: az 64.0 el 79.5 pa -110.3 Z: az 313.1 el 22.0 pa 29.0 u,v (fr/asec) -5458.556 -7770.602 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/IZ..18UHQS Output file: /Exps/c201b/v1/1234/No0057/IZ.W.113.18UHQS



Fringe quality 0
 SNR 5.8
 Int time 415.619
 Amp 0.105
 Phase -66.8
 PFD 7.5e-01
 Delays (us)
 SBD 0.109437
 MBD -0.000483
 Fringe rate (Hz)
 0.022774
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084100.00
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143603
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



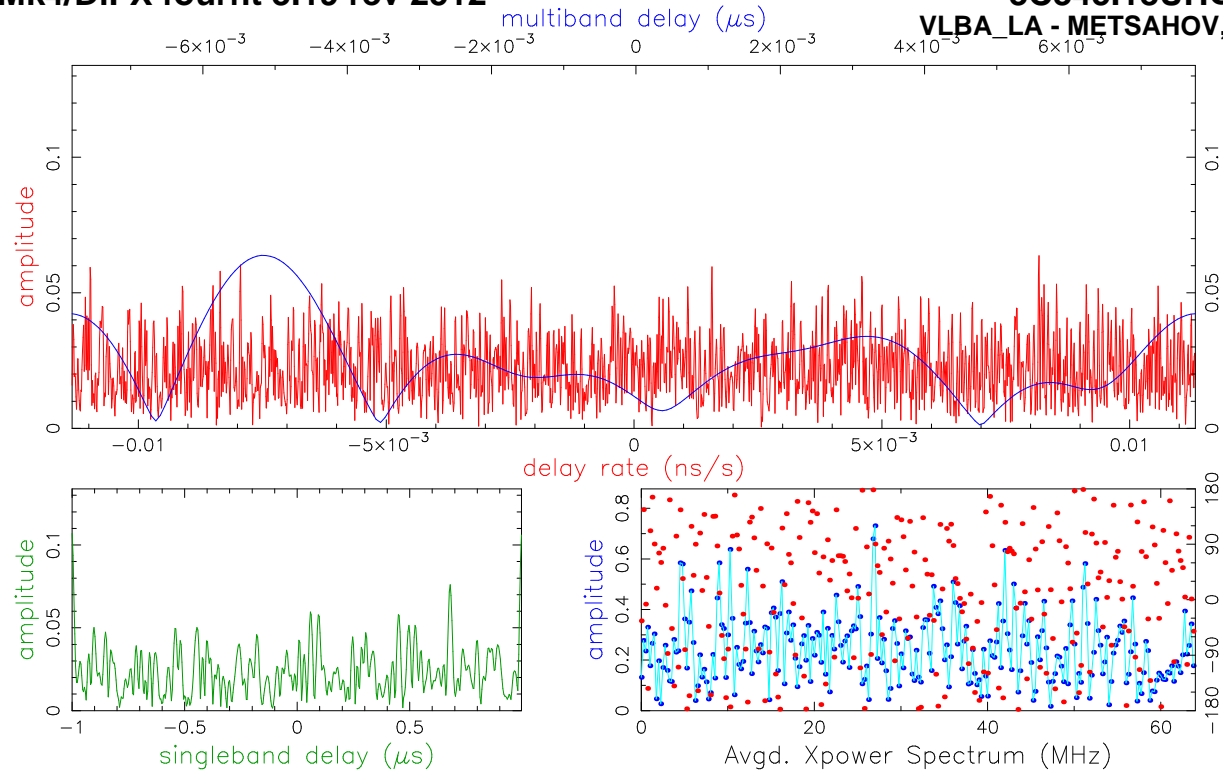
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-48.5	-76.0	-16.5	-123.7	-53.0	-74.1	-78.1	-40.0	Phase	-66.8
	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	Ampl.	0.1
	277.8	413.8	129.9	440.1	56.2	8.4	284.4	421.1	Sbd box	285.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	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)	1.31785253070E+04		Apriori delay (usec)		1.31784164148E+04		Resid mbdelay (usec)		-4.82832E-04	+/- 1.9E-04
Sband delay (usec)	1.31785258518E+04		Apriori clock (usec)		-3.5882916E+00		Resid sbdelay (usec)		1.09437E-01	+/- 1.5E-03
Phase delay (usec)	1.31784164126E+04		Apriori clockrate (us/s)		-1.6700000E-07		Resid phdelay (usec)		-2.15406E-06	+/- 6.3E-07
Delay rate (us/s)	7.05949329131E-01		Apriori rate (us/s)		7.05949064749E-01		Resid rate (us/s)		2.64383E-07	+/- 2.6E-09
Total phase (deg)	282.8		Apriori accel (us/s/s)		-9.05590037385E-05		Resid phase (deg)		-66.8	+/- 19.7

ph/seg (deg) 54.3 47.1 Search (2048X32) 0.103 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 72.3 82.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 34.8 27.8 Inc. seg. avg. 0.101 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.4 48.5 Inc. frq. avg. 0.105 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 I: az 64.0 el 79.5 pa -110.3 Z: az 313.1 el 22.0 pa 29.0 u,v (fr/asec) -5458.556 -7770.602 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/IZ..18UHQS Output file: /Exps/c201b/v1/1234/No0057/IZ.W.153.18UHQS

Mk4/DiFX fourfit 3.19 rev 2512

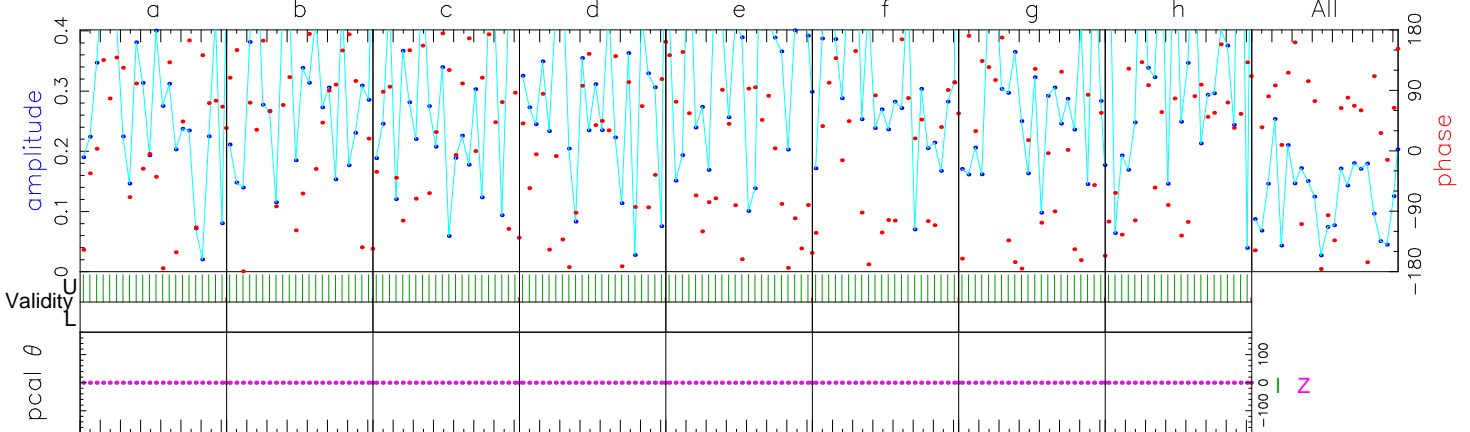
3C345.18UHQS, No0057, IZ

VLBA_LA - METSAHOV, fgroup W, pol RL



Fringe quality 0
 SNR 6.0
 Int time 415.619
 Amp 0.134
 Phase 98.0
 PFD 4.7e-01
 Delays (us)
 SBD 0.996582
 MBD -0.005229
 Fringe rate (Hz) 0.705147
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084100.00
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143607
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0				
I	1000	1000	1000	1000	1000	1000	1000	1000				
Z	1000	1000	1000	1000	1000	1000	1000	1000				
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0				
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0				
I	1000	1000	1000	1000	1000	1000	1000	1000				
Z	1000	1000	1000	1000	1000	1000	1000	1000				
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR				
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL				
Group delay (usec)(sbd)		1.3179411858E+04				1.31784164148E+04			Resid mbdelay (usec)	-5.22902E-03 +/- 1.8E-04		
Sband delay (usec)		1.31794129967E+04				-3.5882916E+00			Resid sbdelay (usec)	9.96582E-01 +/- 1.4E-03		
Phase delay (usec)		1.31784164180E+04				-1.6700000E-07			Resid phdelay (usec)	3.15967E-06 +/- 6.2E-07		
Delay rate (us/s)		7.05957250808E-01				7.05949064749E-01			Resid rate (us/s)	8.18606E-06 +/- 2.6E-09		
Total phase (deg)			87.6			-9.05590037385E-05			Resid phase (deg)	98.0 +/- 19.2		
ph/seg (deg)	78.8	46.1							PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	57.9	80.4							PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
ph/frq (deg)	71.1	27.2							Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
amp/frq (%)	40.1	47.4							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