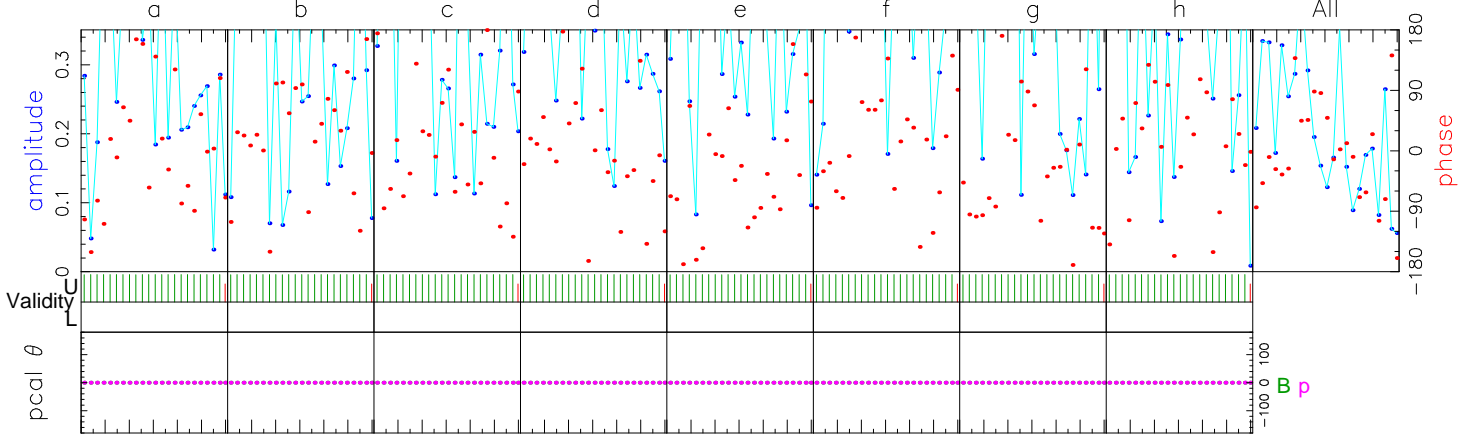


Fringe quality 0

SNR 6.1
Int time 358.819
Amp 0.117
Phase -5.4
PFD 3.0e-01
Delays (us)
SBD 0.000639
MBD -0.006836
Fringe rate (Hz)
-0.003749
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122444
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	7.2	31.1	-44.4	14.3	-58.0	9.5	-59.1	37.4	Phase	-5.4
B	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.2	Ampl.	0.1
p	485.0	474.3	7.3	15.0	129.0	202.2	11.1	256.3	Sbd box	257.2
B:p	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B:p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.58033070248E+03	Apriori delay (usec)	-1.58032386671E+03	Resid mbdelay (usec)	-6.83577E-03	+/-	1.8E-04
Sband delay (usec)	-1.58032322721E+03	Apriori clock (usec)	-4.2760925E+00	Resid sbdelay (usec)	6.39500E-04	+/-	1.4E-03
Phase delay (usec)	-1.58032386688E+03	Apriori clockrate (us/s)	-4.0399999E-07	Resid phdelay (usec)	-1.73919E-07	+/-	6.1E-07
Delay rate (us/s)	-1.39999773434E+00	Apriori rate (us/s)	-1.39999769082E+00	Resid rate (us/s)	-4.35217E-08	+/-	2.9E-09
Total phase (deg)	-321.6	Apriori accel (us/s/s)	2.39785858261E-05	Resid phase (deg)	-5.4	+/-	18.9

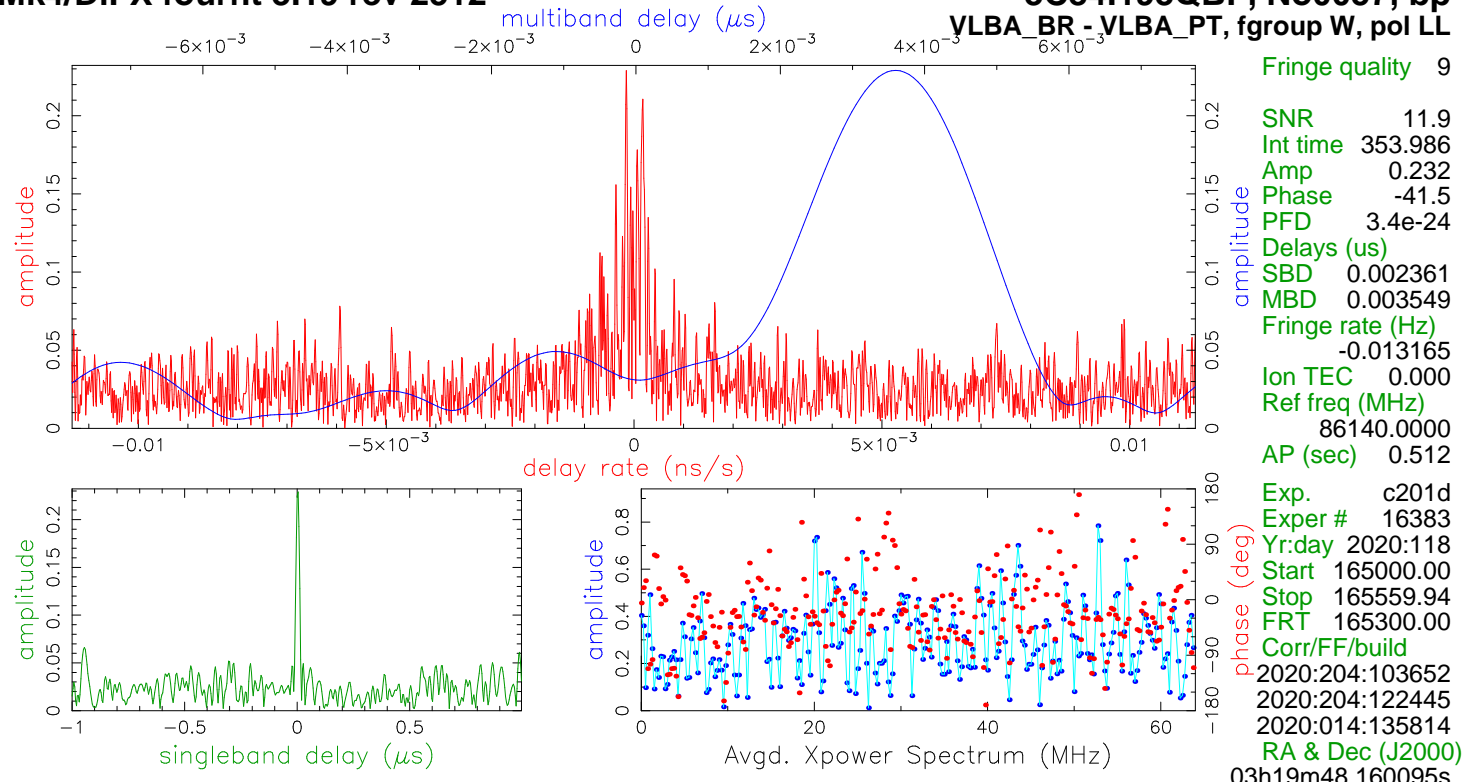
ph/seg (deg)	RMS 71.4	Theor. 45.4	Amplitude Search (2048X32)	0.117 +/- 0.019	0.116	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	117.5	79.2	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	43.0	26.8	Inc. seg. avg.	0.161	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	44.6	46.7	Inc. frq. avg.	0.135	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00	

B: az 284.8 el 45.4 pa 55.3 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 10745.539 2978.704 simultaneous interpolator

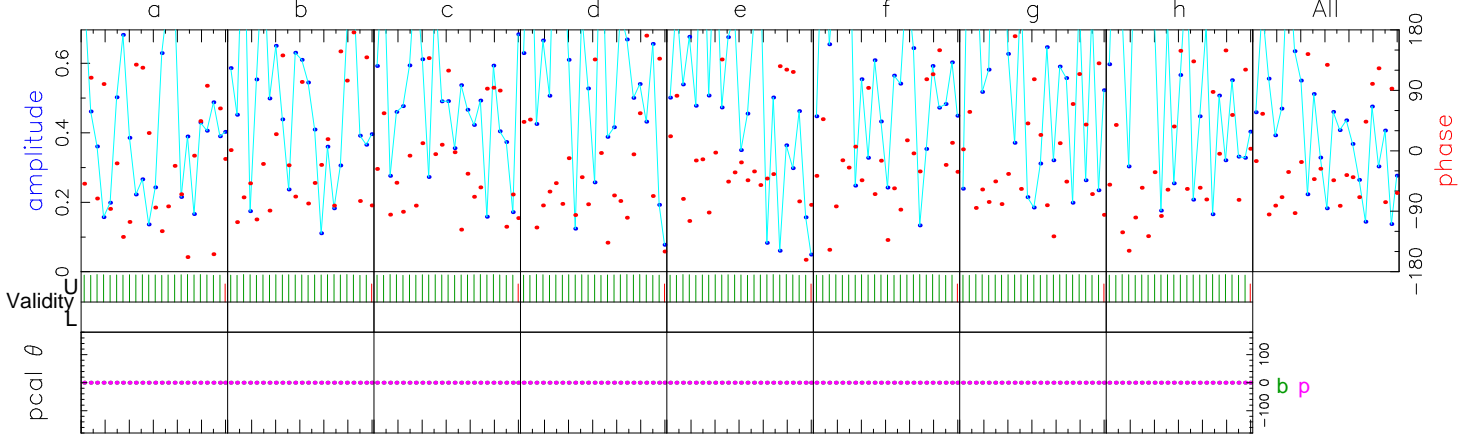
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Bp..193QBF Output file: /Exps/c201d/v1/1234/No0057/Bp.W.15.193QBF

Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, bp
VLBA_BR - VLBA_PT, fgroup W, pol LL



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

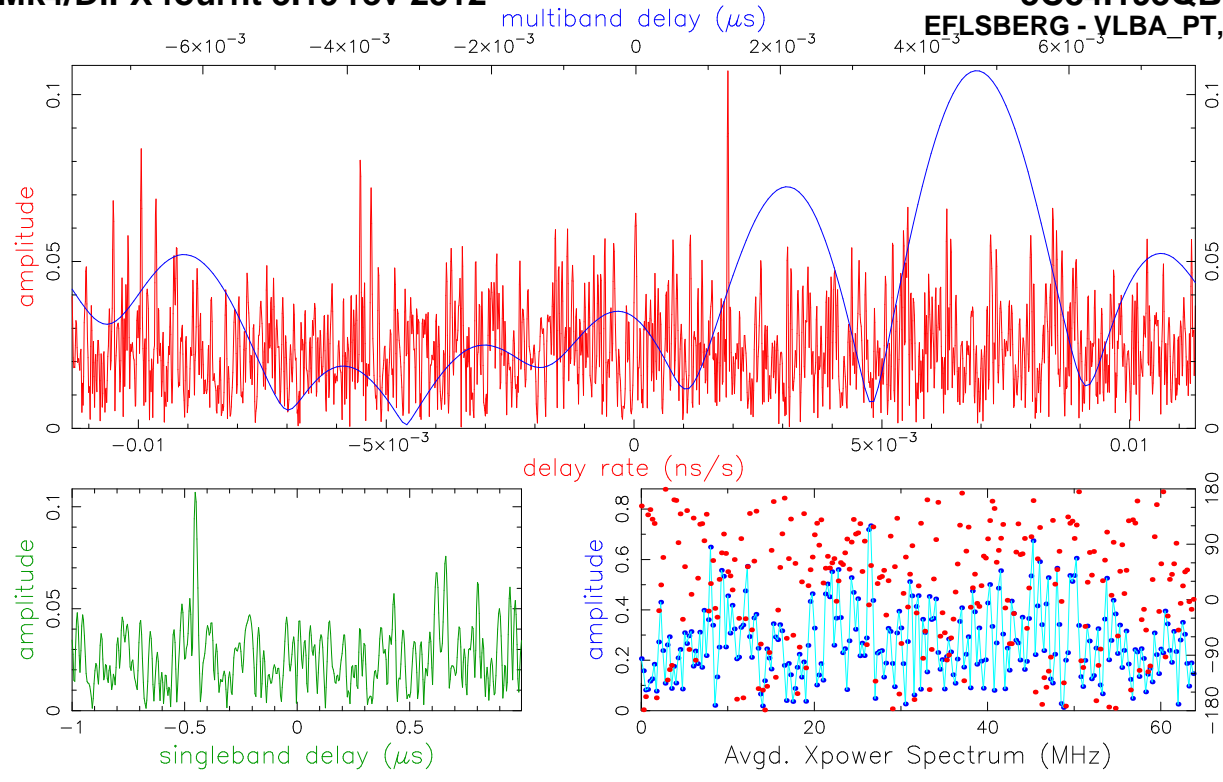


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-69.7	-58.5	-26.4	-46.5	-30.3	-20.6	-44.0	-59.0	Phase	-41.5
	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.2	Ampl.	0.2
	507.9	11.0	257.4	257.6	257.5	257.8	258.3	256.8	Sbd box	257.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-8.76876422129E+02		Apriori delay (usec)	-8.76879971550E+02	Resid mbdelay (usec)	3.54942E-03	+/-	9.1E-05		
Sband delay (usec)	-8.76877610300E+02		Apriori clock (usec)	-1.8715775E+01	Resid sbdelay (usec)	2.36125E-03	+/-	7.2E-04		
Phase delay (usec)	-8.76879972888E+02		Apriori clockrate (us/s)	-2.4600000E-07	Resid phdelay (usec)	-1.33786E-06	+/-	3.1E-07		
Delay rate (us/s)	-4.87779450349E-02		Apriori rate (us/s)	-4.8777921983E-02	Resid rate (us/s)	-1.52837E-07	+/-	1.5E-09		
Total phase (deg)		-311.2	Apriori accel (us/s/s)	1.81176116712E-05	Resid phase (deg)	-41.5	+/-	9.6		

	RMS	Theor.	Amplitude	0.232 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	82.4	23.0	Search (2048X32)	0.224	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	115.3	40.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	19.2	13.6	Inc. seg. avg.	0.392	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	28.7	23.7	Inc. frq. avg.	0.231	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

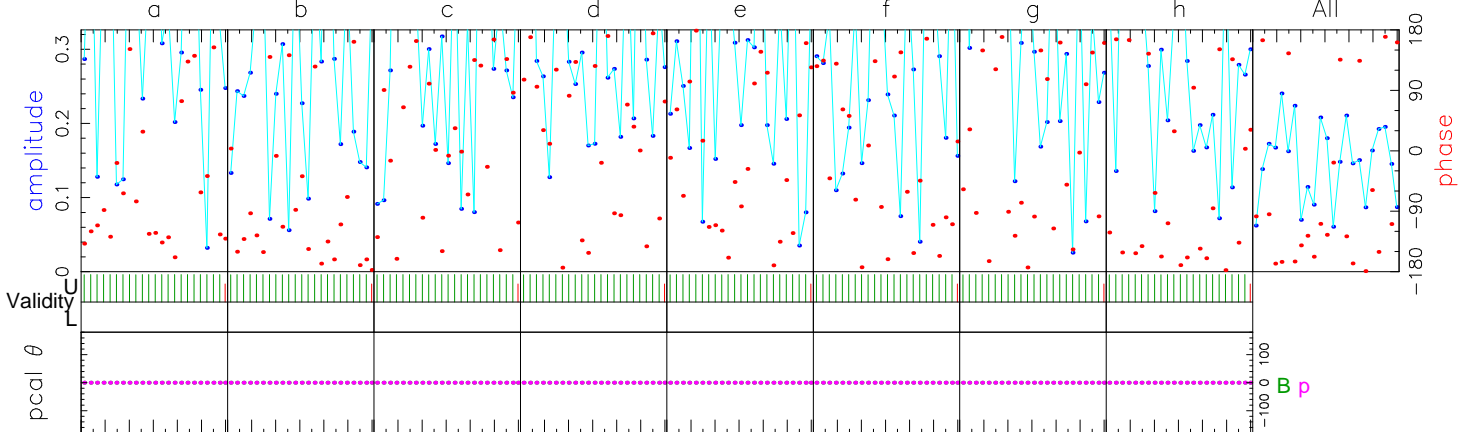
b: az 75.0 el 47.2 pa -59.5 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 393.591 2459.758 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bp..193QBF Output file: /Exps/c201d/v1/1234/No0057/bp.W.21.193QBF



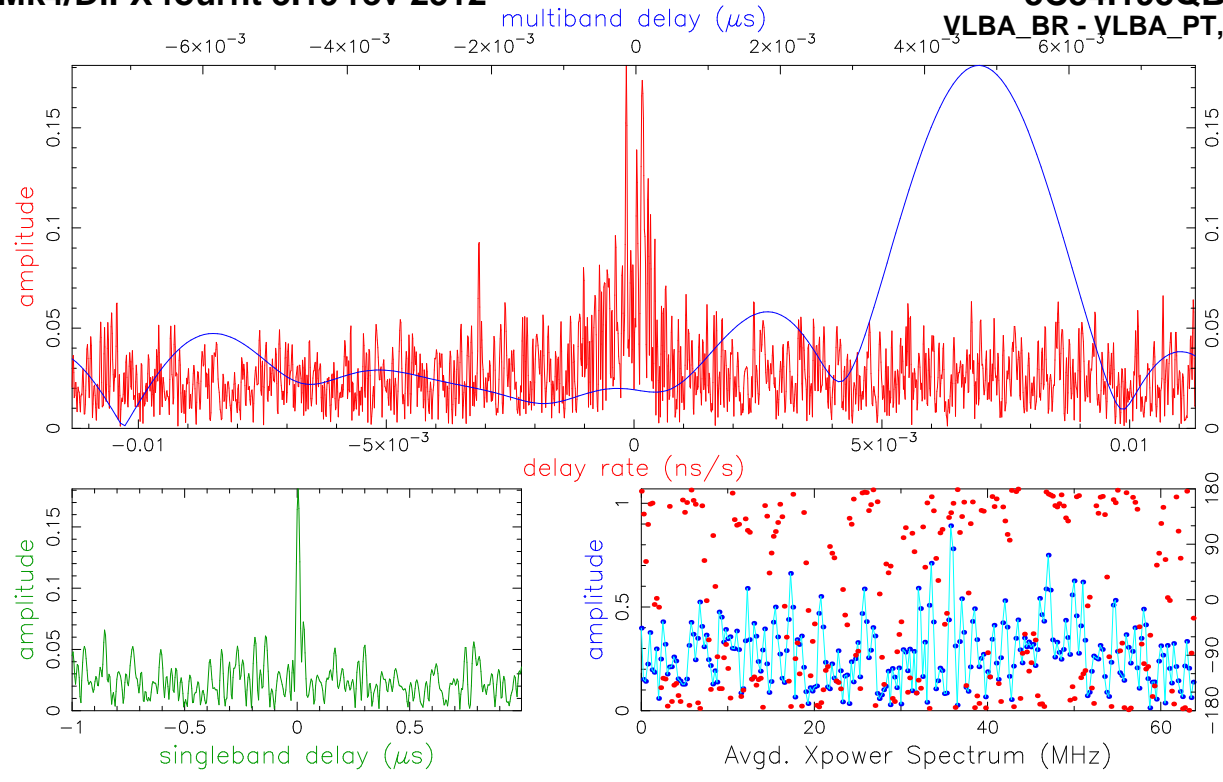
Fringe quality 0
SNR 5.6
Int time 358.819
Amp 0.109
Phase -153.1
PFD 1.0e+00
Delays (us)
SBD -0.452275
MBD 0.004759
Fringe rate (Hz)
0.163732
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122448
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



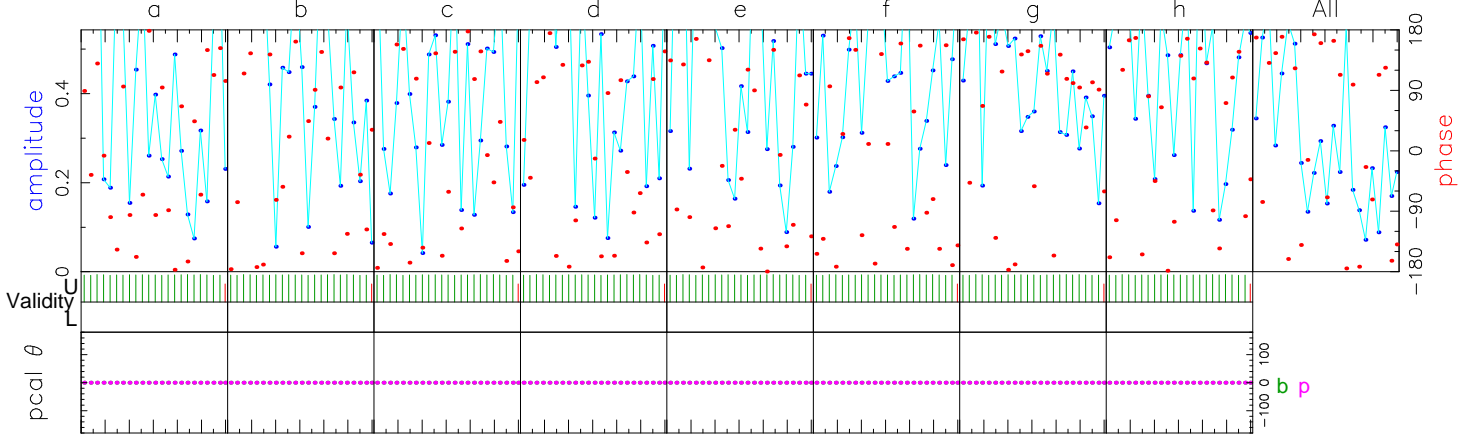
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-144.2	-133.1	141.2	123.2	-148.1	-143.8	-138.9	-159.8	Phase	-153.1
	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
	141.6	327.2	318.6	368.3	425.6	76.5	438.8	398.8	Sbd box	141.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.58077223290E+03		Apriori delay (usec)		-1.58032386671E+03		Resid mbdelay (usec)		4.75881E-03	+/- 1.9E-04
Sband delay (usec)	-1.58077614196E+03		Apriori clock (usec)		-4.2760925E+00		Resid sbdelay (usec)		-4.52275E-01	+/- 1.5E-03
Phase delay (usec)	-1.58032387164E+03		Apriori clockrate (us/s)		-4.0399999E-07		Resid phdelay (usec)		-4.93651E-06	+/- 6.6E-07
Delay rate (us/s)	-1.39999579006E+00		Apriori rate (us/s)		-1.39999769082E+00		Resid rate (us/s)		1.90076E-06	+/- 3.2E-09
Total phase (deg)			Apriori accel (us/s/s)		2.39785858261E-05		Resid phase (deg)		-153.1	+/- 20.6

ph/seg (deg) 51.6 49.3 Search (2048X32) 0.105 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 61.9 86.1 Interp. 0.005 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 45.0 29.1 Inc. seg. avg. 0.110 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 46.4 50.8 Inc. frq. avg. 0.109 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 284.8 el 45.4 pa 55.3 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 10745.539 2978.704 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Bp..193QBF Output file: /Exps/c201d/v1/1234/No0057/Bp.W.37.193QBF



Fringe quality 9
SNR 9.3
Int time 353.987
Amp 0.181
Phase 170.5
PFD 4.7e-12
Delays (us)
SBD 0.003958
MBD 0.004753
Fringe rate (Hz)
-0.012937
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122449
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

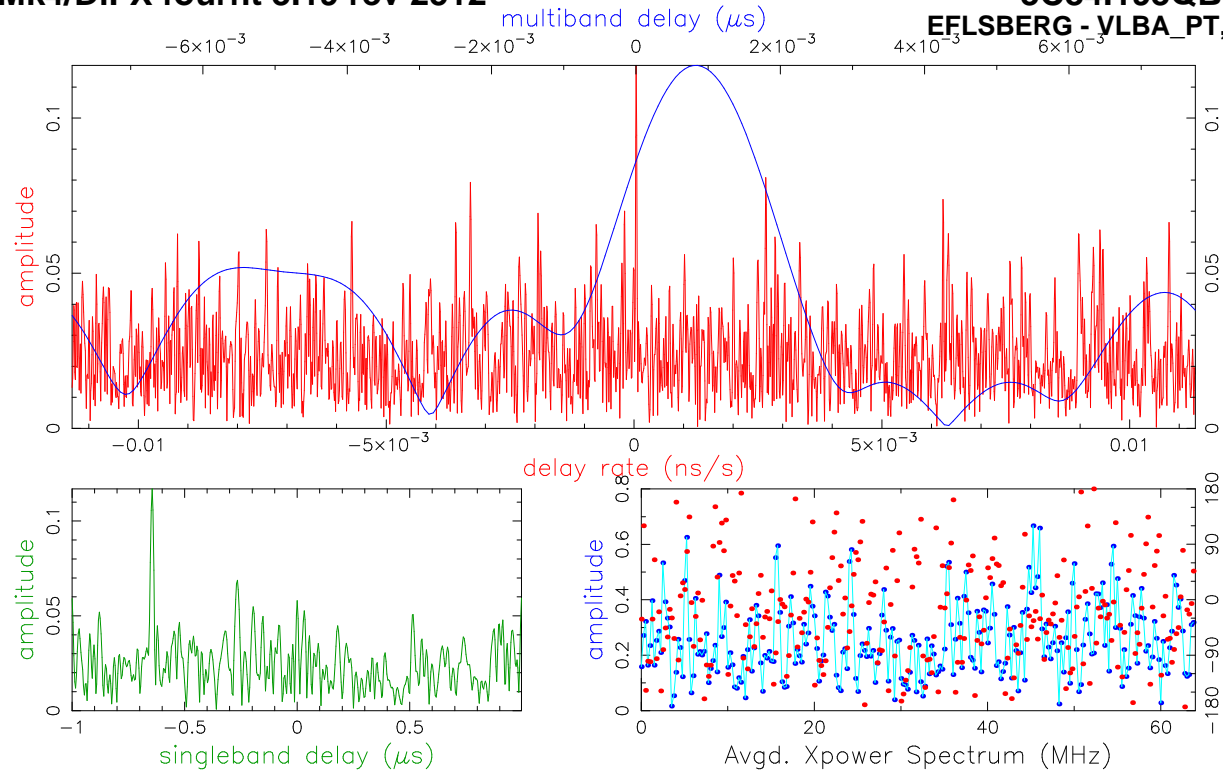
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-8.76875218254E+02									
Sband delay (usec)	-8.76876013800E+02									
Phase delay (usec)	-8.76879966051E+02									
Delay rate (us/s)	-4.87779423891E-02									
Total phase (deg)			-99.2							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

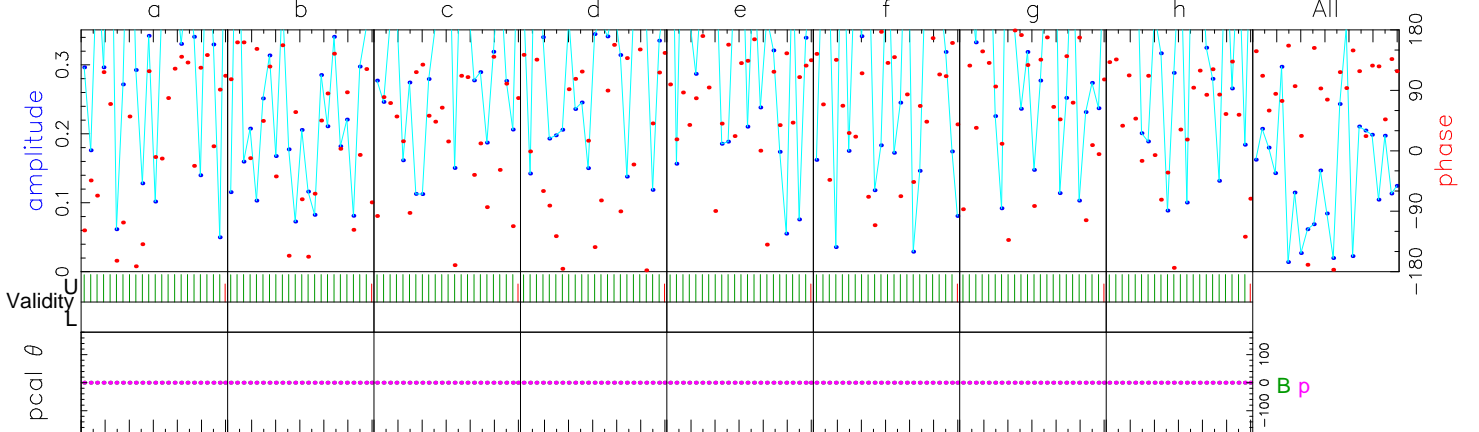
	RMS	Theor.	Amplitude	0.181 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	74.0	29.5	Search (2048X32)	0.174	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	109.3	51.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	13.6	17.4	Inc. seg. avg.	0.264	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	23.1	30.4	Inc. frq. avg.	0.177	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 75.0 el 47.2 pa -59.5 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 393.591 2459.758 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bp..193QBF Output file: /Exps/c201d/v1/1234/No0057/bp.W.42.193QBF



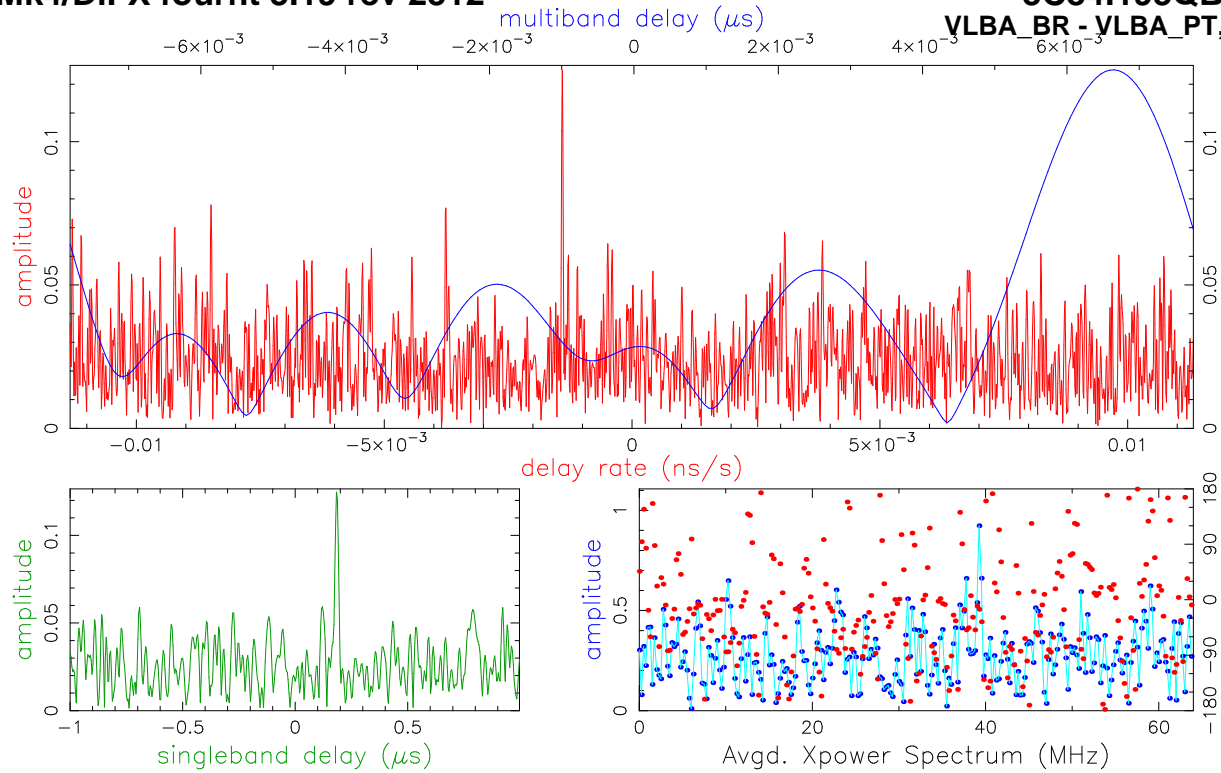
Fringe quality 0
SNR 6.1
Int time 358.819
Amp 0.117
Phase 98.3
PFD 3.0e-01
Delays (us)
SBD -0.644455
MBD 0.000835
Fringe rate (Hz)
0.003407
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122452
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.58096365672E+03									
Sband delay (usec)	-1.58096832196E+03									
Phase delay (usec)	-1.58032386354E+03									
Delay rate (us/s)	-1.39999765127E+00									
Total phase (deg)			-217.9							
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)									98.3	+/- 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 284.8 el 45.4 pa 55.3 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 10745.539 2978.704 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Bp..193QBF Output file: /Exps/c201d/v1/1234/No0057/Bp.W.60.193QBF

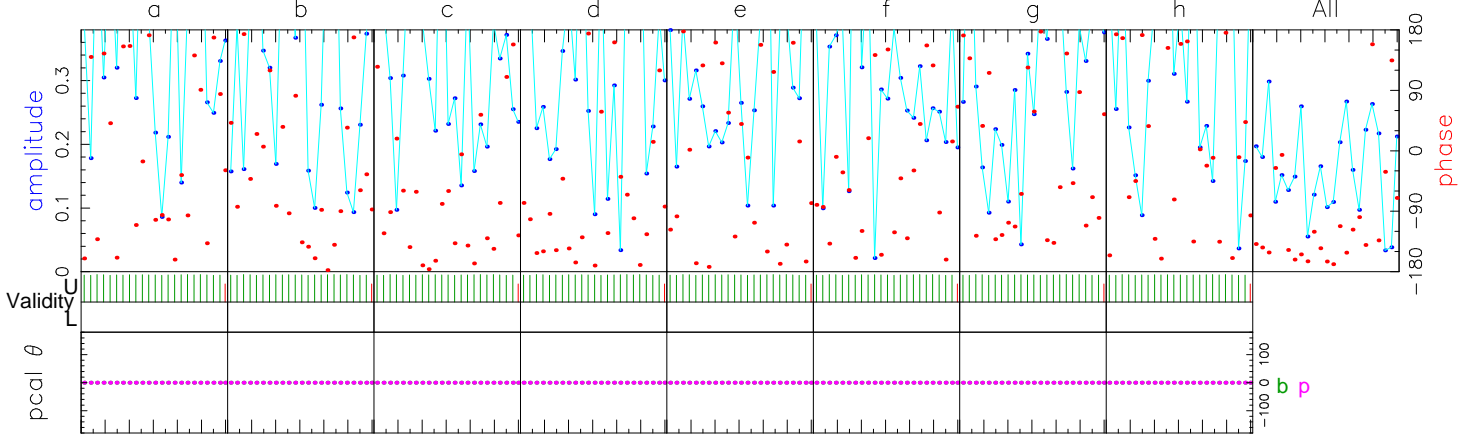


Fringe quality 0

SNR 6.5
Int time 353.986
Amp 0.127
Phase -140.0
PFD 2.7e-02
Delays (us)
SBD 0.184784
MBD 0.006718
Fringe rate (Hz)
-0.121198
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

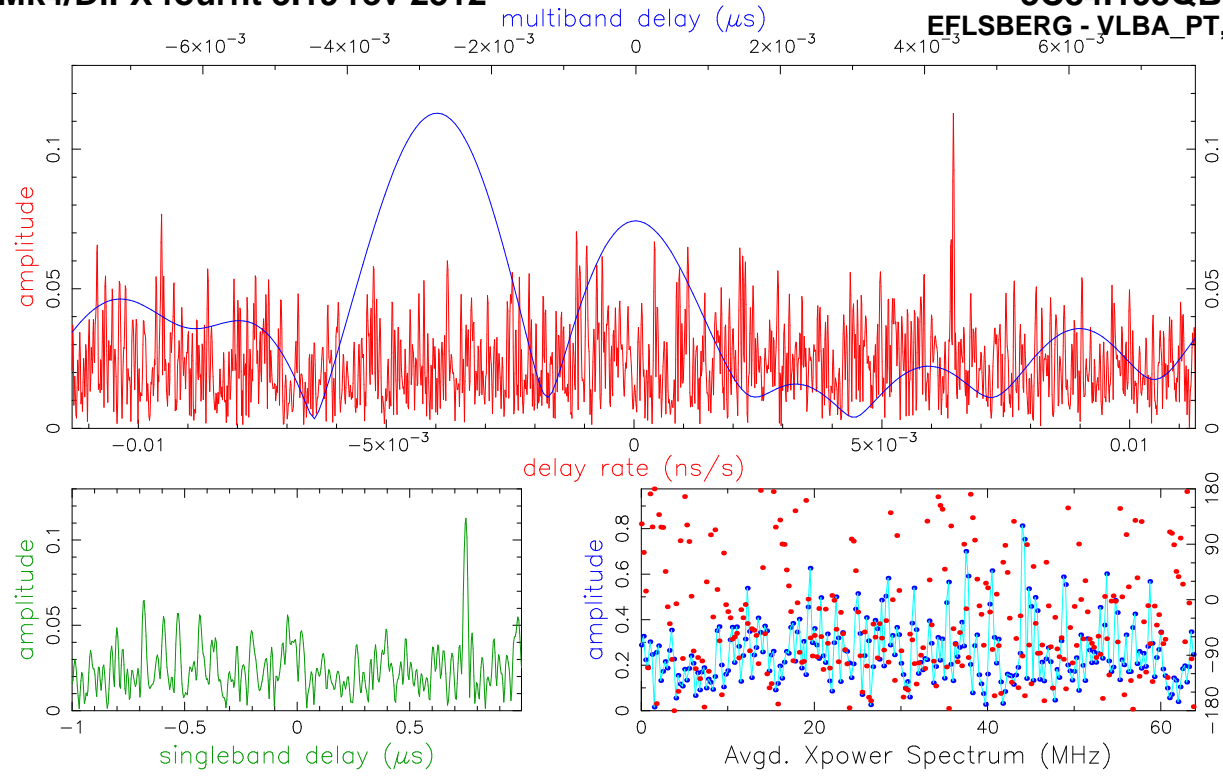
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122453
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



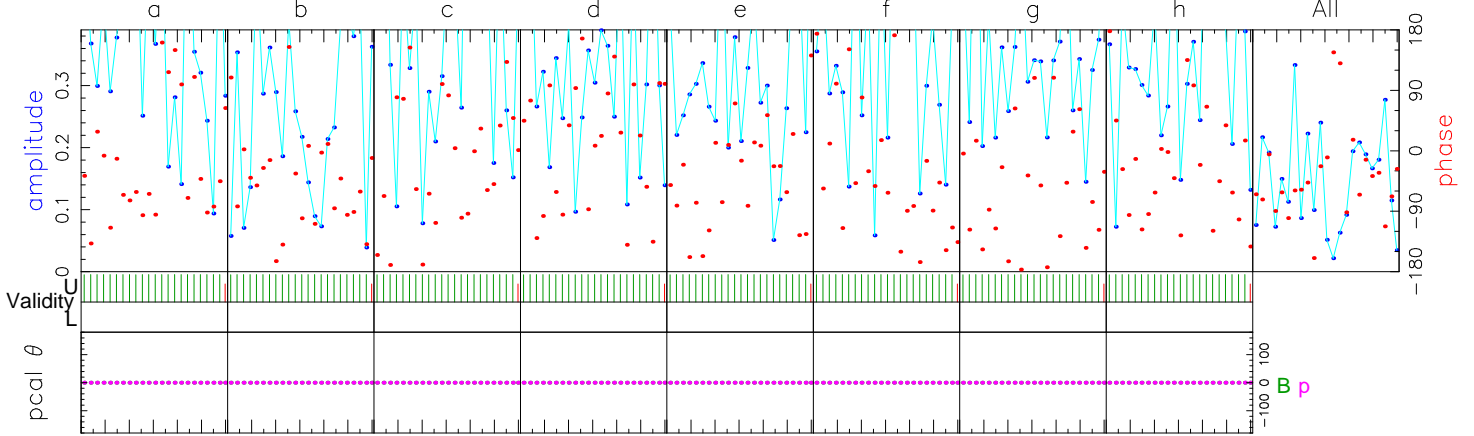
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-178.7	-85.8	-128.8	-125.8	-161.6	-94.6	-148.8	-157.3	Phase	-140.0
	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.2	Ampl.	0.1
	306.0	278.8	114.0	225.2	27.3	224.6	180.4	301.6	Sbd box	304.3
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-8.76701378591E+02		Apriori delay (usec)	-8.76879971550E+02	Resid mbdelay (usec)	6.71796E-03	+/-	1.7E-04		
Sband delay (usec)	-8.76695187300E+02		Apriori clock (usec)	-1.8715775E+01	Resid sbdelay (usec)	1.84784E-01	+/-	1.3E-03		
Phase delay (usec)	-8.76879976065E+02		Apriori clockrate (us/s)	-2.4600000E-07	Resid phdelay (usec)	-4.51523E-06	+/-	5.7E-07		
Delay rate (us/s)	-4.87791991882E-02		Apriori rate (us/s)	-4.87777921983E-02	Resid rate (us/s)	-1.40699E-06	+/-	2.7E-09		
Total phase (deg)		-49.8	Apriori accel (us/s/s)	1.81176116712E-05	Resid phase (deg)	-140.0	+/-	17.7		

ph/seg (deg) 52.9 42.5 Search (2048X32) 0.124 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 64.9 74.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 35.7 25.0 Inc. seg. avg. 0.128 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 31.6 43.7 Inc. frq. avg. 0.129 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
b: az 75.0 el 47.2 pa -59.5 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 393.591 2459.758 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bp..193QBF Output file: /Exps/c201d/v1/1234/No0057/bp.W.61.193QBF



Fringe quality 0
SNR 5.9
Int time 358.819
Amp 0.130
Phase -53.4
PFD 6.7e-01
Delays (us)
SBD 0.748936
MBD -0.002792
Fringe rate (Hz) 0.556272
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122456
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-64.1	-63.1	-30.5	47.1	-48.8	-86.2	-53.4	-40.8	Phase	-53.4
	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.2	Ampl.	0.1
	449.0	390.0	72.5	438.5	120.1	166.0	232.4	445.7	Sbd box	448.7
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

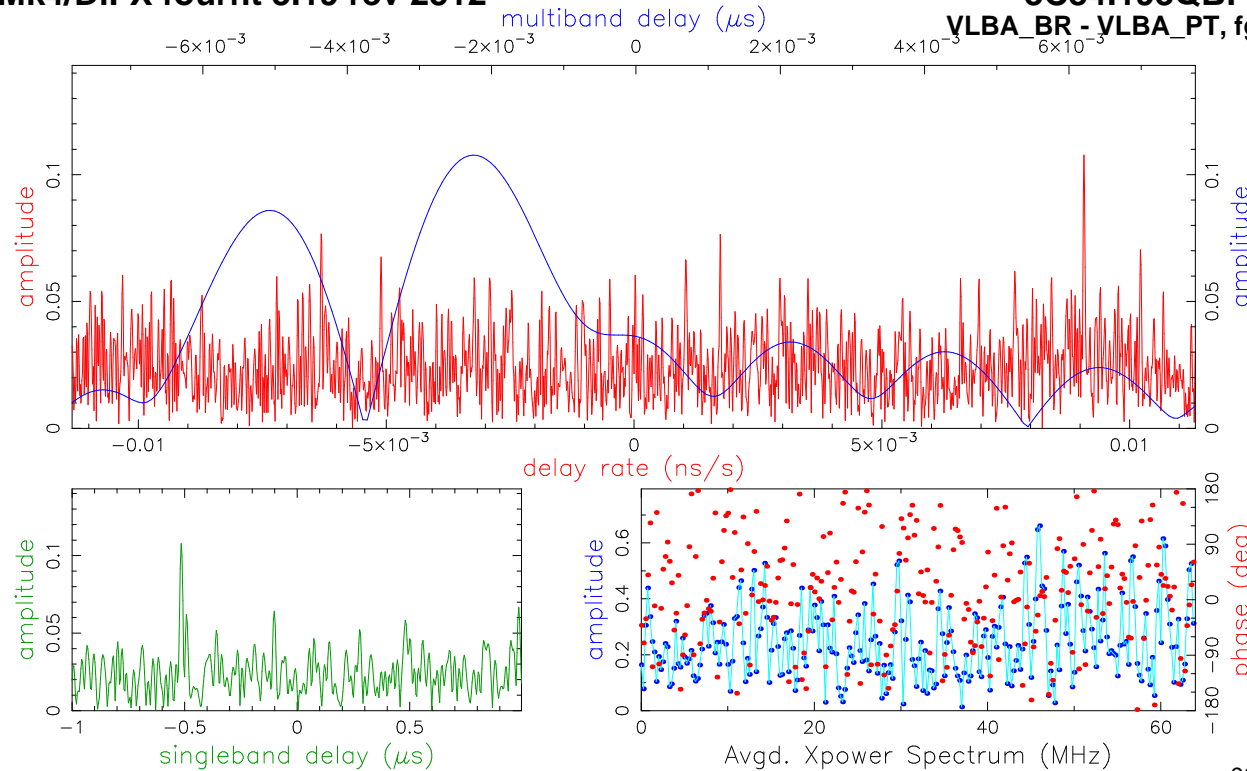
Group delay (usec)(sbd)	-1.57957665905E+03	Apriori delay (usec)	-1.58032386671E+03	Resid mbdelay (usec)	-2.79234E-03	+/-	1.8E-04
Sband delay (usec)	-1.57957493096E+03	Apriori clock (usec)	-4.2760925E+00	Resid sbdelay (usec)	7.48936E-01	+/-	1.5E-03
Phase delay (usec)	-1.58032386843E+03	Apriori clockrate (us/s)	-4.0399999E-07	Resid phdelay (usec)	-1.72048E-06	+/-	6.3E-07
Delay rate (us/s)	-1.39999123306E+00	Apriori rate (us/s)	-1.39999769082E+00	Resid rate (us/s)	6.45776E-06	+/-	3.0E-09
Total phase (deg)	-9.5	Apriori accel (us/s/s)	2.39785858261E-05	Resid phase (deg)	-53.4	+/-	19.5

ph/seg (deg)	63.2	Theor.	46.8	Amplitude	0.130 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	77.3		81.7	Search (2048X32)	0.110	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	44.9		27.6	Inc. seg. avg.	0.129	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	36.1		48.2	Inc. frq. avg.	0.131	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

B: az 284.8 el 45.4 pa 55.3 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 10745.539 2978.704 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Bp..193QBF Output file: /Exps/c201d/v1/1234/No0057/Bp.W.75.193QBF

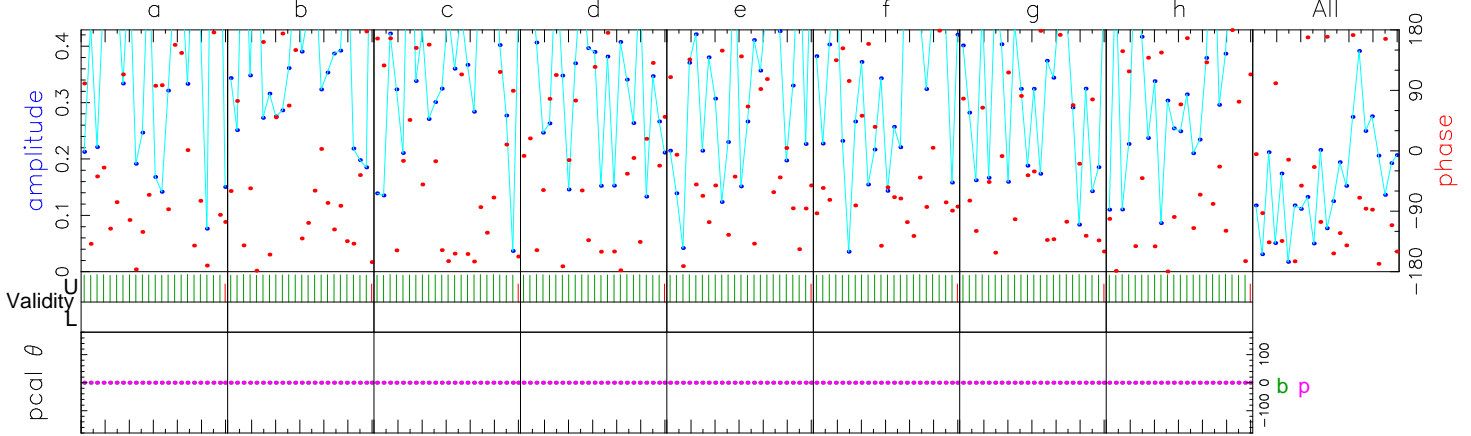
Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, bp
VLBA_BR - VLBA_PT, fgroup W, pol RL



Fringe quality 0
SNR 5.6
Int time 353.986
Amp 0.143
Phase -124.4
PFD 1.0e+00
Delays (us)
SBD -0.514859
MBD -0.002229
Fringe rate (Hz) 0.782798
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122456
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

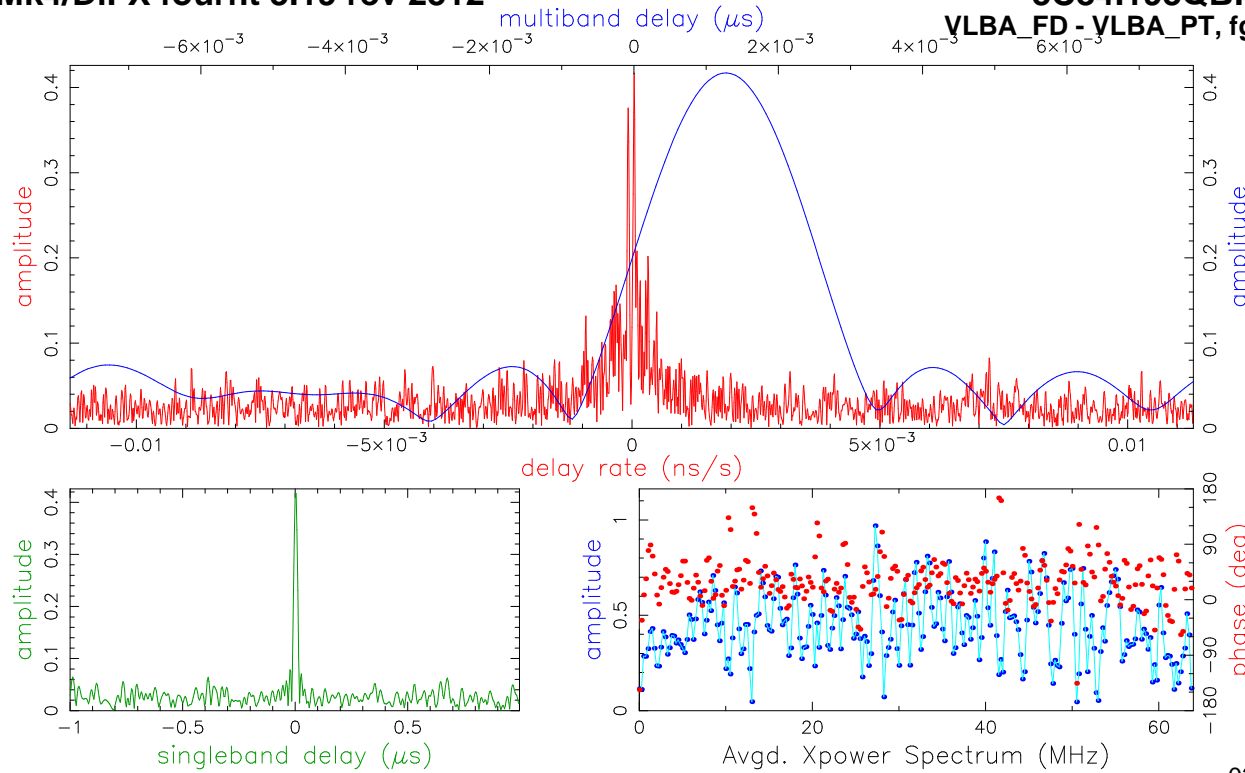
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-124.2	-131.7	-146.6	-61.3	-77.3	-91.2	-125.5	-165.5	Phase	-124.4
	0.2	0.2	0.2	0.0	0.1	0.2	0.1	0.2	Ampl.	0.1
	28.7	124.6	386.1	293.4	417.3	456.2	92.6	239.5	Sbd box	125.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-8.77397825992E+02			Apriori delay (usec)	-8.76879971550E+02			Resid mbdelay (usec)	-2.22944E-03	+/- 2.0E-04
Sband delay (usec)	-8.77394830800E+02			Apriori clock (usec)	-1.8715775E+01			Resid sbdelay (usec)	-5.14859E-01	+/- 1.5E-03
Phase delay (usec)	-8.76879975561E+02			Apriori clockrate (us/s)	-2.4600000E-07			Resid phdelay (usec)	-4.01088E-06	+/- 6.6E-07
Delay rate (us/s)	-4.87687046932E-02			Apriori rate (us/s)	-4.87777921983E-02			Resid rate (us/s)	9.08751E-06	+/- 3.2E-09
Total phase (deg)		-34.1		Apriori accel (us/s/s)	1.81176116712E-05			Resid phase (deg)	-124.4	+/- 20.6

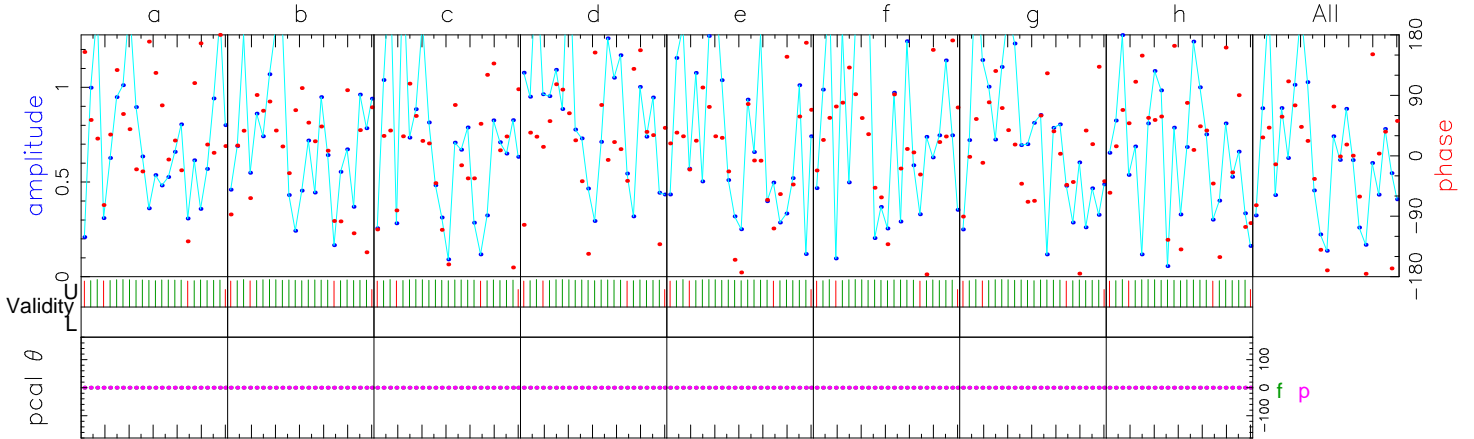
	RMS	Theor.	Amplitude	0.143 +/- 0.026	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	63.2	49.4	Search (2048X32)	0.106	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	95.3	86.2	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	39.9	29.1	Inc. seg. avg.	0.155	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	52.7	50.8	Inc. frq. avg.	0.142	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 75.0 el 47.2 pa -59.5 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 393.591 2459.758 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bp..193QBF Output file: /Exps/c201d/v1/1234/No0057/bp.W.76.193QBF



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

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)		3.11819883950E+02				3.11818642325E+02			Resid mbdelay (usec)	1.24162E-03 +/- 5.0E-05
Sband delay (usec)		3.11820629825E+02				-1.3383242E+01			Resid sbdelay (usec)	1.98750E-03 +/- 4.0E-04
Phase delay (usec)		3.11818643570E+02				-9.4999990E-08			Resid phdelay (usec)	1.24462E-06 +/- 1.7E-07
Delay rate (us/s)		-1.98351953953E-02				-1.98352362798E-02			Resid rate (us/s)	4.08845E-08 +/- 8.2E-10
Total phase (deg)			344.6			-5.77236990164E-06			Resid phase (deg)	38.6 +/- 5.3

ph/seg (deg) 82.8 12.6
amp/seg (%) 98.8 22.0
ph/frq (deg) 11.4 7.4
amp/frq (%) 12.6 13.0

RMS Theor. Amplitude 0.426 +/- 0.020
Search (2048X32) 0.406
Interp. 0.000
Inc. seg. avg. 0.641
Inc. frq. avg. 0.419

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

Group delay (usec)(sbd) 3.11819883950E+02 Apriori delay (usec) 3.11818642325E+02 Resid mbdelay (usec) 1.24162E-03 +/- 5.0E-05
Sband delay (usec) 3.11820629825E+02 Apriori clock (usec) -1.3383242E+01 Resid sbdelay (usec) 1.98750E-03 +/- 4.0E-04
Phase delay (usec) 3.11818643570E+02 Apriori clockrate (us/s) -9.4999990E-08 Resid phdelay (usec) 1.24462E-06 +/- 1.7E-07
Delay rate (us/s) -1.98351953953E-02 Apriori rate (us/s) -1.98352362798E-02 Resid rate (us/s) 4.08845E-08 +/- 8.2E-10
Total phase (deg) 344.6 Apriori accel (us/s/s) -5.77236990164E-06 Resid phase (deg) 38.6 +/- 5.3

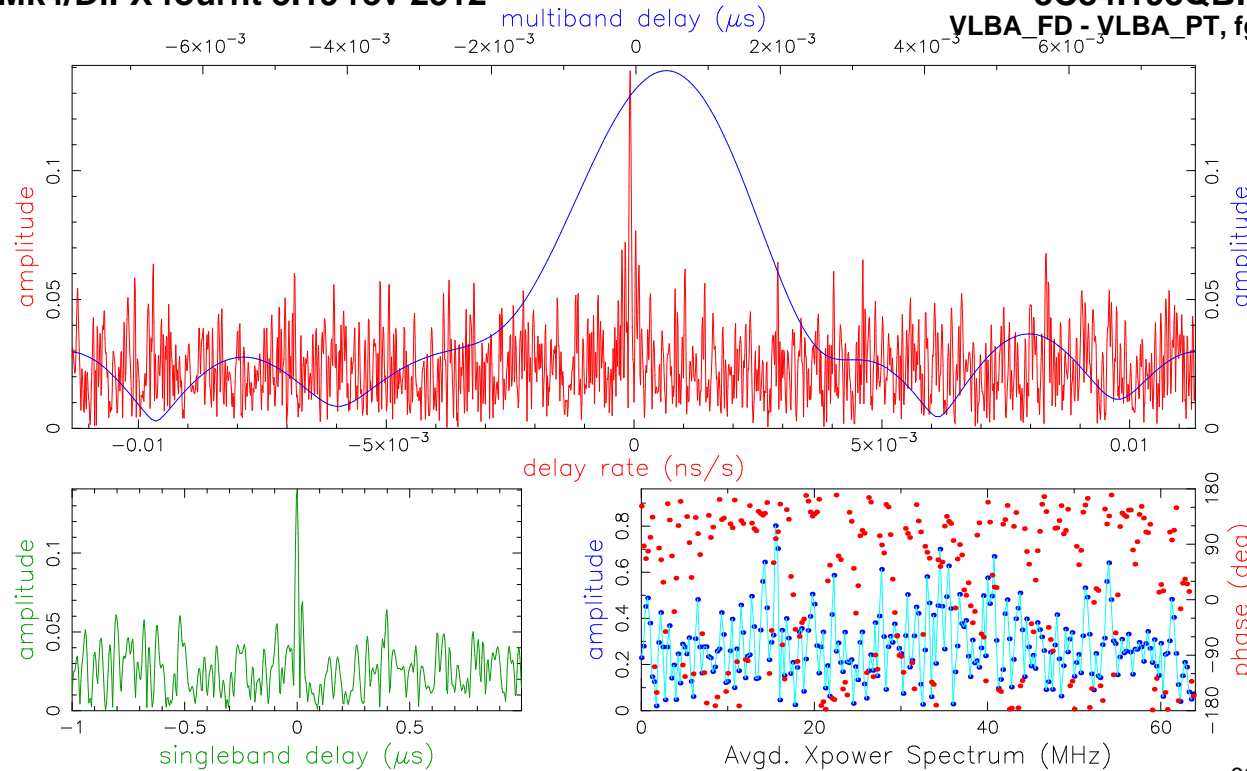
PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fp..193QBF Output file: /Exps/c201d/v1/1234/No0057/fp.W.100.193QBF

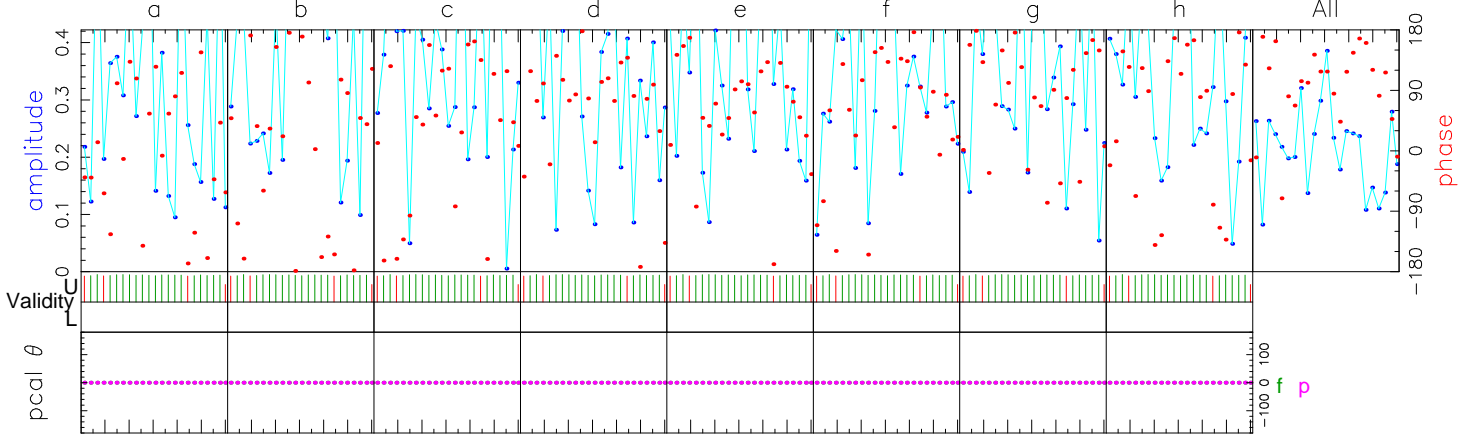
Mk4/DiFX fourfit 3.19 rev 2512

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



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

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

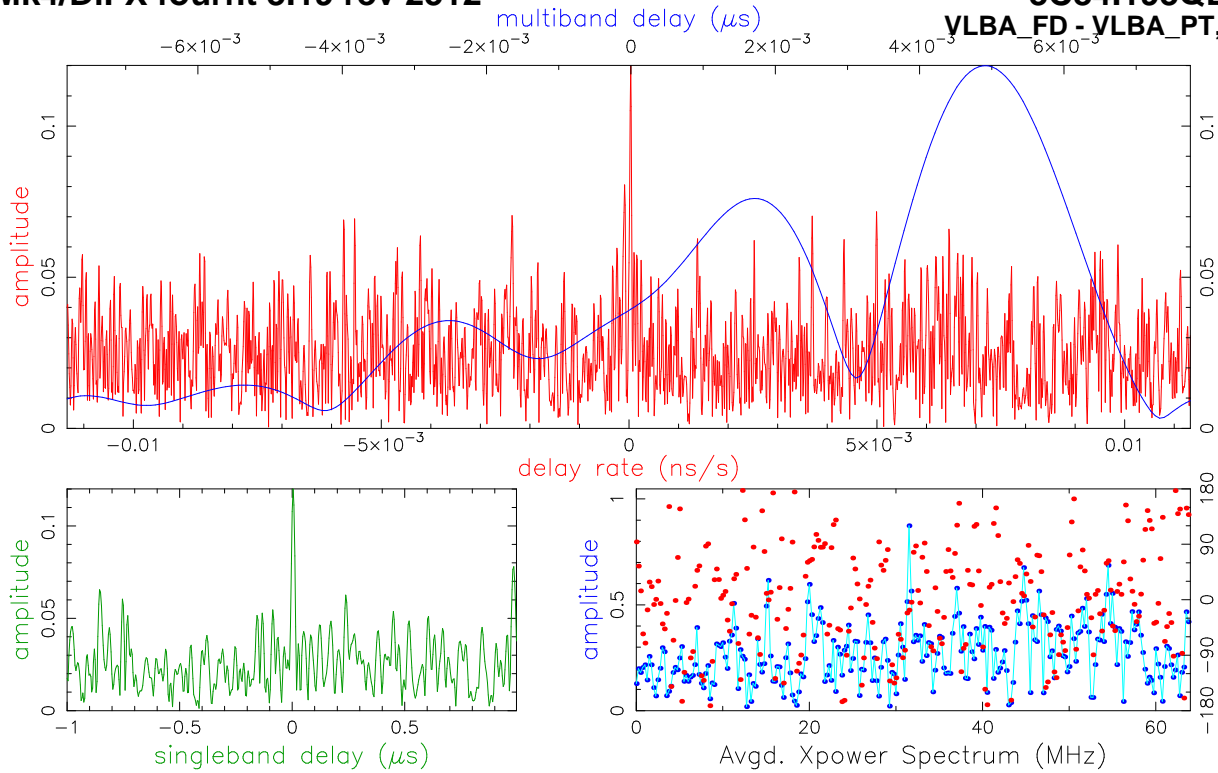


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

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

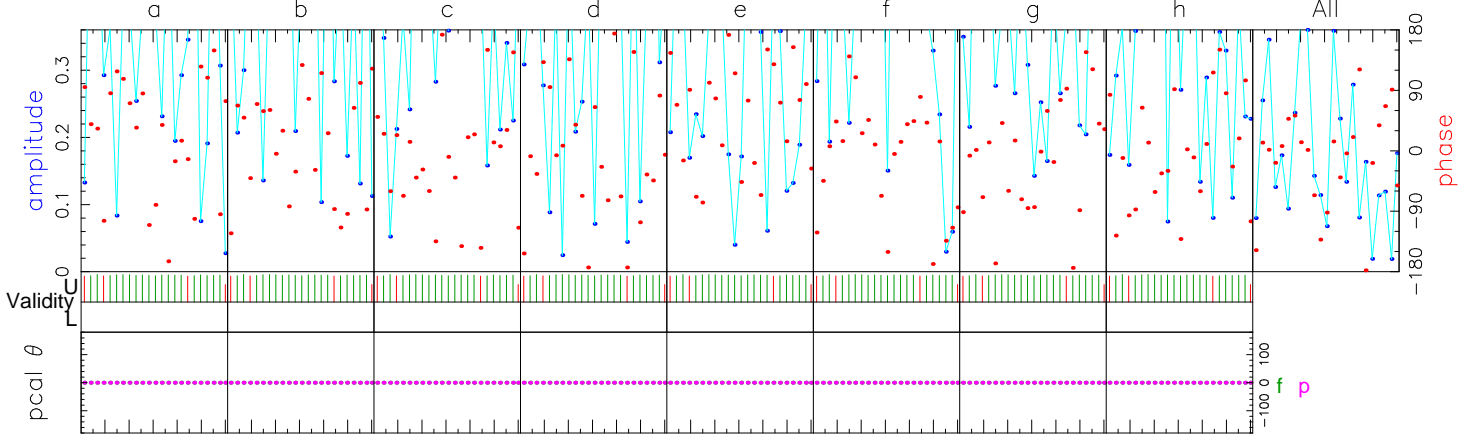
ph/seg (deg)	60.0	38.2	Search (2048X32)	0.138	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
amp/seg (%)	74.0	66.6	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
ph/frq (deg)	31.3	22.5	Inc. seg. avg.	0.177	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	33.5	39.3	Inc. frq. avg.	0.141	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011		
f: az 60.3 el 52.1 pa -91.3				p: az 64.2 el 50.6 pa -84.3				ion window (TEC)		0.00 0.00
u,v (fr/asec) 145.395 -761.160				simultaneous interpolator						

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fp..193QBF Output file: /Exps/c201d/v1/1234/No0057/fp.W.116.193QBF



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

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

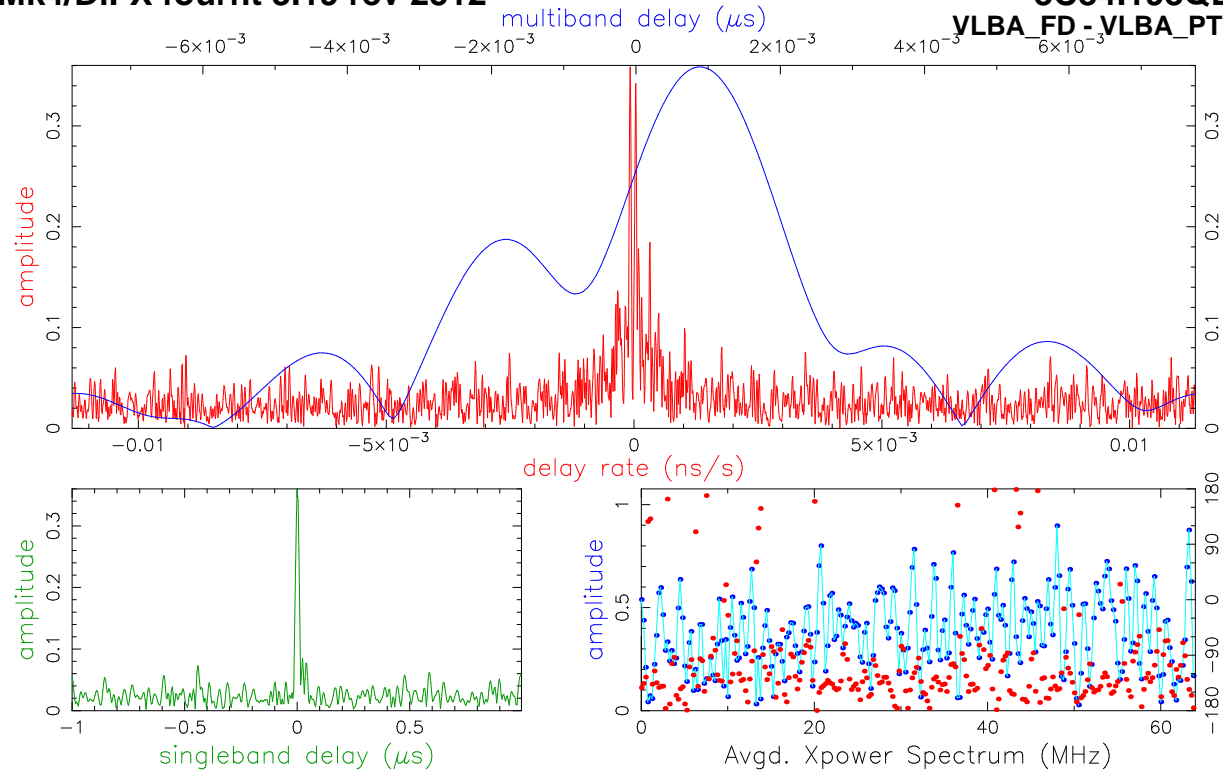


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

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

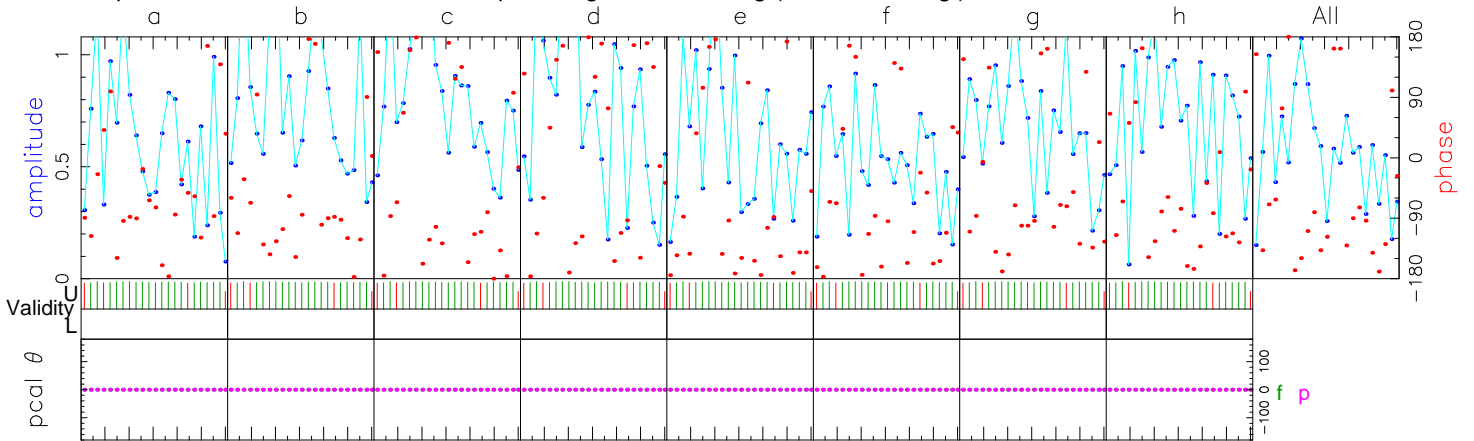
ph/seg (deg)	RMS 73.4	Theor. 44.7	Amplitude Search (2048X32)	0.120 +/- 0.020	0.118	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
amp/seg (%)	102.3	78.1	Interp.	0.000	0.118	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
ph/frq (deg)	39.7	26.4	Inc. seg. avg.	0.136	0.118	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	43.9	46.1	Inc. frq. avg.	0.124	0.118	Sample rate(MISamp/s): 128			dr window (ns/s)	-0.011 0.011	
						Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

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



Fringe quality 8
SNR 18.4
Int time 349.718
Amp 0.360
Phase -129.9
PFD 0.0e+00
Delays (us)
SBD 0.000813
MBD 0.000898
Fringe rate (Hz)
-0.006284
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122459
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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

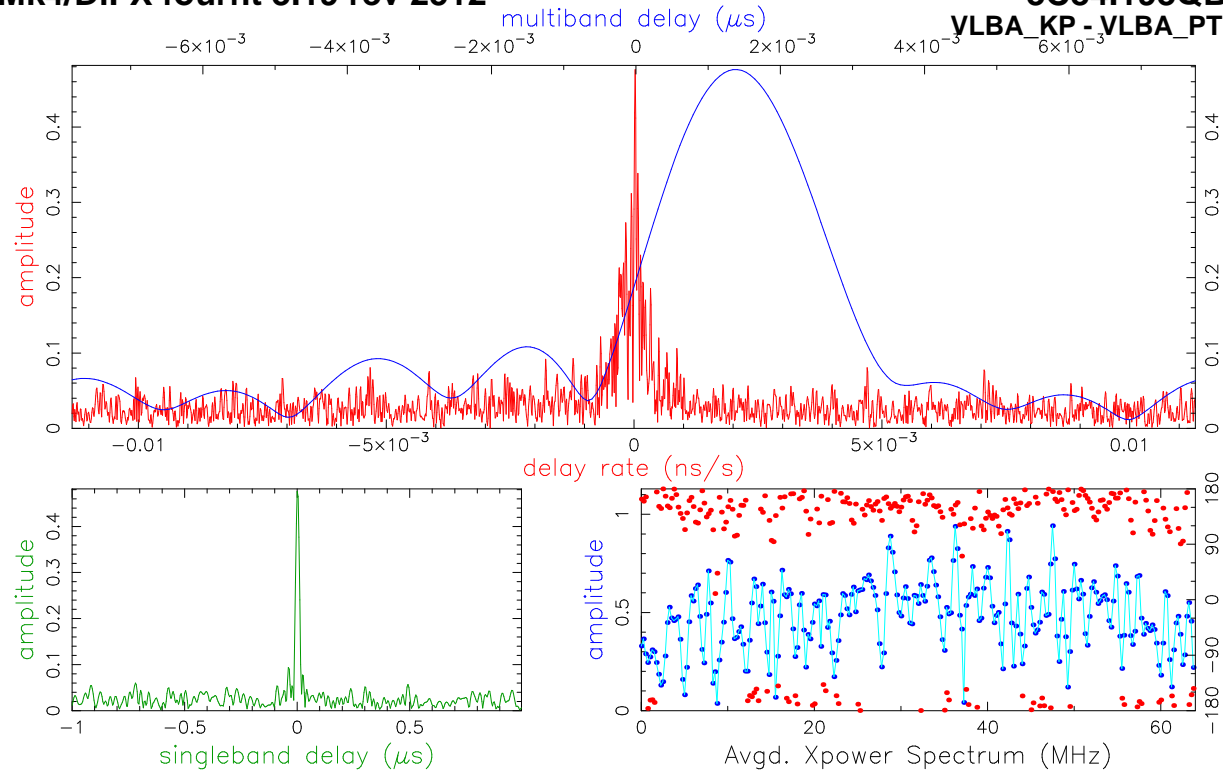


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-92.1	-110.8	-154.9	-161.8	-153.0	-129.9	-116.9	-108.9	Phase	-129.9
	0.3	0.5	0.5	0.5	0.4	0.2	0.4	0.4	Ampl.	0.4
	256.5	256.6	257.5	257.4	257.6	257.9	257.1	257.2	Sbd box	257.2
U/L	702/0	702/0	702/0	702/0	702/0	702/0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

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

ph/seg (deg)	61.8	Theor.	14.9	Search (2048X32)	0.350	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	88.5		26.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	27.6		8.8	Inc. seg. avg.	0.552	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	26.6		15.4	Inc. frq. avg.	0.389	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 60.3 el 52.1 pa -91.3 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 145.395 -761.160 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fp..193QBF Output file: /Exps/c201d/v1/1234/No0057/fp.W.87.193QBF

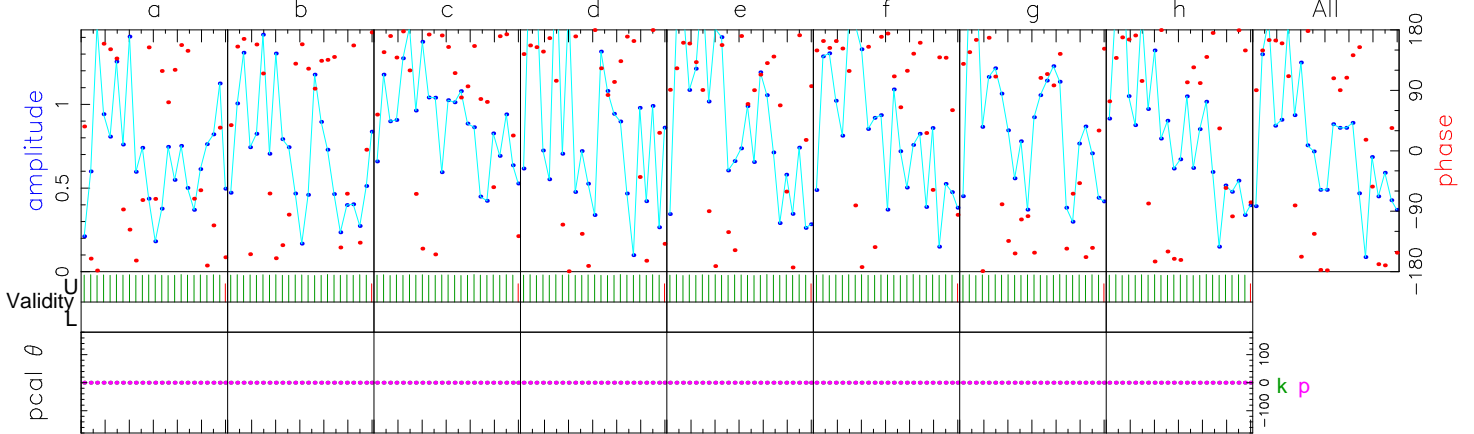


Fringe quality 7

SNR 24.7
Int time 352.239
Amp 0.482
Phase 158.2
PFD 0.0e+00
Delays (us)
SBD 0.001435
MBD 0.001416
Fringe rate (Hz) 0.001466
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122504
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-174.8	160.6	151.9	153.7	143.2	156.8	168.6	159.7	Phase	158.2
	0.3	0.4	0.5	0.6	0.6	0.5	0.5	0.5	Ampl.	0.5
	257.8	256.5	257.2	257.6	257.4	257.8	257.2	257.4	Sbd box	257.4
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-9.06712883999E+02	Apriori delay (usec)	-9.06714300229E+02	Resid mbdelay (usec)	1.41623E-03	+/-	4.4E-05
Sband delay (usec)	-9.06712864979E+02	Apriori clock (usec)	-1.7641678E+01	Resid sbdelay (usec)	1.43525E-03	+/-	3.5E-04
Phase delay (usec)	-9.06714295128E+02	Apriori clockrate (us/s)	-1.9859999E-07	Resid phdelay (usec)	5.10064E-06	+/-	1.5E-07
Delay rate (us/s)	5.74844678054E-02	Apriori rate (us/s)	5.74844507887E-02	Resid rate (us/s)	1.70167E-08	+/-	7.2E-10
Total phase (deg)	-137.6	Apriori accel (us/s/s)	2.16031603654E-06	Resid phase (deg)	158.2	+/-	4.6

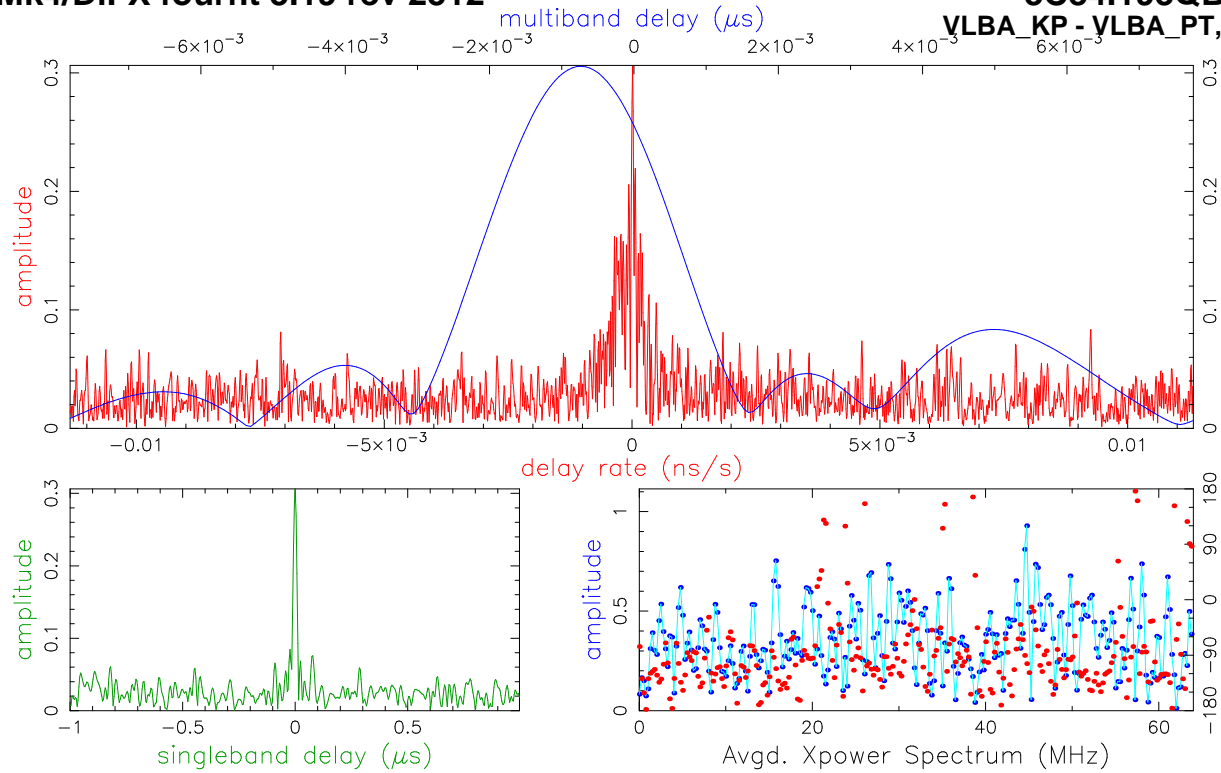
ph/seg (deg)	67.2	RMS	11.1	Theor.	11.1	Amplitude	0.482 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	95.5	Search (2048X32)	0.461	Search	0.461	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	13.7	Interp.	0.000	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	17.9	Inc. seg. avg.	0.760	Inc. seg. avg.	0.760	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011	0.011		
		Inc. frq. avg.	0.481	Inc. frq. avg.	0.481	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

k: az 61.4 el 47.0 pa -85.5 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) -436.998 -73.695 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/kp..193QBF Output file: /Exps/c201d/v1/1234/No0057/kp.W.105.193QBF

Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, kp
VLBA_KP - VLBA_PT, fgroup W, pol RR

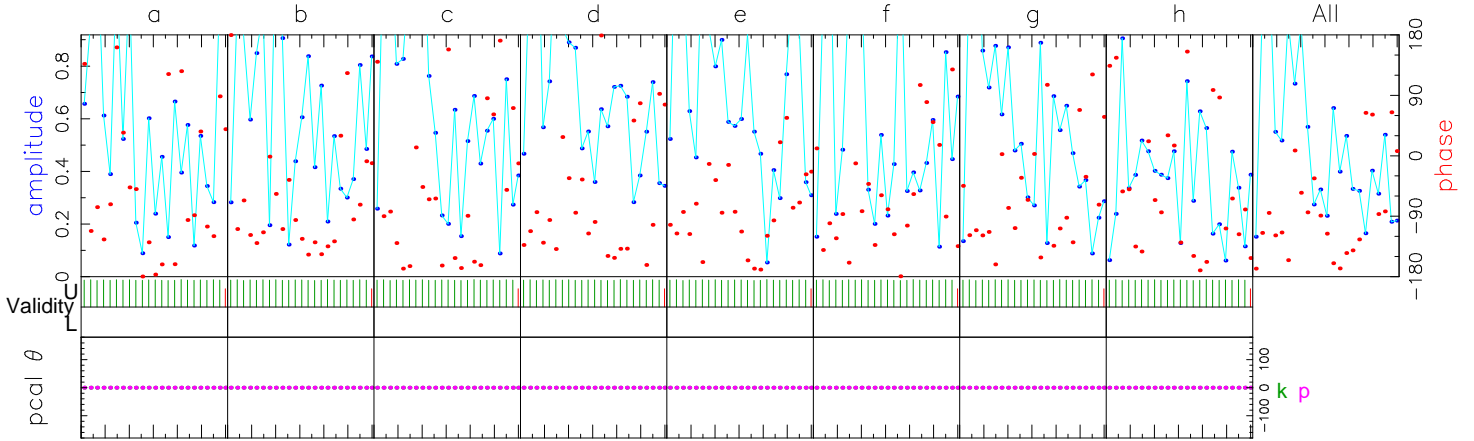


Fringe quality 9

SNR 15.7
Int time 352.238
Amp 0.306
Phase -103.7
PFD 0.0e+00
Delays (us)
SBD -0.000650
MBD -0.000748
Fringe rate (Hz) 0.001282
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122507
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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

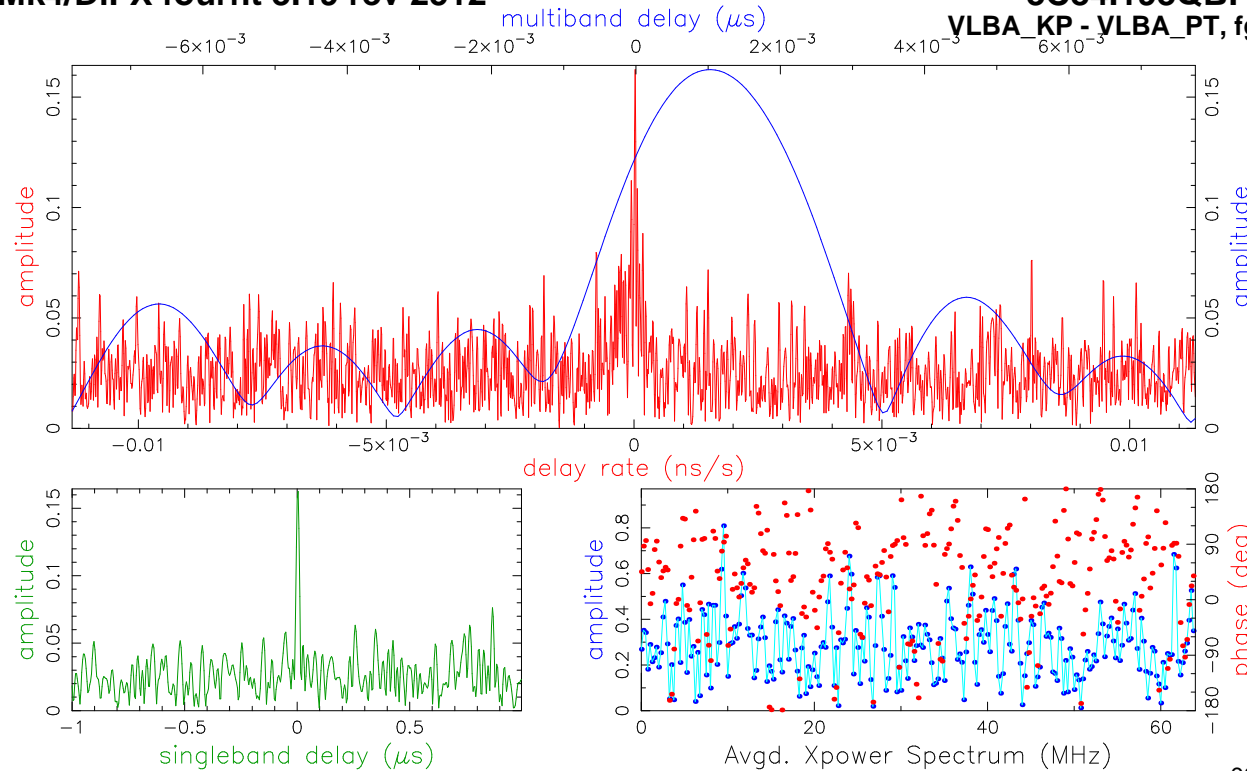


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-124.6	-100.5	-96.9	-112.4	-90.2	-106.5	-105.3	-112.5	Phase	-103.7
	0.1	0.4	0.3	0.4	0.4	0.3	0.4	0.1	Ampl.	0.3
	179.9	256.9	256.1	257.6	256.3	258.0	256.1	173.0	Sbd box	256.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-9.06715047770E+02		Apriori delay (usec)	-9.06714300229E+02	Resid mbdelay (usec)	-7.47541E-04	+/-	6.9E-05		
Sband delay (usec)	-9.06714950479E+02		Apriori clock (usec)	-1.7641678E+01	Resid sbdelay (usec)	-6.50250E-04	+/-	5.5E-04		
Phase delay (usec)	-9.06714303572E+02		Apriori clockrate (us/s)	-1.9859999E-07	Resid phdelay (usec)	-3.34368E-06	+/-	2.4E-07		
Delay rate (us/s)	5.74844656720E-02		Apriori rate (us/s)	5.74844507887E-02	Resid rate (us/s)	1.48833E-08	+/-	1.1E-09		
Total phase (deg)		-39.5	Apriori accel (us/s/s)	2.16031603654E-06	Resid phase (deg)	-103.7	+/-	7.3		

ph/seg (deg) 76.1 17.5 Search (2048X32) 0.297 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 116.8 30.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 11.8 10.3 Inc. seg. avg. 0.487 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 38.0 18.0 Inc. frq. avg. 0.304 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
k: az 61.4 el 47.0 pa -85.5 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) -436.998 -73.695 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/kp..193QBF Output file: /Exps/c201d/v1/1234/No0057/kp.W.120.193QBF

Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, kp
VLBA_KP - VLBA_PT, fgroup W, pol LR

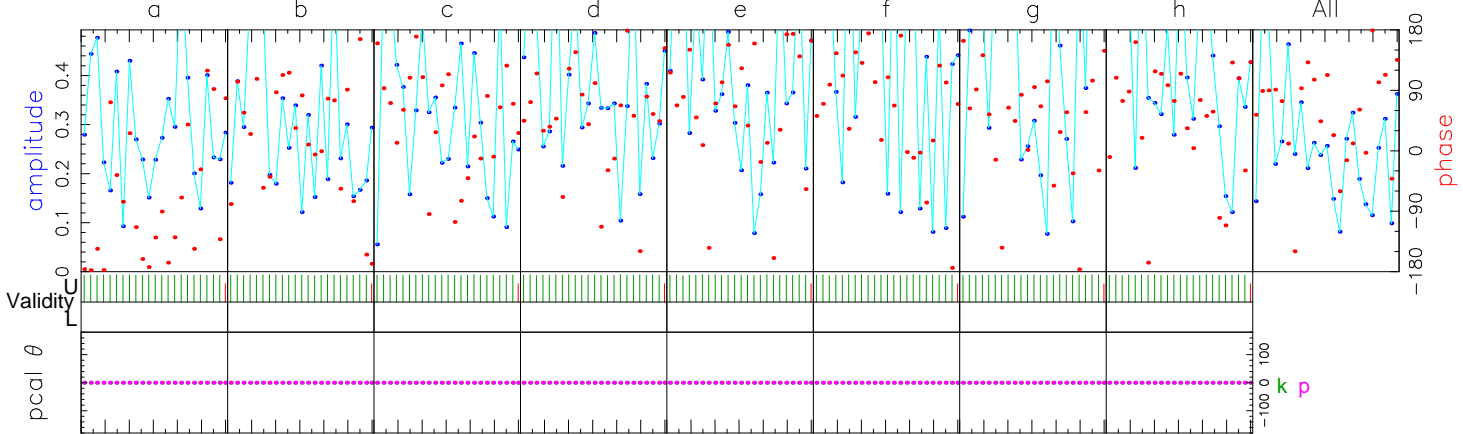


Fringe quality 9

SNR 8.4
Int time 352.238
Amp 0.164
Phase 76.5
PFD 1.2e-08
Delays (us)
SBD 0.002590
MBD 0.000983
Fringe rate (Hz) 0.001852
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122511
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-9.06713317155E+02	Apriori delay (usec)	-9.06714300229E+02	Resid mbdelay (usec)	9.83074E-04	+/-	1.3E-04
Sband delay (usec)	-9.06711710479E+02	Apriori clock (usec)	-1.7641678E+01	Resid sbdelay (usec)	2.58975E-03	+/-	1.0E-03
Phase delay (usec)	-9.06714297760E+02	Apriori clockrate (us/s)	-1.9859999E-07	Resid phdelay (usec)	2.46827E-06	+/-	4.4E-07
Delay rate (us/s)	5.74844722935E-02	Apriori rate (us/s)	5.74844507887E-02	Resid rate (us/s)	2.15047E-08	+/-	2.1E-09
Total phase (deg)	-219.3	Apriori accel (us/s/s)	2.16031603654E-06	Resid phase (deg)	76.5	+/-	13.6

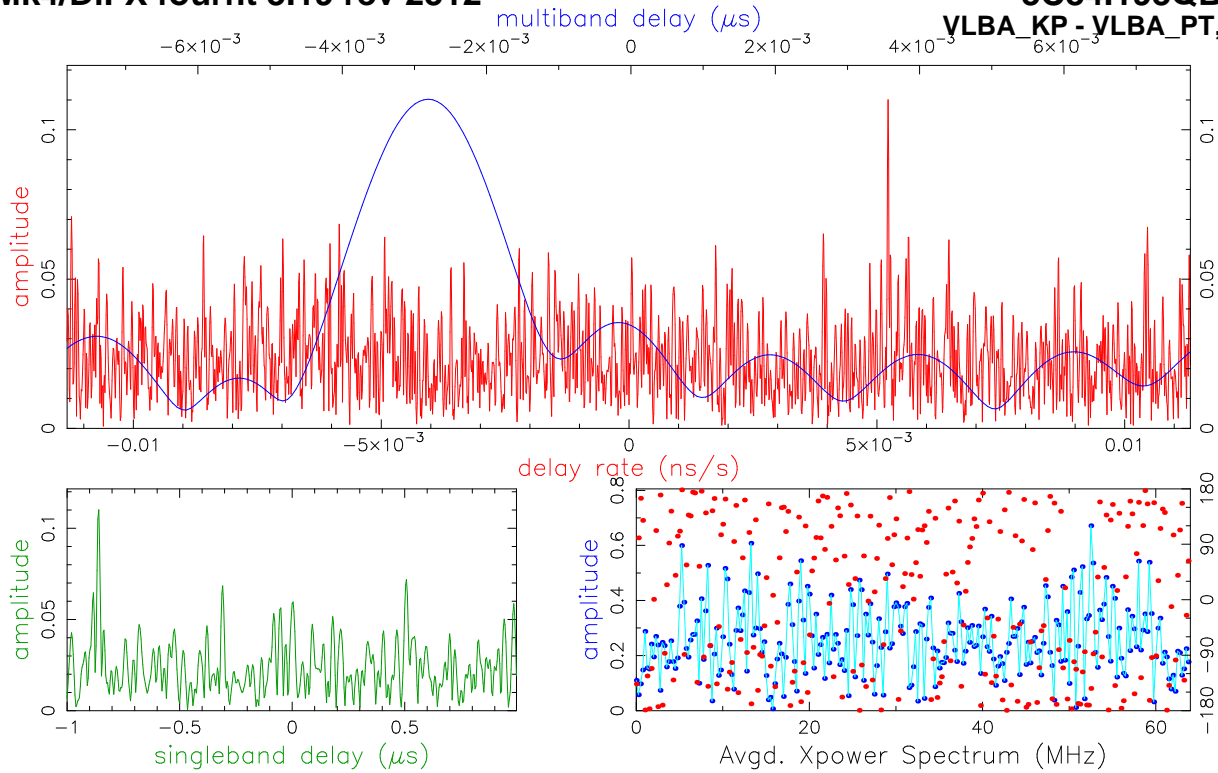
ph/seg (deg)	66.1	Theor.	32.6	Amplitude	0.164 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	95.6		56.8	Search (2048X32)	0.162	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	61.1		19.2	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	39.0		33.5	Inc. seg. avg.	0.224	Sample rate(MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.177	Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

k: az 61.4 el 47.0 pa -85.5 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) -436.998 -73.695 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/kp..193QBF Output file: /Exps/c201d/v1/1234/No0057/kp.W.138.193QBF

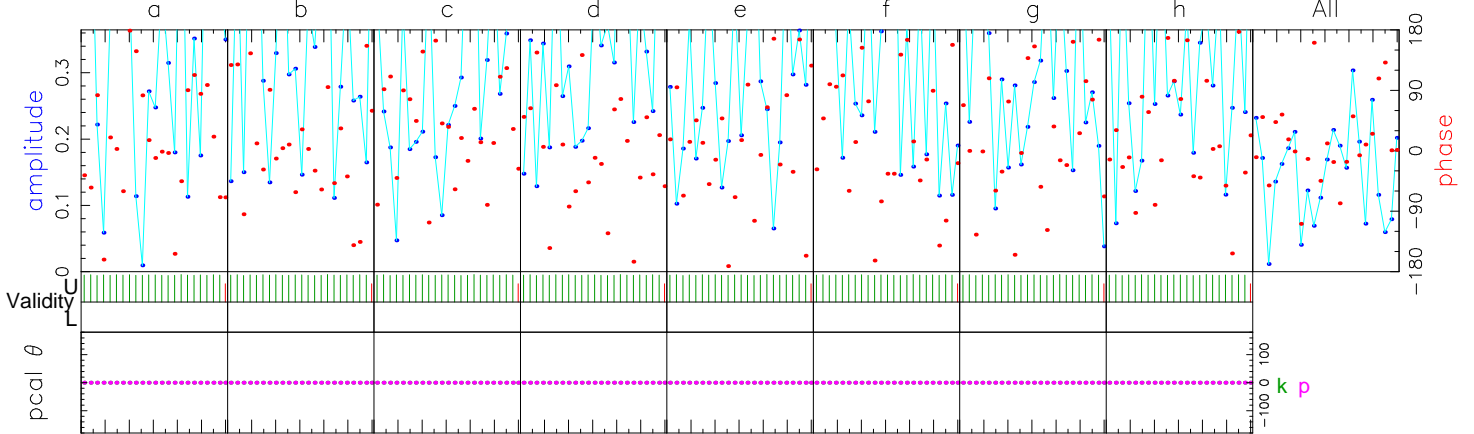
Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, kp
VLBA_KP - VLBA_PT, fgroup W, pol RL



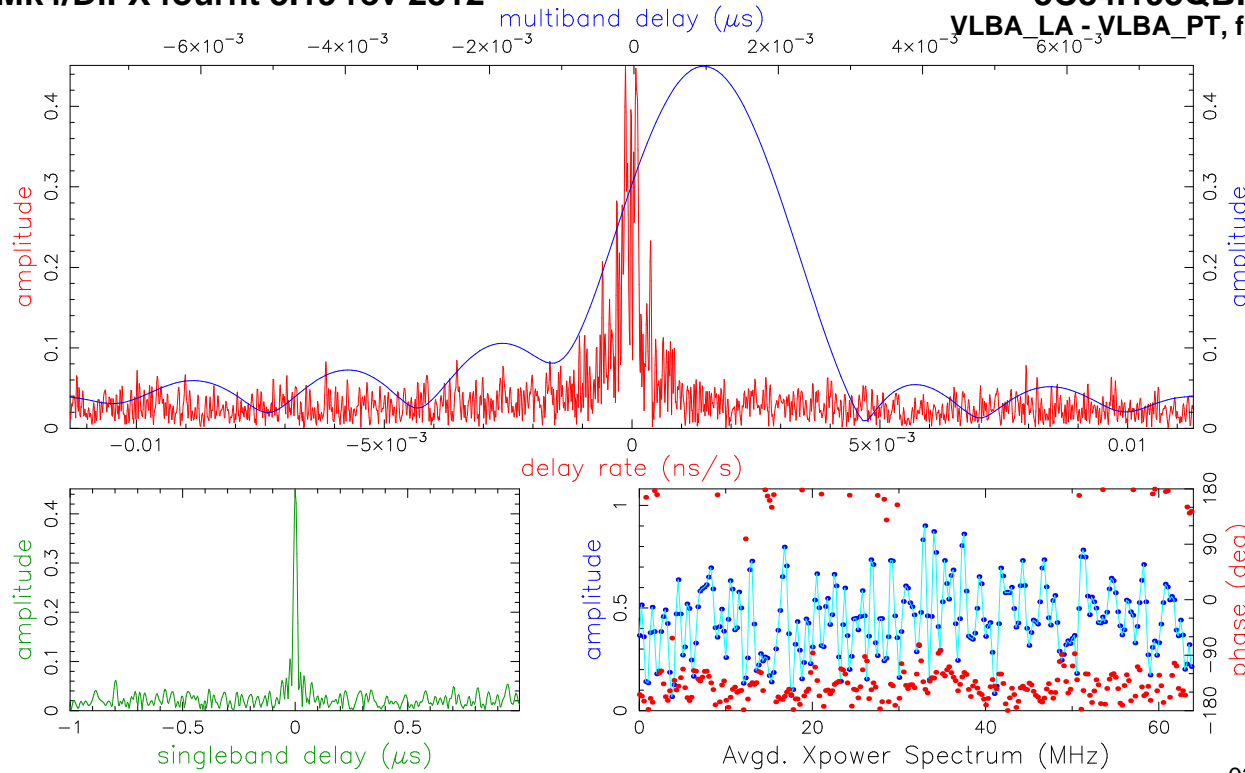
Fringe quality 0
SNR 5.7
Int time 352.238
Amp 0.122
Phase 11.2
PFD 9.4e-01
Delays (us)
SBD -0.860555
MBD -0.002876
Fringe rate (Hz) 0.451090
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122514
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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



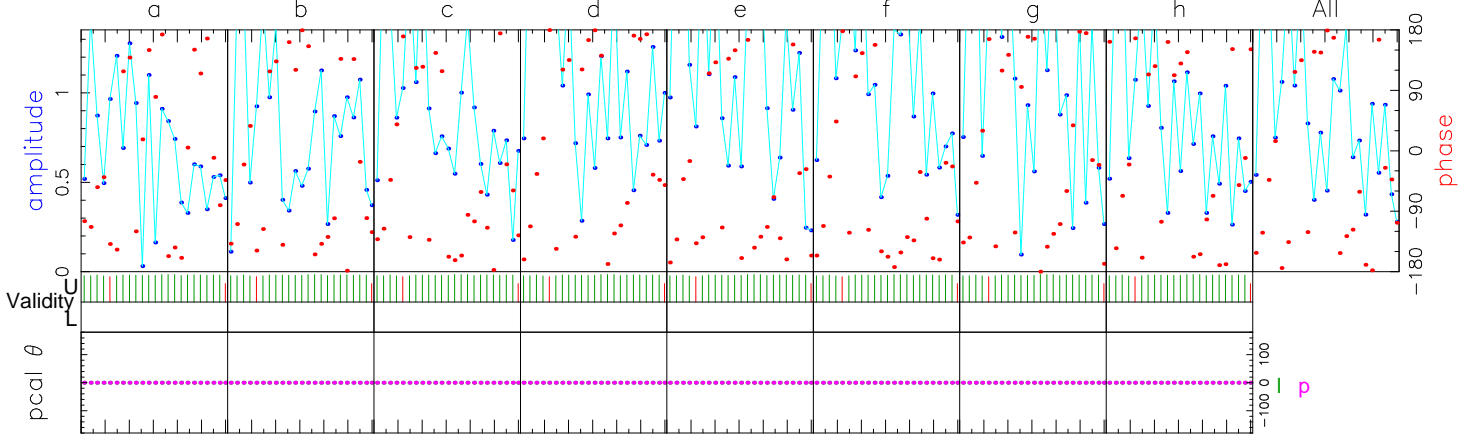
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-9.07576551216E+02									
Sband delay (usec)	-9.07574855479E+02									
Phase delay (usec)	-9.06714299868E+02									
Delay rate (us/s)	5.74896874979E-02									
Total phase (deg)			-284.6							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
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)										
simultaneous interpolator										

k: az 61.4 el 47.0 pa -85.5 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) -436.998 -73.695
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/kp..193QBF Output file: /Exps/c201d/v1/1234/No0057/kp.W.153.193QBF



Fringe quality 9
SNR 23.1
Int time 350.706
Amp 0.451
Phase -147.9
PFD 0.0e+00
Delays (us)
SBD 0.000632
MBD 0.000987
Fringe rate (Hz)
-0.011294
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122514
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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

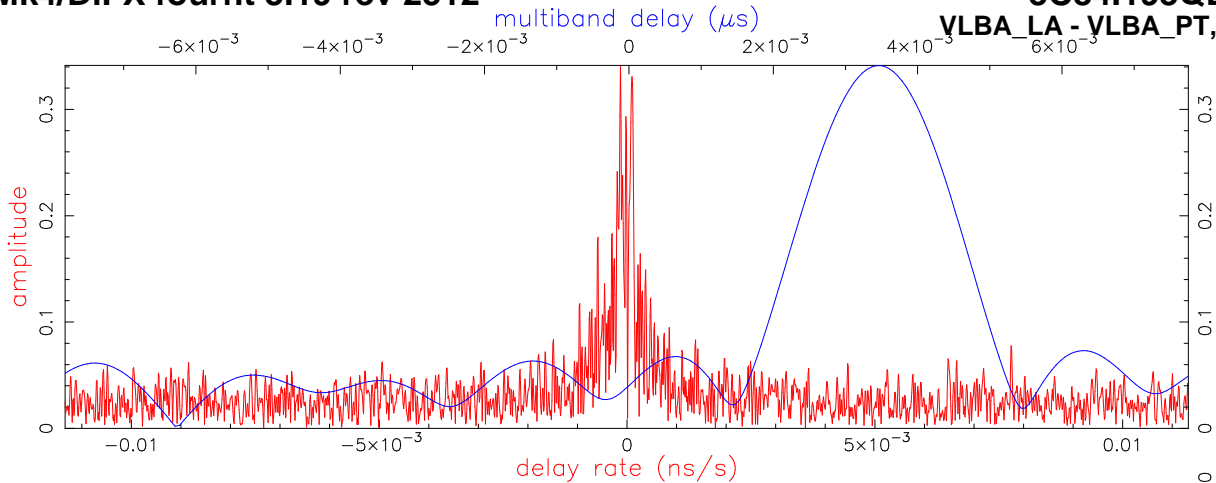


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	4.35329728944E+02				4.35328742292E+02				9.88651E-04	+/- 4.7E-05
Sband delay (usec)	4.35329374292E+02				-2.1031590E+01				6.32000E-04	+/- 3.7E-04
Phase delay (usec)	4.35328737522E+02				-3.5499999E-07				-4.76994E-06	+/- 1.6E-07
Delay rate (us/s)	-3.35441227962E-02				-3.35439916791E-02				-1.31117E-07	+/- 7.7E-10
Total phase (deg)			162.1		-8.52622816991E-07				-147.9	+/- 5.0
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) 68.3 11.9 Search (2048X32) 0.448 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 148.2 20.8 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 10.0 7.0 Inc. seg. avg. 0.910 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 21.6 12.2 Inc. frq. avg. 0.451 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 66.2 el 52.6 pa -83.2 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 255.491 78.160 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/lp..193QBF Output file: /Exps/c201d/v1/1234/No0057/lp.W.154.193QBF

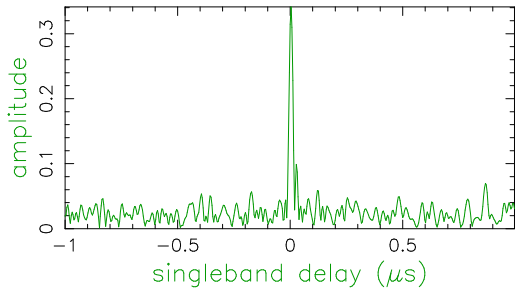
Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, lp
VLBA_LA - VLBA_PT, fgroup W, pol RR

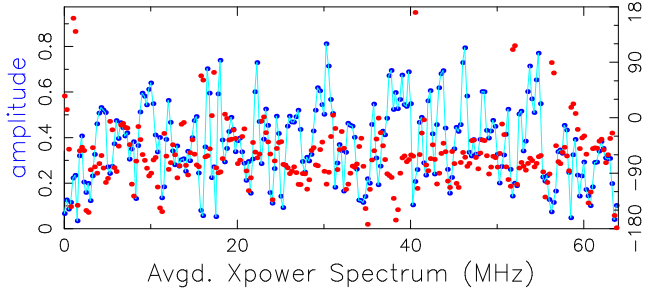


Fringe quality 9

SNR 17.5
Int time 350.706
Amp 0.341
Phase -63.5
PFD 0.0e+00
Delays (us)
SBD 0.003767
MBD 0.003457
Fringe rate (Hz)
-0.011557
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

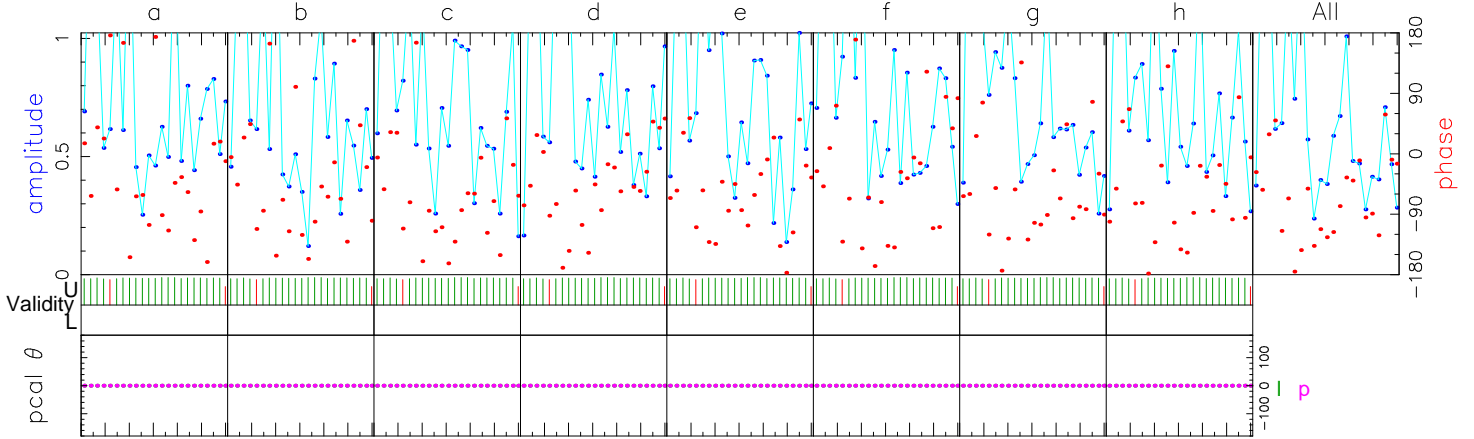


delay rate (ns/s)



Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122518
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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

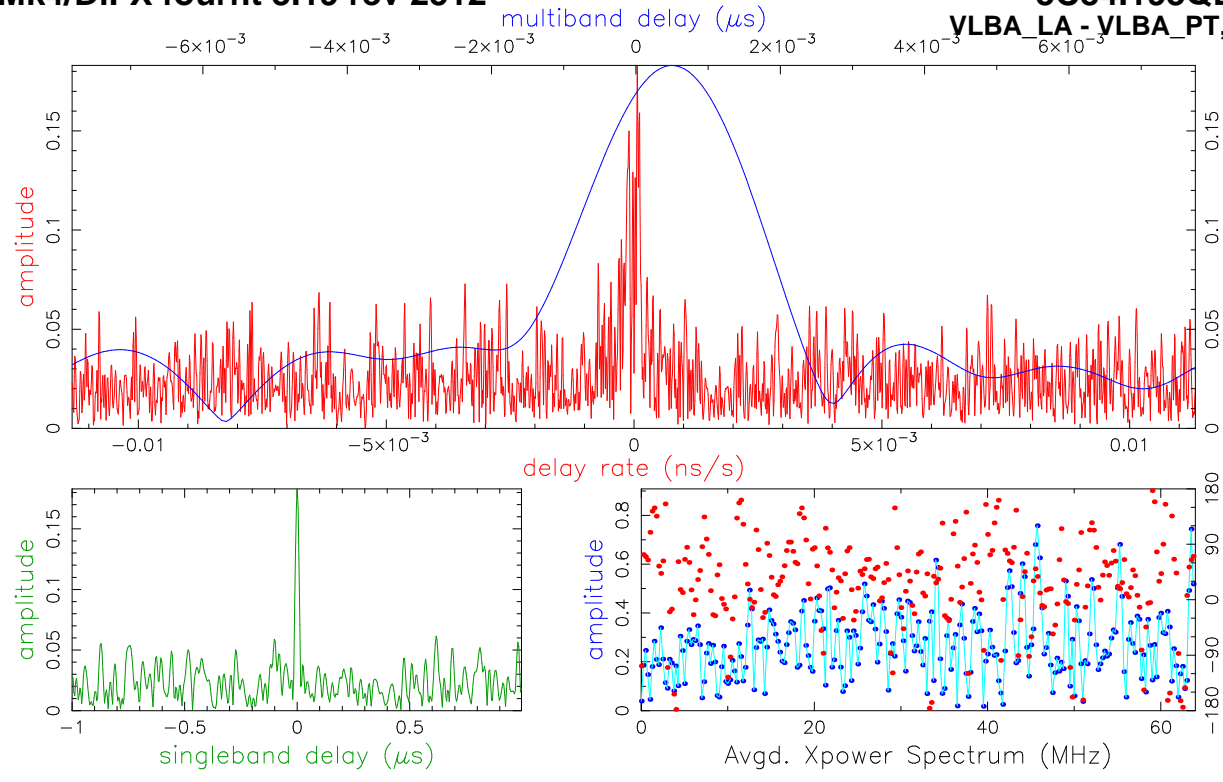


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	4.35332198944E+02	Apriori delay (usec)	4.35328742292E+02	Resid mbdelay (usec)	3.45665E-03	+/-	6.2E-05
Sband delay (usec)	4.35332509542E+02	Apriori clock (usec)	-2.1031590E+01	Resid sbdelay (usec)	3.76725E-03	+/-	4.9E-04
Phase delay (usec)	4.35328740244E+02	Apriori clockrate (us/s)	-3.5499999E-07	Resid phdelay (usec)	-2.04814E-06	+/-	2.1E-07
Delay rate (us/s)	-3.35441258494E-02	Apriori rate (us/s)	-3.35439916791E-02	Resid rate (us/s)	-1.34170E-07	+/-	1.0E-09
Total phase (deg)	246.5	Apriori accel (us/s/s)	-8.52622816991E-07	Resid phase (deg)	-63.5	+/-	6.6

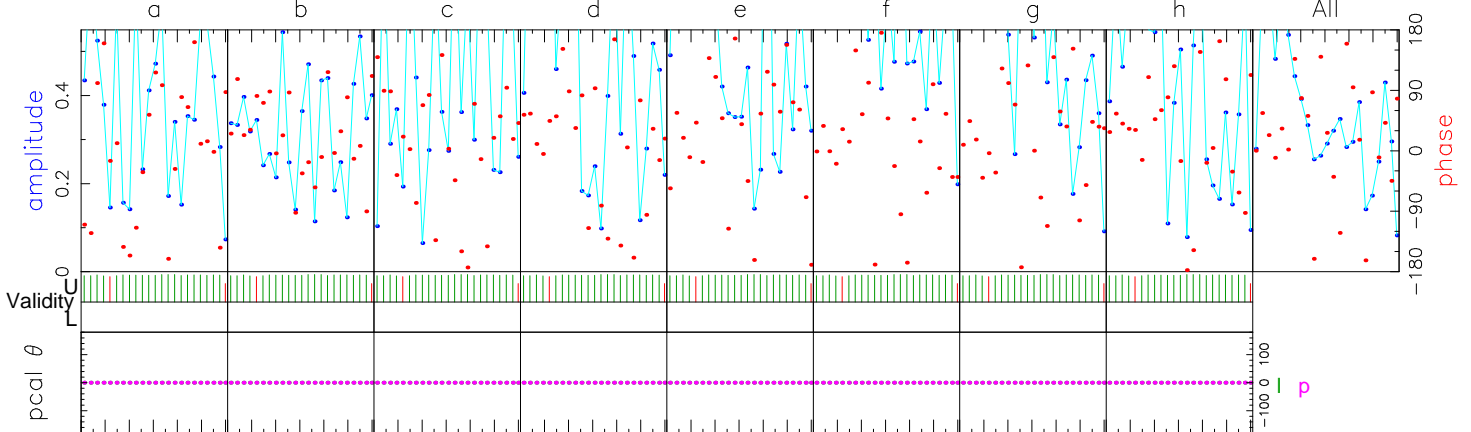
ph/seg (deg)	62.1	RMS	15.7	Theor.	15.7	Amplitude	0.341 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	152.6	Search (2048X32)	0.339	sb window (us)	-1.000	1.000		Pcal rate:	0.000E+00, 0.000E+00 (us/s)	mb window (us)	-0.008 0.008
ph/frq (deg)	9.9	Interp.	0.000	dr window (ns/s)	-0.011	0.011		Bits/sample:	2x2	SampCntNorm: enabled	
amp/frq (%)	12.9	Inc. seg. avg.	0.657	ion window (TEC)	0.00	0.00		Sample rate (MSamp/s):	128	nlags:	256
		Inc. frq. avg.	0.341					Data rate (Mb/s):	2048	t_cohere	infinite

l: az 66.2 el 52.6 pa -83.2 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 255.491 78.160 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/lp..193QBF Output file: /Exps/c201d/v1/1234/No0057/lp.W.169.193QBF



Fringe quality 9
SNR 9.4
Int time 350.706
Amp 0.183
Phase 36.4
PFD 2.8e-12
Delays (us)
SBD -0.000079
MBD 0.000497
Fringe rate (Hz) 0.006205
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122522
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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

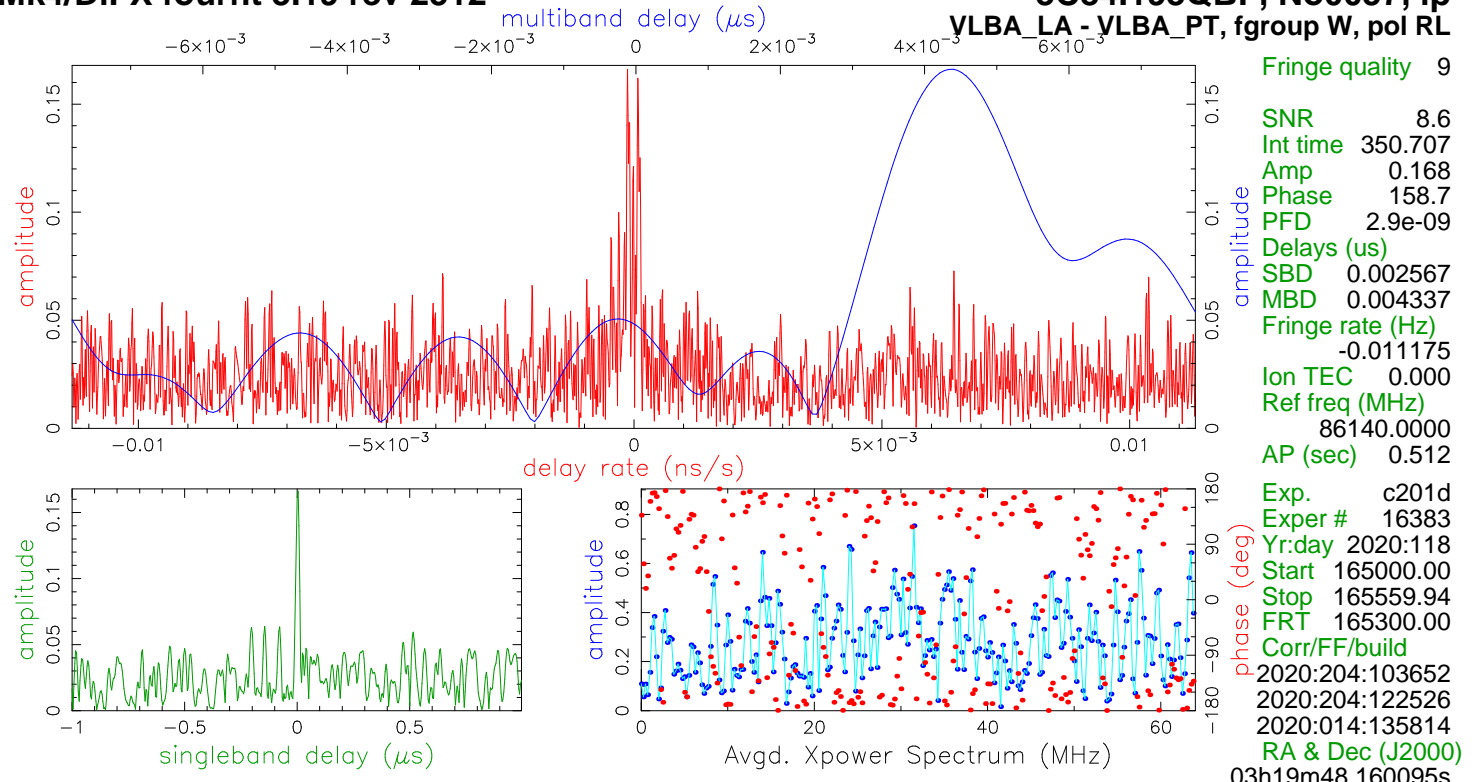


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		4.35329239722E+02			4.35328742292E+02				4.97430E-04	+/- 1.2E-04
Sband delay (usec)		4.35328663792E+02			-2.1031590E+01				-7.85000E-05	+/- 9.2E-04
Phase delay (usec)		4.35328743465E+02			-3.5499999E-07				1.17274E-06	+/- 3.9E-07
Delay rate (us/s)		-3.35439196450E-02			-3.35439916791E-02				7.20341E-08	+/- 1.9E-09
Total phase (deg)			346.3		-8.52622816991E-07				36.4	+/- 12.2
	RMS	Theor.	Amplitude	0.183 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	79.7	29.3	Search (2048X32)	0.174	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	127.6	51.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	15.8	17.3	Inc. seg. avg.	0.320	Sample rate(MSamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	42.0	30.2	Inc. frq. avg.	0.181	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

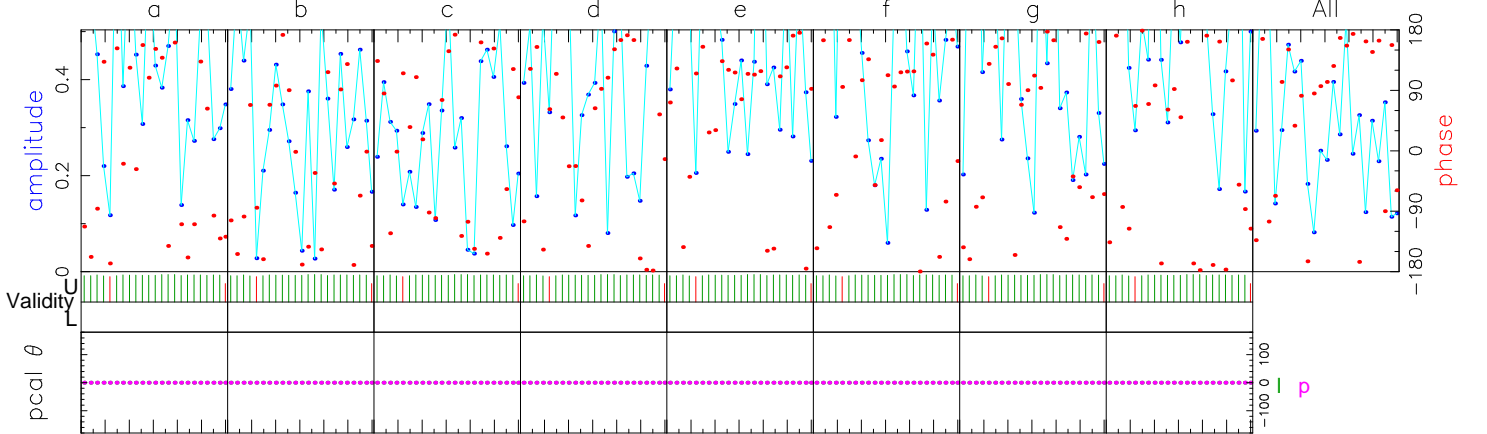
l: az 66.2 el 52.6 pa -83.2 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 255.491 78.160 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/lp..193QBF Output file: /Exps/c201d/v1/1234/No0057/lp.W.185.193QBF

Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, Ip
VLBA_LA - VLBA_PT, fgroup W, pol RL



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	174.8	176.8	170.4	122.3	127.2	154.5	-175.8	173.5	Phase	158.7
	0.2	0.1	0.1	0.1	0.3	0.2	0.2	0.2	Ampl.	0.2
	204.4	186.1	283.2	236.3	257.8	257.3	258.0	258.7	Sbd box	257.7
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
lp	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.35333079350E+02		Apriori delay (usec)		4.35328742292E+02		Resid mbdelay (usec)		4.33706E-03	+/- 1.3E-04
Sband delay (usec)	4.35331309042E+02		Apriori clock (usec)		-2.1031590E+01		Resid sbdelay (usec)		2.56675E-03	+/- 1.0E-03
Phase delay (usec)	4.35328747409E+02		Apriori clockrate (us/s)		-3.5499999E-07		Resid phdelay (usec)		5.11710E-06	+/- 4.3E-07
Delay rate (us/s)	-3.35441214110E-02		Apriori rate (us/s)		-3.35439916791E-02		Resid rate (us/s)		-1.29732E-07	+/- 2.1E-09
Total phase (deg)	108.7		Apriori accel (us/s/s)		-8.52622816991E-07		Resid phase (deg)		158.7	+/- 13.3

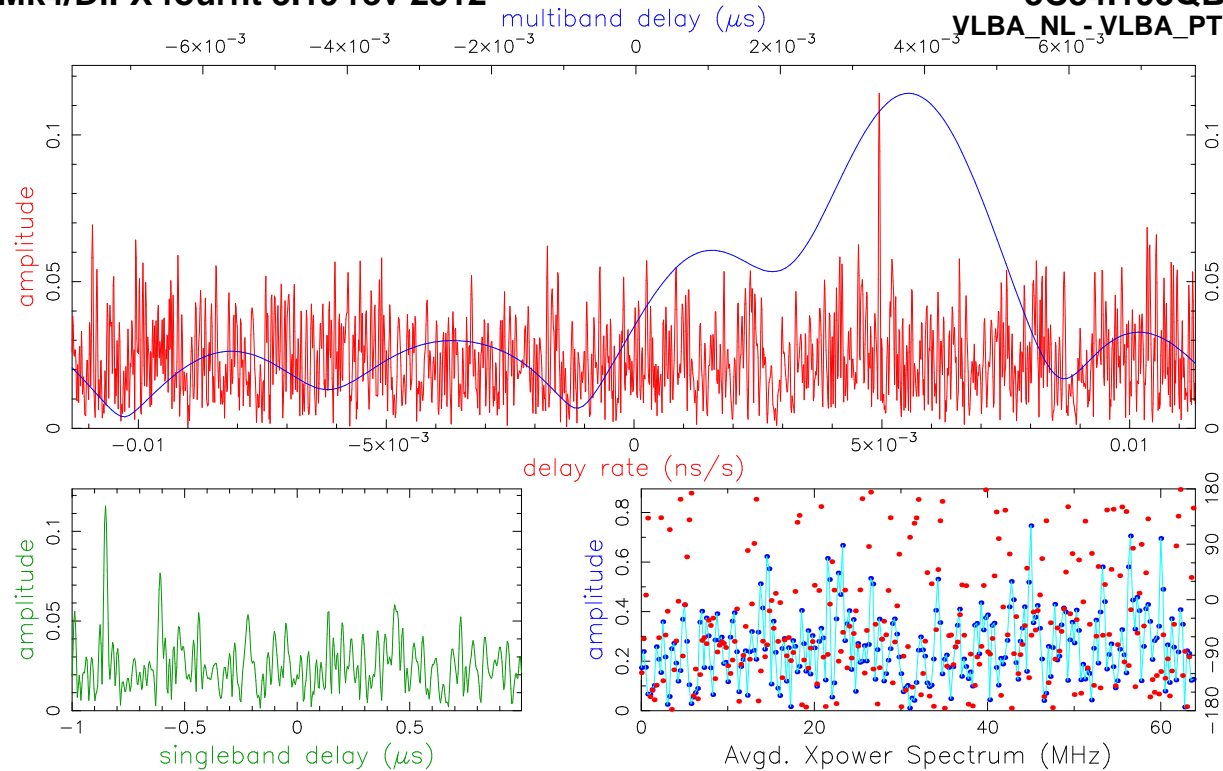
ph/seg (deg) 66.0 32.0 Amplitude 0.168 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 126.0 55.8 Search (2048X32) 0.163 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.6 18.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.1 32.9 Inc. seg. avg. 0.271 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.170 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 66.2 el 52.6 pa -83.2 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 255.491 78.160 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/lp..193QBF Output file: /Exps/c201d/v1/1234/No0057/lp.W.203.193QBF

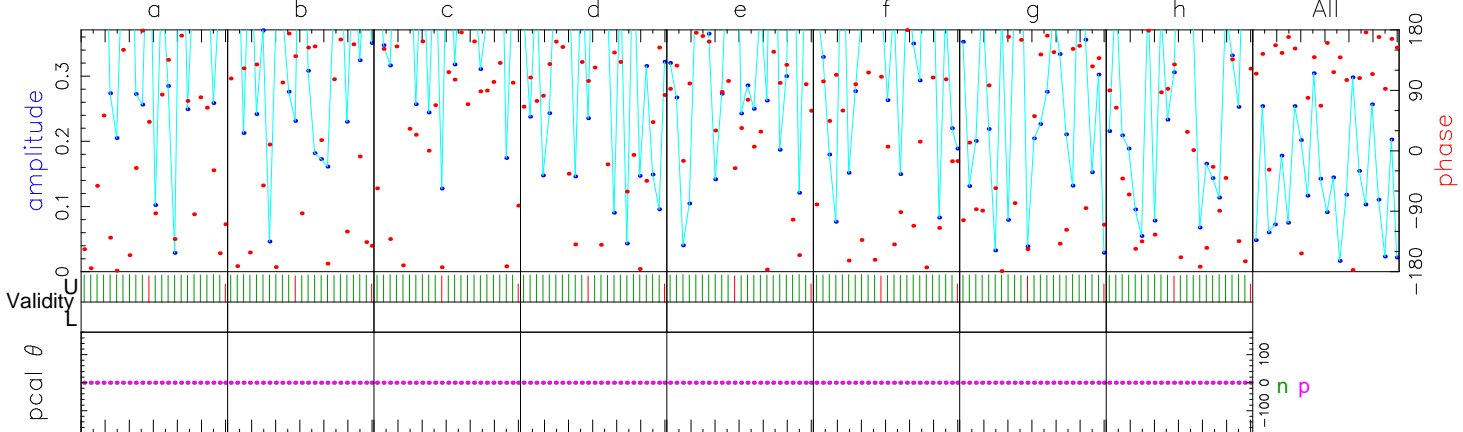
Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, np
VLBA_NL - VLBA_PT, fgroup W, pol LL



Fringe quality 0
SNR 5.9
Int time 353.058
Amp 0.124
Phase 143.8
PFD 6.8e-01
Delays (us)
SBD -0.851703
MBD 0.003774
Fringe rate (Hz)
0.427221
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122519
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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

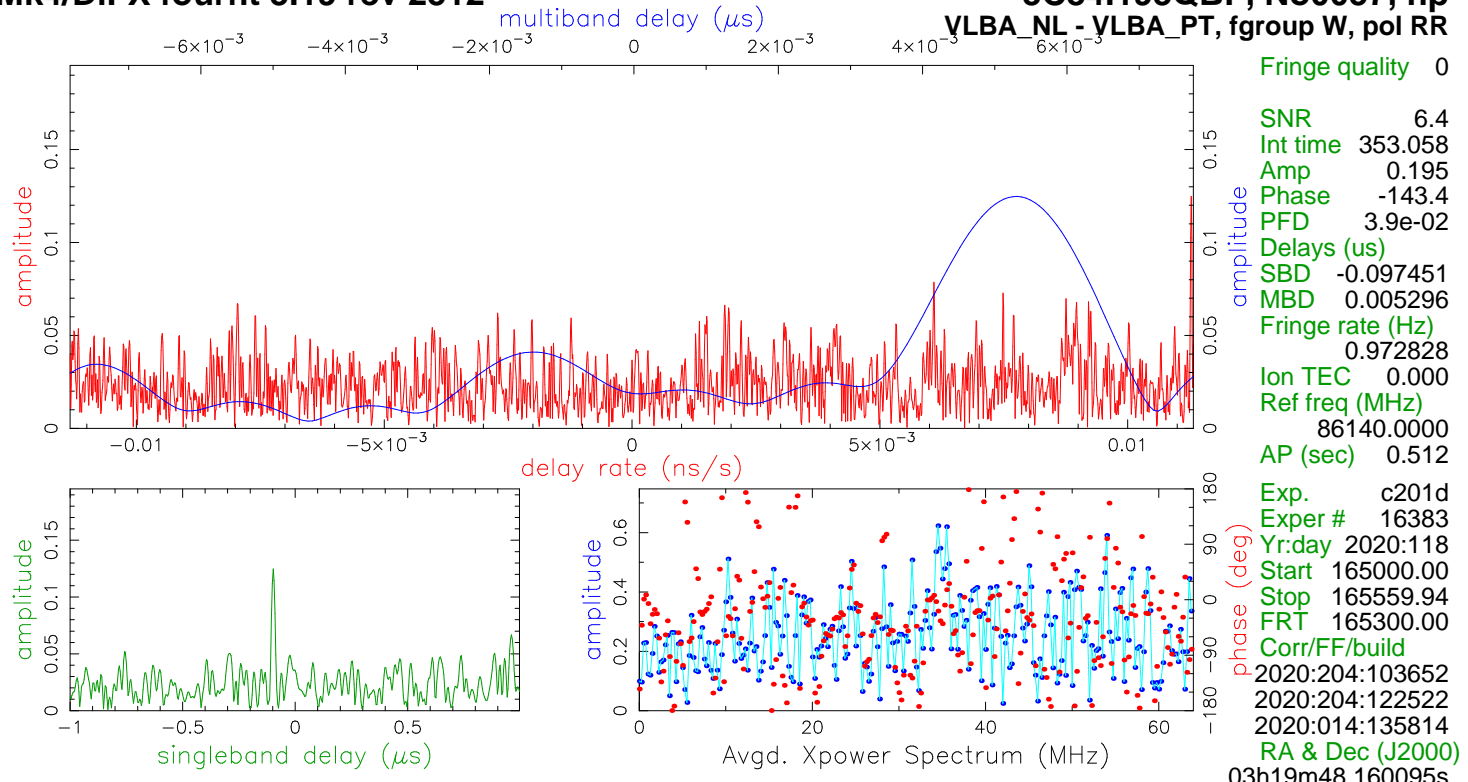


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

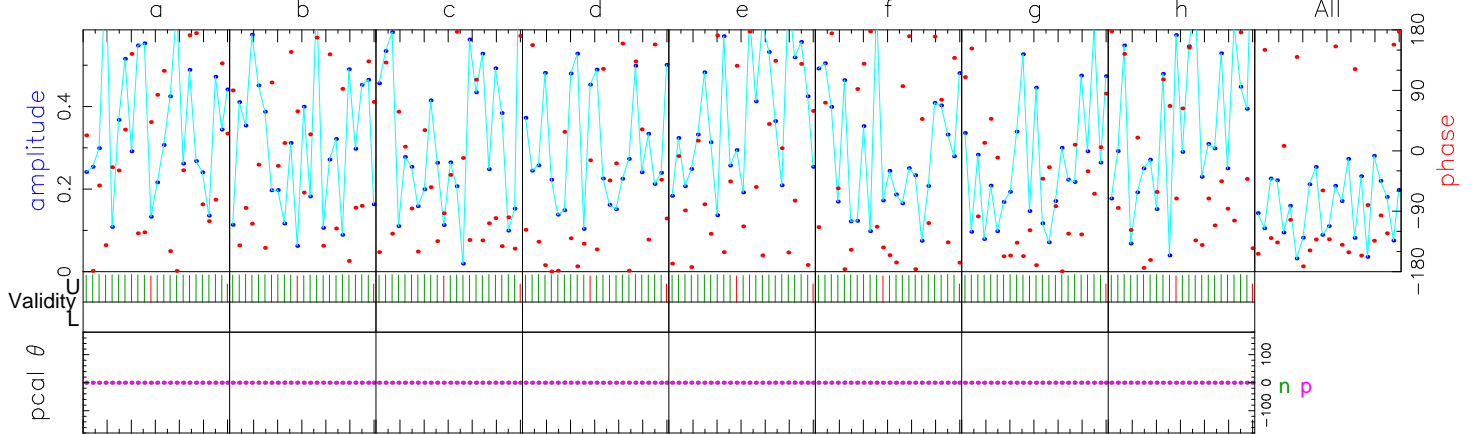
Group delay (usec)(sbd)	2.85033752893E+03	Apriori delay (usec)	2.85119313001E+03	Resid mbdelay (usec)	3.77392E-03	+/-	1.8E-04
Sband delay (usec)	2.85034142676E+03	Apriori clock (usec)	1.5024176E+01	Resid sbdelay (usec)	-8.51703E-01	+/-	1.5E-03
Phase delay (usec)	2.85119313465E+03	Apriori clockrate (us/s)	1.2999999E-07	Resid phdelay (usec)	4.63866E-06	+/-	6.3E-07
Delay rate (us/s)	-2.59349537756E-01	Apriori rate (us/s)	-2.59354497367E-01	Resid rate (us/s)	4.95961E-06	+/-	3.0E-09
Total phase (deg)	222.9	Apriori accel (us/s/s)	-7.41252318574E-06	Resid phase (deg)	143.8	+/-	19.5

ph/seg (deg)	50.2	RMS	46.8	Theor.	Amplitude	0.124 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	79.6	50.2	46.8	Search (2048X32)	0.113	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	32.3	79.6	81.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	45.2	32.3	27.6	Inc. seg. avg.	0.116	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011		
		45.2	48.2	Inc. frq. avg.	0.127	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

n: az 79.2 el 65.3 pa -78.1 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 1975.165 148.713 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/np..193QBF Output file: /Exps/c201d/v1/1234/No0057/np.W.171.193QBF



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

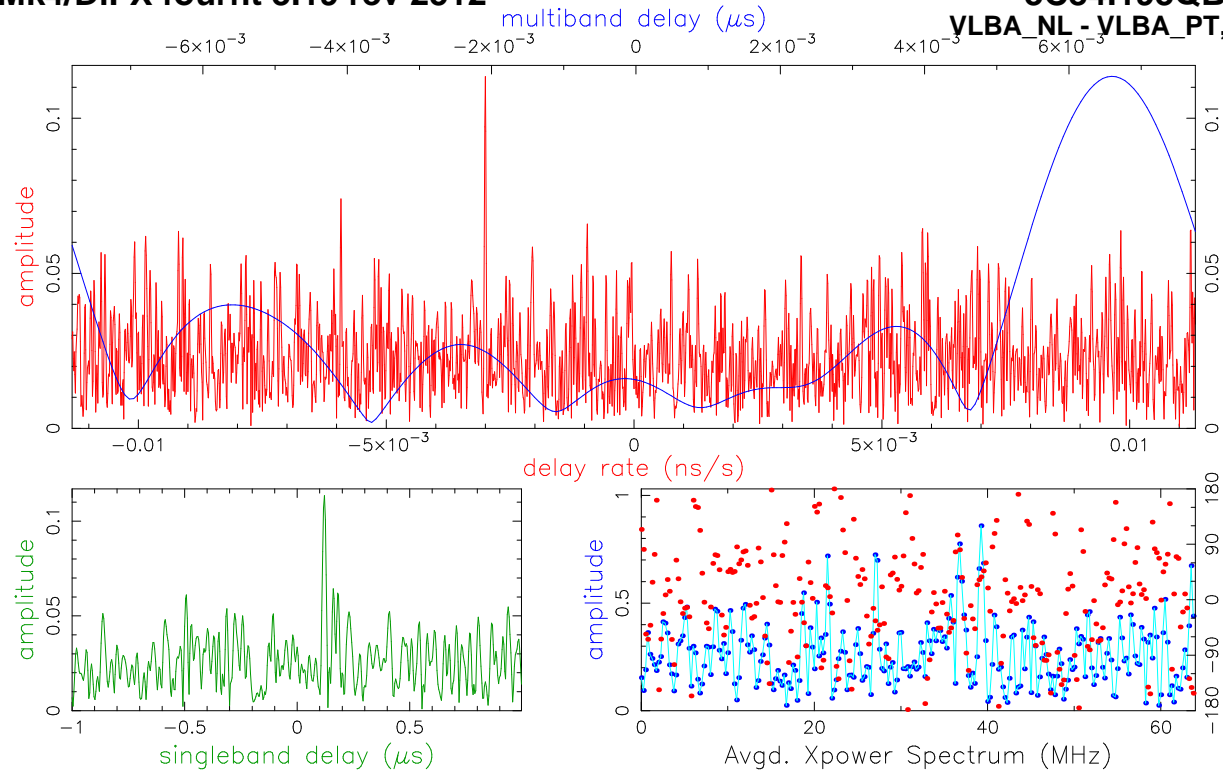


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	2.85108905102E+03					2.85119313001E+03			5.29600E-03	+/- 1.7E-04
Sband delay (usec)	2.85109567876E+03					1.5024176E+01			-9.74512E-02	+/- 1.3E-03
Phase delay (usec)	2.85119312539E+03					1.2999999E-07			-4.62443E-06	+/- 5.8E-07
Delay rate (us/s)	-2.59343203794E-01					-2.59354497367E-01			1.12936E-05	+/- 2.8E-09
Total phase (deg)			-64.4			-7.41252318574E-06			-143.4	+/- 17.9
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
SampCntNorm: enabled										
nlags: 256 t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 54.6 42.9 Search (2048X32) 0.123 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 65.9 74.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 19.0 25.3 Inc. seg. avg. 0.195 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 22.7 44.1 Inc. frq. avg. 0.186 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 79.2 el 65.3 pa -78.1 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 1975.165 148.713 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/np..193QBF Output file: /Exps/c201d/v1/1234/No0057/np.W.186.193QBF

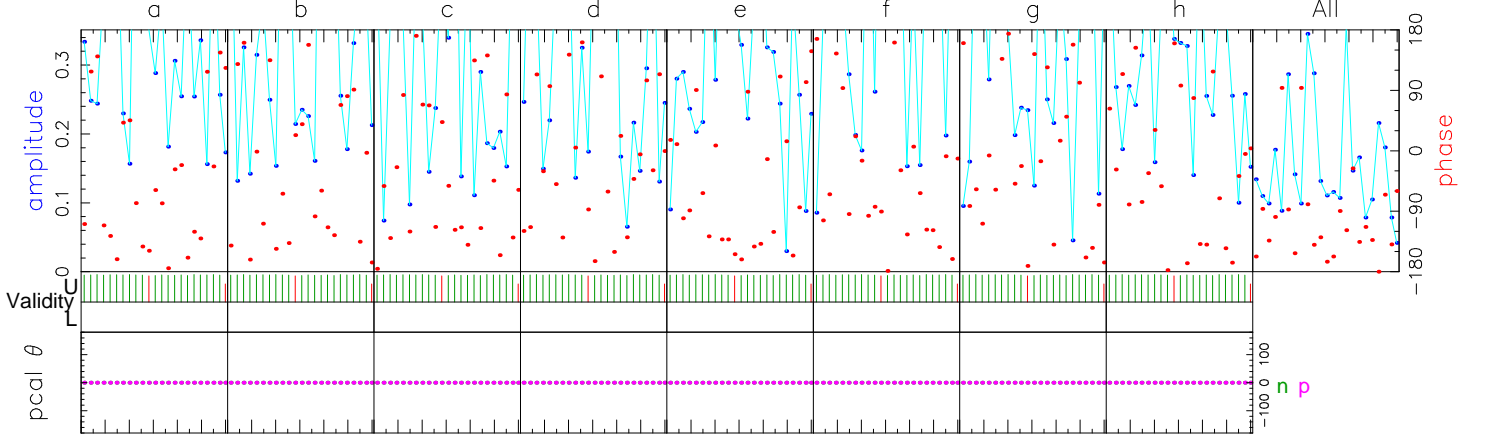
Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, np
VLBA_NL - VLBA_PT, fgroup W, pol LR



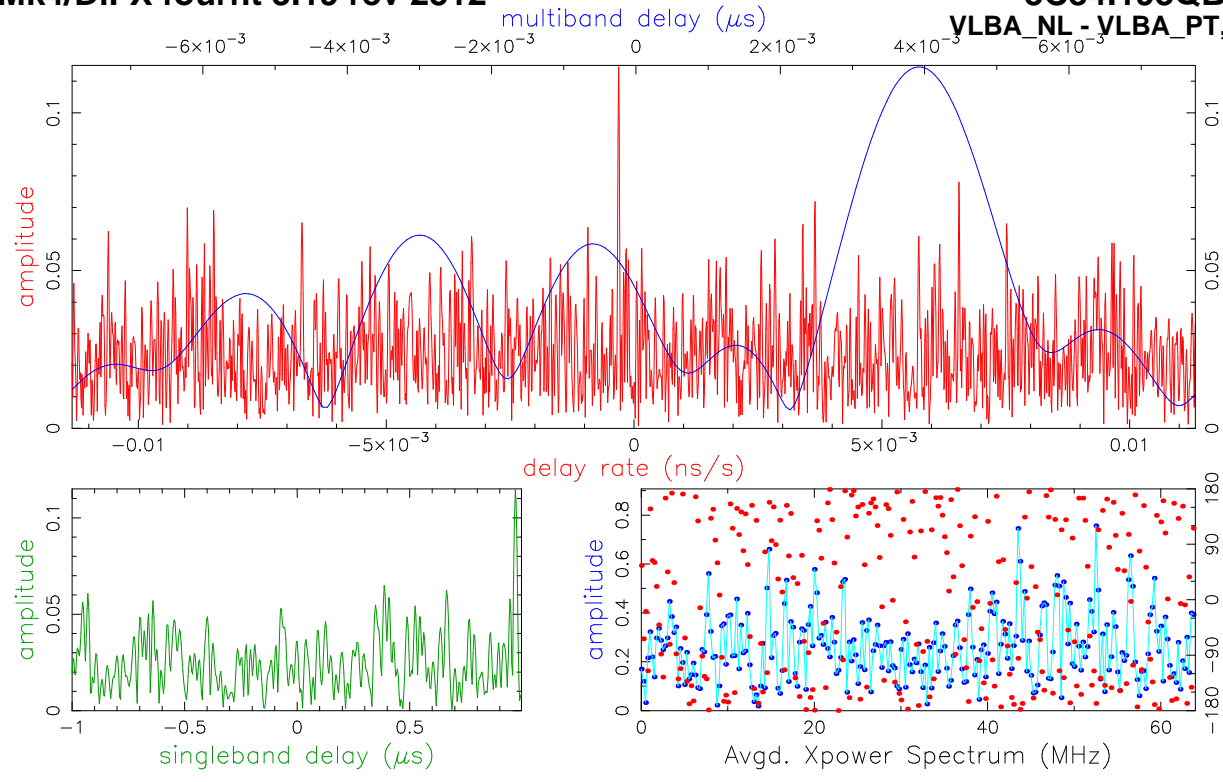
Fringe quality 0
SNR 5.8
Int time 353.058
Amp 0.117
Phase -118.4
PFD 7.3e-01
Delays (us)
SBD 0.120499
MBD 0.006558
Fringe rate (Hz)
-0.258535
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122527
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



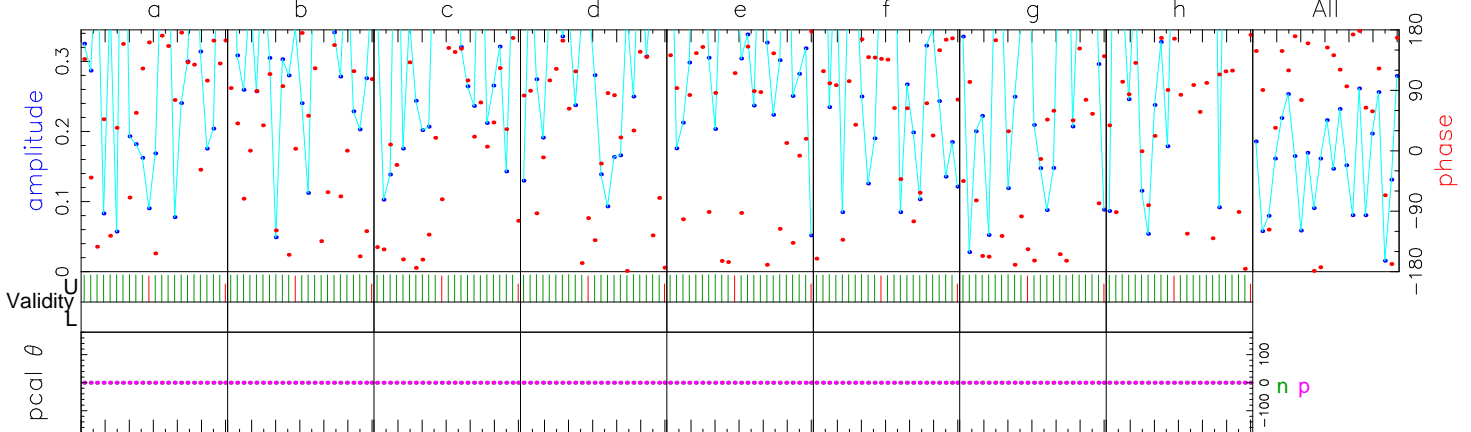
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-117.9	-113.5	-127.7	-132.8	-128.4	-105.5	-99.1	-129.1	Phase	-118.4
	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	Ampl.	0.1
	281.9	86.2	18.4	177.7	175.9	22.7	123.8	397.8	Sbd box	287.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.85130906276E+03		Apriori delay (usec)		2.85119313001E+03		Resid mbdelay (usec)		6.55775E-03	+/- 1.9E-04
Sband delay (usec)	2.85131362901E+03		Apriori clock (usec)		1.5024176E+01		Resid sbdelay (usec)		1.20499E-01	+/- 1.5E-03
Phase delay (usec)	2.85119312620E+03		Apriori clockrate (us/s)		1.2999999E-07		Resid phdelay (usec)		-3.81763E-06	+/- 6.3E-07
Delay rate (us/s)	-2.59357498697E-01		Apriori rate (us/s)		-2.59354497367E-01		Resid rate (us/s)		-3.00133E-06	+/- 3.0E-09
Total phase (deg)			Apriori accel (us/s/s)		-7.41252318574E-06		Resid phase (deg)		-118.4	+/- 19.6

ph/seg (deg) 57.4 47.0 Search (2048X32) 0.111 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 83.7 82.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 13.4 27.7 Inc. seg. avg. 0.122 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 37.2 48.4 Inc. frq. avg. 0.106 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
n: az 79.2 el 65.3 pa -78.1 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 1975.165 148.713 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/np..193QBF Output file: /Exps/c201d/v1/1234/No0057/np.W.208.193QBF

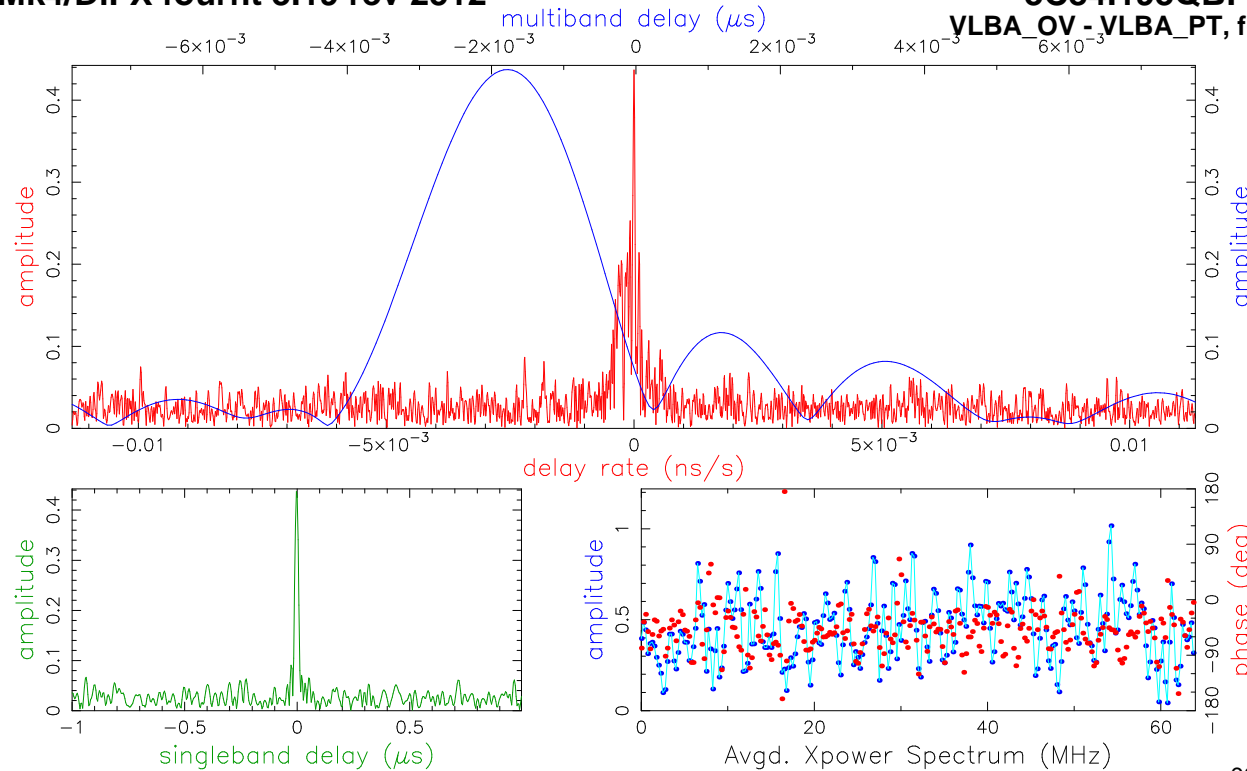


Fringe quality 0
SNR 5.9
Int time 353.058
Amp 0.115
Phase 140.8
PFD 5.9e-01
Delays (us)
SBD 0.969543
MBD 0.003957
Fringe rate (Hz)
-0.026638
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122530
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	158.3	93.4	125.3	150.4	144.6	112.4	-166.1	136.9		
Sband delay (usec)	0.2	0.0	0.1	0.1	0.1	0.2	0.1	0.2		
Phase delay (usec)	140.5	390.7	314.1	239.7	436.8	94.1	85.1	108.6		
Delay rate (us/s)										
Total phase (deg)			219.8							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
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										
RMS	59.1	46.5								
Theor.										
Amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
ph/seg (deg)										
amp/seg (%)										
ph/frq (deg)										
amp/frq (%)										
n: az 79.2 el 65.3 pa -78.1										
p: az 64.2 el 50.6 pa -84.3										
u, v (fr/asec) 1975.165 148.713										
simultaneous interpolator										

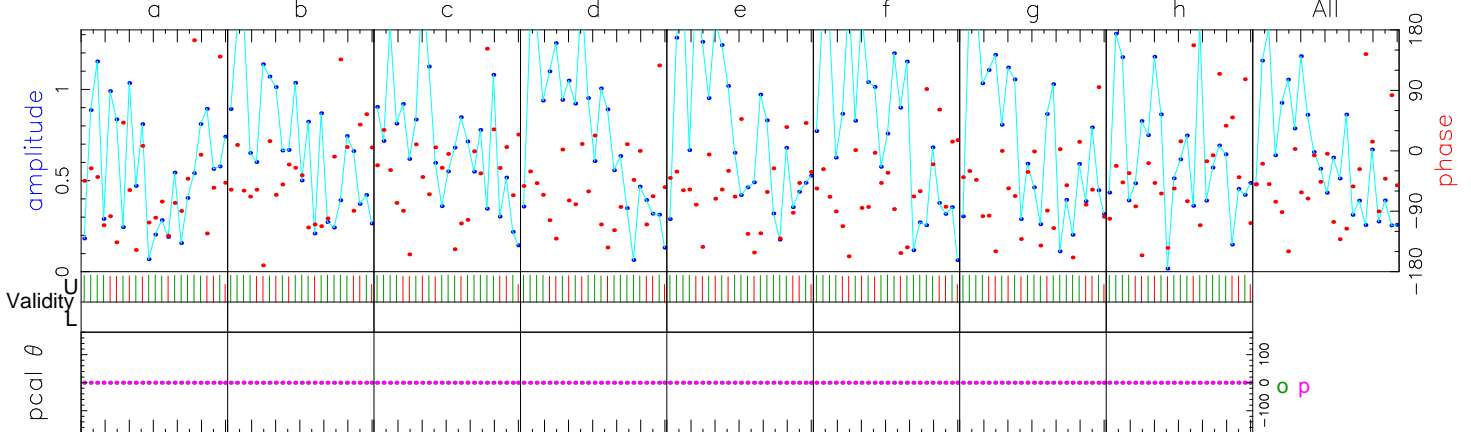


Fringe quality 9

SNR 22.5
Int time 345.126
Amp 0.442
Phase -58.6
PFD 0.0e+00
Delays (us)
SBD -0.002471
MBD -0.001729
Fringe rate (Hz) -0.000280
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122520
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

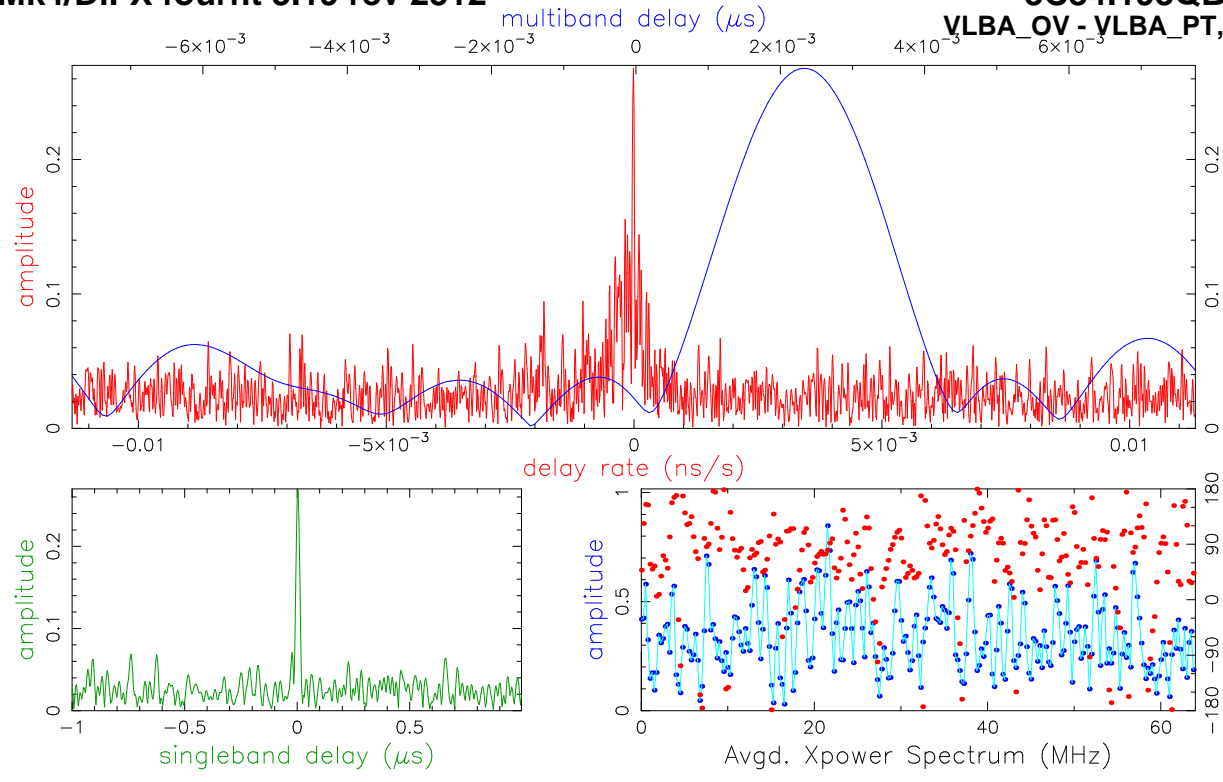
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-70.0	-47.1	-38.4	-63.6	-60.6	-71.8	-65.8	-49.5	Phase	-58.6
	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.4	Ampl.	0.4
	256.9	255.5	255.9	256.2	256.4	256.2	256.7	257.0	Sbd box	256.4
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.54678288658E+03	Apriori delay (usec)	-1.54678115743E+03	Resid mbdelay (usec)	-1.72916E-03	+/-	4.8E-05
Sband delay (usec)	-1.54678362868E+03	Apriori clock (usec)	2.8082352E+09	Resid sbdelay (usec)	-2.47125E-03	+/-	3.8E-04
Phase delay (usec)	-1.54678115932E+03	Apriori clockrate (us/s)	-2.9999874E-09	Resid phdelay (usec)	-1.88920E-06	+/-	1.6E-07
Delay rate (us/s)	6.98405700504E-02	Apriori rate (us/s)	6.98405733020E-02	Resid rate (us/s)	-3.25157E-09	+/-	7.9E-10
Total phase (deg)	-22.9	Apriori accel (us/s/s)	1.13383475963E-05	Resid phase (deg)	-58.6	+/-	5.1

ph/seg (deg)	61.1	Theor.	12.2	Amplitude	0.442 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	85.8	Search (2048X32)	0.428	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	13.0	Inc. seg. avg.	0.637	Inc. frq. avg.	0.442	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	16.7	Inc. frq. avg.	0.442			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

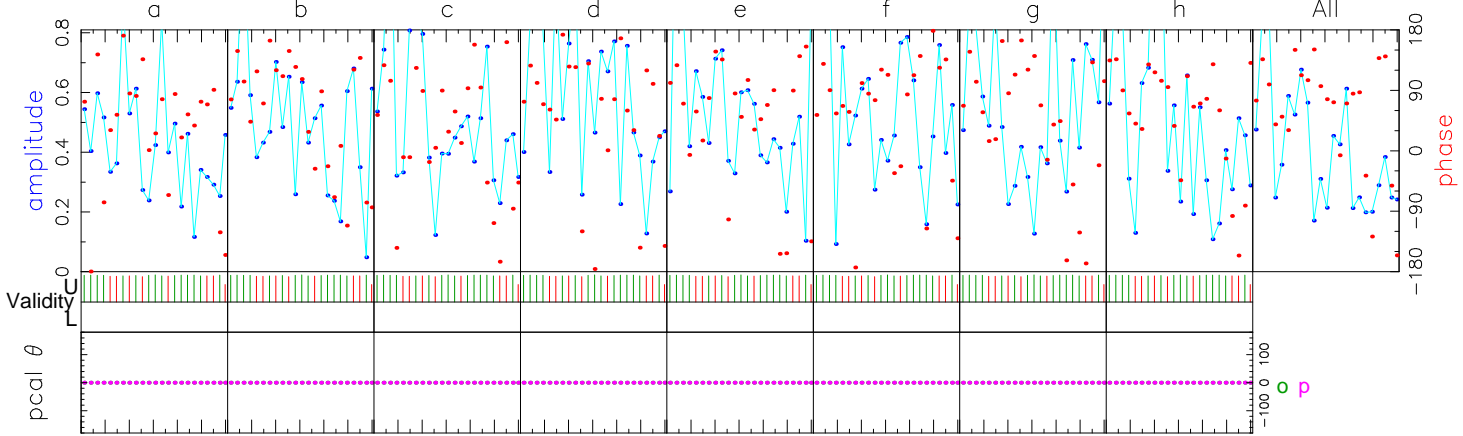


Fringe quality 9

SNR 13.7
Int time 345.127
Amp 0.270
Phase 93.6
PFD 4.7e-34
Delays (us)
SBD 0.002691
MBD 0.002313
Fringe rate (Hz) -0.000832
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122524
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



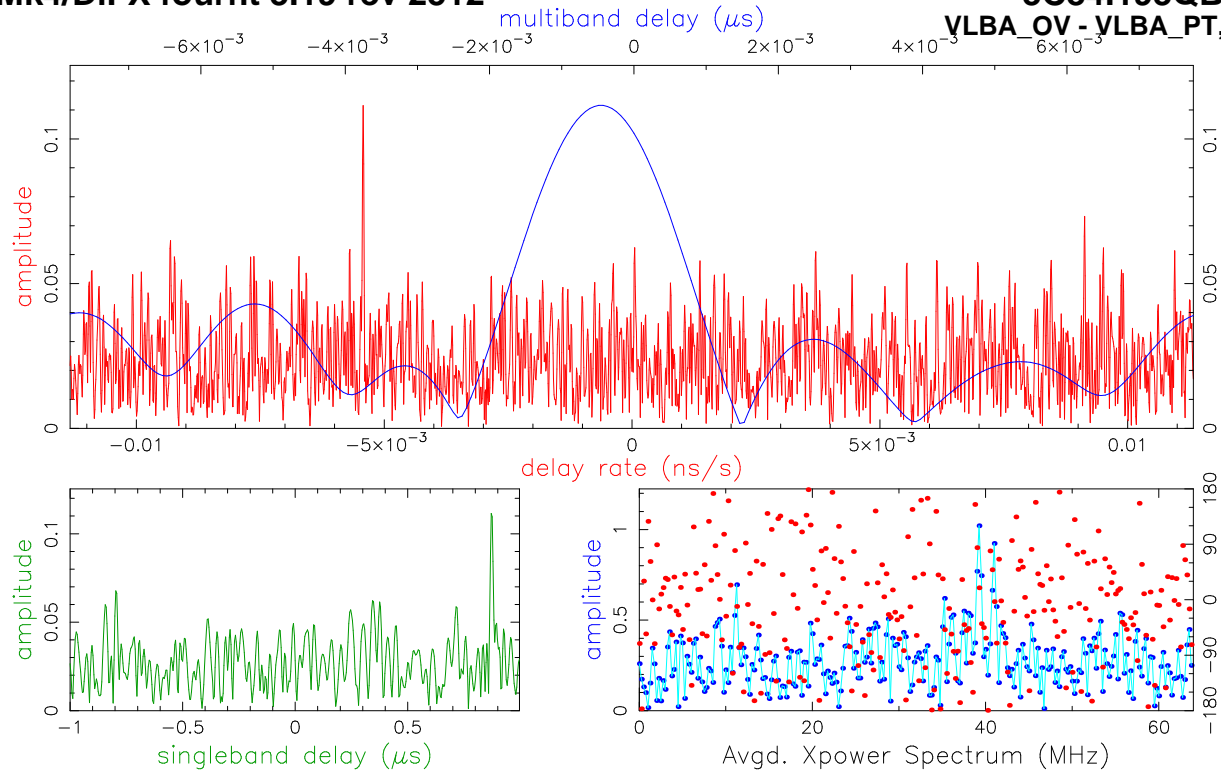
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
o	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	0:0
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	0:0
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-1.54677884482E+03	Apriori delay (usec)	-1.54678115743E+03	Resid mbdelay (usec)	2.31260E-03	+/-	7.9E-05
Sband delay (usec)	-1.54677846618E+03	Apriori clock (usec)	2.8082352E+00	Resid sbdelay (usec)	2.69125E-03	+/-	6.3E-04
Phase delay (usec)	-1.54678115441E+03	Apriori clockrate (us/s)	-2.9999874E-09	Resid phdelay (usec)	3.01897E-06	+/-	2.7E-07
Delay rate (us/s)	6.98405636408E-02	Apriori rate (us/s)	6.98405733020E-02	Resid rate (us/s)	-9.66118E-09	+/-	1.3E-09
Total phase (deg)	-230.7	Apriori accel (us/s/s)	1.13383475963E-05	Resid phase (deg)	93.6	+/-	8.4

ph/seg (deg)	66.2	20.0	Search (2048X32)	0.266	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	93.8	35.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	10.3	11.8	Inc. seg. avg.	0.389	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	21.6	20.6	Inc. frq. avg.	0.265	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

o: az 65.0 el 44.4 pa -74.6 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) -521.187 1068.033 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/op...193QBF Output file: /Exps/c201d/v1/1234/No0057/op.W.191.193QBF

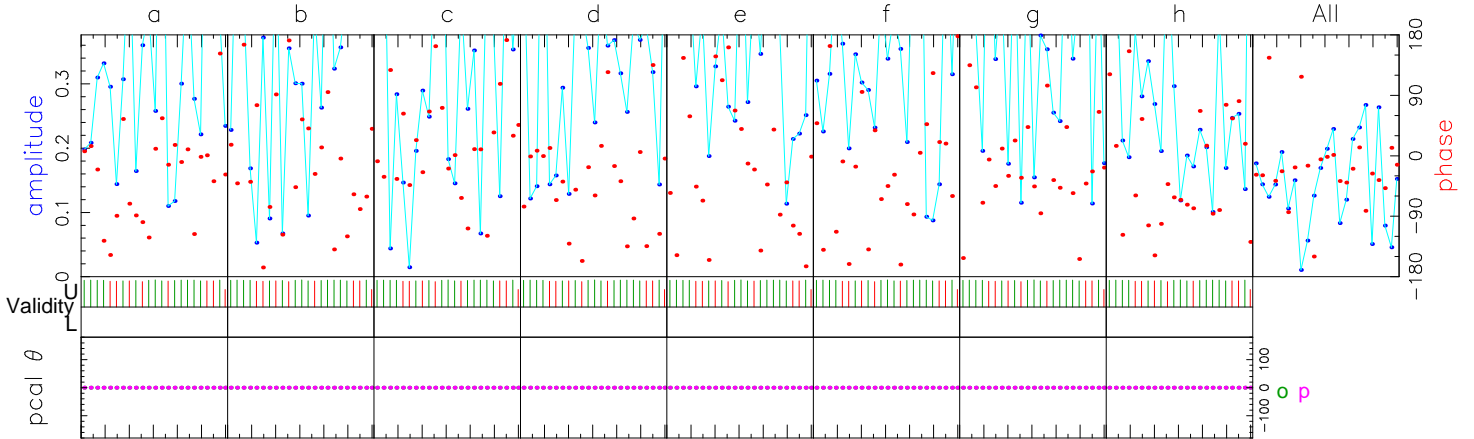


Fringe quality 0

SNR 5.8
Int time 345.126
Amp 0.125
Phase -26.9
PFD 8.4e-01
Delays (us)
SBD 0.872735
MBD -0.000415
Fringe rate (Hz)
-0.468161
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122528
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

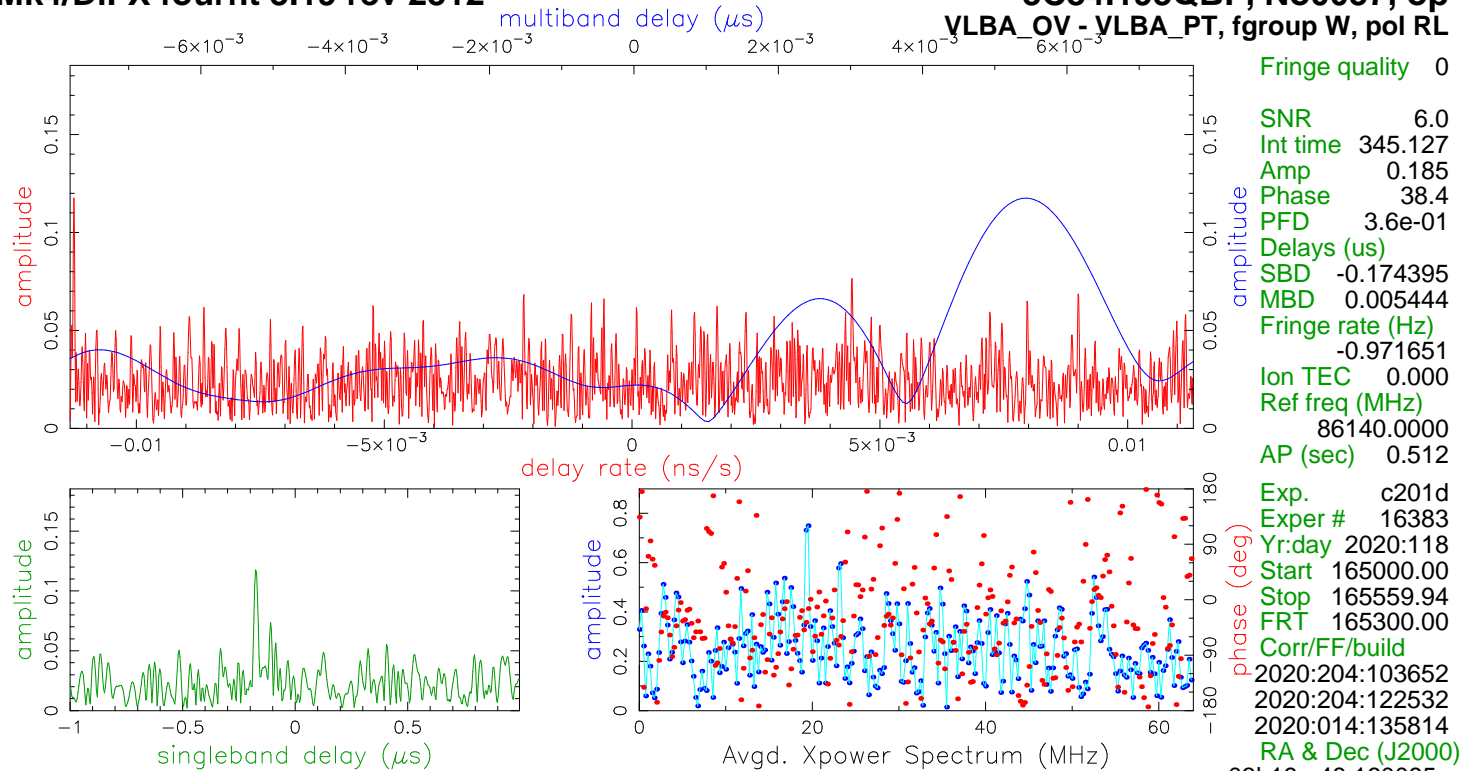
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



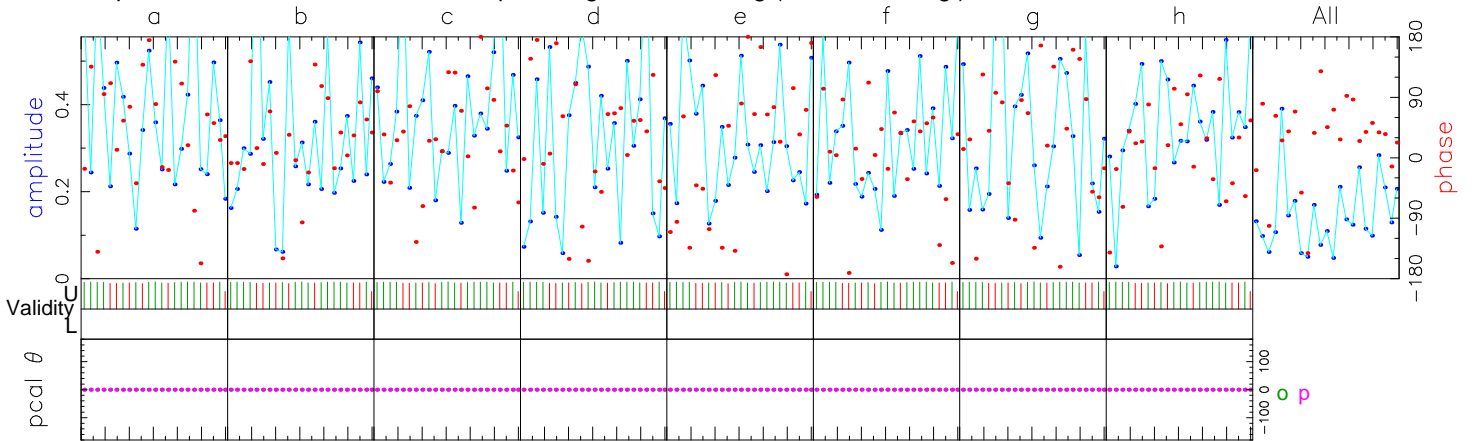
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-25.0	-38.9	4.6	-40.8	-31.1	-45.0	-2.3	-54.6	Phase	-26.9
	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.1	Ampl.	0.1
	40.6	82.9	54.4	347.4	53.5	344.0	15.3	91.8	Sbd box	480.4
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-1.54590657276E+03	Apriori delay (usec)	-1.54678115743E+03	Resid mbdelay (usec)	-4.15332E-04	+/-	1.9E-04
Sband delay (usec)	-1.54590842243E+03	Apriori clock (usec)	2.8082352E+00	Resid sbdelay (usec)	8.72735E-01	+/-	1.5E-03
Phase delay (usec)	-1.54678115829E+03	Apriori clockrate (us/s)	-2.9999874E-09	Resid phdelay (usec)	-8.66516E-07	+/-	6.4E-07
Delay rate (us/s)	6.98351384220E-02	Apriori rate (us/s)	6.98405733020E-02	Resid rate (us/s)	-5.43488E-06	+/-	3.1E-09
Total phase (deg)	-351.2	Apriori accel (us/s/s)	1.13383475963E-05	Resid phase (deg)	-26.9	+/-	19.8

ph/seg (deg)	58.7	Theor.	47.5	Amplitude	0.125 +/- 0.022	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	67.4	Search (2048X32)	0.110	Search	0.110	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	22.5	Inc. seg. avg.	0.119	Inc. seg. avg.	0.119	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	29.4	Inc. frq. avg.	0.116	Inc. frq. avg.	0.116	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
o: az 65.0 el 44.4 pa -74.6		p: az 64.2 el 50.6 pa -84.3		u, v (fr/asec)	-521.187 1068.033	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	



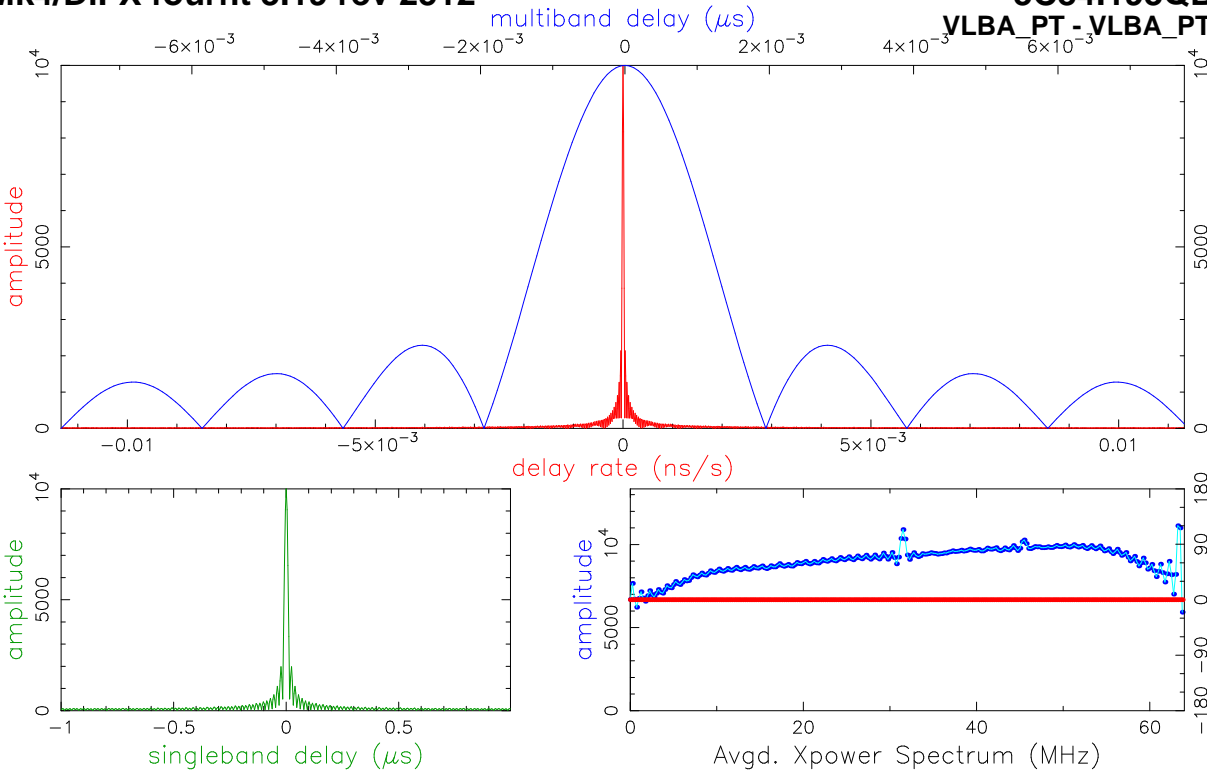
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
43.8	35.3	31.8	33.1	104.6	30.3	80.2	10.6		Phase	38.4
0.2	0.3	0.3	0.1	0.1	0.2	0.2	0.2		Ampl.	0.2
511.6	212.1	212.2	371.1	75.1	183.9	192.8	246.4		Sbd box	212.4
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0		APs used	
o	1000	1000	1000	1000	1000	1000	1000		PC freqs	
p	1000	1000	1000	1000	1000	1000	1000		PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC	
o	1000	1000	1000	1000	1000	1000	1000		PC amp	
p	1000	1000	1000	1000	1000	1000	1000			
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.54696321297E+03		Apriori delay (usec)	-1.54678115743E+03	Resid mbdelay (usec)	5.44446E-03	+/-	1.8E-04		
Sband delay (usec)	-1.54695555193E+03		Apriori clock (usec)	2.8082352E+00	Resid sbdelay (usec)	-1.74395E-01	+/-	1.4E-03		
Phase delay (usec)	-1.54678115619E+03		Apriori clockrate (us/s)	-2.9999874E-09	Resid phdelay (usec)	1.23818E-06	+/-	6.1E-07		
Delay rate (us/s)	6.98292933921E-02		Apriori rate (us/s)	6.98405733020E-02	Resid rate (us/s)	-1.12799E-05	+/-	3.0E-09		
Total phase (deg)		-285.9	Apriori accel (us/s/s)	1.13383475963E-05	Resid phase (deg)	38.4	+/-	19.0		

	RMS	Theor.	Amplitude	0.185 +/- 0.031	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	61.2	45.6	Search (2048X32)	0.116	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	72.3	79.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	34.3	26.9	Inc. seg. avg.	0.174	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	42.4	47.0	Inc. frq. avg.	0.179	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

o: az 65.0 el 44.4 pa -74.6 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) -521.187 1068.033 simultaneous interpolator

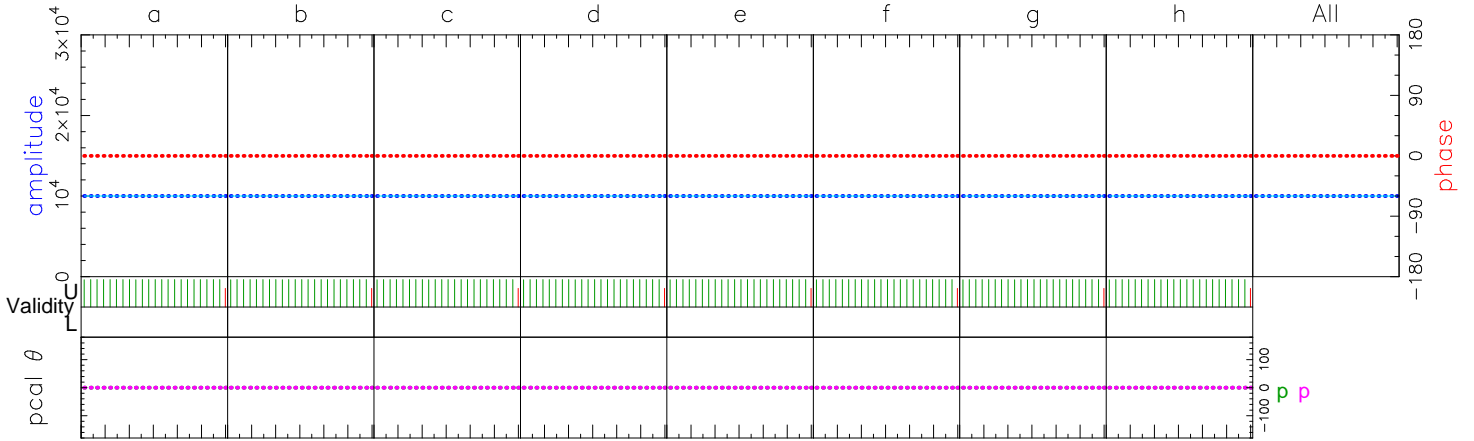


Fringe quality 9

SNR 518269.2
Int time 359.183
Amp 10000.001
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122520
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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



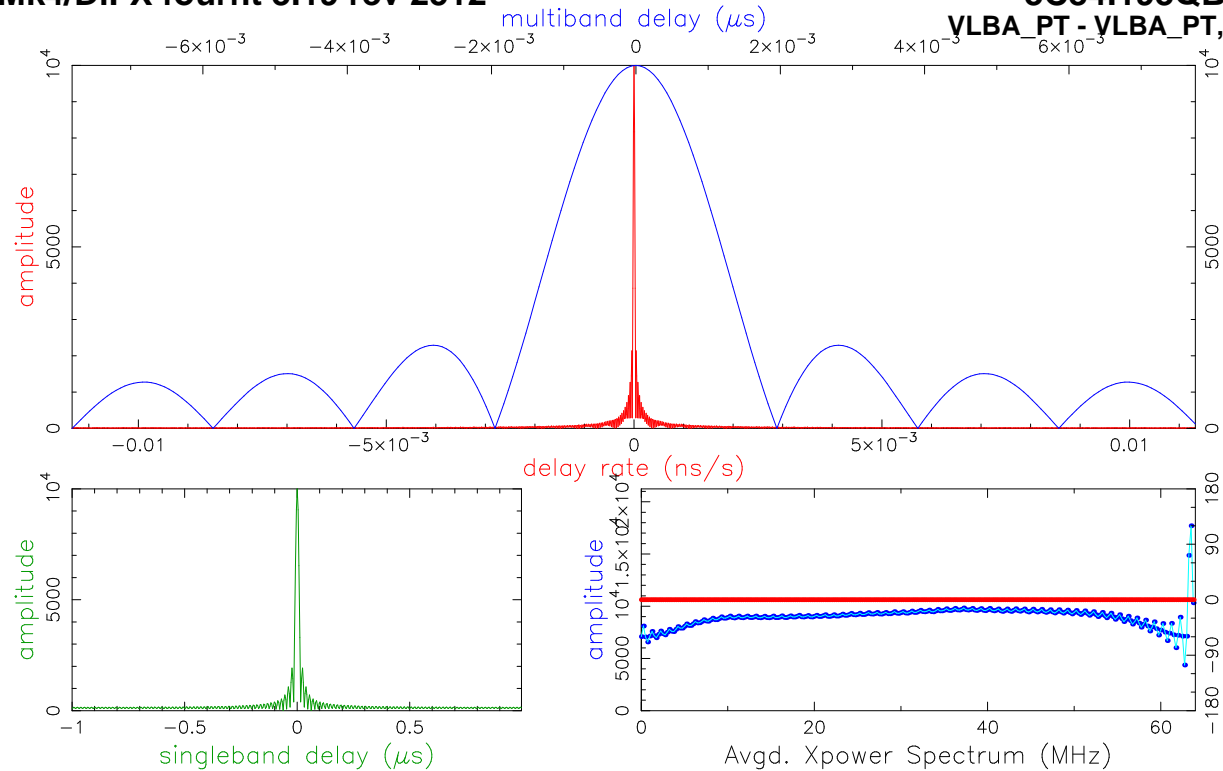
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.1E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.7E-08
Phase delay (usec)	2.45497558494E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.45498E-20	+/-	7.1E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.4E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

ph/seg (deg)	0.0	RMS	Theor.	Amplitude	10000.001 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.0	0.0	0.0	Search (2048X32)	10000.001	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	10000.001	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

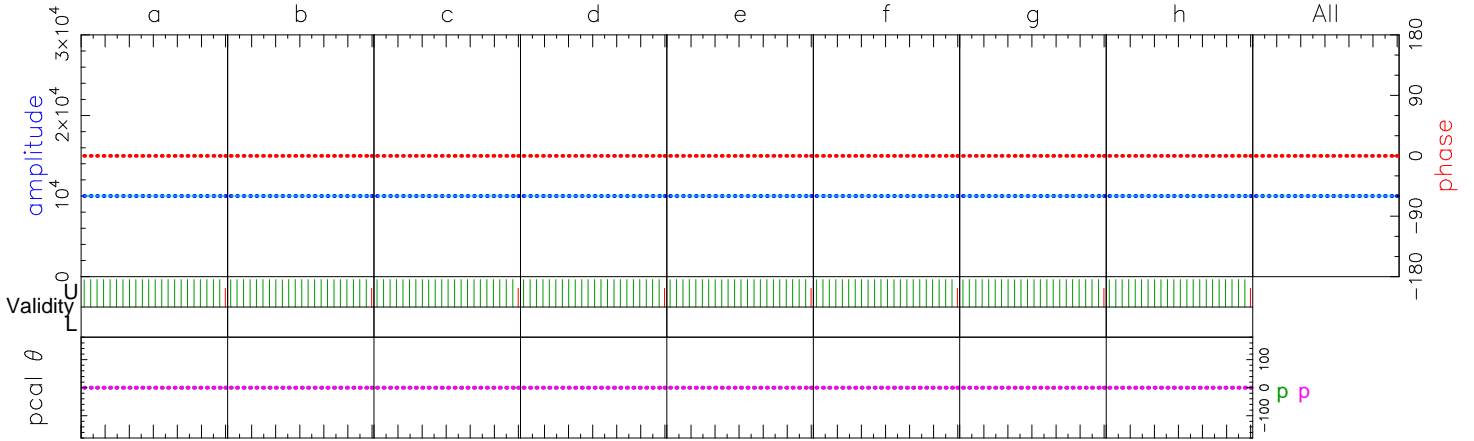
p: az 64.2 el 50.6 pa -84.3 p: az 64.2 el 50.6 pa -84.3 u,v (vr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/pp..193QBF Output file: /Exps/c201d/v1/1234/No0057/pp.W.175.193QBF



Fringe quality 9
SNR 518269.2
Int time 359.183
Amp 10000.004
Phase -0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122524
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



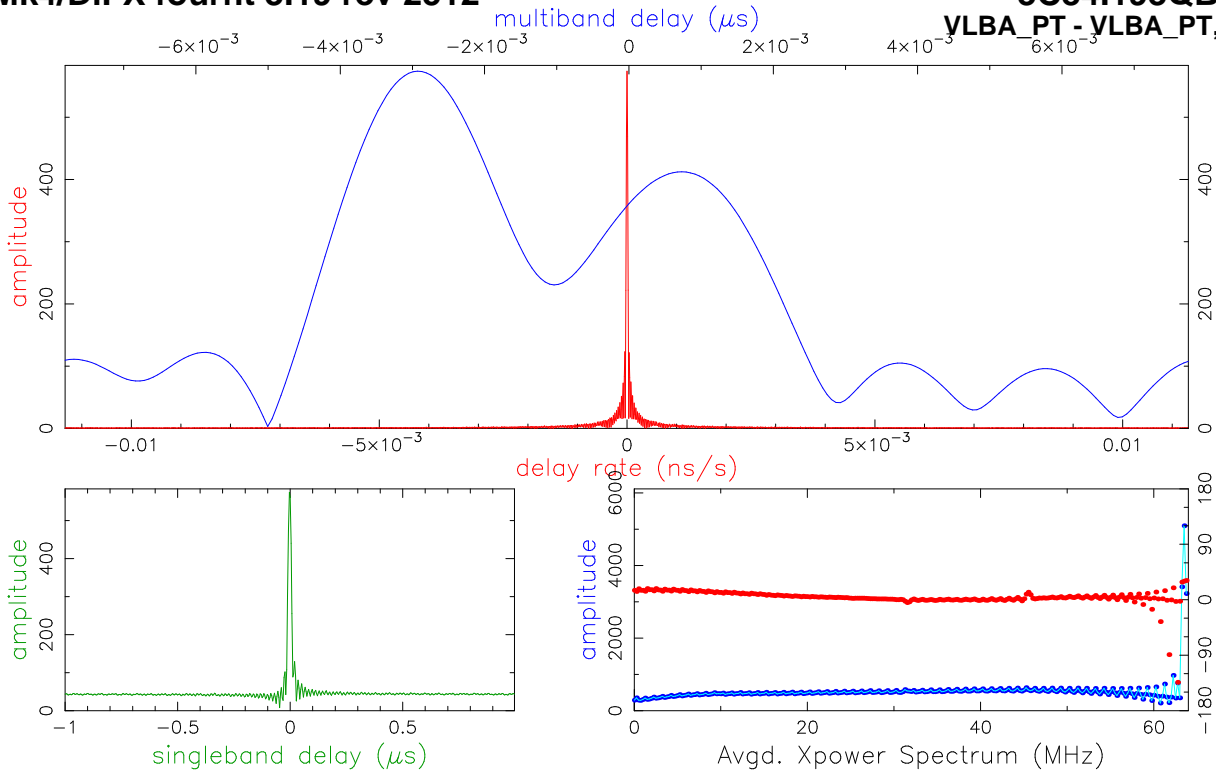
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.1E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.7E-08
Phase delay (usec)	-5.02614436105E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.02614E-20	+/-	7.1E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.4E-14
Total phase (deg)	-0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.0	+/-	0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10000.004 +/- 0.019 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
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.003 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 p: az 64.2 el 50.6 pa -84.3 p: az 64.2 el 50.6 pa -84.3 u,v (vr/asec) 0.000 0.000 simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

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

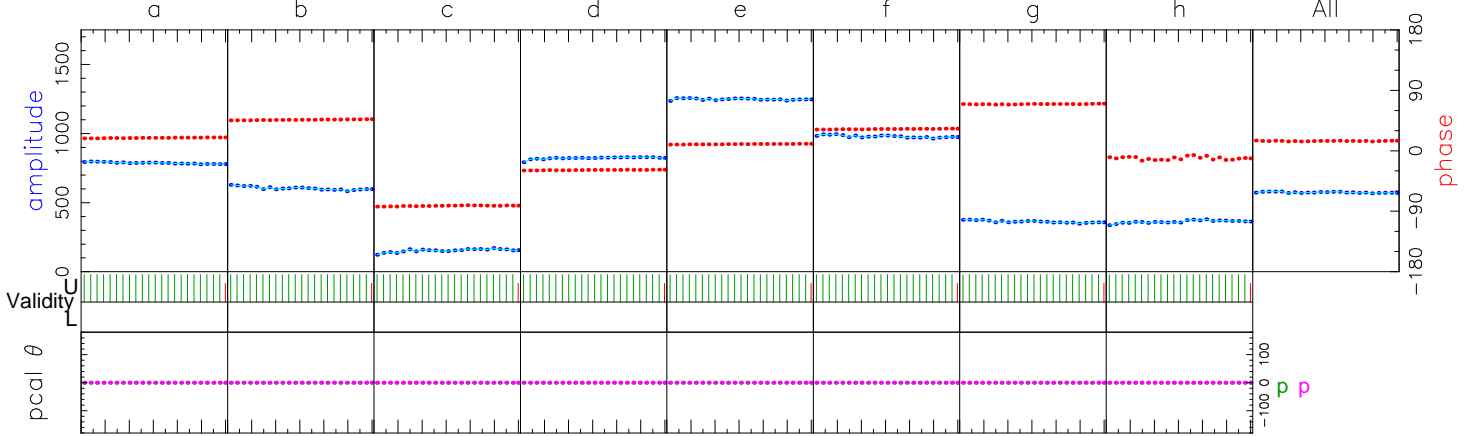


Fringe quality 5

SNR 30242.6
 Int time 359.183
 Amp 583.531
 Phase 14.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.002364
 MBD -0.002933
 Fringe rate (Hz)
 -0.000012
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122527
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

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

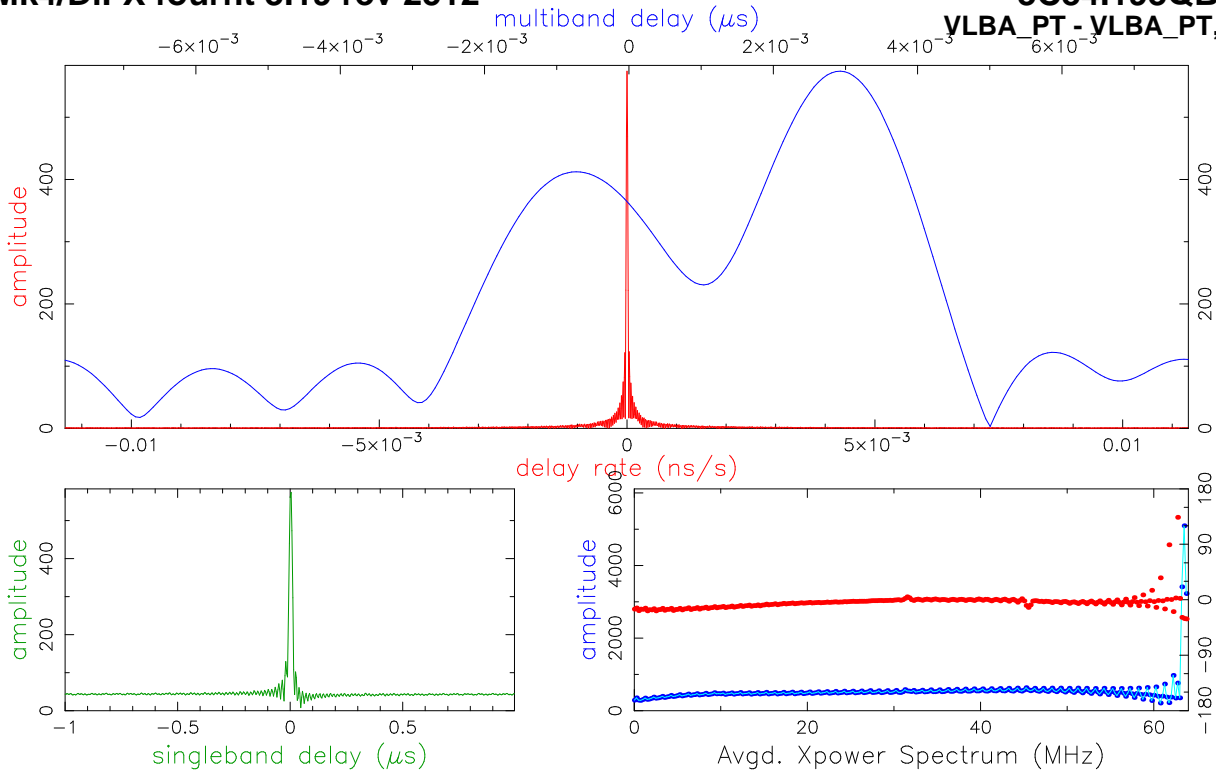


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		-2.93253125000E-03				0.00000000000E+00			Resid mbdelay (usec)	-2.93253E-03 +/- 3.6E-08
Sband delay (usec)		-2.36375000000E-03				0.00000000000E+00			Resid sbdelay (usec)	-2.36375E-03 +/- 2.8E-07
Phase delay (usec)		4.70247261965E-07				0.00000000000E+00			Resid phdelay (usec)	4.70247E-07 +/- 1.2E-10
Delay rate (us/s)		-1.35334505341E-10				0.00000000000E+00			Resid rate (us/s)	-1.35335E-10 +/- 5.9E-13
Total phase (deg)			14.6			0.00000000000E+00			Resid phase (deg)	14.6 +/- 0.0

ph/seg (deg) 0.4 0.0 Search (2048X32) 574.208 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.7 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) 51.9 0.0 Inc. seg. avg. 574.225 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 60.0 0.0 Inc. frq. avg. 664.871 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 p: az 64.2 el 50.6 pa -84.3 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 0.000 0.000 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/pp..193QBF Output file: /Exps/c201d/v1/1234/No0057/pp.W.209.193QBF

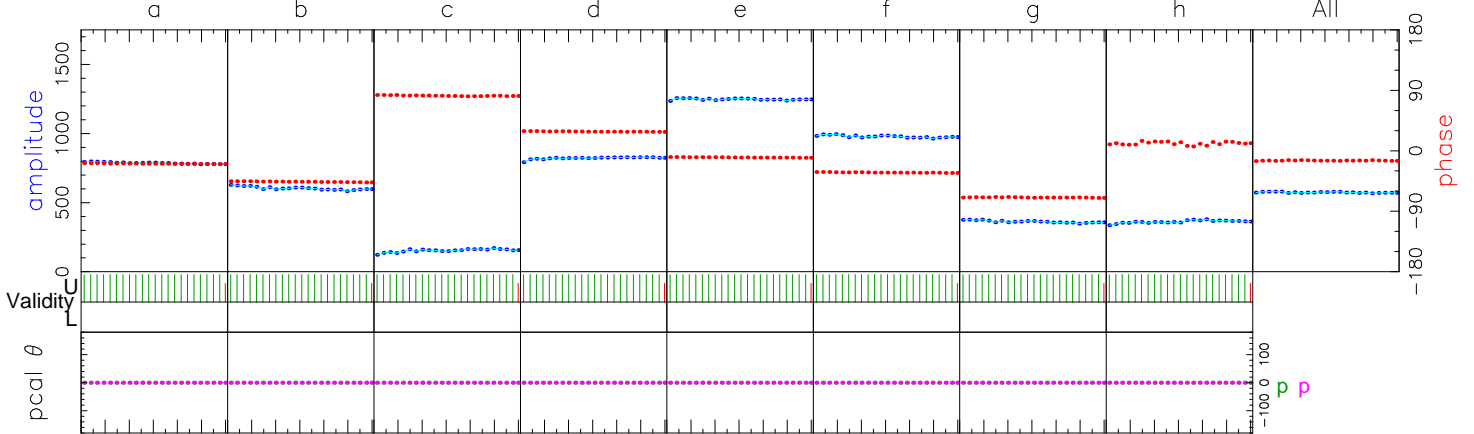
Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, pp
VLBA_PT - VLBA_PT, fgroup W, pol RL



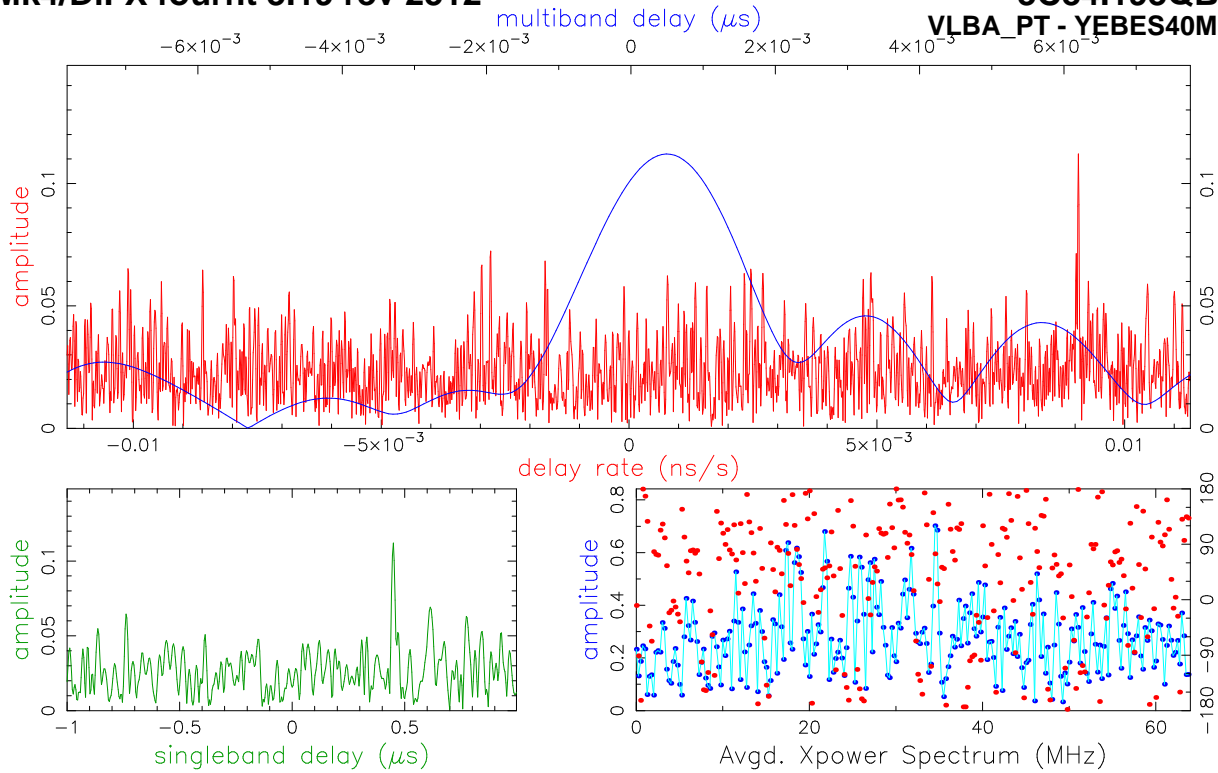
Fringe quality 5
SNR 30242.6
Int time 359.183
Amp 583.531
Phase -14.6
PFD 0.0e+00
Delays (us)
SBD 0.002364
MBD 0.002933
Fringe rate (Hz)
0.000012
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122531
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



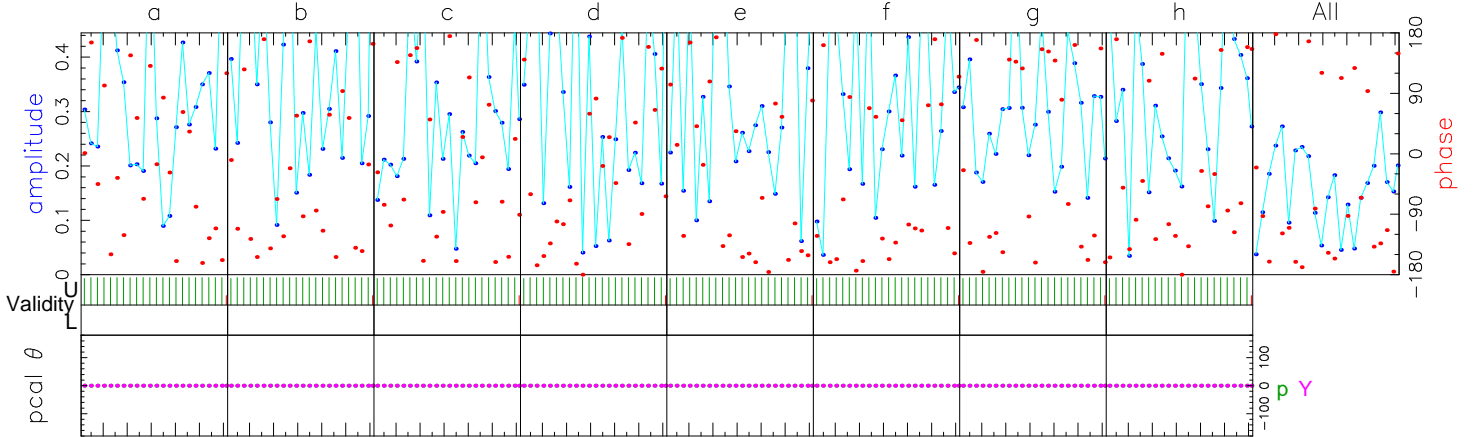
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-19.2	-46.0	81.9	28.6	-9.9	-32.3	-69.4	11.0	Phase	-14.6
	787.1	604.0	153.7	822.4	1248.2	978.9	362.7	362.0	Ampl.	664.9
	257.0	257.1	255.4	257.2	257.5	257.4	257.3	255.7	Sbd box	257.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.93253125000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		2.93253E-03	+/- 3.6E-08
Sband delay (usec)	2.36375000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		2.36375E-03	+/- 2.8E-07
Phase delay (usec)	-4.70247261906E-07		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-4.70247E-07	+/- 1.2E-10
Delay rate (us/s)	1.35334505341E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		1.35335E-10	+/- 5.9E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-14.6	+/- 0.0

ph/seg (deg) 0.4 0.0 Search (2048X32) 574.208 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.7 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) 51.9 0.0 Inc. seg. avg. 574.225 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 60.0 0.0 Inc. frq. avg. 664.871 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 p: az 64.2 el 50.6 pa -84.3 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/pp..193QBF Output file: /Exps/c201d/v1/1234/No0057/pp.W.226.193QBF



Fringe quality 0
SNR 5.8
Int time 353.381
Amp 0.148
Phase -148.8
PFD 8.7e-01
Delays (us)
SBD 0.448874
MBD 0.000484
Fringe rate (Hz) 0.781841
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165005.12
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122520
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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

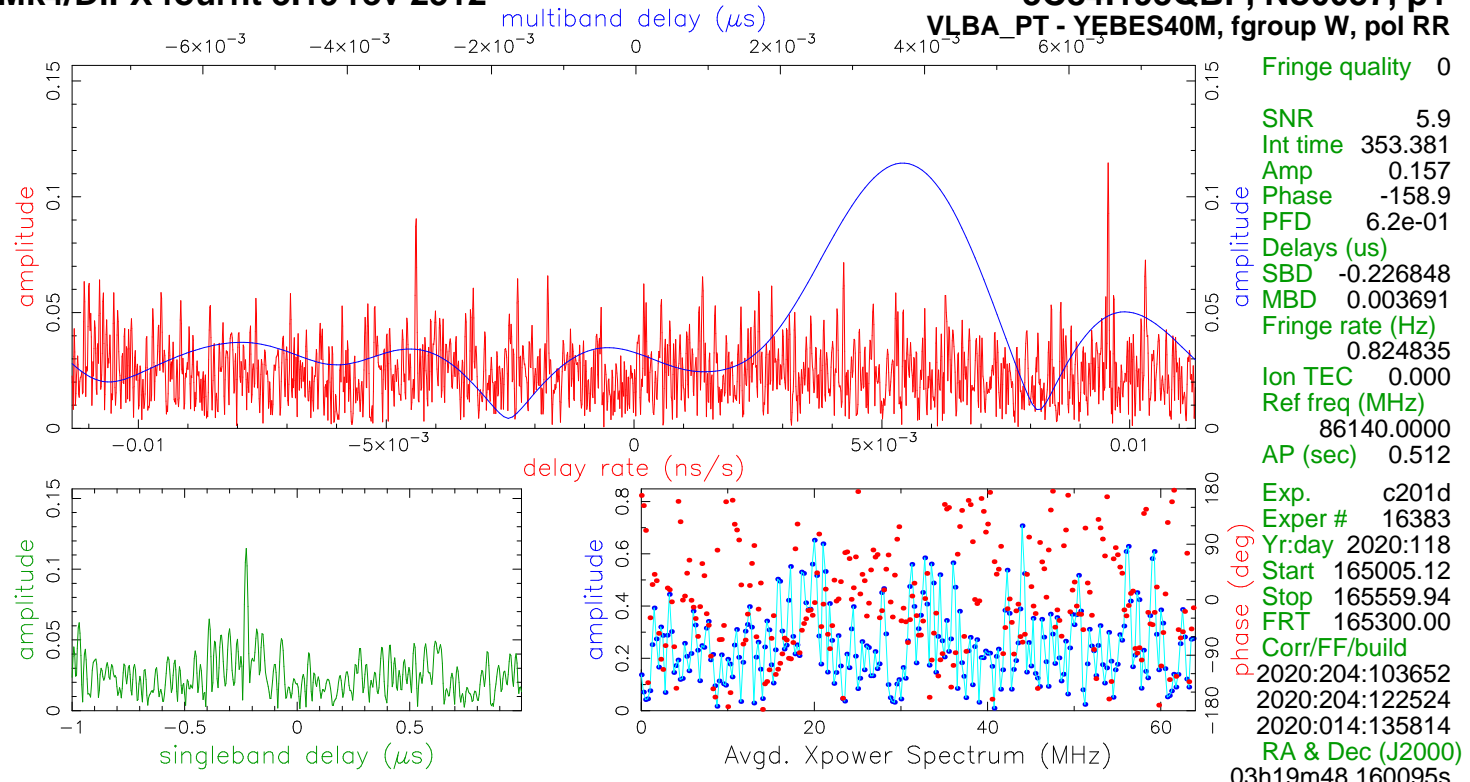


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-167.5	-136.2	-134.6	-145.0	-152.9	-153.9	-172.9	-123.6	Phase	-148.8
	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	Ampl.	0.1
	157.3	92.9	52.6	487.2	177.8	339.3	372.2	114.9	Sbd box	371.9
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

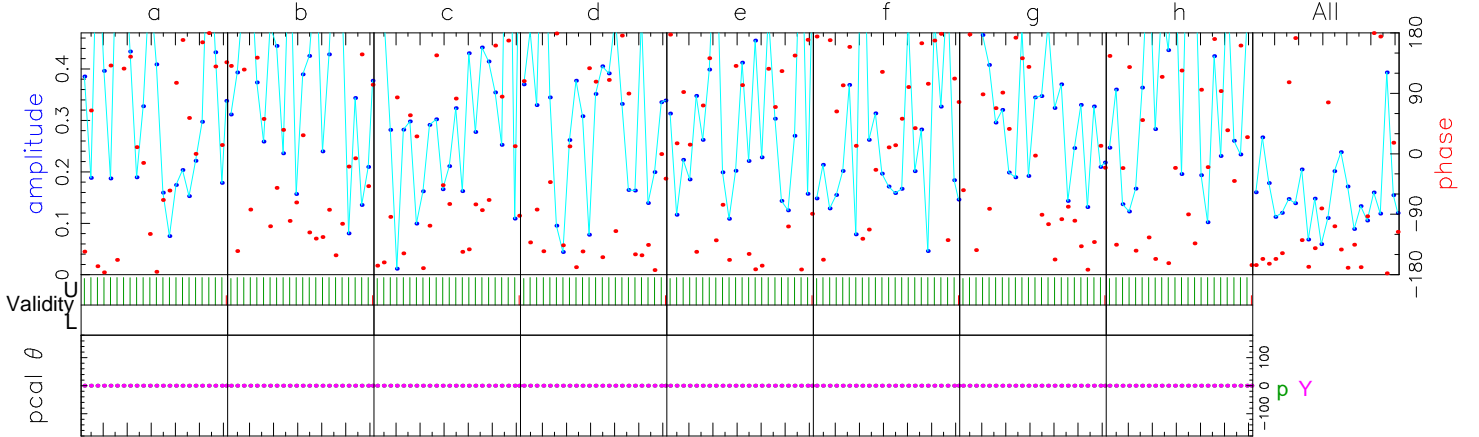
Group delay (usec)(sbd) 6.56318723099E+02 Apriori delay (usec) 6.55865114387E+02 Resid mbdelay (usec) 4.83712E-04 +/- 1.9E-04
Sband delay (usec) 6.56313988387E+02 Apriori clock (usec) 5.3129168E+00 Resid sbdelay (usec) 4.48874E-01 +/- 1.5E-03
Phase delay (usec) 6.55865109590E+02 Apriori clockrate (us/s) -1.6000005E-08 Resid phdelay (usec) -4.79735E-06 +/- 6.4E-07
Delay rate (us/s) 1.45729800755E+00 Apriori rate (us/s) 1.45728893114E+00 Resid rate (us/s) 9.07640E-06 +/- 3.1E-09
Total phase (deg) 194.4 Apriori accel (us/s/s) -9.90626793929E-06 Resid phase (deg) -148.8 +/- 19.9

RMS Theor. Amplitude 0.148 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 60.8 47.7 Search (2048X32) 0.110 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 76.6 83.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg) 18.2 28.1 Inc. seg. avg. 0.156 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
amp/frq (%) 39.2 49.1 Inc. frq. avg. 0.138 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

p: az 64.2 el 50.6 pa -84.3 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -11168.289 -1185.084 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/pY..193QBF Output file: /Exps/c201d/v1/1234/No0057/pY.W.177.193QBF



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

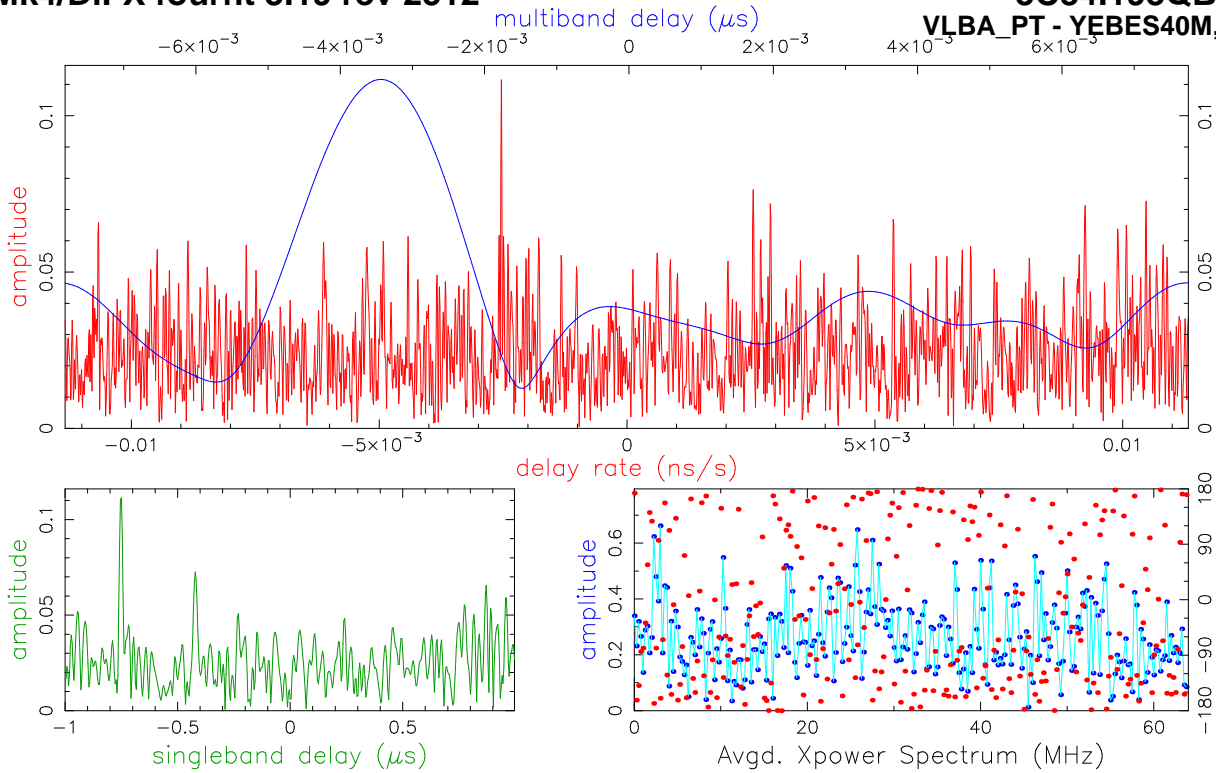


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	172.5	-110.7	-149.2	-153.4	168.0	169.8	-123.5	-153.2	Phase	-158.9
	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	Ampl.	0.2
	54.1	24.8	211.2	329.0	70.0	205.8	437.2	317.4	Sbd box	198.9
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.55634430379E+02		Apriori delay (usec)	6.55865114387E+02	Resid mbdelay (usec)	3.69099E-03	+/-	1.8E-04		
Sband delay (usec)	6.55638266137E+02		Apriori clock (usec)	5.3129168E+00	Resid sbdelay (usec)	-2.26848E-01	+/-	1.5E-03		
Phase delay (usec)	6.55865109263E+02		Apriori clockrate (us/s)	-1.6000005E-08	Resid phdelay (usec)	-5.12381E-06	+/-	6.3E-07		
Delay rate (us/s)	1.45729850666E+00		Apriori rate (us/s)	1.45728893114E+00	Resid rate (us/s)	9.57552E-06	+/-	3.1E-09		
Total phase (deg)		184.3	Apriori accel (us/s/s)	-9.90626793929E-06	Resid phase (deg)	-158.9	+/-	19.4		

	RMS	Theor.	Amplitude	0.157 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	57.5	46.6	Search (2048X32)	0.113	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	72.5	81.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	33.2	27.5	Inc. seg. avg.	0.162	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	37.1	48.0	Inc. frq. avg.	0.162	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

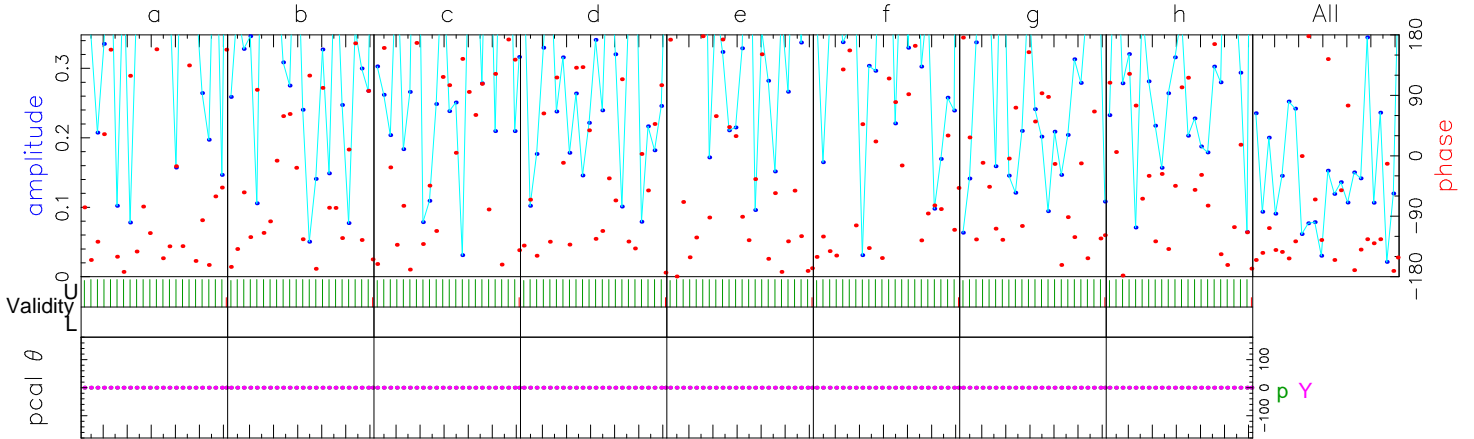
p: az 64.2 el 50.6 pa -84.3 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -11168.289 -1185.084 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/pY..193QBF Output file: /Exps/c201d/v1/1234/No0057/pY.W.196.193QBF



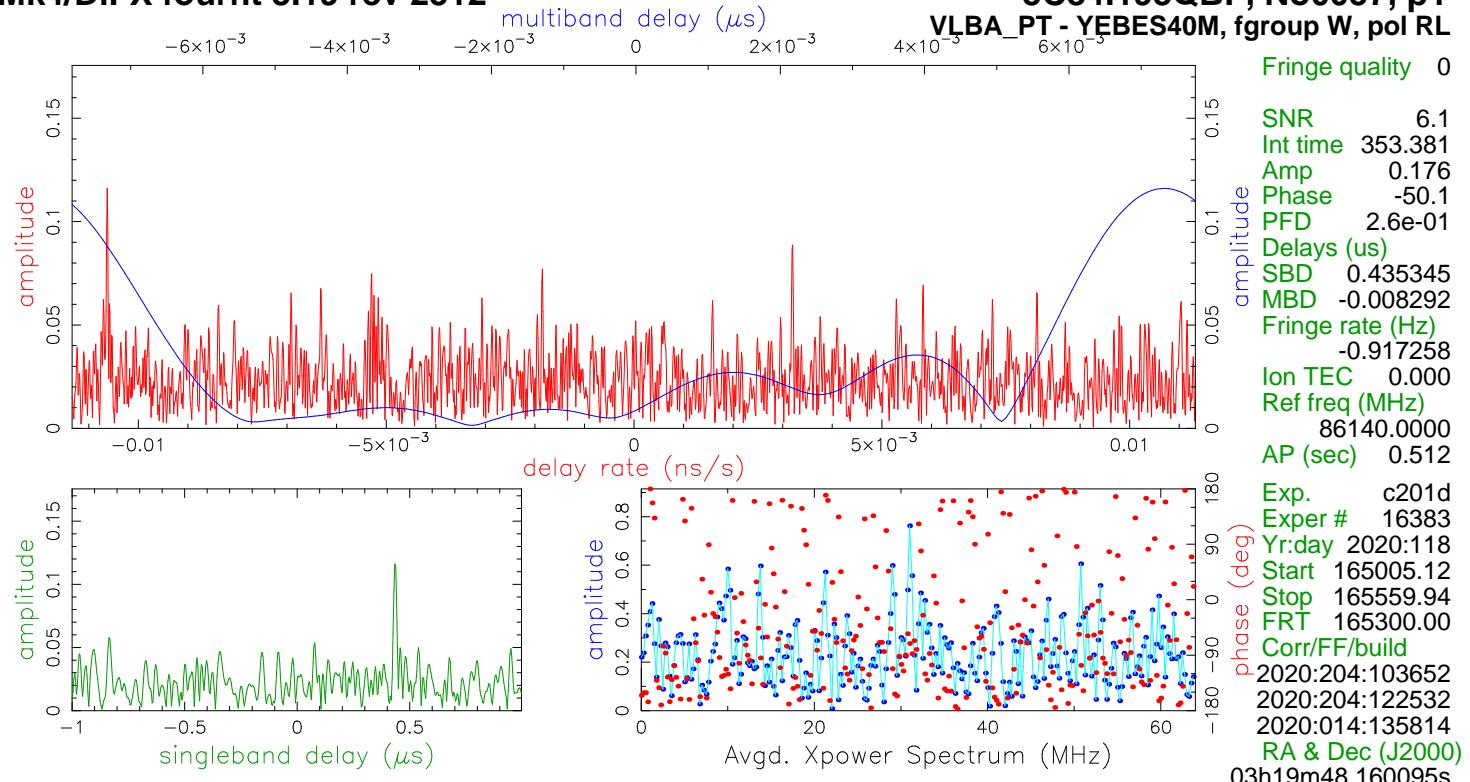
Fringe quality 0
SNR 5.8
Int time 353.381
Amp 0.116
Phase -139.3
PFD 7.2e-01
Delays (us)
SBD -0.751754
MBD -0.003512
Fringe rate (Hz)
-0.218684
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Yr:day 16383
Start 2020:118
Stop 2020:118
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122528
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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

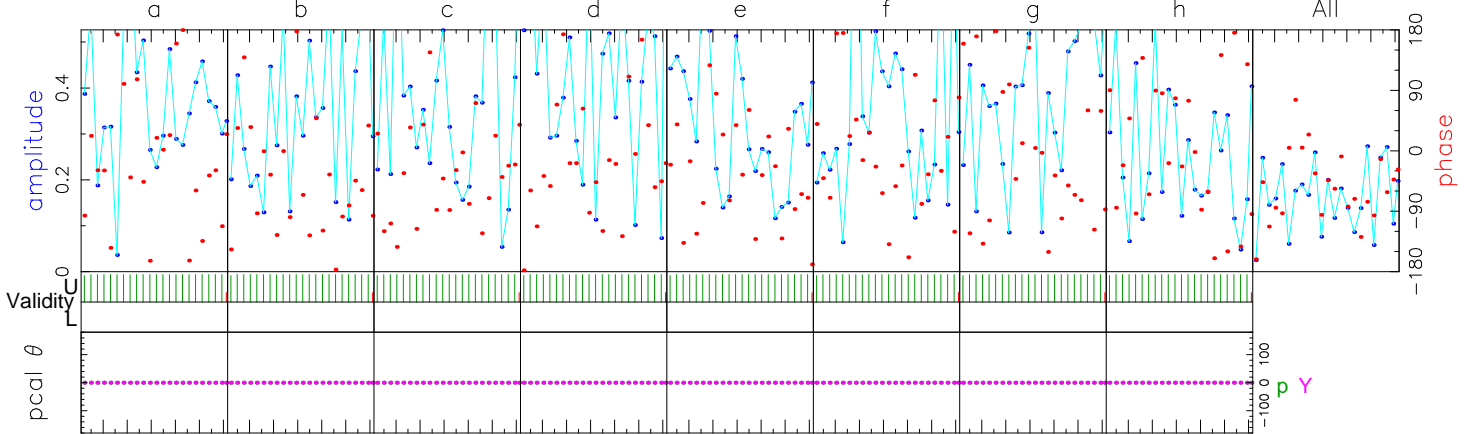


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-139.3	-105.9	171.1	-118.2	-144.5	-152.5	-88.7	-119.5	Phase	-139.3
	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	Ampl.	0.1
	63.8	3.4	441.1	339.8	64.9	278.3	330.7	484.9	Sbd box	64.6
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.55111602349E+02		Apriori delay (usec)		6.55865114387E+02		Resid mbdelay (usec)		-3.51204E-03	+/- 1.9E-04
Sband delay (usec)	6.55113360887E+02		Apriori clock (usec)		5.3129168E+00		Resid sbdelay (usec)		-7.51754E-01	+/- 1.5E-03
Phase delay (usec)	6.55865109895E+02		Apriori clockrate (us/s)		-1.6000005E-08		Resid phdelay (usec)		-4.49183E-06	+/- 6.3E-07
Delay rate (us/s)	1.45728639244E+00		Apriori rate (us/s)		1.45728893114E+00		Resid rate (us/s)		-2.53870E-06	+/- 3.1E-09
Total phase (deg)	203.9		Apriori accel (us/s/s)		-9.90626793929E-06		Resid phase (deg)		-139.3	+/- 19.6

ph/seg (deg) 60.7 47.0 Search (2048X32) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 78.9 82.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 34.6 27.7 Inc. seg. avg. 0.112 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 52.2 48.4 Inc. frq. avg. 0.113 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
p: az 64.2 el 50.6 pa -84.3 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -11168.289 -1185.084 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/pY...193QBF Output file: /Exps/c201d/v1/1234/No0057/pY.W.216.193QBF

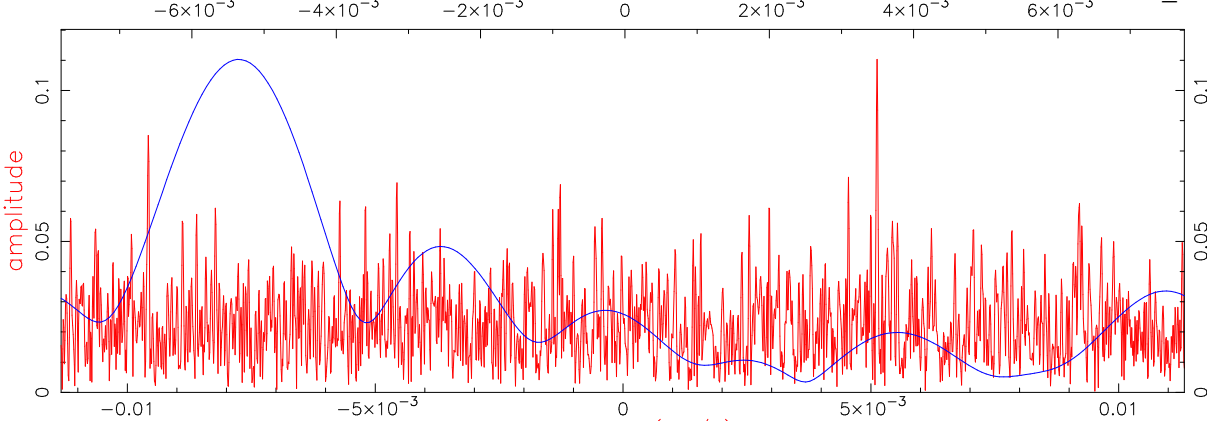


Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



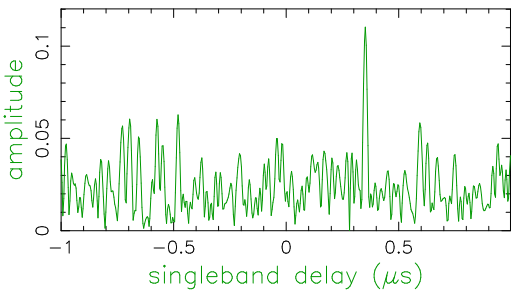
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All		
	-43.1	-54.9	-53.3	-58.7	-36.4	-28.4	-81.2	-58.4	Phase	-50.1		
	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	Ampl.	0.2		
	120.9	47.9	170.5	217.0	1.8	134.0	338.5	321.3	Sbd box	368.4		
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0	APs used			
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase			
p:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC			
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp			
Y	1000	1000	1000	1000	1000	1000	1000	1000				
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids			
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks			
									Tracks			
Group delay (usec)(sbd)		6.56294322481E+02		Apriori delay (usec)	6.55865114387E+02		Resid mbdelay (usec)	-8.29191E-03	+/-	1.8E-04		
Sband delay (usec)		6.56300459137E+02		Apriori clock (usec)	5.3129168E+00		Resid sbdelay (usec)	4.35345E-01	+/-	1.4E-03		
Phase delay (usec)		6.55865112773E+02		Apriori clockrate (us/s)	-1.6000005E-08		Resid phdelay (usec)	-1.61414E-06	+/-	6.1E-07		
Delay rate (us/s)		1.45727828268E+00		Apriori rate (us/s)	1.45728893114E+00		Resid rate (us/s)	-1.06485E-05	+/-	3.0E-09		
Total phase (deg)		293.1		Apriori accel (us/s/s)	-9.90626793929E-06		Resid phase (deg)	-50.1	+/-	18.8		
RMS		Theor.	Amplitude	0.176 +/- 0.029		PCal mode: MANUAL, MANUAL		PC period (AP's)	5, 5			
ph/seg (deg)	53.0	45.1	Search (2048X32)	0.114		PCal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000		
amp/seg (%)	71.4	78.8	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	17.6	26.6	Inc. seg. avg.	0.184		Sample rate(MISamp/s): 128			dr window (ns/s)	-0.011	0.011	
amp/frq (%)	41.0	46.4	Inc. frq. avg.	0.161		Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00
p: az 64.2 el 50.6 pa -84.3			Y: az 290.3 el 49.0 pa 72.6			u, v (fr/asec)	-11168.289 -1185.084					simultaneous interpolator

multiband delay (μs)



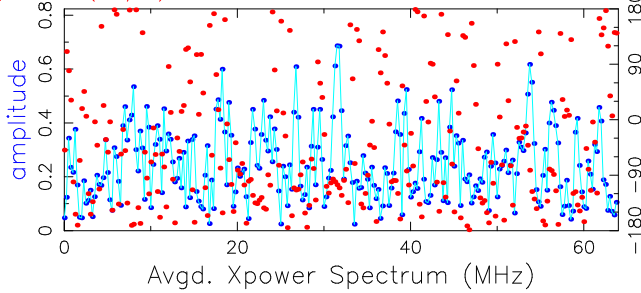
Fringe quality 0

SNR 5.7
Int time 359.145
Amp 0.120
Phase 34.8
PFD 9.3e-01
Delays (us)
SBD 0.351292
MBD -0.005360
Fringe rate (Hz)
0.442551
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



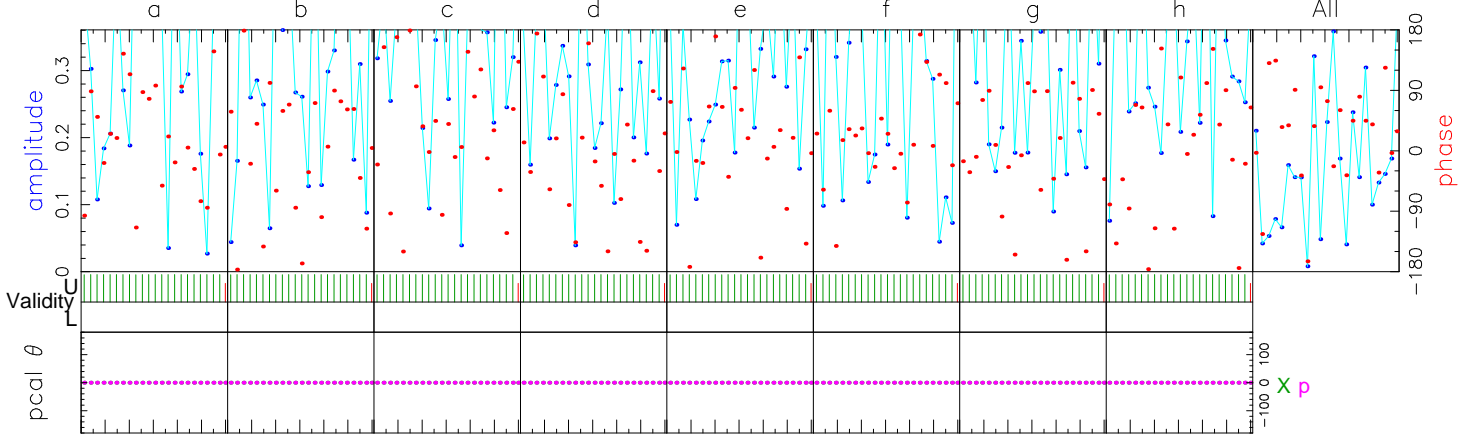
singleband delay (μs)

delay rate (ns/s)



Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122523
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



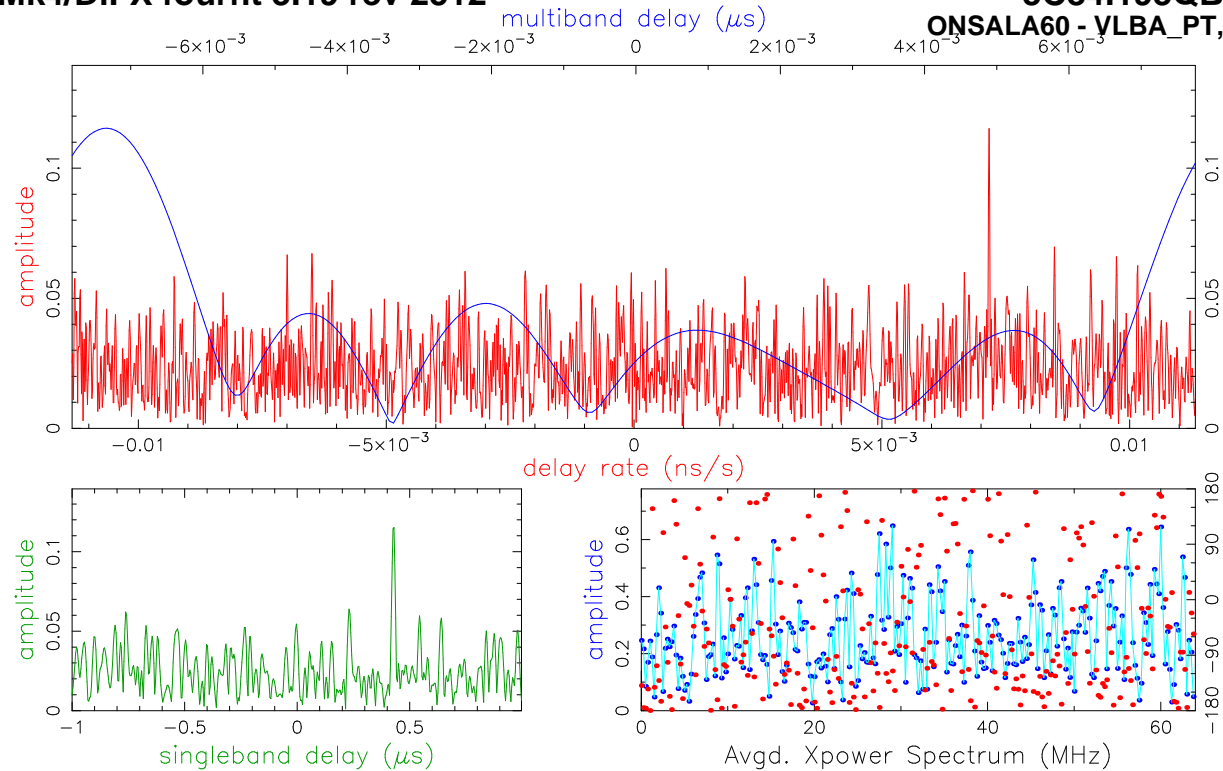
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.88867731073E+03	Apriori delay (usec)	-1.88903132605E+03	Resid mbdelay (usec)	-5.35968E-03	+/-	1.9E-04
Sband delay (usec)	-1.88868003430E+03	Apriori clock (usec)	2.3523680E+01	Resid sbdelay (usec)	3.51292E-01	+/-	1.5E-03
Phase delay (usec)	-1.88903132493E+03	Apriori clockrate (us/s)	3.2400002E-07	Resid phdelay (usec)	1.12254E-06	+/-	6.5E-07
Delay rate (us/s)	-1.31743849054E+00	Apriori rate (us/s)	-1.31744362811E+00	Resid rate (us/s)	5.13757E-06	+/-	3.1E-09
Total phase (deg)	-118.7	Apriori accel (us/s/s)	3.10583624421E-05	Resid phase (deg)	34.8	+/-	20.0

ph/seg (deg)	69.7	RMS	48.0	Theor.	Amplitude	0.120 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	100.1	69.7	48.0	Search (2048X32)	0.109	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	19.3	83.9	48.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	38.0	28.3	48.0	Inc. seg. avg.	0.126	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011 0.011	
		38.0	48.0	Inc. frq. avg.	0.110	Data rate(Mb/s): 2048	ion window (TEC)	0.00 0.00	

X: az 281.6 el 44.0 pa 44.9 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 10121.378 3944.637 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Xp..193QBF Output file: /Exps/c201d/v1/1234/No0057/Xp.W.189.193QBF

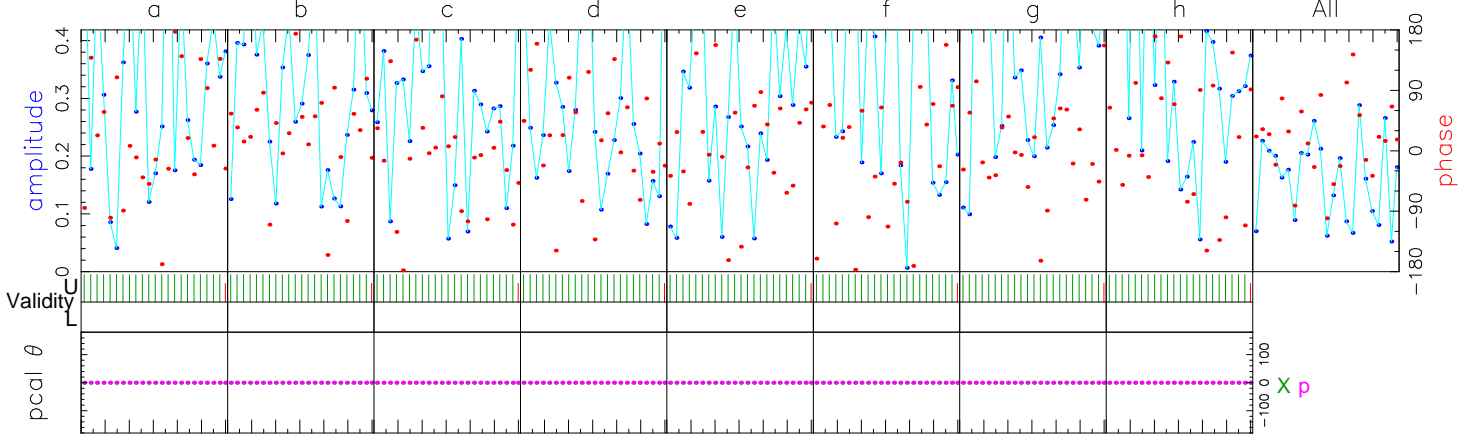


Fringe quality 0

SNR 6.1
 Int time 359.145
 Amp 0.140
 Phase 18.6
 PFD 2.5e-01
 Delays (us)
 SBD 0.427904
 MBD 0.008232
 Fringe rate (Hz) 0.618321
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

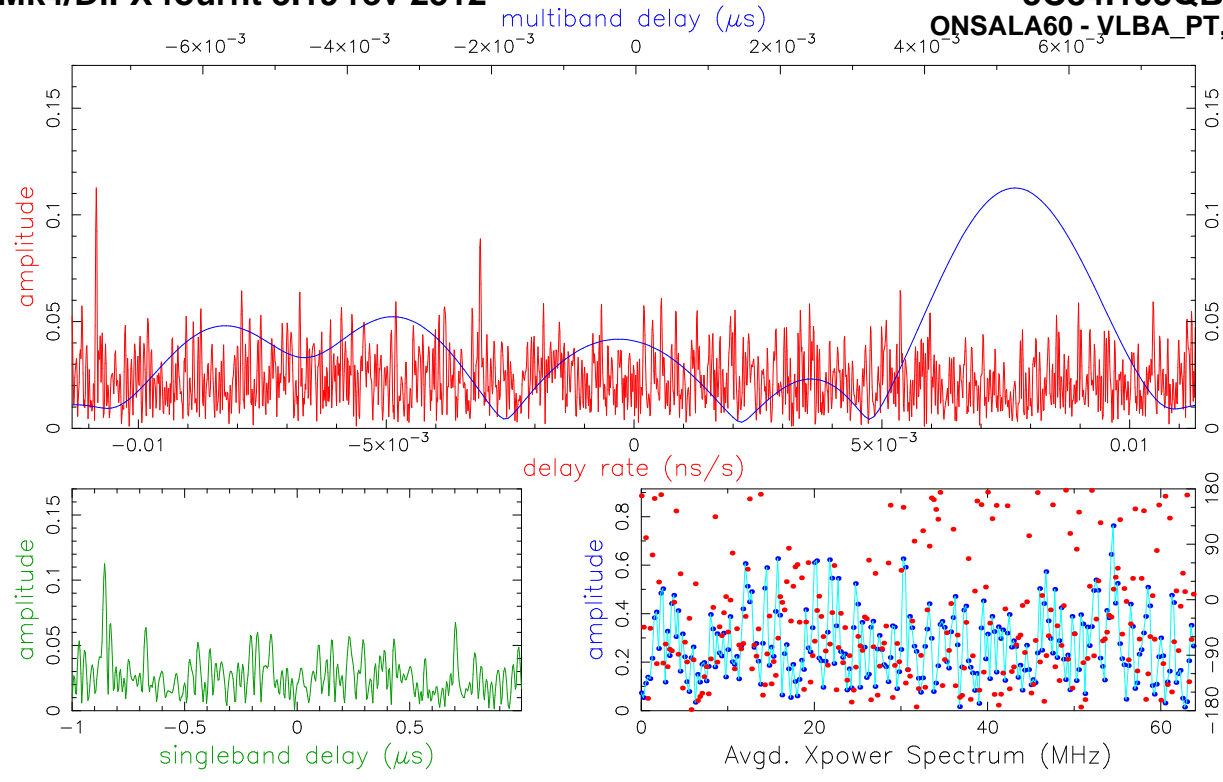
Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build 2020:204:103652
 2020:204:122527
 2020:014:135814
 RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-7.4	38.2	-9.5	30.8	24.4	32.2	7.0	41.2	Phase	18.6
	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	Ampl.	0.1
	369.4	366.9	438.0	196.2	119.1	485.1	365.9	68.1	Sbd box	366.5
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.88860121874E+03		Apriori delay (usec)		-1.88903132605E+03		Resid mbdelay (usec)		8.23231E-03	+/- 1.8E-04
Sband delay (usec)	-1.88860342255E+03		Apriori clock (usec)		2.3523680E+01		Resid sbdelay (usec)		4.27904E-01	+/- 1.4E-03
Phase delay (usec)	-1.88903132546E+03		Apriori clockrate (us/s)		3.2400002E-07		Resid phdelay (usec)		5.98680E-07	+/- 6.1E-07
Delay rate (us/s)	-1.31743645002E+00		Apriori rate (us/s)		-1.31744362811E+00		Resid rate (us/s)		7.17809E-06	+/- 2.9E-09
Total phase (deg)			Apriori accel (us/s/s)		3.10583624421E-05		Resid phase (deg)		18.6	+/- 18.8

ph/seg (deg) 57.0 45.1 Search (2048X32) 0.112 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 70.2 78.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 21.8 26.6 Inc. seg. avg. 0.145 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 41.8 46.4 Inc. frq. avg. 0.130 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 X: az 281.6 el 44.0 pa 44.9 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 10121.378 3944.637 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Xp..193QBF Output file: /Exps/c201d/v1/1234/No0057/Xp.W.206.193QBF

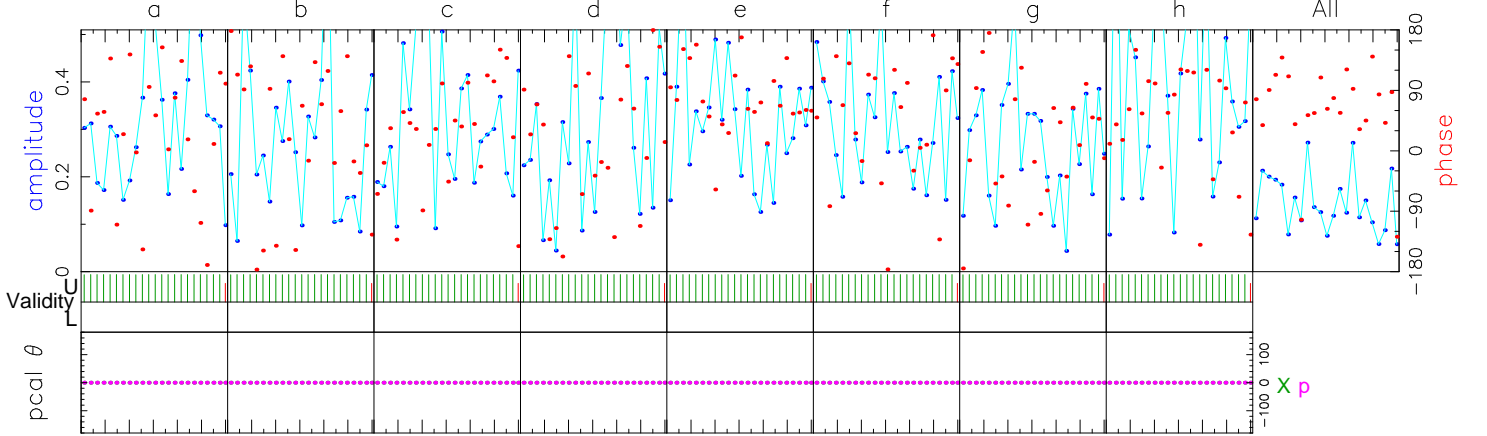


Fringe quality 0

SNR 5.8
Int time 359.145
Amp 0.170
Phase 78.5
PFD 7.4e-01
Delays (us)
SBD -0.855250
MBD 0.005251
Fringe rate (Hz)
-0.936311
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

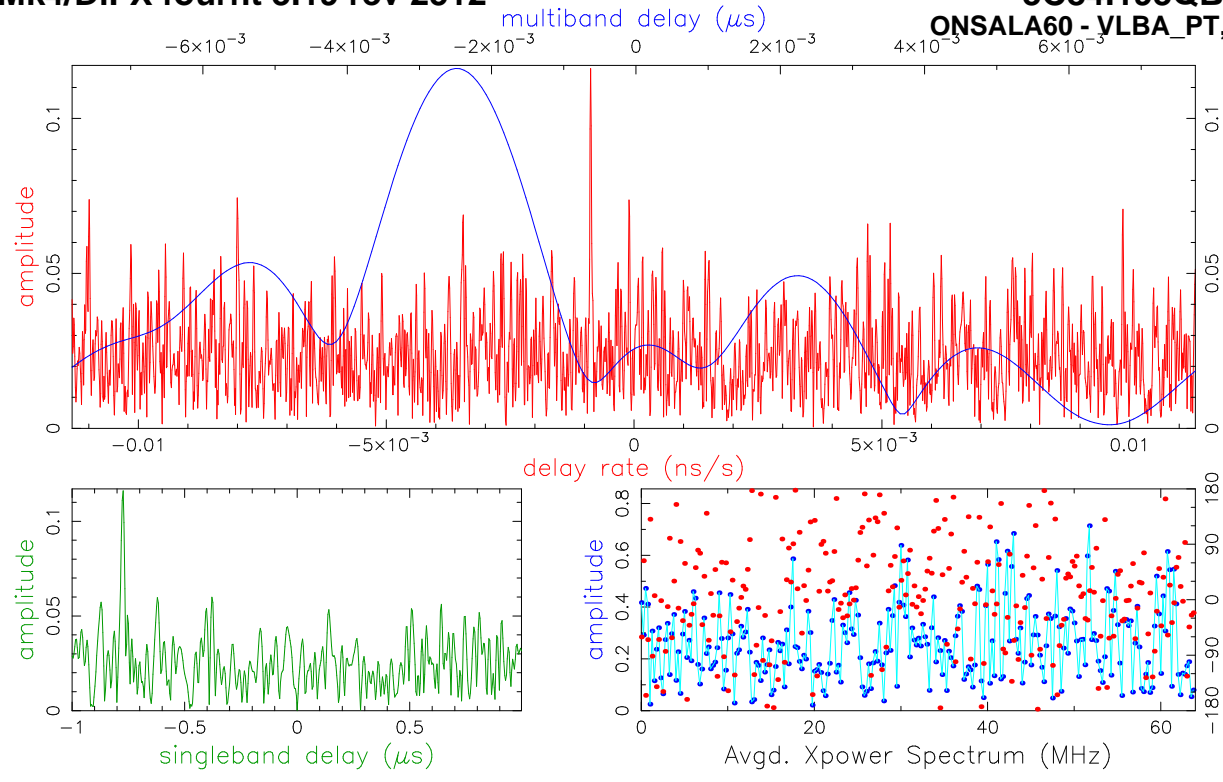
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122531
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
74.2	111.9	45.3	86.1	76.8	101.2	32.2	85.7	85.7	Phase	78.5
0.1	0.2	0.2	0.1	0.3	0.2	0.1	0.3	0.3	Ampl.	0.2
298.4	227.3	288.8	33.0	39.3	429.1	507.0	38.2	38.2	Sbd box	38.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.88988545034E+03		Apriori delay (usec)		-1.88903132605E+03		Resid mbdelay (usec)		5.25071E-03	+/- 1.9E-04
Sband delay (usec)	-1.88988657580E+03		Apriori clock (usec)		2.3523680E+01		Resid sbdelay (usec)		-8.55250E-01	+/- 1.5E-03
Phase delay (usec)	-1.88903132352E+03		Apriori clockrate (us/s)		3.2400002E-07		Resid phdelay (usec)		2.53182E-06	+/- 6.3E-07
Delay rate (us/s)	-1.31745449775E+00		Apriori rate (us/s)		-1.31744362811E+00		Resid rate (us/s)		-1.08696E-05	+/- 3.0E-09
Total phase (deg)			Apriori accel (us/s/s)		3.10583624421E-05		Resid phase (deg)		78.5	+/- 19.6

ph/seg (deg) 55.8 47.1 Search (2048X32) 0.110 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 61.1 82.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 28.9 27.8 Inc. seg. avg. 0.165 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 49.9 48.4 Inc. frq. avg. 0.165 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 X: az 281.6 el 44.0 pa 44.9 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 10121.378 3944.637 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Xp..193QBF Output file: /Exps/c201d/v1/1234/No0057/Xp.W.229.193QBF

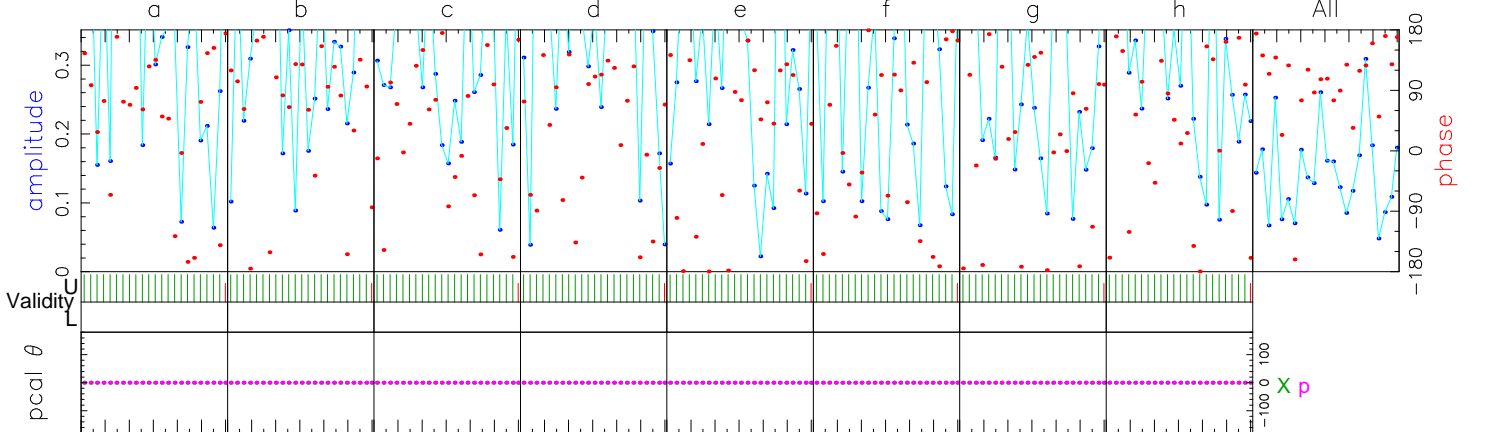


Fringe quality 0

SNR 6.1
Int time 359.145
Amp 0.117
Phase 119.5
PFD 3.1e-01
Delays (us)
SBD -0.774425
MBD -0.002503
Fringe rate (Hz)
-0.075270
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

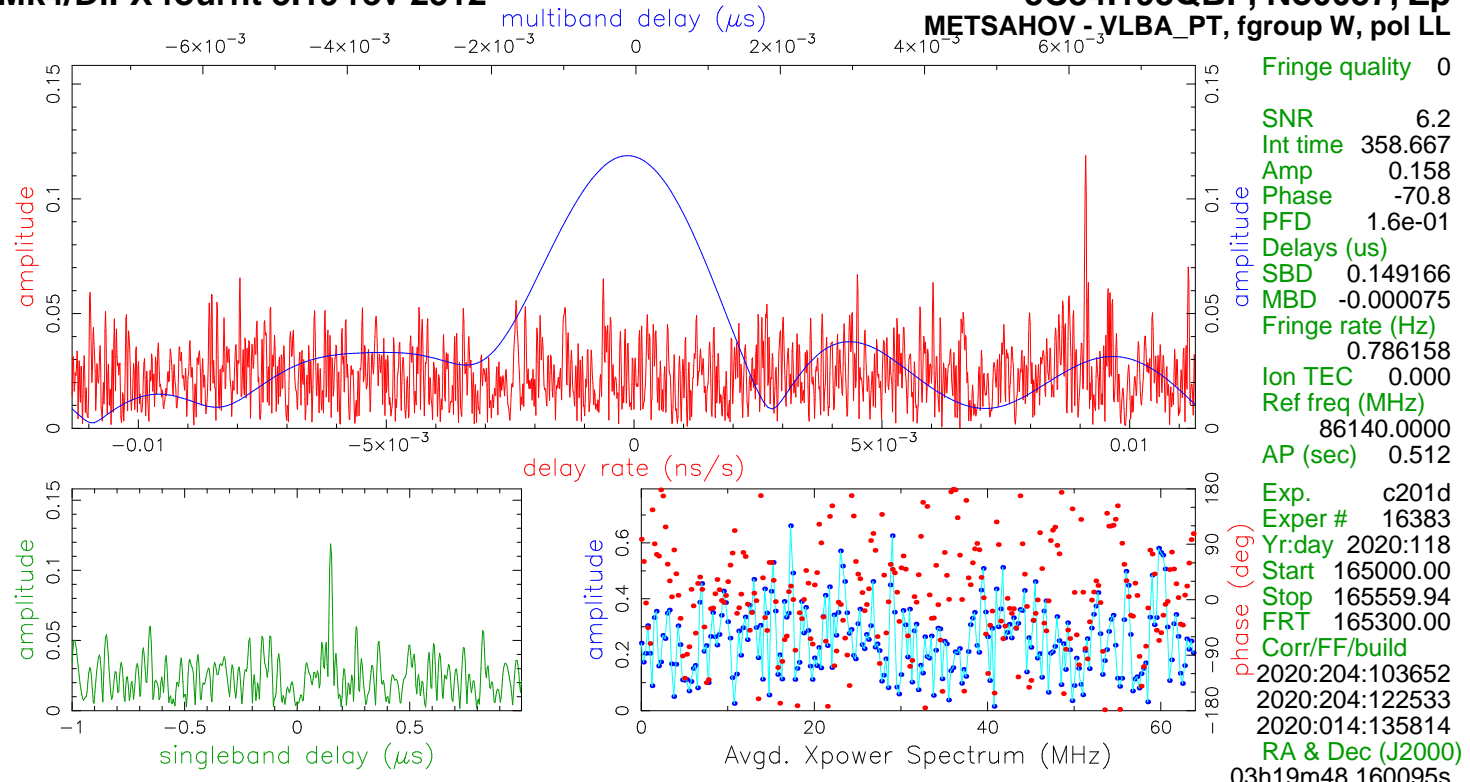
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122535
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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

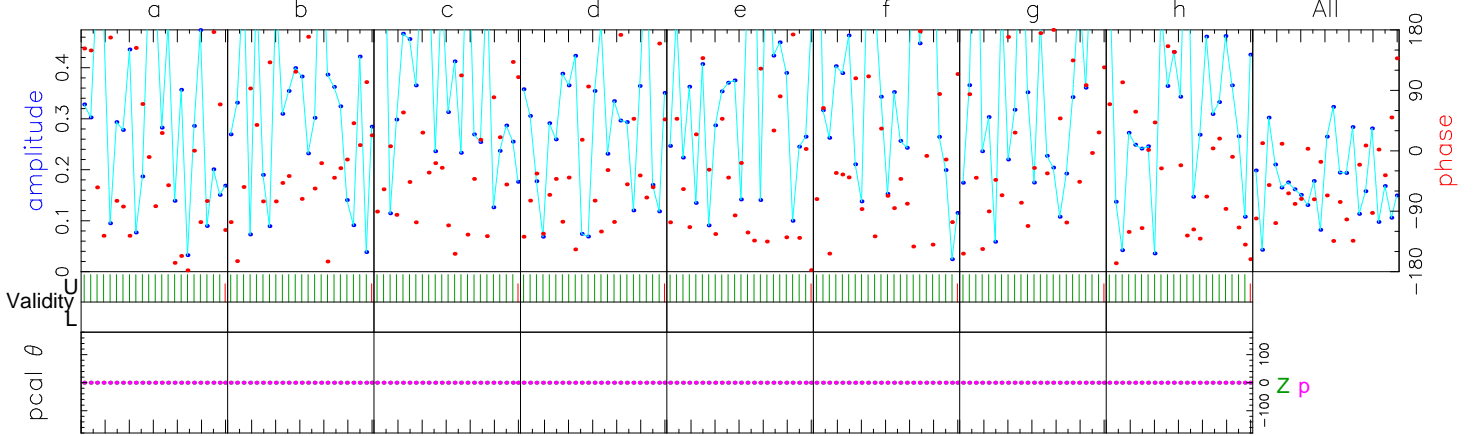


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	124.4	125.7	81.7	99.5	129.9	152.4	95.9	132.5	Phase	119.5
	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	85.1	82.8	265.9	296.8	388.2	97.7	483.6	121.8	Sbd box	58.7
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.88979945358E+03		Apriori delay (usec)		-1.88903132605E+03		Resid mbdelay (usec)		-2.50252E-03	+/- 1.8E-04
Sband delay (usec)	-1.88980575130E+03		Apriori clock (usec)		2.3523680E+01		Resid sbdelay (usec)		-7.74425E-01	+/- 1.4E-03
Phase delay (usec)	-1.88903132220E+03		Apriori clockrate (us/s)		3.2400002E-07		Resid phdelay (usec)		3.85250E-06	+/- 6.1E-07
Delay rate (us/s)	-1.31744450192E+00		Apriori rate (us/s)		-1.31744362811E+00		Resid rate (us/s)		-8.73813E-07	+/- 2.9E-09
Total phase (deg)			Apriori accel (us/s/s)		3.10583624421E-05		Resid phase (deg)		119.5	+/- 18.9

ph/seg (deg) 43.9 45.4 Search (2048X32) 0.114 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 60.0 79.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 25.2 26.8 Inc. seg. avg. 0.110 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 43.6 46.7 Inc. frq. avg. 0.111 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
X: az 281.6 el 44.0 pa 44.9 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 10121.378 3944.637 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Xp..193QBF Output file: /Exps/c201d/v1/1234/No0057/Xp.W.241.193QBF



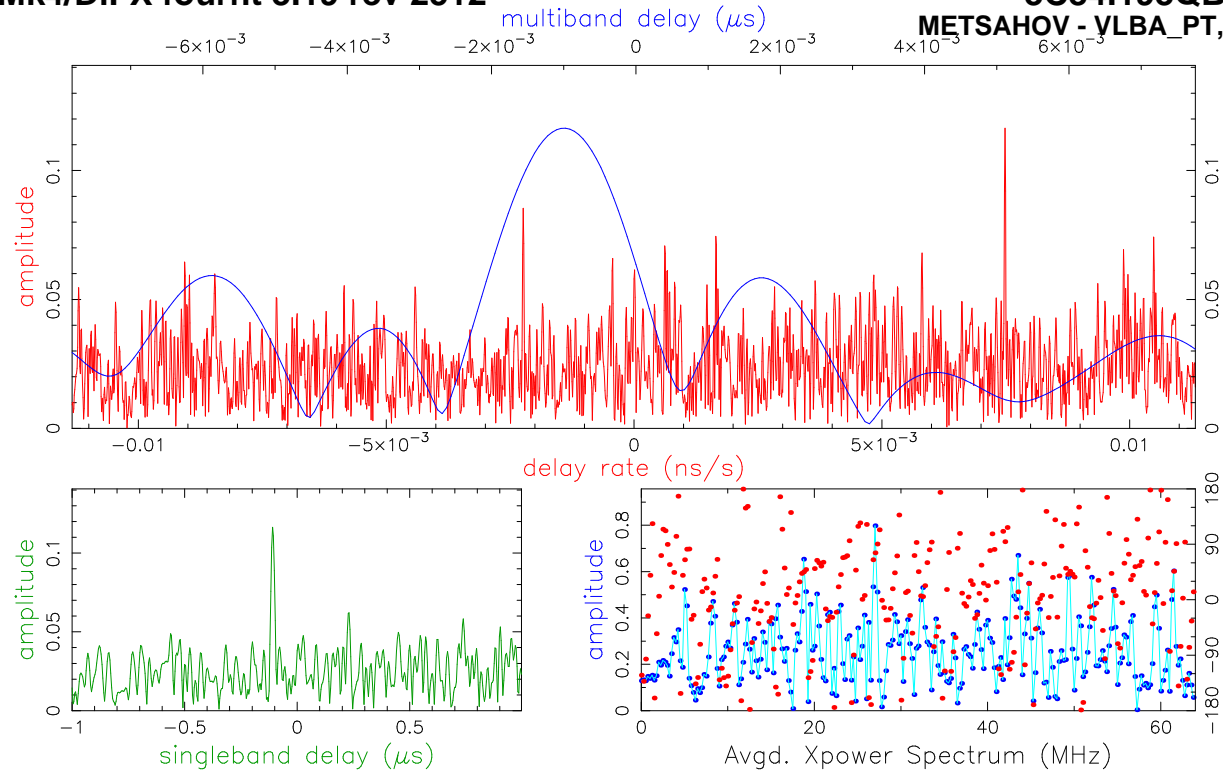
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-91.7	-40.5	-57.1	-78.8	-114.5	-77.1	-46.1	-78.6	Phase	-70.8
	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	Ampl.	0.2
	191.0	171.5	295.6	183.2	225.6	470.3	301.1	82.6	Sbd box	295.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.46599355740E+03		Apriori delay (usec)		-3.46614973215E+03		Resid mbdelay (usec)		-7.52531E-05	+/- 1.8E-04
Sband delay (usec)	-3.4660056615E+03		Apriori clock (usec)		-1.7418974E+01		Resid sbdelay (usec)		1.49166E-01	+/- 1.4E-03
Phase delay (usec)	-3.46614973443E+03		Apriori clockrate (us/s)		-1.8799999E-07		Resid phdelay (usec)		-2.28386E-06	+/- 6.0E-07
Delay rate (us/s)	-1.29883643359E+00		Apriori rate (us/s)		-1.29884556011E+00		Resid rate (us/s)		9.12652E-06	+/- 2.9E-09
Total phase (deg)			Apriori accel (us/s/s)		4.11435678840E-05		Resid phase (deg)		-70.8	+/- 18.6

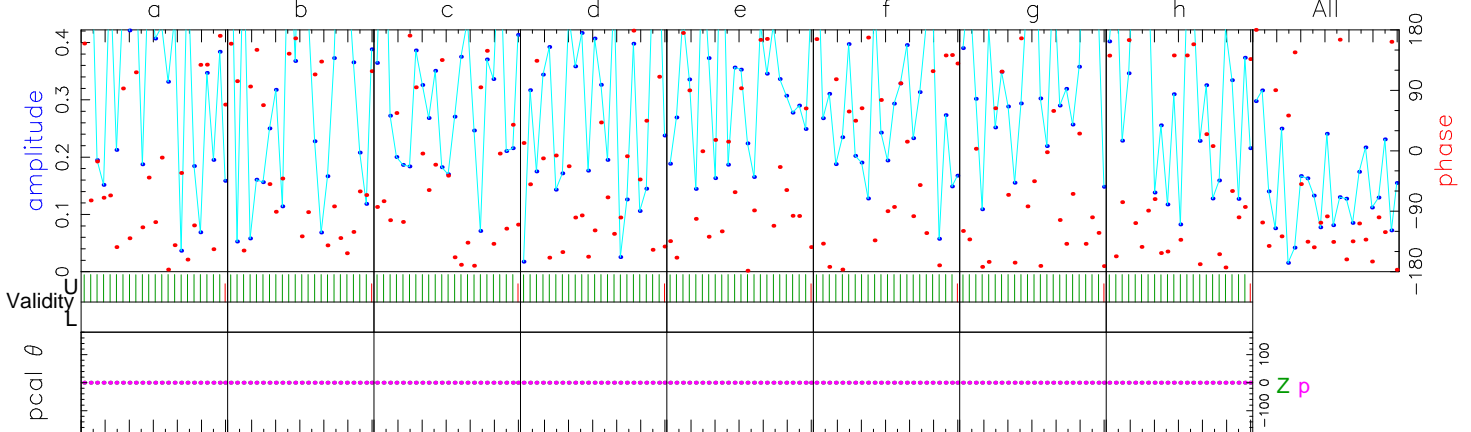
	RMS	Theor.	Amplitude	0.158 +/- 0.026	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	59.0	44.5	Search (2048X32)	0.114	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	78.7	77.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	26.5	26.2	Inc. seg. avg.	0.184	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	29.4	45.8	Inc. frq. avg.	0.153	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00	

Z: az 288.5 el 38.5 pa 39.1 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 9991.149 4818.059 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Zp..193QBF Output file: /Exps/c201d/v1/1234/No0057/Zp.W.237.193QBF



Fringe quality 0
 SNR 6.0
 Int time 358.667
 Amp 0.141
 Phase -133.8
 PFD 3.2e-01
 Delays (us)
 SBD -0.108579
 MBD -0.000960
 Fringe rate (Hz)
 0.646023
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122537
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

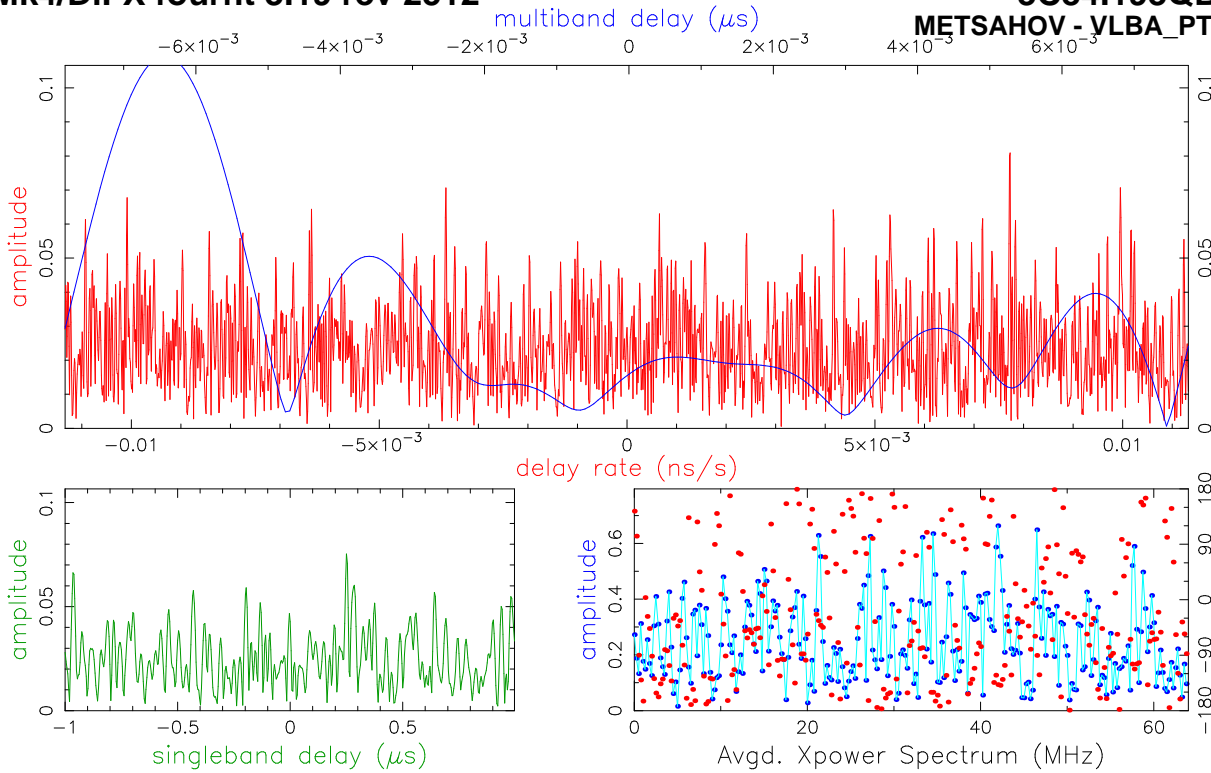
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

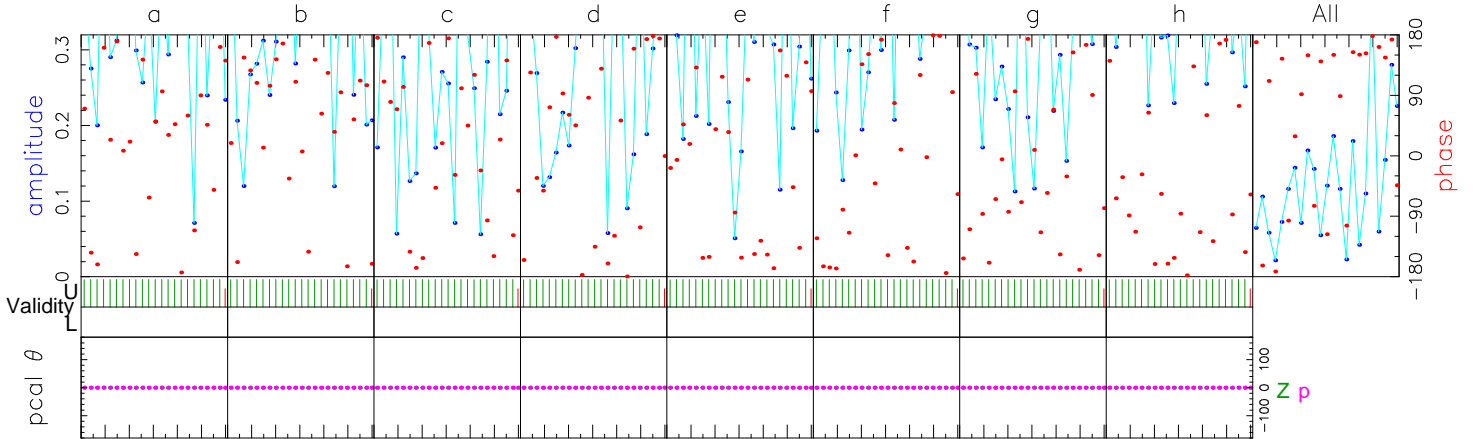
Group delay (usec)(sbd)	-3.46626006761E+03	Apriori delay (usec)	-3.46614973215E+03	Resid mbdelay (usec)	-9.60468E-04	+/-	1.8E-04
Sband delay (usec)	-3.46625831090E+03	Apriori clock (usec)	-1.7418974E+01	Resid sbdelay (usec)	-1.08579E-01	+/-	1.4E-03
Phase delay (usec)	-3.46614973646E+03	Apriori clockrate (us/s)	-1.8799999E-07	Resid phdelay (usec)	-4.31616E-06	+/-	6.1E-07
Delay rate (us/s)	-1.29883806042E+00	Apriori rate (us/s)	-1.29884556011E+00	Resid rate (us/s)	7.49969E-06	+/-	2.9E-09
Total phase (deg)	-107.6	Apriori accel (us/s/s)	4.11435678840E-05	Resid phase (deg)	-133.8	+/-	18.9

ph/seg (deg)	59.5	Theor.	45.4	Amplitude	0.141 +/- 0.023	PCal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	72.5		79.3	Search (2048X32)	0.112	PCal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	33.4		26.8	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	35.2		46.8	Inc. seg. avg.	0.137	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.139	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	



Fringe quality 0
 SNR 3.9
 Int time 358.667
 Amp 0.107
 Phase 167.0
 PFD 1.0e+00
 Delays (us)
 SBD 0.250946
 MBD 0.008301
 Fringe rate (Hz)
 0.858213
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122540
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

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

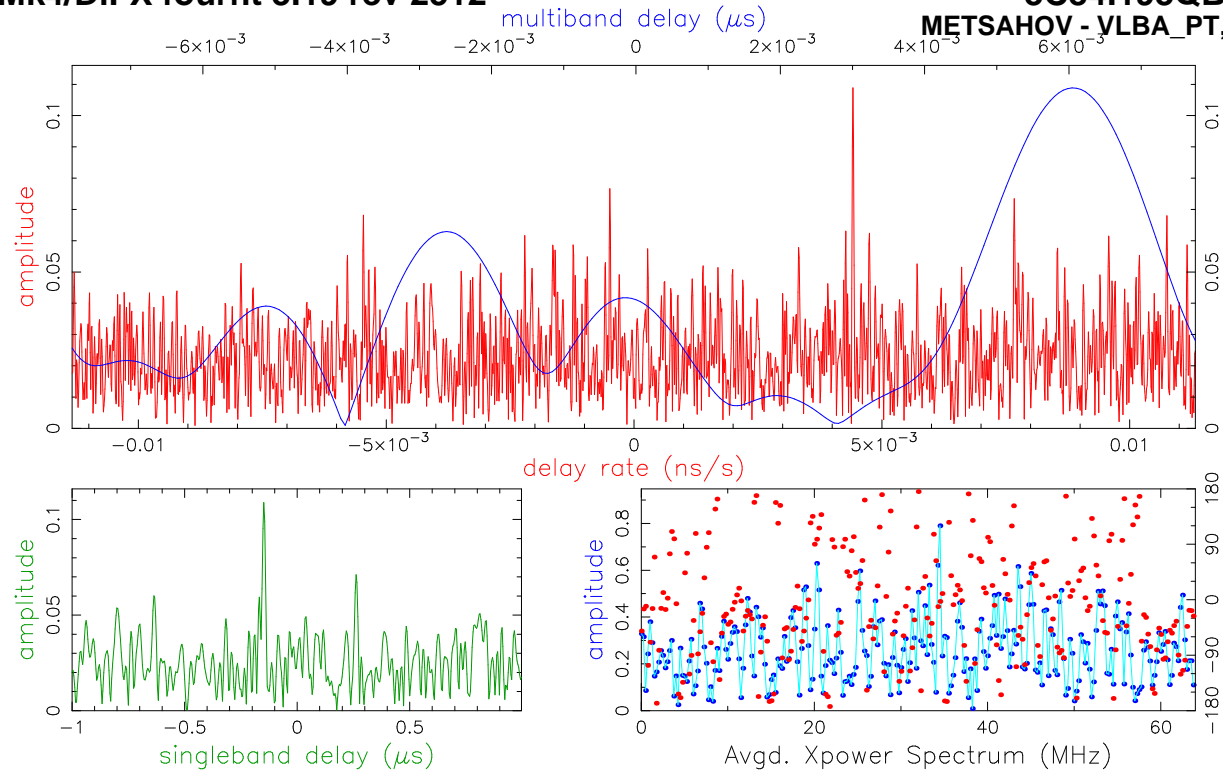


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
89.0	111.2	153.9	160.9	125.6	-163.9	-129.5	-127.8		Phase	167.0
0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2		Ampl.	0.1
101.0	503.0	410.5	95.7	50.9	394.4	410.9	279.5		Sbd box	321.2
U/L 703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		APs used	
Z 1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
p 1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
Z:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
Z:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC	
Z 1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000			
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-3.46589143136E+03	Apriori delay (usec)	-3.46614973215E+03	Resid mbdelay (usec)	8.30078E-03	+/-	2.8E-04
Sband delay (usec)	-3.46589878565E+03	Apriori clock (usec)	-1.7418974E+01	Resid sbdelay (usec)	2.50946E-01	+/-	2.2E-03
Phase delay (usec)	-3.46614972676E+03	Apriori clockrate (us/s)	-1.8799999E-07	Resid phdelay (usec)	5.38647E-06	+/-	9.4E-07
Delay rate (us/s)	-1.29883559711E+00	Apriori rate (us/s)	-1.29884556011E+00	Resid rate (us/s)	9.96300E-06	+/-	4.5E-09
Total phase (deg)	-166.7	Apriori accel (us/s/s)	4.11435678840E-05	Resid phase (deg)	167.0	+/-	29.2

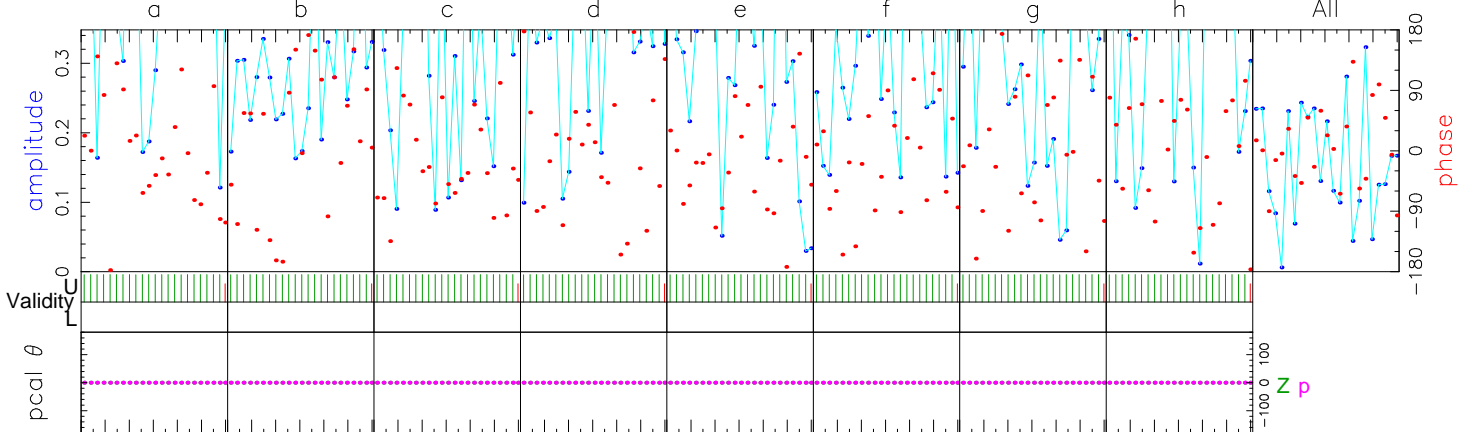
ph/seg (deg)	63.1	RMS	70.0	Theor.	Amplitude	0.107 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	128.9	63.1	70.0	Search (2048X32)	0.107	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	58.1	128.9	122.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	62.6	58.1	41.3	Inc. seg. avg.	0.101	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011 0.011	
		62.6	72.0	Inc. frq. avg.	0.127	Data rate(Mb/s): 2048	ion window (TEC)	0.00 0.00	

Z: az 288.5 el 38.5 pa 39.1 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 9991.149 4818.059 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Zp..193QBF Output file: /Exps/c201d/v1/1234/No0057/Zp.W.254.193QBF



Fringe quality 0
 SNR 5.6
 Int time 358.667
 Amp 0.116
 Phase 1.3
 PFD 9.8e-01
 Delays (us)
 SBD -0.148124
 MBD 0.006070
 Fringe rate (Hz)
 0.380644
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122543
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-3.46629991264E+03								6.06950E-03	+/- 1.9E-04
Sband delay (usec)	-3.46629785640E+03								-1.48124E-01	+/- 1.5E-03
Phase delay (usec)	-3.46614973210E+03								4.32989E-08	+/- 6.5E-07
Delay rate (us/s)	-1.29884114121E+00								4.41890E-06	+/- 3.2E-09
Total phase (deg)			-332.4						1.3	+/- 20.3
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-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) 56.8 48.7 Search (2048X32) 0.107 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 88.0 85.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 46.1 28.7 Inc. seg. avg. 0.123 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 41.7 50.1 Inc. frq. avg. 0.117 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 288.5 el 38.5 pa 39.1 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 9991.149 4818.059 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Zp..193QBF Output file: /Exps/c201d/v1/1234/No0057/Zp.W.260.193QBF