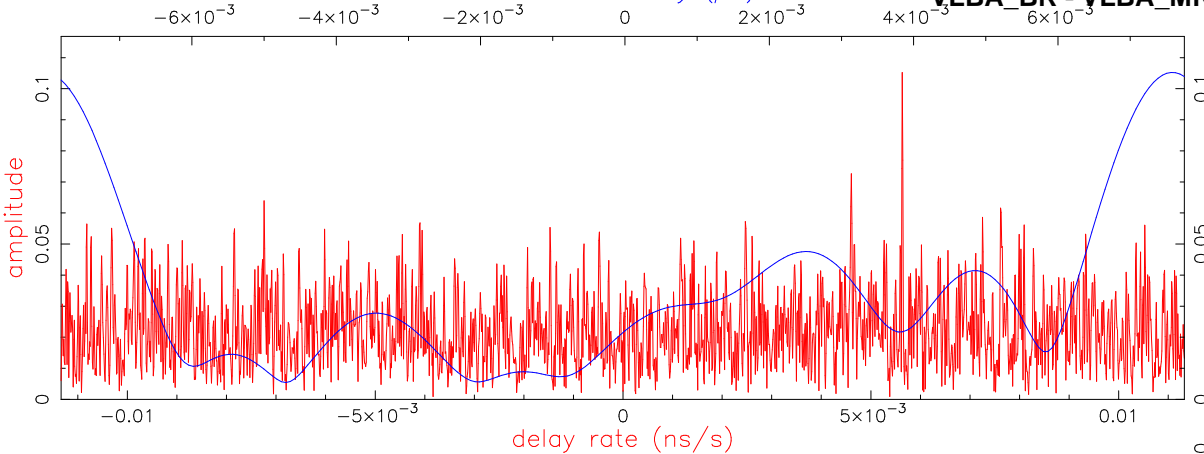
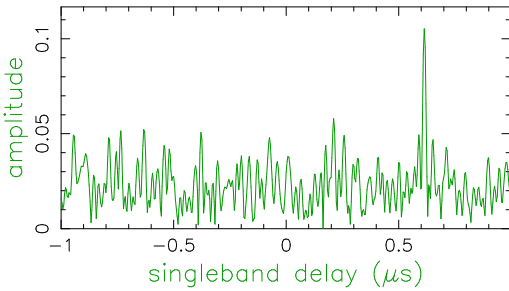


multiband delay (μs)

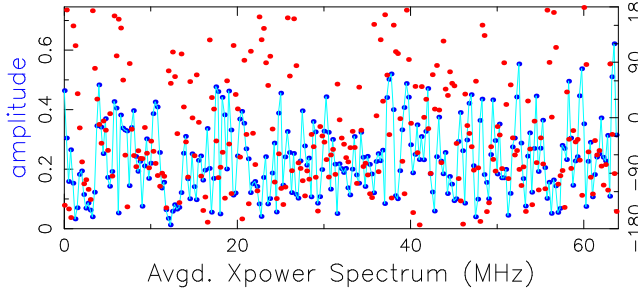


Fringe quality 0

SNR 5.9
Int time 425.207
Amp 0.117
Phase 72.9
PFD 5.2e-01
Delays (us)
SBD 0.613571
MBD 0.007590
Fringe rate (Hz)
0.485974
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

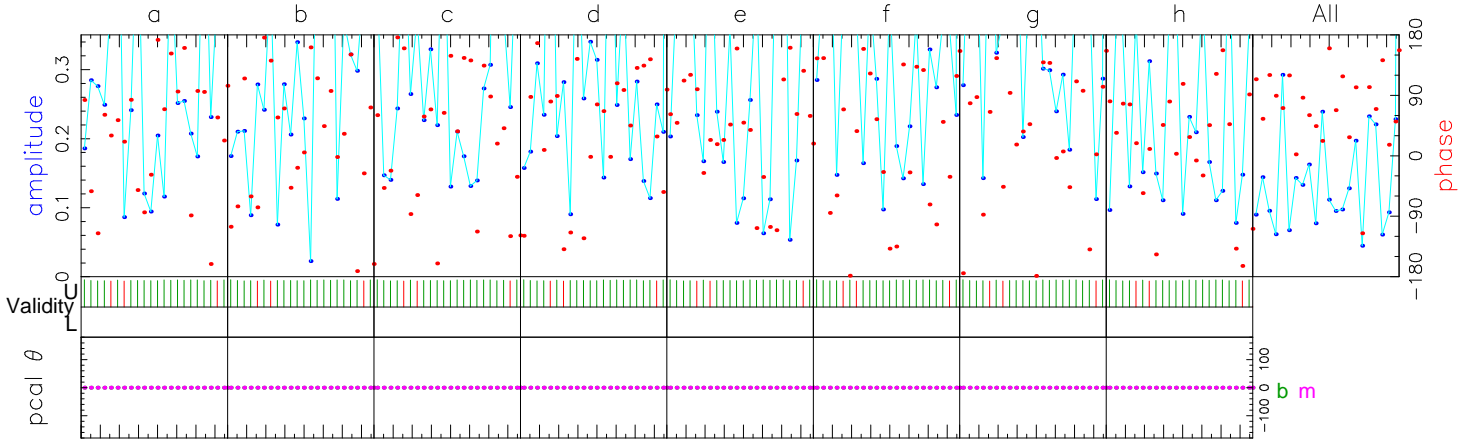


delay rate (ns/s)



Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121321
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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

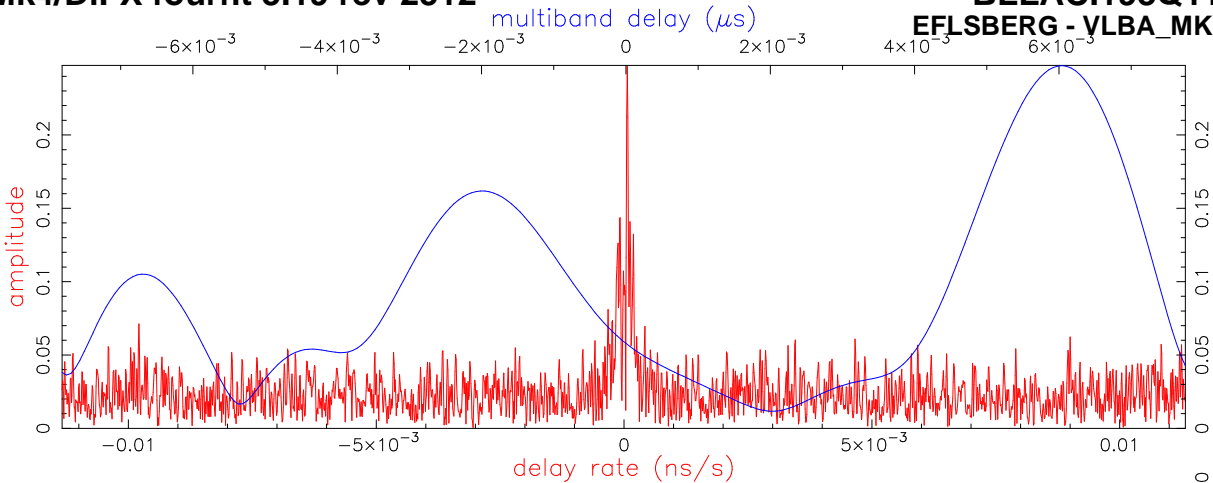


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	65.3	75.9	51.3	84.1	74.3	142.6	88.1	40.2	Phase	72.9
	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	Ampl.	0.1
	480.9	311.9	195.0	58.6	437.9	173.5	414.1	317.4	Sbd box	414.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	6.17390727672E+03	Apriori delay (usec)	6.17329031216E+03	Resid mbdelay (usec)	7.58956E-03	+/-	1.8E-04
Sband delay (usec)	6.17390388316E+03	Apriori clock (usec)	-9.5750341E+00	Resid sbdelay (usec)	6.13571E-01	+/-	1.5E-03
Phase delay (usec)	6.17329031451E+03	Apriori clockrate (us/s)	-5.3299997E-07	Resid phdelay (usec)	2.35099E-06	+/-	6.2E-07
Delay rate (us/s)	-6.39803221176E-01	Apriori rate (us/s)	-6.39808862851E-01	Resid rate (us/s)	5.64167E-06	+/-	2.5E-09
Total phase (deg)	249.1	Apriori accel (us/s/s)	-2.05524056177E-06	Resid phase (deg)	72.9	+/-	19.3

ph/seg (deg)	RMS 55.3	Theor. 46.3	Amplitude 46.3	0.117 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	82.5	80.8	Search (2048X32)	0.099	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	33.7	27.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	33.5	47.6	Inc. seg. avg.	0.116	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
			Inc. frq. avg.	0.114	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

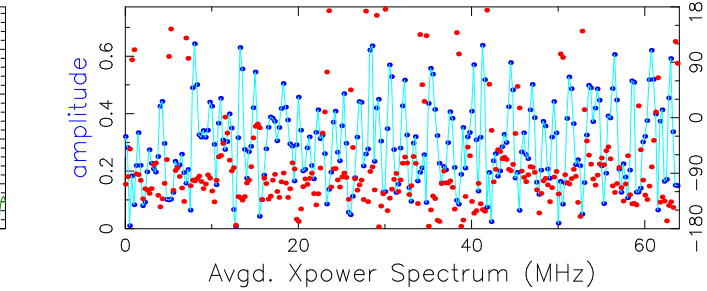
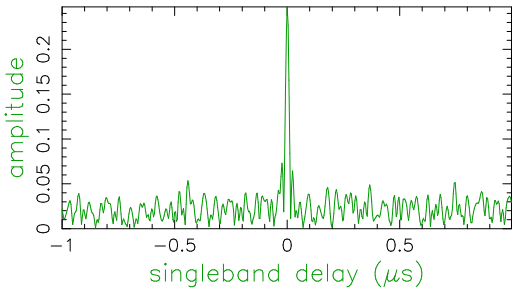
b: az 116.2 el 78.9 pa -53.7 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 4957.082 2431.579 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/bm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/bm.W.10.193Q1T



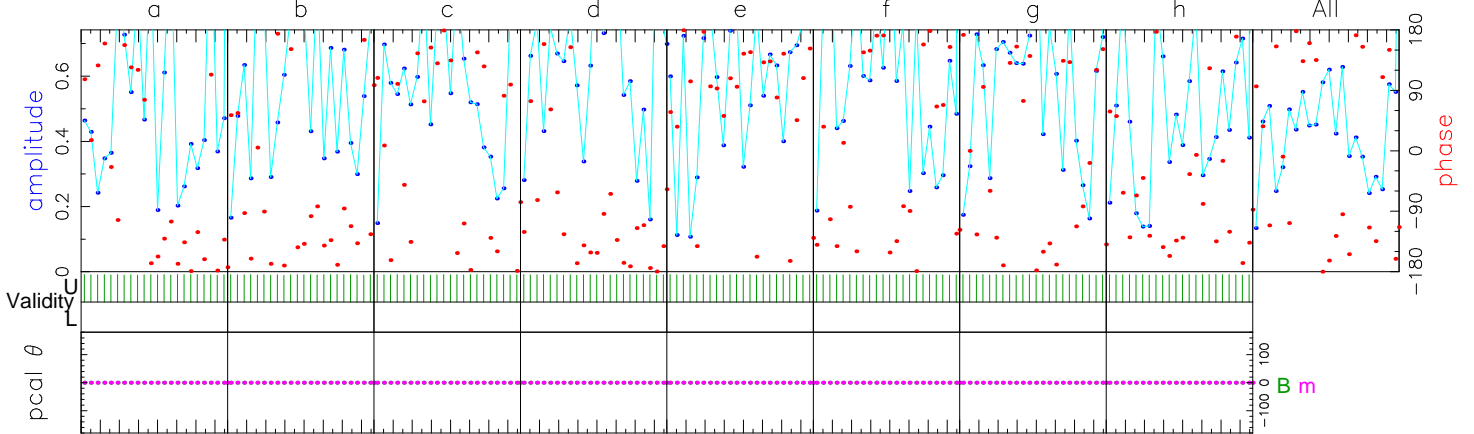
Fringe quality 9

SNR 14.1
Int time 436.206
Amp 0.247
Phase -171.3
PFD 1.5e-36
Delays (us)
SBD 0.000331
MBD 0.006047
Fringe rate (Hz)
0.005440
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121322
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"



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



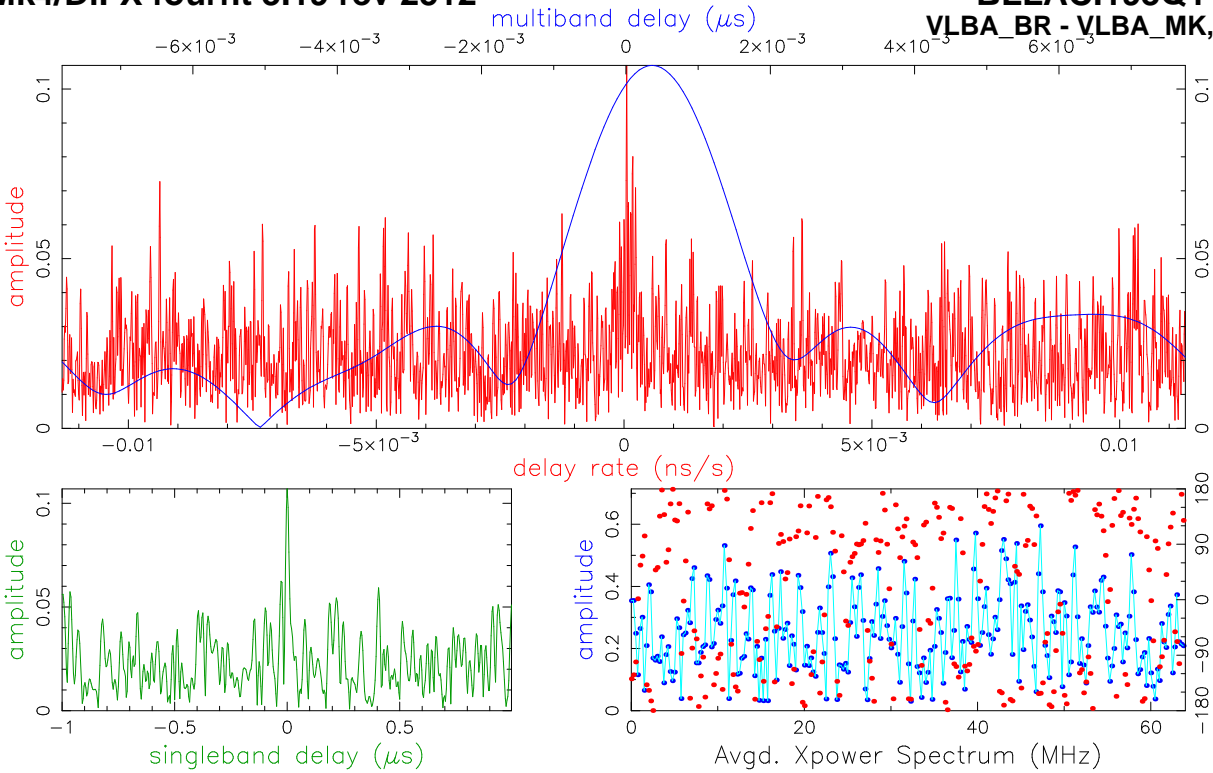
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	179.2	-129.6	159.0	-141.5	125.5	-156.8	170.9	-118.1	Phase	-171.3
	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.2	Ampl.	0.3
	258.5	257.2	256.8	257.4	257.3	257.9	257.4	259.0	Sbd box	257.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-7.79583523492E+03	Apriori delay (usec)	-7.79584128161E+03	Resid mbdelay (usec)	6.04669E-03	+/-	7.7E-05
Sband delay (usec)	-7.79584095086E+03	Apriori clock (usec)	4.8658257E+00	Resid sbdelay (usec)	3.30750E-04	+/-	6.1E-04
Phase delay (usec)	-7.79584128714E+03	Apriori clockrate (us/s)	-6.9099999E-07	Resid phdelay (usec)	-5.52493E-06	+/-	2.6E-07
Delay rate (us/s)	-1.46977831454E+00	Apriori rate (us/s)	-1.46977837769E+00	Resid rate (us/s)	6.31552E-08	+/-	1.0E-09
Total phase (deg)	-170.7	Apriori accel (us/s/s)	7.43771214135E-05	Resid phase (deg)	-171.3	+/-	8.1

ph/seg (deg)	66.0	RMS	19.4	Theor.	0.247 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	91.3	Search (2048X32)	0.241	Amplitude	0.241	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	42.7	Interp.	0.000	Search	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	34.5	Inc. seg. avg.	0.402	Inc. seg. avg.	0.402	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	0.303	Inc. frq. avg.	0.303	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

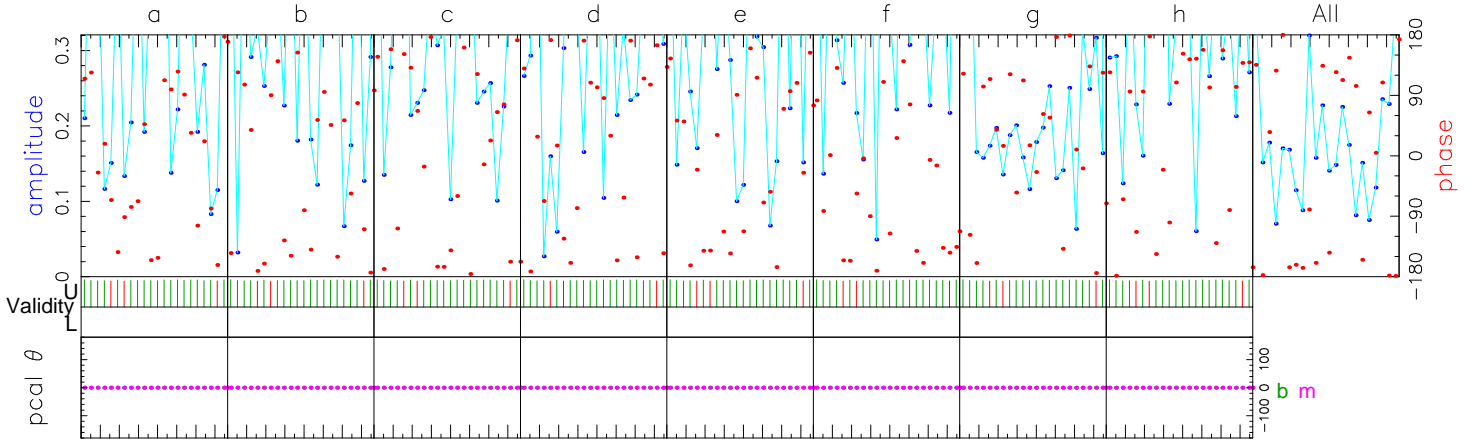
B: az 313.8 el 19.7 pa 37.4 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 11561.712 7987.535 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/Bm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/Bm.W.14.193Q1T



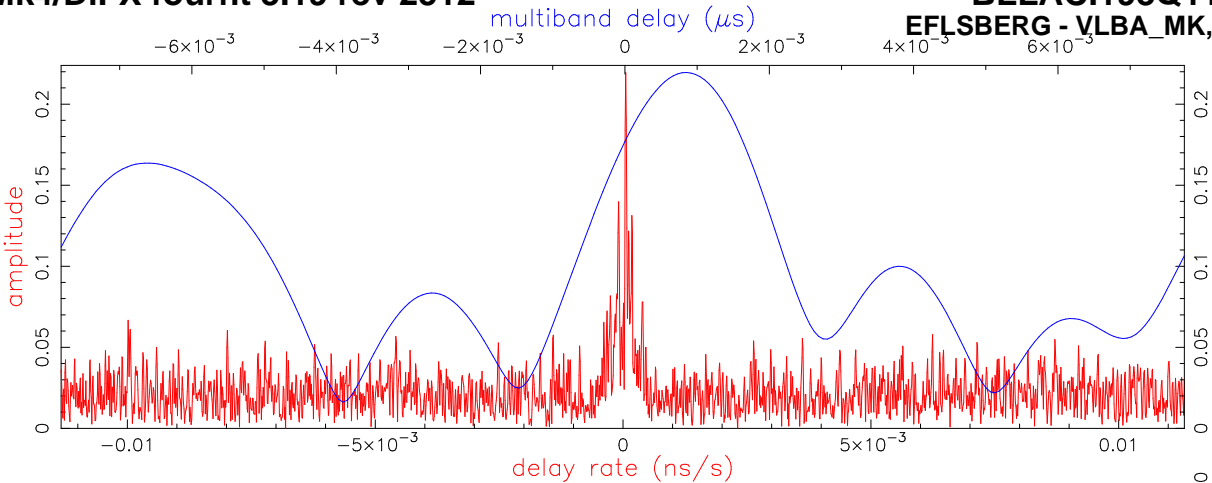
Fringe quality 0
 SNR 6.0
 Int time 425.206
 Amp 0.107
 Phase 161.1
 PFD 3.4e-01
 Delays (us)
 SBD 0.000005
 MBD 0.000364
 Fringe rate (Hz)
 0.004880
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 144500.00
 Stop 145219.81
 FRT 144840.00
 Corr/FF/build
 2020:204:084124
 2020:204:121325
 2020:014:135814
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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

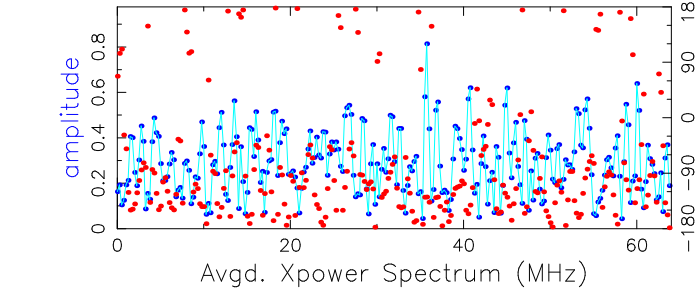
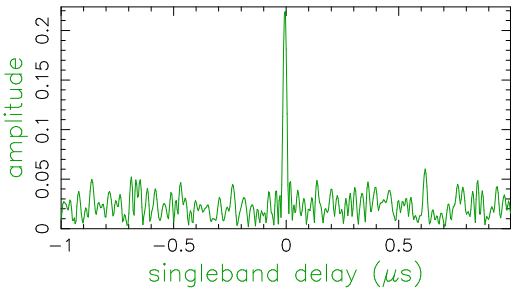


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	152.9	156.7	170.3	156.3	149.1	-161.3	127.3	160.1		
Sband delay (usec)	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2		
Phase delay (usec)	160.9	381.8	315.4	11.1	362.2	86.0	105.3	414.5		
Delay rate (us/s)										
Total phase (deg)			337.3							
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(MSamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

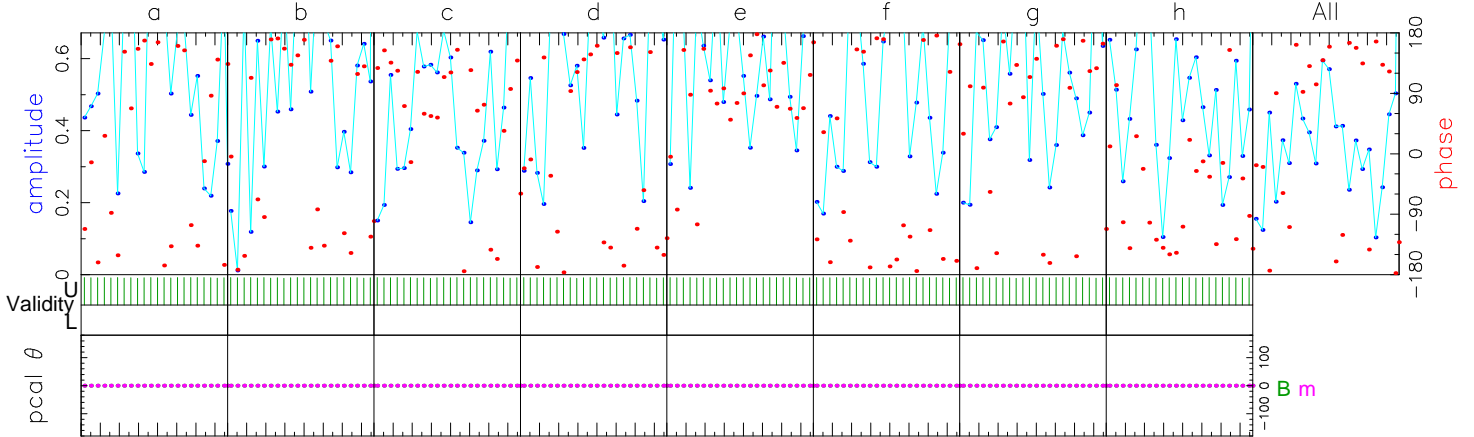
ph/seg (deg) 63.1 45.6 Search (2048X32) 0.105 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 109.6 79.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 21.9 26.9 Inc. seg. avg. 0.138 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 35.6 46.9 Inc. frq. avg. 0.100 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 116.2 el 78.9 pa -53.7 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 4957.082 2431.579 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/bm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/bm.W.28.193Q1T simultaneous interpolator



Fringe quality 9
SNR 12.8
Int time 436.206
Amp 0.224
Phase 162.3
PFD 1.0e-28
Delays (us)
SBD -0.005714
MBD 0.000808
Fringe rate (Hz) 0.005113
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121327
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

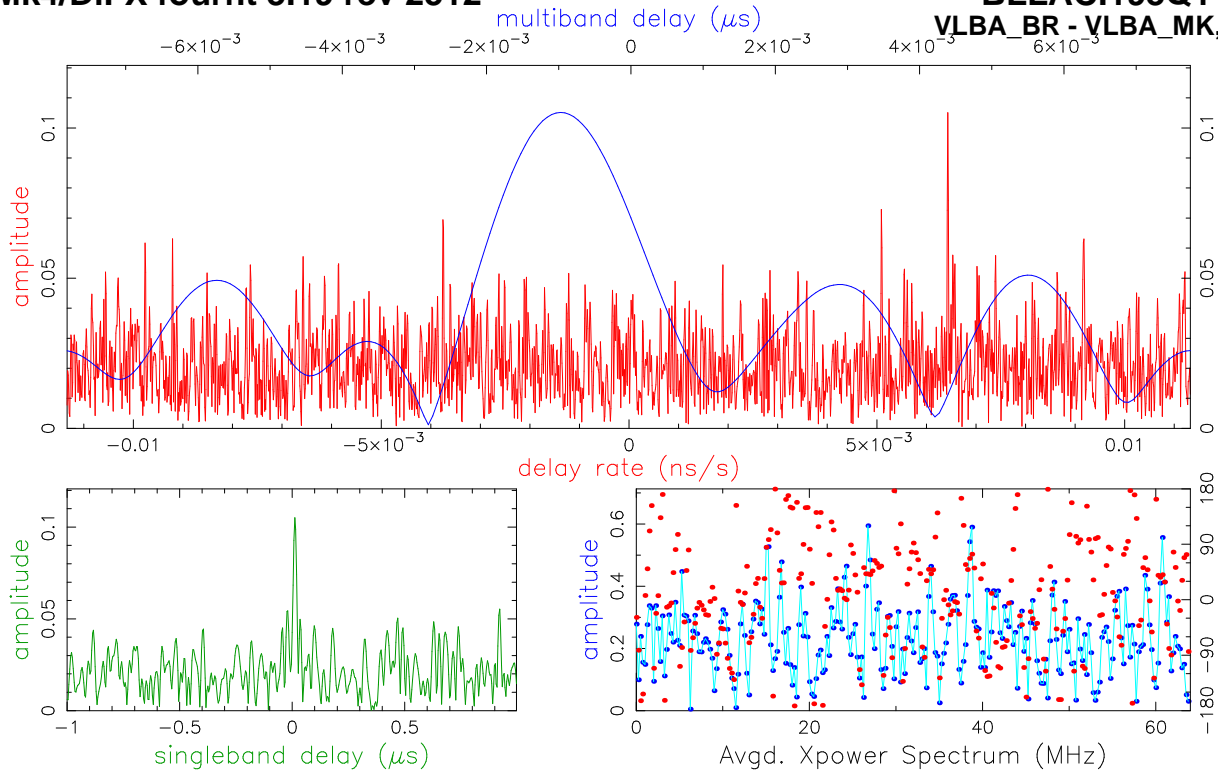


Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



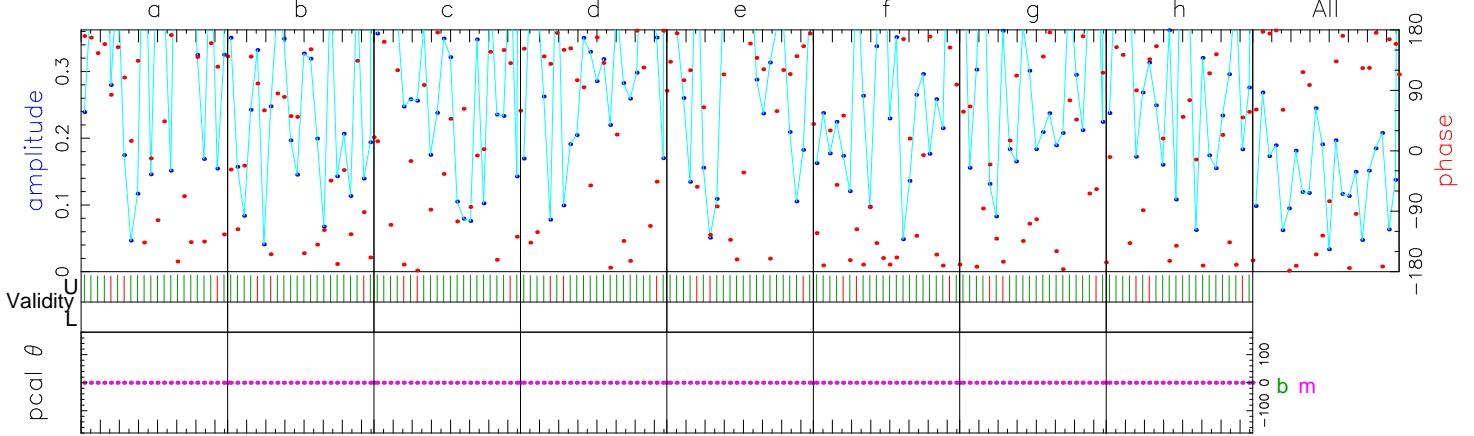
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	173.0	-173.9	106.6	-168.5	100.2	-167.4	143.2	-69.8	Phase	162.3
B	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.2	Ampl.	0.3
m	255.6	255.0	256.2	256.1	256.4	256.5	256.6	257.4	Sbd box	255.5
B	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B	1000	1000	1000	1000	1000	1000	1000	1000	Manl PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-7.79584047342E+03								Resid mbdelay (usec)	8.08195E-04 +/- 8.5E-05
Sband delay (usec)	-7.79584699586E+03								Resid sbdelay (usec)	-5.71425E-03 +/- 6.7E-04
Phase delay (usec)	-7.79584127638E+03								Resid phdelay (usec)	5.23222E-06 +/- 2.9E-07
Delay rate (us/s)	-1.46977831833E+00								Resid rate (us/s)	5.93580E-08 +/- 1.1E-09
Total phase (deg)		-197.1							Resid phase (deg)	162.3 +/- 9.0
ph/seg (deg)	RMS 74.1	Theor. 21.5	Amplitude Search (2048X32)	0.224 +/- 0.018	0.214	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		sb window (us)	-1.000 1.000
amp/seg (%)	86.1	37.5	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)	66.0	12.7	Inc. seg. avg.	0.333		Bits/sample: 2x2	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011
amp/frq (%)	49.5	22.1	Inc. frq. avg.	0.307		Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00

B: az 313.8 el 19.7 pa 37.4 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 11561.712 7987.535 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/Bm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/Bm.W.35.193Q1T



Fringe quality 0
SNR 5.9
Int time 425.207
Amp 0.121
Phase 172.0
PFD 5.1e-01
Delays (us)
SBD 0.012438
MBD -0.000927
Fringe rate (Hz)
0.555029
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121330
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



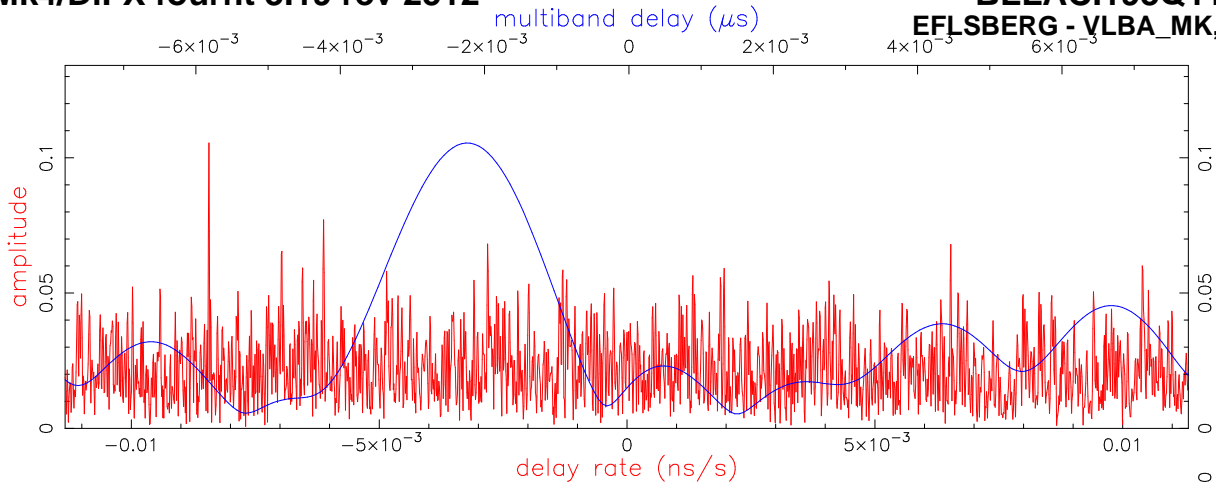
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-179.6	146.4	147.8	176.3	157.0	-161.8	-139.4	137.5	Phase	172.0
	0.2	0.0	0.1	0.2	0.2	0.2	0.1	0.1	Ampl.	0.1
	260.0	166.8	29.6	257.8	260.9	145.9	411.2	263.2	Sbd box	260.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.17330501029E+03		Apriori delay (usec)		6.17329031216E+03		Resid mbdelay (usec)		-9.26873E-04	+/- 1.8E-04
Sband delay (usec)	6.17330275041E+03		Apriori clock (usec)		-9.5750341E+00		Resid sbdelay (usec)		1.24382E-02	+/- 1.4E-03
Phase delay (usec)	6.17329031771E+03		Apriori clockrate (us/s)		-5.3299997E-07		Resid phdelay (usec)		5.54579E-06	+/- 6.2E-07
Delay rate (us/s)	-6.39802419516E-01		Apriori rate (us/s)		-6.39808862851E-01		Resid rate (us/s)		6.44333E-06	+/- 2.4E-09
Total phase (deg)	348.2		Apriori accel (us/s/s)		-2.05524056177E-06		Resid phase (deg)		172.0	+/- 19.3

	RMS	Theor.	Amplitude	0.121 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	55.2	46.2	Search (2048X32)	0.104	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	73.8	80.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	31.1	27.3	Inc. seg. avg.	0.124	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	56.6	47.6	Inc. frq. avg.	0.117	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 116.2 el 78.9 pa -53.7 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 4957.082 2431.579 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/bm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/bm.W.50.193Q1T

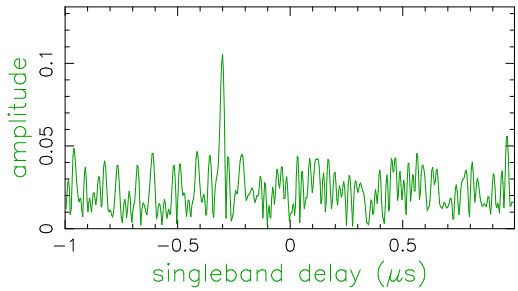
Mk4/DiFX fourfit 3.19 rev 2512

BLLAC.193Q1T, No0048, Bm
EFLSBERG - VLBA_MK, fgroup W, pol LR

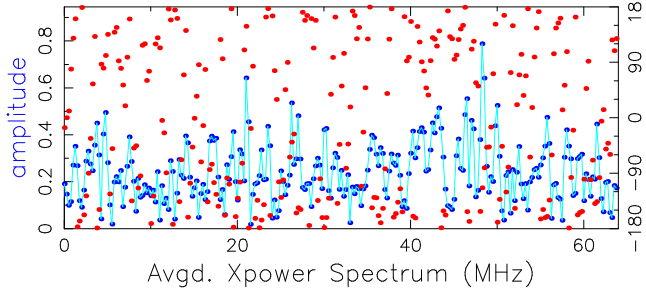


Fringe quality 0

SNR 6.0
Int time 436.206
Amp 0.134
Phase -22.9
PFD 3.5e-01
Delays (us)
SBD -0.301160
MBD -0.002248
Fringe rate (Hz)
-0.727661
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

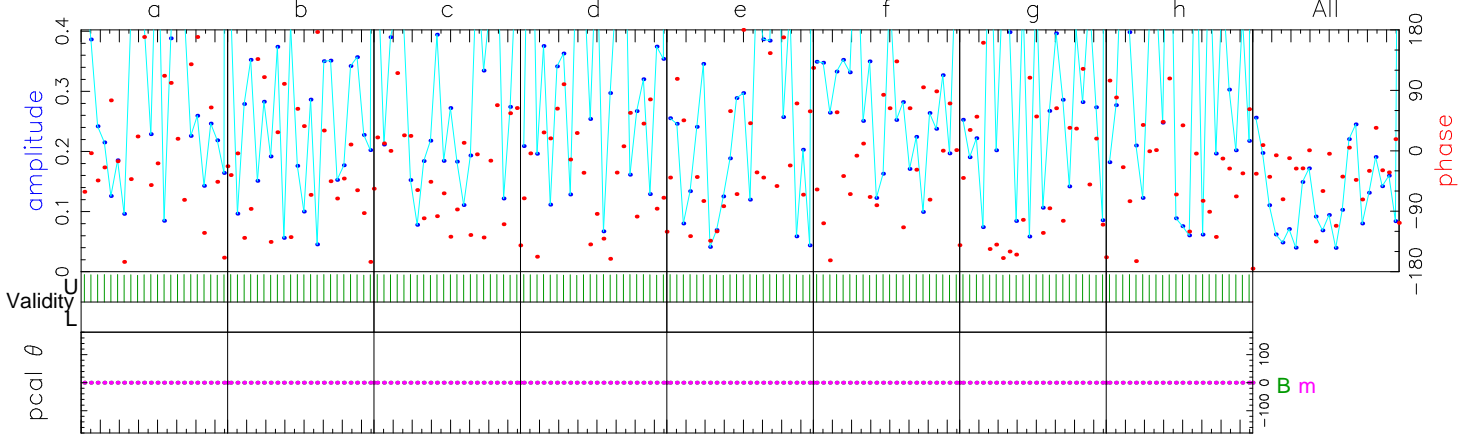


delay rate (ns/s)



Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121334
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-16.6	-50.6	0.7	-18.5	-50.3	-13.1	-95.4	-10.2	Phase	-22.9
	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	Ampl.	0.1
	393.5	151.5	447.7	123.3	204.8	170.4	340.2	24.1	Sbd box	179.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

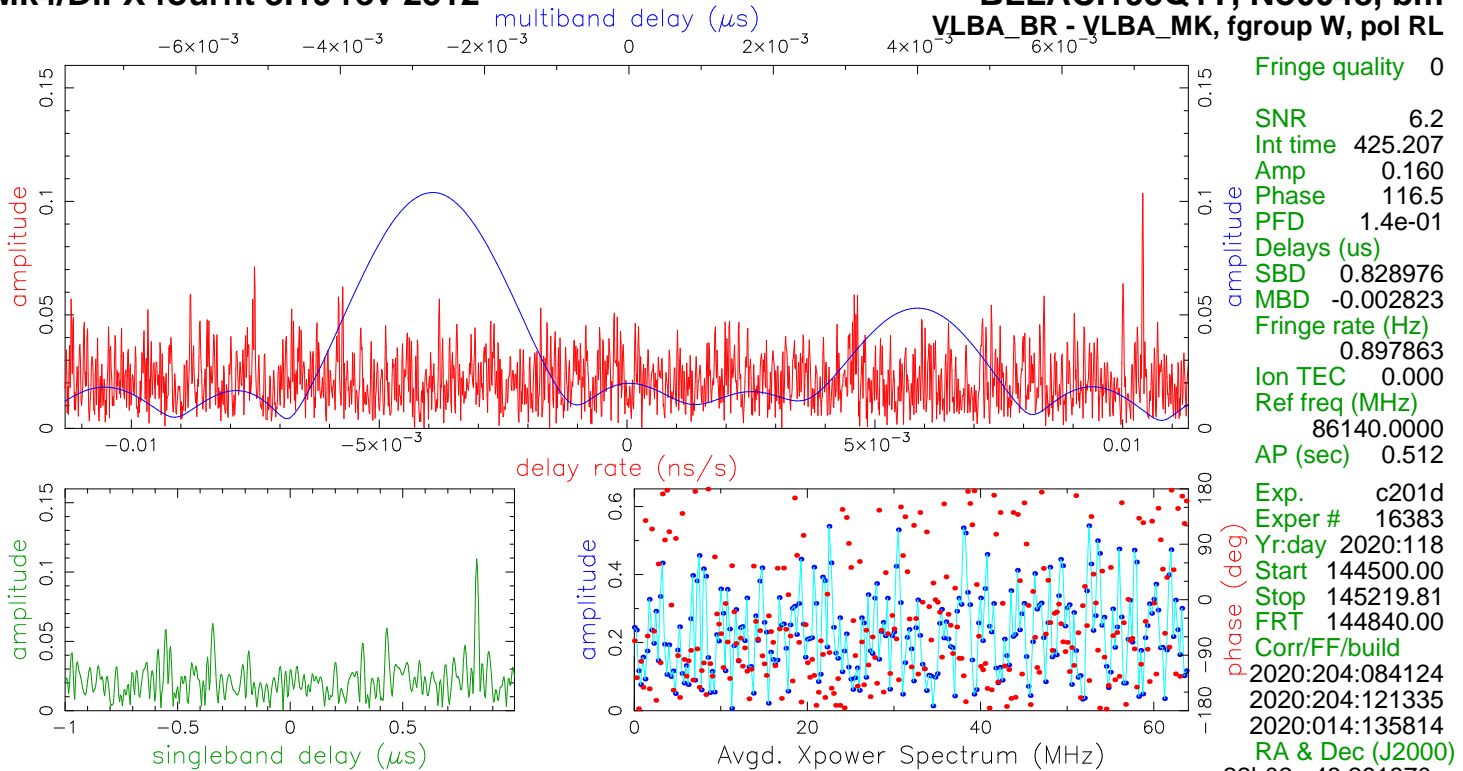
Group delay (usec)(sbd) -7.79614040418E+03 Apriori delay (usec) -7.79584128161E+03 Resid mbdelay (usec) -2.24756E-03 +/- 1.8E-04
 Sband delay (usec) -7.79614244136E+03 Apriori clock (usec) 4.8658257E+00 Resid sbdelay (usec) -3.01160E-01 +/- 1.4E-03
 Phase delay (usec) -7.79584128235E+03 Apriori clockrate (us/s) -6.9099999E-07 Resid phdelay (usec) -7.39507E-07 +/- 6.1E-07
 Delay rate (us/s) -1.46978682512E+00 Apriori rate (us/s) -1.46977837769E+00 Resid rate (us/s) -8.44742E-06 +/- 2.4E-09
 Total phase (deg) -22.3 Apriori accel (us/s/s) 7.43771214135E-05 Resid phase (deg) -22.9 +/- 19.0

RMS Theor. Amplitude 0.134 +/- 0.022 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 40.4 45.6 Search (2048X32) 0.104 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 71.1 79.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 35.7 26.9 Inc. seg. avg. 0.122 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 33.5 46.9 Inc. frq. avg. 0.130 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

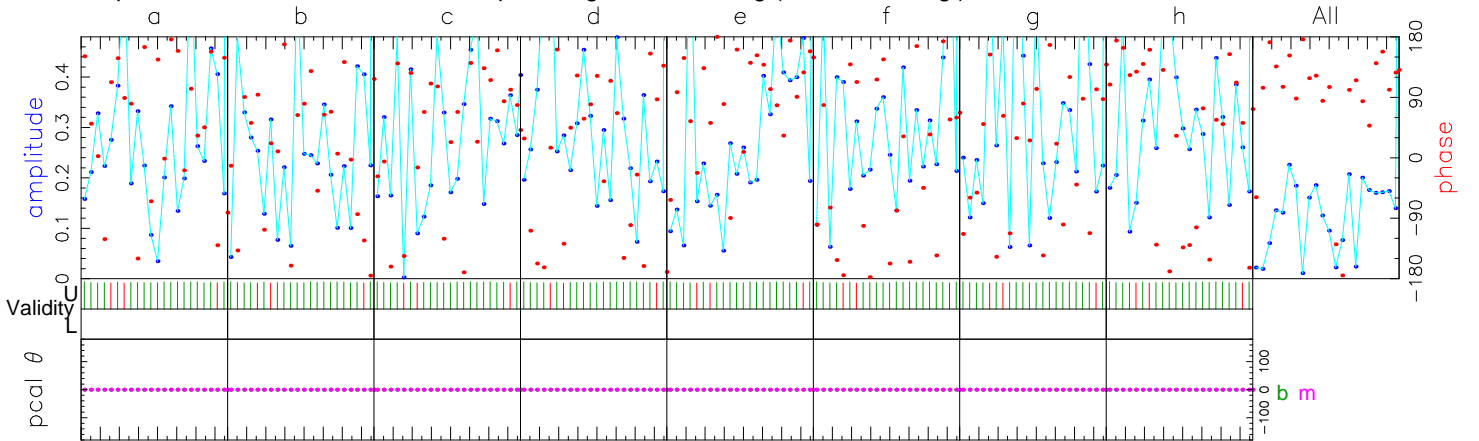
B: az 313.8 el 19.7 pa 37.4 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 11561.712 7987.535 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/Bm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/Bm.W.67.193Q1T

Mk4/DiFX fourfit 3.19 rev 2512

BLLAC.193Q1T, No0048, bm
VLBA_BR - VLBA_MK, fgroup W, pol RL



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

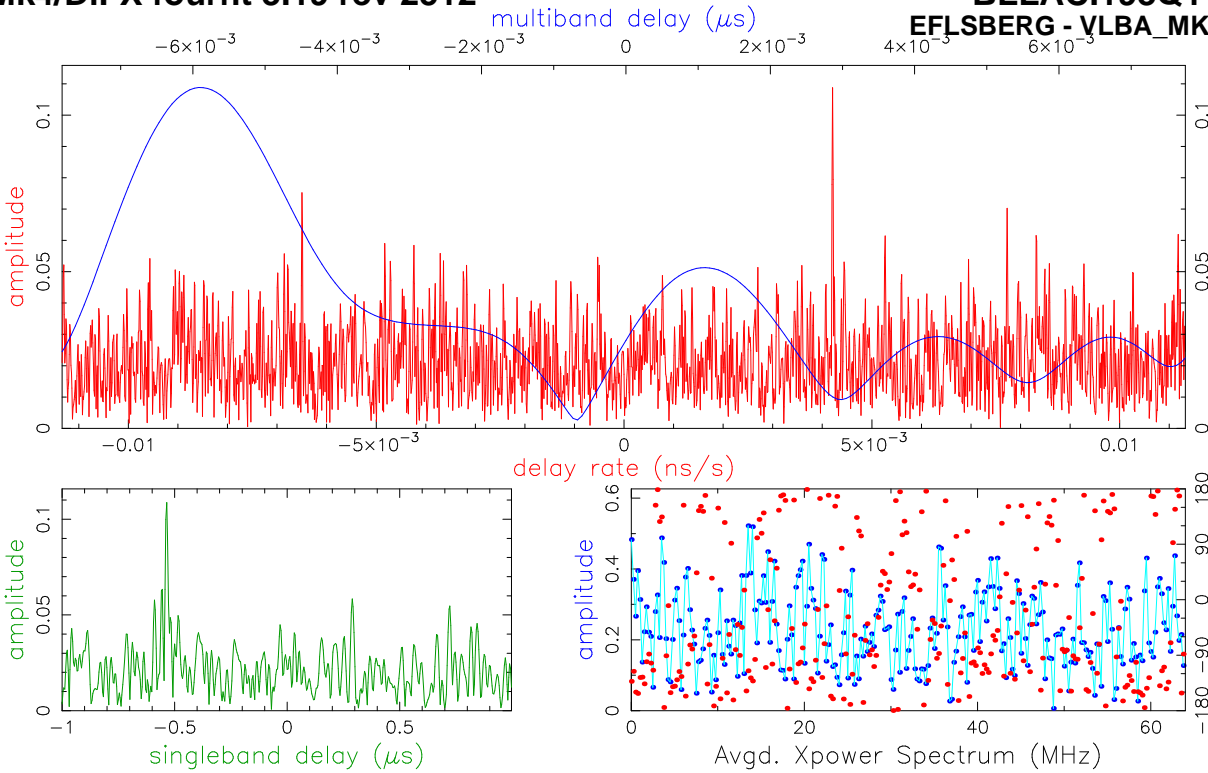


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
123.6	90.4	108.9	128.5	103.0	133.5	91.1	142.5	142.5	Phase	116.5
0.2	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.2	Ampl.	0.1
432.9	7.7	350.9	185.9	245.3	169.9	324.0	107.3	107.3	Sbd box	469.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.17411561392E+03		Apriori delay (usec)	6.17329031216E+03	Resid mbdelay (usec)	-2.82324E-03	+/-	1.8E-04		
Sband delay (usec)	6.17411928816E+03		Apriori clock (usec)	-9.5750341E+00	Resid sbdelay (usec)	8.28976E-01	+/-	1.4E-03		
Phase delay (usec)	6.17329031592E+03		Apriori clockrate (us/s)	-5.3299997E-07	Resid phdelay (usec)	3.75637E-06	+/-	6.0E-07		
Delay rate (us/s)	-6.39798439557E-01		Apriori rate (us/s)	-6.39808862851E-01	Resid rate (us/s)	1.04233E-05	+/-	2.3E-09		
Total phase (deg)		292.7	Apriori accel (us/s/s)	-2.05524056177E-06	Resid phase (deg)	116.5	+/-	18.5		

	RMS	Theor.	Amplitude	0.160 +/- 0.026	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	55.9	44.4	Search (2048X32)	0.099	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	70.5	77.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	21.3	26.2	Inc. seg. avg.	0.140	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	31.2	45.7	Inc. frq. avg.	0.143	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 116.2 el 78.9 pa -53.7 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 4957.082 2431.579 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/bm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/bm.W.69.193Q1T

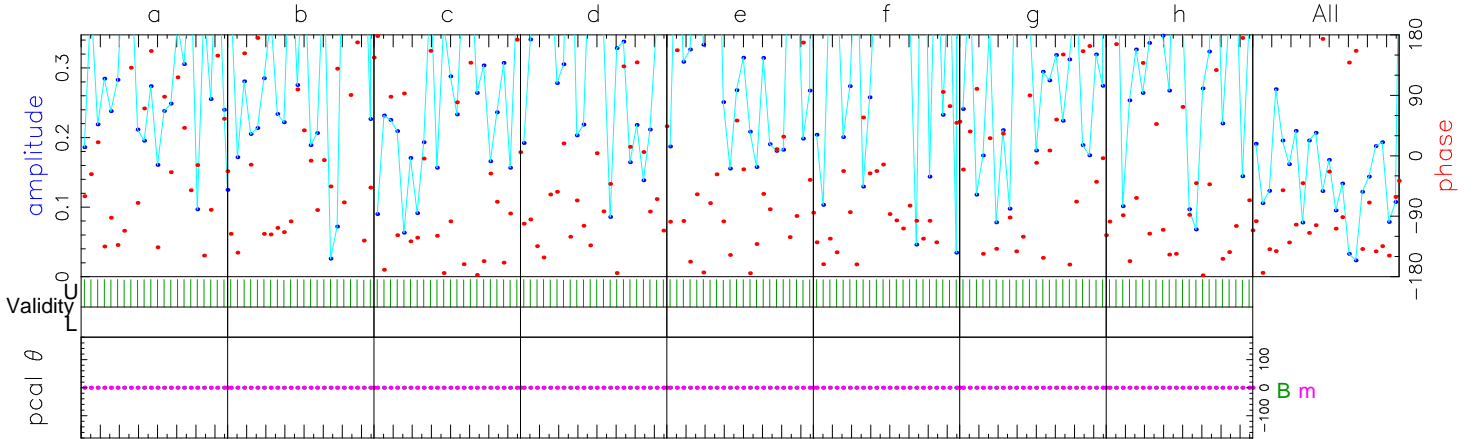


Fringe quality 0

SNR 6.2
Int time 436.206
Amp 0.116
Phase -112.4
PFD 1.1e-01
Delays (us)
SBD -0.535987
MBD -0.005941
Fringe rate (Hz) 0.362484
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

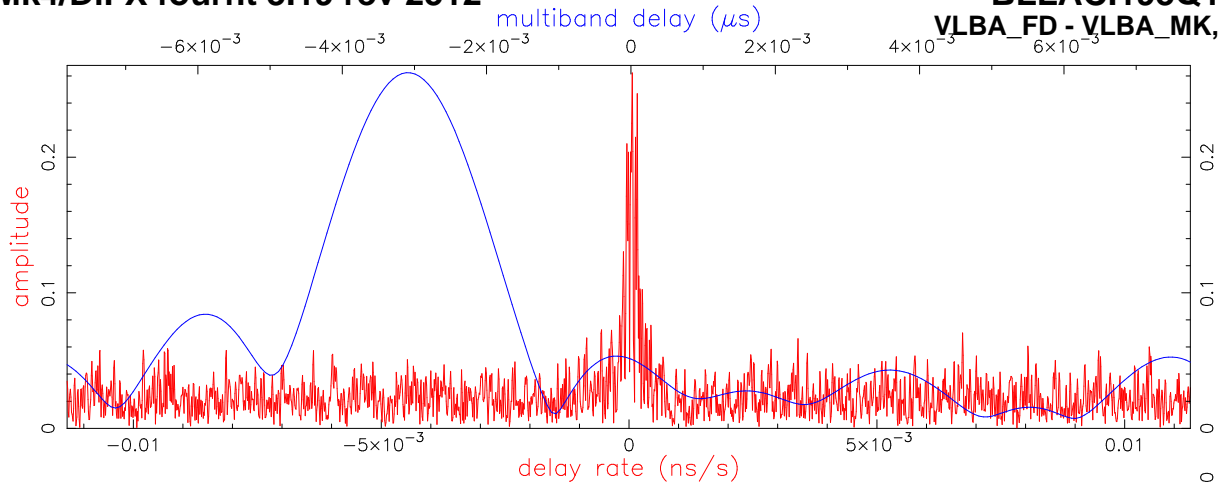
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121338
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



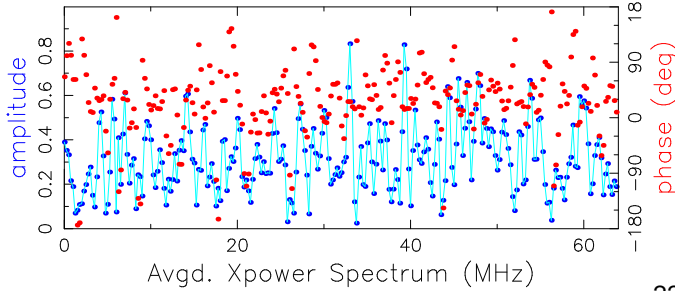
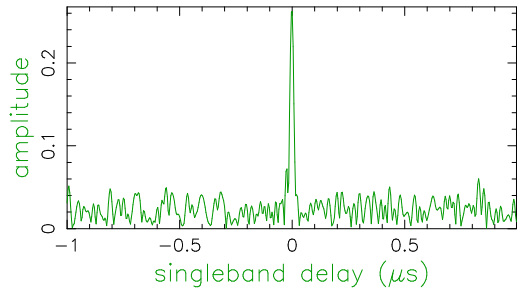
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-117.5	-106.6	-166.9	-102.3	-87.3	-98.7	-56.6	-139.8	Phase	-112.4
	0.0	0.1	0.1	0.2	0.2	0.2	0.0	0.2	Ampl.	0.1
	329.9	322.9	233.6	120.8	119.0	120.5	42.5	74.3	Sbd box	119.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-7.79637847264E+03		Apriori delay (usec)		-7.79584128161E+03		Resid mbdelay (usec)		-5.94102E-03	+/- 1.7E-04
Sband delay (usec)	-7.79637726836E+03		Apriori clock (usec)		4.8658257E+00		Resid sbdelay (usec)		-5.35987E-01	+/- 1.4E-03
Phase delay (usec)	-7.79584128524E+03		Apriori clockrate (us/s)		-6.9099999E-07		Resid phdelay (usec)		-3.62499E-06	+/- 5.9E-07
Delay rate (us/s)	-1.46977416962E+00		Apriori rate (us/s)		-1.46977837769E+00		Resid rate (us/s)		4.20807E-06	+/- 2.3E-09
Total phase (deg)			Apriori accel (us/s/s)		7.43771214135E-05		Resid phase (deg)		-112.4	+/- 18.3

ph/seg (deg) 50.9 44.0 Search (2048X32) 0.107 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 63.6 76.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 36.1 25.9 Inc. seg. avg. 0.117 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 54.8 45.3 Inc. frq. avg. 0.118 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 313.8 el 19.7 pa 37.4 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 11561.712 7987.535 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/Bm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/Bm.W.83.193Q1T simultaneous interpolator



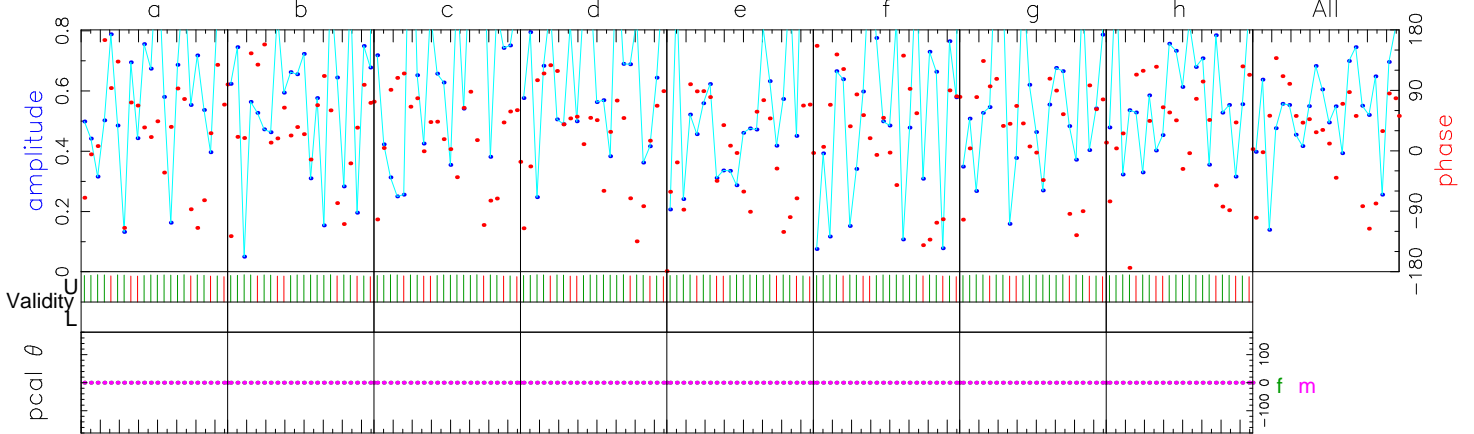
Fringe quality 9

SNR 15.1
Int time 424.747
Amp 0.268
Phase 45.1
PFD 1.2e-42
Delays (us)
SBD -0.001890
MBD -0.003122
Fringe rate (Hz)
0.005789
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121343
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



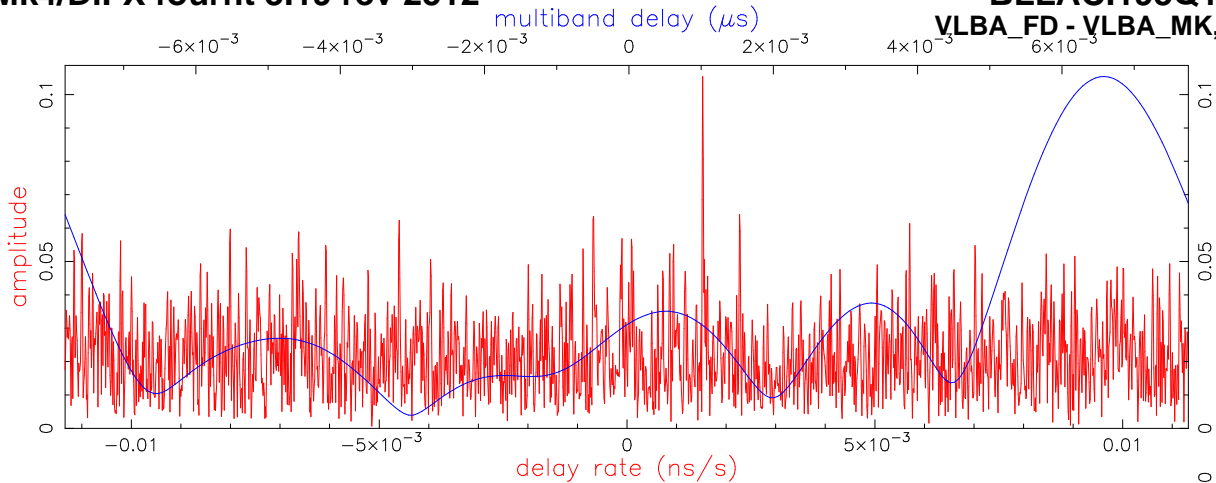
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	54.5	43.1	32.4	50.3	28.6	50.0	58.0	45.9		
Sband delay (usec)	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.2		
Phase delay (usec)	257.3	256.1	256.5	256.9	256.3	257.4	256.4	256.0		
Delay rate (us/s)										
Total phase (deg)			220.9							
Apriori delay (usec)		6.06707022955E+03			6.06707335139E+03					
Apriori clock (usec)		6.06707146114E+03			-4.2436285E+00					
Apriori clockrate (us/s)		6.06707335284E+03			-3.8199999E-07					
Apriori rate (us/s)		-8.62073018148E-01			-8.62073085355E-01					
Apriori accel (us/s/s)					-1.93305717640E-05					
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									45.1	+/- 7.2E-05
PCal mode:										
PCal rate:										
Bits/sample:										
Sample rate (MSamp/s):										
Data rate (Mb/s):										
PC period (AP's)									5, 5	
sb window (us)										-1.000 1.000
mb window (us)										-0.008 0.008
dr window (ns/s)										-0.011 0.011
ion window (TEC)										0.00 0.00

ph/seg (deg) 71.1 18.2
amp/seg (%) 116.6 31.8
ph/frq (deg) 11.1 10.7
amp/frq (%) 18.0 18.7

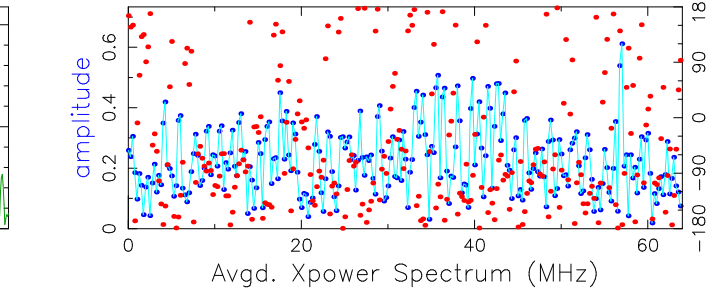
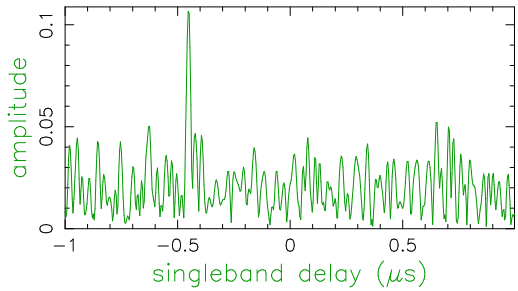
f: az 352.0 el 78.1 pa 171.0 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 6638.533 -369.997

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/fm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/fm.W.101.193Q1T

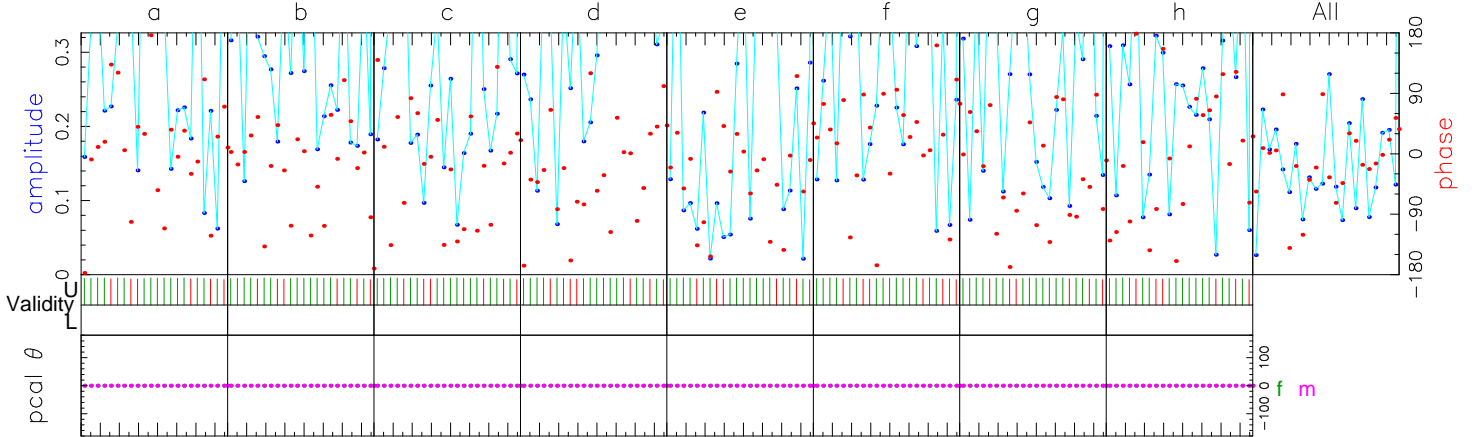
simultaneous interpolator



Fringe quality 0
SNR 6.1
Int time 424.747
Amp 0.109
Phase -3.7
PFD 2.7e-01
Delays (us)
SBD -0.451433
MBD 0.006545
Fringe rate (Hz)
0.131392
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121347
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

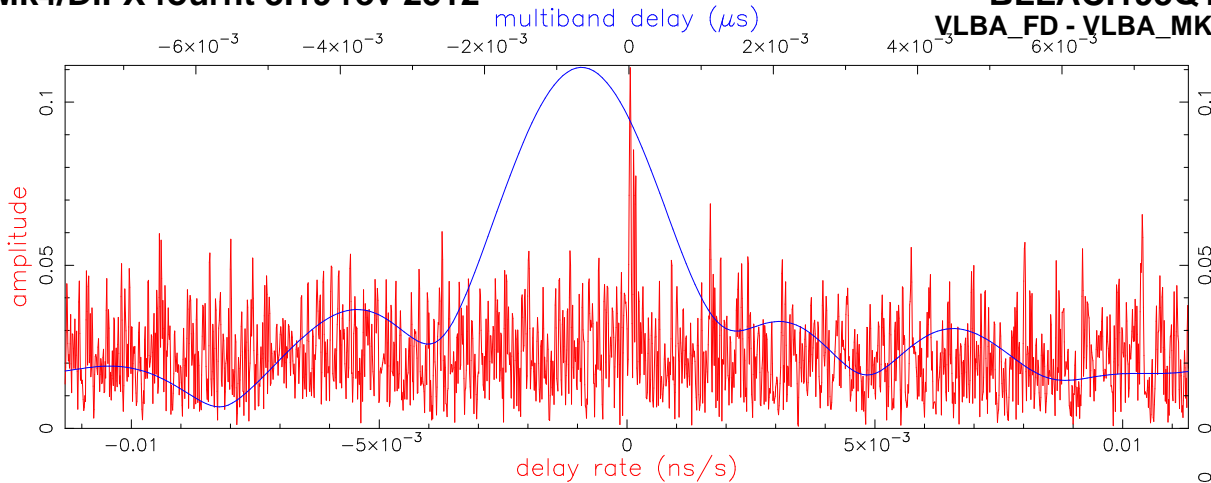


Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

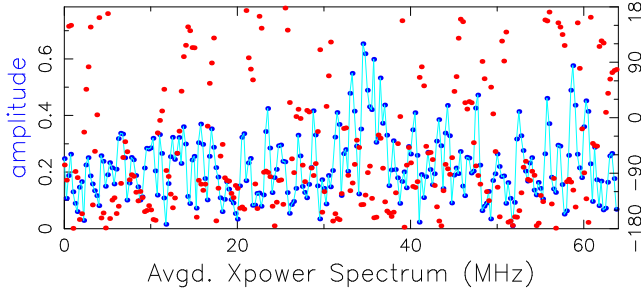
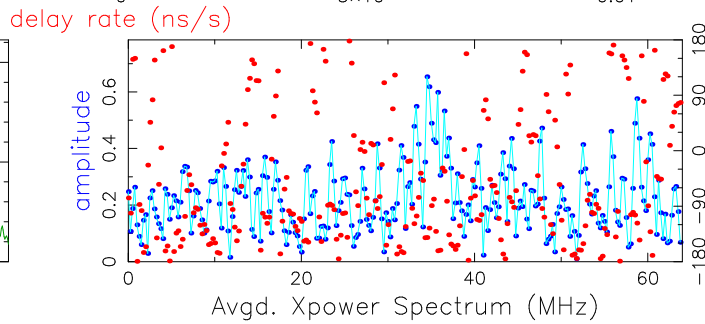
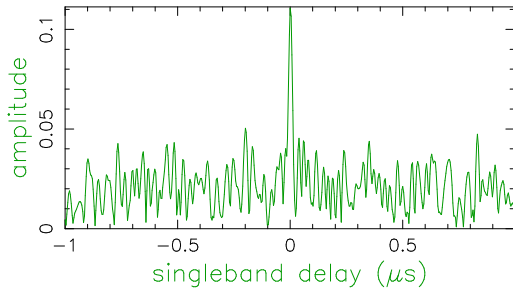


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0			
f	1000	1000	1000	1000	1000	1000	1000	1000			
m	1000	1000	1000	1000	1000	1000	1000	1000			
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
f	1000	1000	1000	1000	1000	1000	1000	1000			
m	1000	1000	1000	1000	1000	1000	1000	1000			
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)	6.06662677184E+03		Apriori delay (usec)		6.06707335139E+03		Resid mbdelay (usec)		6.54545E-03	+/- 1.8E-04	
Sband delay (usec)	6.06662191839E+03		Apriori clock (usec)		-4.2436285E+00		Resid sbdelay (usec)		-4.51433E-01	+/- 1.4E-03	
Phase delay (usec)	6.06707335127E+03		Apriori clockrate (us/s)		-3.8199999E-07		Resid phdelay (usec)		-1.20340E-07	+/- 6.1E-07	
Delay rate (us/s)	-8.62071560018E-01		Apriori rate (us/s)		-8.62073085355E-01		Resid rate (us/s)		1.52534E-06	+/- 2.4E-09	
Total phase (deg)			172.1		Apriori accel (us/s/s)		-1.93305717640E-05		Resid phase (deg)	-3.7	+/- 18.8

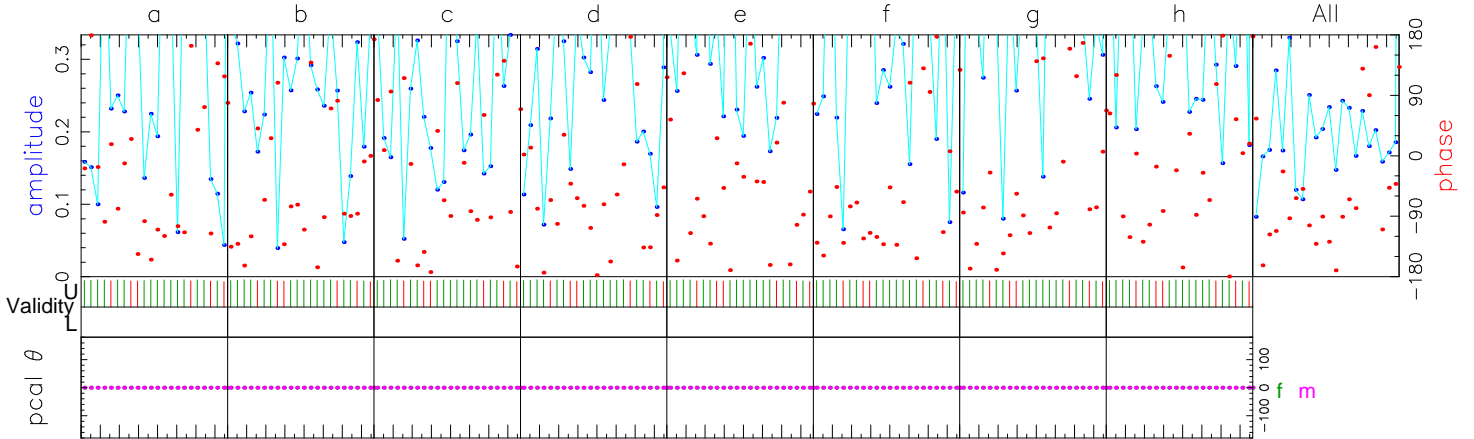
ph/seg (deg) 55.4 45.2 Search (2048X32) 0.103 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 75.0 78.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 22.8 26.6 Inc. seg. avg. 0.112 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 42.2 46.5 Inc. frq. avg. 0.103 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
f: az 352.0 el 78.1 pa 171.0 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 6638.533 -369.997 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/fm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/fm.W.119.193Q1T simultaneous interpolator



Fringe quality 0
SNR 6.3
Int time 424.747
Amp 0.111
Phase -103.0
PFD 9.2e-02
Delays (us)
SBD 0.001084
MBD -0.000608
Fringe rate (Hz)
0.005332
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121351
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

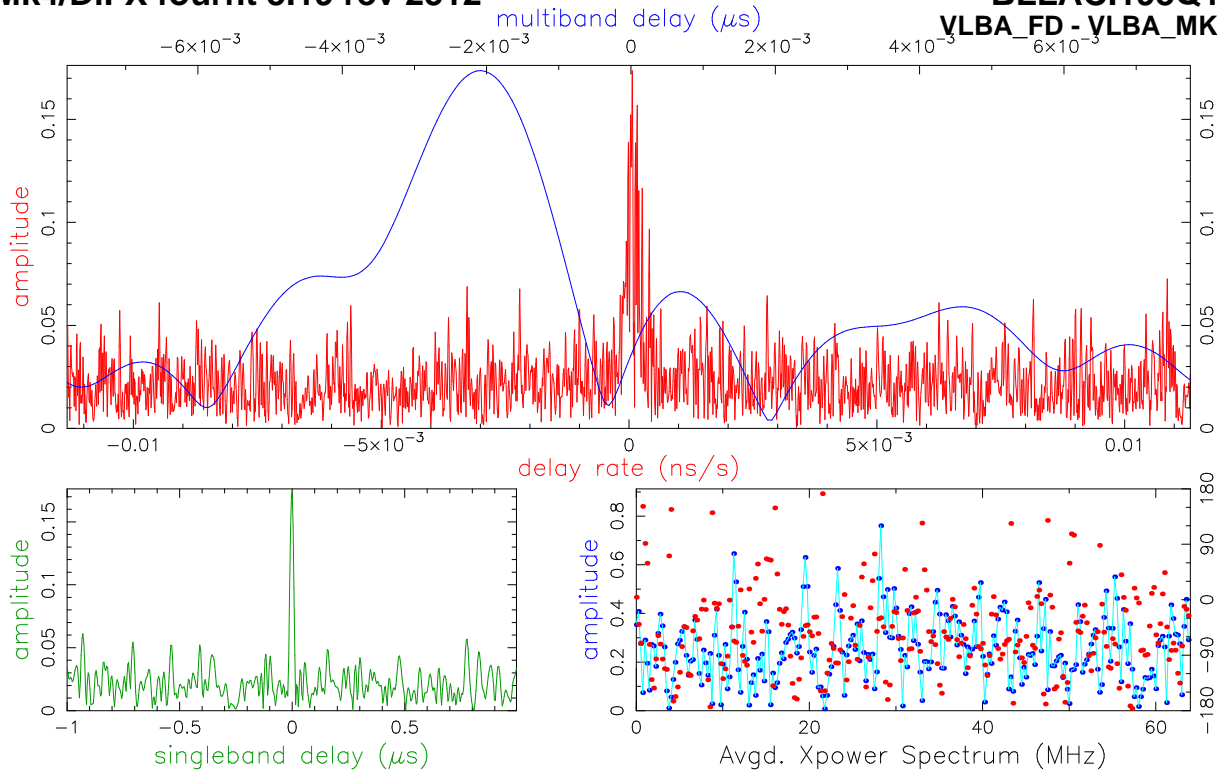


Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-87.7	-97.7	-148.6	-83.6	-102.0	-111.3	-114.9	-72.2	Phase	-103.0
	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	Ampl.	0.1
	272.0	203.8	265.2	476.1	12.8	348.1	257.8	171.6	Sbd box	257.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.06707274336E+03		Apriori delay (usec)		6.06707335139E+03		Resid mbdelay (usec)		-6.08028E-04	+/- 1.7E-04
Sband delay (usec)	6.06707443539E+03		Apriori clock (usec)		-4.2436285E+00		Resid sbdelay (usec)		1.08400E-03	+/- 1.4E-03
Phase delay (usec)	6.06707334807E+03		Apriori clockrate (us/s)		-3.8199999E-07		Resid phdelay (usec)		-3.32059E-06	+/- 5.9E-07
Delay rate (us/s)	-8.62073023450E-01		Apriori rate (us/s)		-8.62073085355E-01		Resid rate (us/s)		6.19046E-08	+/- 2.3E-09
Total phase (deg)	72.9		Apriori accel (us/s/s)		-1.93305717640E-05		Resid phase (deg)		-103.0	+/- 18.3

ph/seg (deg) 70.2 43.8 Search (2048X32) 0.107 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 93.8 76.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.4 25.8 Inc. seg. avg. 0.150 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 45.8 45.1 Inc. frq. avg. 0.105 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 352.0 el 78.1 pa 171.0 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 6638.533 -369.997 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/fm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/fm.W.136.193Q1T

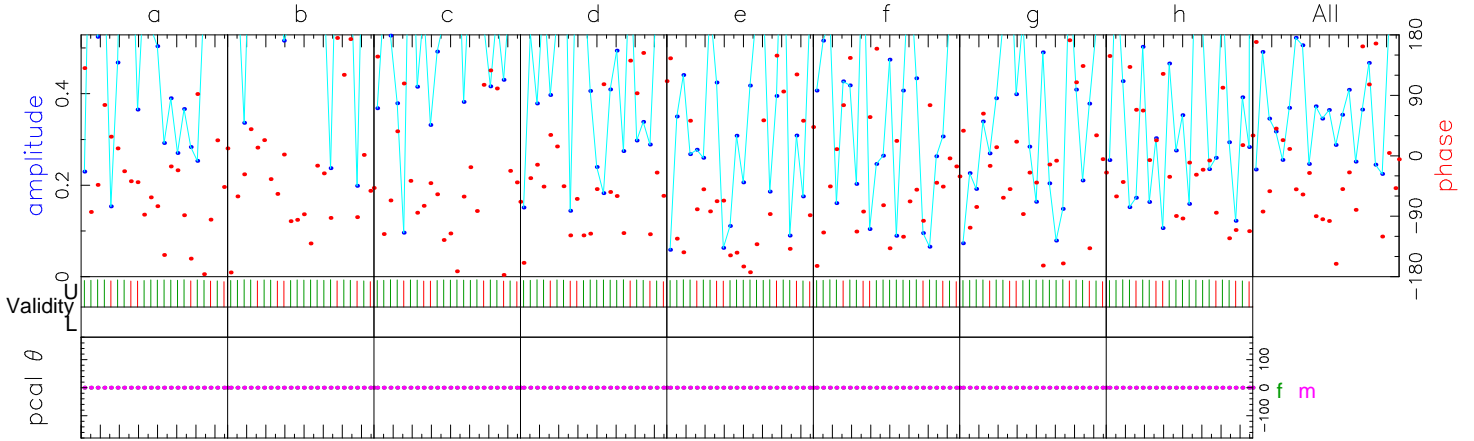


Fringe quality 9

SNR 9.9
Int time 424.748
Amp 0.176
Phase -55.6
PFD 1.3e-14
Delays (us)
SBD -0.001580
MBD -0.002112
Fringe rate (Hz) 0.005821
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

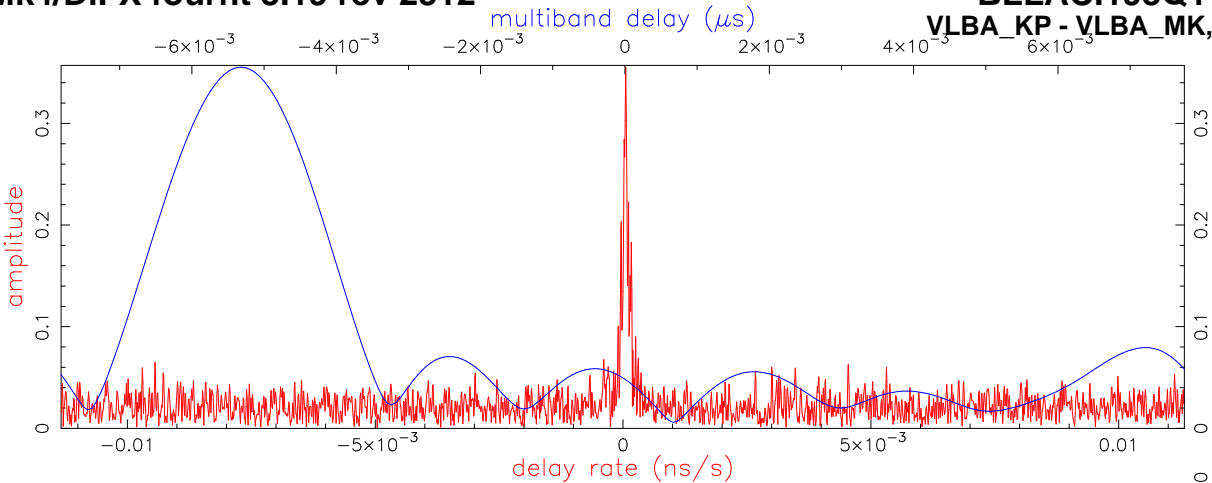
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build 2020:204:084124
2020:204:121339
2020:014:135814
RA & Dec (J2000) 22h02m43.291370s
+42°16'39.979885"

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



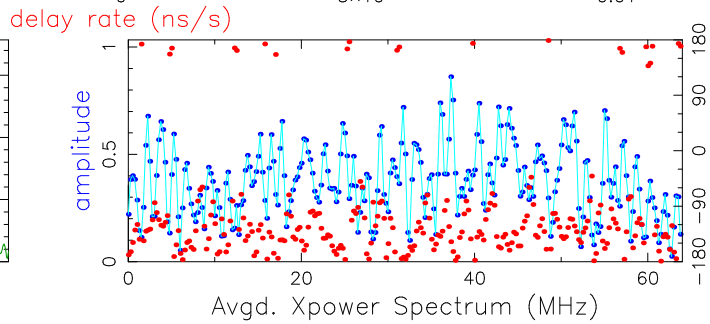
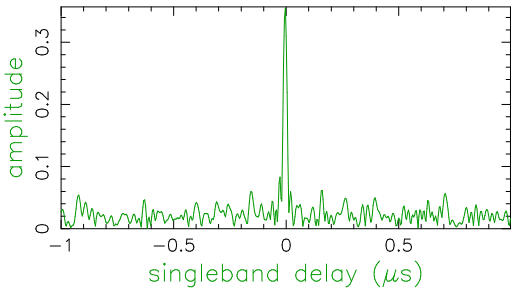
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-47.4	-44.8	-75.1	-56.3	-136.0	-68.9	-38.0	-24.5	Phase	-55.6
	0.3	0.3	0.2	0.2	0.1	0.2	0.1	0.1	Ampl.	0.2
	257.3	256.2	255.6	256.5	330.5	257.6	509.8	474.0	Sbd box	256.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.06707123970E+03		Apriori delay (usec)		6.06707335139E+03		Resid mbdelay (usec)		-2.11168E-03	+/- 1.1E-04
Sband delay (usec)	6.06707177114E+03		Apriori clock (usec)		-4.2436285E+00		Resid sbdelay (usec)		-1.58025E-03	+/- 8.7E-04
Phase delay (usec)	6.06707334959E+03		Apriori clockrate (us/s)		-3.8199999E-07		Resid phdelay (usec)		-1.79193E-06	+/- 3.7E-07
Delay rate (us/s)	-8.62073017779E-01		Apriori rate (us/s)		-8.62073085355E-01		Resid rate (us/s)		6.75751E-08	+/- 1.5E-09
Total phase (deg)	120.3		Apriori accel (us/s/s)		-1.93305717640E-05		Resid phase (deg)		-55.6	+/- 11.5

ph/seg (deg) 76.8 27.7 Search (2048X32) 0.171 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 129.1 48.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 37.6 16.3 Inc. seg. avg. 0.333 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.8 28.5 Inc. frq. avg. 0.182 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 352.0 el 78.1 pa 171.0 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 6638.533 -369.997 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/fm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/fm.W.85.193Q1T simultaneous interpolator



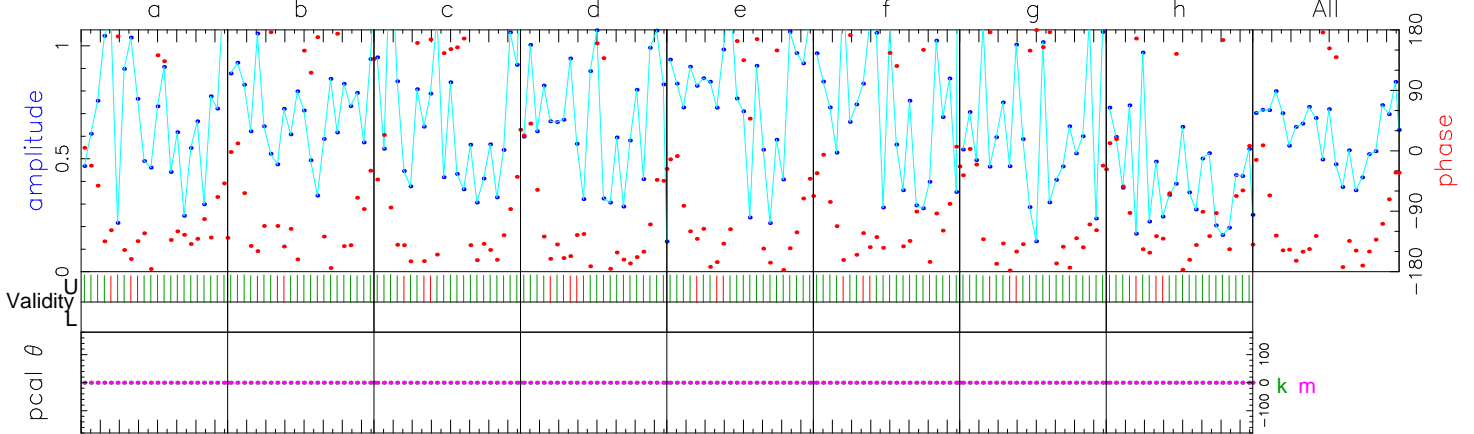
Fringe quality 9

SNR 20.2
Int time 426.334
Amp 0.357
Phase -130.4
PFD 0.0e+00
Delays (us)
SBD -0.004834
MBD -0.005342
Fringe rate (Hz) 0.004760
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512



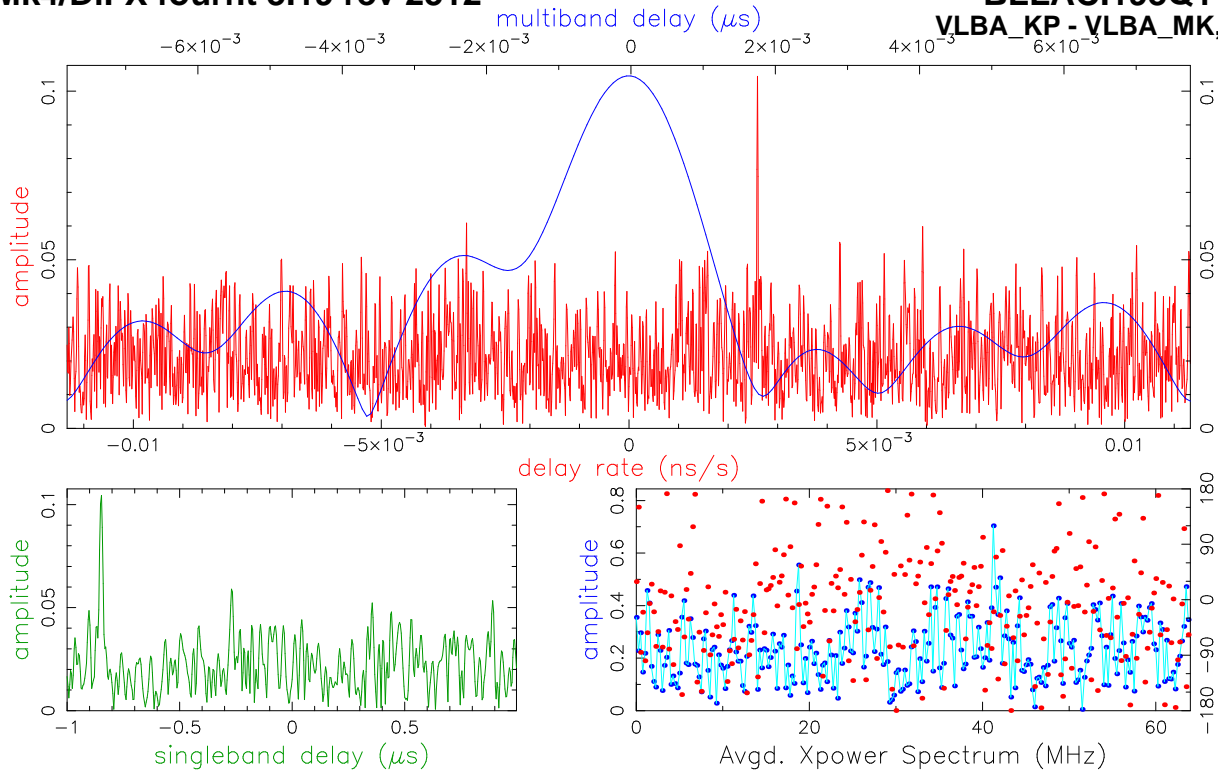
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121346
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



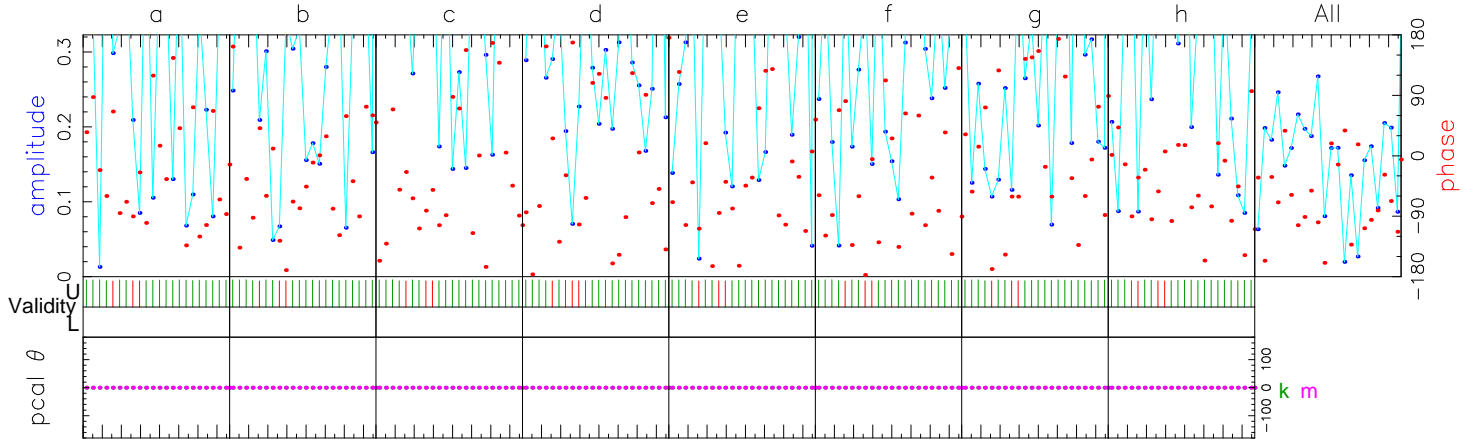
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-124.2	-128.4	-139.6	-138.8	-129.6	-127.7	-138.8	-106.3	Phase	-130.4
	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.2	Ampl.	0.4
	255.6	255.5	255.3	256.4	255.7	255.6	256.0	256.2	Sbd box	255.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.14393392614E+03		Apriori delay (usec)		6.1439326847E+03		Resid mbdelay (usec)		-5.34234E-03	+/- 5.4E-05
Sband delay (usec)	6.14393443447E+03		Apriori clock (usec)		-8.5012922E+00		Resid sbdelay (usec)		-4.83400E-03	+/- 4.3E-04
Phase delay (usec)	6.1439326427E+03		Apriori clockrate (us/s)		-4.8560000E-07		Resid phdelay (usec)		-4.20382E-06	+/- 1.8E-07
Delay rate (us/s)	-7.31065679269E-01		Apriori rate (us/s)		-7.31065734529E-01		Resid rate (us/s)		5.2604E-08	+/- 7.2E-10
Total phase (deg)	80.7		Apriori accel (us/s/s)		-1.82633761278E-05		Resid phase (deg)		-130.4	+/- 5.7

ph/seg (deg) 58.3 13.6 Search (2048X32) 0.354 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 82.3 23.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 11.9 8.0 Inc. seg. avg. 0.602 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 19.2 14.0 Inc. frq. avg. 0.356 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 21.0 el 78.7 pa -158.1 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 5625.858 -149.251 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/km..193Q1T Output file: /Exps/c201d/v1/1234/No0048/km.W.115.193Q1T



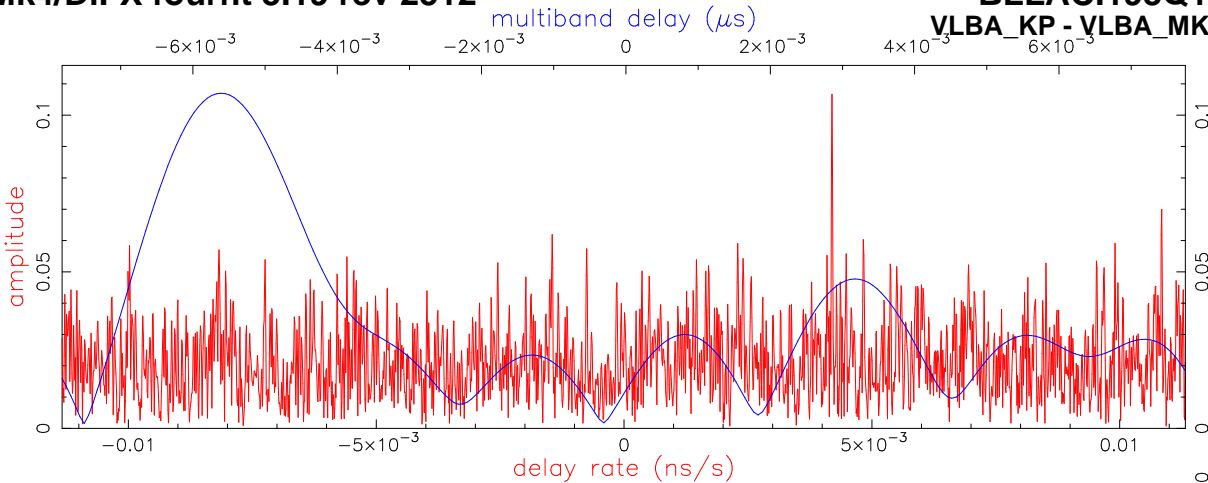
Fringe quality 0
SNR 5.9
Int time 426.335
Amp 0.108
Phase -71.5
PFD 5.0e-01
Delays (us)
SBD -0.848831
MBD -0.000088
Fringe rate (Hz) 0.223025
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121351
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



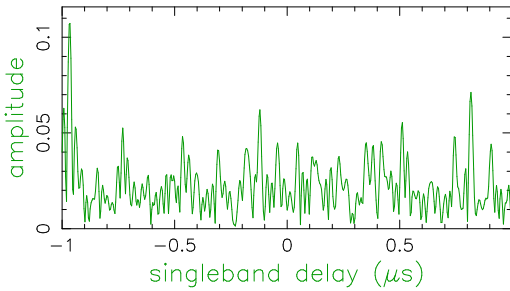
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-44.2	-70.3	-84.0	-98.7	-85.0	-97.9	-133.3	-39.6	Phase	-71.5
	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.2	Ampl.	0.1
	152.2	432.1	35.5	402.9	427.4	489.4	231.0	41.7	Sbd box	39.7
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.14309543051E+03		Apriori delay (usec)		6.14393926847E+03		Resid mbdelay (usec)		-8.79672E-05	+/- 1.8E-04
Sband delay (usec)	6.14309043747E+03		Apriori clock (usec)		-8.50129222E+00		Resid sbdelay (usec)		-8.48831E-01	+/- 1.4E-03
Phase delay (usec)	6.14393926617E+03		Apriori clockrate (us/s)		-4.8560000E-07		Resid phdelay (usec)		-2.30482E-06	+/- 6.2E-07
Delay rate (us/s)	-7.31063145430E-01		Apriori rate (us/s)		-7.31065734529E-01		Resid rate (us/s)		2.58910E-06	+/- 2.4E-09
Total phase (deg)	139.6		Apriori accel (us/s/s)		-1.82633761278E-05		Resid phase (deg)		-71.5	+/- 19.3

ph/seg (deg) 57.6 46.2 Search (2048X32) 0.102 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 77.8 80.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 35.0 27.2 Inc. seg. avg. 0.119 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 46.3 47.5 Inc. frq. avg. 0.105 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
k: az 21.0 el 78.7 pa -158.1 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 5625.858 -149.251 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/km..193Q1T Output file: /Exps/c201d/v1/1234/No0048/km.W.133.193Q1T simultaneous interpolator

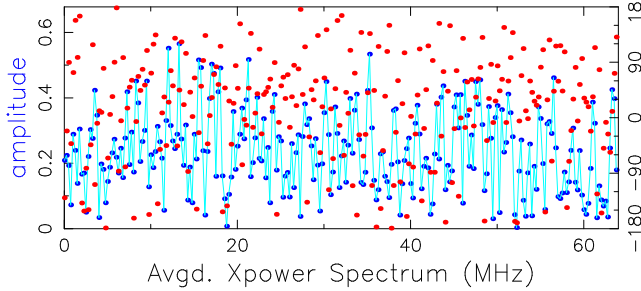


Fringe quality 0

SNR 6.2
Int time 426.334
Amp 0.116
Phase 135.2
PFD 1.6e-01
Delays (us)
SBD -0.966695
MBD -0.005525
Fringe rate (Hz)
0.361785
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

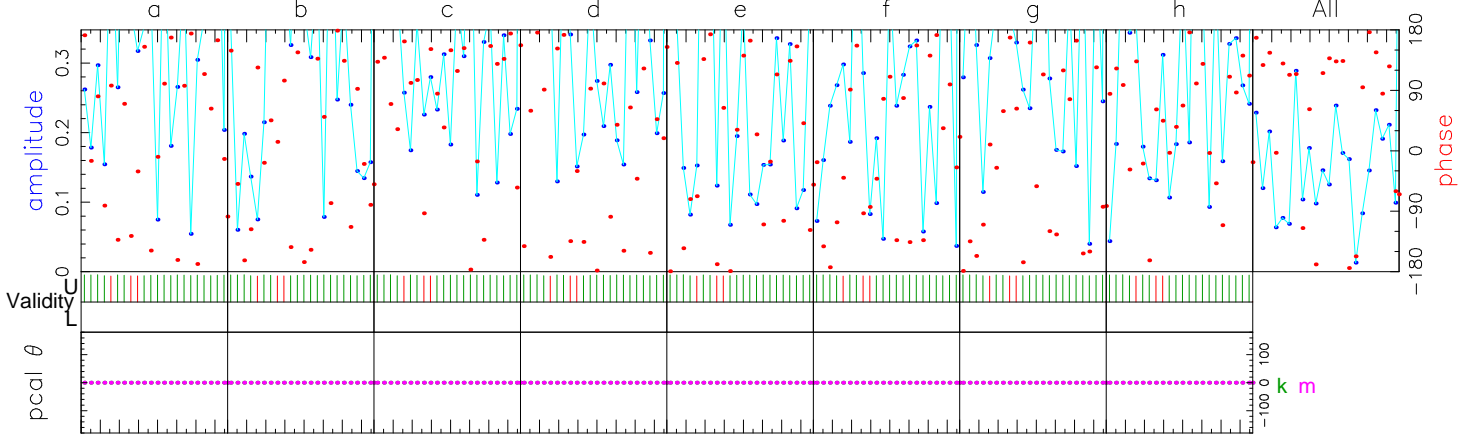


delay rate (ns/s)



Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121354
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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

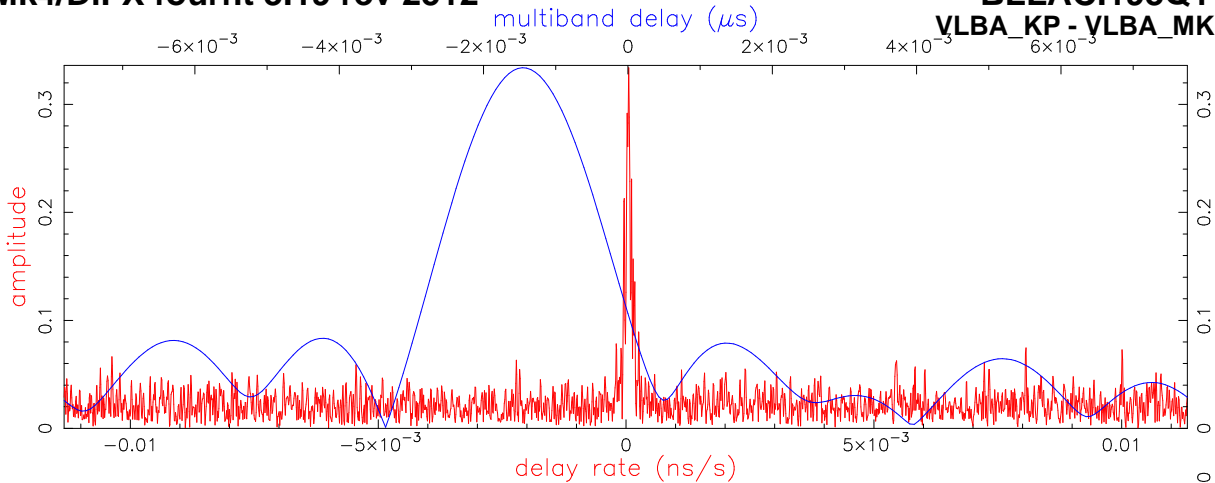


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	124.6	155.4	133.8	135.5	150.5	152.1	172.7	89.9	Phase	135.2
	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
	16.2	219.5	9.6	225.8	240.5	139.1	145.2	167.6	Sbd box	9.5
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

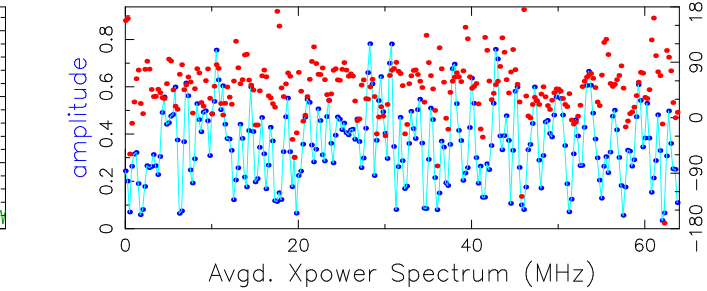
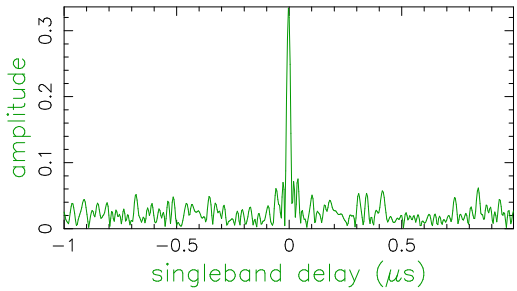
Group delay (usec)(sbd)	6.14296499361E+03	Apriori delay (usec)	6.14393926847E+03	Resid mbdelay (usec)	-5.52486E-03	+/-	1.8E-04
Sband delay (usec)	6.14297257347E+03	Apriori clock (usec)	-8.5012922E+00	Resid sbdelay (usec)	-9.66695E-01	+/-	1.4E-03
Phase delay (usec)	6.14393927283E+03	Apriori clockrate (us/s)	-4.8560000E-07	Resid phdelay (usec)	4.35850E-06	+/-	6.0E-07
Delay rate (us/s)	-7.31061534563E-01	Apriori rate (us/s)	-7.31065734529E-01	Resid rate (us/s)	4.19997E-06	+/-	2.4E-09
Total phase (deg)	346.2	Apriori accel (us/s/s)	-1.82633761278E-05	Resid phase (deg)	135.2	+/-	18.5

ph/seg (deg)	61.3	Theor.	44.4	Amplitude	0.116 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.2	Search (2048X32)	0.102	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	27.4	Inc. seg. avg.	0.121	Inc. frq. avg.	0.111	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	33.2	Inc. frq. avg.	0.111			Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

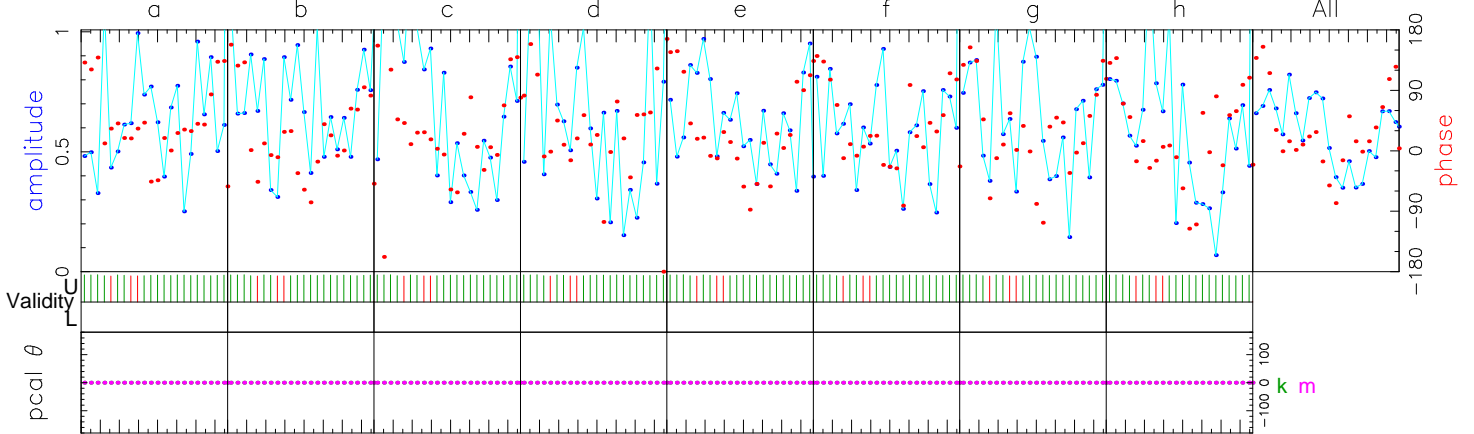
k: az 21.0 el 78.7 pa -158.1 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 5625.858 -149.251 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/km..193Q1T Output file: /Exps/c201d/v1/1234/No0048/km.W.150.193Q1T



Fringe quality 9
SNR 19.0
Int time 426.336
Amp 0.336
Phase 34.9
PFD 0.0e+00
Delays (us)
SBD -0.002837
MBD -0.001430
Fringe rate (Hz) 0.004533
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121342
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

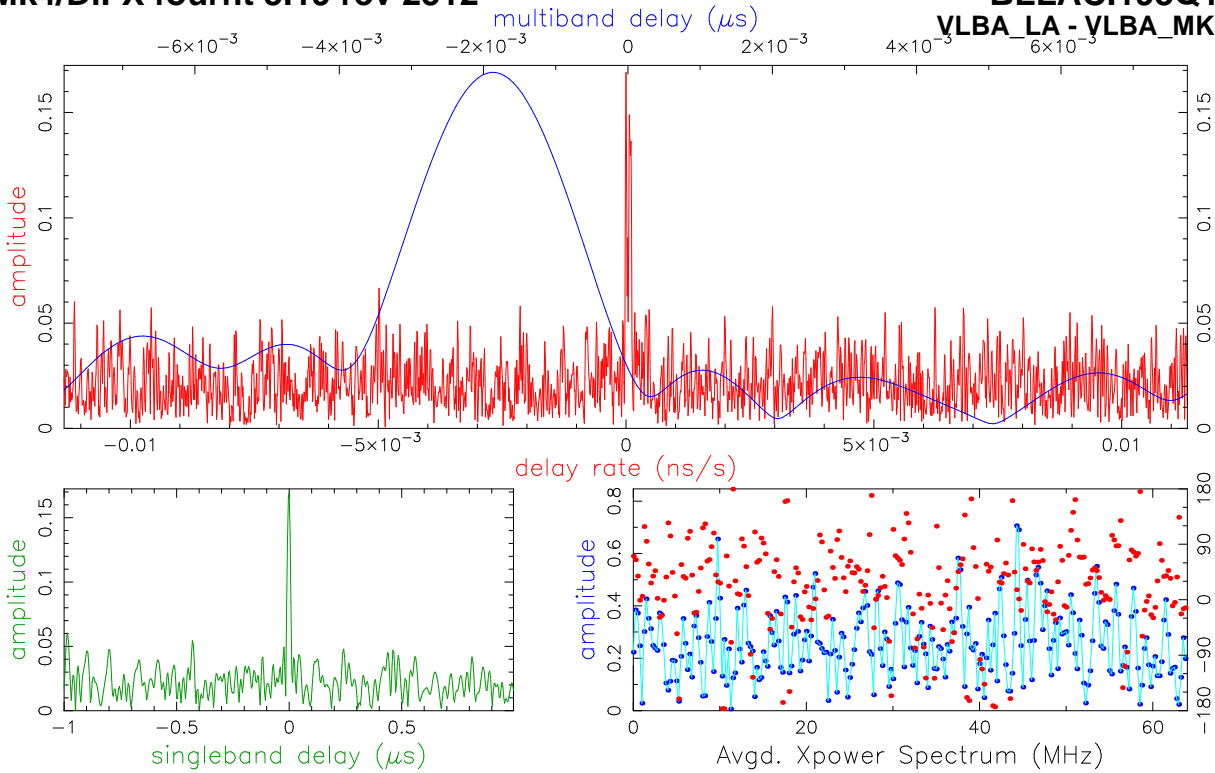


Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



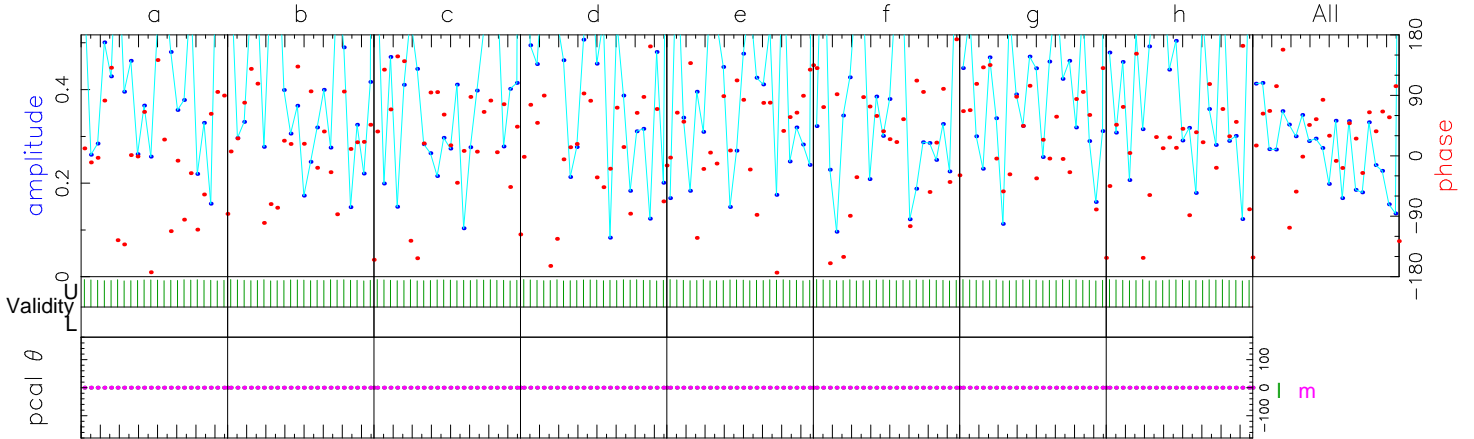
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
k:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	6.14393783798E+03		Apriori delay (usec)		6.14393926847E+03		Resid mbdelay (usec)		-1.43049E-03	+/- 5.7E-05
Sband delay (usec)	6.14393643147E+03		Apriori clock (usec)		-8.5012922E+00		Resid sbdelay (usec)		-2.83700E-03	+/- 4.5E-04
Phase delay (usec)	6.14393926960E+03		Apriori clockrate (us/s)		-4.8560000E-07		Resid phdelay (usec)		1.12419E-06	+/- 1.9E-07
Delay rate (us/s)	-7.31065681907E-01		Apriori rate (us/s)		-7.31065734529E-01		Resid rate (us/s)		5.26225E-08	+/- 7.7E-10
Total phase (deg)	245.9		Apriori accel (us/s/s)		-1.82633761278E-05		Resid phase (deg)		34.9	+/- 6.0

ph/seg (deg) 59.4 14.5 Search (2048X32) 0.329 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 86.1 25.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 10.1 8.5 Inc. seg. avg. 0.571 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 13.1 14.9 Inc. frq. avg. 0.334 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 21.0 el 78.7 pa -158.1 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 5625.858 -149.251 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/km..193Q1T Output file: /Exps/c201d/v1/1234/No0048/km.W.94.193Q1T



Fringe quality 9
SNR 9.7
Int time 427.604
Amp 0.172
Phase 40.8
PFD 7.7e-14
Delays (us)
SBD -0.001691
MBD -0.001908
Fringe rate (Hz) 0.000403
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build 2020:204:084124
2020:204:121346
2020:014:135814
RA & Dec (J2000) 22h02m43.291370s
+42°16'39.979885"

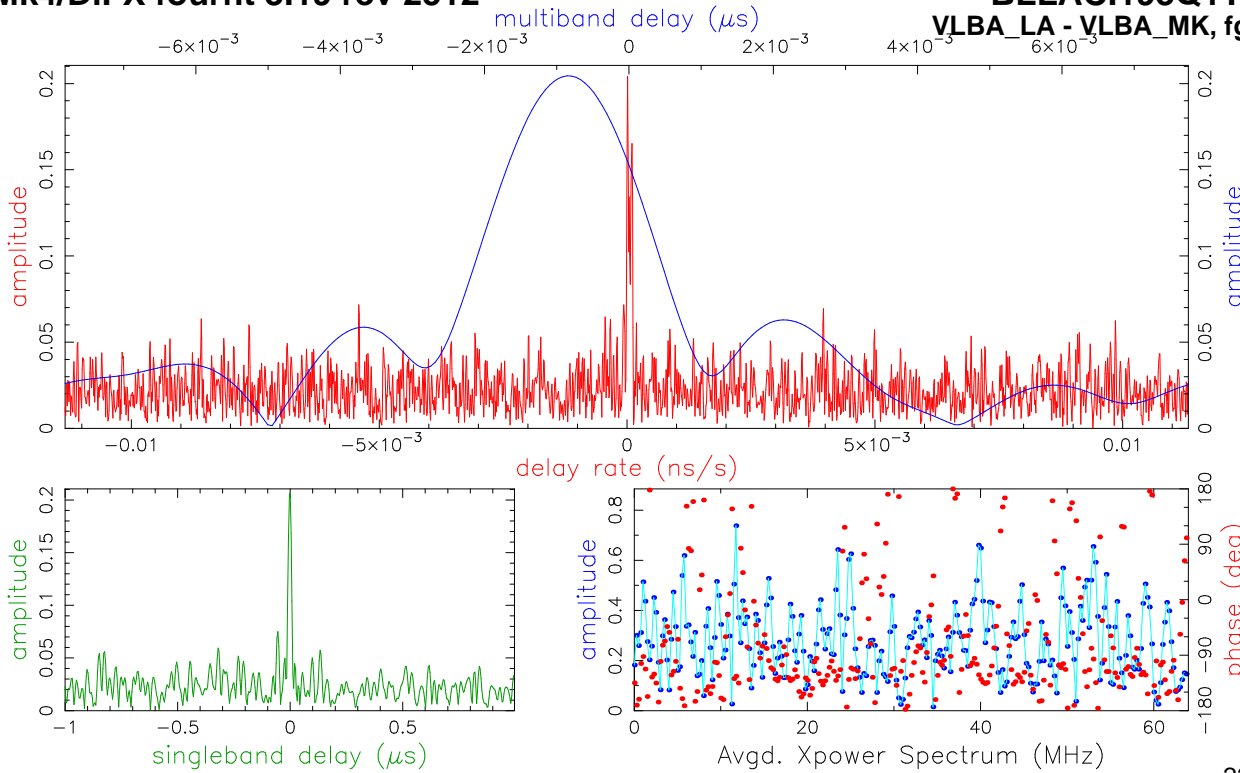
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:m	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		
m	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	6.38475837862E+03		Apriori delay (usec)		6.38476028644E+03		Resid mbdelay (usec)		-1.90781E-03	+/- 1.1E-04
Sband delay (usec)	6.38475859569E+03		Apriori clock (usec)		-1.1890036E+01		Resid sbdelay (usec)		-1.69075E-03	+/- 8.8E-04
Phase delay (usec)	6.38476028775E+03		Apriori clockrate (us/s)		-6.4200002E-07		Resid phdelay (usec)		1.31461E-06	+/- 3.8E-07
Delay rate (us/s)	-8.21400385953E-01		Apriori rate (us/s)		-8.21400390630E-01		Resid rate (us/s)		4.67719E-09	+/- 1.5E-09
Total phase (deg)	67.2		Apriori accel (us/s/s)		-1.53567334024E-05		Resid phase (deg)		40.8	+/- 11.8

	RMS	Theor.	Amplitude	0.172 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	56.6	28.2	Search (2048X32)	0.161	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	77.6	49.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	16.9	16.6	Inc. seg. avg.	0.246	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	23.3	29.0	Inc. frq. avg.	0.167	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

l: az 360.6 el 83.4 pa 176.8 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 6332.947 410.399 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/lm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/lm.W.110.193Q1T

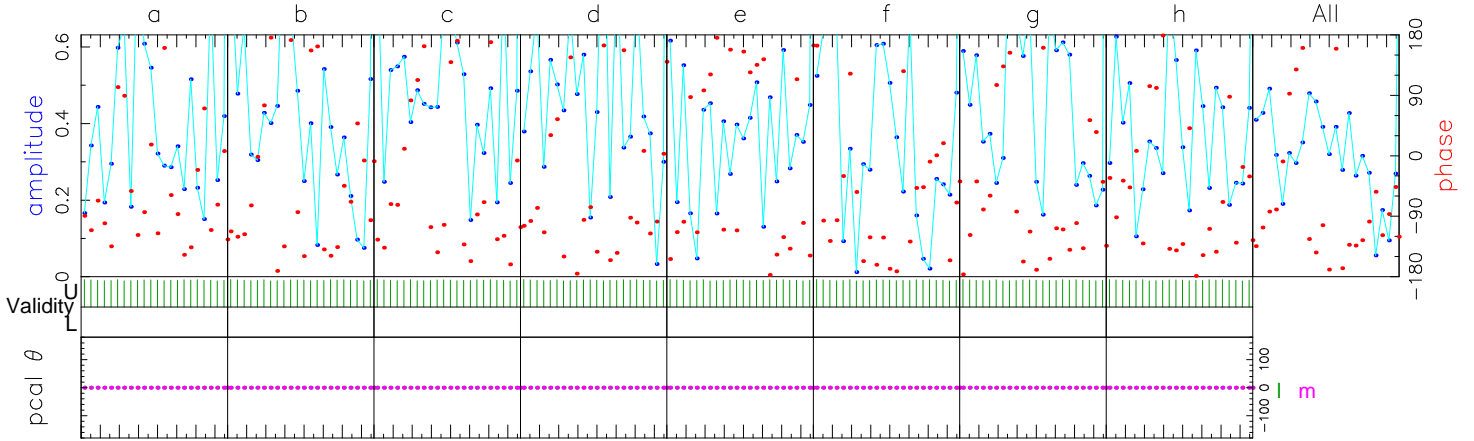


Fringe quality 9

SNR 11.9
Int time 427.605
Amp 0.211
Phase -129.9
PFD 5.5e-24
Delays (us)
SBD -0.001743
MBD -0.000765
Fringe rate (Hz) 0.000521
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121349
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

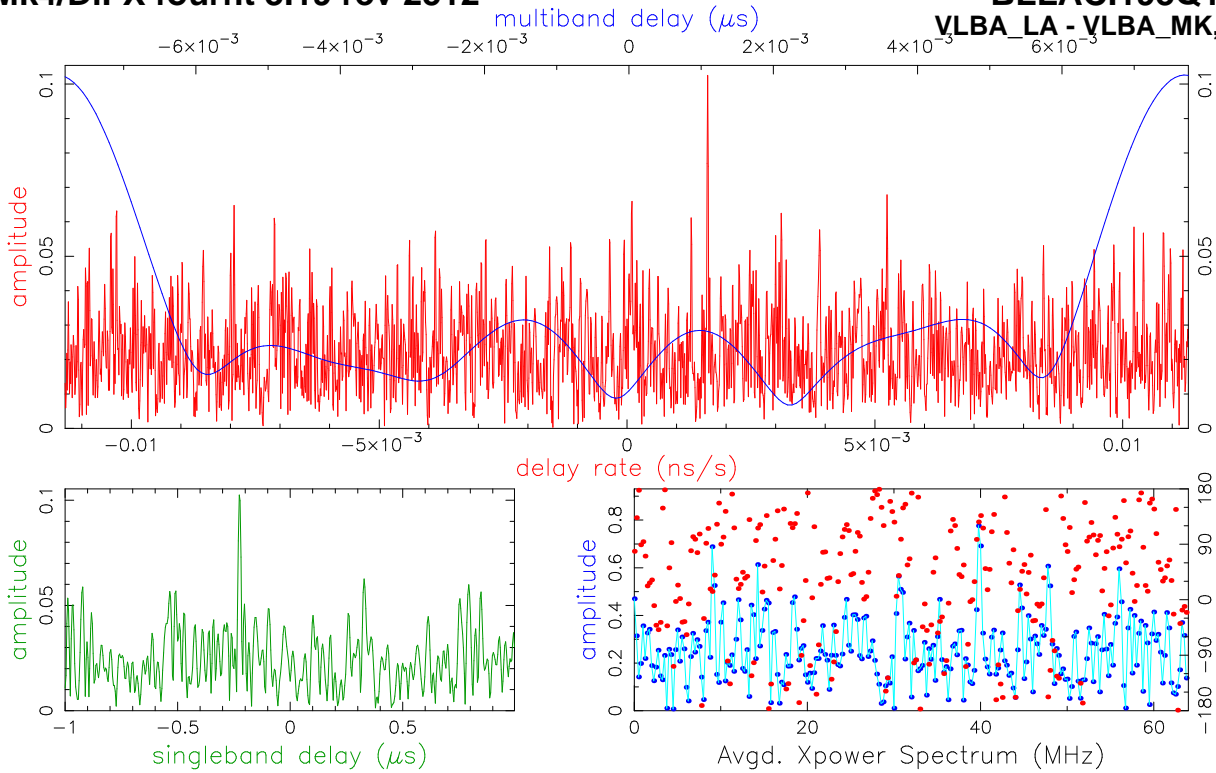
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0			
l	1000	1000	1000	1000	1000	1000	1000	1000			
m	1000	1000	1000	1000	1000	1000	1000	1000			
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
l:m	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			
m	1000	1000	1000	1000	1000	1000	1000	1000			
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)	6.38475952118E+03				6.38476028644E+03						
Sband delay (usec)	6.38475854319E+03				-1.1890036E+01						
Phase delay (usec)	6.38476028225E+03				-6.4200002E-07						
Delay rate (us/s)	-8.21400384582E-01				-8.21400390630E-01						
Total phase (deg)			-103.4		-1.53567334024E-05						
				Apriori delay (usec)					Resid mbdelay (usec)	-7.65255E-04	+/- 9.1E-05
				Apriori clock (usec)					Resid sbdelay (usec)	-1.74325E-03	+/- 7.2E-04
				Apriori clockrate (us/s)					Resid phdelay (usec)	-4.18878E-06	+/- 3.1E-07
									Resid rate (us/s)	6.04825E-09	+/- 1.2E-09
				Apriori accel (us/s/s)					Resid phase (deg)	-129.9	+/- 9.6
ph/seg (deg)	59.8	23.1		Search (2048X32)	0.193				Pcal mode: MANUAL, MANUAL		
amp/seg (%)	75.6	40.3		Interp.	0.000				Pcal rate: 0.000E+00, 0.000E+00 (us/s)		
ph/frq (deg)	22.4	13.6		Inc. seg. avg.	0.295				SampCntNorm: enabled		
amp/frq (%)	15.6	23.8		Inc. frq. avg.	0.209				Sample rate(MISamp/s): 128		
									Data rate(Mb/s): 2048		
									nlags: 256		
									t_cohere infinite		
									ion window (TEC)	0.00	0.00

l: az 360.6 el 83.4 pa 176.8 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 6332.947 410.399 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/lm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/lm.W.129.193Q1T

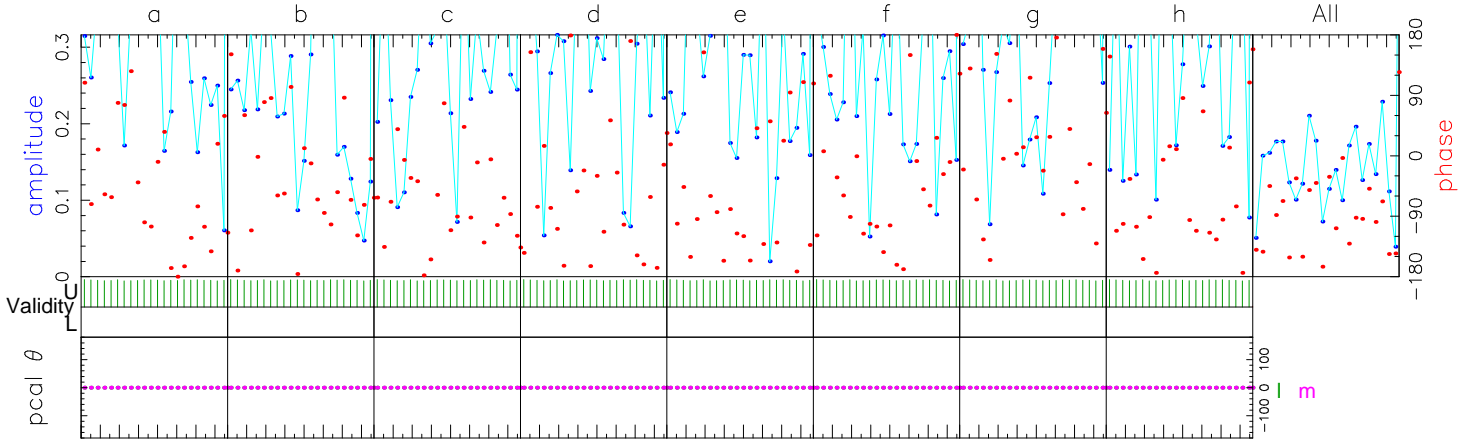


Fringe quality 0

SNR 5.9
Int time 427.605
Amp 0.105
Phase -85.8
PFD 5.8e-01
Delays (us)
SBD -0.225024
MBD 0.007755
Fringe rate (Hz)
0.139977
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

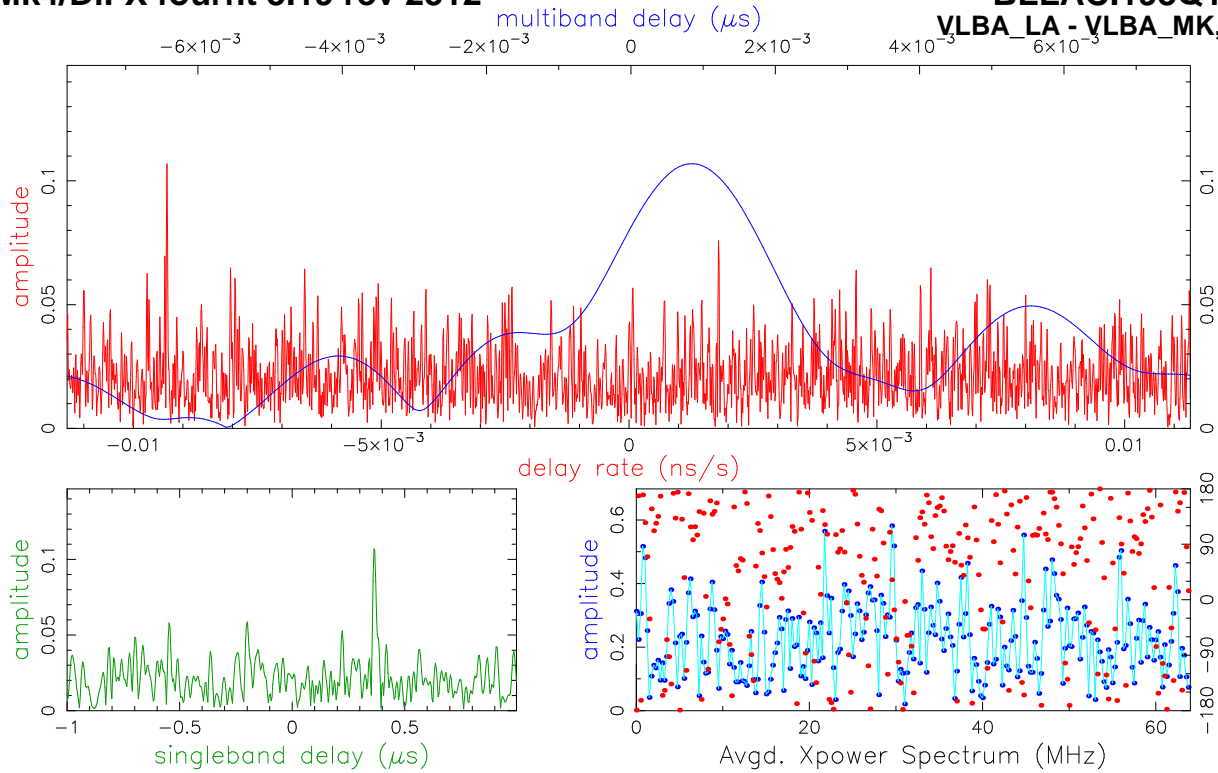
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121355
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



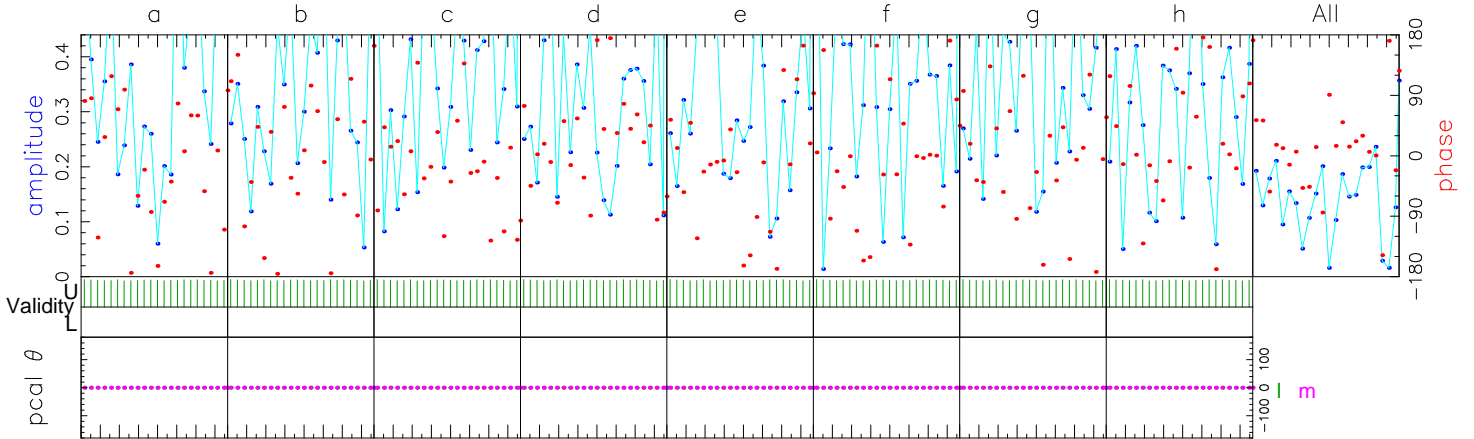
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-81.3	-58.0	-75.7	-102.4	-121.5	-86.6	-37.4	-98.0	Phase	-85.8
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	259.1	189.2	339.1	75.8	349.2	233.8	436.2	129.9	Sbd box	199.4
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.3845336681E+03		Apriori delay (usec)		6.38476028644E+03		Resid mbdelay (usec)		7.75538E-03	+/- 1.8E-04
Sband delay (usec)	6.38453526269E+03		Apriori clock (usec)		-1.1890036E+01		Resid sbdelay (usec)		-2.25024E-01	+/- 1.5E-03
Phase delay (usec)	6.38476028367E+03		Apriori clockrate (us/s)		-6.4200002E-07		Resid phdelay (usec)		-2.76786E-06	+/- 6.3E-07
Delay rate (us/s)	-8.21398765636E-01		Apriori rate (us/s)		-8.21400390630E-01		Resid rate (us/s)		1.62499E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.53567334024E-05		Resid phase (deg)		-85.8	+/- 19.4

ph/seg (deg) 48.1 46.5 Search (2048X32) 0.105 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 59.5 81.1 Interp. 0.100 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 28.7 27.4 Inc. seg. avg. 0.106 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 24.2 47.8 Inc. frq. avg. 0.101 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 360.6 el 83.4 pa 176.8 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 6332.947 410.399 ion window (TEC) 0.00 0.00
 simultaneous interpolator



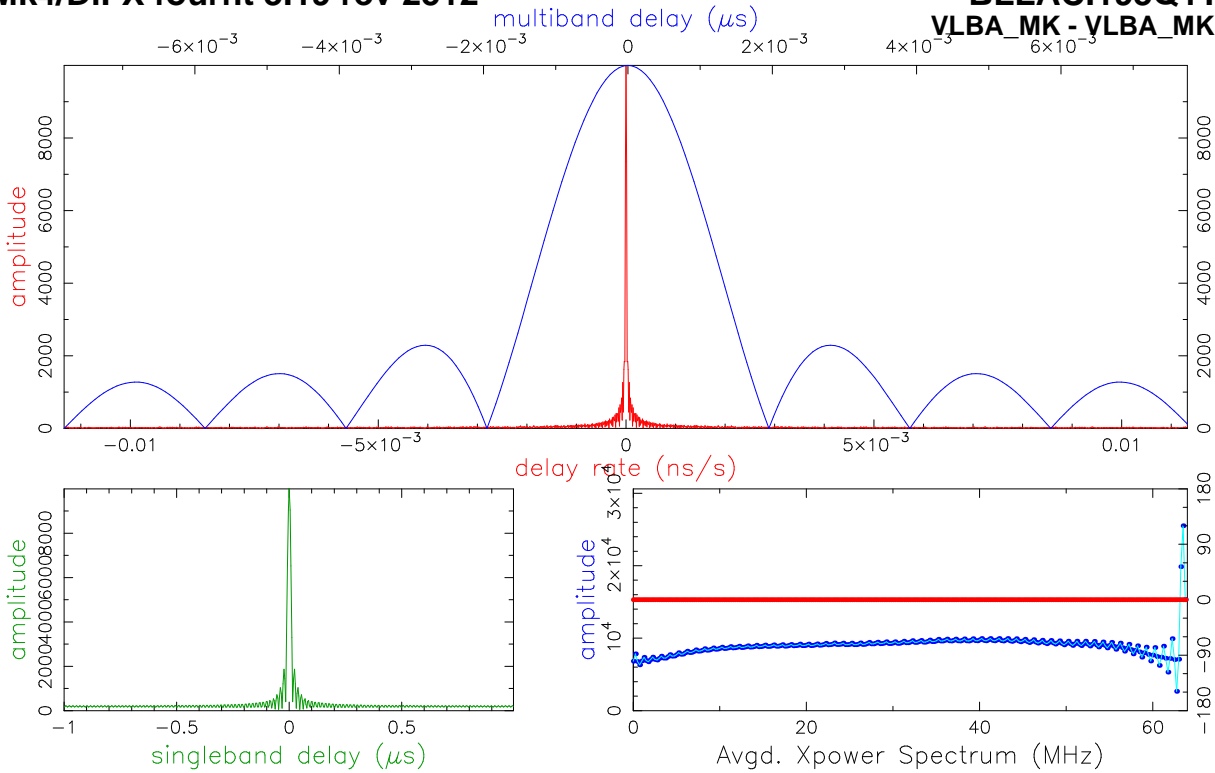
Fringe quality 0
SNR 6.2
Int time 427.604
Amp 0.147
Phase 5.8
PFD 1.7e-01
Delays (us)
SBD 0.364998
MBD 0.000892
Fringe rate (Hz)
-0.803970
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121359
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



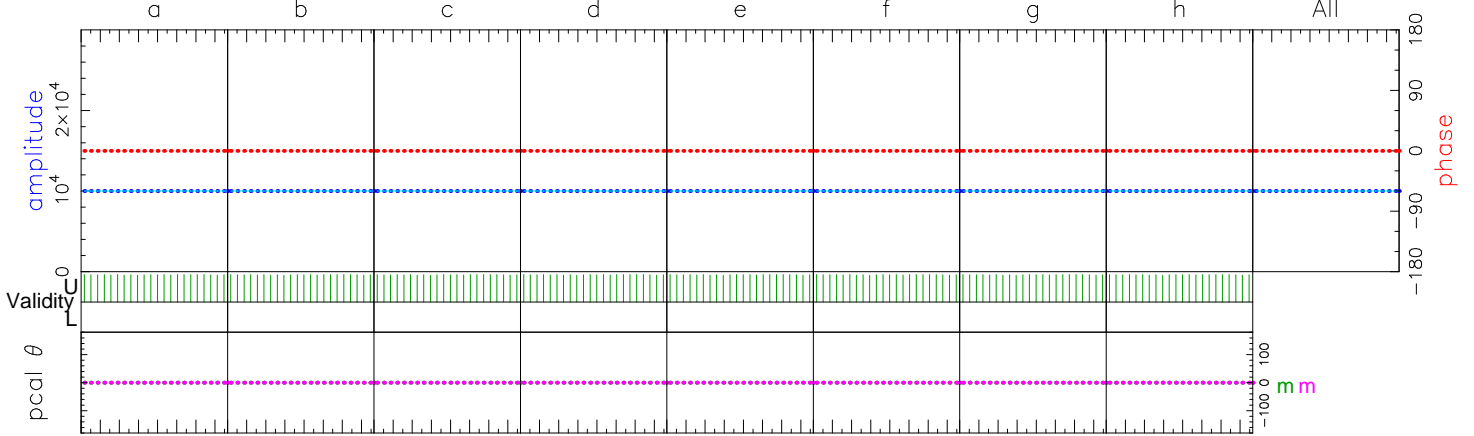
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.38512055346E+03					6.38476028644E+03			Resid mbdelay (usec)	8.92028E-04 +/- 1.8E-04
Sband delay (usec)	6.38512528469E+03					-1.1890036E+01			Resid sbdelay (usec)	3.64998E-01 +/- 1.4E-03
Phase delay (usec)	6.38476028662E+03					-6.4200002E-07			Resid phdelay (usec)	1.86899E-07 +/- 6.0E-07
Delay rate (us/s)	-8.21409723930E-01					-8.21400390630E-01			Resid rate (us/s)	-9.33330E-06 +/- 2.4E-09
Total phase (deg)			32.3			-1.53567334024E-05			Resid phase (deg)	5.8 +/- 18.6

ph/seg (deg) 61.7 44.5 Search (2048X32) 0.106 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 63.7 77.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 34.1 26.3 Inc. seg. avg. 0.142 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 29.9 45.9 Inc. frq. avg. 0.149 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 360.6 el 83.4 pa 176.8 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 6332.947 410.399 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/lm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/lm.W.166.193Q1T simultaneous interpolator



Fringe quality 9
 SNR 571180.1
 Int time 436.266
 Amp 9999.995
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 144500.00
 Stop 145219.81
 FRT 144840.00
 Corr/FF/build
 2020:204:084124
 2020:204:121359
 2020:014:135814
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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

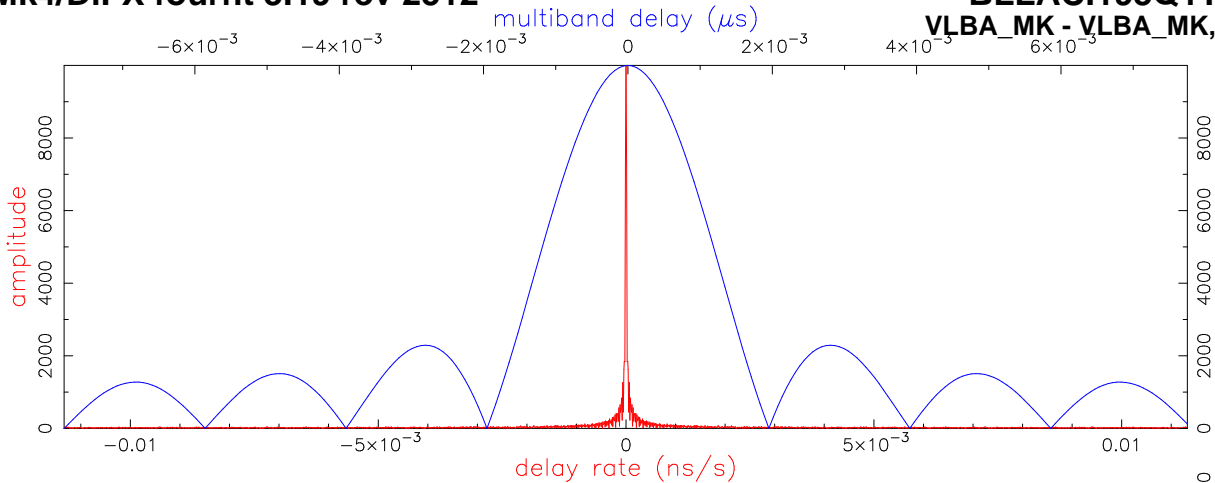


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	Ampl.	10000.0
m	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
m:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs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

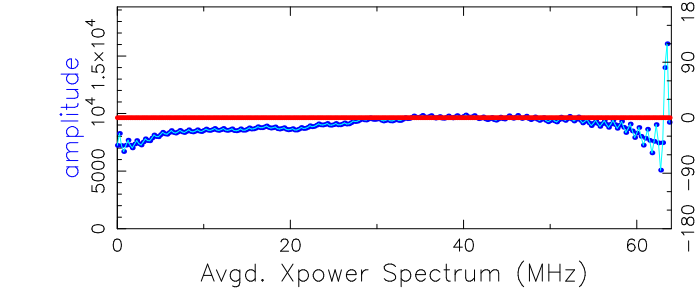
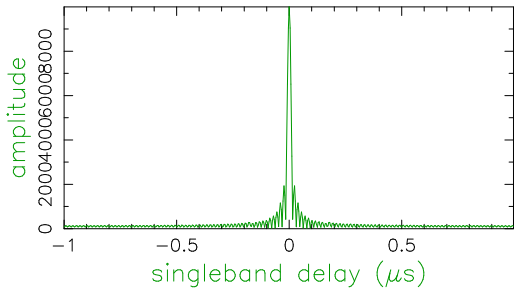
Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 1.9E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.5E-08
 Phase delay (usec) 8.28683435040E-20 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 8.28683E-20 +/- 6.5E-12
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 2.5E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

RMS Theor. Amplitude 9999.995 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 9999.995 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.995 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

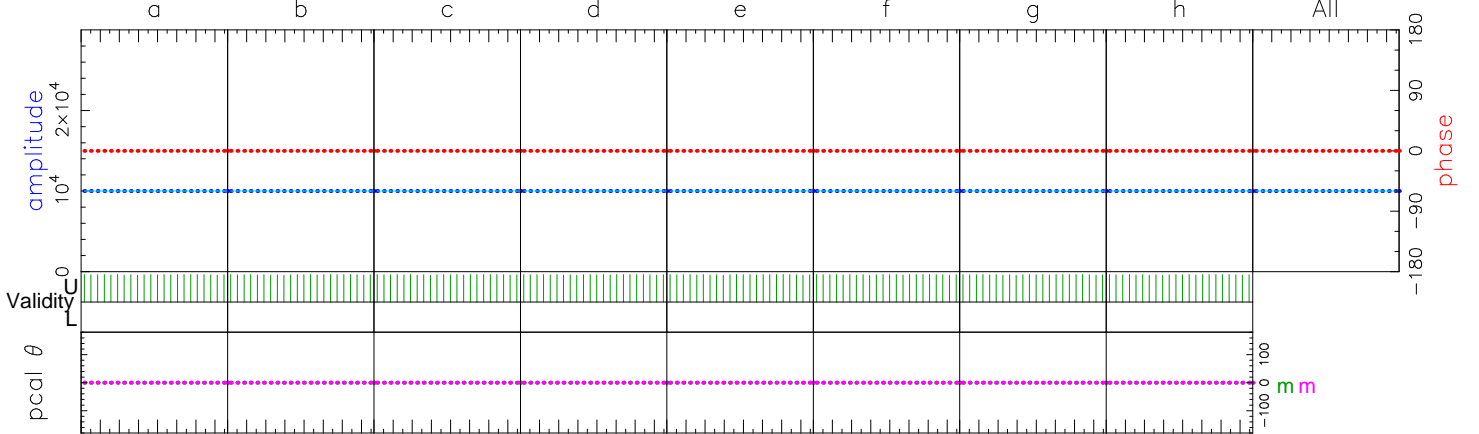
m: az 49.9 el 43.0 pa -102.5 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/mm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/mm.W.164.193Q1T



Fringe quality 9
SNR 571179.0
Int time 436.265
Amp 9999.983
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 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121403
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

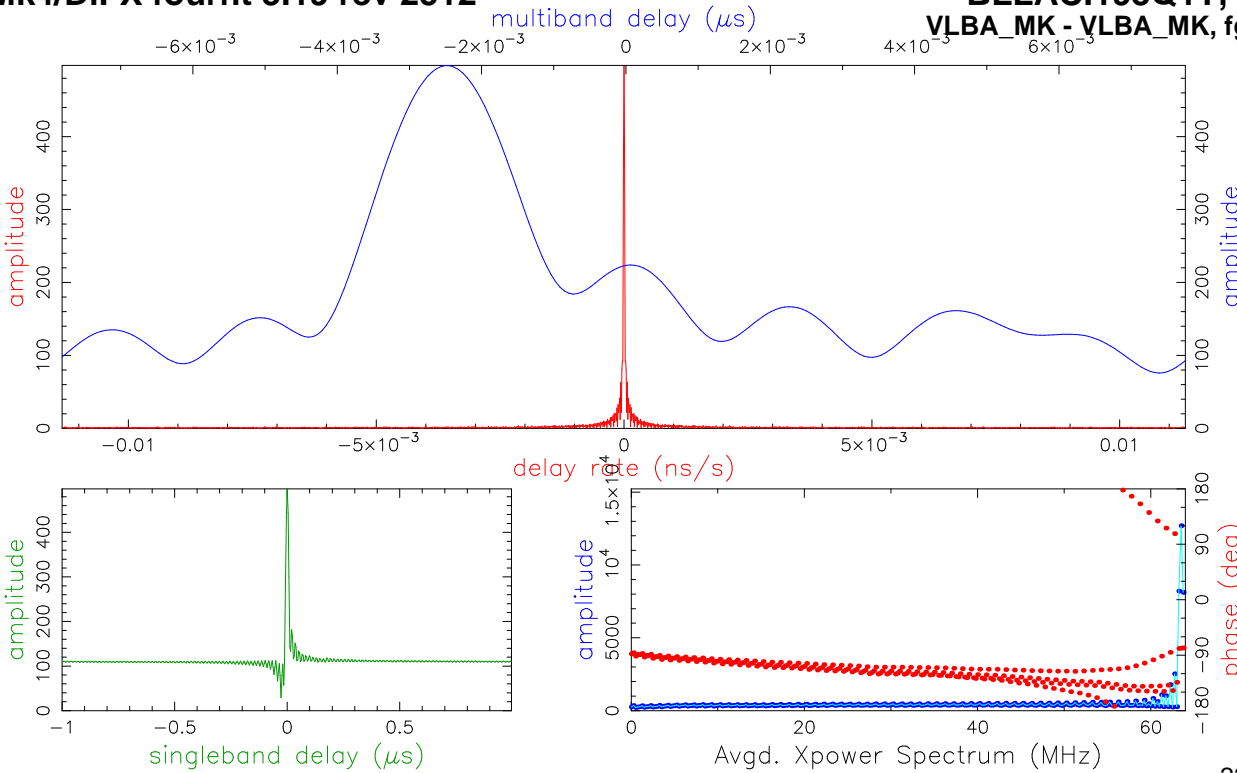


Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	Ampl.	10000.0
m	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
m:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Mani PC	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
									Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	Resid mbdelay (usec)	0.00000E+00 +/- 1.9E-09
Sband delay (usec)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	Resid sbdelay (usec)	0.00000E+00 +/- 1.5E-08
Phase delay (usec)	4.36349172481E-20	4.36349172481E-20	4.36349172481E-20	4.36349172481E-20	4.36349172481E-20	4.36349172481E-20	4.36349172481E-20	4.36349172481E-20	Resid phdelay (usec)	4.36349E-20 +/- 6.5E-12
Delay rate (us/s)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	Resid rate (us/s)	0.00000E+00 +/- 2.5E-14
Total phase (deg)			0.0						Resid phase (deg)	0.0 +/- 0.0

RMS Theor. Amplitude 9999.982 +/- 0.018
Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 0.0 0.0 Search (2048X32) 9999.983 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.982 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
m: az 49.9 el 43.0 pa -102.5 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/mm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/mm.W.181.193Q1T

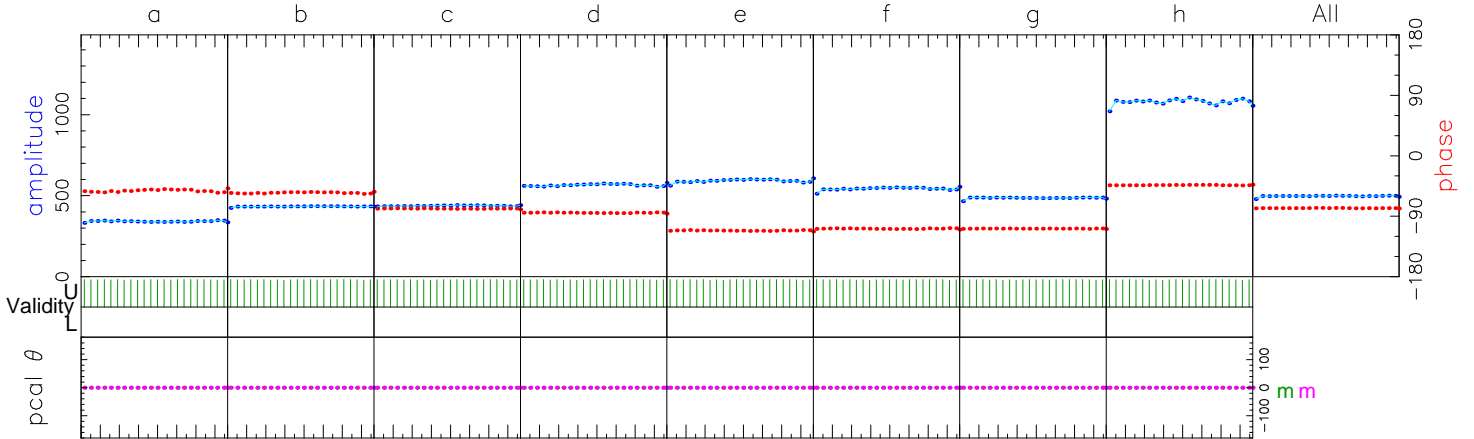


Fringe quality 5

SNR 28424.0
Int time 436.266
Amp 497.636
Phase -77.8
PFD 0.0e+00
Delays (us)
SBD 0.000173
MBD -0.002486
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

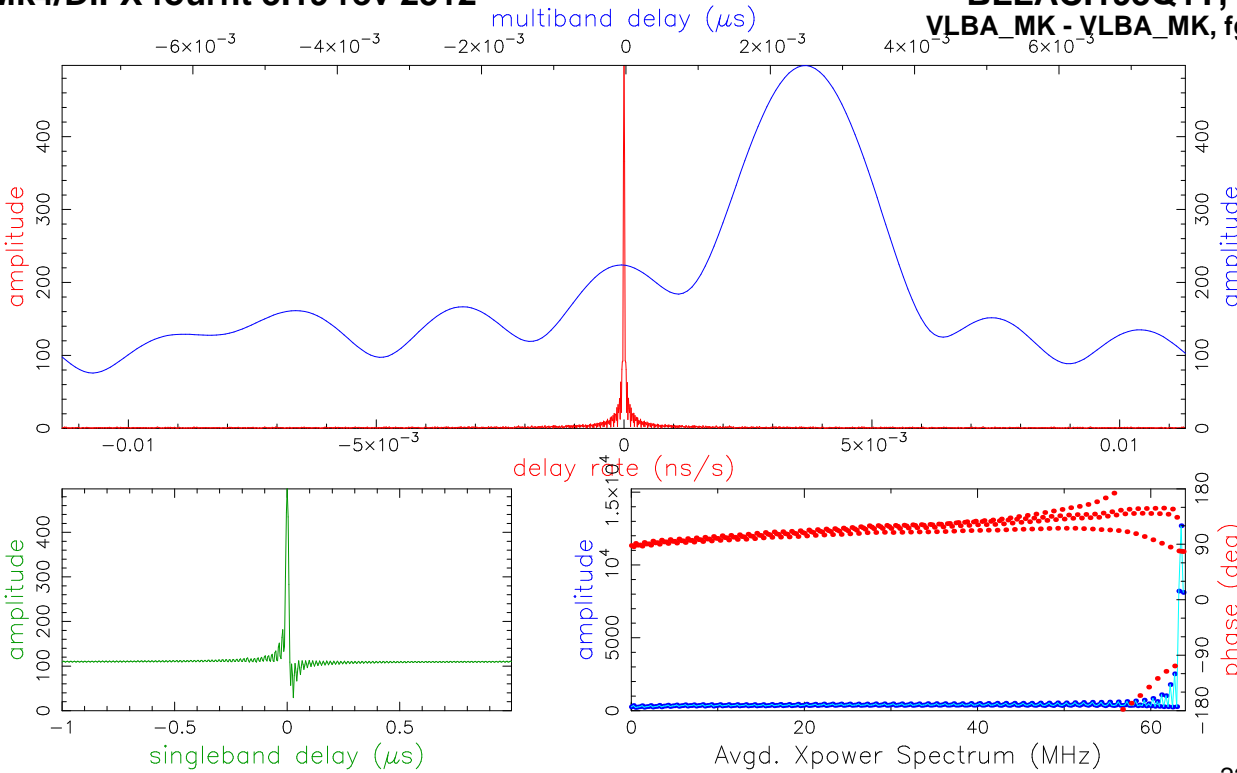
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build 2020:204:084124
2020:204:121407
2020:014:135814
RA & Dec (J2000) 22h02m43.291370s
+42°16'39.979885"

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



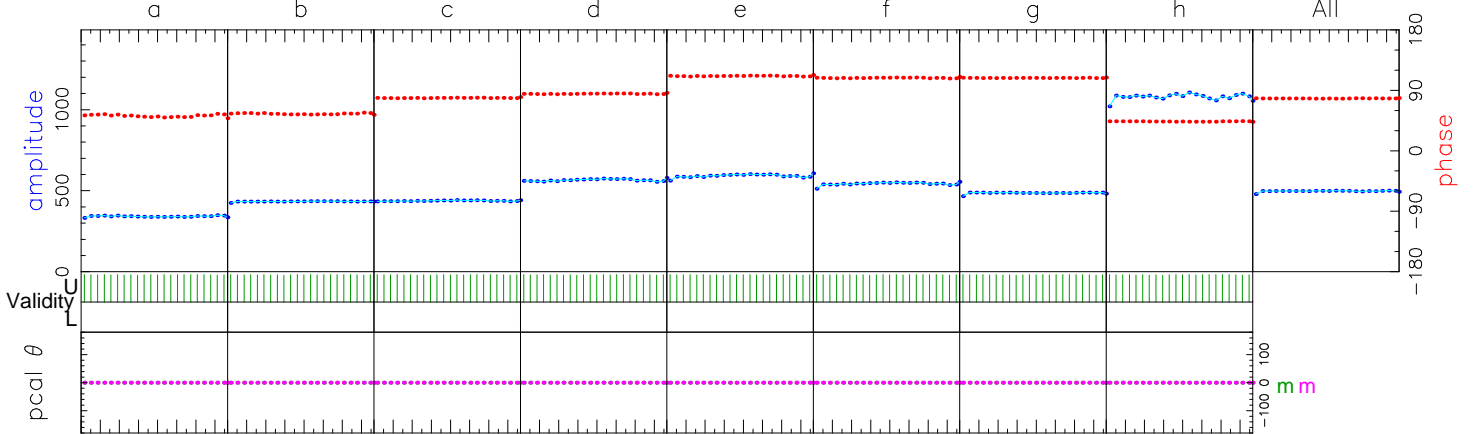
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-52.1	-55.1	-78.6	-84.8	-111.2	-108.4	-108.4	-43.7	Phase	-77.8
	341.6	433.6	437.8	565.4	591.3	542.7	486.2	1080.2	Ampl.	559.9
	256.4	256.0	256.2	256.4	256.1	256.5	256.7	257.0	Sbd box	257.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
m:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.48621875000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-2.48622E-03	+/- 3.8E-08
Sband delay (usec)	1.73000000000E-04		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		1.73000E-04	+/- 3.0E-07
Phase delay (usec)	-2.51023375514E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-2.51023E-06	+/- 1.3E-10
Delay rate (us/s)	2.12567285875E-12		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		2.12567E-12	+/- 5.1E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-77.8	+/- 0.0

ph/seg (deg) 0.1 0.0 Search (2048X32) 497.170 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.8 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) 29.9 0.0 Inc. seg. avg. 497.519 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.2 0.0 Inc. frq. avg. 559.862 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 m: az 49.9 el 43.0 pa -102.5 m: az 49.9 el 43.0 pa -102.5 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/No0048/mm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/mm.W.199.193Q1T



Fringe quality 5
 SNR 28424.0
 Int time 436.265
 Amp 497.636
 Phase 77.8
 PFD 0.0e+00
 Delays (us)
 SBD -0.000173
 MBD 0.002486
 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 144500.00
 Stop 145219.81
 FRT 144840.00
 Corr/FF/build
 2020:204:084124
 2020:204:121411
 2020:014:135814
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	52.1	55.1	78.6	84.8	111.2	108.4	108.4	43.7	Phase	77.8
	341.6	433.6	437.8	565.5	591.3	542.7	486.2	1080.2	Ampl.	559.9
	257.6	258.0	257.8	257.6	257.9	257.5	257.3	257.0	Sbd box	257.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	2.48621875000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	2.48622E-03	+/-	3.8E-08
Sband delay (usec)	-1.73000000000E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.73000E-04	+/-	3.0E-07
Phase delay (usec)	2.51023375529E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.51023E-06	+/-	1.3E-10
Delay rate (us/s)	-2.12567285875E-12	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-2.12567E-12	+/-	5.1E-13
Total phase (deg)	77.8	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	77.8	+/-	0.0

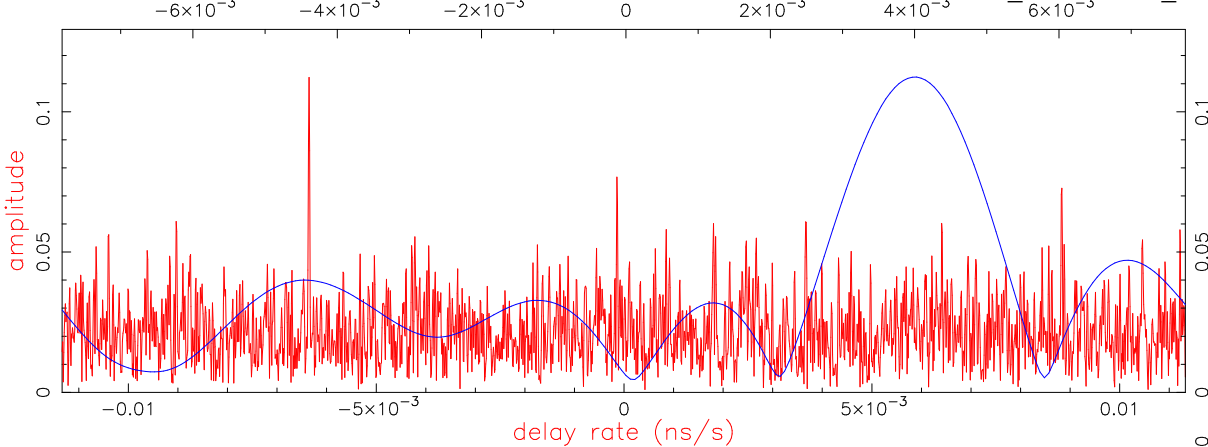
ph/seg (deg)	0.1	0.0	Search (2048X32)	497.170	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	0.8	0.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	29.9	0.0	Inc. seg. avg.	497.520	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	44.2	0.0	Inc. frq. avg.	559.862	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

m: az 49.9 el 43.0 pa -102.5 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

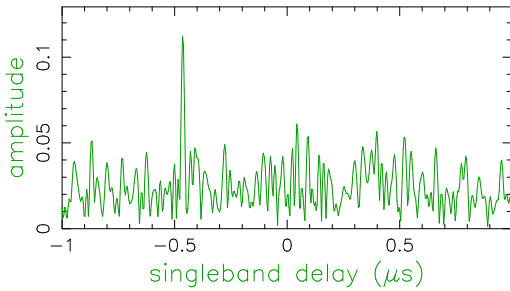
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/mm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/mm.W.219.193Q1T

multiband delay (μ s)

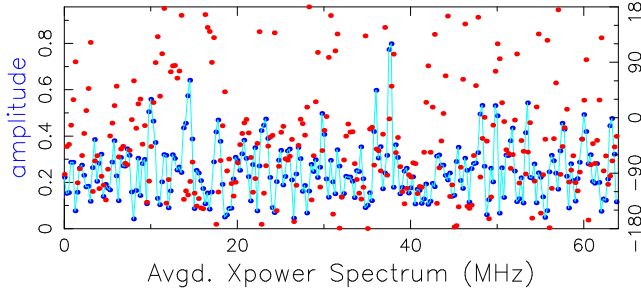
Fringe quality 0



SNR 6.4
Int time 429.416
Amp 0.129
Phase -58.0
PFD 3.8e-02
Delays (us)
SBD -0.463741
MBD 0.004058
Fringe rate (Hz)
-0.547890
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

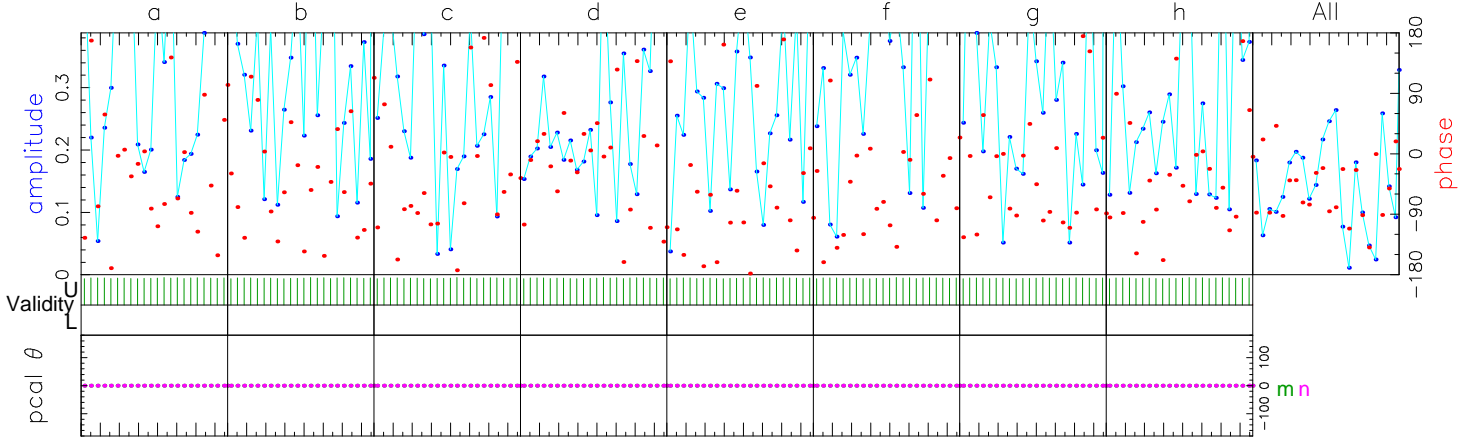


delay rate (ns/s)



Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121400
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



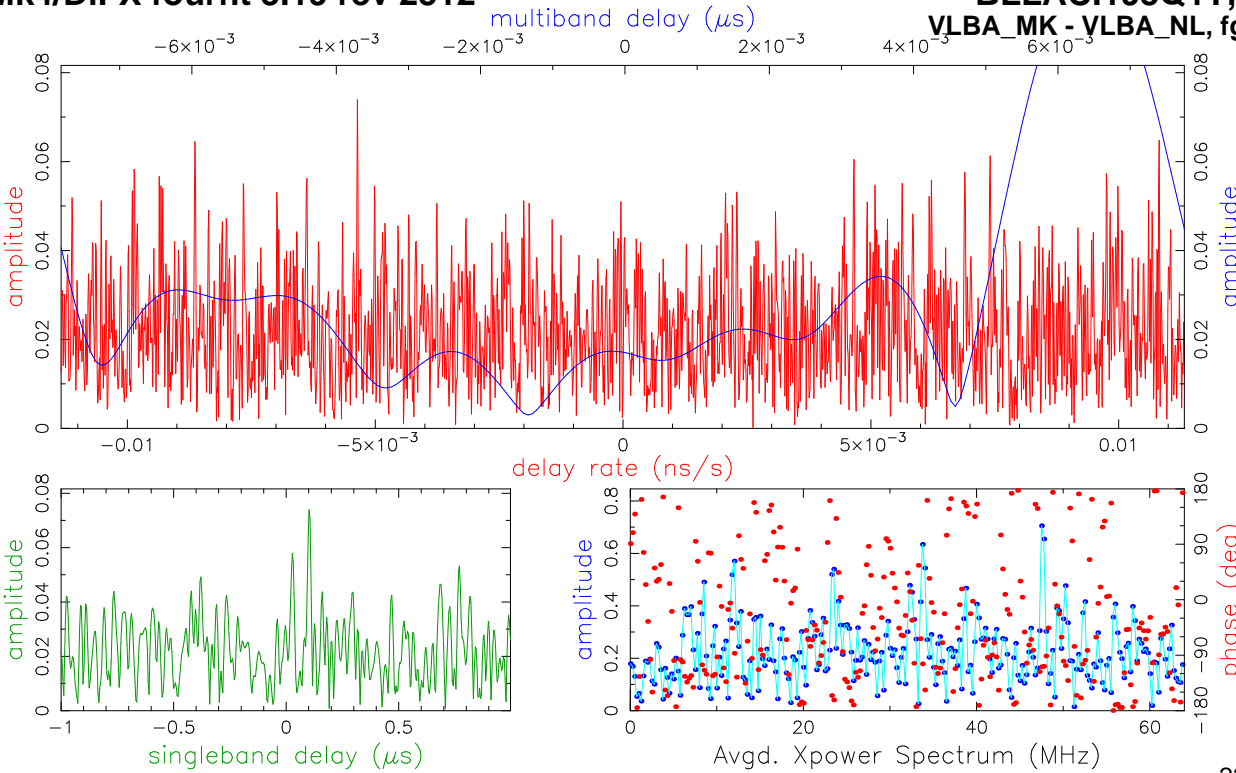
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
m	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-6.11600539922E+03	Apriori delay (usec)	-6.11554070675E+03	Resid mbdelay (usec)	4.05753E-03	+/-	1.7E-04
Sband delay (usec)	-6.11600444775E+03	Apriori clock (usec)	-2.4162107E+01	Resid sbdelay (usec)	-4.63741E-01	+/-	1.3E-03
Phase delay (usec)	-6.11554070862E+03	Apriori clockrate (us/s)	1.5700001E-07	Resid phdelay (usec)	-1.87029E-06	+/-	5.8E-07
Delay rate (us/s)	1.03624904468E+00	Apriori rate (us/s)	1.03625540514E+00	Resid rate (us/s)	-6.36046E-06	+/-	2.3E-09
Total phase (deg)	-230.6	Apriori accel (us/s/s)	7.54508999059E-06	Resid phase (deg)	-58.0	+/-	17.9

ph/seg (deg)	46.3	Theor.	42.8	Amplitude	0.129 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	67.8		74.7	Search (2048X32)	0.105	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	29.2		25.3	Inc. seg. avg.	0.125	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	24.0		44.1	Inc. frq. avg.	0.128	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

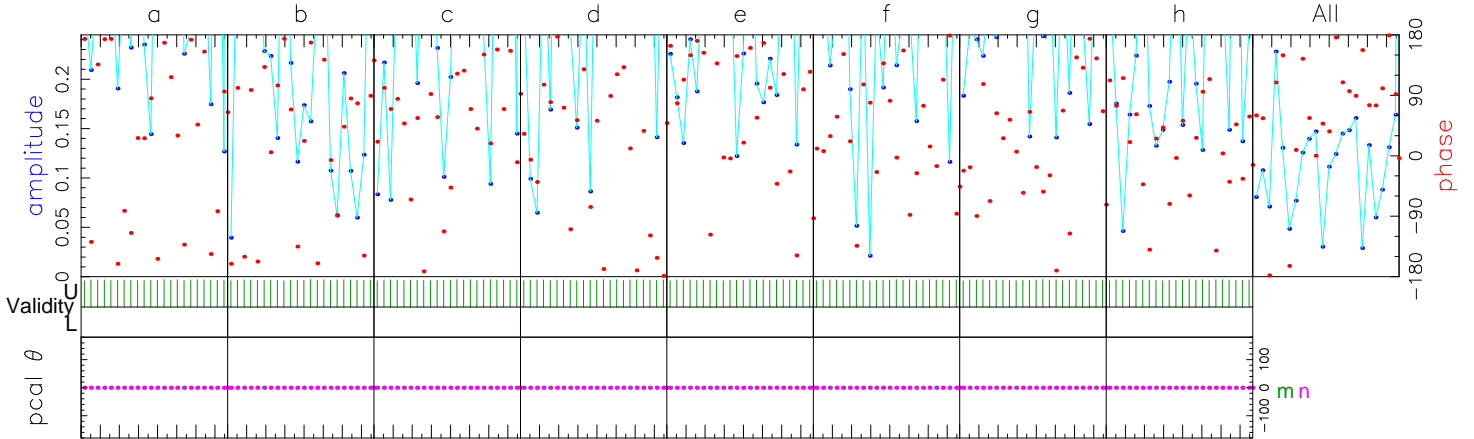
m: az 49.9 el 43.0 pa -102.5 n: az 278.0 el 79.2 pa 88.3 u,v (fr/asec) -8016.314 -1477.585 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/mn..193Q1T Output file: /Exps/c201d/v1/1234/No0048/mn.W.169.193Q1T



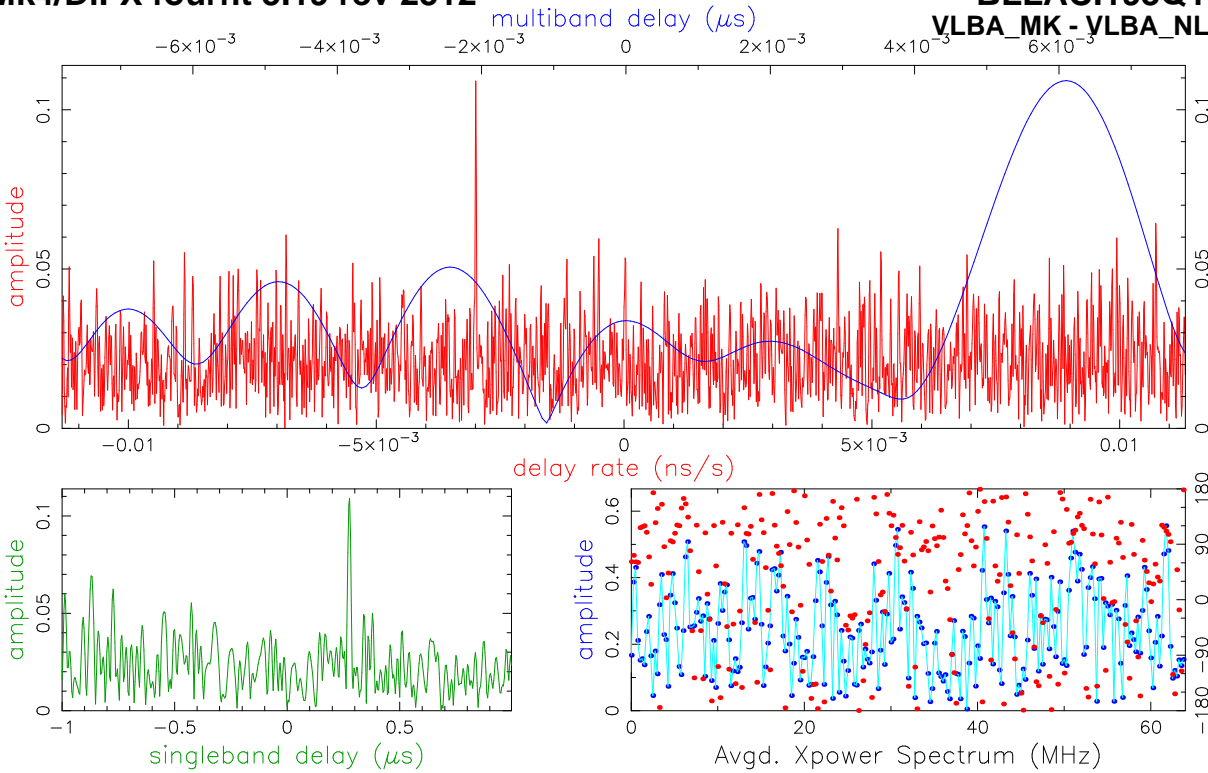
Fringe quality 0
SNR 4.2
Int time 429.415
Amp 0.082
Phase 96.8
PFD 1.0e+00
Delays (us)
SBD 0.102539
MBD -0.008301
Fringe rate (Hz)
-0.462396
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121404
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	175.5	139.8	98.5	119.7	123.7	44.8	28.3	27.4	Phase	96.8
	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	433.9	202.7	16.7	61.8	263.6	385.5	63.3	152.0	Sbd box	283.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.11543963253E+03		Apriori delay (usec)		-6.11554070675E+03		Resid mbdelay (usec)		-8.30078E-03	+/- 2.6E-04
Sband delay (usec)	-6.11543816825E+03		Apriori clock (usec)		-2.4162107E+01		Resid sbdelay (usec)		1.02539E-01	+/- 2.0E-03
Phase delay (usec)	-6.11554070363E+03		Apriori clockrate (us/s)		1.5700001E-07		Resid phdelay (usec)		3.12126E-06	+/- 8.8E-07
Delay rate (us/s)	1.03625003718E+00		Apriori rate (us/s)		1.03625540514E+00		Resid rate (us/s)		-5.36796E-06	+/- 3.5E-09
Total phase (deg)			Apriori accel (us/s/s)		7.54508999059E-06		Resid phase (deg)		96.8	+/- 27.2

ph/seg (deg) 55.7 65.2 Search (2048X32) 0.101 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 88.3 113.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 59.9 38.5 Inc. seg. avg. 0.076 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 56.6 67.2 Inc. frq. avg. 0.100 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
m: az 49.9 el 43.0 pa -102.5 n: az 278.0 el 79.2 pa 88.3 u,v (fr/asec) -8016.314 -1477.585 ion window (TEC) 0.00 0.00 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/mn..193Q1T Output file: /Exps/c201d/v1/1234/No0048/mn.W.184.193Q1T

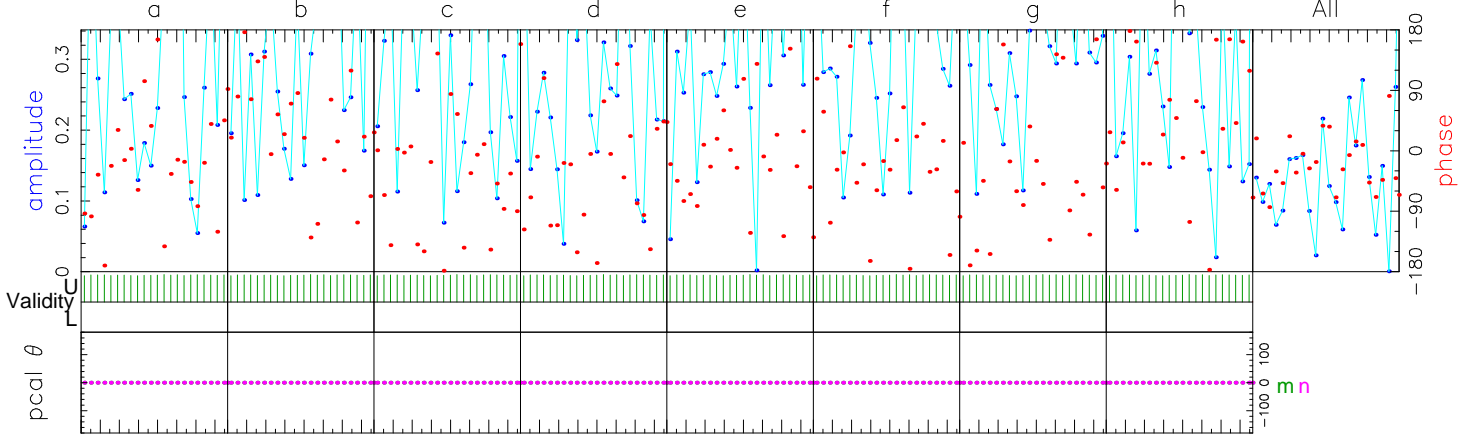


Fringe quality 0

SNR 6.3
Int time 429.417
Amp 0.114
Phase -15.8
PFD 9.2e-02
Delays (us)
SBD 0.275872
MBD 0.006040
Fringe rate (Hz)
-0.257669
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

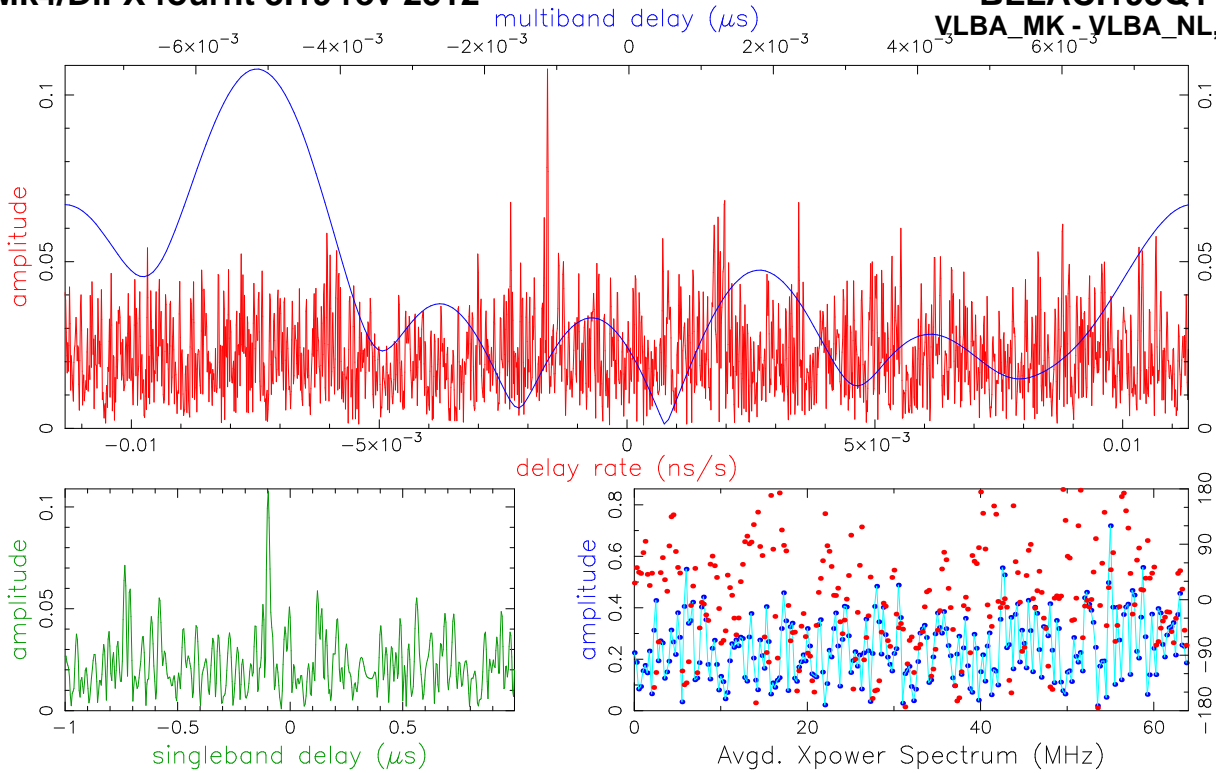
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121408
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



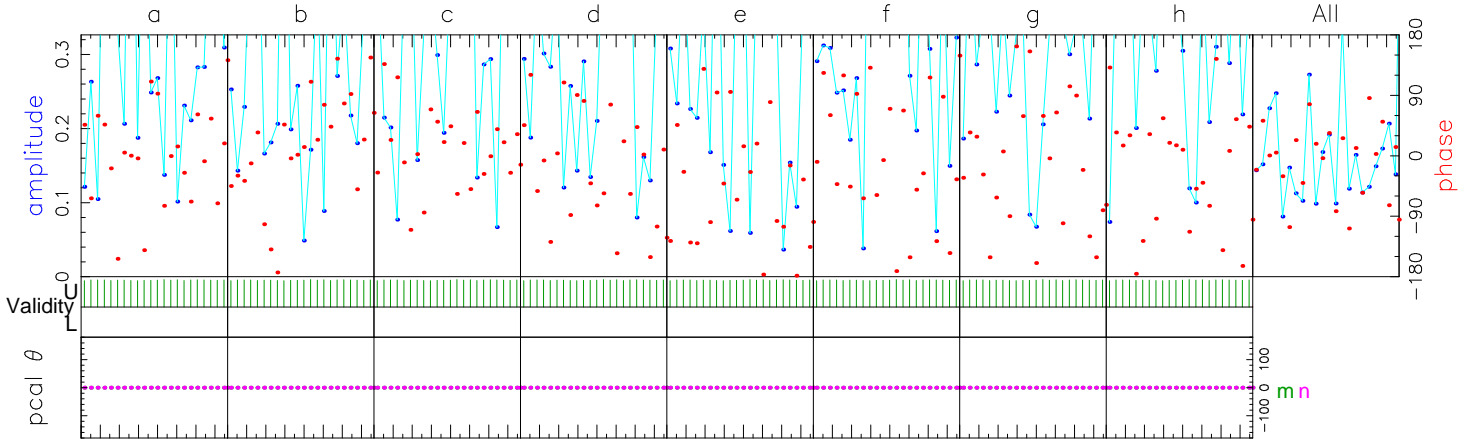
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-16.8	20.3	-35.8	-51.5	-19.3	-7.4	-68.6	29.7	Phase	-15.8
	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	Ampl.	0.1
	135.8	431.7	392.6	306.4	5.0	120.0	195.6	89.4	Sbd box	327.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.11526904155E+03		Apriori delay (usec)		-6.11554070675E+03		Resid mbdelay (usec)		6.04020E-03	+/- 1.7E-04
Sband delay (usec)	-6.11526483500E+03		Apriori clock (usec)		-2.4162107E+01		Resid sbdelay (usec)		2.75872E-01	+/- 1.4E-03
Phase delay (usec)	-6.11554070726E+03		Apriori clockrate (us/s)		1.5700001E-07		Resid phdelay (usec)		-5.08773E-07	+/- 5.9E-07
Delay rate (us/s)	1.03625241386E+00		Apriori rate (us/s)		1.03625540514E+00		Resid rate (us/s)		-2.99128E-06	+/- 2.3E-09
Total phase (deg)			Apriori accel (us/s/s)		7.54508999059E-06		Resid phase (deg)		-15.8	+/- 18.3

ph/seg (deg) 40.5 43.8 Search (2048X32) 0.106 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 68.5 76.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 36.4 25.8 Inc. seg. avg. 0.105 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 29.7 45.1 Inc. frq. avg. 0.116 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 m: az 49.9 el 43.0 pa -102.5 n: az 278.0 el 79.2 pa 88.3 u,v (fr/asec) -8016.314 -1477.585 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/mn..193Q1T Output file: /Exps/c201d/v1/1234/No0048/mn.W.204.193Q1T



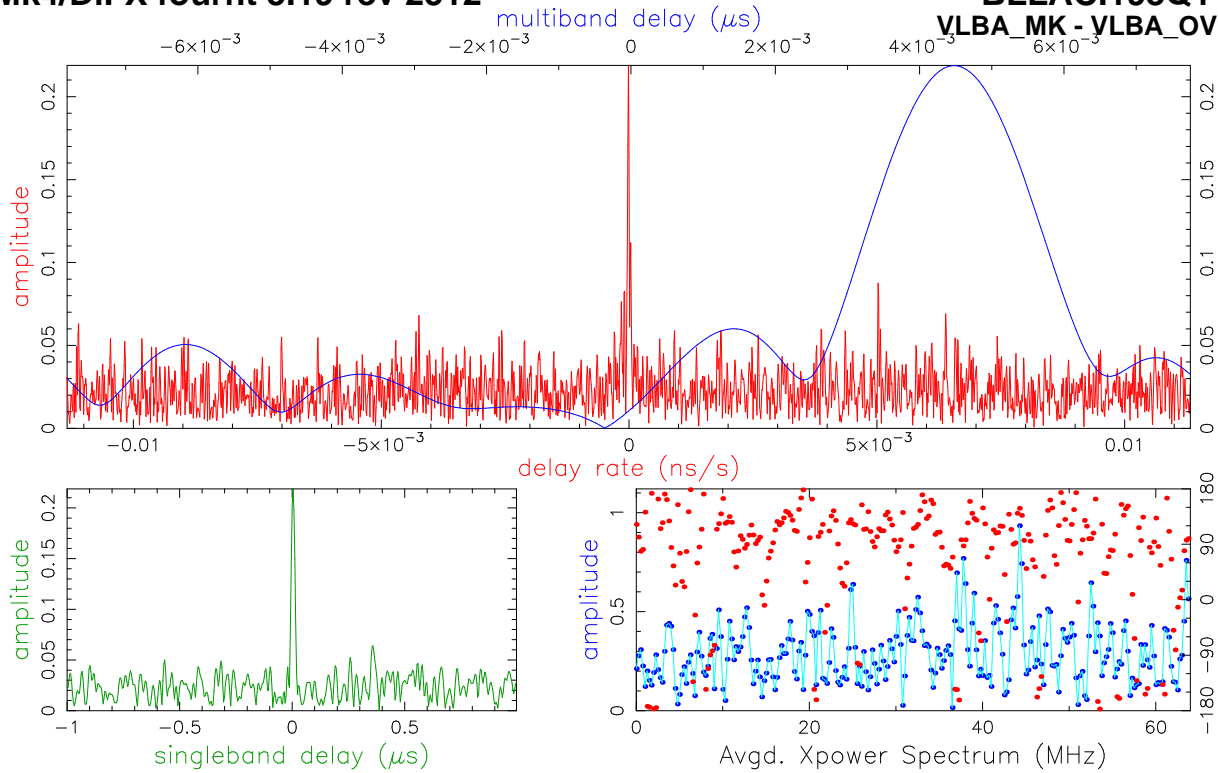
Fringe quality 0
SNR 6.1
Int time 429.415
Amp 0.109
Phase 5.8
PFD 2.2e-01
Delays (us)
SBD -0.098205
MBD -0.005183
Fringe rate (Hz)
-0.138684
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121412
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



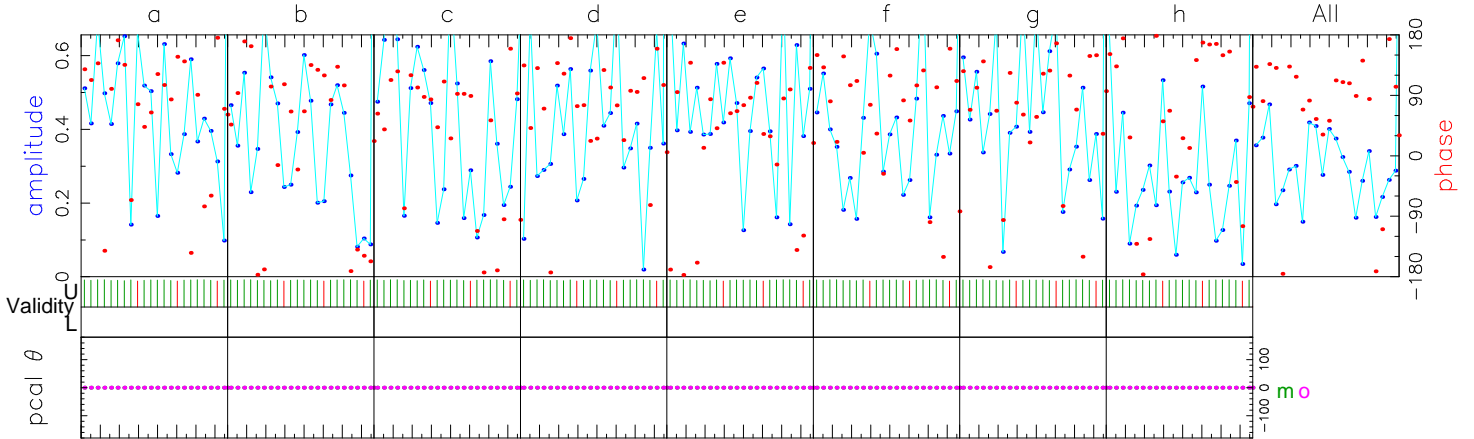
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	0.7	36.6	-3.3	-34.5	-47.2	63.4	-7.8	15.2	Phase	5.8
	0.2	0.2	0.2	0.1	0.0	0.1	0.1	0.1	Ampl.	0.1
	83.0	135.2	231.4	288.0	181.3	250.5	235.6	175.5	Sbd box	231.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.11563963932E+03		Apriori delay (usec)		-6.11554070675E+03		Resid mbdelay (usec)		-5.18257E-03	+/- 1.8E-04
Sband delay (usec)	-6.11563891200E+03		Apriori clock (usec)		-2.4162107E-01		Resid sbdelay (usec)		-9.82053E-02	+/- 1.4E-03
Phase delay (usec)	-6.11554070656E+03		Apriori clockrate (us/s)		1.5700001E-07		Resid phdelay (usec)		1.86297E-07	+/- 6.0E-07
Delay rate (us/s)	1.03625379516E+00		Apriori rate (us/s)		1.03625540514E+00		Resid rate (us/s)		-1.60999E-06	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		7.54508999059E-06		Resid phase (deg)		5.8	+/- 18.7

ph/seg (deg) 54.6 44.9 Search (2048X32) 0.100 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 77.7 78.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 38.9 26.5 Inc. seg. avg. 0.125 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 55.4 46.2 Inc. frq. avg. 0.110 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
m: az 49.9 el 43.0 pa -102.5 n: az 278.0 el 79.2 pa 88.3 u,v (fr/asec) -8016.314 -1477.585 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/mn..193Q1T Output file: /Exps/c201d/v1/1234/No0048/mn.W.223.193Q1T



Fringe quality 9
SNR 12.4
Int time 428.038
Amp 0.219
Phase 107.3
PFD 1.7e-26
Delays (us)
SBD 0.003628
MBD 0.004472
Fringe rate (Hz)
-0.001345
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121359
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

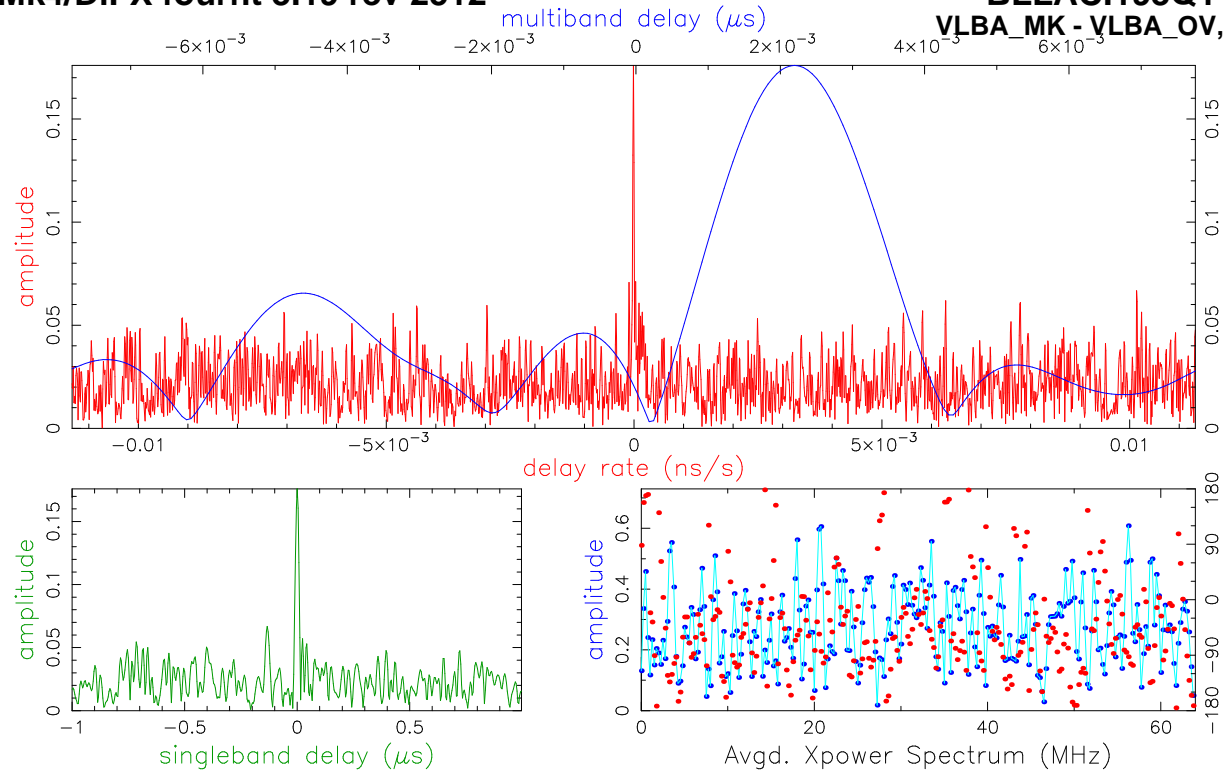
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	125.2	117.5	90.3	92.8	105.7	104.0	107.5	138.8	Phase	107.3
	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.1	Ampl.	0.2
	257.7	258.0	257.3	259.0	258.0	258.5	258.2	43.9	Sbd box	257.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.23529282535E+03		Apriori delay (usec)		-6.23529729732E+03		Resid mbdelay (usec)		4.47197E-03	+/- 8.8E-05
Sband delay (usec)	-6.23529366957E+03		Apriori clock (usec)		-1.1947161E+01		Resid sbdelay (usec)		3.62775E-03	+/- 7.0E-04
Phase delay (usec)	-6.23529729386E+03		Apriori clockrate (us/s)		2.8999998E-07		Resid phdelay (usec)		3.45933E-06	+/- 3.0E-07
Delay rate (us/s)	6.30228450581E-01		Apriori rate (us/s)		6.30228466197E-01		Resid rate (us/s)		-1.56159E-08	+/- 1.2E-09
Total phase (deg)	38.4		Apriori accel (us/s/s)		1.28874663623E-05		Resid phase (deg)		107.3	+/- 9.3

	RMS	Theor.	Amplitude	0.219 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	50.8	22.2	Search (2048X32)	0.209	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	55.7	38.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	17.9	13.1	Inc. seg. avg.	0.278	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	23.9	22.8	Inc. frq. avg.	0.220	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

m: az 49.9 el 43.0 pa -102.5 o: az 57.3 el 79.4 pa -113.4 u,v (fr/asec) -4857.195 -742.849 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/mo..193Q1T Output file: /Exps/c201d/v1/1234/No0048/mo.W.168.193Q1T

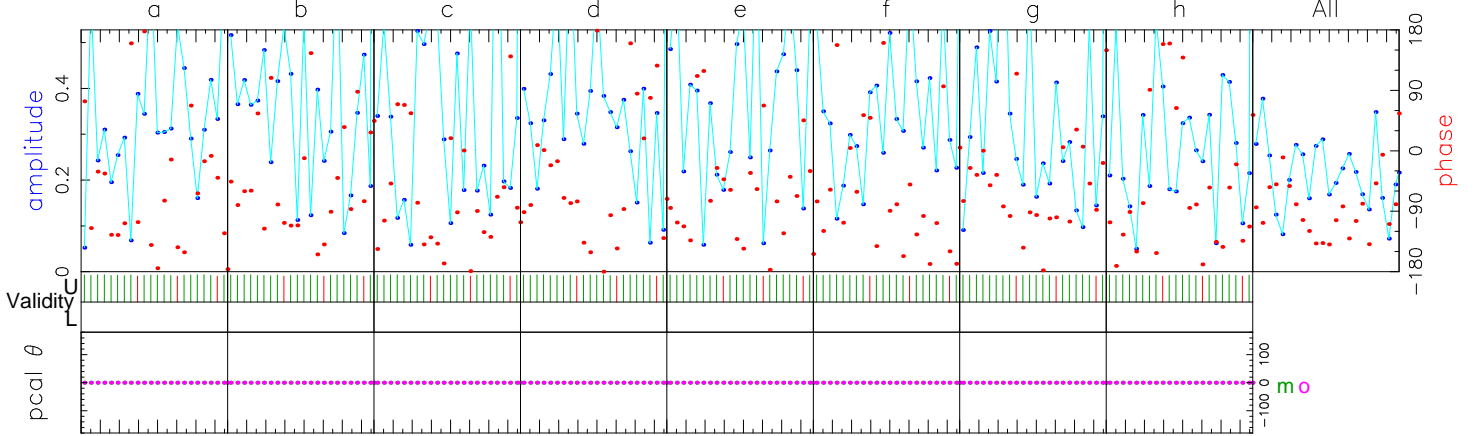


Fringe quality 9

SNR 10.0
Int time 428.038
Amp 0.176
Phase -92.6
PFD 1.0×10^{-14}
Delays (us)
SBD 0.000042
MBD 0.002197
Fringe rate (Hz) -0.001233
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

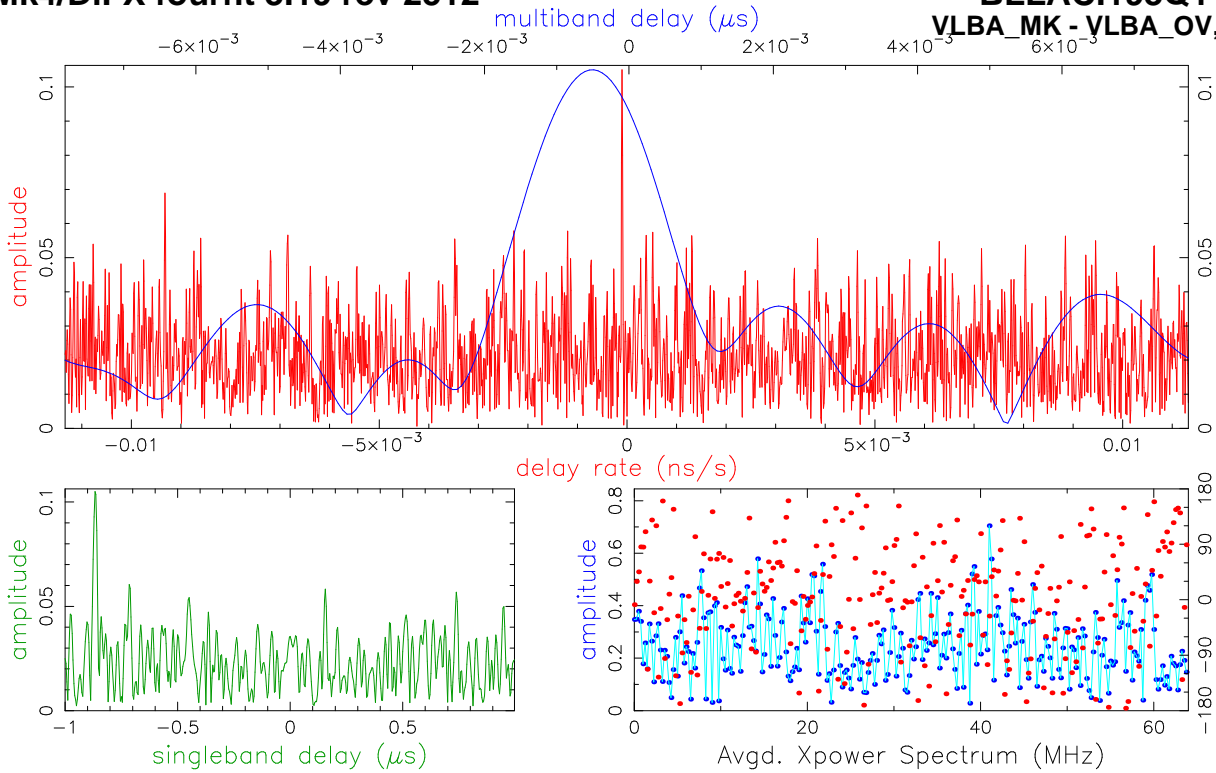
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121404
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



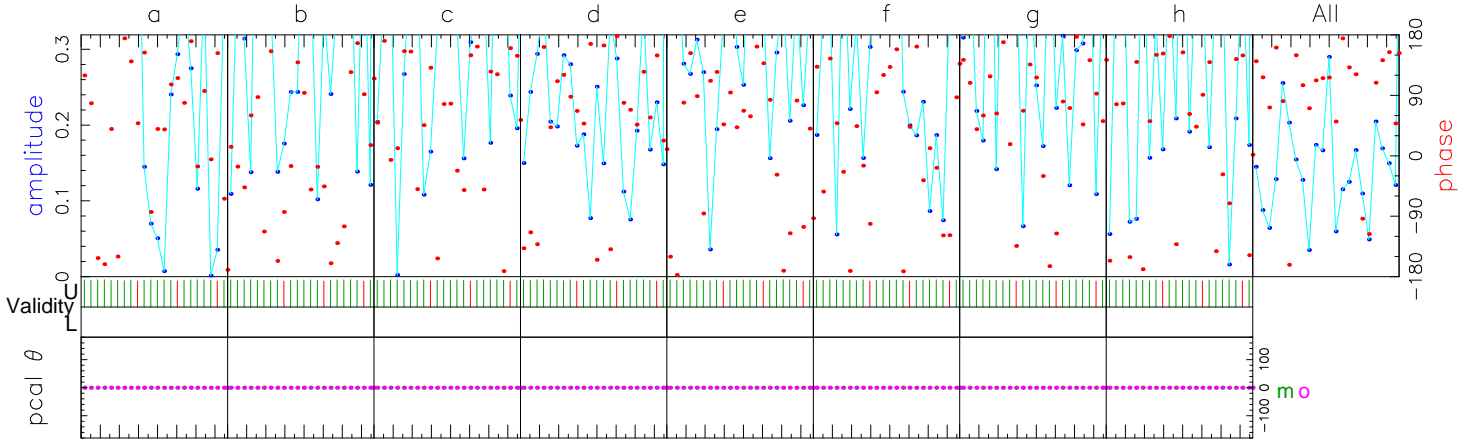
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-105.8	-70.7	-107.0	-90.3	-84.6	-105.4	-65.6	-128.1	Phase	-92.6
	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	Ampl.	0.2
	223.7	498.7	256.8	255.1	256.4	476.1	257.5	258.3	Sbd box	257.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.23529510057E+03		Apriori delay (usec)		-6.23529729732E+03		Resid mbdelay (usec)		2.19675E-03	+/- 1.1E-04
Sband delay (usec)	-6.23529725482E+03		Apriori clock (usec)		-1.1947161E+01		Resid sbdelay (usec)		4.25000E-05	+/- 8.7E-04
Phase delay (usec)	-6.23529730031E+03		Apriori clockrate (us/s)		2.8999998E-07		Resid phdelay (usec)		-2.98452E-06	+/- 3.7E-07
Delay rate (us/s)	6.30228451884E-01		Apriori rate (us/s)		6.30228466197E-01		Resid rate (us/s)		-1.43129E-08	+/- 1.5E-09
Total phase (deg)			Apriori accel (us/s/s)		1.28874663623E-05		Resid phase (deg)		-92.6	+/- 11.5

ph/seg (deg) 39.2 27.6 Amplitude 0.176 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 48.8 48.2 Search (2048X32) 0.168 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 22.7 16.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 23.1 28.4 Inc. seg. avg. 0.192 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 m: az 49.9 el 43.0 pa -102.5 o: az 57.3 el 79.4 pa -113.4 u,v (fr/asec) -4857.195 -742.849 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/mo..193Q1T Output file: /Exps/c201d/v1/1234/No0048/mo.W.183.193Q1T simultaneous interpolator

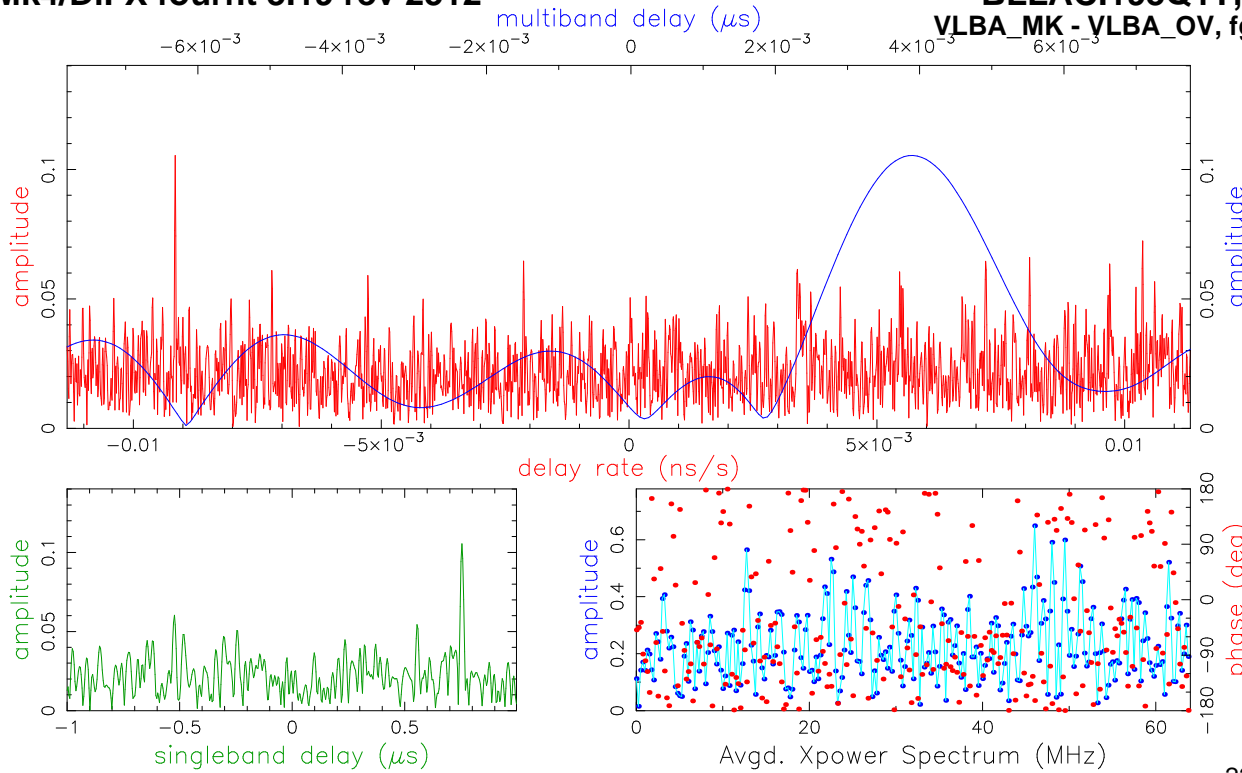


Fringe quality 0
SNR 6.0
Int time 428.038
Amp 0.106
Phase 126.2
PFD 3.7e-01
Delays (us)
SBD -0.865557
MBD -0.000495
Fringe rate (Hz)
-0.008788
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121408
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All		
130.7	97.8	132.4	137.8	107.7	124.0	120.2	137.4	137.4	Phase	126.2		
0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1		
109.3	311.8	261.2	295.4	35.8	6.9	143.8	122.6	122.6	Sbd box	35.4		
U/L 859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used			
m 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
o 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
m:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase			
m:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC			
m 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp			
o 1000	1000	1000	1000	1000	1000	1000	1000	1000				
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids			
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks			
									Tracks			
Group delay (usec)(sbd)	-6.23615716728E+03		Apriori delay (usec)		-6.23529729732E+03		Resid mbdelay (usec)		-4.94958E-04	+/- 1.8E-04		
Sband delay (usec)	-6.23616285407E+03		Apriori clock (usec)		-1.1947161E+01		Resid sbdelay (usec)		-8.65557E-01	+/- 1.4E-03		
Phase delay (usec)	-6.23529729325E+03		Apriori clockrate (us/s)		2.8999998E-07		Resid phdelay (usec)		4.06810E-06	+/- 6.1E-07		
Delay rate (us/s)	6.30228364182E-01		Apriori rate (us/s)		6.30228466197E-01		Resid rate (us/s)		-1.02015E-07	+/- 2.4E-09		
Total phase (deg)	57.3		Apriori accel (us/s/s)		1.28874663623E-05		Resid phase (deg)		126.2	+/- 19.0		
	RMS	Theor.	Amplitude	0.106 +/- 0.018		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
ph/seg (deg)	54.5	45.7	Search (2048X32)	0.103		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000		
amp/seg (%)	67.8	79.7	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	15.8	26.9	Inc. seg. avg.	0.107		Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011		
amp/frq (%)	42.4	47.0	Inc. frq. avg.	0.096		Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00
m: az 49.9 el 43.0 pa -102.5 o: az 57.3 el 79.4 pa -113.4 u,v (fr/asec) -4857.195 -742.849 simultaneous interpolator												
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/mo..193Q1T Output file: /Exps/c201d/v1/1234/No0048/mo.W.206.193Q1T												

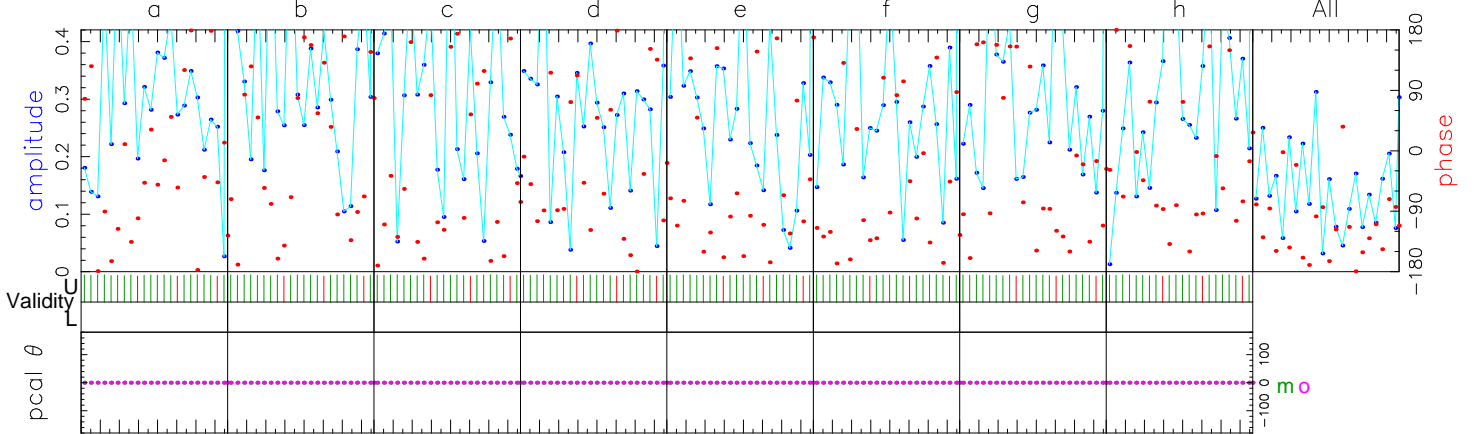


Fringe quality 0

SNR 6.0
Int time 428.037
Amp 0.140
Phase -123.6
PFD 4.7e-01
Delays (us)
SBD 0.754088
MBD 0.003906
Fringe rate (Hz)
-0.789696
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

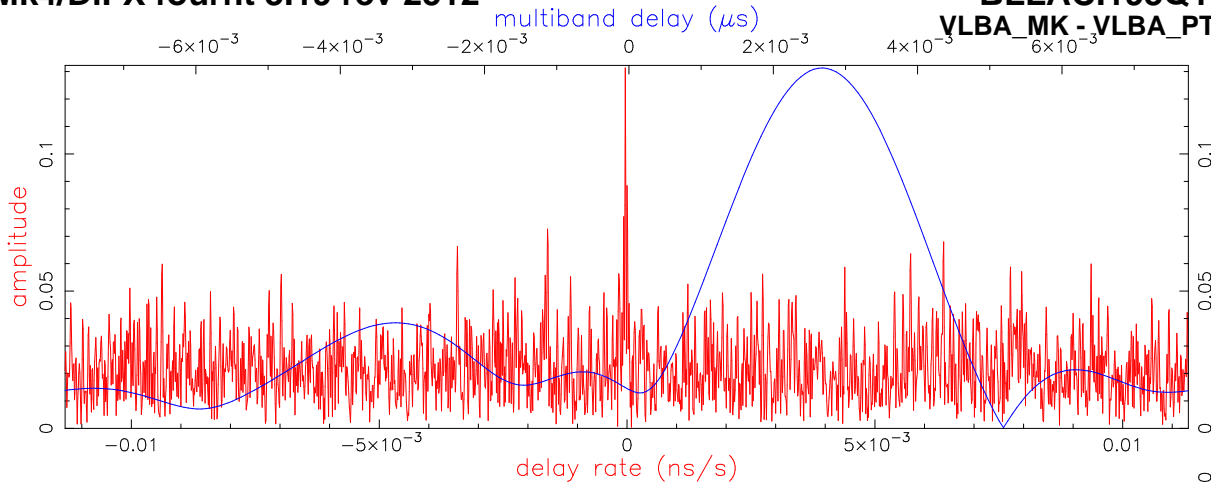
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121413
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



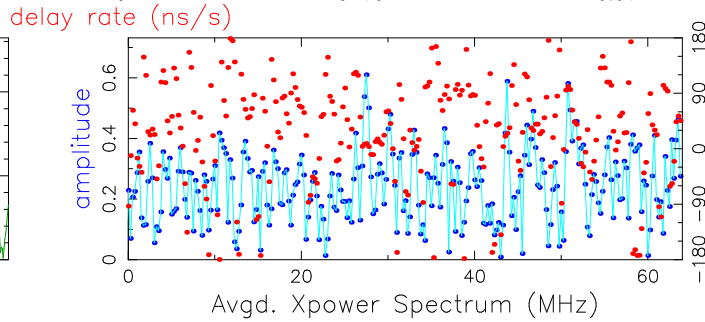
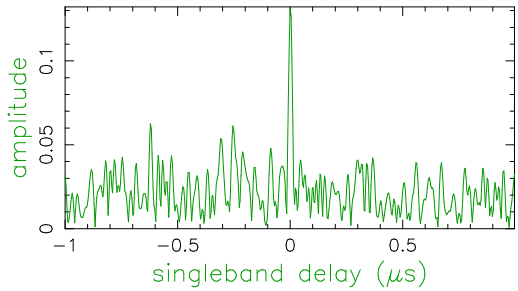
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-90.1	-125.6	-157.6	-96.7	-134.4	-126.9	-133.3	-109.0	Phase	-123.6
	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	Ampl.	0.1
	409.7	326.4	396.3	181.8	450.9	374.0	461.7	448.9	Sbd box	450.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.23454339086E+03		Apriori delay (usec)		-6.23529729732E+03		Resid mbdelay (usec)		3.90646E-03	+/- 1.8E-04
Sband delay (usec)	-6.23454320907E+03		Apriori clock (usec)		-1.1947161E+01		Resid sbdelay (usec)		7.54088E-01	+/- 1.4E-03
Phase delay (usec)	-6.23529730131E+03		Apriori clockrate (us/s)		2.8999998E-07		Resid phdelay (usec)		-3.98577E-06	+/- 6.2E-07
Delay rate (us/s)	6.30219298609E-01		Apriori rate (us/s)		6.30228466197E-01		Resid rate (us/s)		-9.16759E-06	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		1.28874663623E-05		Resid phase (deg)		-123.6	+/- 19.2

ph/seg (deg) 56.8 46.1 Search (2048X32) 0.104 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.4 80.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 23.9 27.2 Inc. seg. avg. 0.140 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 33.1 47.4 Inc. frq. avg. 0.135 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 m: az 49.9 el 43.0 pa -102.5 o: az 57.3 el 79.4 pa -113.4 u,v (fr/asec) -4857.195 -742.849 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/mo..193Q1T Output file: /Exps/c201d/v1/1234/No0048/mo.W.226.193Q1T



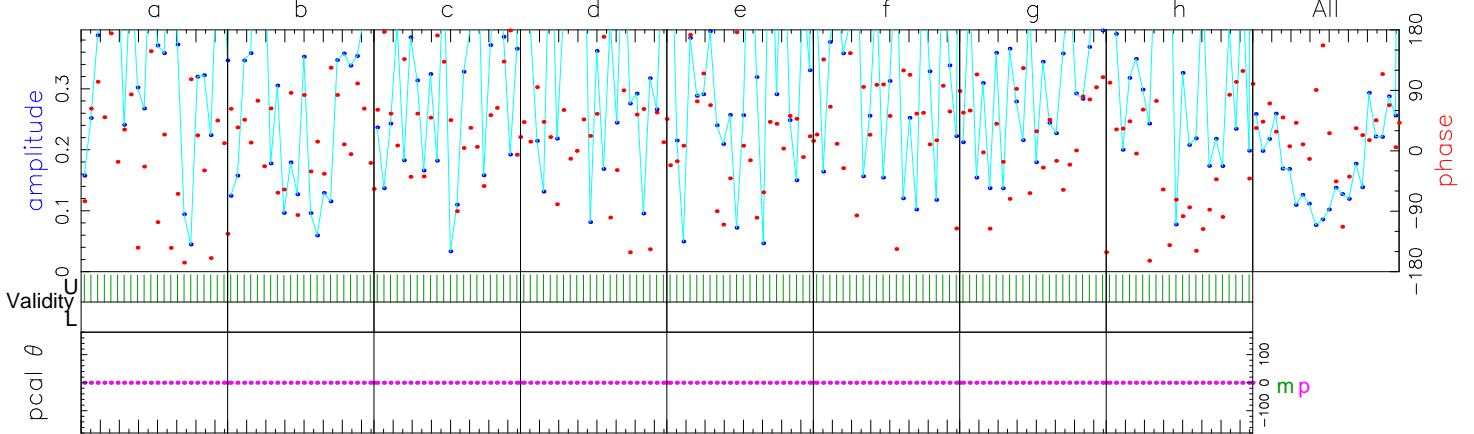
Fringe quality 9

SNR 7.5
Int time 435.240
Amp 0.132
Phase 33.4
PFD 1.5e-05
Delays (us)
SBD 0.001133
MBD 0.002674
Fringe rate (Hz)
-0.003202
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121400
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



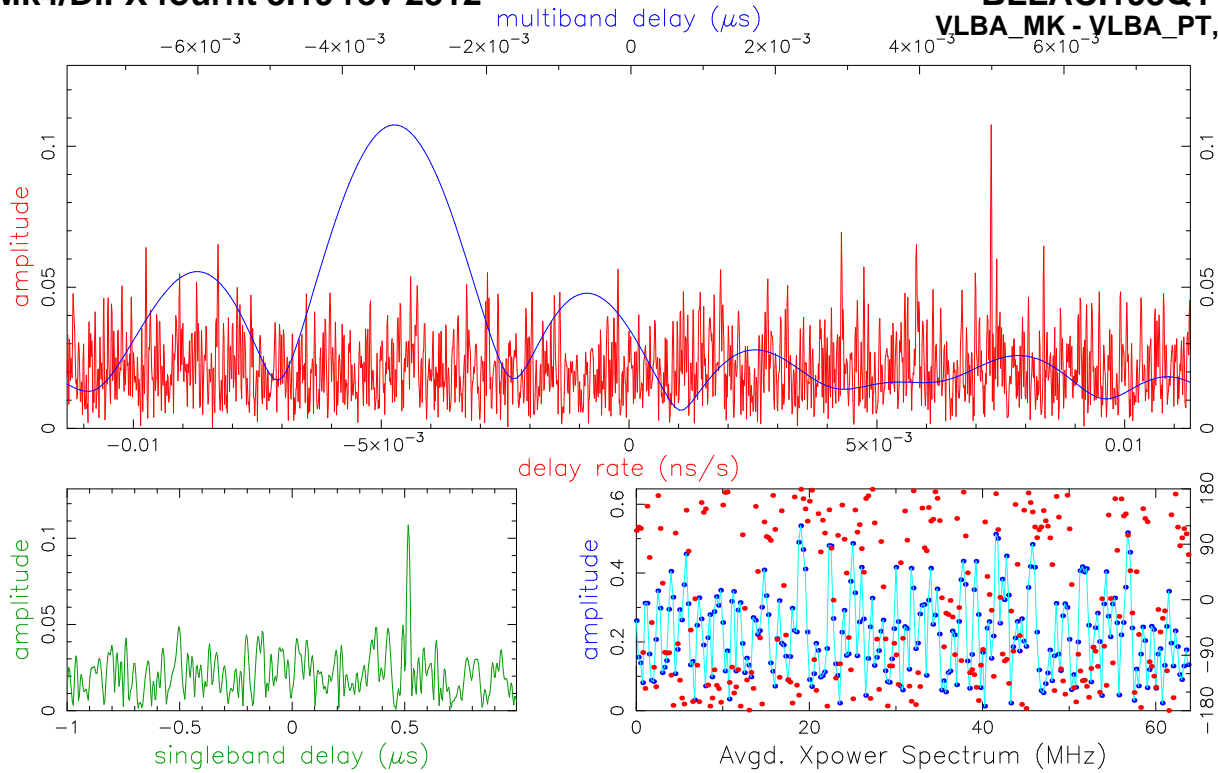
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
m	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-6.33851664219E+03	Apriori delay (usec)	-6.33851931651E+03	Resid mbdelay (usec)	2.67433E-03	+/-	1.4E-04
Sband delay (usec)	-6.33851818376E+03	Apriori clock (usec)	-9.1389046E+00	Resid sbdelay (usec)	1.13275E-03	+/-	1.1E-03
Phase delay (usec)	-6.33851931544E+03	Apriori clockrate (us/s)	2.8700000E-07	Resid phdelay (usec)	1.07695E-06	+/-	4.9E-07
Delay rate (us/s)	7.90714414506E-01	Apriori rate (us/s)	7.90714451674E-01	Resid rate (us/s)	-3.71681E-08	+/-	1.9E-09
Total phase (deg)	-299.4	Apriori accel (us/s/s)	1.65973626416E-05	Resid phase (deg)	33.4	+/-	15.2

ph/seg (deg)	54.6	Theor.	36.4	Amplitude	0.132 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	64.4		63.6	Search (2048X32)	0.122	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	16.2		21.5	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	44.5		37.5	Inc. seg. avg.	0.147	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.127	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

m: az 49.9 el 43.0 pa -102.5 p: az 10.2 el 81.8 pa -171.7 u,v (fr/asec) -6092.166 -187.528 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/mp..193Q1T Output file: /Exps/c201d/v1/1234/No0048/mp.W.170.193Q1T

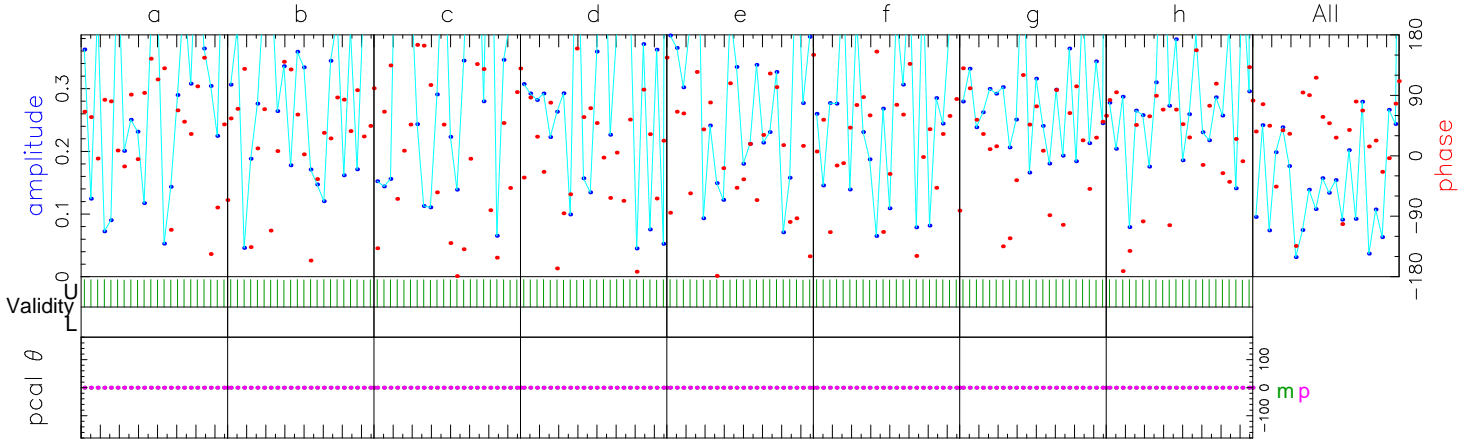


Fringe quality 0

SNR 6.1
Int time 435.240
Amp 0.129
Phase 45.4
PFD 1.9e-01
Delays (us)
SBD 0.516128
MBD -0.003258
Fringe rate (Hz) 0.630268
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

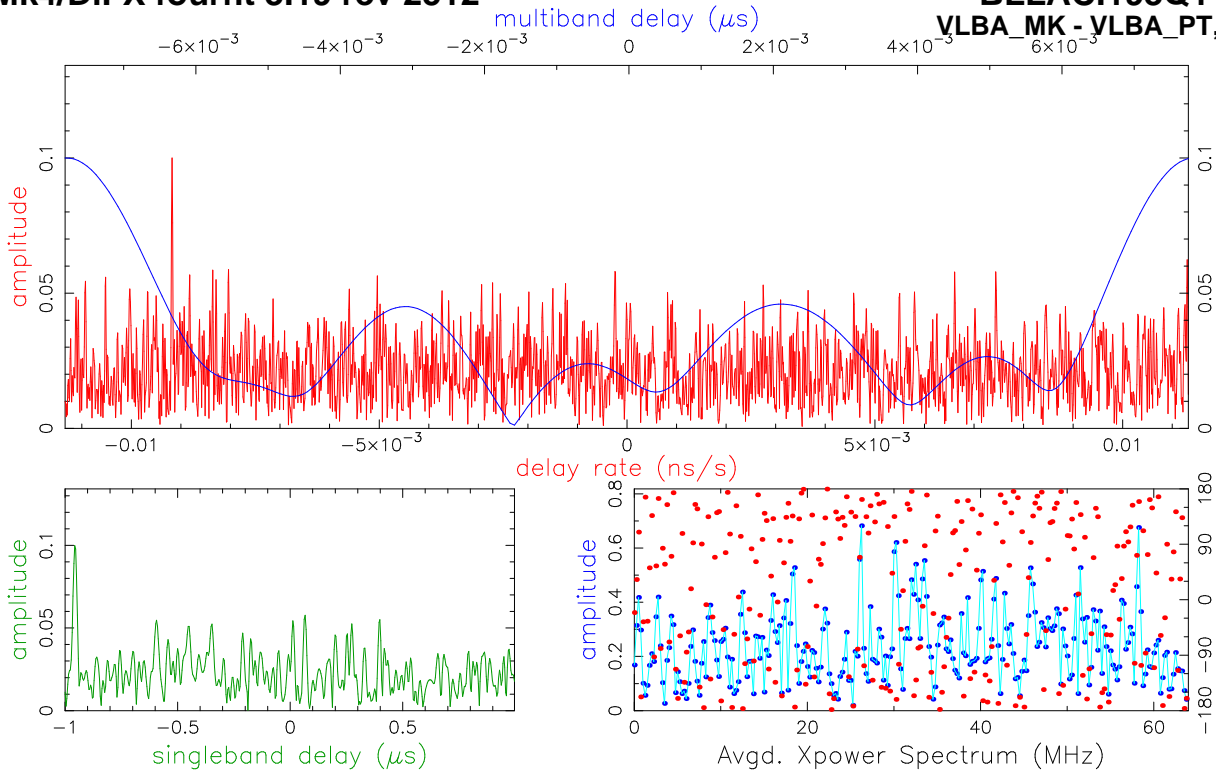
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121404
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



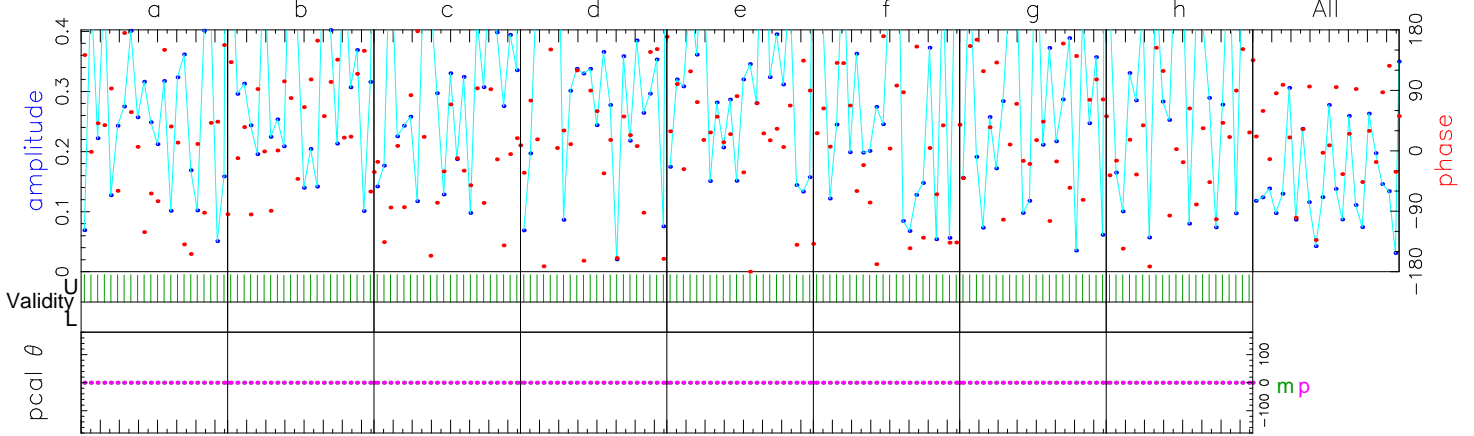
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	63.8	52.9	7.2	14.9	28.5	41.5	50.4	58.3	Phase	45.4
	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.1	Ampl.	0.1
	176.9	389.0	225.1	61.6	307.2	426.5	137.5	168.2	Sbd box	389.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.33800694935E+03		Apriori delay (usec)		-6.33851931651E+03		Resid mbdelay (usec)		-3.25784E-03	+/- 1.8E-04
Sband delay (usec)	-6.33800318801E+03		Apriori clock (usec)		-9.1389046E+00		Resid sbdelay (usec)		5.16128E-01	+/- 1.4E-03
Phase delay (usec)	-6.33851931505E+03		Apriori clockrate (us/s)		2.8700000E-07		Resid phdelay (usec)		1.46481E-06	+/- 6.0E-07
Delay rate (us/s)	7.90721768455E-01		Apriori rate (us/s)		7.90714451674E-01		Resid rate (us/s)		7.31678E-06	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		1.65973626416E-05		Resid phase (deg)		45.4	+/- 18.6

ph/seg (deg) 61.9 44.7 Search (2048X32) 0.106 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 80.2 78.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 23.4 26.4 Inc. seg. avg. 0.134 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.3 46.0 Inc. frq. avg. 0.122 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 m: az 49.9 el 43.0 pa -102.5 p: az 10.2 el 81.8 pa -171.7 u,v (fr/asec) -6092.166 -187.528 ion window (TEC) 0.00 0.00
 simultaneous interpolator



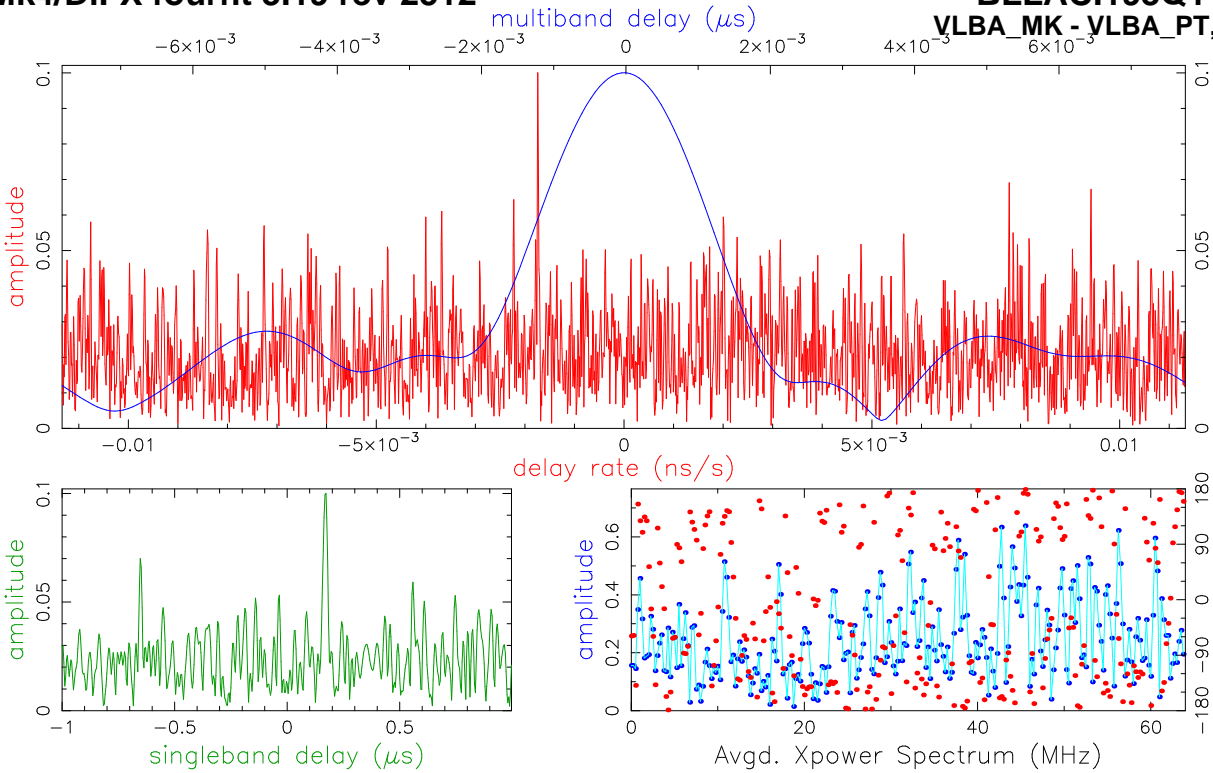
Fringe quality 0
SNR 5.7
Int time 435.240
Amp 0.134
Phase 32.4
PFD 8.9e-01
Delays (us)
SBD -0.955669
MBD -0.007756
Fringe rate (Hz)
-0.791553
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121408
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	1.3	51.9	-14.6	51.8	44.3	62.9	29.0	8.9	Phase	32.4
	0.1	0.2	0.1	0.1	0.3	0.1	0.1	0.2	Ampl.	0.1
	262.5	476.0	163.7	204.0	12.0	142.1	281.0	109.1	Sbd box	12.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.33948019758E+03		Apriori delay (usec)		-6.33851931651E+03		Resid mbdelay (usec)		-7.75606E-03	+/- 1.9E-04
Sband delay (usec)	-6.33947498576E+03		Apriori clock (usec)		-9.1389046E+00		Resid sbdelay (usec)		-9.55669E-01	+/- 1.5E-03
Phase delay (usec)	-6.33851931547E+03		Apriori clockrate (us/s)		2.8700000E-07		Resid phdelay (usec)		1.04557E-06	+/- 6.4E-07
Delay rate (us/s)	7.90705262527E-01		Apriori rate (us/s)		7.90714451674E-01		Resid rate (us/s)		-9.18915E-06	+/- 2.5E-09
Total phase (deg)	-300.4		Apriori accel (us/s/s)		1.65973626416E-05		Resid phase (deg)		32.4	+/- 19.9

ph/seg (deg) 66.3 47.8 Search (2048X32) 0.099 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 87.9 83.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 30.5 28.2 Inc. seg. avg. 0.146 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 47.2 49.2 Inc. frq. avg. 0.131 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 m: az 49.9 el 43.0 pa -102.5 p: az 10.2 el 81.8 pa -171.7 u,v (fr/asec) -6092.166 -187.528 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/mp..193Q1T Output file: /Exps/c201d/v1/1234/No0048/mp.W.205.193Q1T simultaneous interpolator

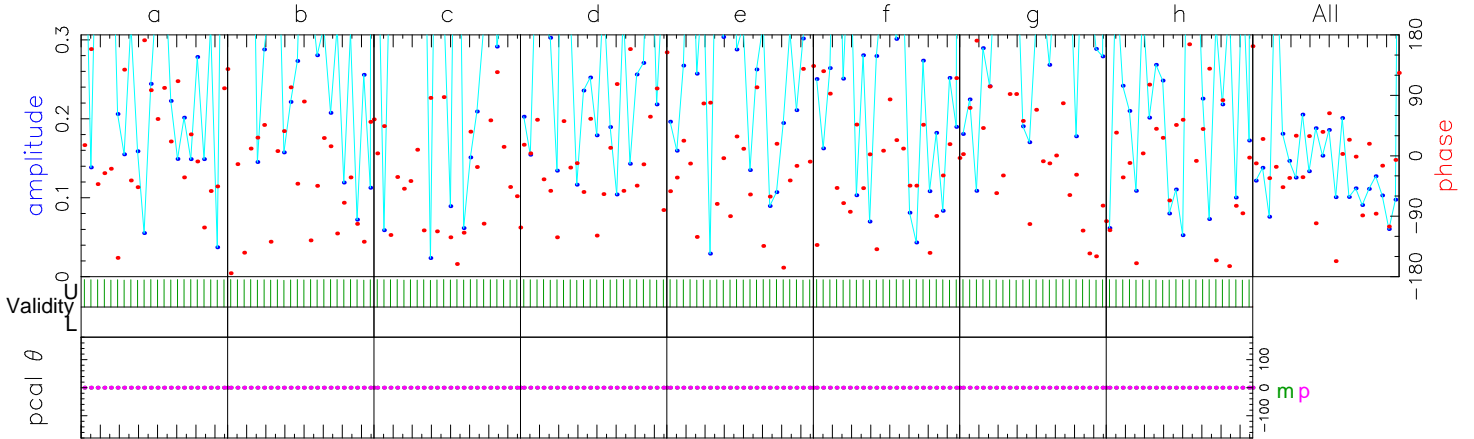


Fringe quality 0

SNR 5.8
Int time 435.240
Amp 0.102
Phase -13.3
PFD 8.6e-01
Delays (us)
SBD 0.170197
MBD -0.000053
Fringe rate (Hz)
-0.149835
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121412
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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

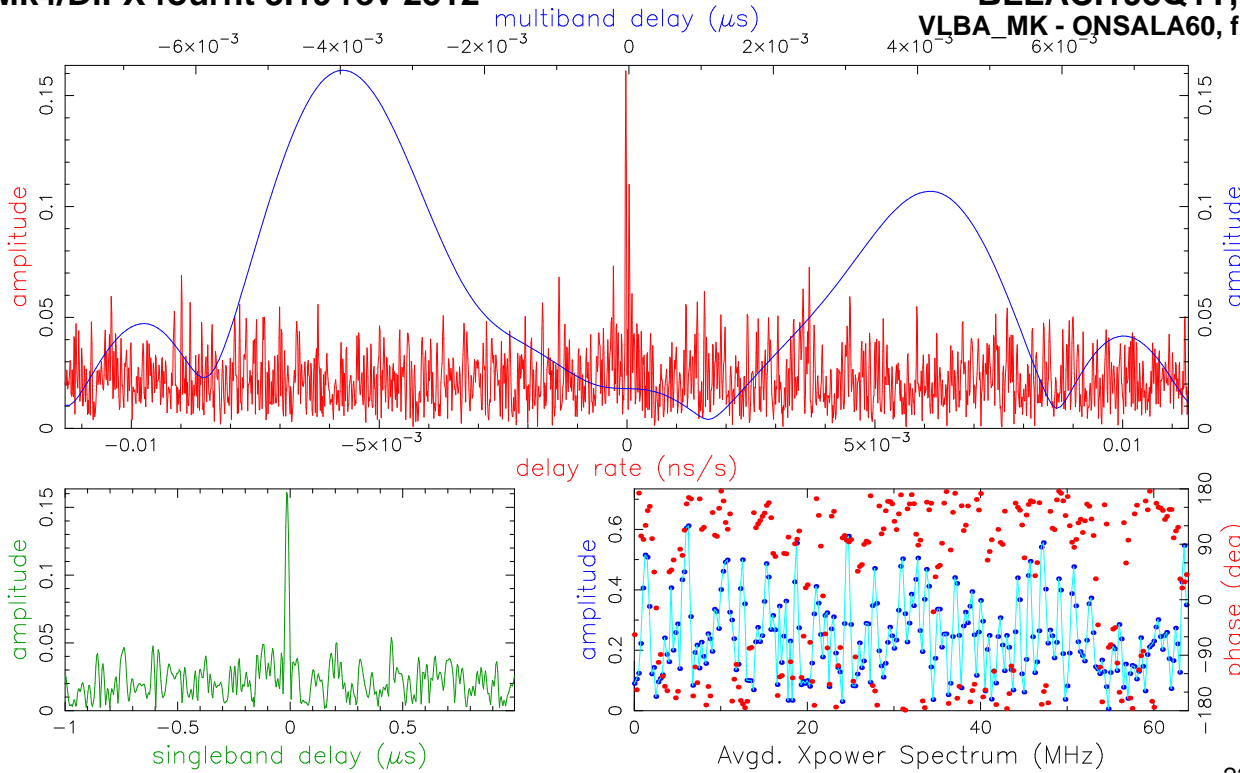


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	10.4	-13.3	-51.7	-3.2	-29.1	-17.6	0.6	17.7	Phase	-13.3
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	Ampl.	0.1
	90.1	268.4	153.3	112.7	110.9	447.9	202.2	76.2	Sbd box	300.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.33834749475E+03		Apriori delay (usec)		-6.33851931651E+03		Resid mbdelay (usec)		-5.32360E-05	+/- 1.9E-04
Sband delay (usec)	-6.33834911926E+03		Apriori clock (usec)		-9.1389046E+00		Resid sbdelay (usec)		1.70197E-01	+/- 1.5E-03
Phase delay (usec)	-6.33851931694E+03		Apriori clockrate (us/s)		2.8700000E-07		Resid phdelay (usec)		-4.29467E-07	+/- 6.4E-07
Delay rate (us/s)	7.90712712242E-01		Apriori rate (us/s)		7.90714451674E-01		Resid rate (us/s)		-1.73943E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		1.65973626416E-05		Resid phase (deg)		-13.3	+/- 19.9

ph/seg (deg) 55.0 47.6 Search (2048X32) 0.098 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 88.8 83.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 24.4 28.1 Inc. seg. avg. 0.110 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 29.8 49.0 Inc. frq. avg. 0.096 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 m: az 49.9 el 43.0 pa -102.5 p: az 10.2 el 81.8 pa -171.7 u,v (fr/asec) -6092.166 -187.528 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/mp..193Q1T Output file: /Exps/c201d/v1/1234/No0048/mp.W.225.193Q1T

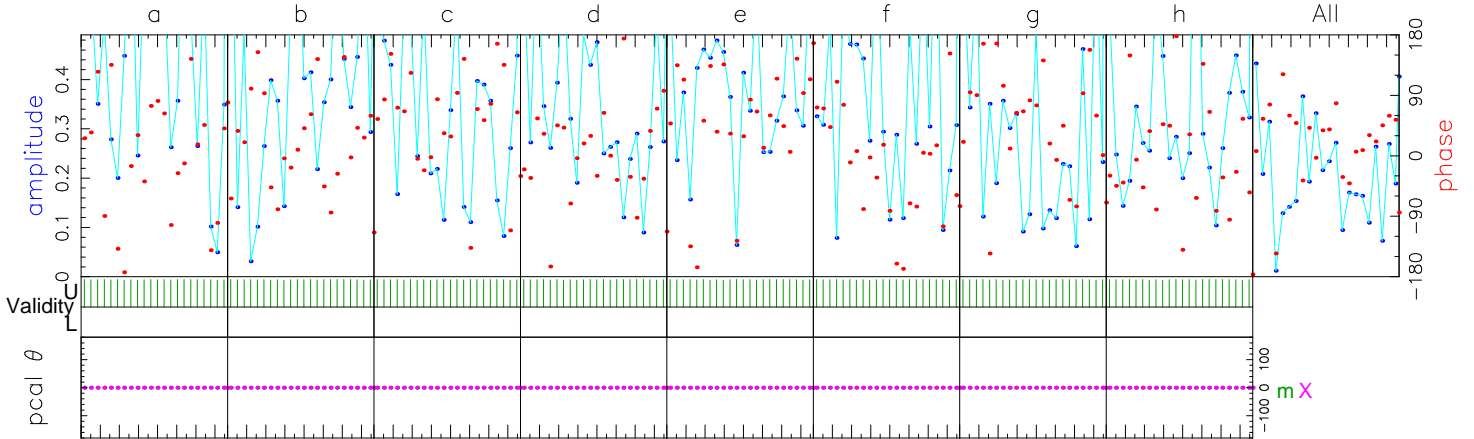
Mk4/DiFX fourfit 3.19 rev 2512

BLLAC.193Q1T, No0048, mX
VLBA_MK - ONSALA60, fgroup W, pol LL



Fringe quality 9
SNR 9.3
Int time 436.237
Amp 0.164
Phase 29.8
PFD 3.6e-12
Delays (us)
SBD -0.013994
MBD -0.003889
Fringe rate (Hz)
-0.001916
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121400
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
m	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
m:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
m:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
m	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	28.3	-0.5	70.9	16.1	79.0	-2.9	67.3	-31.9		
Sband delay (usec)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
Phase delay (usec)	252.7	252.4	253.0	253.3	253.1	253.3	253.9	252.0		
Delay rate (us/s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Total phase (deg)			102.5							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

ph/seg (deg) 53.8 29.4
amp/seg (%) 65.3 51.3
ph/frq (deg) 43.8 17.3
amp/frq (%) 28.2 30.3

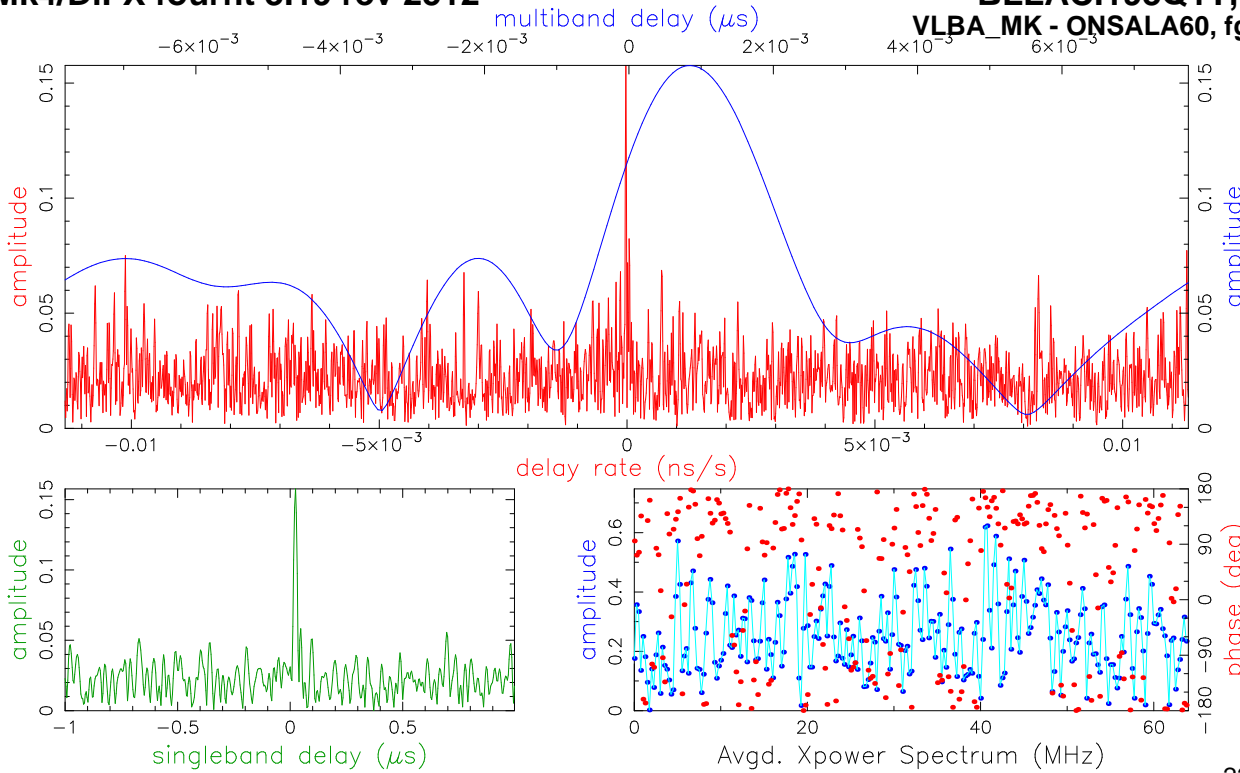
RMS Theor. Amplitude 0.164 +/- 0.018
Search (2048X32) 0.161
Interp. 0.000
Inc. seg. avg. 0.181
Inc. frq. avg. 0.193

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

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

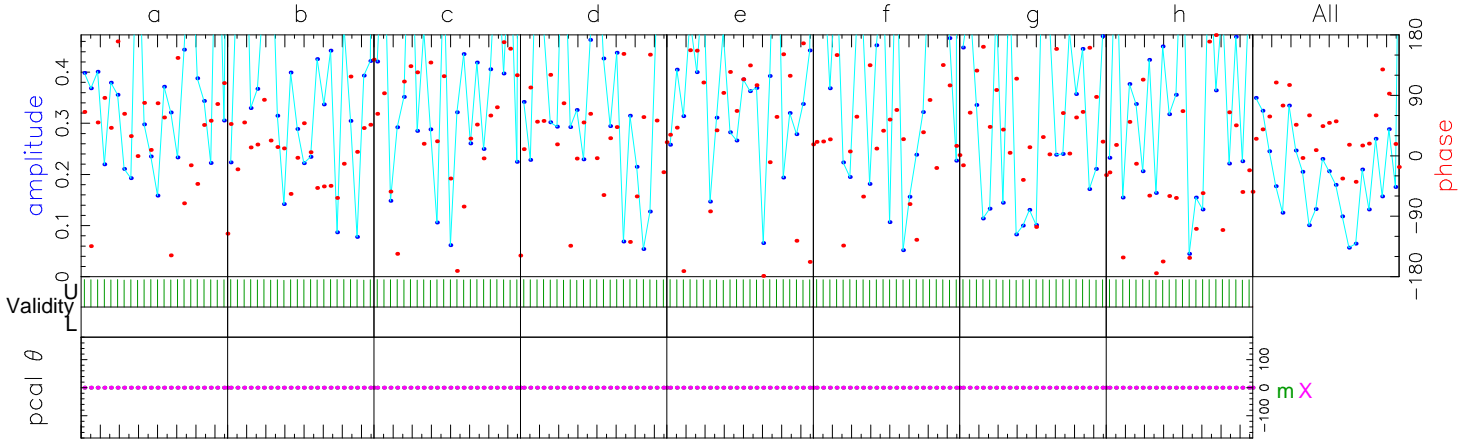
m: az 49.9 el 43.0 pa -102.5 X: az 315.2 el 22.4 pa 30.7 u,v (fr/asec) -10587.650 -8480.802 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/mX..193Q1T Output file: /Exps/c201d/v1/1234/No0048/mX.W.172.193Q1T



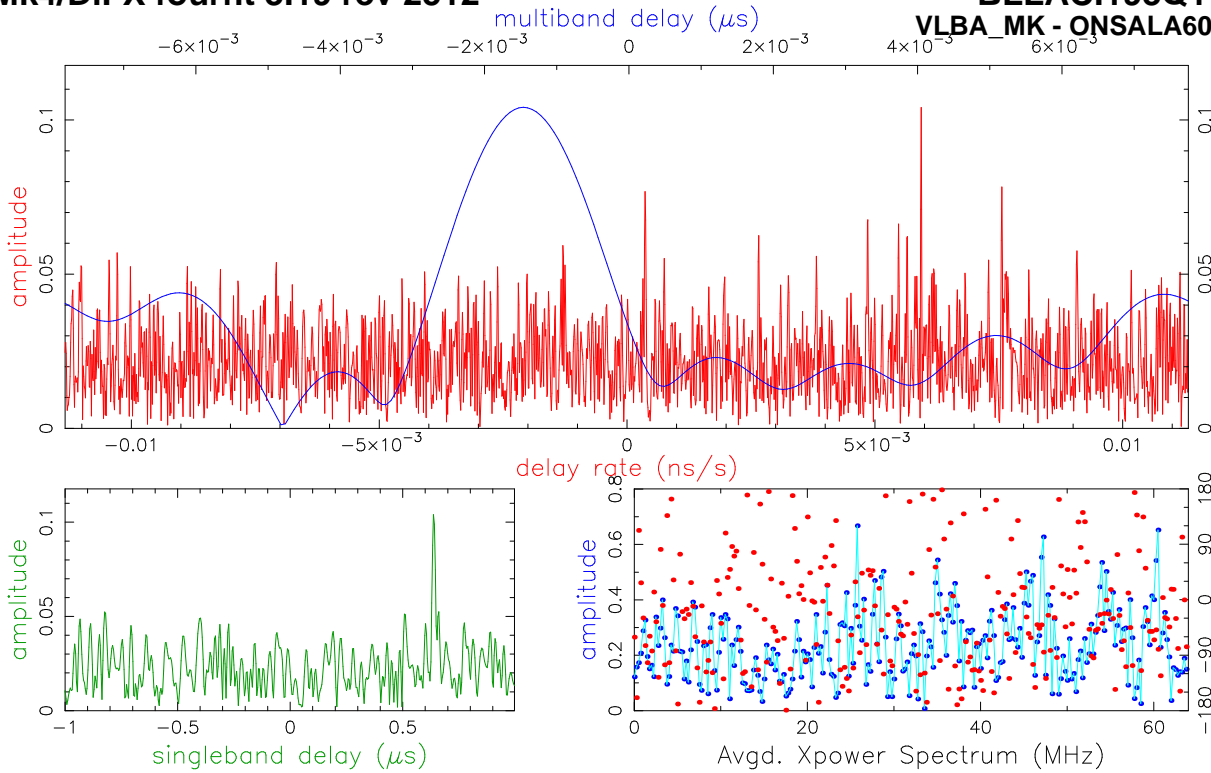
Fringe quality 9
SNR 9.0
Int time 436.236
Amp 0.158
Phase 48.5
PFD 8.2e-11
Delays (us)
SBD 0.023222
MBD 0.000836
Fringe rate (Hz)
-0.002019
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121405
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



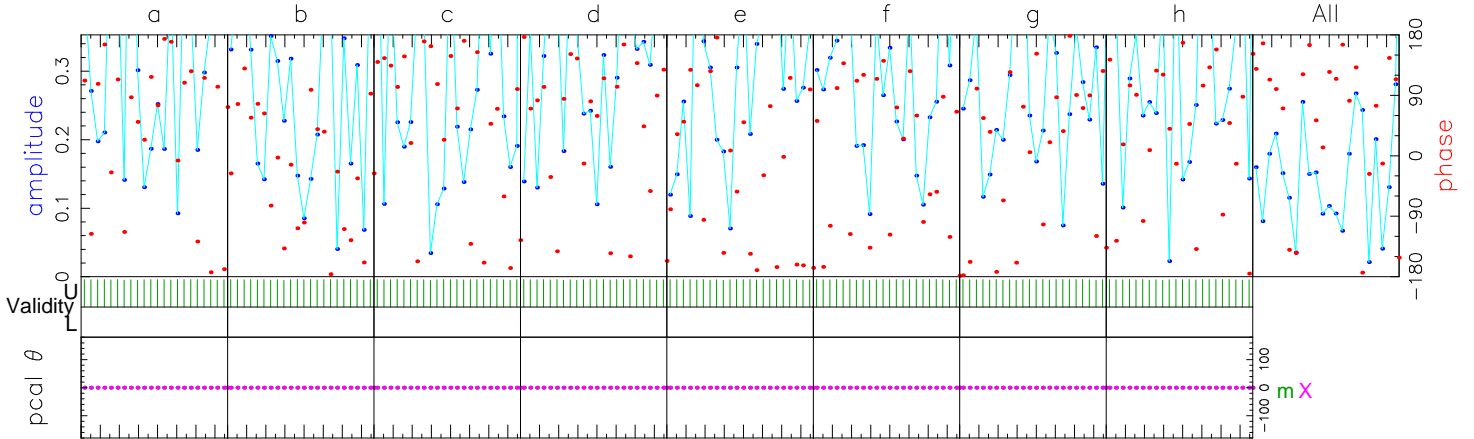
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	43.6	13.4	101.7	33.3	111.2	44.6	42.7	-23.9	Phase	48.5
	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1	Ampl.	0.2
	262.2	262.8	262.5	261.5	262.5	262.5	262.2	479.6	Sbd box	262.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.80010765196E+03		Apriori delay (usec)		6.80009119111E+03		Resid mbdelay (usec)		8.35853E-04	+/- 1.2E-04
Sband delay (usec)	6.80011441261E+03		Apriori clock (usec)		-3.2660164E+01		Resid sbdelay (usec)		2.32215E-02	+/- 9.6E-04
Phase delay (usec)	6.80009119267E+03		Apriori clockrate (us/s)		-3.7000025E-08		Resid phdelay (usec)		1.56489E-06	+/- 4.1E-07
Delay rate (us/s)	1.34394100923E+00		Apriori rate (us/s)		1.34394103267E+00		Resid rate (us/s)		-2.34341E-08	+/- 1.6E-09
Total phase (deg)			Apriori accel (us/s/s)		-7.46020810614E-05		Resid phase (deg)		48.5	+/- 12.7

ph/seg (deg) 42.5 30.5 Search (2048X32) 0.156 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 59.3 53.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 47.5 18.0 Inc. seg. avg. 0.173 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 41.6 31.4 Inc. frq. avg. 0.185 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
m: az 49.9 el 43.0 pa -102.5 X: az 315.2 el 22.4 pa 30.7 u,v (fr/asec) -10587.650 -8480.802 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/mX..193Q1T Output file: /Exps/c201d/v1/1234/No0048/mX.W.190.193Q1T simultaneous interpolator



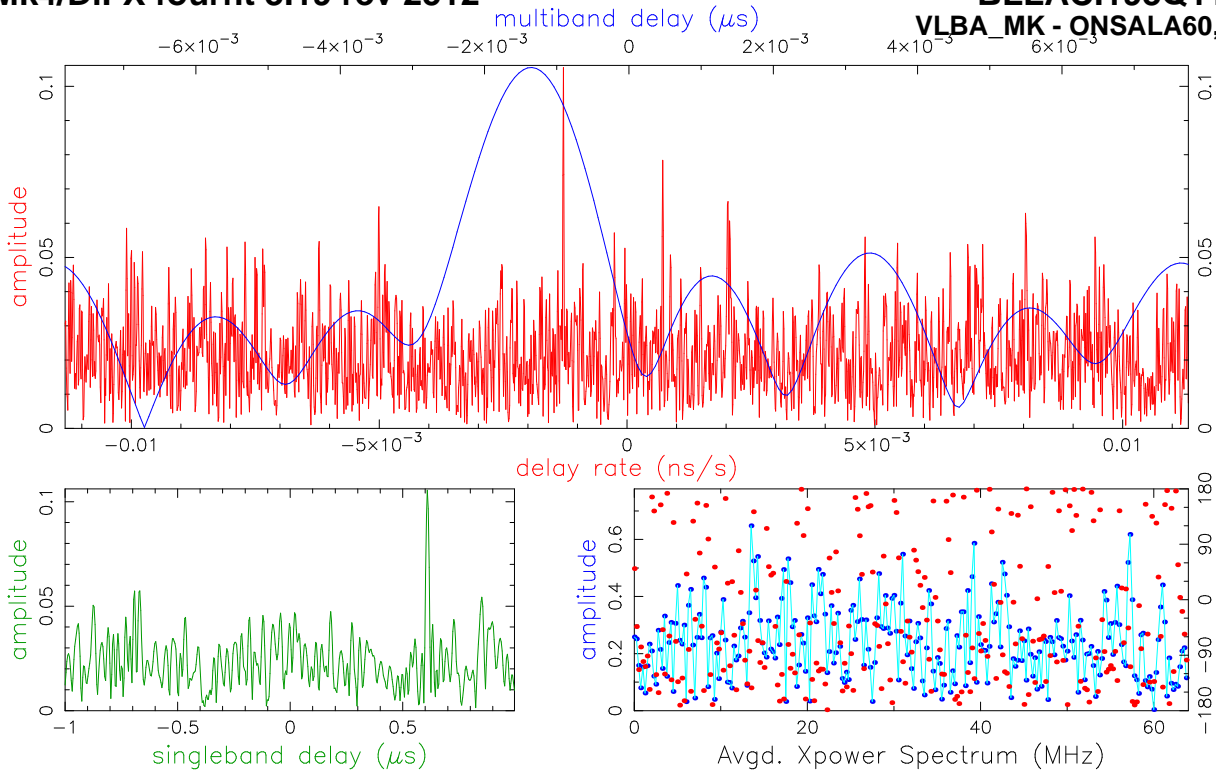
Fringe quality 0
SNR 6.0
Int time 436.237
Amp 0.118
Phase 119.3
PFD 4.2e-01
Delays (us)
SBD 0.637761
MBD -0.001423
Fringe rate (Hz)
0.512138
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121409
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	121.2	35.8	140.5	123.2	127.8	122.5	113.6	105.9	Phase	119.3
	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	Ampl.	0.1
	419.2	476.9	206.4	337.2	499.6	209.6	454.8	45.8	Sbd box	420.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.80073039357E+03		Apriori delay (usec)		6.80009119111E+03		Resid mbdelay (usec)		-1.42254E-03	+/- 1.8E-04
Sband delay (usec)	6.80072895211E+03		Apriori clock (usec)		-3.2660164E+01		Resid sbdelay (usec)		6.37761E-01	+/- 1.4E-03
Phase delay (usec)	6.80009119495E+03		Apriori clockrate (us/s)		-3.7000025E-08		Resid phdelay (usec)		3.84717E-06	+/- 6.2E-07
Delay rate (us/s)	1.34394697808E+00		Apriori rate (us/s)		1.34394103267E+00		Resid rate (us/s)		5.94541E-06	+/- 2.4E-09
Total phase (deg)	192.0		Apriori accel (us/s/s)		-7.46020810614E-05		Resid phase (deg)		119.3	+/- 19.1

ph/seg (deg) 64.7 45.9 Amplitude 0.118 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 82.3 80.1 Interp. 0.102 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 35.9 27.1 Inc. seg. avg. 0.124 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 38.7 47.2 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
m: az 49.9 el 43.0 pa -102.5 X: az 315.2 el 22.4 pa 30.7 u,v (fr/asec) -10587.650 -8480.802 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/mX..193Q1T Output file: /Exps/c201d/v1/1234/No0048/mX.W.210.193Q1T simultaneous interpolator

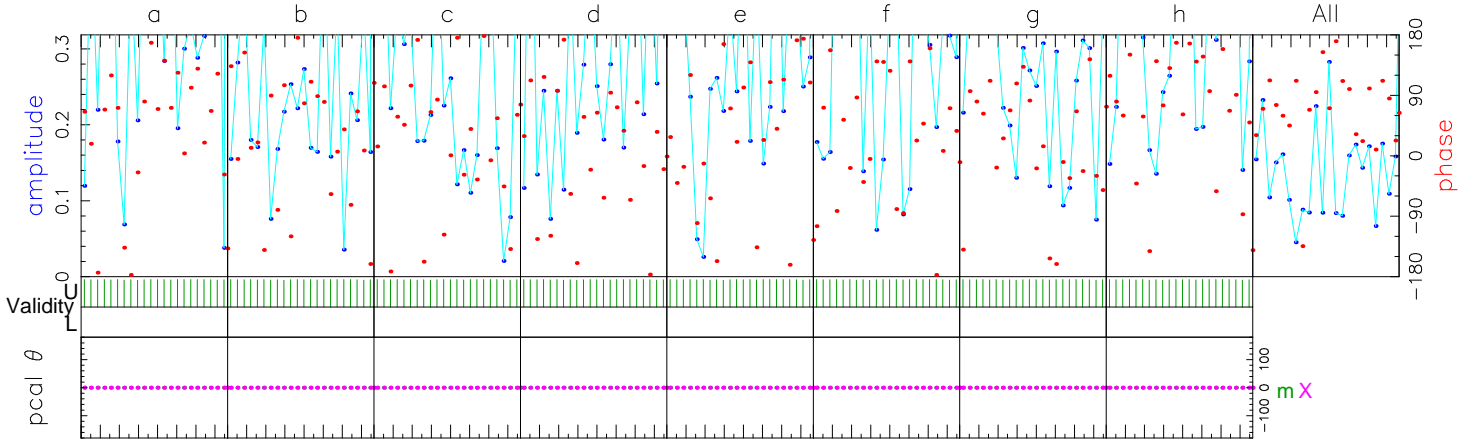


Fringe quality 0

SNR 6.0
Int time 436.236
Amp 0.106
Phase 75.3
PFD 3.5e-01
Delays (us)
SBD 0.609688
MBD -0.001337
Fringe rate (Hz)
-0.110794
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

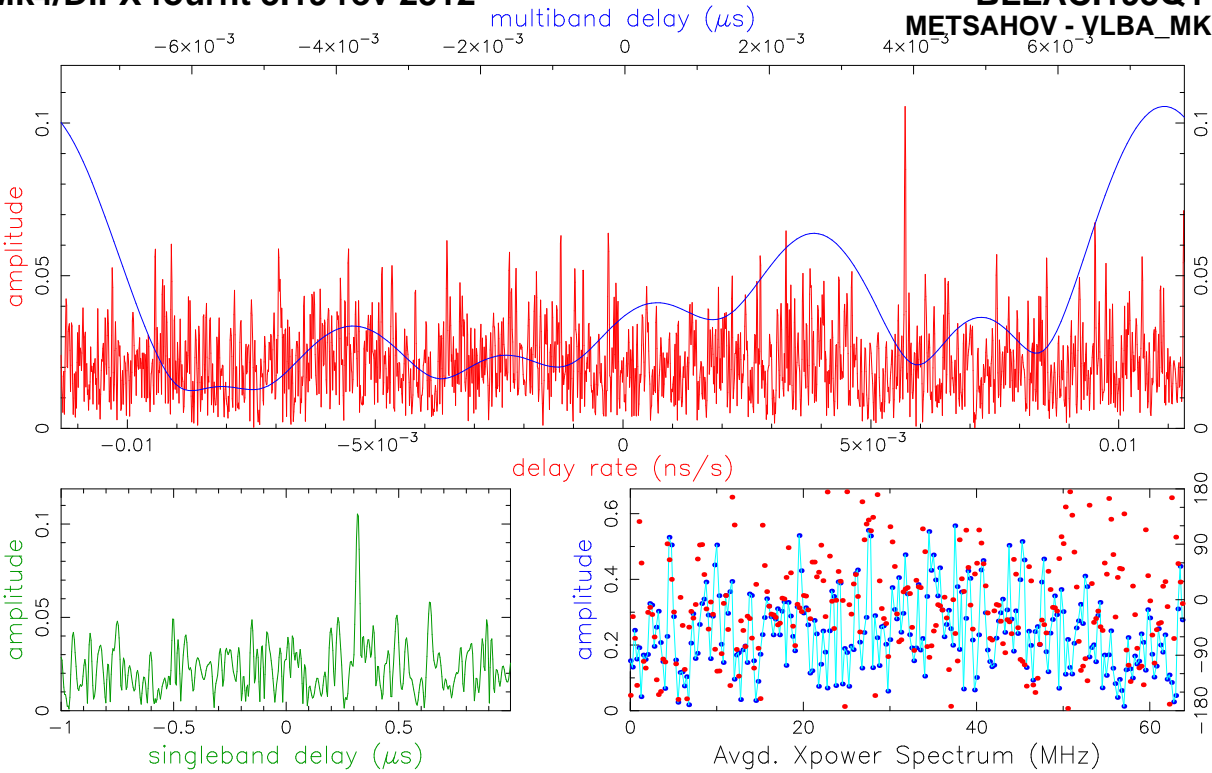
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 144500.00
Stop 145219.81
FRT 144840.00
Corr/FF/build
2020:204:084124
2020:204:121413
2020:014:135814
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



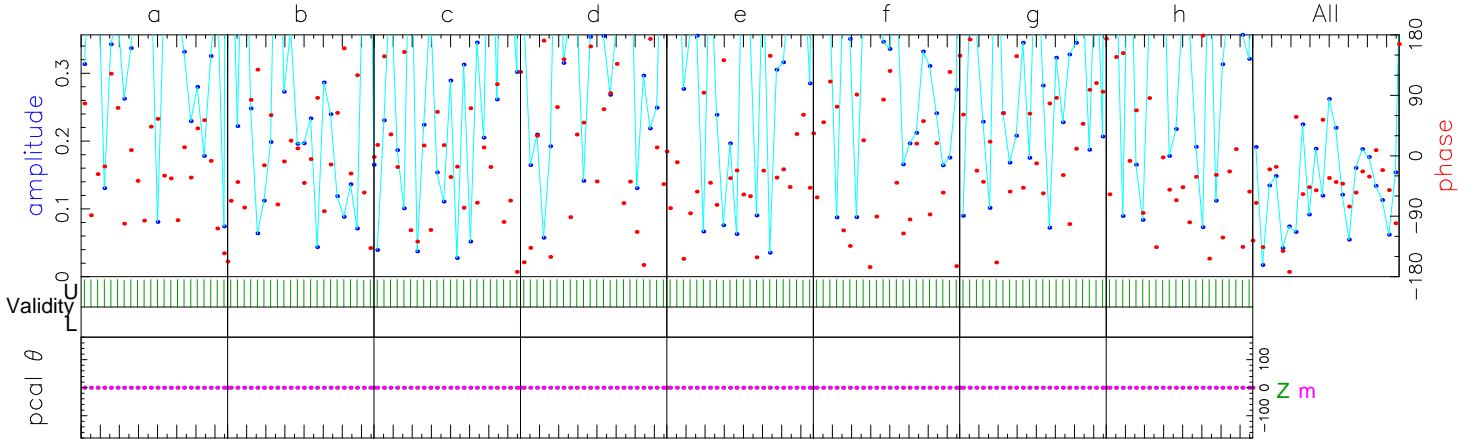
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
m	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
m:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
m:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
m	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	6.80069922902E+03		Apriori delay (usec)		6.80009119111E+03		Resid mbdelay (usec)		-1.33708E-03	+/- 1.8E-04
Sband delay (usec)	6.80070087861E+03		Apriori clock (usec)		-3.2660164E+01		Resid sbdelay (usec)		6.09688E-01	+/- 1.4E-03
Phase delay (usec)	6.80009119353E+03		Apriori clockrate (us/s)		-3.7000025E-08		Resid phdelay (usec)		2.42792E-06	+/- 6.1E-07
Delay rate (us/s)	1.34393974646E+00		Apriori rate (us/s)		1.34394103267E+00		Resid rate (us/s)		-1.28620E-06	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		-7.46020810614E-05		Resid phase (deg)		75.3	+/- 19.0

ph/seg (deg) 52.2 45.6 Search (2048X32) 0.103 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 63.7 79.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.4 26.9 Inc. seg. avg. 0.106 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 46.1 46.9 Inc. frq. avg. 0.103 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 m: az 49.9 el 43.0 pa -102.5 X: az 315.2 el 22.4 pa 30.7 u,v (fr/asec) -10587.650 -8480.802 ion window (TEC) 0.00 0.00
 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/mX..193Q1T Output file: /Exps/c201d/v1/1234/No0048/mX.W.228.193Q1T



Fringe quality 0
 SNR 6.1
 Int time 436.022
 Amp 0.119
 Phase -40.1
 PFD 2.4e-01
 Delays (us)
 SBD 0.318089
 MBD 0.007509
 Fringe rate (Hz)
 0.490853
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 144500.00
 Stop 145219.81
 FRT 144840.00
 Corr/FF/build
 2020:204:084124
 2020:204:121415
 2020:014:135814
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

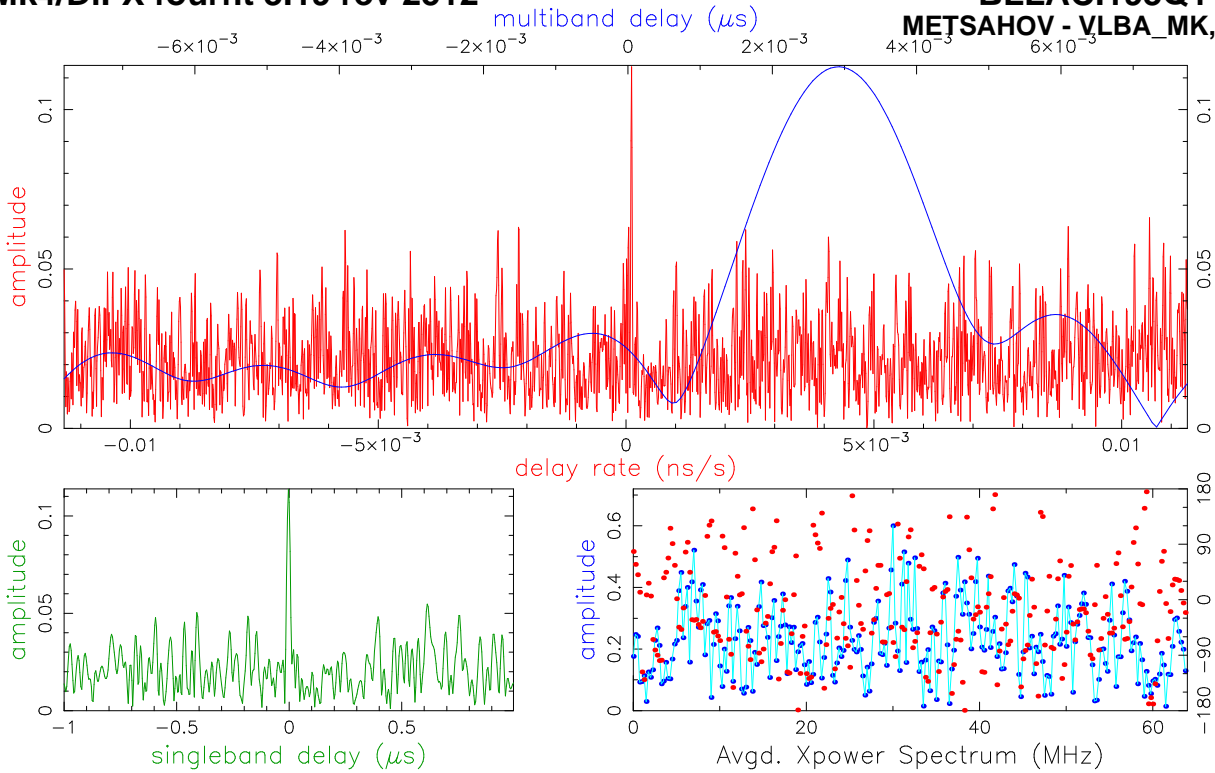
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-25.3	-47.2	-58.2	-18.8	-39.6	-80.7	25.6	-57.2	Phase	-40.1
	0.2	0.2	0.1	0.0	0.2	0.0	0.1	0.1	Ampl.	0.1
	335.8	61.5	279.0	452.8	337.4	254.2	153.5	282.0	Sbd box	338.4
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

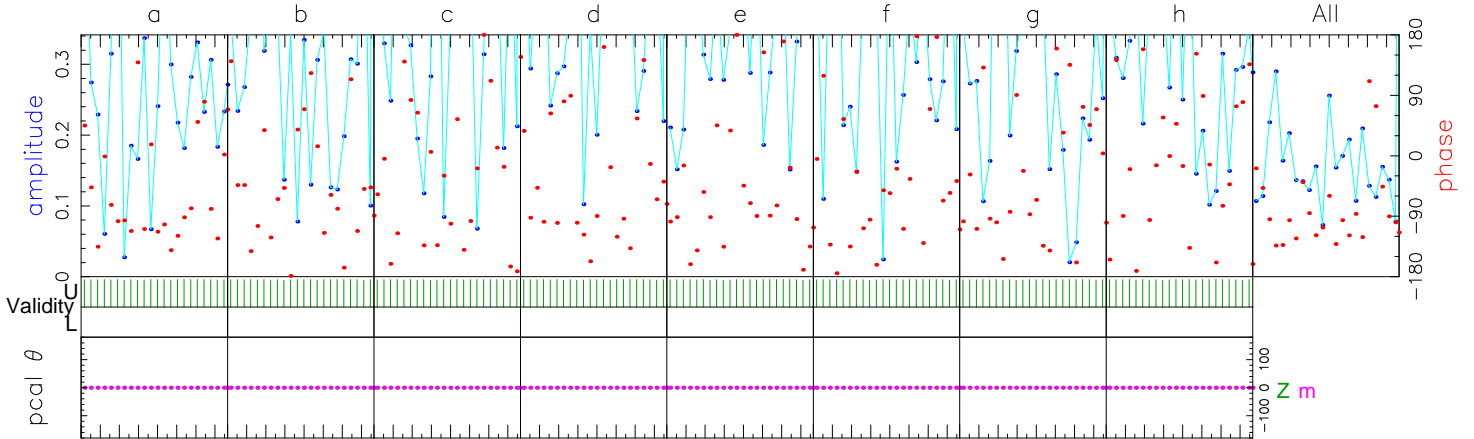
Group delay (usec)(sbd)	-7.53492612903E+03	Apriori delay (usec)	-7.53524613787E+03	Resid mbdelay (usec)	7.50885E-03	+/-	1.8E-04
Sband delay (usec)	-7.53492804912E+03	Apriori clock (usec)	-8.2786665E+00	Resid sbdelay (usec)	3.18089E-01	+/-	1.4E-03
Phase delay (usec)	-7.53524613916E+03	Apriori clockrate (us/s)	-4.7499998E-07	Resid phdelay (usec)	-1.29171E-06	+/-	6.1E-07
Delay rate (us/s)	-1.22982753776E+00	Apriori rate (us/s)	-1.22983323608E+00	Resid rate (us/s)	5.69831E-06	+/-	2.4E-09
Total phase (deg)	-153.9	Apriori accel (us/s/s)	8.02397332207E-05	Resid phase (deg)	-40.1	+/-	18.8

ph/seg (deg)	55.1	Theor.	45.0	Amplitude	0.119 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	65.0	Search (2048X32)	0.102	Search	0.102	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	34.9	Inc. seg. avg.	0.114	Inc. seg. avg.	0.114	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	60.1	Inc. frq. avg.	0.114	Inc. frq. avg.	0.114	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011 0.011	
Z: az 323.2 el 20.3 pa 26.2		m: az 49.9 el 43.0 pa -102.5		u,v (fr/asec)	9716.302 9065.447	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00



Fringe quality 0
 SNR 6.5
 Int time 436.022
 Amp 0.114
 Phase -97.8
 PFD 2.2e-02
 Delays (us)
 SBD -0.003128
 MBD 0.002926
 Fringe rate (Hz) 0.009950
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 144500.00
 Stop 145219.81
 FRT 144840.00
 Corr/FF/build
 2020:204:084124
 2020:204:121419
 2020:014:135814
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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

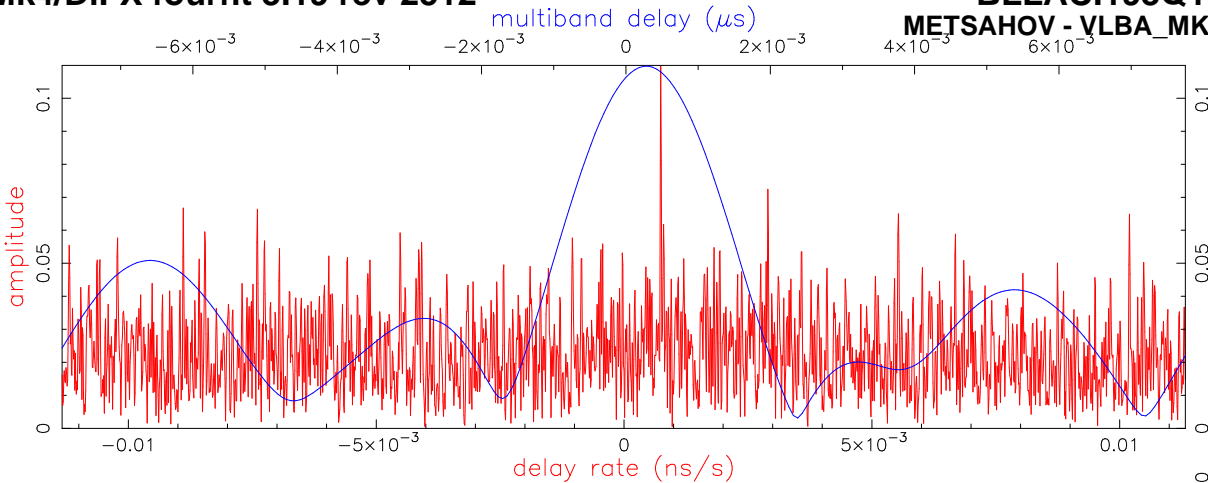


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-86.3	-91.9	-129.0	-83.8	-113.1	-99.0	-92.1	3.8	Phase	-97.8
	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.0	Ampl.	0.1
	304.0	210.3	449.2	360.8	255.6	460.6	258.1	184.8	Sbd box	256.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

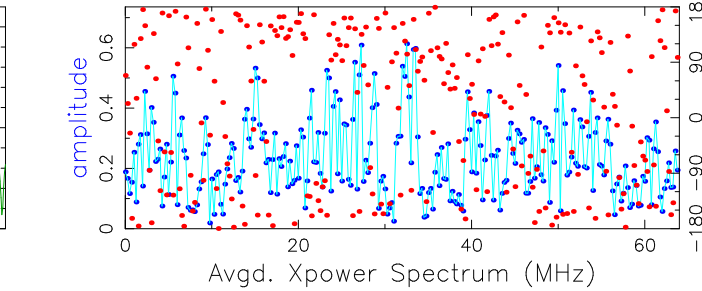
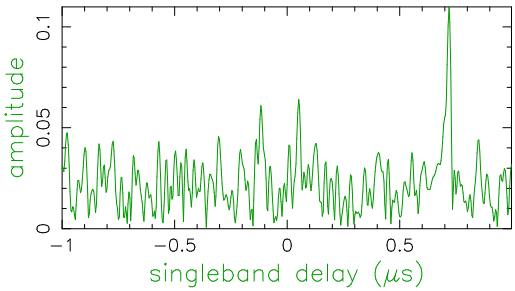
Group delay (usec)(sbd)	-7.53524321192E+03	Apriori delay (usec)	-7.53524613787E+03	Resid mbdelay (usec)	2.92595E-03	+/-	1.7E-04
Sband delay (usec)	-7.53524926637E+03	Apriori clock (usec)	-8.2786665E+00	Resid sbdelay (usec)	-3.12850E-03	+/-	1.3E-03
Phase delay (usec)	-7.53524614102E+03	Apriori clockrate (us/s)	-4.7499998E-07	Resid phdelay (usec)	-3.15299E-06	+/-	5.7E-07
Delay rate (us/s)	-1.22983312057E+00	Apriori rate (us/s)	-1.22983323608E+00	Resid rate (us/s)	1.15510E-07	+/-	2.2E-09
Total phase (deg)	-211.6	Apriori accel (us/s/s)	8.02397332207E-05	Resid phase (deg)	-97.8	+/-	17.6

ph/seg (deg)	58.4	Theor.	42.3	Amplitude	0.114 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	64.0		73.7	Search (2048X32)	0.109	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	44.6		24.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	42.5		43.5	Inc. seg. avg.	0.123	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.109	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

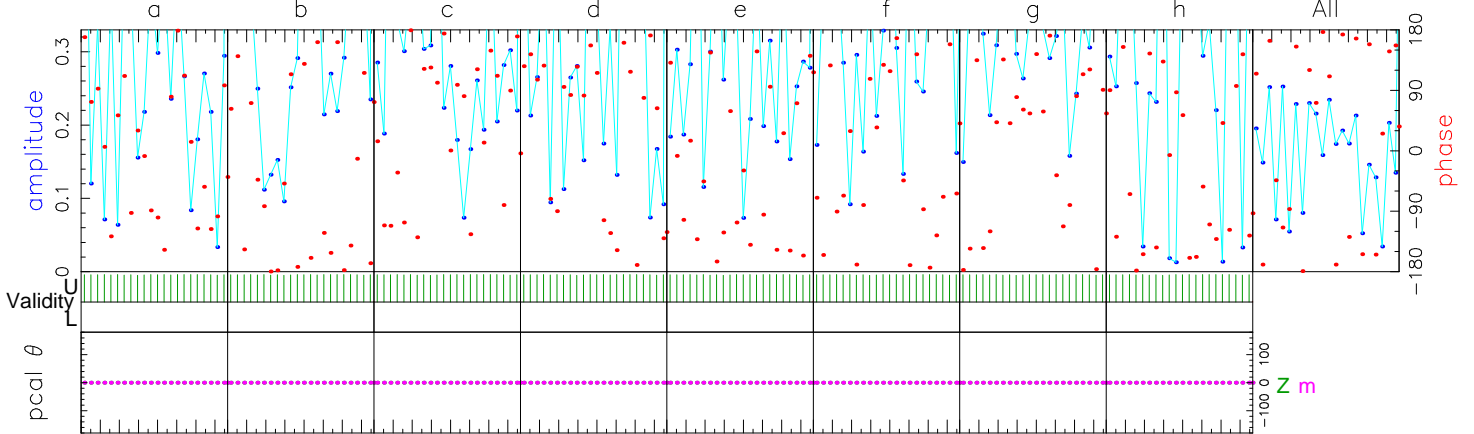
Z: az 323.2 el 20.3 pa 26.2 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 9716.302 9065.447 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/Zm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/Zm.W.247.193Q1T



Fringe quality 0
 SNR 6.3
 Int time 436.022
 Amp 0.110
 Phase 164.0
 PFD 9.5e-02
 Delays (us)
 SBD 0.719056
 MBD 0.000286
 Fringe rate (Hz)
 0.064120
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 144500.00
 Stop 145219.81
 FRT 144840.00
 Corr/FF/build
 2020:204:084124
 2020:204:121423
 2020:014:135814
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"



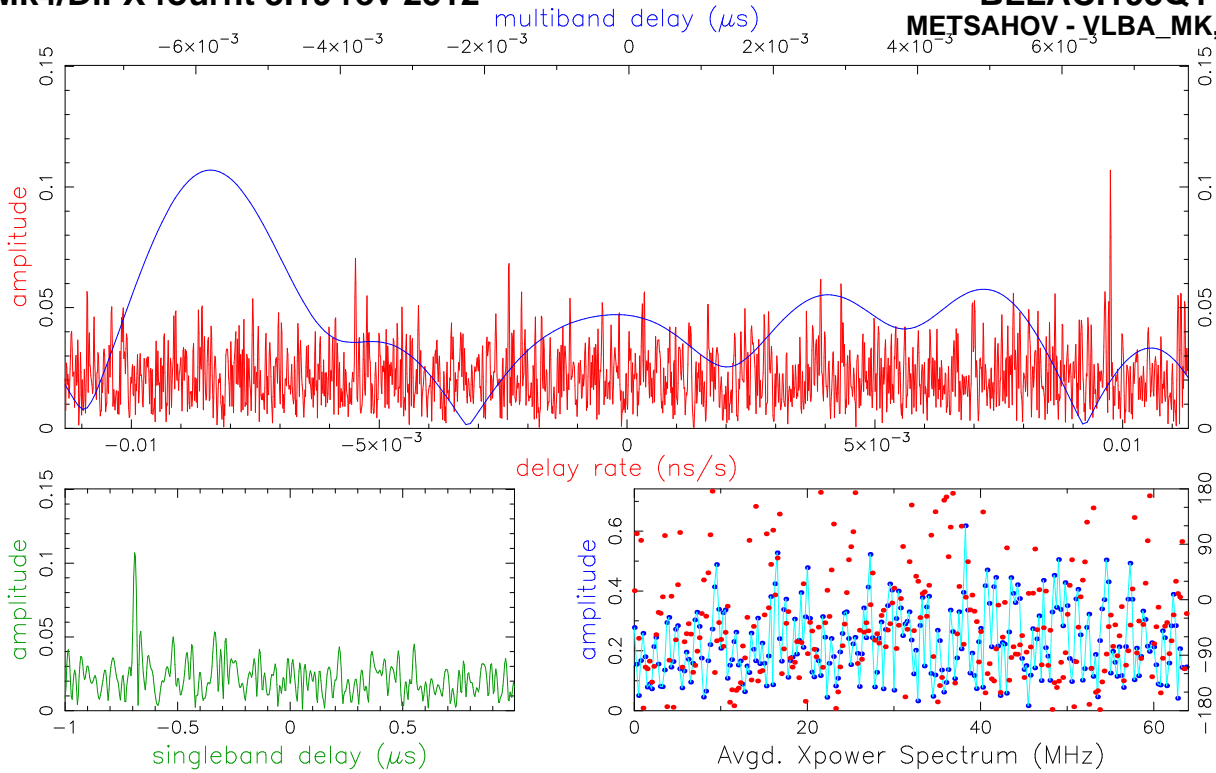
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



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

Group delay (usec)(sbd)	-7.53452710206E+03	Apriori delay (usec)	-7.53524613787E+03	Resid mbdelay (usec)	2.85812E-04	+/-	1.7E-04
Sband delay (usec)	-7.53452708212E+03	Apriori clock (usec)	-8.2786665E+00	Resid sbdelay (usec)	7.19056E-01	+/-	1.4E-03
Phase delay (usec)	-7.53524613258E+03	Apriori clockrate (us/s)	-4.7499998E-07	Resid phdelay (usec)	5.28899E-06	+/-	5.9E-07
Delay rate (us/s)	-1.22983249171E+00	Apriori rate (us/s)	-1.22983323608E+00	Resid rate (us/s)	7.44367E-07	+/-	2.3E-09
Total phase (deg)	50.2	Apriori accel (us/s/s)	8.02397332207E-05	Resid phase (deg)	164.0	+/-	18.3

ph/seg (deg)	63.2	Theor.	43.8	Search (2048X32)	0.106	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	78.2	Amplitude	0.110 +/- 0.018	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	29.1	Inc. seg. avg.	0.126	Inc. frq. avg.	0.110	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	39.9	Inc. frq. avg.	0.110			Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

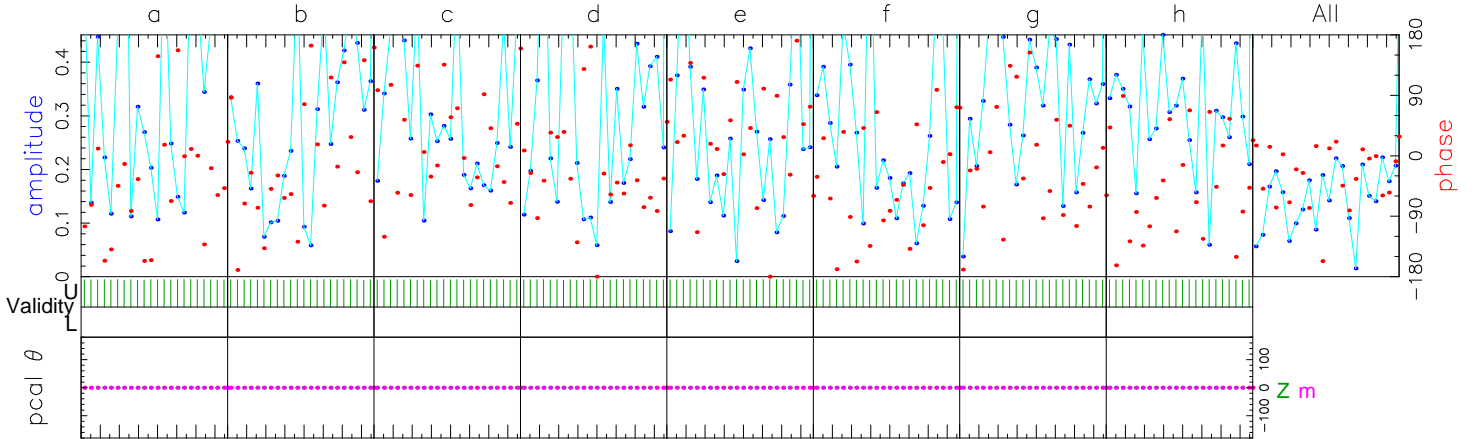


Fringe quality 0

SNR 6.2
 Int time 436.022
 Amp 0.150
 Phase -26.7
 PFD 1.4e-01
 Delays (us)
 SBD -0.689892
 MBD -0.005756
 Fringe rate (Hz)
 0.841295
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 144500.00
 Stop 145219.81
 FRT 144840.00
 Corr/FF/build
 2020:204:084124
 2020:204:121426
 2020:014:135814
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-36.0	-50.9	19.1	-37.1	52.0	-50.0	-16.5	-73.2	Phase	-26.7
	0.3	0.1	0.2	0.3	0.1	0.1	0.2	0.1	Ampl.	0.2
	80.6	202.0	357.0	80.0	117.3	371.7	477.7	397.5	Sbd box	80.4
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-7.53593939355E+03	Apriori delay (usec)	-7.53524613787E+03	Resid mbdelay (usec)	-5.75568E-03	+/-	1.8E-04
Sband delay (usec)	-7.53593603037E+03	Apriori clock (usec)	-8.2786665E+00	Resid sbdelay (usec)	-6.89892E-01	+/-	1.4E-03
Phase delay (usec)	-7.53524613873E+03	Apriori clockrate (us/s)	-4.7499998E-07	Resid phdelay (usec)	-8.60963E-07	+/-	6.0E-07
Delay rate (us/s)	-1.22982346948E+00	Apriori rate (us/s)	-1.22983323608E+00	Resid rate (us/s)	9.76660E-06	+/-	2.3E-09
Total phase (deg)	-140.5	Apriori accel (us/s/s)	8.02397332207E-05	Resid phase (deg)	-26.7	+/-	18.5

ph/seg (deg)	43.8	Theor.	44.3	Amplitude	0.150 +/- 0.024	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	64.9		77.4	Search (2048X32)	0.103	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	44.5		26.2	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	53.0		45.7	Inc. seg. avg.	0.156	Sample rate (MSamp/s):	128		dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.161	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

Z: az 323.2 el 20.3 pa 26.2 m: az 49.9 el 43.0 pa -102.5 u,v (fr/asec) 9716.302 9065.447 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0048/Zm..193Q1T Output file: /Exps/c201d/v1/1234/No0048/Zm.W.259.193Q1T