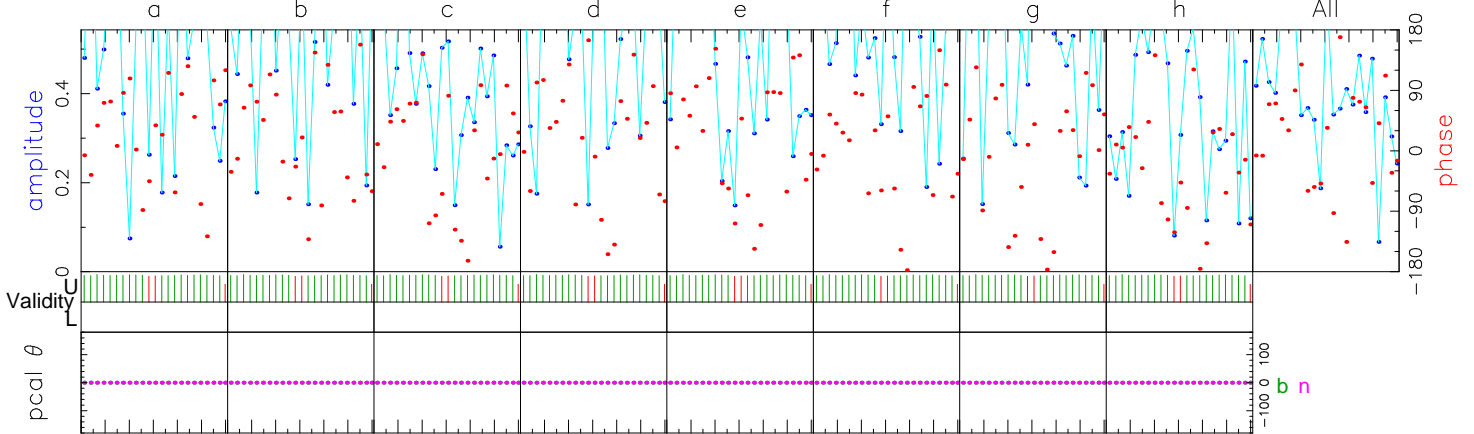


Fringe quality 9

SNR 9.2
Int time 348.662
Amp 0.181
Phase 35.6
PFD 9.1e-12
Delays (us)
SBD 0.005391
MBD 0.004675
Fringe rate (Hz) -0.004988
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122442
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

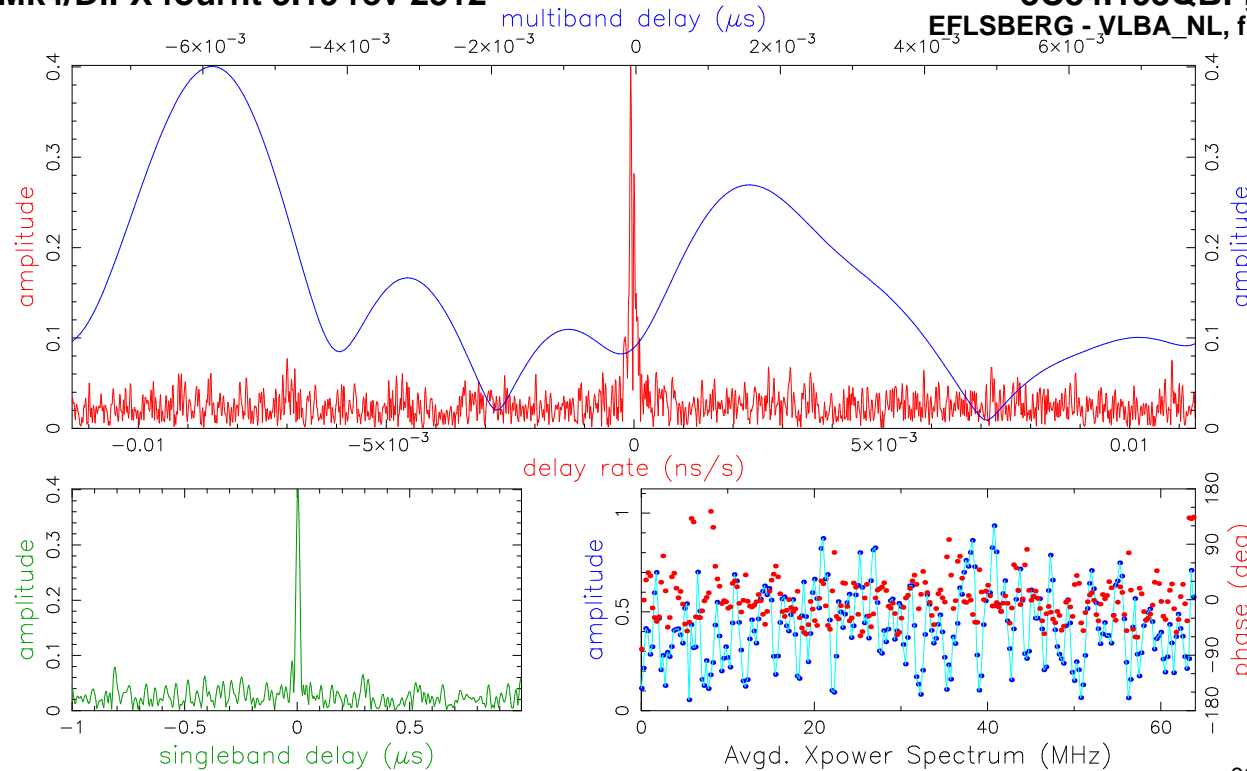
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:n	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-3.72806842689E+03									
Sband delay (usec)	-3.72806771107E+03									
Phase delay (usec)	-3.72807310042E+03									
Delay rate (us/s)	2.10576647266E-01									
Total phase (deg)			-313.1							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

b: az 75.0 el 47.2 pa -59.5 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1581.574 2311.046 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bn..193QBF Output file: /Exps/c201d/v1/1234/No0057/bn.W.10.193QBF

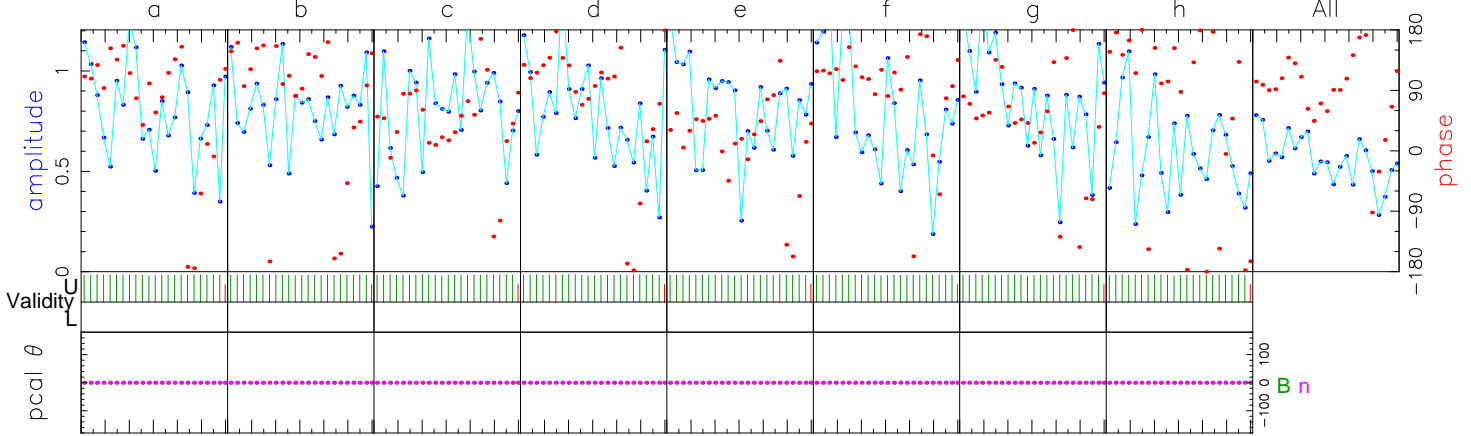


Fringe quality 8

SNR 20.6
Int time 353.434
Amp 0.402
Phase 100.5
PFD 0.0e+00
Delays (us)
SBD 0.003161
MBD -0.005901
Fringe rate (Hz)
-0.005331
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122442
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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

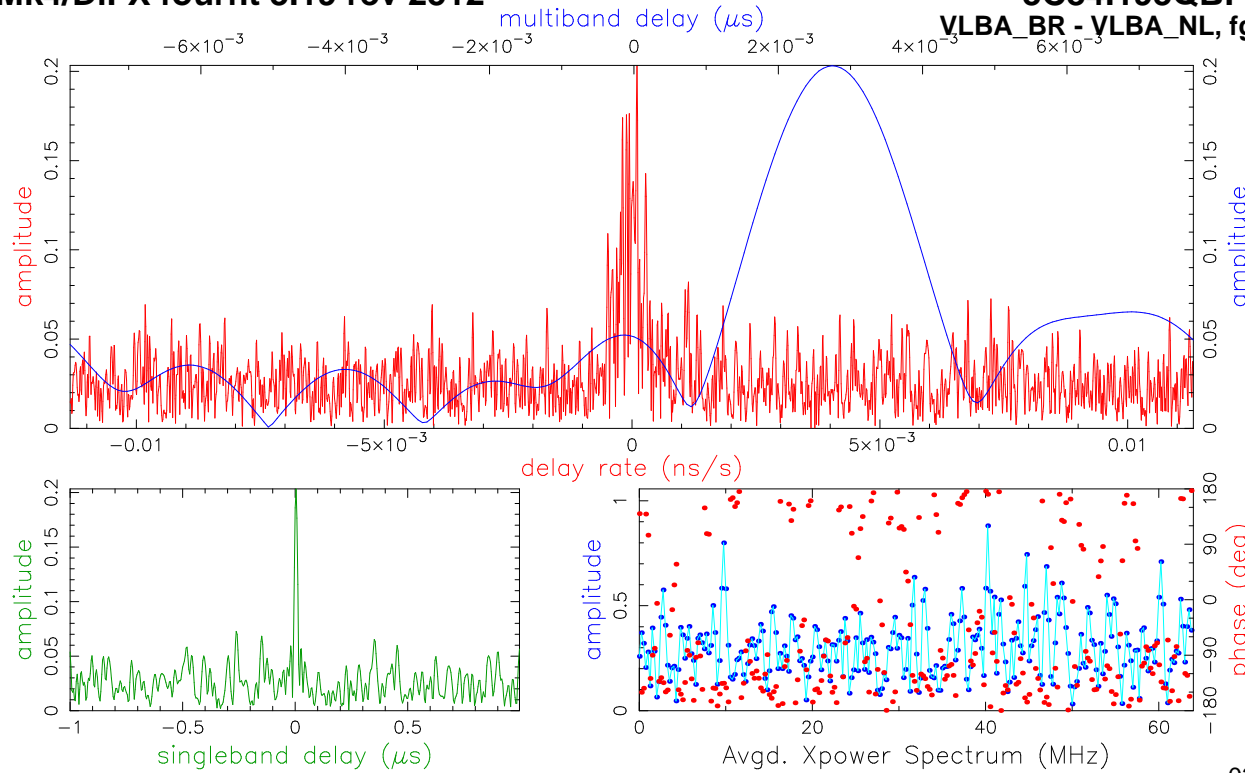


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	111.2	128.9	50.0	121.4	28.5	120.2	69.6	158.8	Phase	100.5
B	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.4	Ampl.	0.5
n	258.1	257.8	257.9	258.4	258.4	258.5	258.1	258.6	Sbd box	257.8
B	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.43150727310E+03		Apriori delay (usec)		-4.43151699672E+03		Resid mbdelay (usec)		-5.90138E-03	+/- 5.3E-05
Sband delay (usec)	-4.43151383547E+03		Apriori clock (usec)		-1.9300268E+01		Resid sbdelay (usec)		3.16125E-03	+/- 4.2E-04
Phase delay (usec)	-4.43151699348E+03		Apriori clockrate (us/s)		-5.3399998E-07		Resid phdelay (usec)		3.24199E-06	+/- 1.8E-07
Delay rate (us/s)	-1.14064325534E+00		Apriori rate (us/s)		-1.14064319346E+00		Resid rate (us/s)		-6.18847E-08	+/- 8.6E-10
Total phase (deg)	65.3		Apriori accel (us/s/s)		3.13911090119E-05		Resid phase (deg)		100.5	+/- 5.6

	RMS	Theor.	Amplitude	0.402 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	57.9	13.3	Search (2048X32)	0.389	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	50.1	23.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	48.0	7.8	Inc. seg. avg.	0.549	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	32.3	13.7	Inc. frq. avg.	0.514	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

B: az 284.8 el 45.4 pa 55.3 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) 8770.374 2829.991 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Bn..193QBF Output file: /Exps/c201d/v1/1234/No0057/Bn.W.11.193QBF

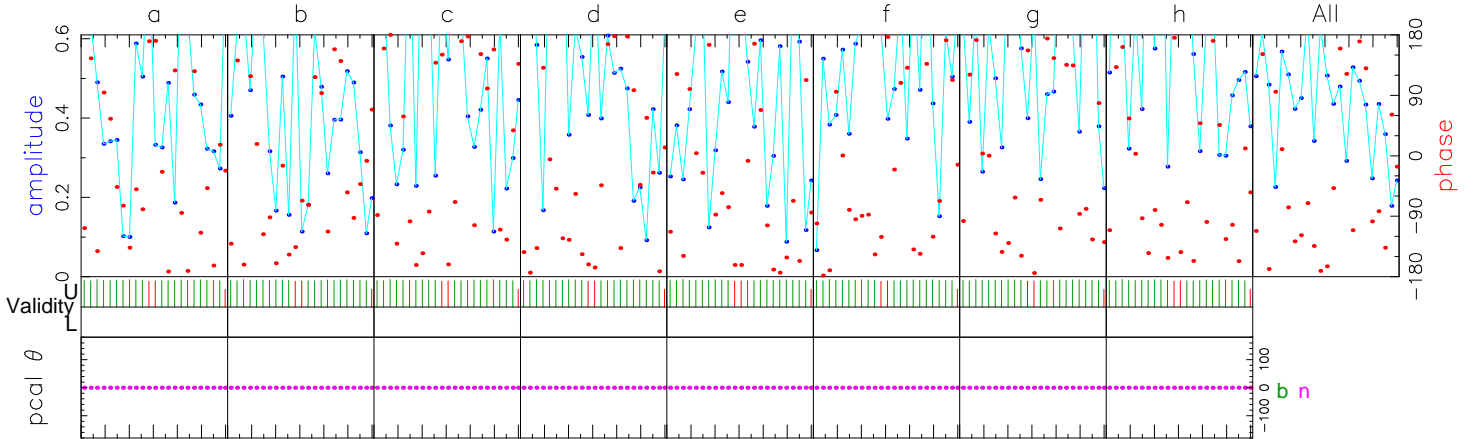


Fringe quality 9

SNR 10.4
Int time 348.662
Amp 0.203
Phase -137.4
PFD 1.3e-16
Delays (us)
SBD 0.003479
MBD 0.002736
Fringe rate (Hz) 0.008650
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

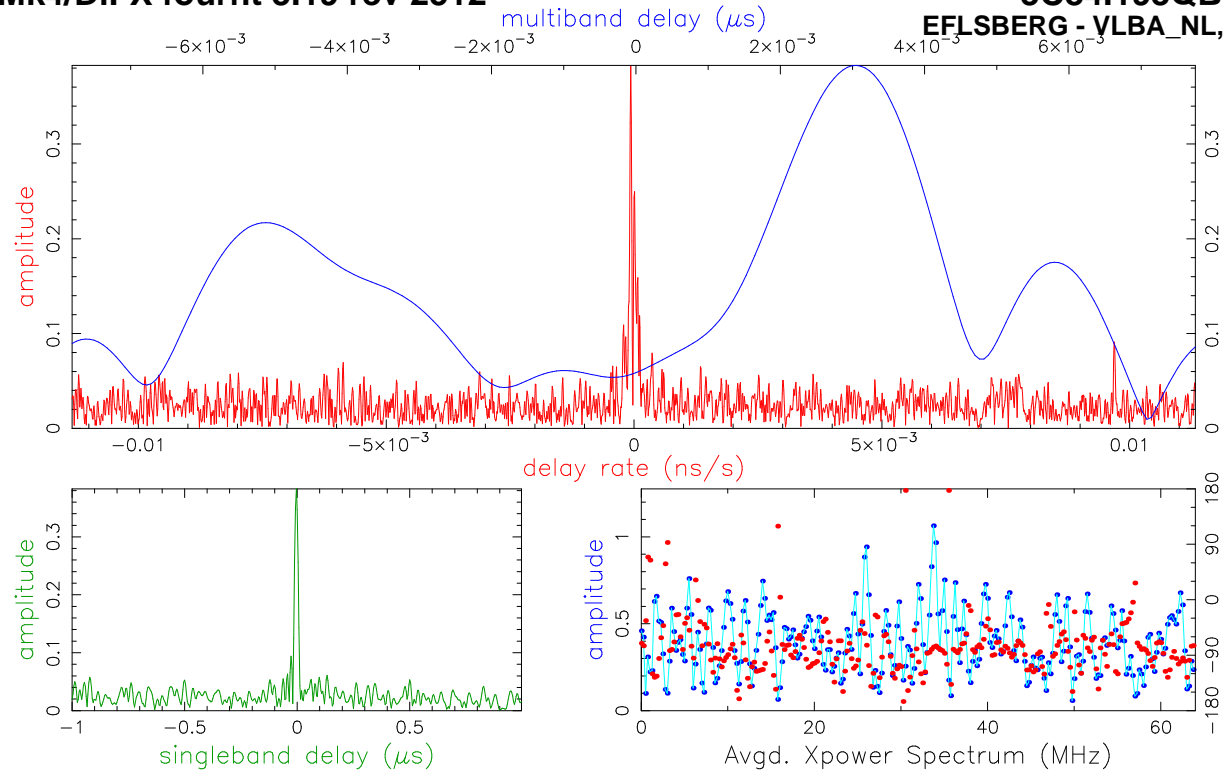
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122447
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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



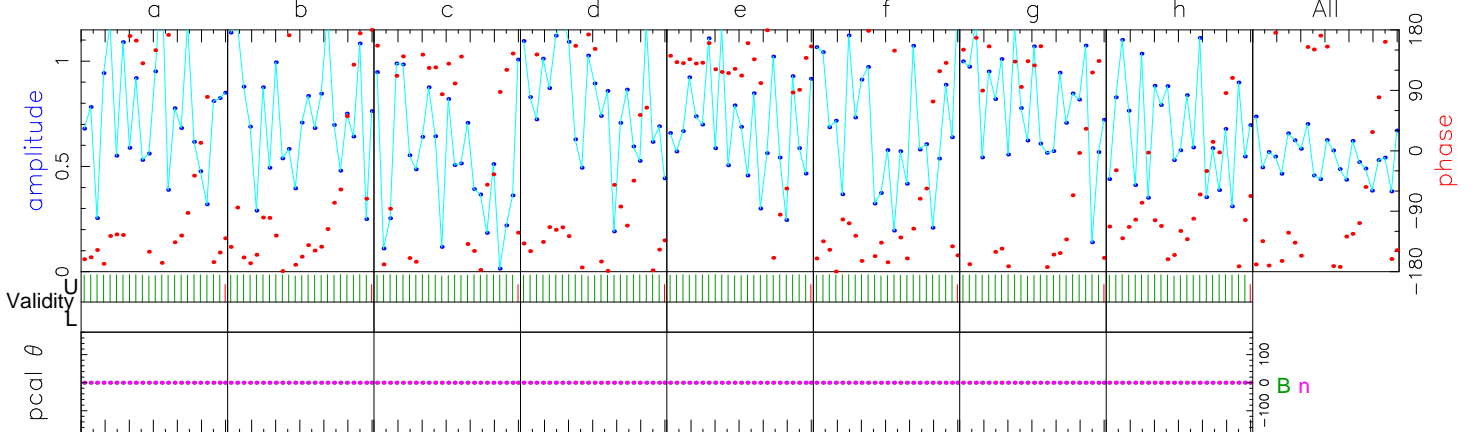
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-128.4	-145.4	-149.3	-129.2	-124.0	-149.9	-137.8	-132.0	Phase	-137.4
	0.1	0.1	0.3	0.3	0.1	0.2	0.3	0.3	Ampl.	0.2
	426.8	94.6	257.8	257.8	253.2	258.6	258.0	257.3	Sbd box	257.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.72807036606E+03		Apriori delay (usec)		-3.72807310157E+03		Resid mbdelay (usec)		2.73550E-03	+/- 1.0E-04
Sband delay (usec)	-3.72806962307E+03		Apriori clock (usec)		-3.3739948E+01		Resid sbdelay (usec)		3.47850E-03	+/- 8.3E-04
Phase delay (usec)	-3.72807310600E+03		Apriori clockrate (us/s)		-3.7599999E-07		Resid phdelay (usec)		-4.43191E-06	+/- 3.6E-07
Delay rate (us/s)	2.10576805588E-01		Apriori rate (us/s)		2.10576705169E-01		Resid rate (us/s)		1.00419E-07	+/- 1.7E-09
Total phase (deg)			Apriori accel (us/s/s)		2.55301348569E-05		Resid phase (deg)		-137.4	+/- 11.0

ph/seg (deg) 75.5 26.5 Search (2048X32) 0.203 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 132.6 46.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 10.9 15.6 Inc. seg. avg. 0.398 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 33.6 27.2 Inc. frq. avg. 0.198 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 75.0 el 47.2 pa -59.5 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1581.574 2311.046 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bn..193QBF Output file: /Exps/c201d/v1/1234/No0057/bn.W.32.193QBF



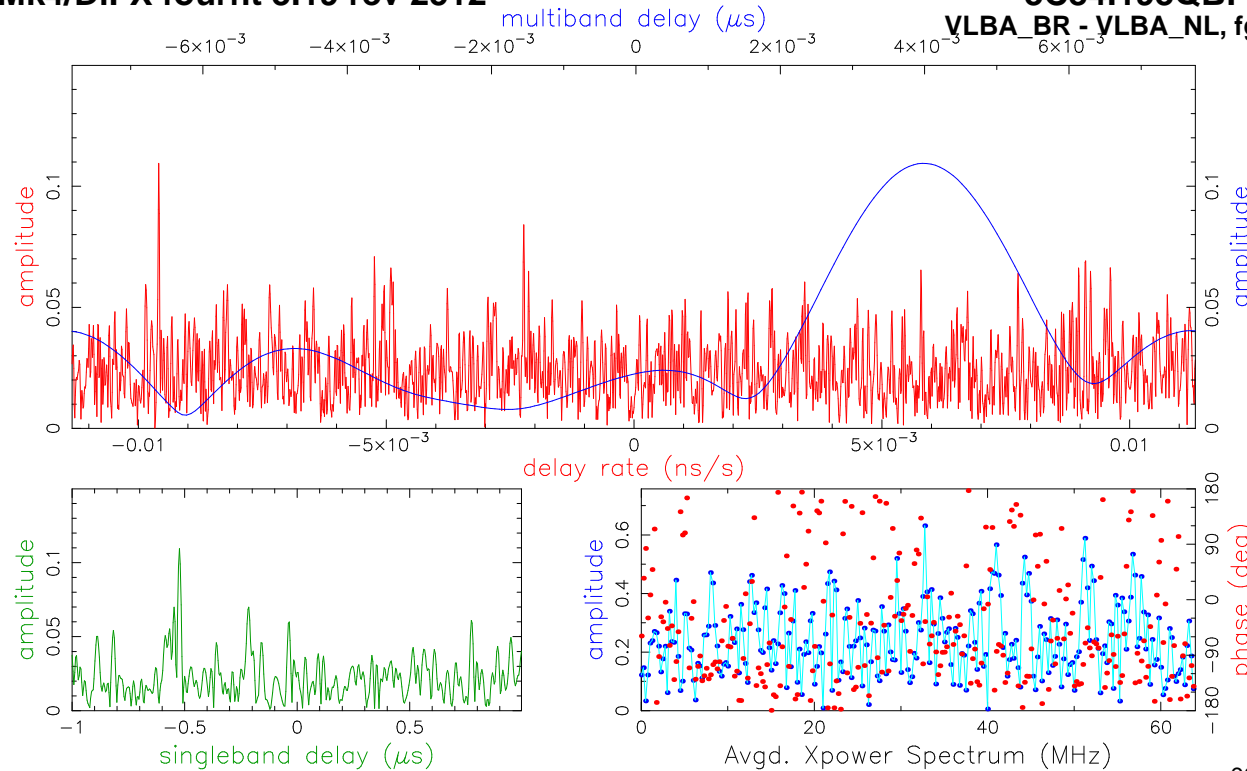
Fringe quality 8
SNR 19.7
Int time 353.433
Amp 0.383
Phase -163.7
PFD 0.0e+00
Delays (us)
SBD -0.003972
MBD 0.003043
Fringe rate (Hz)
-0.005527
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122447
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



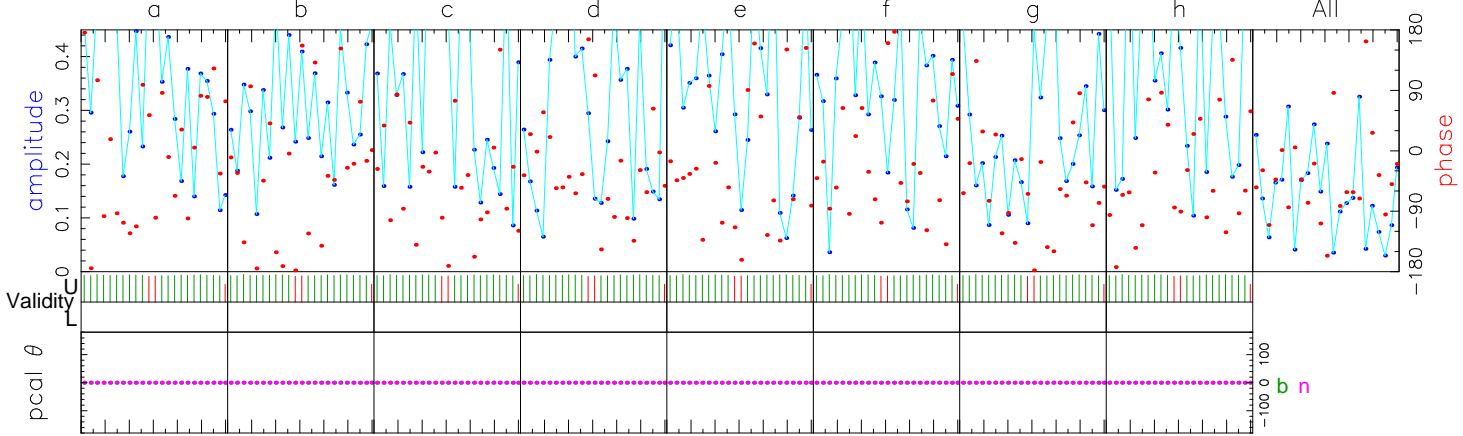
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-152.5	-140.1	154.5	-148.1	135.9	-147.9	165.8	-102.2	Phase	-163.7
	0.5	0.5	0.3	0.5	0.6	0.5	0.4	0.4	Ampl.	0.5
	256.3	256.1	256.7	256.4	256.3	256.5	257.2	257.2	Sbd box	256.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	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)	-4.43151395326E+03		Apriori delay (usec)		-4.43151699672E+03		Resid mbdelay (usec)		3.04347E-03	+/- 5.5E-05
Sband delay (usec)	-4.43152096872E+03		Apriori clock (usec)		-1.9300268E+01		Resid sbdelay (usec)		-3.97200E-03	+/- 4.4E-04
Phase delay (usec)	-4.43151700200E+03		Apriori clockrate (us/s)		-5.3399998E-07		Resid phdelay (usec)		-5.27753E-06	+/- 1.9E-07
Delay rate (us/s)	-1.14064325761E+00		Apriori rate (us/s)		-1.14064319346E+00		Resid rate (us/s)		-6.41585E-08	+/- 9.0E-10
Total phase (deg)			Apriori accel (us/s/s)		3.13911090119E-05		Resid phase (deg)		-163.7	+/- 5.8

ph/seg (deg) 56.4 14.0 Search (2048X32) 0.378 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 48.7 24.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 43.4 8.2 Inc. seg. avg. 0.528 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 30.2 14.4 Inc. frq. avg. 0.469 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
B: az 284.8 el 45.4 pa 55.3 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) 8770.374 2829.991 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Bn..193QBF Output file: /Exps/c201d/v1/1234/No0057/Bn.W.34.193QBF simultaneous interpolator



Fringe quality 0
SNR 5.6
Int time 348.662
Amp 0.150
Phase -57.6
PFD 1.0e+00
Delays (us)
SBD -0.523332
MBD 0.003992
Fringe rate (Hz)
-0.826787
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122451
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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

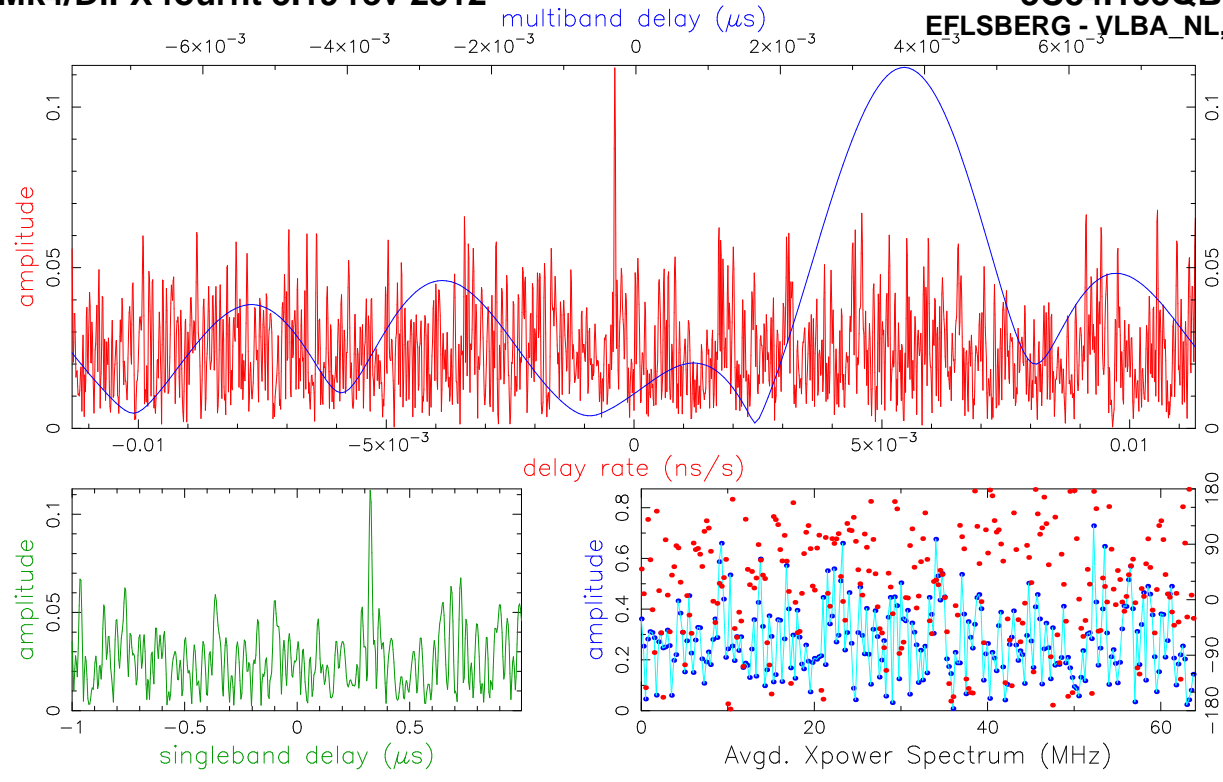


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-30.5	-66.0	-68.2	-46.8	-70.1	-39.3	-80.3	-49.7	Phase	-57.6
	0.0	0.0	0.2	0.3	0.2	0.2	0.2	0.2	Ampl.	0.1
	9.1	209.4	248.4	122.6	426.7	251.4	211.5	406.5	Sbd box	123.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-3.72860035941E+03	Apriori delay (usec)	-3.72807310157E+03	Resid mbdelay (usec)	3.99215E-03	+/-	1.9E-04
Sband delay (usec)	-3.72859643382E+03	Apriori clock (usec)	-3.3739948E+01	Resid sbdelay (usec)	-5.23332E-01	+/-	1.5E-03
Phase delay (usec)	-3.72807310342E+03	Apriori clockrate (us/s)	-3.7599999E-07	Resid phdelay (usec)	-1.85672E-06	+/-	6.6E-07
Delay rate (us/s)	2.10567106988E-01	Apriori rate (us/s)	2.10576705169E-01	Resid rate (us/s)	-9.59818E-06	+/-	3.2E-09
Total phase (deg)	-46.4	Apriori accel (us/s/s)	2.55301348569E-05	Resid phase (deg)	-57.6	+/-	20.5

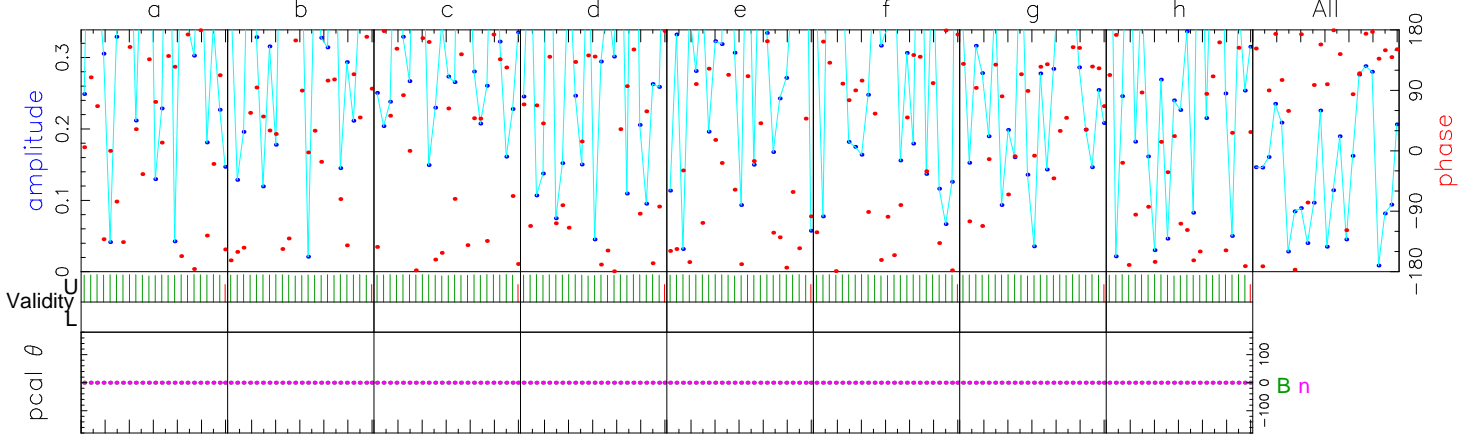
ph/seg (deg)	58.4	RMS	49.2	Theor.	58.4	Amplitude	0.150 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	85.6		85.8		85.6	Search (2048X32)	0.108	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.008	0.008
ph/frq (deg)	18.7		29.0		18.7	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled		dr window (ns/s)	-0.011	0.011
amp/frq (%)	56.7		50.6		56.7	Inc. seg. avg.	0.149	Sample rate(MISamp/s):	128			ion window (TEC)	0.00	0.00
						Inc. frq. avg.	0.137	Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite			

b: az 75.0 el 47.2 pa -59.5 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1581.574 2311.046 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bn..193QBF Output file: /Exps/c201d/v1/1234/No0057/bn.W.51.193QBF



Fringe quality 0
 SNR 5.8
 Int time 353.433
 Amp 0.113
 Phase 148.1
 PFD 8.0e-01
 Delays (us)
 SBD 0.325155
 MBD 0.003768
 Fringe rate (Hz)
 -0.033603
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122451
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

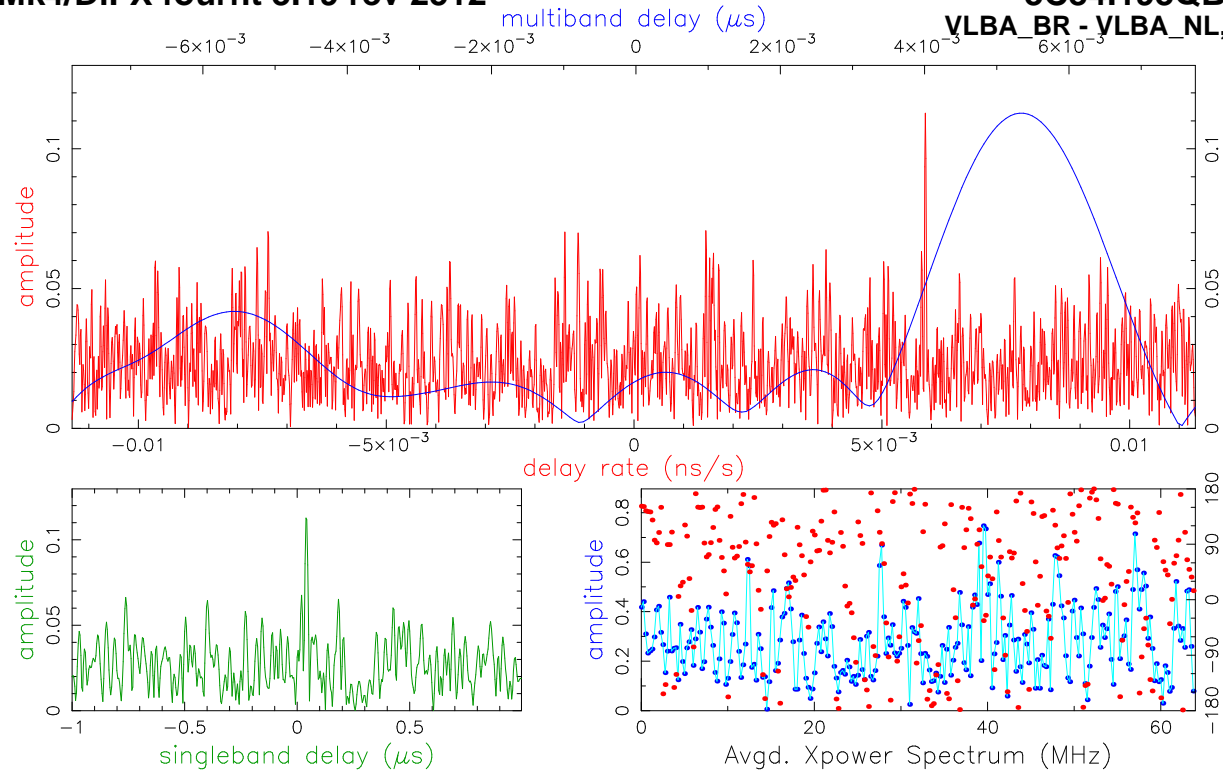
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:n	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-4.43118510347E+03									
Sband delay (usec)	-4.43119184172E+03									
Phase delay (usec)	-4.43151699195E+03									
Delay rate (us/s)	-1.14064358356E+00									
Total phase (deg)			113.0							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

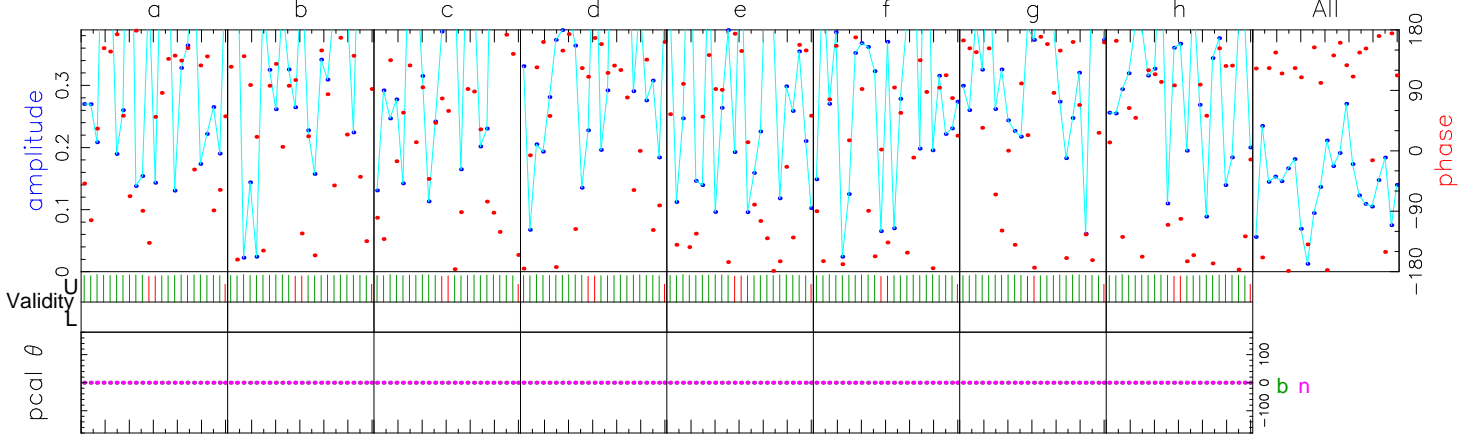
	RMS	Theor.	Amplitude	0.113 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	50.3	47.3	Search (2048X32)	0.110	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	78.4	82.6	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	27.5	27.9	Inc. seg. avg.	0.104	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	35.9	48.7	Inc. frq. avg.	0.109	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

B: az 284.8 el 45.4 pa 55.3 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) 8770.374 2829.991 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Bn..193QBF Output file: /Exps/c201d/v1/1234/No0057/Bn.W.53.193QBF



Fringe quality 0
SNR 5.9
Int time 348.663
Amp 0.130
Phase 148.4
PFD 5.7e-01
Delays (us)
SBD 0.040870
MBD 0.005313
Fringe rate (Hz) 0.507604
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122454
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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

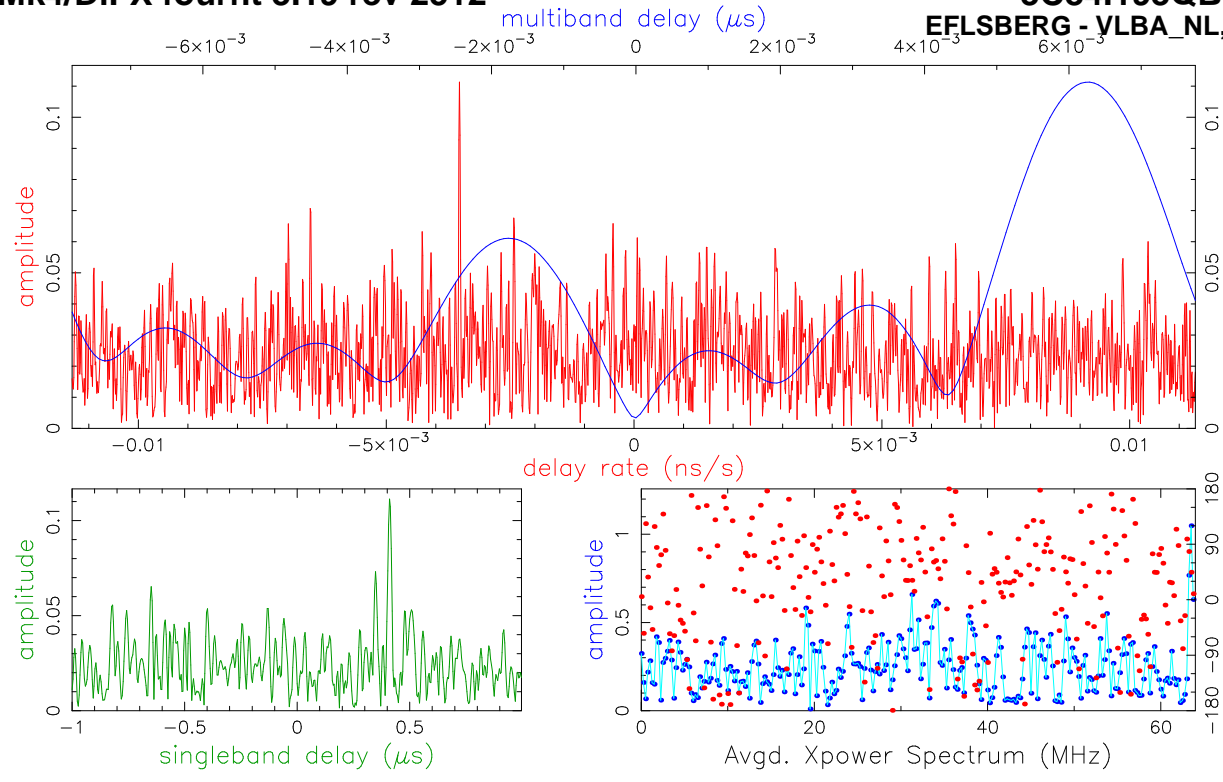


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-3.72803653864E+03	Apriori delay (usec)	-3.72807310157E+03	Resid mbdelay (usec)	5.31292E-03	+/-	1.8E-04
Sband delay (usec)	-3.72803223182E+03	Apriori clock (usec)	-3.3739948E+01	Resid sbdelay (usec)	4.08698E-02	+/-	1.5E-03
Phase delay (usec)	-3.72807309678E+03	Apriori clockrate (us/s)	-3.7599999E-07	Resid phdelay (usec)	4.78618E-06	+/-	6.2E-07
Delay rate (us/s)	2.10582597944E-01	Apriori rate (us/s)	2.10576705169E-01	Resid rate (us/s)	5.89278E-06	+/-	3.0E-09
Total phase (deg)	-200.4	Apriori accel (us/s/s)	2.55301348569E-05	Resid phase (deg)	148.4	+/-	19.4

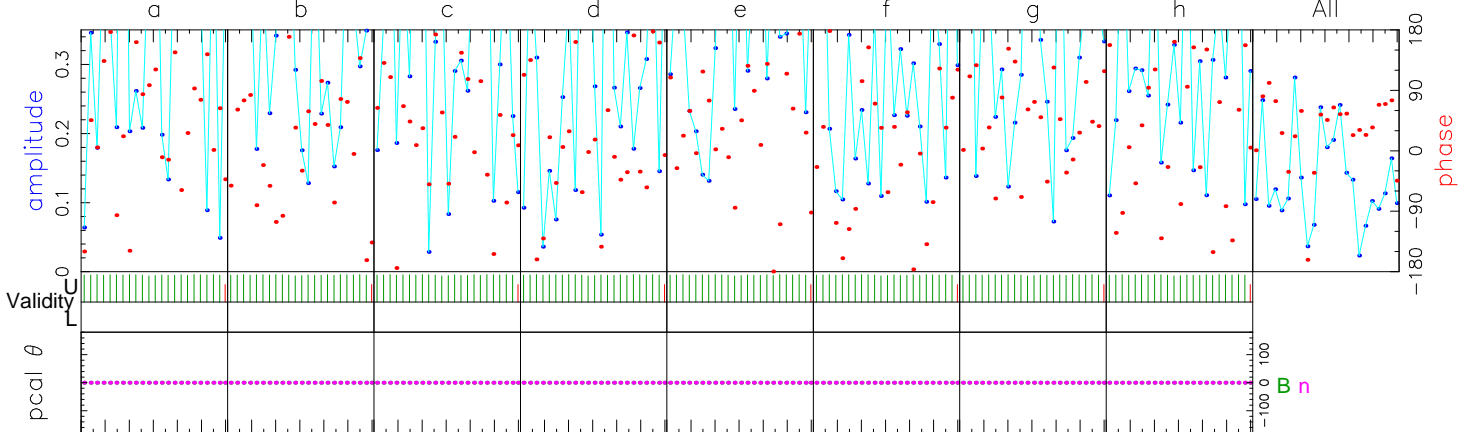
ph/seg (deg)	47.9	Theor.	46.4	Amplitude	0.130 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	55.5	Search (2048X32)	0.110	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	16.5	Inc. seg. avg.	0.121	Inc. frq. avg.	0.117	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	33.5	Inc. frq. avg.	0.117			Sample rate(MSamp/s): 128	mb window (us) -0.008 0.008
						Data rate(Mb/s): 2048	dr window (ns/s) -0.011 0.011
						nlags: 256	t_cohere infinite
							ion window (TEC) 0.00 0.00

b: az 75.0 el 47.2 pa -59.5 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1581.574 2311.046 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/bn..193QBF Output file: /Exps/c201d/v1/1234/No0057/bn.W.70.193QBF



Fringe quality 0
SNR 5.8
Int time 353.434
Amp 0.117
Phase 47.7
PFD 8.7e-01
Delays (us)
SBD 0.411286
MBD 0.006272
Fringe rate (Hz)
-0.303922
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122455
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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

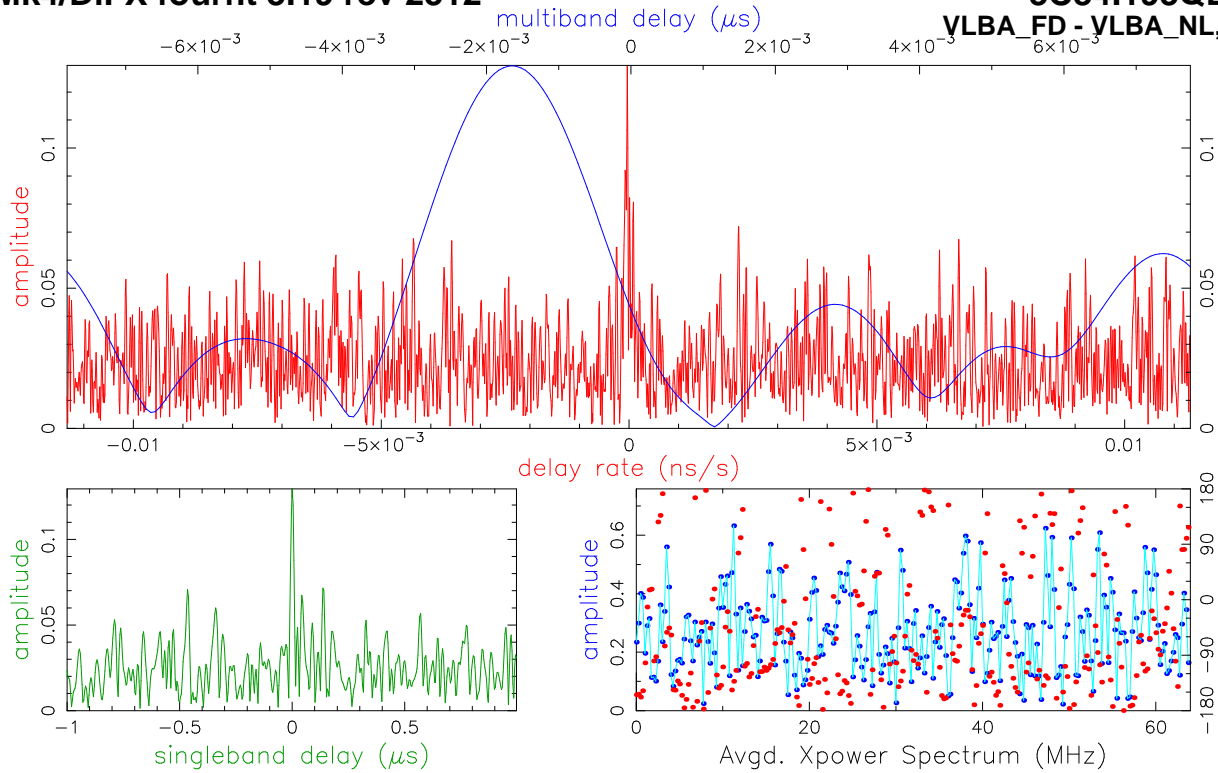


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-4.43110447506E+03				-4.43151699672E+03				6.27166E-03	+/- 1.9E-04
Sband delay (usec)	-4.43110571072E+03				-1.9300268E+01				4.11286E-01	+/- 1.5E-03
Phase delay (usec)	-4.43151699518E+03				-5.3399998E-07				1.53978E-06	+/- 6.4E-07
Delay rate (us/s)	-1.14064672169E+00				-1.14064319346E+00				-3.52823E-06	+/- 3.1E-09
Total phase (deg)			12.6		3.13911090119E-05				47.7	+/- 19.9
pcal mode:	MANUAL, MANUAL				MANUAL, MANUAL				PC period (AP's) 5, 5	
pcal rate:	0.000E+00, 0.000E+00 (us/s)				0.000E+00, 0.000E+00 (us/s)				sb window (us) -1.000 1.000	
Bits/sample:	2x2				2x2				SampCntNorm: enabled mb window (us) -0.008 0.008	
Sample rate (MSamp/s):	128				128				dr window (ns/s) -0.011 0.011	
Data rate (Mb/s):	2048				2048				ion window (TEC) 0.00 0.00	
nlags:	256				256				t_cohere infinite	

ph/seg (deg) 48.3 47.7 Search (2048X32) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 63.1 83.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 28.3 28.1 Inc. seg. avg. 0.103 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 57.4 49.1 Inc. frq. avg. 0.109 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 284.8 el 45.4 pa 55.3 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) 8770.374 2829.991 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Bn..193QBF Output file: /Exps/c201d/v1/1234/No0057/Bn.W.71.193QBF

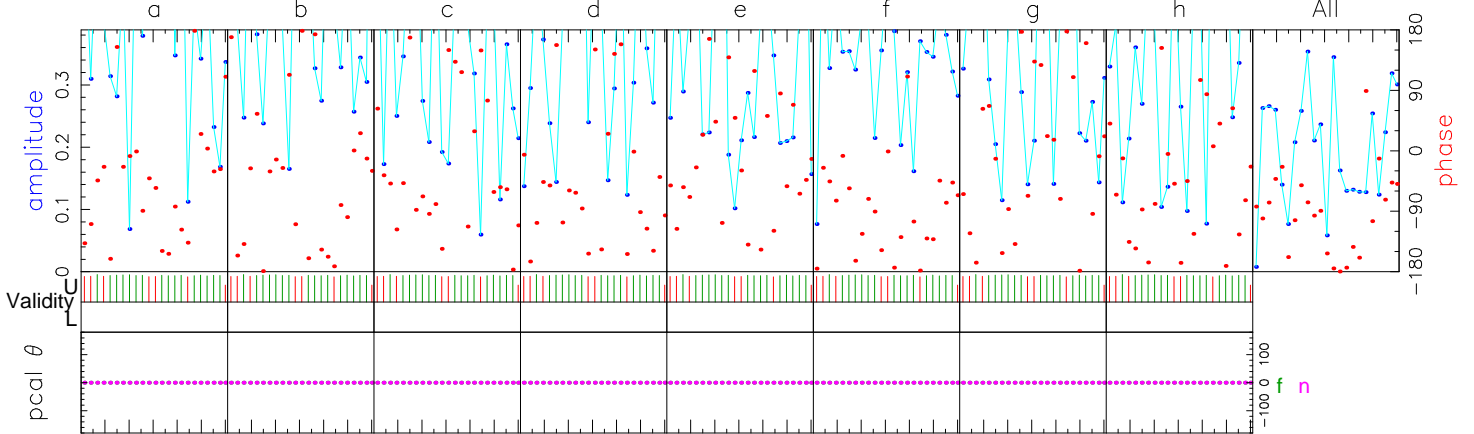
Mk4/DiFX fourfit 3.19 rev 2512

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



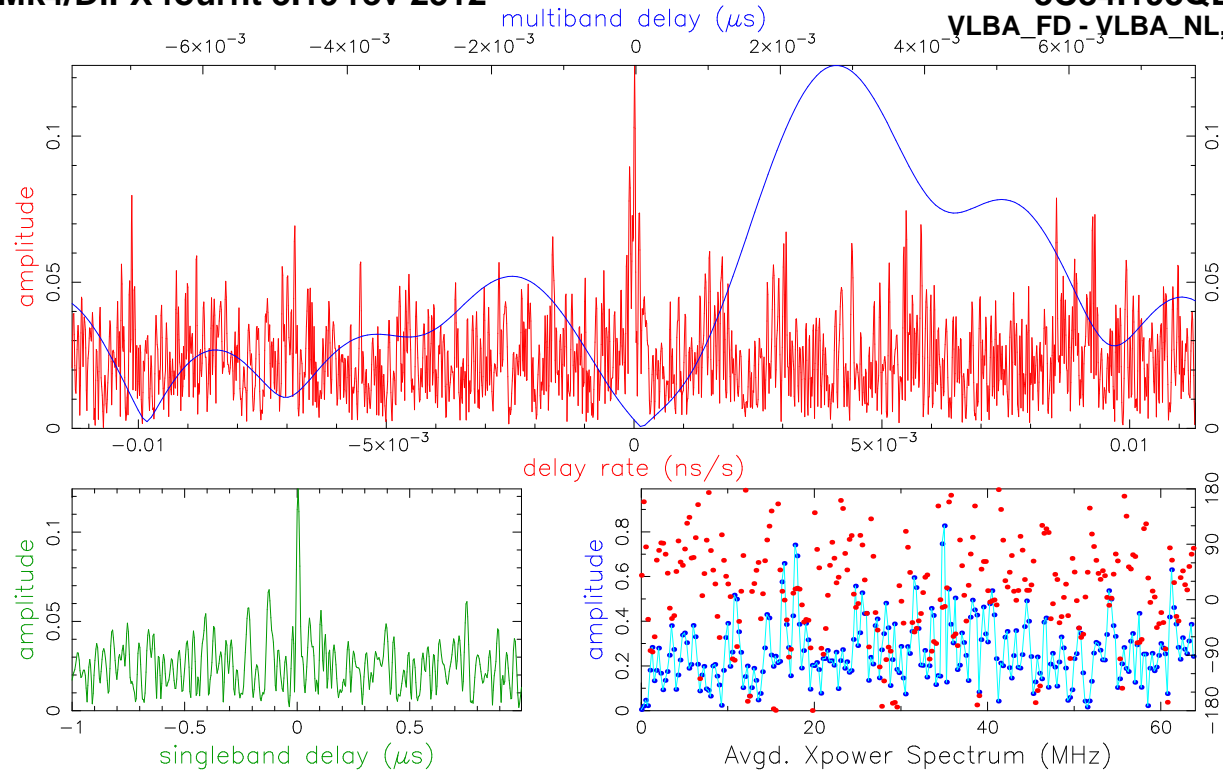
Fringe quality 0
SNR 6.6
Int time 344.332
Amp 0.129
Phase -90.1
PFD 1.4e-02
Delays (us)
SBD 0.000466
MBD -0.001635
Fringe rate (Hz)
-0.002526
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.51
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652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

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



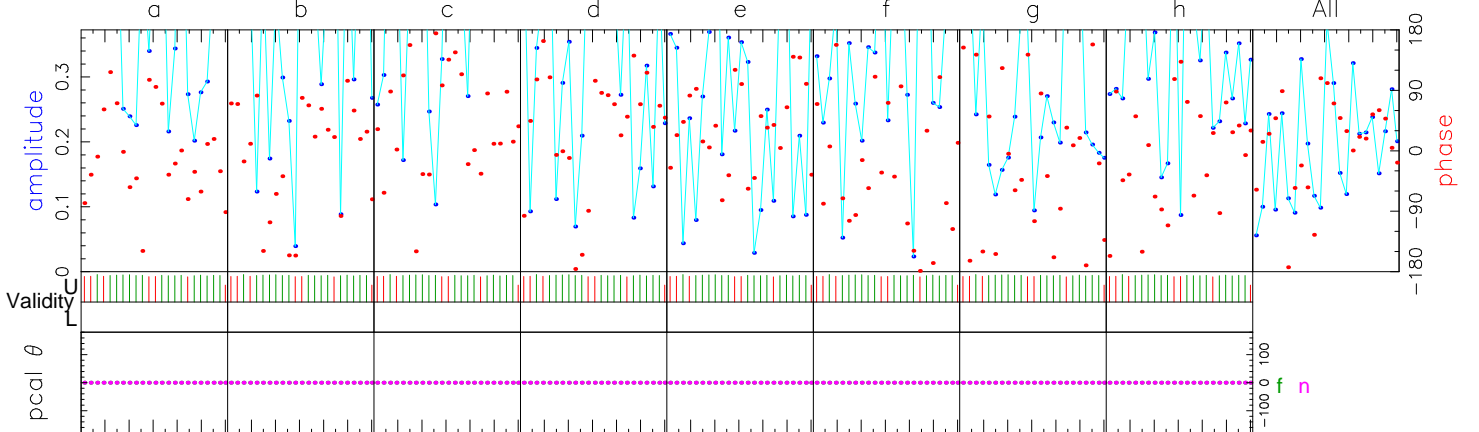
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-84.8	-98.9	-87.2	-100.5	-61.7	-85.8	173.2	-79.3	Phase	-90.1
	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.1	Ampl.	0.1
	257.9	95.3	53.6	257.0	64.8	255.7	137.9	268.1	Sbd box	257.1
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0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

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



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

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

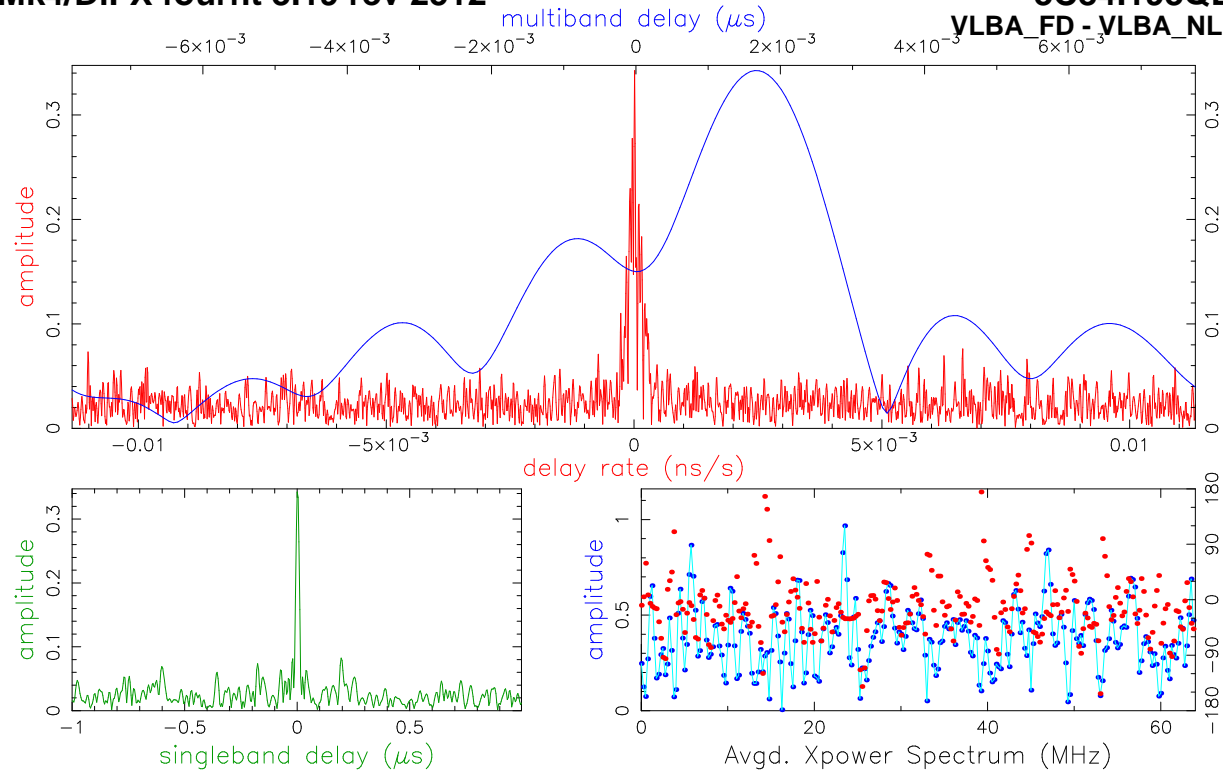


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	-2.53937170924E+03				-2.53937448769E+03				2.77845E-03	+/- 1.7E-04
Sband delay (usec)	-2.53937072744E+03				-2.8407417E+01				3.76025E-03	+/- 1.4E-03
Phase delay (usec)	-2.53937448669E+03				-2.2499998E-07				9.97373E-07	+/- 5.9E-07
Delay rate (us/s)	2.39519274845E-01				2.39519261087E-01				1.37574E-08	+/- 2.8E-09
Total phase (deg)			-102.1		1.64015328410E-06				30.9	+/- 18.2
	RMS	Theor.	Amplitude	0.124 +/- 0.020	Pcal mode: MANUAL, MANUAL				PC period (AP's) 5, 5	
ph/seg (deg)	65.2	43.6	Search (2048X32)	0.122	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000 1.000
amp/seg (%)	90.6	76.1	Interp.	0.000	Bits/sample: 2x2				mb window (us)	-0.008 0.008
ph/frq (deg)	71.2	25.7	Inc. seg. avg.	0.151	Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011 0.011
amp/frq (%)	61.9	44.9	Inc. frq. avg.	0.128	Data rate(Mb/s): 2048				ion window (TEC)	0.00 0.00
f: az 60.3 el 52.1 pa -91.3			n: az 79.2 el 65.3 pa -78.1		u,v (fr/asec) -1829.771 -909.872					simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fn..193QBF Output file: /Exps/c201d/v1/1234/No0057/fn.W.135.193QBF

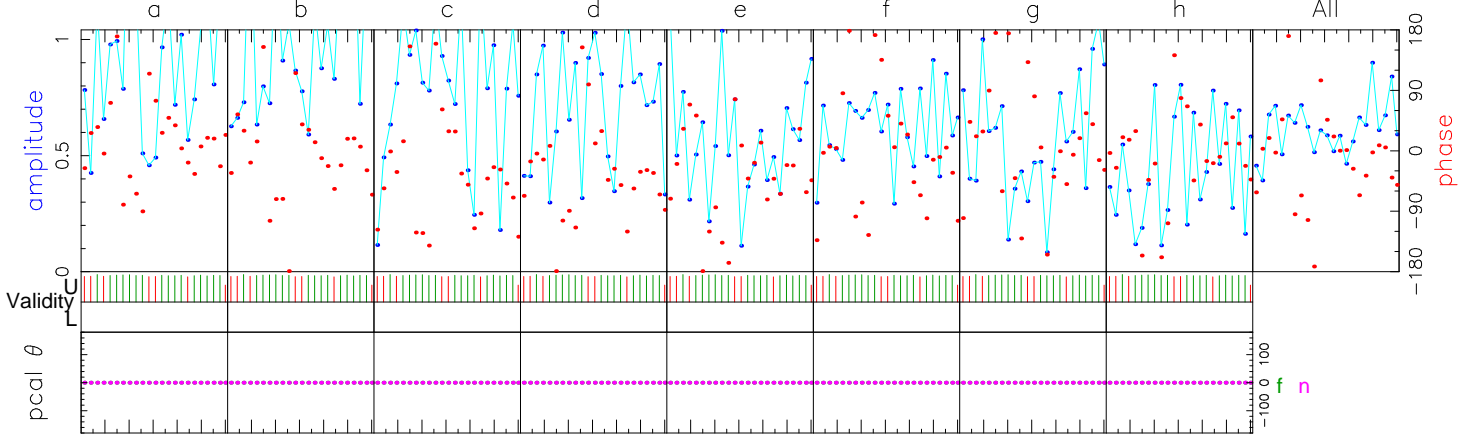
Mk4/DiFX fourfit 3.19 rev 2512

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



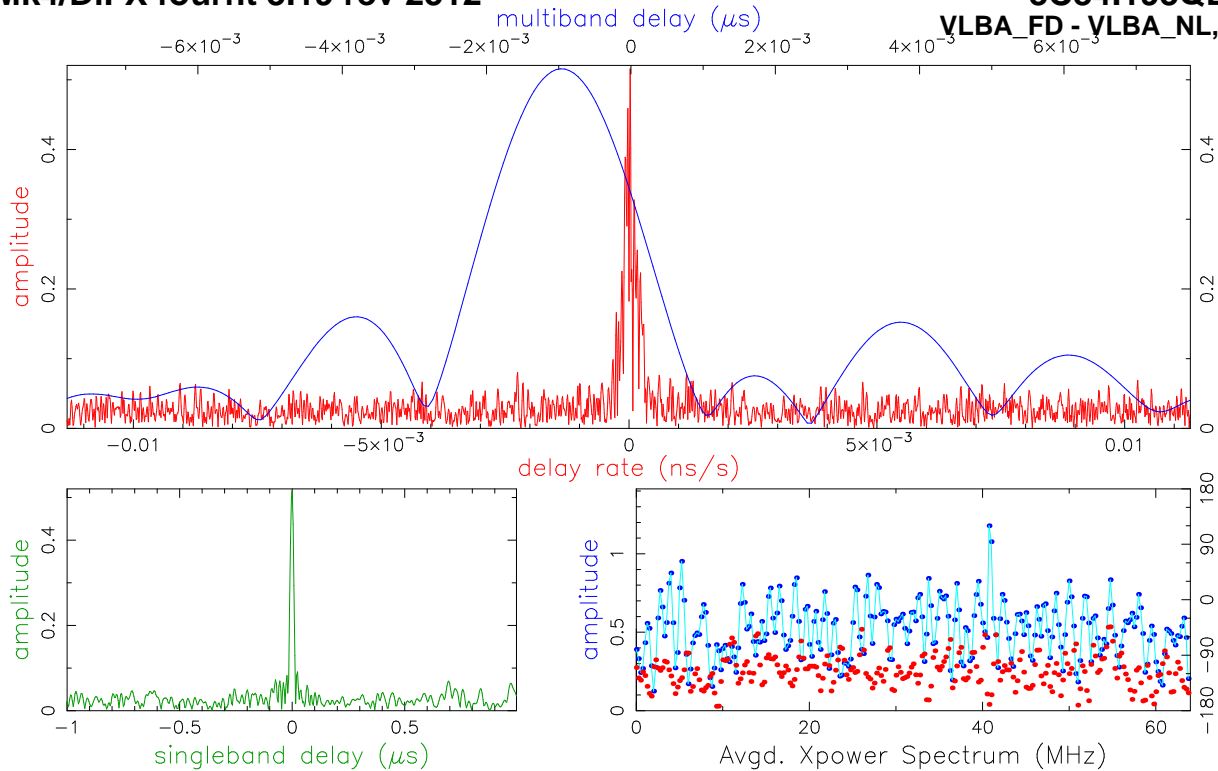
Fringe quality 7
 SNR 17.6
 Int time 344.332
 Amp 0.347
 Phase -18.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.001478
 MBD 0.001681
 Fringe rate (Hz)
 0.001422
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.51
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122458
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

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



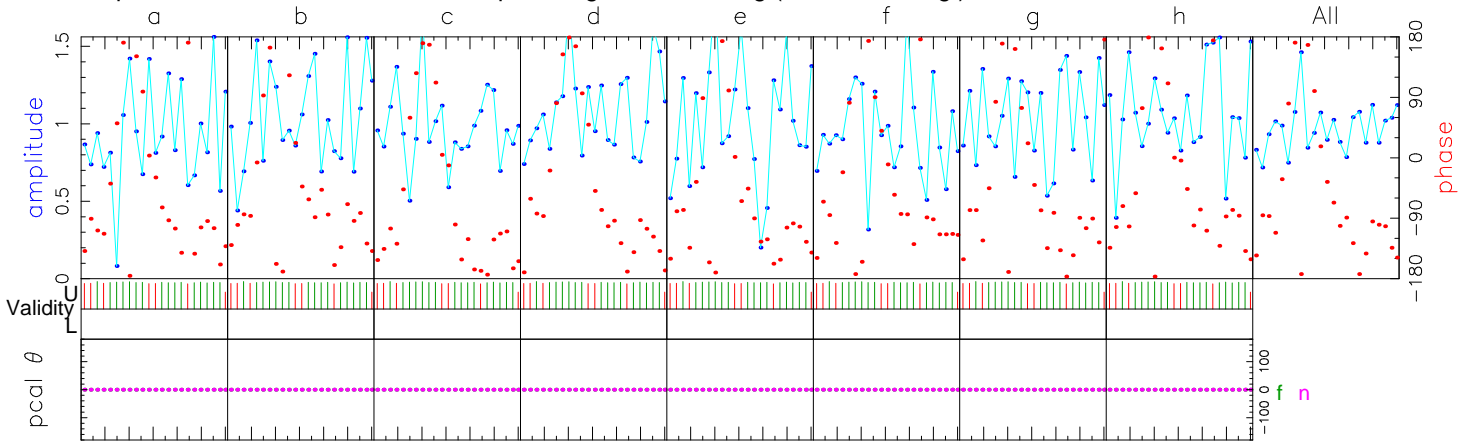
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)		-2.53937280622E+03			-2.53937448769E+03				1.68147E-03	+/- 6.2E-05
Sband delay (usec)		-2.53937300994E+03			-2.8407417E+01				1.47775E-03	+/- 4.9E-04
Phase delay (usec)		-2.53937448829E+03			-2.2499998E-07				-6.02553E-07	+/- 2.1E-07
Delay rate (us/s)		2.39519277594E-01			2.39519261087E-01				1.65073E-08	+/- 1.0E-09
Total phase (deg)			-151.7		1.64015328410E-06				-18.7	+/- 6.5
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 67.7 15.6 Search (2048X32) 0.318 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 84.4 27.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.3 9.2 Inc. seg. avg. 0.595 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.3 16.0 Inc. frq. avg. 0.363 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 60.3 el 52.1 pa -91.3 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1829.771 -909.872 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fn..193QBF Output file: /Exps/c201d/v1/1234/No0057/fn.W.83.193QBF



Fringe quality 7
 SNR 26.4
 Int time 344.333
 Amp 0.521
 Phase -119.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.001251
 MBD -0.000989
 Fringe rate (Hz)
 0.001460
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.51
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122502
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

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

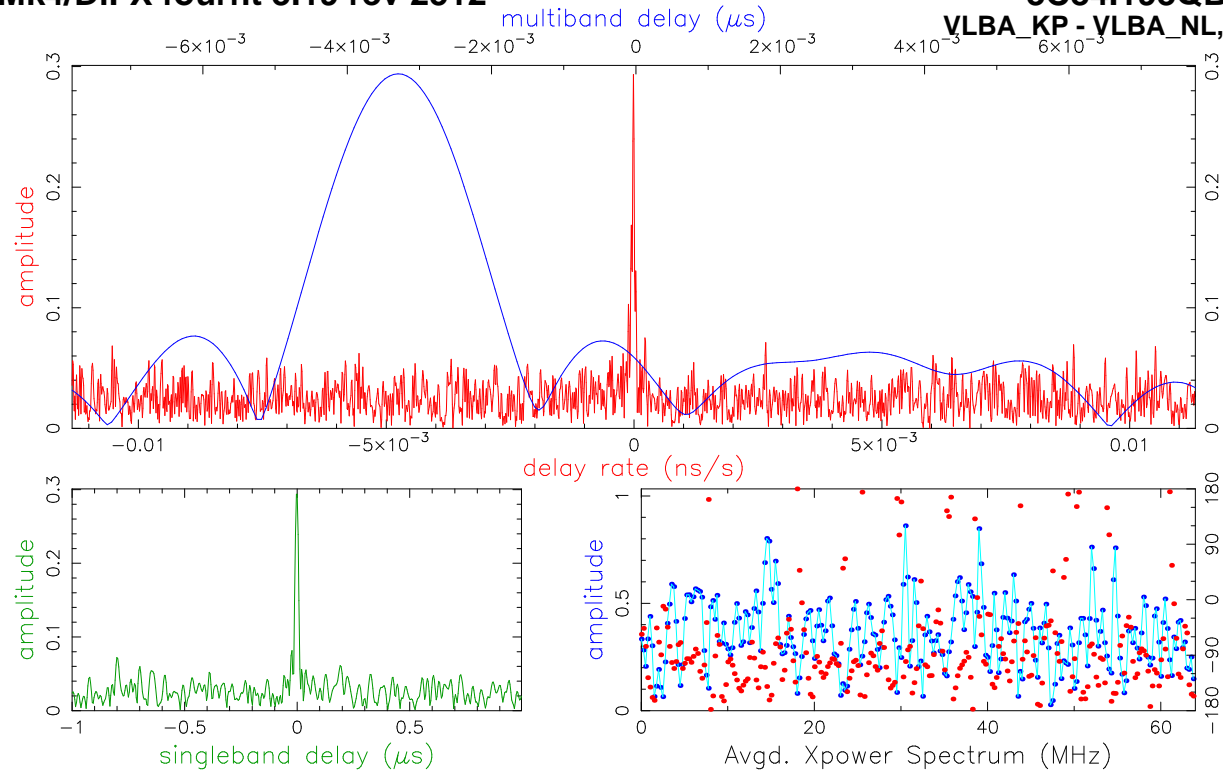


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-118.8	-101.4	-147.0	-128.7	-114.4	-106.2	-122.6	-114.6	Phase	-119.5
	0.5	0.5	0.6	0.5	0.6	0.4	0.5	0.5	Ampl.	0.5
	257.0	256.7	256.2	257.0	256.9	256.3	256.8	256.7	Sbd box	256.7
U/L	702/0	702/0	702/0	702/0	702/0	702/0	702/0	702/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.53937547716E+03			Apriori delay (usec)	-2.53937448769E+03			Resid mbdelay (usec)	-9.89469E-04	+/- 4.1E-05
Sband delay (usec)	-2.53937573919E+03			Apriori clock (usec)	-2.8407417E+01			Resid sbdelay (usec)	-1.25150E-03	+/- 3.3E-04
Phase delay (usec)	-2.53937449154E+03			Apriori clockrate (us/s)	-2.2499998E-07			Resid phdelay (usec)	-3.85209E-06	+/- 1.4E-07
Delay rate (us/s)	2.39519278033E-01			Apriori rate (us/s)	2.39519261087E-01			Resid rate (us/s)	1.69459E-08	+/- 6.7E-10
Total phase (deg)		-252.5		Apriori accel (us/s/s)	1.64015328410E-06			Resid phase (deg)	-119.5	+/- 4.3

ph/seg (deg) 67.8 10.4 Theor. Amplitude 0.521 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 91.9 18.2 Search (2048X32) 0.487 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 15.3 6.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 7.6 10.7 Inc. seg. avg. 0.957 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 f: az 60.3 el 52.1 pa -91.3 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1829.771 -909.872 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/fn..193QBF Output file: /Exps/c201d/v1/1234/No0057/fn.W.95.193QBF simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, kn
VLBA_KP - VLBA_NL, fgroup W, pol RR

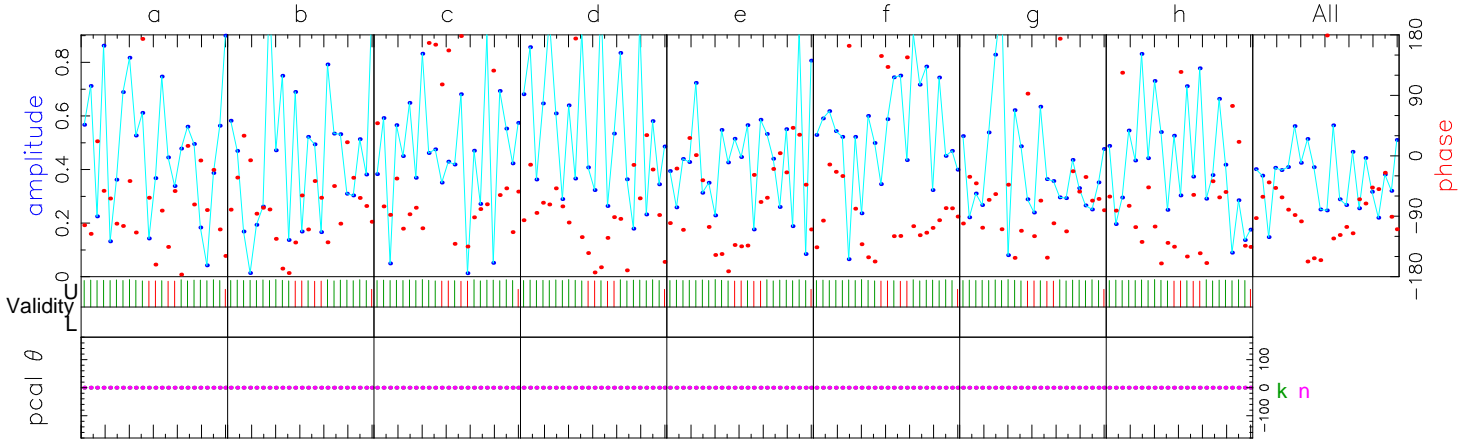


Fringe quality 9

SNR 15.3
Int time 346.917
Amp 0.301
Phase -93.4
PFD 3.1e-44
Delays (us)
SBD -0.001942
MBD -0.003228
Fringe rate (Hz)
-0.000771
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

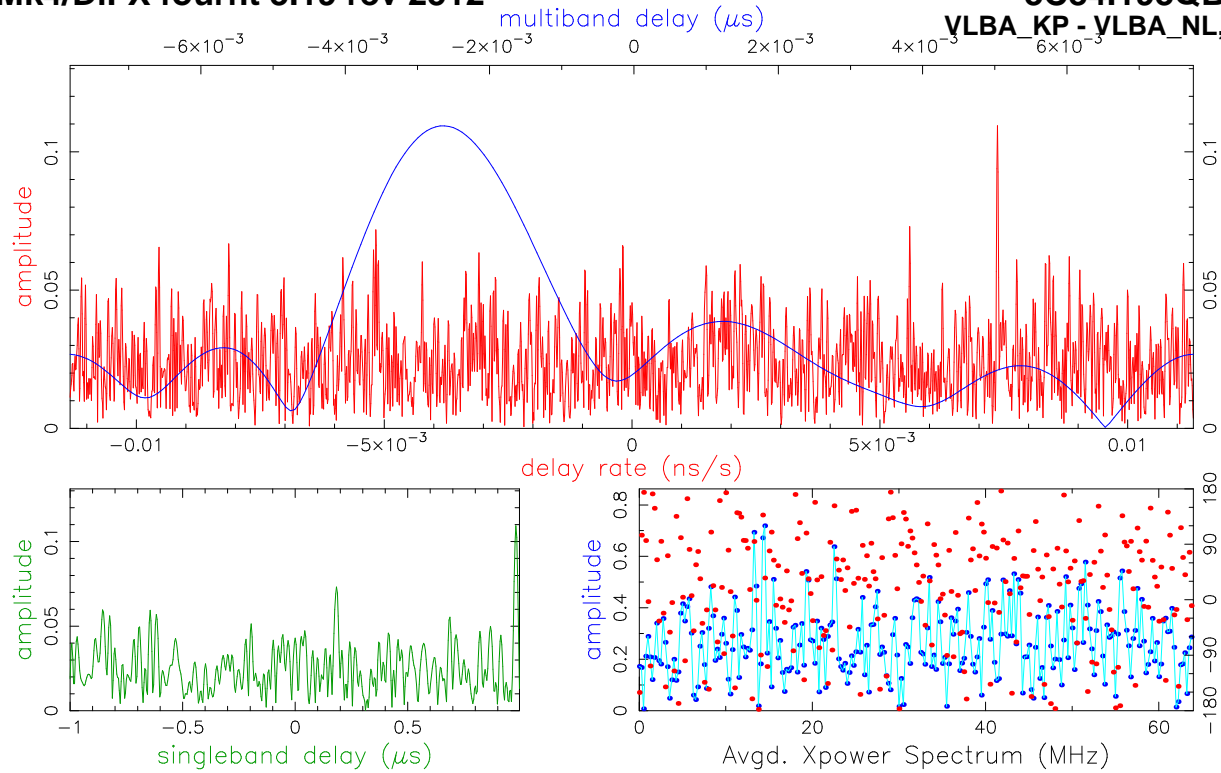
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122507
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
k:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:n	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.75791065830E+03	-3.75790937249E+03	-3.75790743326E+03	-3.75790743024E+03	-3.75790743024E+03	-3.75790743024E+03	-3.75790743024E+03	-3.75790743024E+03		
Sband delay (usec)	-3.75790937249E+03	-3.75790937249E+03	-3.75790937249E+03	-3.75790937249E+03	-3.75790937249E+03	-3.75790937249E+03	-3.75790937249E+03	-3.75790937249E+03		
Phase delay (usec)	-3.75790743326E+03	-3.75790743326E+03	-3.75790743326E+03	-3.75790743326E+03	-3.75790743326E+03	-3.75790743326E+03	-3.75790743326E+03	-3.75790743326E+03		
Delay rate (us/s)	3.16838939210E-01	3.16838939210E-01	3.16838939210E-01	3.16838939210E-01	3.16838939210E-01	3.16838939210E-01	3.16838939210E-01	3.16838939210E-01		
Total phase (deg)			-108.2							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
Amplitude	0.301 +/- 0.020									
Search (2048X32)	0.290									
Interp.	0.000									
Inc. seg. avg.	0.355									
Inc. frq. avg.	0.294									
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)	41.2	17.9								
amp/seg (%)	43.2	31.3								
ph/frq (deg)	14.3	10.6								
amp/frq (%)	17.5	18.4								
k: az 61.4 el 47.0 pa -85.5										
n: az 79.2 el 65.3 pa -78.1										
u,v (fr/asec)	-2412.163	-222.408								
Control file: cf_1234_gmva										
Input file: /Exps/c201d/v1/1234/No0057/kn..193QBF										
Output file: /Exps/c201d/v1/1234/No0057/kn.W.119.193QBF										

simultaneous interpolator

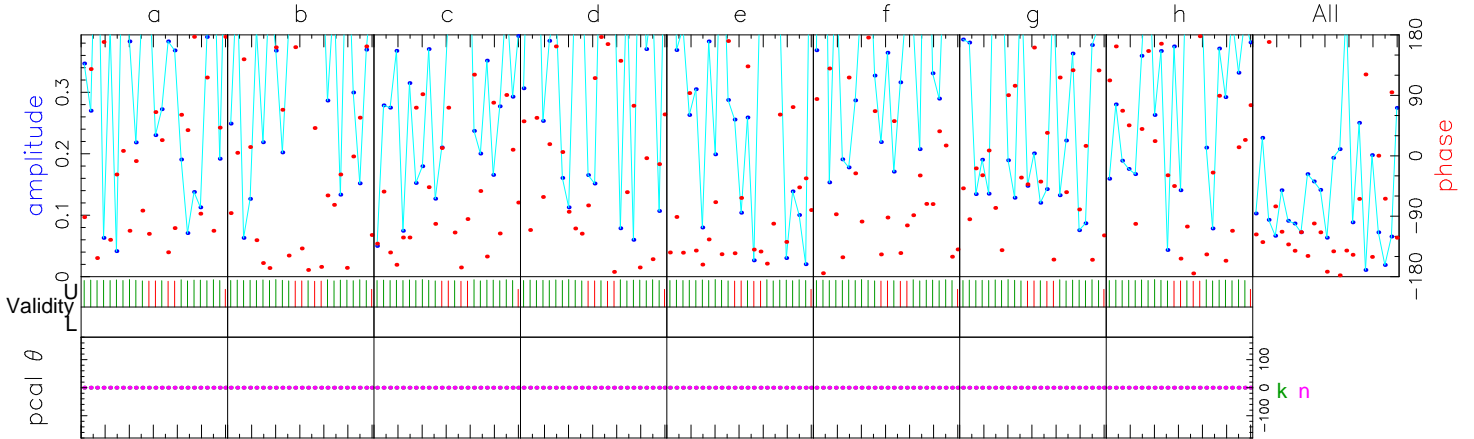


Fringe quality 0

SNR 5.6
Int time 346.917
Amp 0.131
Phase -130.9
PFD 1.0e+00
Delays (us)
SBD 0.980874
MBD -0.002638
Fringe rate (Hz)
0.636314
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

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

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

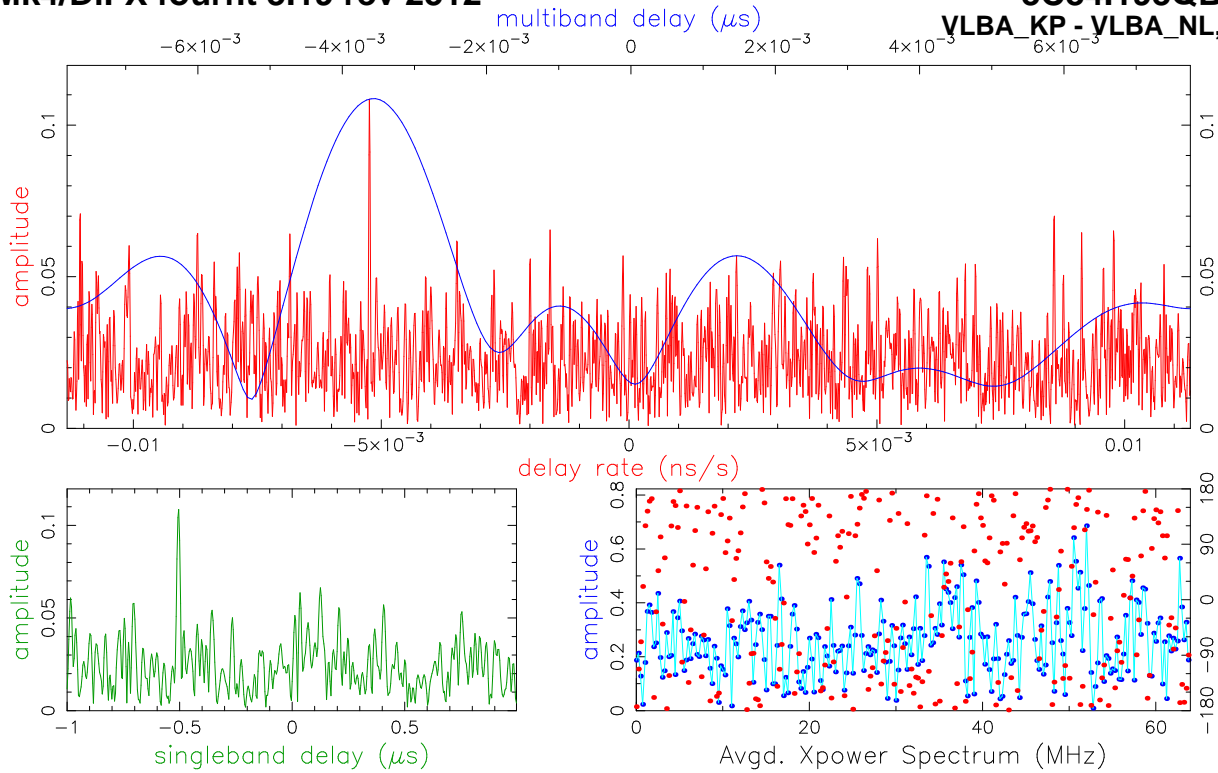


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
Group delay (usec)(sbd)	-118.6	-149.4	-115.2	-145.9	-136.7	-115.5	-101.4	164.7		-130.9
Sband delay (usec)	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.1		0.1
Phase delay (usec)	291.1	408.2	50.6	233.6	507.6	506.2	431.1	91.7		508.1
Delay rate (us/s)	U/L 703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
Total phase (deg)	k 1000	1000	1000	1000	1000	1000	1000	1000		
	n 1000	1000	1000	1000	1000	1000	1000	1000		
	k:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
	k:n 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		
	n 1000	1000	1000	1000	1000	1000	1000	1000		
	k W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
	n W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

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

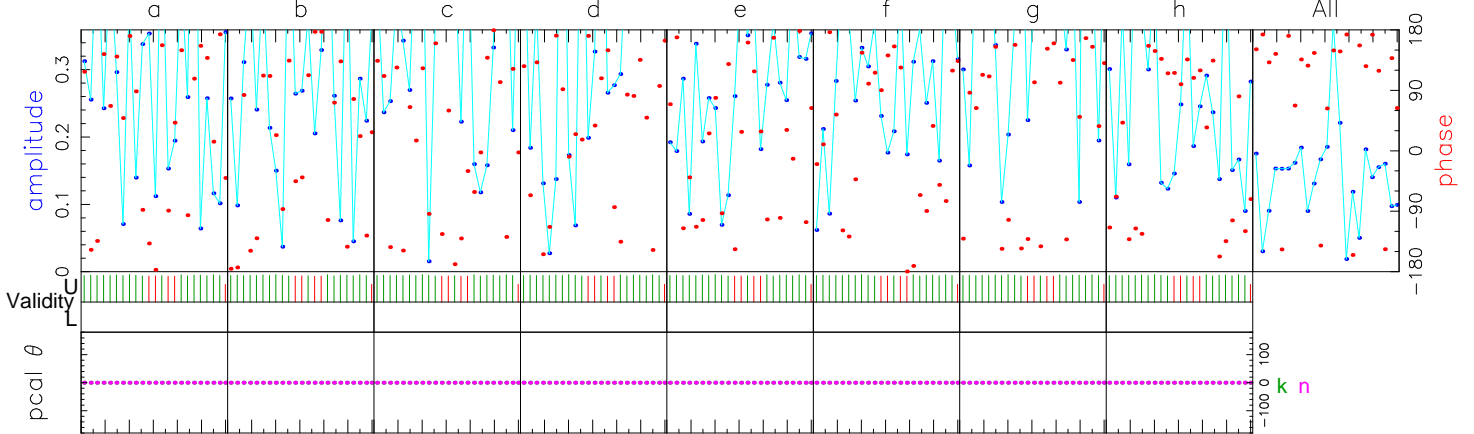
k: az 61.4 el 47.0 pa -85.5 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -2412.163 -222.408 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/kn..193QBF Output file: /Exps/c201d/v1/1234/No0057/kn.W.139.193QBF

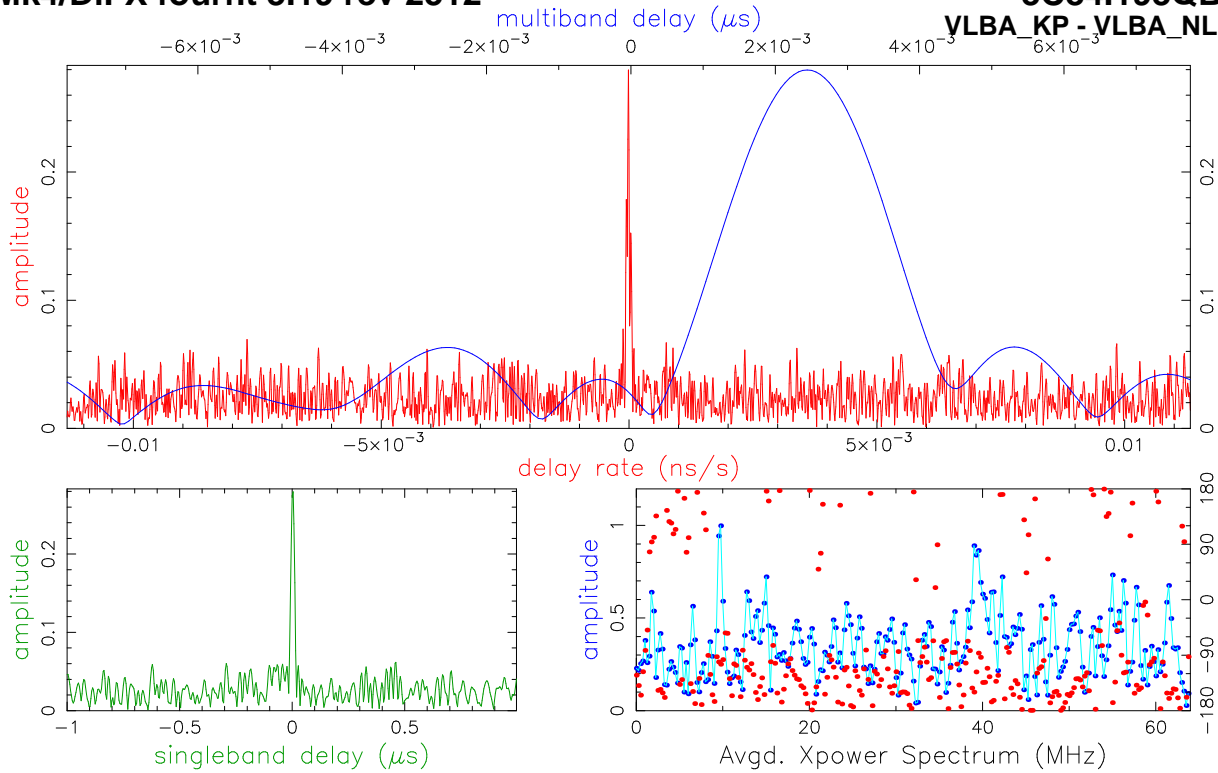


Fringe quality 0
SNR 5.6
Int time 346.918
Amp 0.120
Phase 148.6
PFD 1.0e+00
Delays (us)
SBD -0.505026
MBD -0.003632
Fringe rate (Hz)
-0.451919
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122515
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
k:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:n	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-3.75841106196E+03				-3.75790743024E+03				-3.63172E-03	+/- 1.9E-04
Sband delay (usec)	-3.75841245649E+03				-3.2665855E+01				-5.05026E-01	+/- 1.5E-03
Phase delay (usec)	-3.75790742545E+03				-3.2859999E-07				4.79259E-06	+/- 6.6E-07
Delay rate (us/s)	3.16833701829E-01				3.16838948156E-01				-5.24633E-06	+/- 3.2E-09
Total phase (deg)			133.8		9.57283922229E-06				148.6	+/- 20.6
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
PC freqs										
PC phase										
ManI PC										
PC amp										
Chan ids										
Tracks										
Chan ids										
Tracks										
ph/seg (deg)	RMS 42.1	Theor. 49.3	Amplitude Search (2048X32) 0.106	0.120 +/- 0.021	0.106					
amp/seg (%)	71.1	86.0	Interp. 0.000	0.000						
ph/frq (deg)	28.7	29.1	Inc. seg. avg. 0.115	0.115						
amp/frq (%)	63.6	50.7	Inc. frq. avg. 0.113	0.113						
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
PC freqs										
PC phase										
ManI PC										
PC amp										
Chan ids										
Tracks										
Chan ids										
Tracks										
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								
u,v (fr/asec)	-2412.163	-222.408								
simultaneous interpolator										

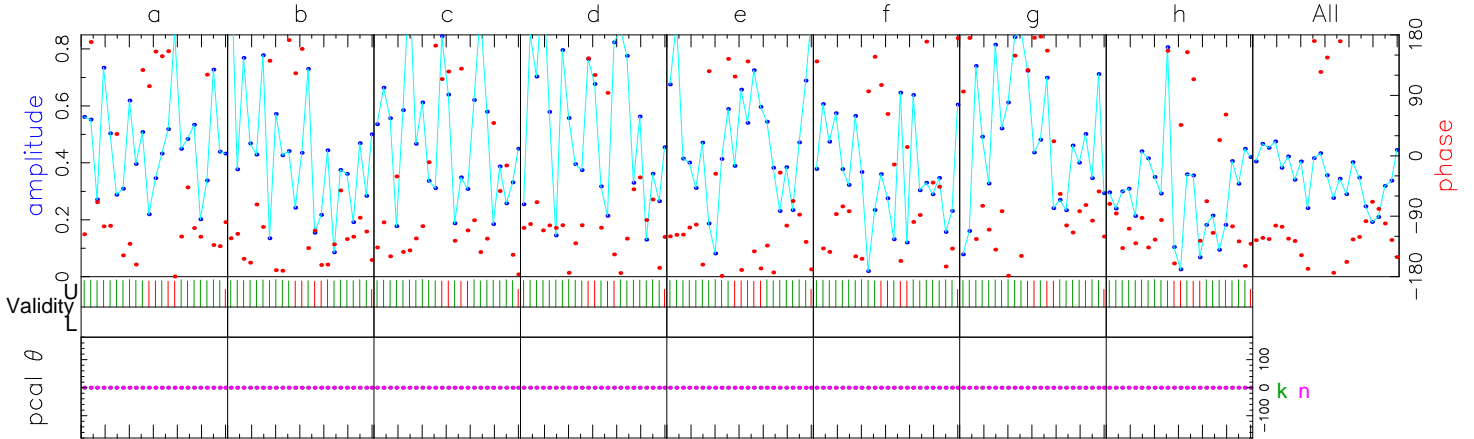


Fringe quality 9

SNR 14.4
Int time 346.918
Amp 0.283
Phase -137.0
PFD 2.1e-38
Delays (us)
SBD 0.002384
MBD 0.002407
Fringe rate (Hz)
-0.000845
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122503
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



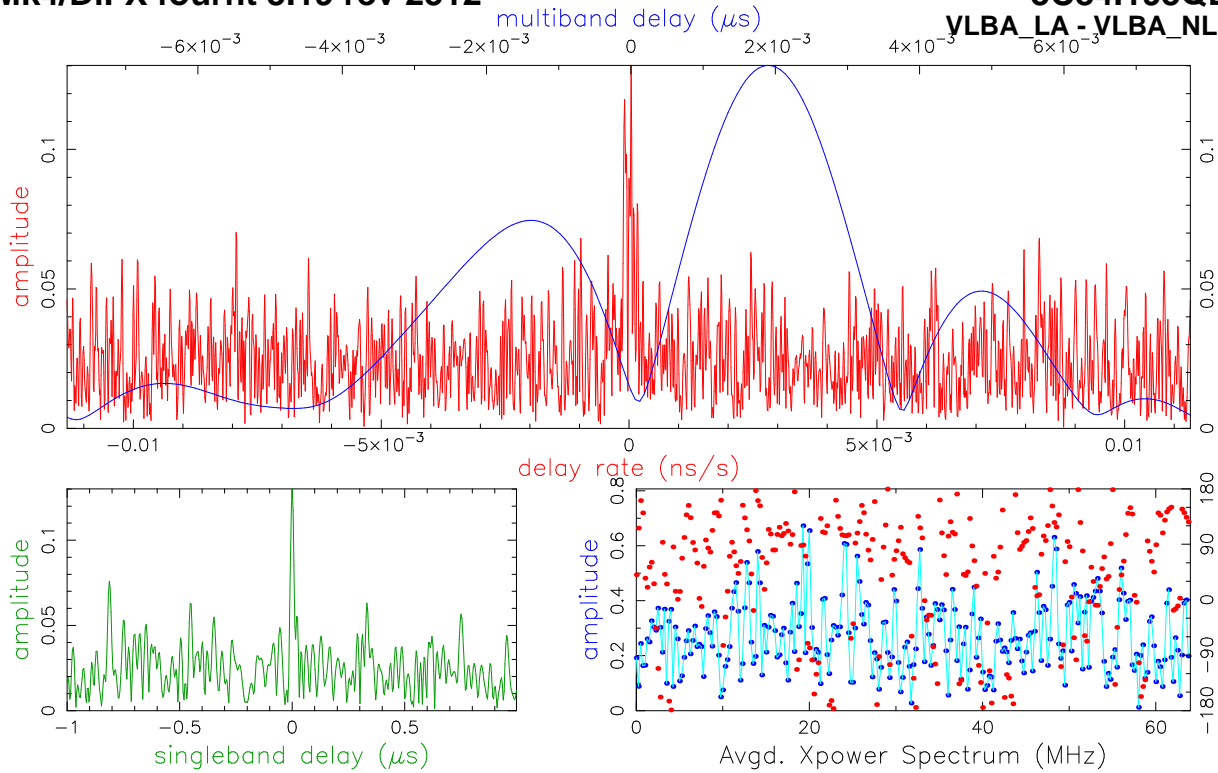
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
k:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-3.75790502373E+03	Apriori delay (usec)	-3.75790743024E+03	Resid mbdelay (usec)	2.40651E-03	+/-	7.5E-05
Sband delay (usec)	-3.75790504649E+03	Apriori clock (usec)	-3.2665855E+01	Resid sbdelay (usec)	2.38375E-03	+/-	6.0E-04
Phase delay (usec)	-3.75790743466E+03	Apriori clockrate (us/s)	-3.2859999E-07	Resid phdelay (usec)	-4.41747E-06	+/-	2.6E-07
Delay rate (us/s)	3.16838938346E-01	Apriori rate (us/s)	3.16838948156E-01	Resid rate (us/s)	-9.80927E-09	+/-	1.2E-09
Total phase (deg)	-151.8	Apriori accel (us/s/s)	9.57283922229E-06	Resid phase (deg)	-137.0	+/-	7.9

ph/seg (deg)	41.0	RMS	21.4	Theor.	19.6	Amplitude	0.283 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	38.5	Search (2048X32)	0.279	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	7.9	Inc. seg. avg.	0.337	Inc. frq. avg.	0.277	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	21.4	Inc. frq. avg.	0.277	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

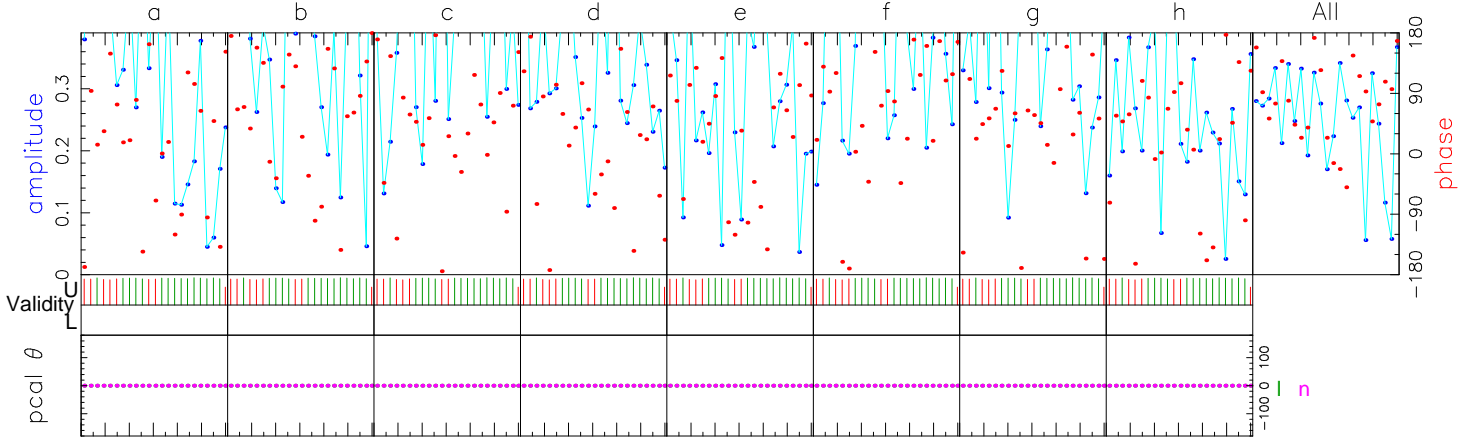
k: az 61.4 el 47.0 pa -85.5 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -2412.163 -222.408 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/kn..193QBF Output file: /Exps/c201d/v1/1234/No0057/kn.W.98.193QBF



Fringe quality 0
 SNR 6.6
 Int time 345.553
 Amp 0.130
 Phase 77.5
 PFD 1.1e-02
 Delays (us)
 SBD -0.000096
 MBD 0.001901
 Fringe rate (Hz) 0.003424
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build 2020:204:103652
 2020:204:122505
 2020:014:135814
 RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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

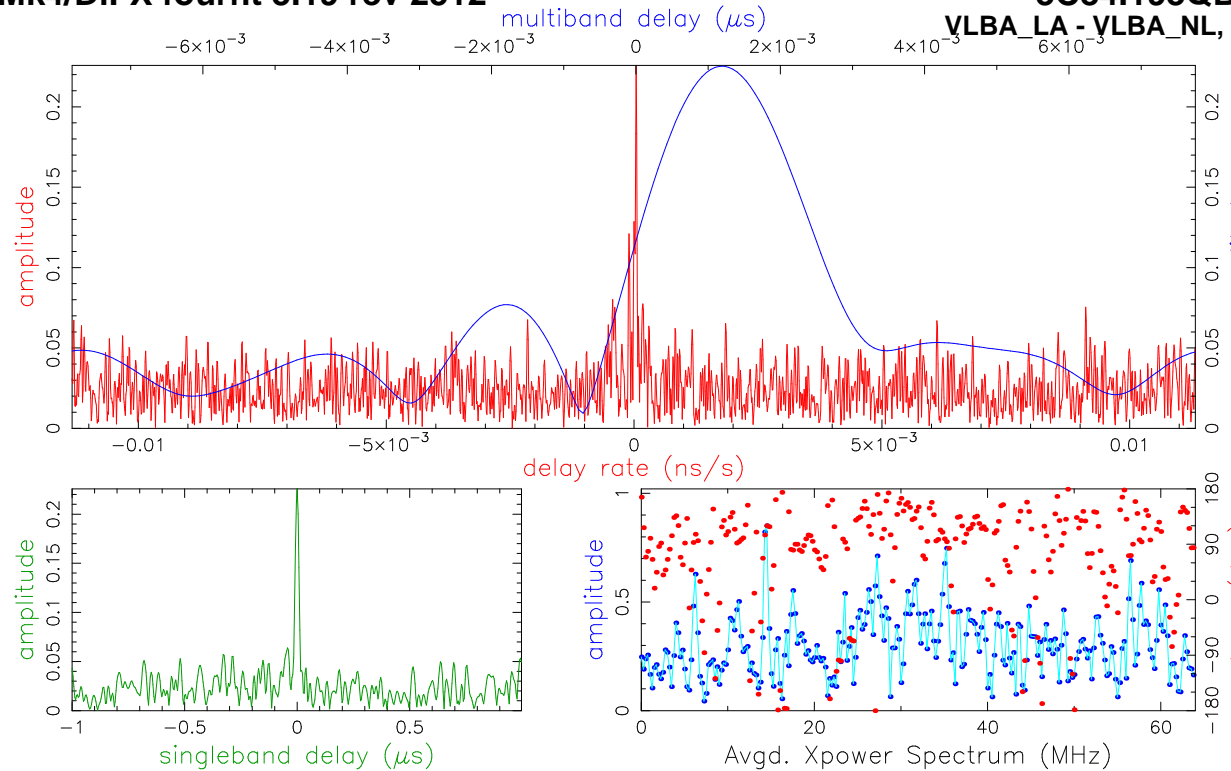


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-2.41586248648E+03	Apriori delay (usec)	-2.41586438772E+03	Resid mbdelay (usec)	1.90124E-03	+/-	1.6E-04
Sband delay (usec)	-2.41586448397E+03	Apriori clock (usec)	-3.6055763E+01	Resid sbdelay (usec)	-9.62500E-05	+/-	1.3E-03
Phase delay (usec)	-2.41586438522E+03	Apriori clockrate (us/s)	-4.8500001E-07	Resid phdelay (usec)	2.49865E-06	+/-	5.6E-07
Delay rate (us/s)	2.25810545440E-01	Apriori rate (us/s)	2.25810505688E-01	Resid rate (us/s)	3.97522E-08	+/-	2.7E-09
Total phase (deg)	-51.6	Apriori accel (us/s/s)	6.55990036875E-06	Resid phase (deg)	77.5	+/-	17.3

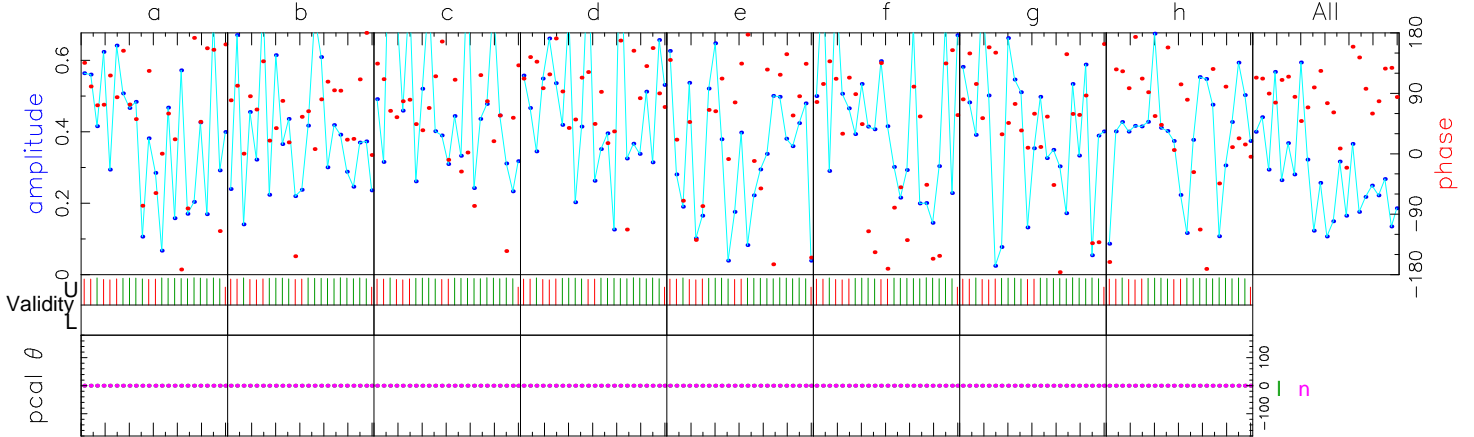
ph/seg (deg)	59.2	Theor.	41.5	Amplitude	0.130 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	112.9	Search (2048X32)	0.125	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	22.6	Inc. seg. avg.	0.198	Inc. frq. avg.	0.125	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	49.2	Inc. frq. avg.	0.125			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

l: az 66.2 el 52.6 pa -83.2 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1719.674 -70.553 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/In..193QBF Output file: /Exps/c201d/v1/1234/No0057/In.W.110.193QBF



Fringe quality 9
 SNR 11.5
 Int time 345.553
 Amp 0.226
 Phase 90.4
 PFD 8.4e-22
 Delays (us)
 SBD -0.000608
 MBD 0.001187
 Fringe rate (Hz) 0.003477
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build 2020:204:103652
 2020:204:122509
 2020:014:135814
 RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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

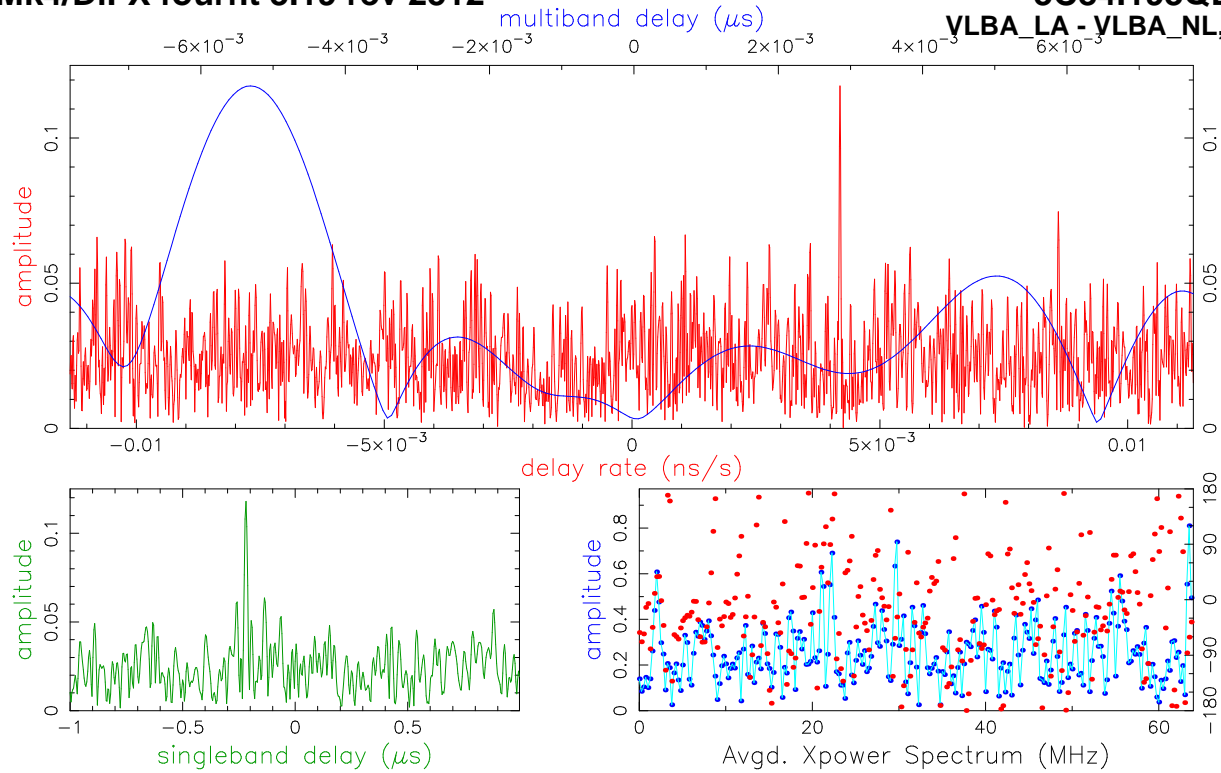


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	APs used	256.8
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:n	0:0	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.41586320108E+03					-2.41586438772E+03			Resid mbdelay (usec)	1.18665E-03 +/- 9.5E-05
Sband delay (usec)	-2.41586499622E+03					-3.6055763E+01			Resid sbdelay (usec)	-6.08500E-04 +/- 7.5E-04
Phase delay (usec)	-2.41586438481E+03					-4.8500001E-07			Resid phdelay (usec)	2.91411E-06 +/- 3.2E-07
Delay rate (us/s)	2.25810546053E-01					2.25810505688E-01			Resid rate (us/s)	4.03651E-08 +/- 1.5E-09
Total phase (deg)			-38.7			6.55990036875E-06			Resid phase (deg)	90.4 +/- 10.0
	RMS	Theor.	Amplitude	0.226 +/- 0.020					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	40.6	23.9	Search (2048X32)	0.216					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	61.9	41.8	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	21.6	14.1	Inc. seg. avg.	0.260					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	28.0	24.6	Inc. frq. avg.	0.232					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

l: az 66.2 el 52.6 pa -83.2 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1719.674 -70.553 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/In..193QBF Output file: /Exps/c201d/v1/1234/No0057/In.W.129.193QBF

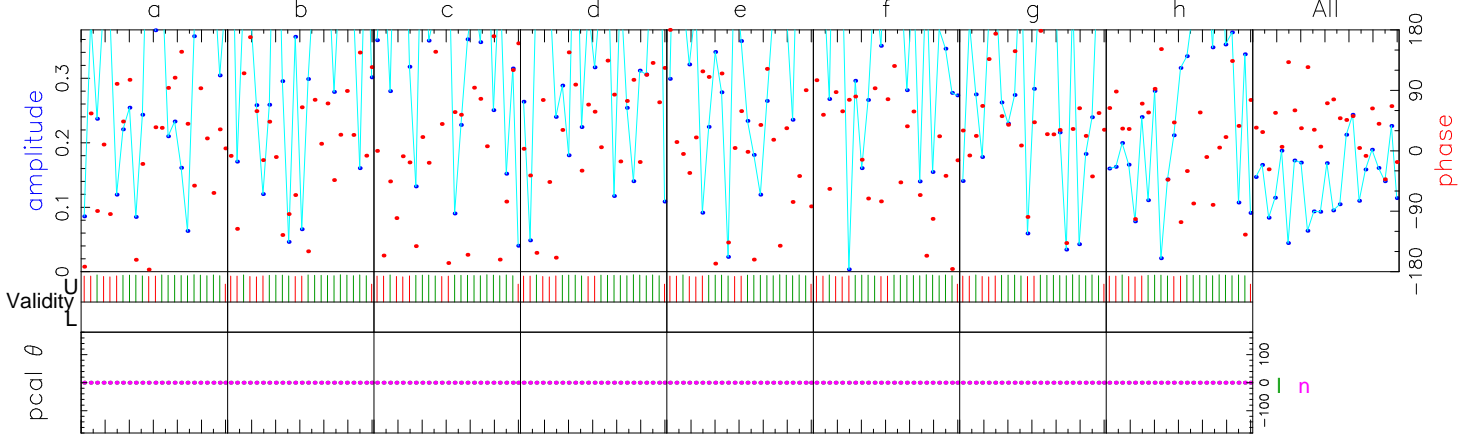
Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, In VLBA_LA - VLBA_NL, fgroup W, pol LR



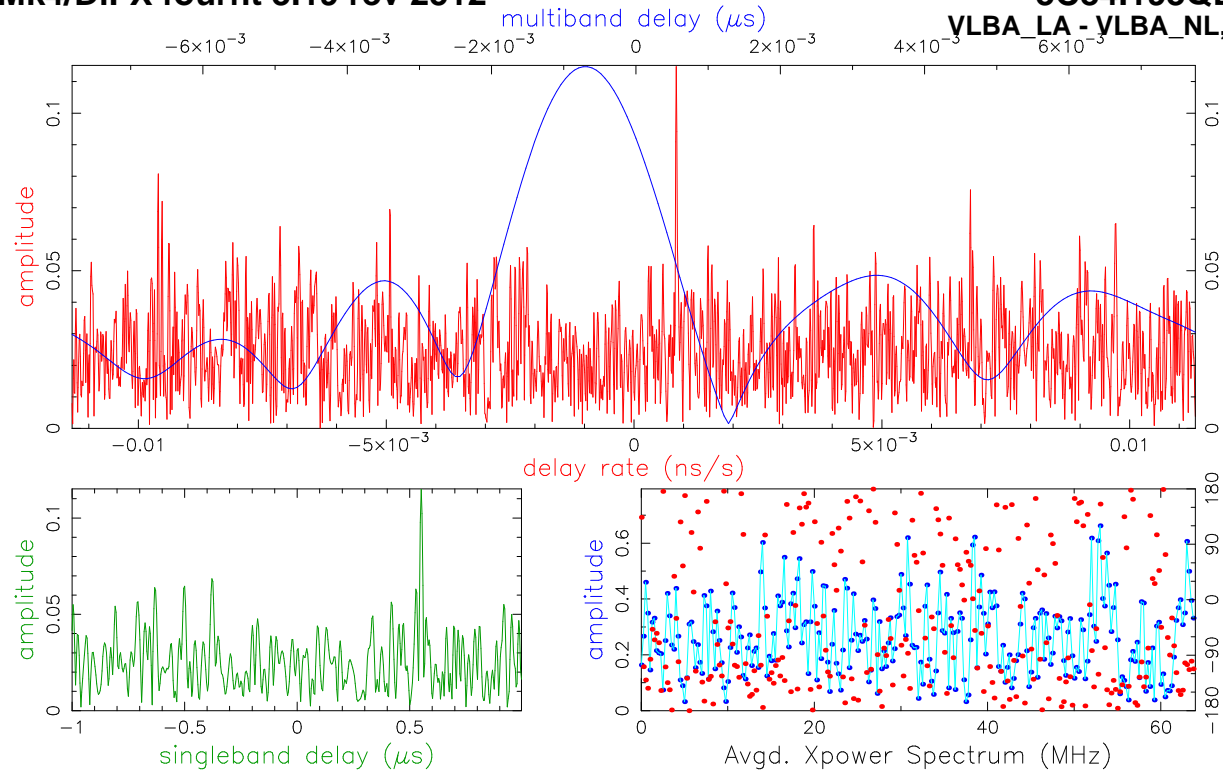
Fringe quality 0
 SNR 6.0
 Int time 345.552
 Amp 0.125
 Phase 37.9
 PFD 4.0e-01
 Delays (us)
 SBD -0.219113
 MBD -0.005323
 Fringe rate (Hz) 0.362335
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build 2020:204:103652
 2020:204:122513
 2020:014:135814
 RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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



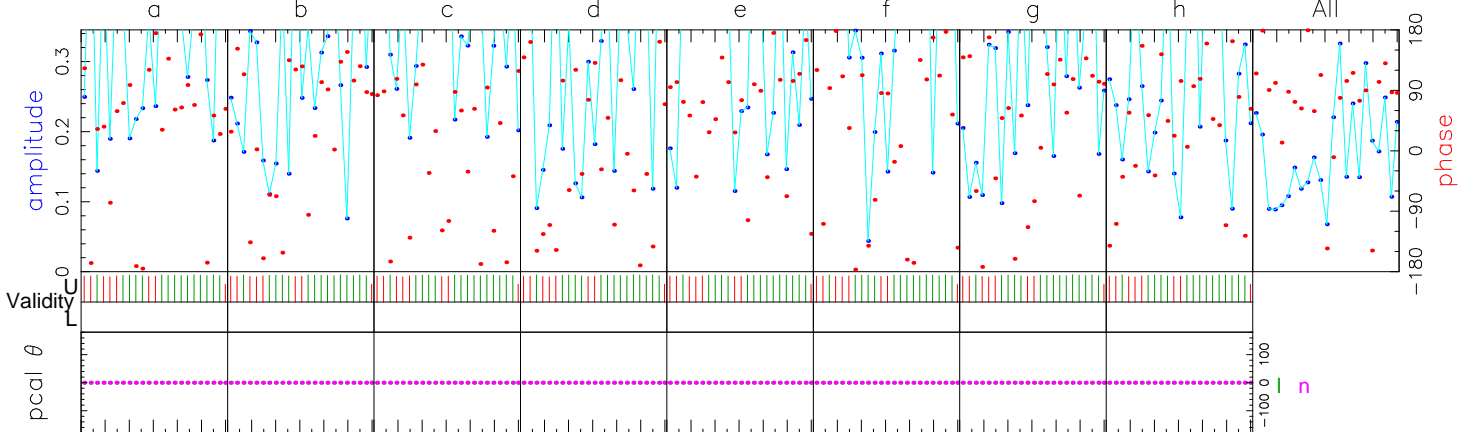
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All			
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0					
l	1000	1000	1000	1000	1000	1000	1000	1000					
n	1000	1000	1000	1000	1000	1000	1000	1000					
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0					
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0					
l	1000	1000	1000	1000	1000	1000	1000	1000					
n	1000	1000	1000	1000	1000	1000	1000	1000					
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL					
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR					
Group delay (usec)(sbd)	-2.41608846065E+03					-2.41586438772E+03			Resid mbdelay (usec)	-5.32293E-03	+/- 1.8E-04		
Sband delay (usec)	-2.41608350097E+03					-3.6055763E+01			Resid sbdelay (usec)	-2.19113E-01	+/- 1.4E-03		
Phase delay (usec)	-2.41586438650E+03					-4.8500001E-07			Resid phdelay (usec)	1.22154E-06	+/- 6.2E-07		
Delay rate (us/s)	2.25814712034E-01					2.25810505688E-01			Resid rate (us/s)	4.20635E-06	+/- 3.0E-09		
Total phase (deg)			-91.2			6.55990036875E-06			Resid phase (deg)	37.9	+/- 19.1		
	RMS	Theor.	Amplitude	0.125 +/- 0.021					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
ph/seg (deg)	42.0	45.8	Search (2048X32)	0.115					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
amp/seg (%)	48.1	79.9	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
ph/frq (deg)	26.4	27.0	Inc. seg. avg.	0.114					Sample rate(MSamp/s): 128		dr window (ns/s)	-0.011 0.011	
amp/frq (%)	32.2	47.1	Inc. frq. avg.	0.121					Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

l: az 66.2 el 52.6 pa -83.2 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1719.674 -70.553 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/In..193QBF Output file: /Exps/c201d/v1/1234/No0057/In.W.148.193QBF



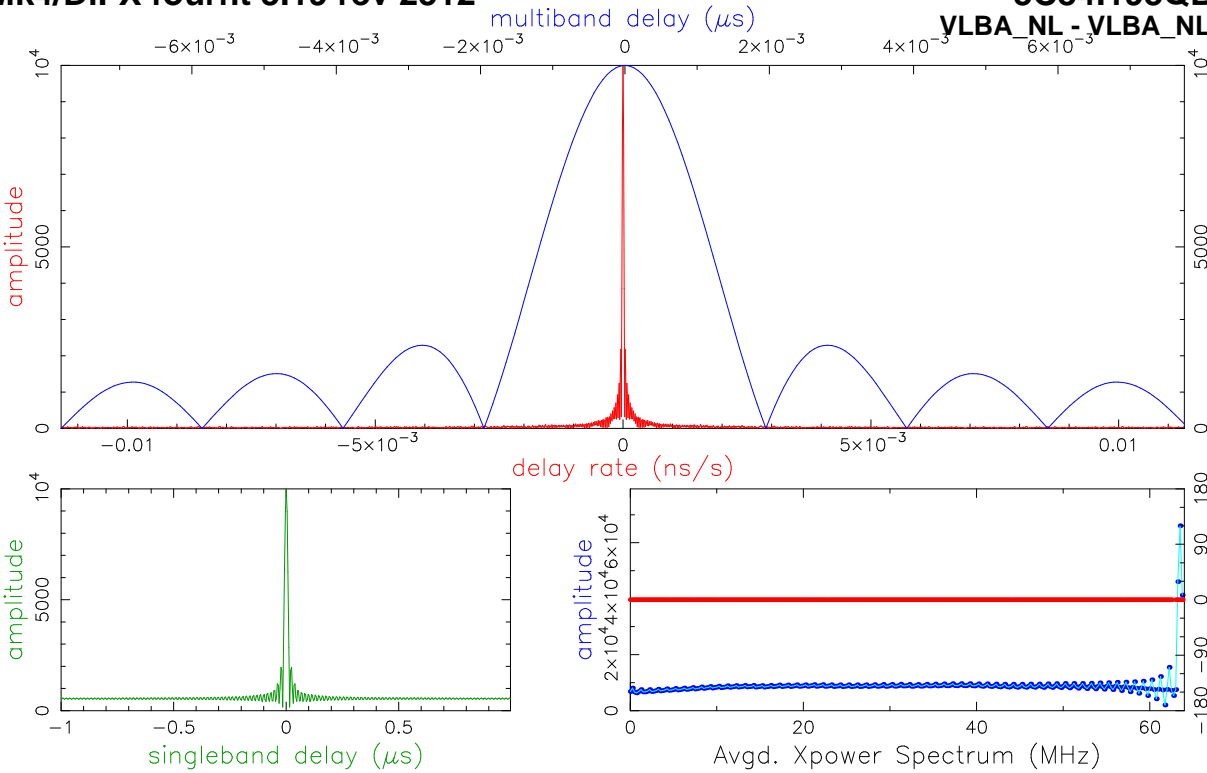
Fringe quality 0
SNR 5.8
Int time 345.554
Amp 0.115
Phase 99.4
PFD 7.3e-01
Delays (us)
SBD 0.551089
MBD -0.000697
Fringe rate (Hz)
0.073278
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122516
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



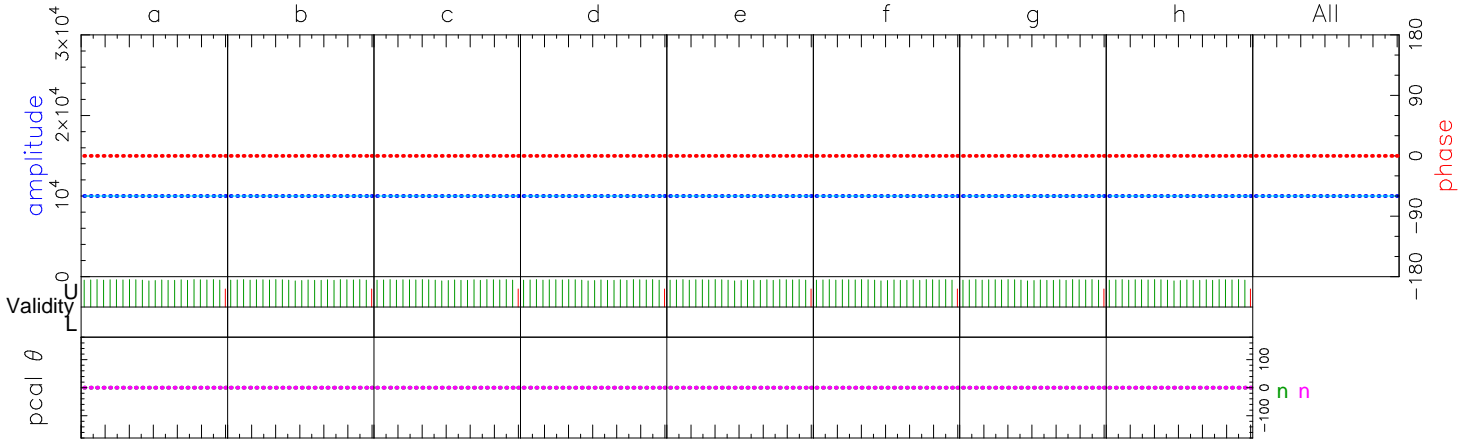
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-2.41531820943E+03									
Sband delay (usec)	-2.41531329872E+03									
Phase delay (usec)	-2.41586438452E+03									
Delay rate (us/s)	2.25811356371E-01									
Total phase (deg)			-29.6							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									99.4	+/- 19.6
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 53.4 47.1 Search (2048X32) 0.112 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 74.9 82.1 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 32.8 27.8 Inc. seg. avg. 0.125 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 46.6 48.4 Inc. frq. avg. 0.112 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
l: az 66.2 el 52.6 pa -83.2 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) -1719.674 -70.553 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/In..193QBF Output file: /Exps/c201d/v1/1234/No0057/In.W.159.193QBF



Fringe quality 9
SNR 514367.8
Int time 353.795
Amp 10000.004
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122518
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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

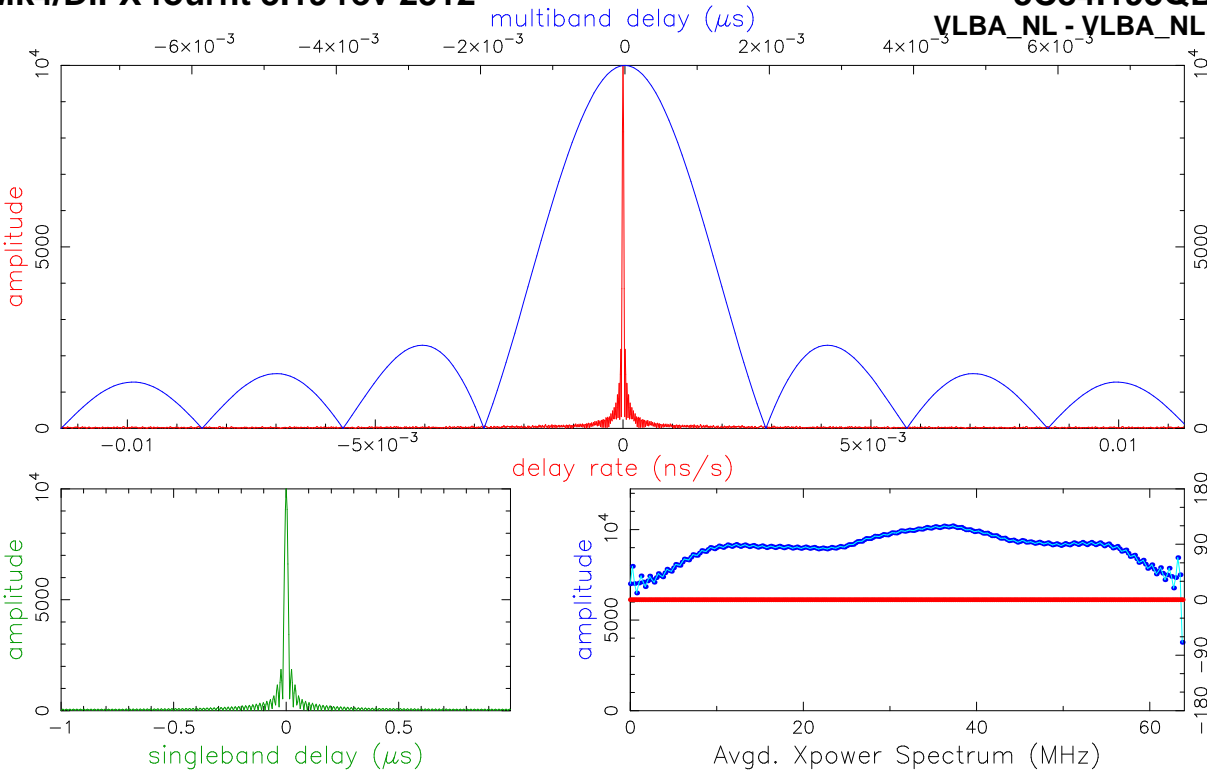


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	Ampl.	10000.0
n	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
n	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
									Tracks	
									Tracks	

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 2.1E-09
Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.7E-08
Phase delay (usec) 2.23751413781E-19 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 2.23751E-19 +/- 7.2E-12
Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 3.5E-14
Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

RMS Theor. Amplitude 10000.004 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 0.0 0.0 Search (2048X32) 10000.003 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.003 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

n: az 79.2 el 65.3 pa -78.1 n: az 79.2 el 65.3 pa -78.1 u,v (vr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/nn..193QBF Output file: /Exps/c201d/v1/1234/No0057/nn.W.165.193QBF

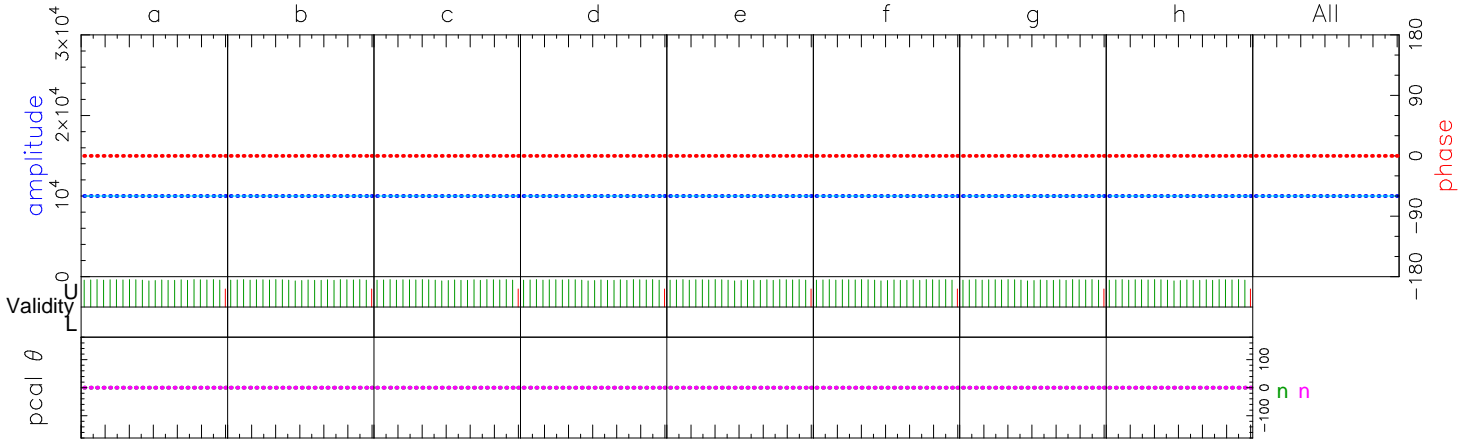


Fringe quality 9

SNR 514367.4
Int time 353.795
Amp 10000.001
Phase -0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122521
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

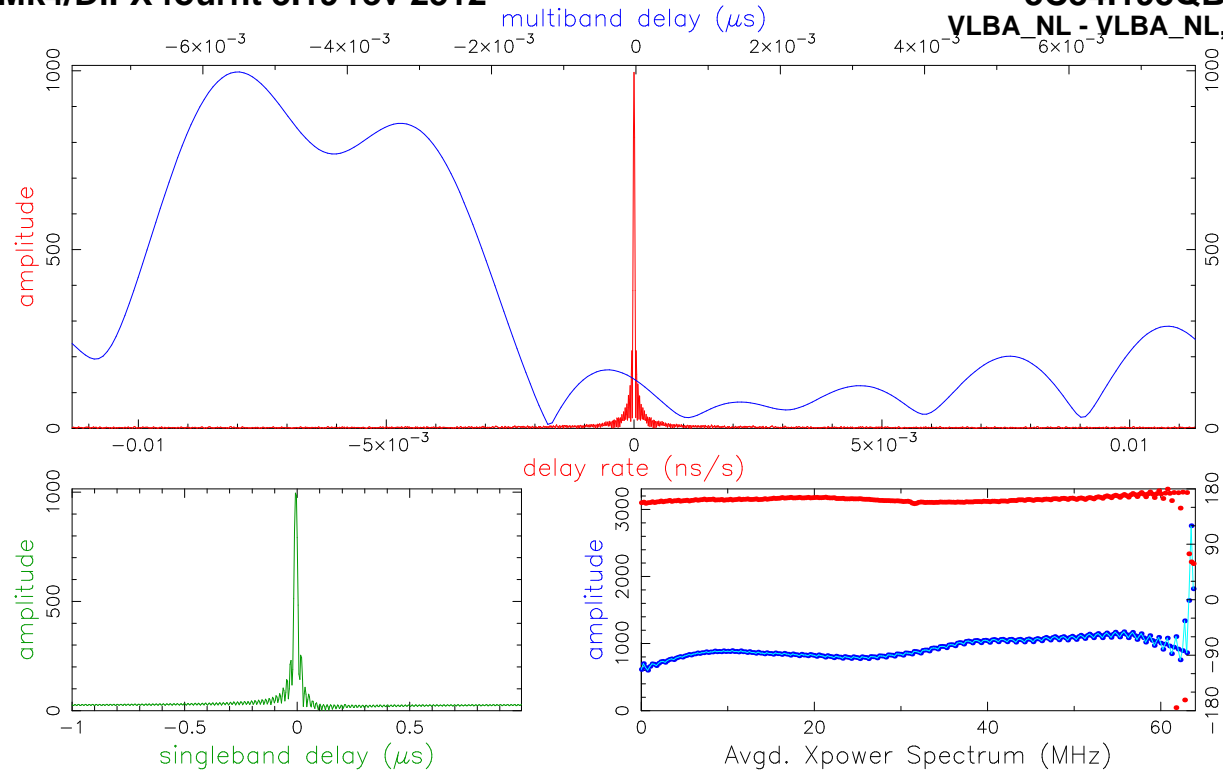
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		+/- 2.1E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		+/- 1.7E-08
Phase delay (usec)	-6.28928928089E-20	-6.28928928089E-20	-6.28928928089E-20	-6.28928928089E-20	-6.28928928089E-20	-6.28928928089E-20	-6.28928928089E-20	-6.28928928089E-20		+/- 7.2E-12
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		+/- 3.5E-14
Total phase (deg)			-0.0							+/- 0.0

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

n: az 79.2 el 65.3 pa -78.1 n: az 79.2 el 65.3 pa -78.1 u,v (vr/asec) 0.000 0.000 simultaneous interpolator

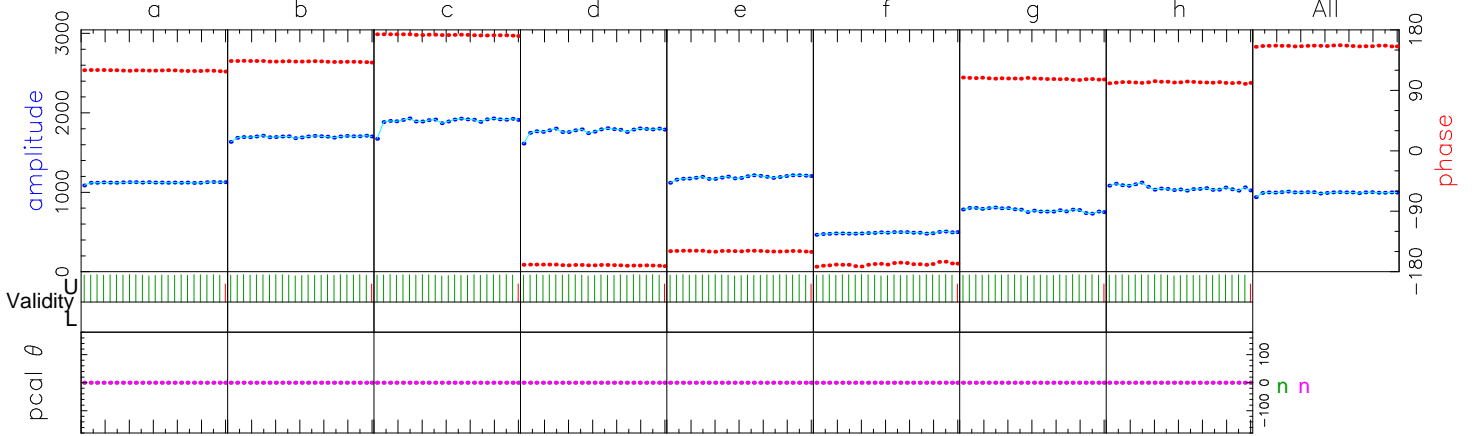


Fringe quality 5

SNR 52217.3
Int time 353.795
Amp 1015.174
Phase 156.0
PFD 0.0e+00
Delays (us)
SBD -0.006072
MBD -0.005455
Fringe rate (Hz)
0.000029
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

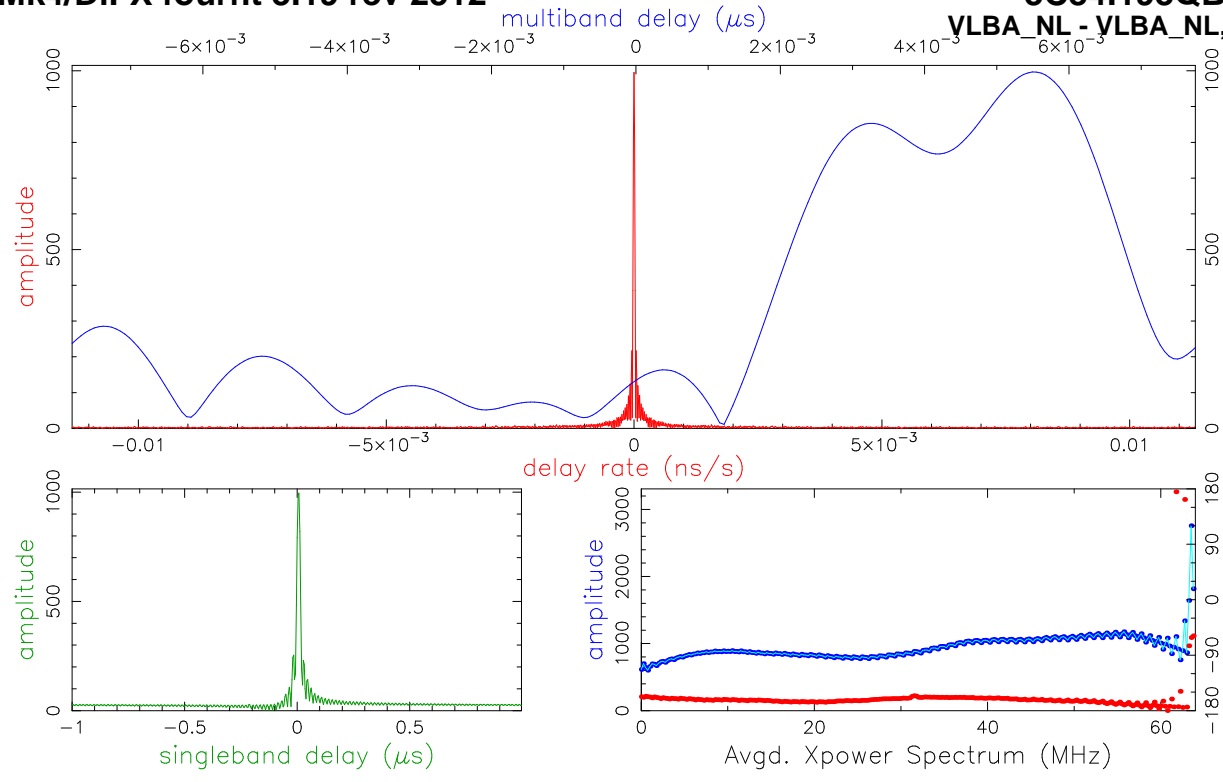
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122525
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	119.3	132.9	172.4	-170.2	-149.3	-168.8	107.2	101.7	Phase	156.0
	1121.9	1697.1	1896.9	1773.0	1187.6	487.9	775.2	1055.7	Ampl.	1249.4
	256.3	255.9	255.8	255.9	256.0	254.8	255.7	255.0	Sbd box	255.4
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	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)	-5.45503125000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-5.45503E-03	+/- 2.1E-08
Sband delay (usec)	-6.07175000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-6.07175E-03	+/- 1.6E-07
Phase delay (usec)	5.02985066991E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		5.02985E-06	+/- 7.1E-11
Delay rate (us/s)	3.35147754063E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		3.35148E-10	+/- 3.4E-13
Total phase (deg)	156.0		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		156.0	+/- 0.0

ph/seg (deg) 0.5 0.0 Theor. Amplitude 1015.174 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 2.3 0.0 Search (2048X32) 989.579 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 46.3 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 51.6 0.0 Inc. seg. avg. 995.598 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 n: az 79.2 el 65.3 pa -78.1 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 simultaneous interpolator

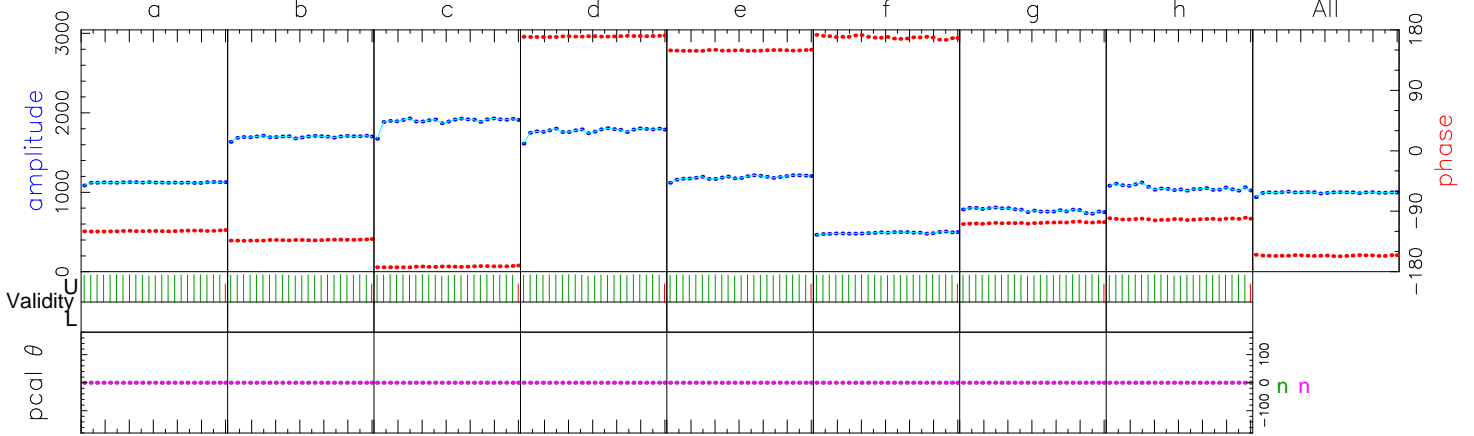


Fringe quality 5

SNR 52217.3
Int time 353.795
Amp 1015.175
Phase -156.0
PFD 0.0e+00
Delays (us)
SBD 0.006072
MBD 0.005455
Fringe rate (Hz)
-0.000029
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

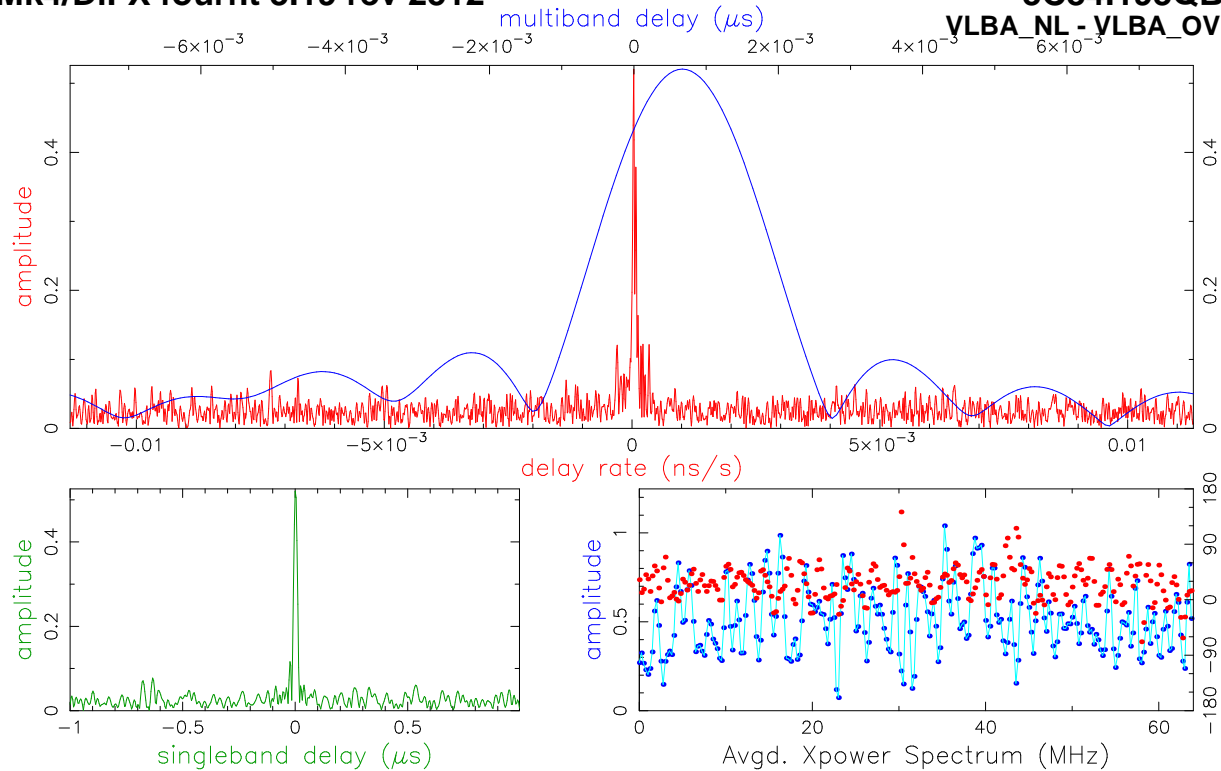
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122529
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-119.3	-132.9	-172.4	170.2	149.3	168.8	-107.2	-101.7	Phase	-156.0
	1121.9	1697.1	1896.9	1773.0	1187.6	487.9	775.2	1055.7	Ampl.	1249.4
	257.7	258.1	258.2	258.1	258.0	259.2	258.3	259.0	Sbd box	258.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
n	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)	5.45503125000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		5.45503E-03	+/- 2.1E-08
Sband delay (usec)	6.07175000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		6.07175E-03	+/- 1.6E-07
Phase delay (usec)	-5.02985066986E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-5.02985E-06	+/- 7.1E-11
Delay rate (us/s)	-3.35147754063E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-3.35148E-10	+/- 3.4E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-156.0	+/- 0.0

ph/seg (deg) 0.5 0.0 Theor. Amplitude 1015.175 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 2.3 0.0 Search (2048X32) 989.580 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 46.3 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 51.6 0.0 Inc. seg. avg. 995.599 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 n: az 79.2 el 65.3 pa -78.1 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 simultaneous interpolator

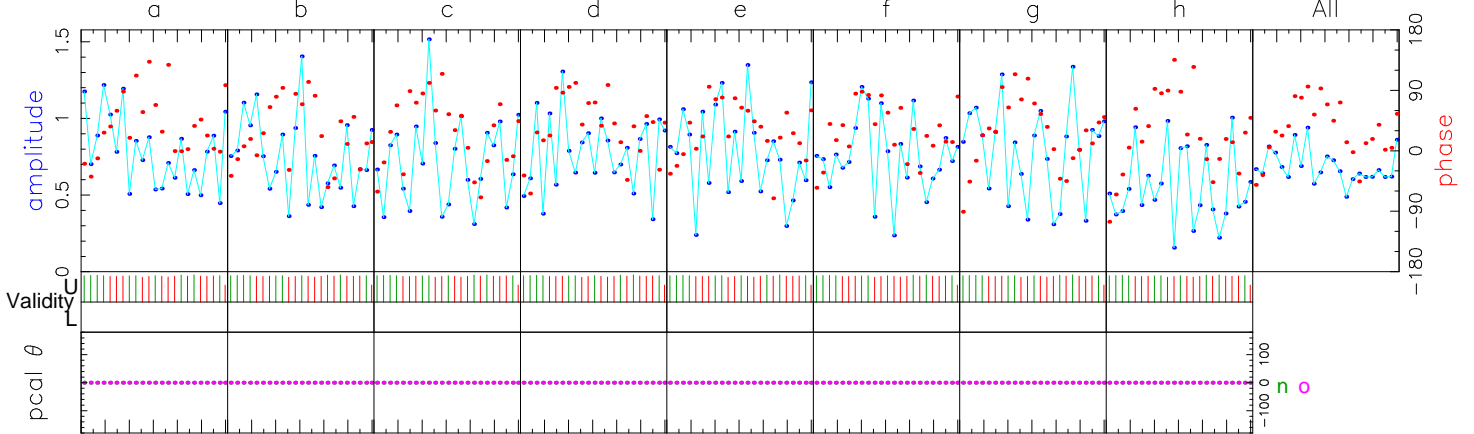


Fringe quality 8

SNR 26.5
 Int time 339.978
 Amp 0.526
 Phase 33.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.001314
 MBD 0.000701
 Fringe rate (Hz) 0.003086
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

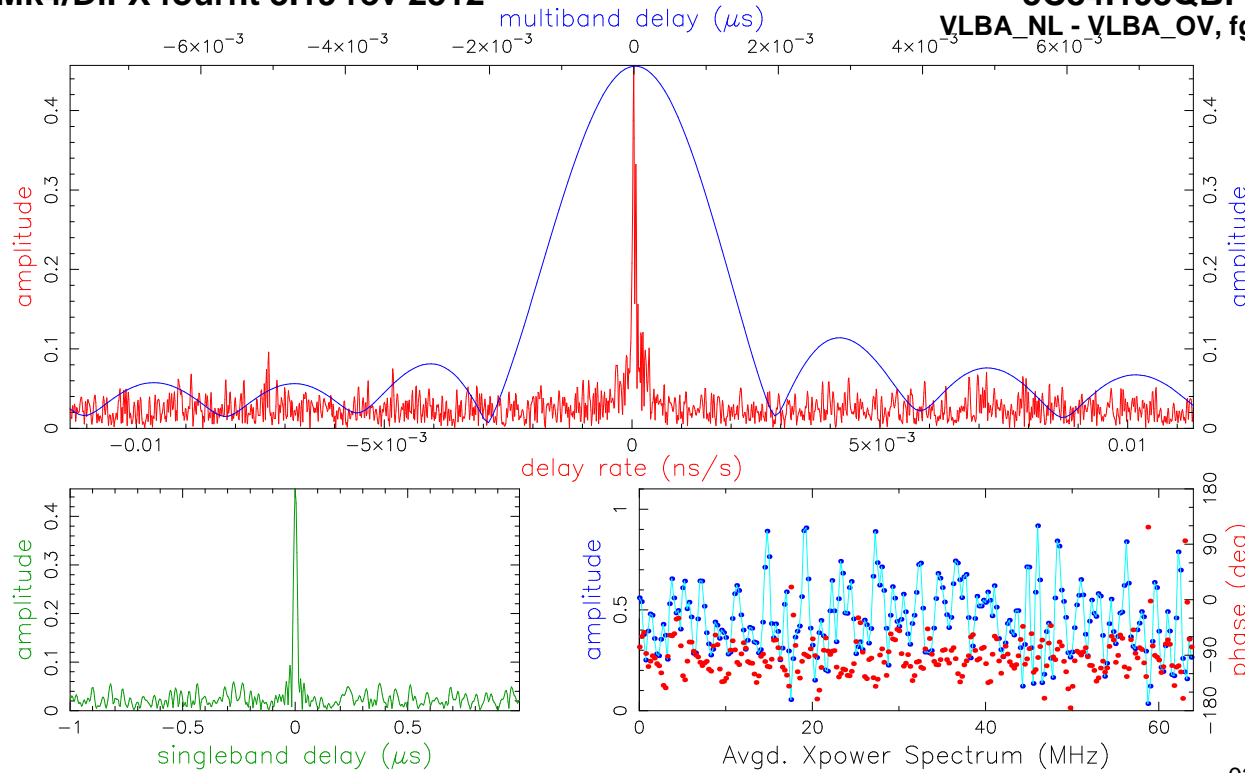
Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122518
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
n	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	0:0
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	0:0
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000
o	1000	1000	1000	1000	1000	1000	1000	1000		1000
n	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)	4.39797498882E+03				4.39797428744E+03				Resid mbdelay (usec)	7.01376E-04 +/- 4.1E-05
Sband delay (usec)	4.39797560144E+03				1.2215940E+01				Resid sbdelay (usec)	1.31400E-03 +/- 3.2E-04
Phase delay (usec)	4.39797428851E+03				1.3299997E-07				Resid phdelay (usec)	1.06807E-06 +/- 1.4E-07
Delay rate (us/s)	-3.29195034838E-01				-3.29195070669E-01				Resid rate (us/s)	3.58311E-08 +/- 6.7E-10
Total phase (deg)			76.4		-1.87508707820E-05				Resid phase (deg)	33.1 +/- 4.3

ph/seg (deg) 41.4 10.4 Search (2048X32) 0.508 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 36.2 18.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 6.2 6.1 Inc. seg. avg. 0.675 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 13.8 10.7 Inc. frq. avg. 0.520 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 79.2 el 65.3 pa -78.1 o: az 65.0 el 44.4 pa -74.6 u,v (fr/asec) 2496.352 -919.320 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/no..193QBF Output file: /Exps/c201d/v1/1234/No0057/no.W.167.193QBF

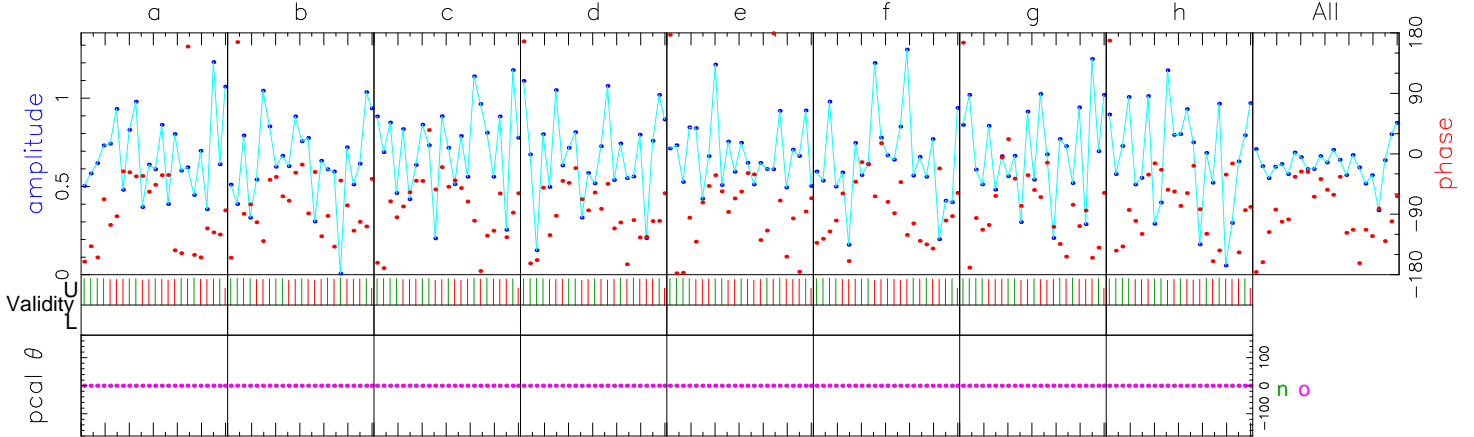


Fringe quality 9

SNR 23.0
 Int time 339.978
 Amp 0.457
 Phase -89.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.000608
 MBD 0.000034
 Fringe rate (Hz) 0.003077
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

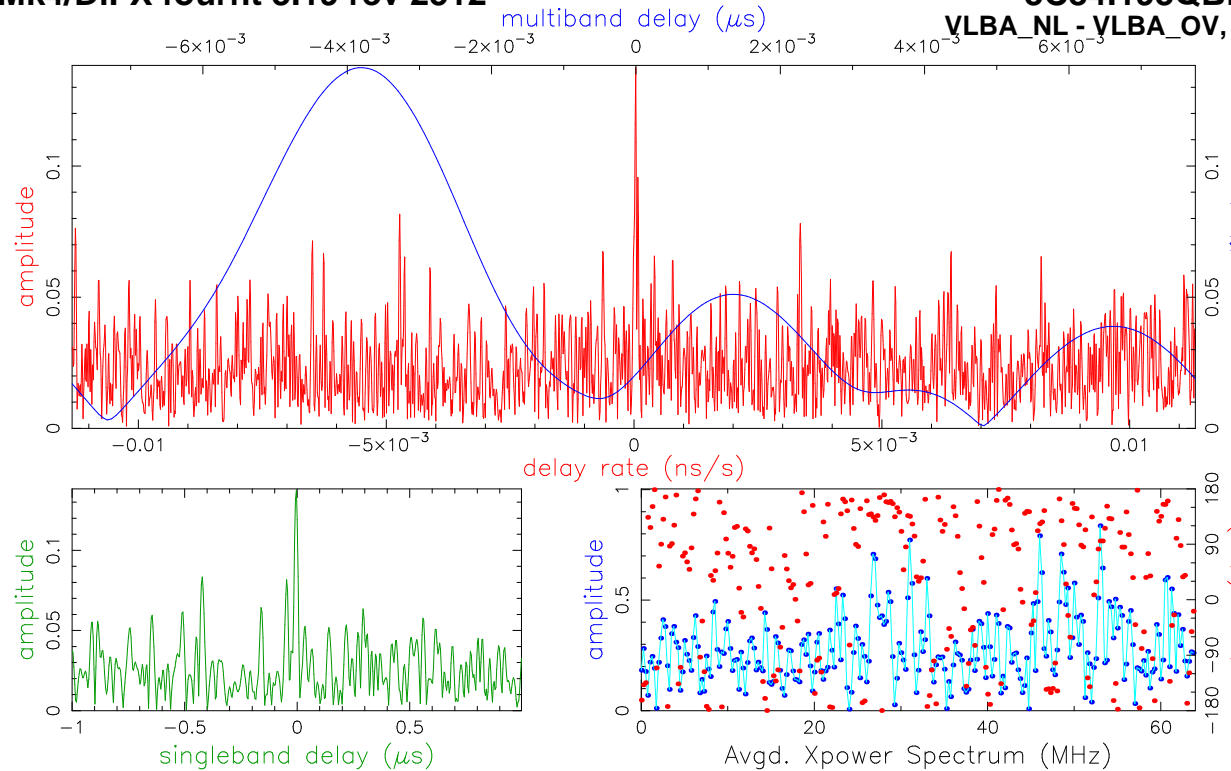
Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build 2020:204:103652
 2020:204:122521
 2020:014:135814
 RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	4.39797432126E+03				4.39797428744E+03				3.38137E-05	+/- 4.7E-05
Sband delay (usec)	4.39797489519E+03				1.2215940E+01				6.07750E-04	+/- 3.7E-04
Phase delay (usec)	4.39797428457E+03				1.3299997E-07				-2.87293E-06	+/- 1.6E-07
Delay rate (us/s)	-3.29195034946E-01				-3.29195070669E-01				3.57226E-08	+/- 7.7E-10
Total phase (deg)			-45.8		-1.87508707820E-05				-89.1	+/- 5.0
pcal mode:	MANUAL, MANUAL				MANUAL, MANUAL				PC period (AP's) 5, 5	
pcal rate:	0.000E+00, 0.000E+00 (us/s)				0.000E+00, 0.000E+00 (us/s)				sb window (us) -1.000 1.000	
Bits/sample:	2x2				2x2				SampCntNorm: enabled mb window (us) -0.008 0.008	
Sample rate (MSamp/s):	128				128				dr window (ns/s) -0.011 0.011	
Data rate (Mb/s):	2048				2048				ion window (TEC) 0.00 0.00	
nlags:	256				256				t_cohere infinite	

ph/seg (deg) 43.9 11.9 Search (2048X32) 0.451 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 42.4 20.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 6.7 7.0 Inc. seg. avg. 0.614 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 6.0 12.3 Inc. frq. avg. 0.455 Sample rate (MSamp/s): 128 dr window (ns/s) -0.011 0.011
 n: az 79.2 el 65.3 pa -78.1 o: az 65.0 el 44.4 pa -74.6 u,v (fr/asec) 2496.352 -919.320 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/no..193QBF Output file: /Exps/c201d/v1/1234/No0057/no.W.183.193QBF simultaneous interpolator

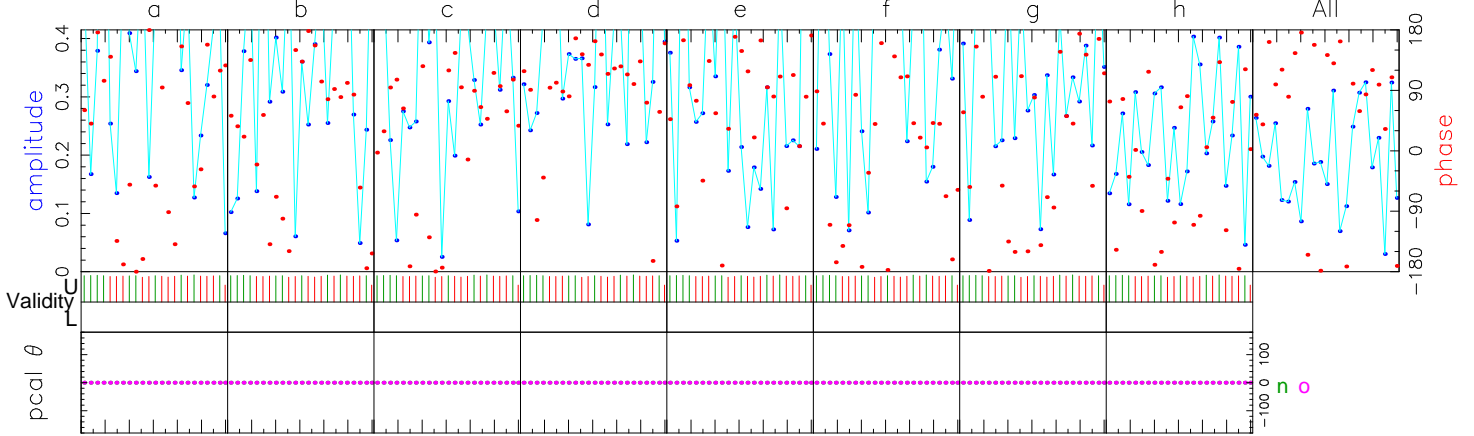


Fringe quality 0

SNR 7.0
 Int time 339.979
 Amp 0.138
 Phase 116.5
 PFD 9.1e-04
 Delays (us)
 SBD -0.004935
 MBD -0.003829
 Fringe rate (Hz)
 0.002866
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

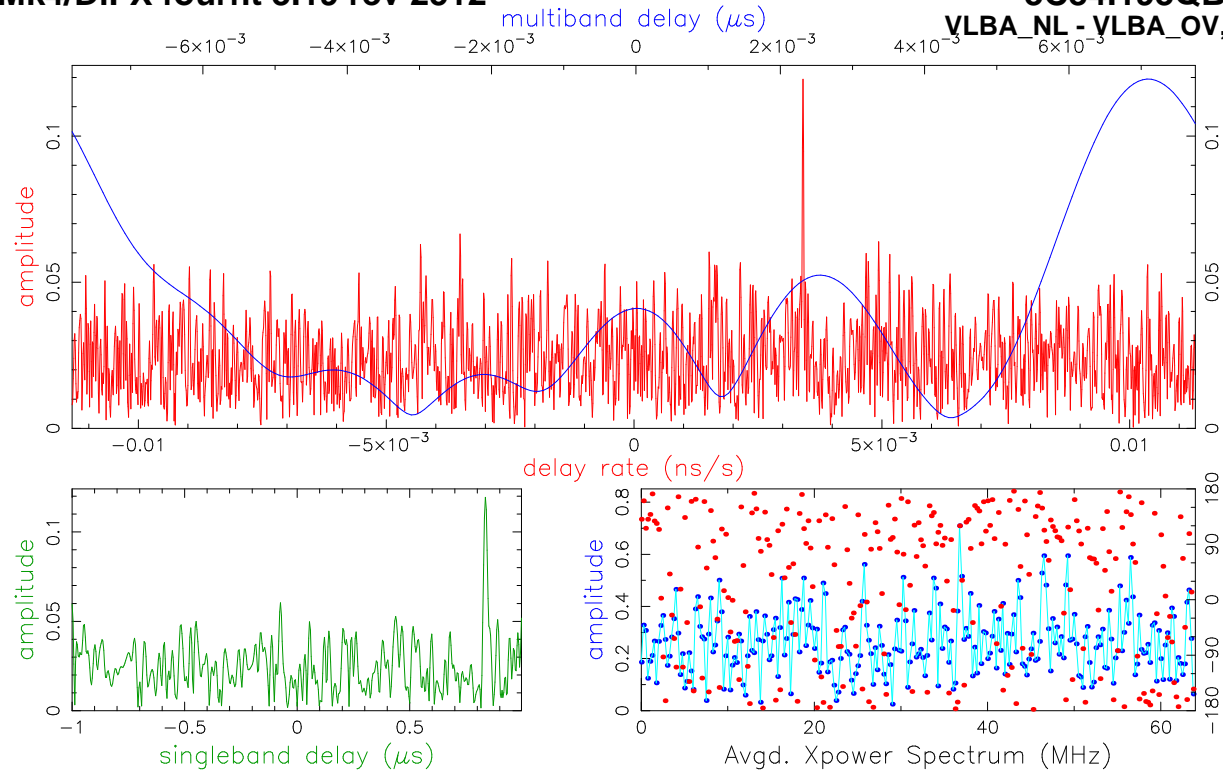
Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122525
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

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



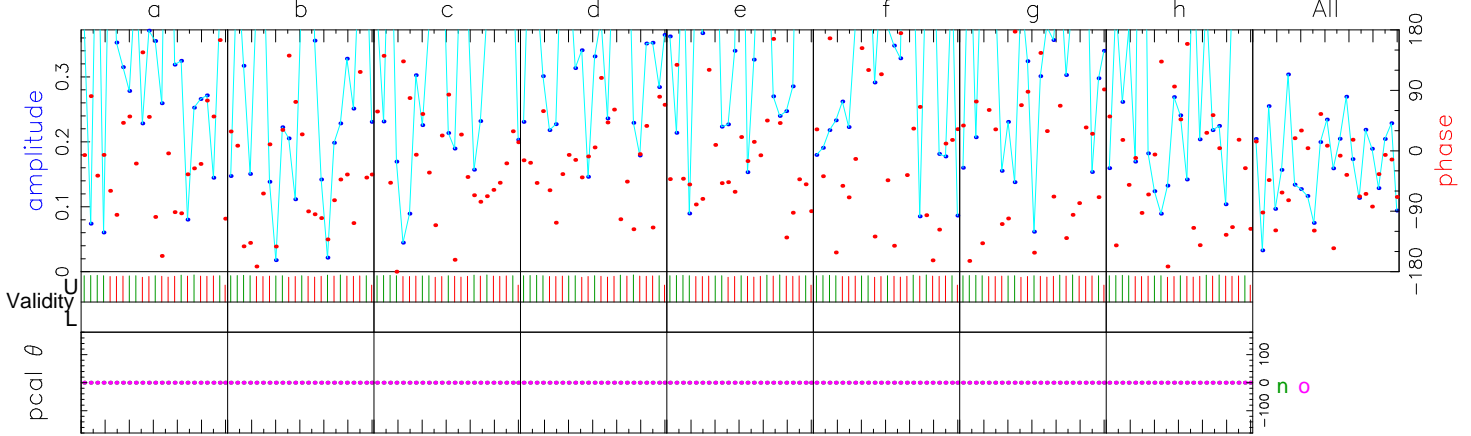
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	147.3	115.1	86.9	114.6	116.8	77.3	144.1	-166.3	Phase	116.5
	0.1	0.1	0.2	0.3	0.2	0.1	0.1	0.0	Ampl.	0.1
	414.8	389.3	404.3	256.0	171.8	382.3	58.1	114.2	Sbd box	255.7
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.39797045798E+03		Apriori delay (usec)		4.39797428744E+03		Resid mbdelay (usec)		-3.82947E-03	+/- 1.6E-04
Sband delay (usec)	4.39796935244E+03		Apriori clock (usec)		1.2215940E+01		Resid sbdelay (usec)		-4.93500E-03	+/- 1.2E-03
Phase delay (usec)	4.39797429120E+03		Apriori clockrate (us/s)		1.3299997E-07		Resid phdelay (usec)		3.75766E-06	+/- 5.3E-07
Delay rate (us/s)	-3.29195037397E-01		Apriori rate (us/s)		-3.29195070669E-01		Resid rate (us/s)		3.32717E-08	+/- 2.5E-09
Total phase (deg)	159.8		Apriori accel (us/s/s)		-1.87508707820E-05		Resid phase (deg)		116.5	+/- 16.4

ph/seg (deg) 49.5 39.4 Search (2048X32) 0.137 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 73.2 68.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 41.0 23.2 Inc. seg. avg. 0.158 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 54.0 40.5 Inc. frq. avg. 0.138 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 79.2 el 65.3 pa -78.1 o: az 65.0 el 44.4 pa -74.6 u,v (fr/asec) 2496.352 -919.320 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/no..193QBF Output file: /Exps/c201d/v1/1234/No0057/no.W.200.193QBF



Fringe quality 0
 SNR 6.0
 Int time 339.978
 Amp 0.124
 Phase -30.0
 PFD 3.5e-01
 Delays (us)
 SBD 0.836416
 MBD 0.007130
 Fringe rate (Hz) 0.293998
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122530
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

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

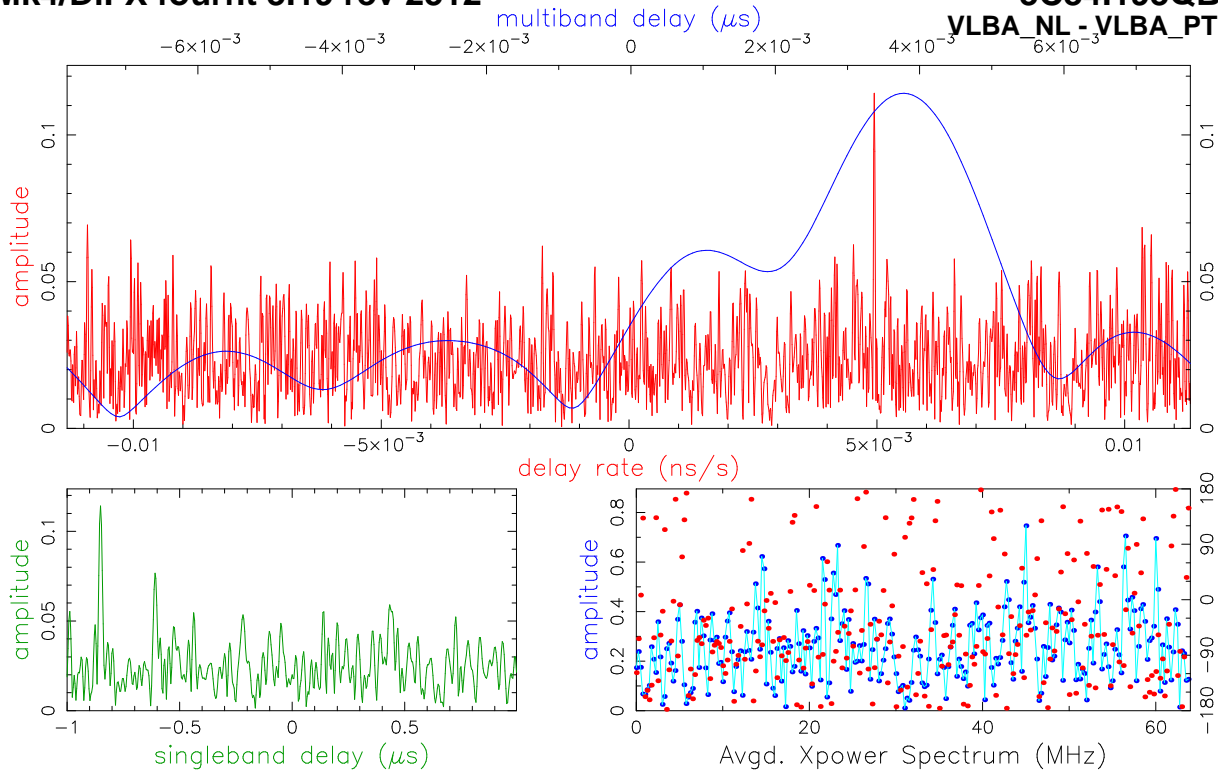


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-30.5	-60.0	-20.2	-14.7	-21.9	-90.5	27.7	-56.4		Phase
	0.2	0.1	0.2	0.2	0.2	0.0	0.0	0.1		Ampl.
	472.3	168.5	484.0	471.2	470.4	311.2	270.8	312.9		Sbd box
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		APs used
n	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
o	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
n	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
o	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
n	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)	4.39880954255E+03		Apriori delay (usec)		4.39797428744E+03		Resid mbdelay (usec)		7.13010E-03	+/- 1.8E-04
Sband delay (usec)	4.39881070319E+03		Apriori clock (usec)		1.2215940E+01		Resid sbdelay (usec)		8.36416E-01	+/- 1.4E-03
Phase delay (usec)	4.39797428648E+03		Apriori clockrate (us/s)		1.3299997E-07		Resid phdelay (usec)		-9.67346E-07	+/- 6.1E-07
Delay rate (us/s)	-3.29191657649E-01		Apriori rate (us/s)		-3.29195070669E-01		Resid rate (us/s)		3.41302E-06	+/- 2.9E-09
Total phase (deg)	13.3		Apriori accel (us/s/s)		-1.87508707820E-05		Resid phase (deg)		-30.0	+/- 19.0

ph/seg (deg) 52.8 45.6 45.6 Search (2048X32) 0.115 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 70.1 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) 38.7 26.9 Inc. seg. avg. 0.135 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 52.9 46.9 Inc. frq. avg. 0.120 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 79.2 el 65.3 pa -78.1 o: az 65.0 el 44.4 pa -74.6 u,v (fr/asec) 2496.352 -919.320 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/no..193QBF Output file: /Exps/c201d/v1/1234/No0057/no.W.221.193QBF

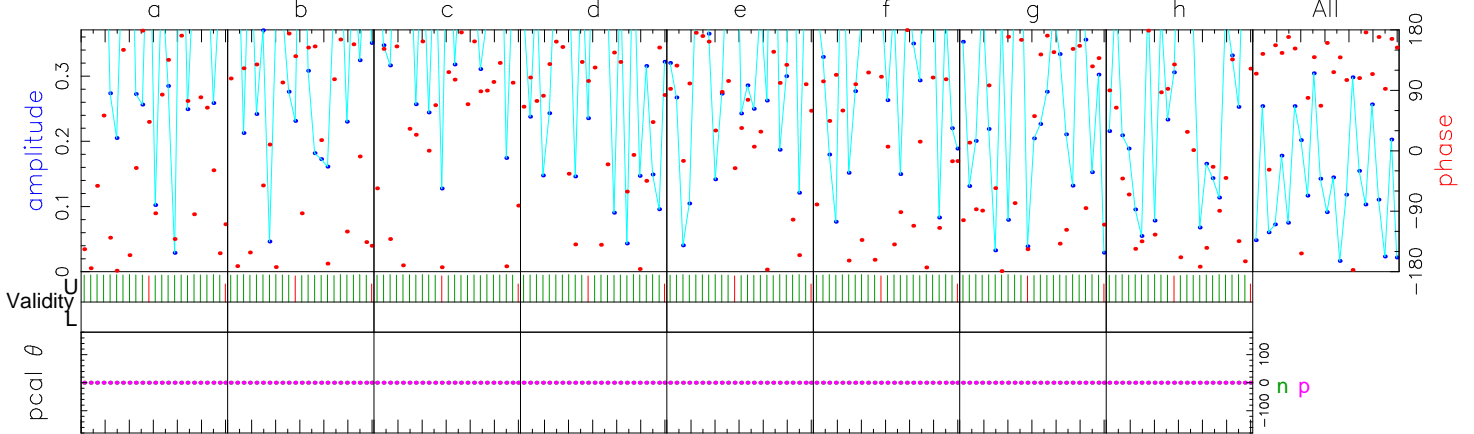
Mk4/DiFX fourfit 3.19 rev 2512

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



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

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

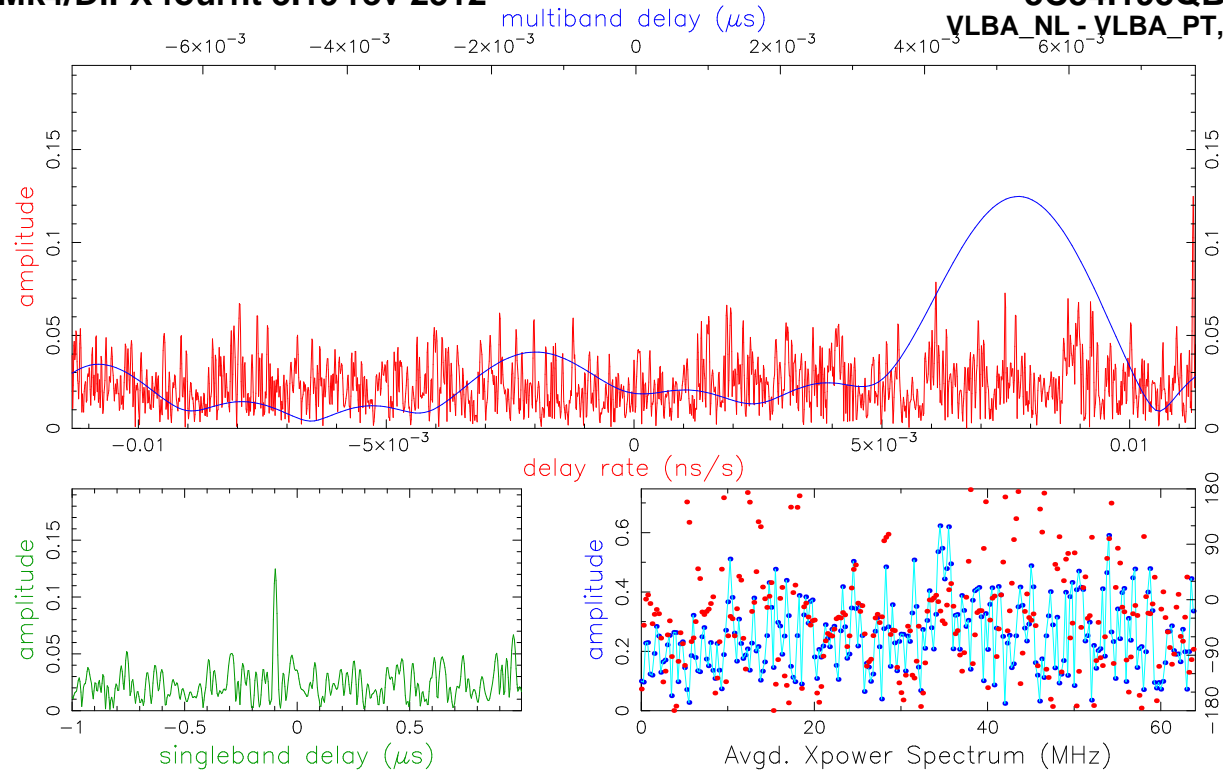


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	2.85033752893E+03					2.85119313001E+03			3.77392E-03	+/- 1.8E-04
Sband delay (usec)	2.85034142676E+03					1.5024176E+01			-8.51703E-01	+/- 1.5E-03
Phase delay (usec)	2.85119313465E+03					1.2999999E-07			4.63866E-06	+/- 6.3E-07
Delay rate (us/s)	-2.59349537756E-01					-2.59354497367E-01			4.95961E-06	+/- 3.0E-09
Total phase (deg)			222.9			-7.41252318574E-06			143.8	+/- 19.5
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 50.2 46.8 Amplitude 0.124 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 79.6 81.7 Search (2048X32) 0.113 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 32.3 27.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 45.2 48.2 Inc. seg. avg. 0.116 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 n: az 79.2 el 65.3 pa -78.1 p: az 64.2 el 50.6 pa -84.3 u,v (fr/asec) 1975.165 148.713 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/np..193QBF Output file: /Exps/c201d/v1/1234/No0057/np.W.171.193QBF simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

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

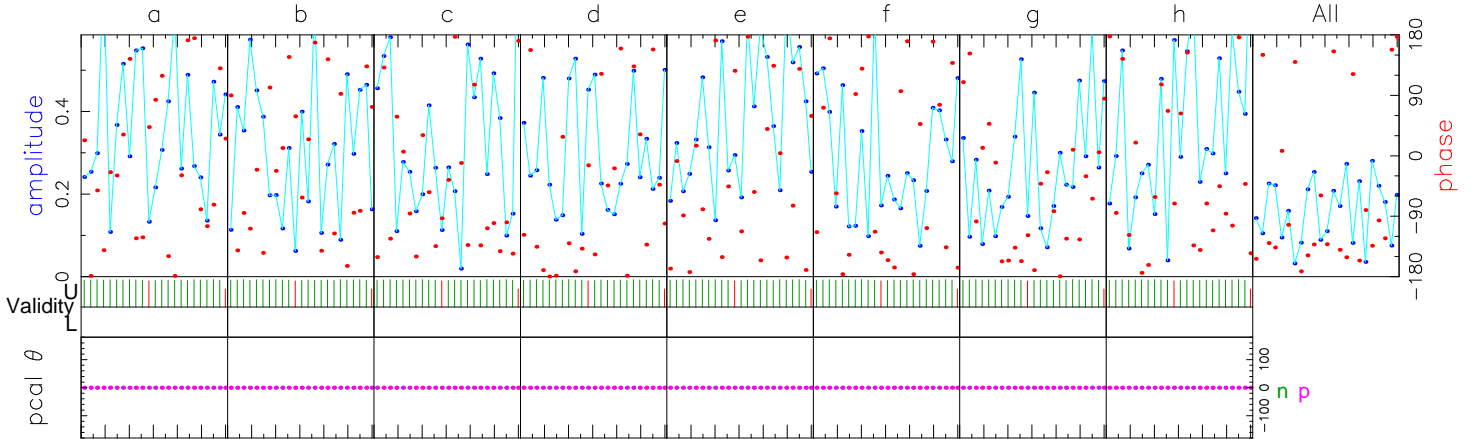


Fringe quality 0

SNR 6.4
Int time 353.058
Amp 0.195
Phase -143.4
PFD 3.9e-02
Delays (us)
SBD -0.097451
MBD 0.005296
Fringe rate (Hz) 0.972828
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122522
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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

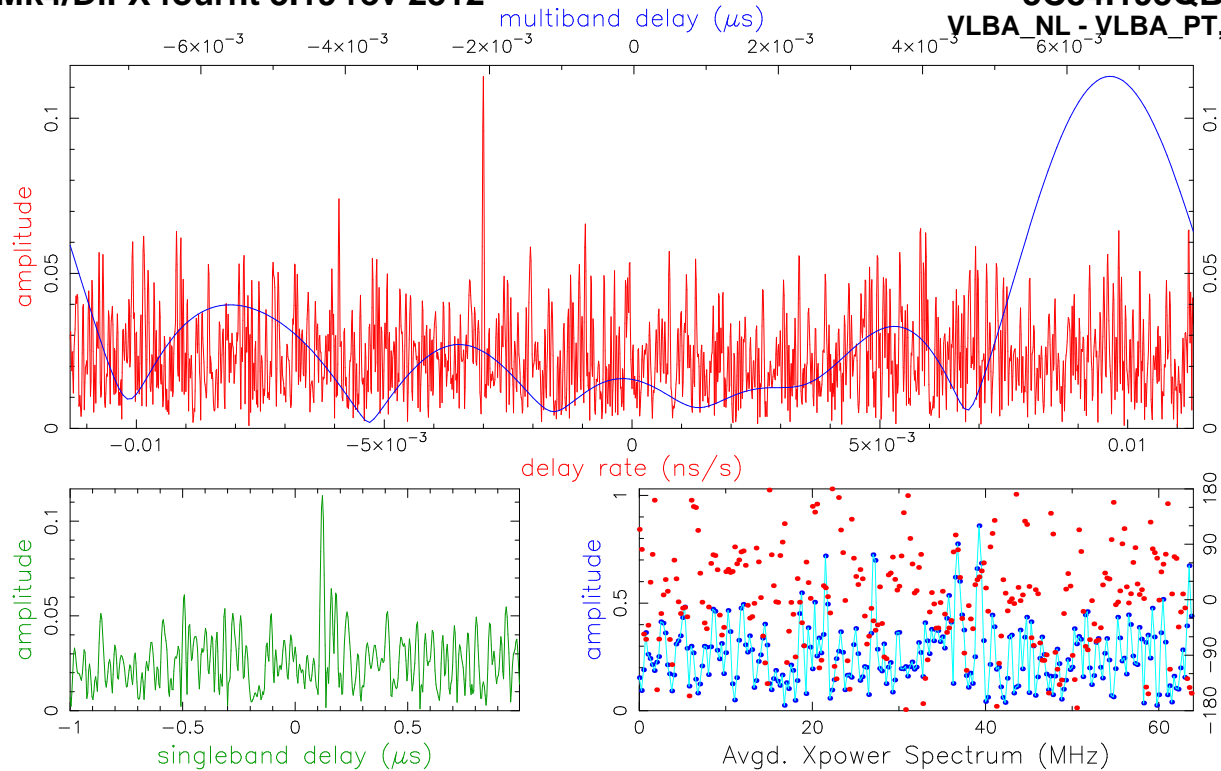


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

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

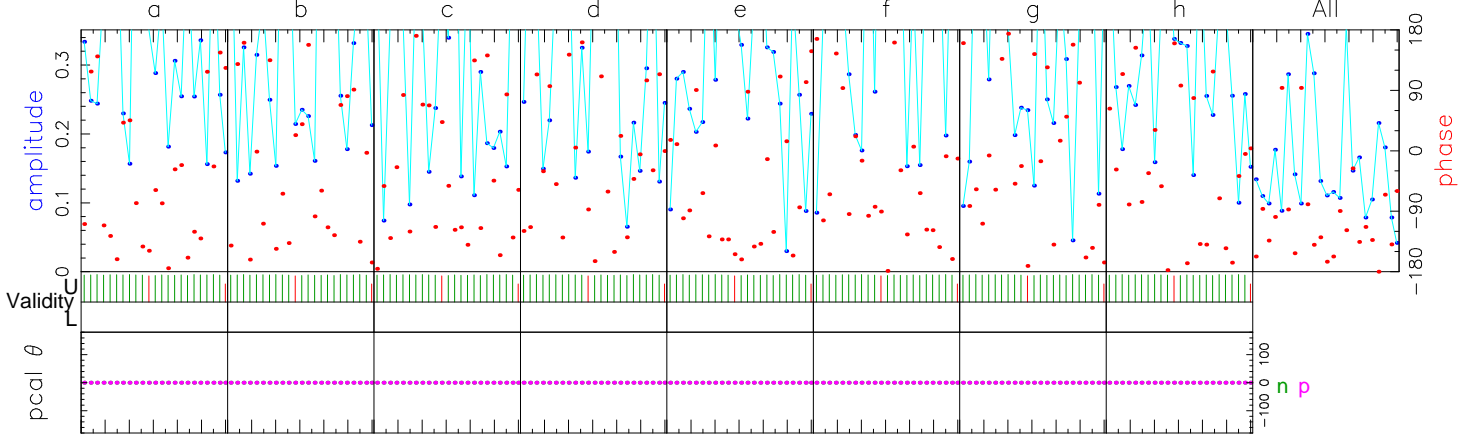
Mk4/DiFX fourfit 3.19 rev 2512

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

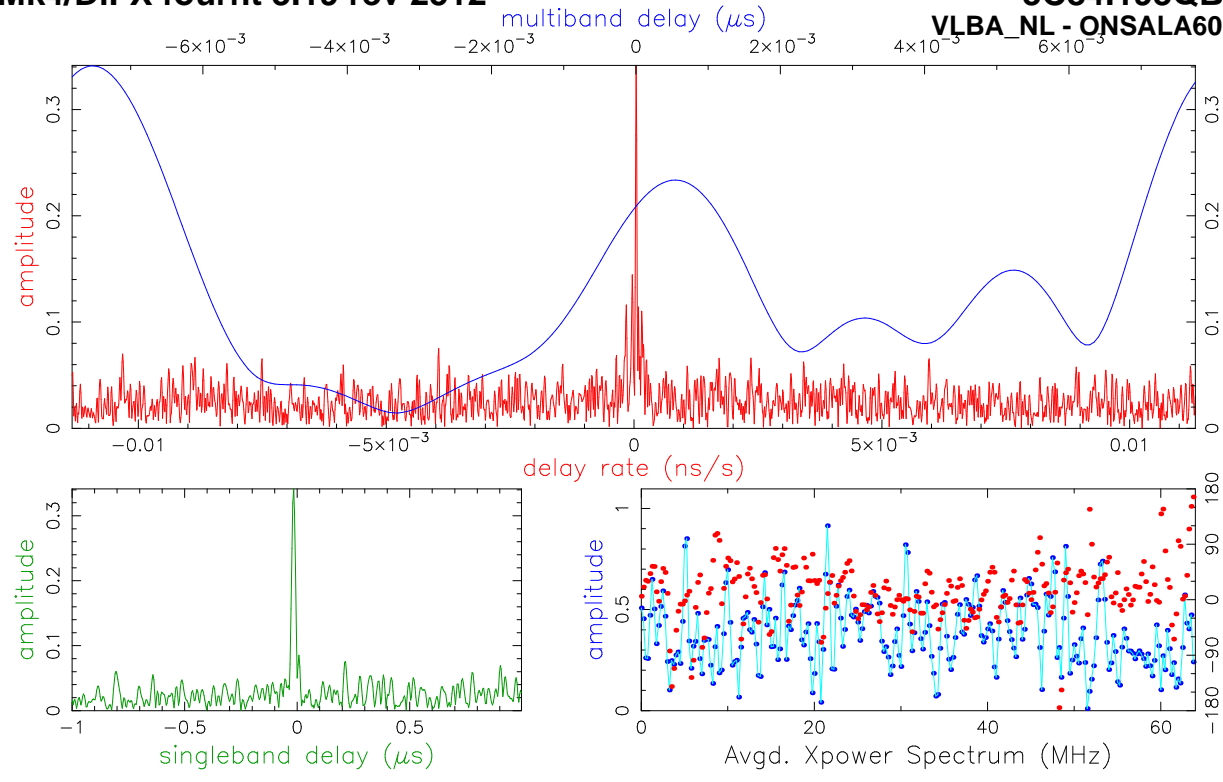


Fringe quality 0
SNR 5.8
Int time 353.058
Amp 0.117
Phase -118.4
PFD 7.3e-01
Delays (us)
SBD 0.120499
MBD 0.006558
Fringe rate (Hz)
-0.258535
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652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

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0			
n	1000	1000	1000	1000	1000	1000	1000	1000			
p	1000	1000	1000	1000	1000	1000	1000	1000			
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
n	1000	1000	1000	1000	1000	1000	1000	1000			
p	1000	1000	1000	1000	1000	1000	1000	1000			
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)	2.85130906276E+03					2.85119313001E+03			6.55775E-03	+/- 1.9E-04	
Sband delay (usec)	2.85131362901E+03					1.5024176E+01			1.20499E-01	+/- 1.5E-03	
Phase delay (usec)	2.85119312620E+03					1.2999999E-07			-3.81763E-06	+/- 6.3E-07	
Delay rate (us/s)	-2.59357498697E-01					-2.59354497367E-01			-3.00133E-06	+/- 3.0E-09	
Total phase (deg)			-39.4			-7.41252318574E-06			-118.4	+/- 19.6	
	RMS	Theor.	Amplitude	0.117 +/- 0.020		PCal mode: MANUAL, MANUAL			PC period (AP's) 5, 5		
ph/seg (deg)	57.4	47.0	Search (2048X32)	0.111		PCal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us)	-1.000 1.000	
amp/seg (%)	83.7	82.1	Interp.	0.000		Bits/sample: 2x2			SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	13.4	27.7	Inc. seg. avg.	0.122		Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011 0.011
amp/frq (%)	37.2	48.4	Inc. frq. avg.	0.106		Data rate(Mb/s): 2048				ion window (TEC)	0.00 0.00
n: az 79.2 el 65.3 pa -78.1			p: az 64.2 el 50.6 pa -84.3			u,v (fr/asec) 1975.165 148.713					simultaneous interpolator

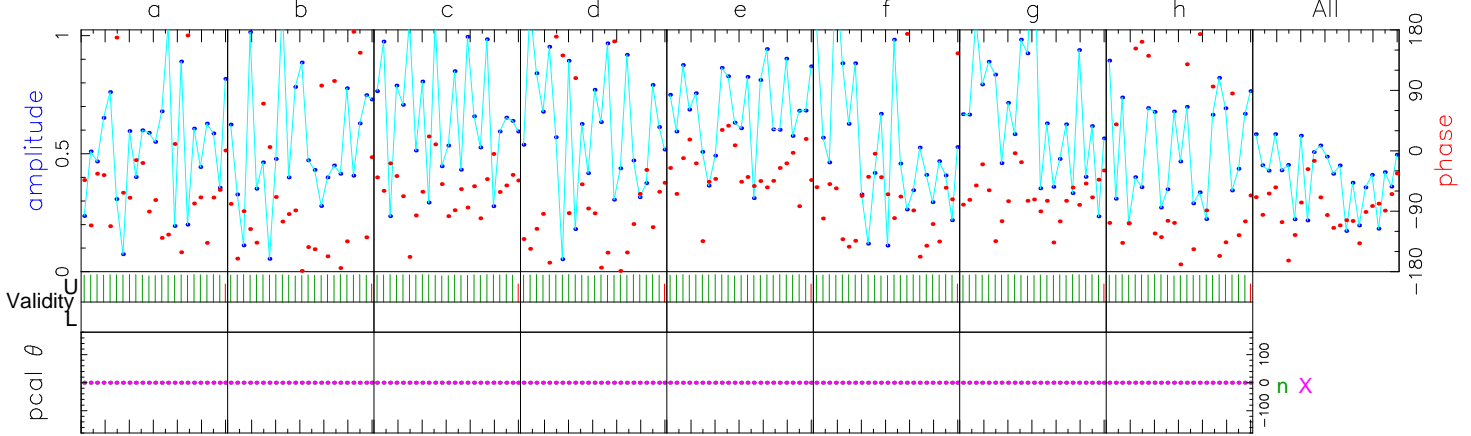


Fringe quality 7

SNR 17.6
Int time 353.761
Amp 0.342
Phase -83.5
PFD 0.0e+00
Delays (us)
SBD -0.016106
MBD -0.007542
Fringe rate (Hz) 0.003690
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122519
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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

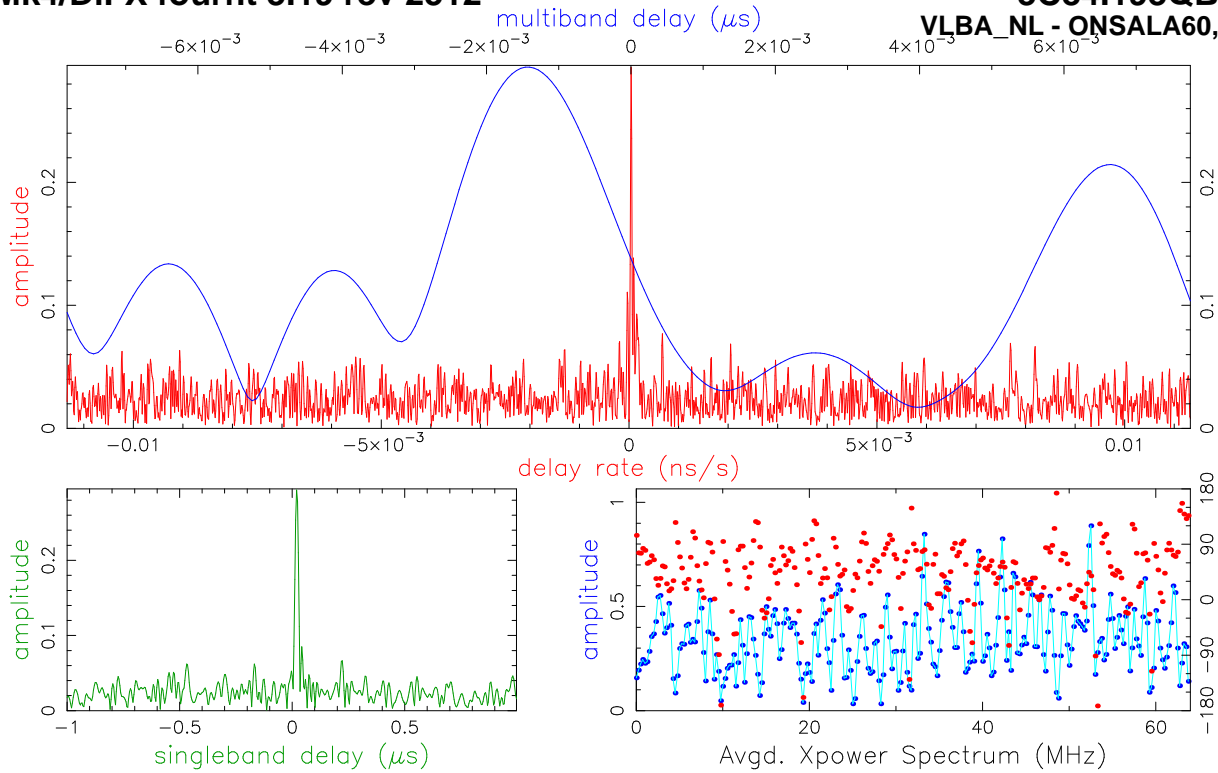


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-85.6	-133.3	-58.8	-123.3	-25.5	-93.1	-67.1	-147.9	Phase	-83.5
	0.4	0.3	0.5	0.4	0.6	0.4	0.6	0.3	Ampl.	0.4
	252.8	252.1	252.7	252.1	252.5	251.8	252.5	251.0	Sbd box	252.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.74020128934E+03		Apriori delay (usec)		4.74022445607E+03		Resid mbdelay (usec)		-7.54173E-03	+/- 6.2E-05
Sband delay (usec)	4.74020835007E+03		Apriori clock (usec)		-8.4995041E+00		Resid sbdelay (usec)		-1.61060E-02	+/- 4.9E-04
Phase delay (usec)	4.74022445338E+03		Apriori clockrate (us/s)		-1.9400004E-07		Resid phdelay (usec)		-2.69223E-06	+/- 2.1E-07
Delay rate (us/s)	1.05808917358E+00		Apriori rate (us/s)		1.05808913074E+00		Resid rate (us/s)		4.28415E-08	+/- 1.0E-09
Total phase (deg)	149.0		Apriori accel (us/s/s)		-3.84708856279E-05		Resid phase (deg)		-83.5	+/- 6.5

ph/seg (deg) 34.0 15.6 Search (2048X32) 0.334 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 41.1 27.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 45.7 9.2 Inc. seg. avg. 0.389 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.8 16.1 Inc. frq. avg. 0.425 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 79.2 el 65.3 pa -78.1 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -8146.213 -3795.925 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/nX..193QBF Output file: /Exps/c201d/v1/1234/No0057/nX.W.170.193QBF

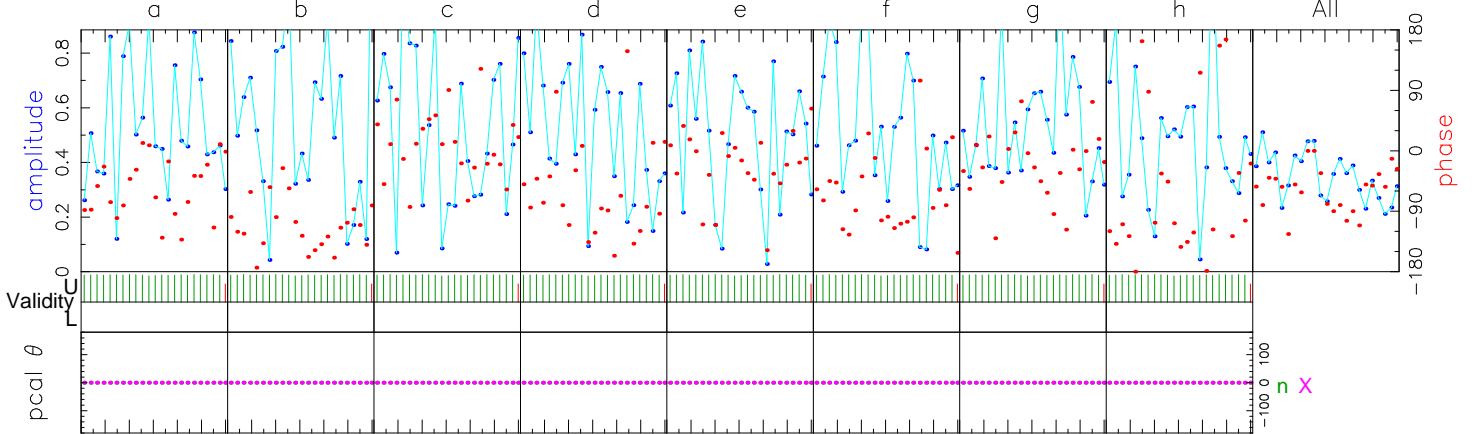
Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, nX
VLBA_NL - ONSALA60, fgroup W, pol RR



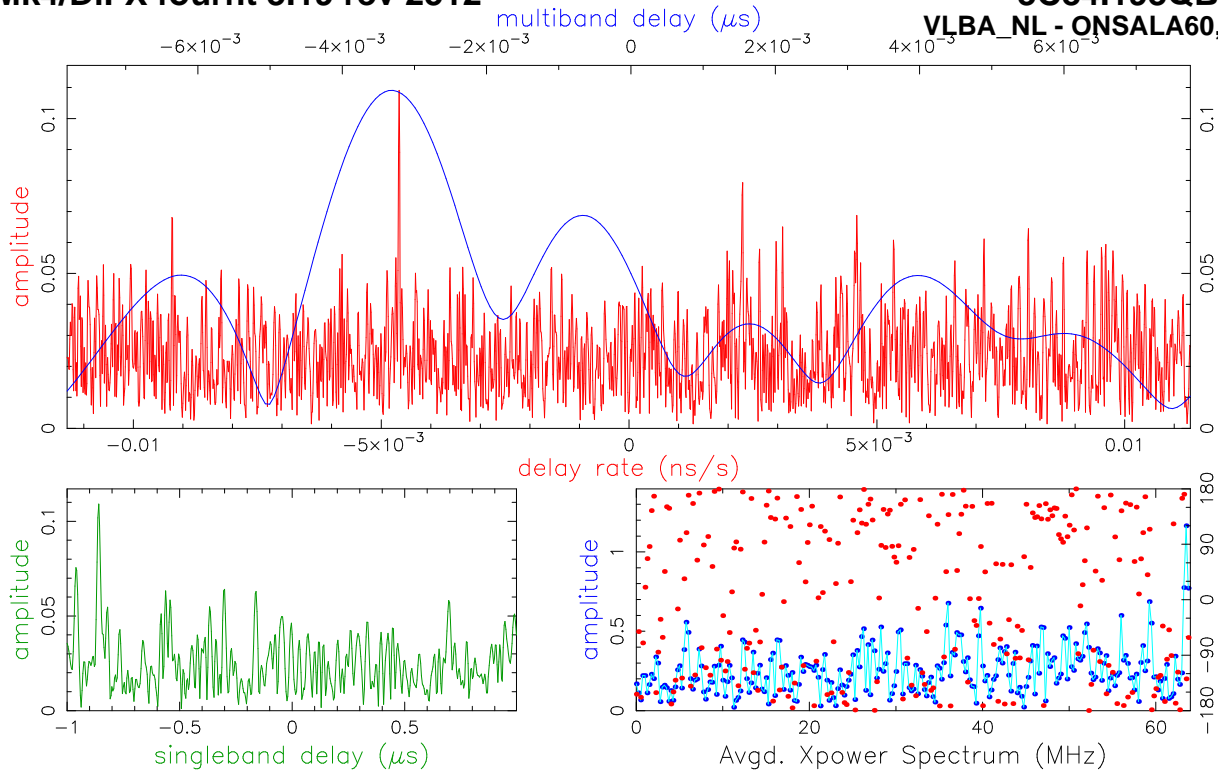
Fringe quality 8
SNR 15.2
Int time 353.761
Amp 0.295
Phase -57.2
PFD 3.1e-43
Delays (us)
SBD 0.020433
MBD -0.001384
Fringe rate (Hz) 0.003625
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165000.00
Stop 165559.94
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122523
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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



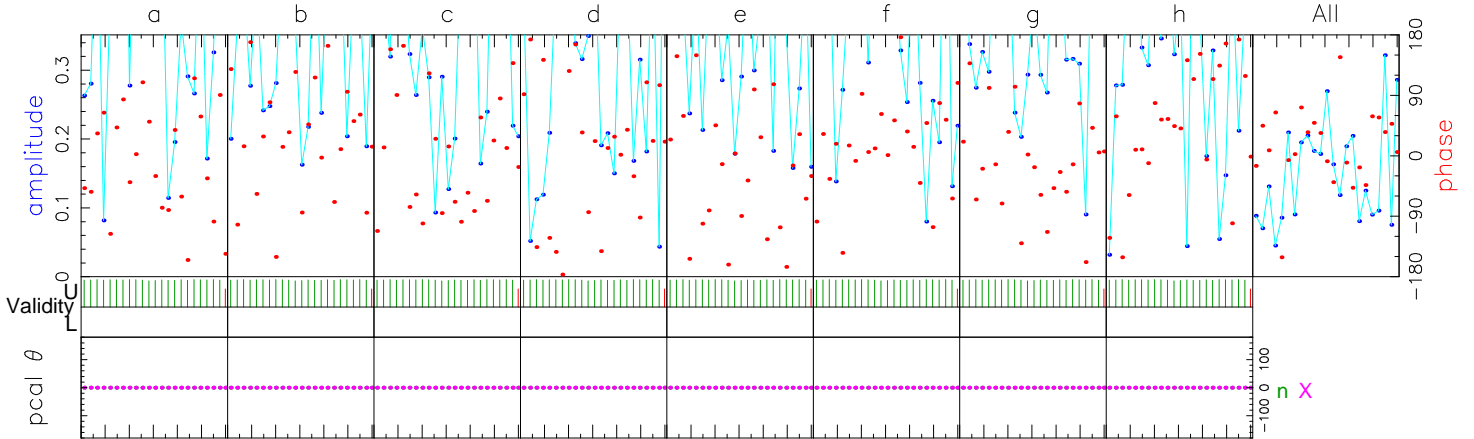
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-53.6	-107.8	-0.1	-74.0	-17.1	-70.7	-23.9	-129.6	Phase	-57.2
	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	Ampl.	0.4
	262.2	262.7	262.1	261.7	261.6	261.6	261.0	260.3	Sbd box	262.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.74023869669E+03		Apriori delay (usec)		4.74022445607E+03		Resid mbdelay (usec)		-1.38438E-03	+/- 7.2E-05
Sband delay (usec)	4.74024488882E+03		Apriori clock (usec)		-8.4995041E+00		Resid sbdelay (usec)		2.04327E-02	+/- 5.7E-04
Phase delay (usec)	4.74022445422E+03		Apriori clockrate (us/s)		-1.9400004E-07		Resid phdelay (usec)		-1.84603E-06	+/- 2.4E-07
Delay rate (us/s)	1.05808917283E+00		Apriori rate (us/s)		1.05808913074E+00		Resid rate (us/s)		4.20862E-08	+/- 1.2E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.84708856279E-05		Resid phase (deg)		-57.2	+/- 7.5

ph/seg (deg) 32.7 18.1 Search (2048X32) 0.291 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 34.6 31.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 48.7 10.7 Inc. seg. avg. 0.333 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 33.2 18.6 Inc. frq. avg. 0.381 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
n: az 79.2 el 65.3 pa -78.1 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -8146.213 -3795.925 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/nX..193QBF Output file: /Exps/c201d/v1/1234/No0057/nX.W.187.193QBF



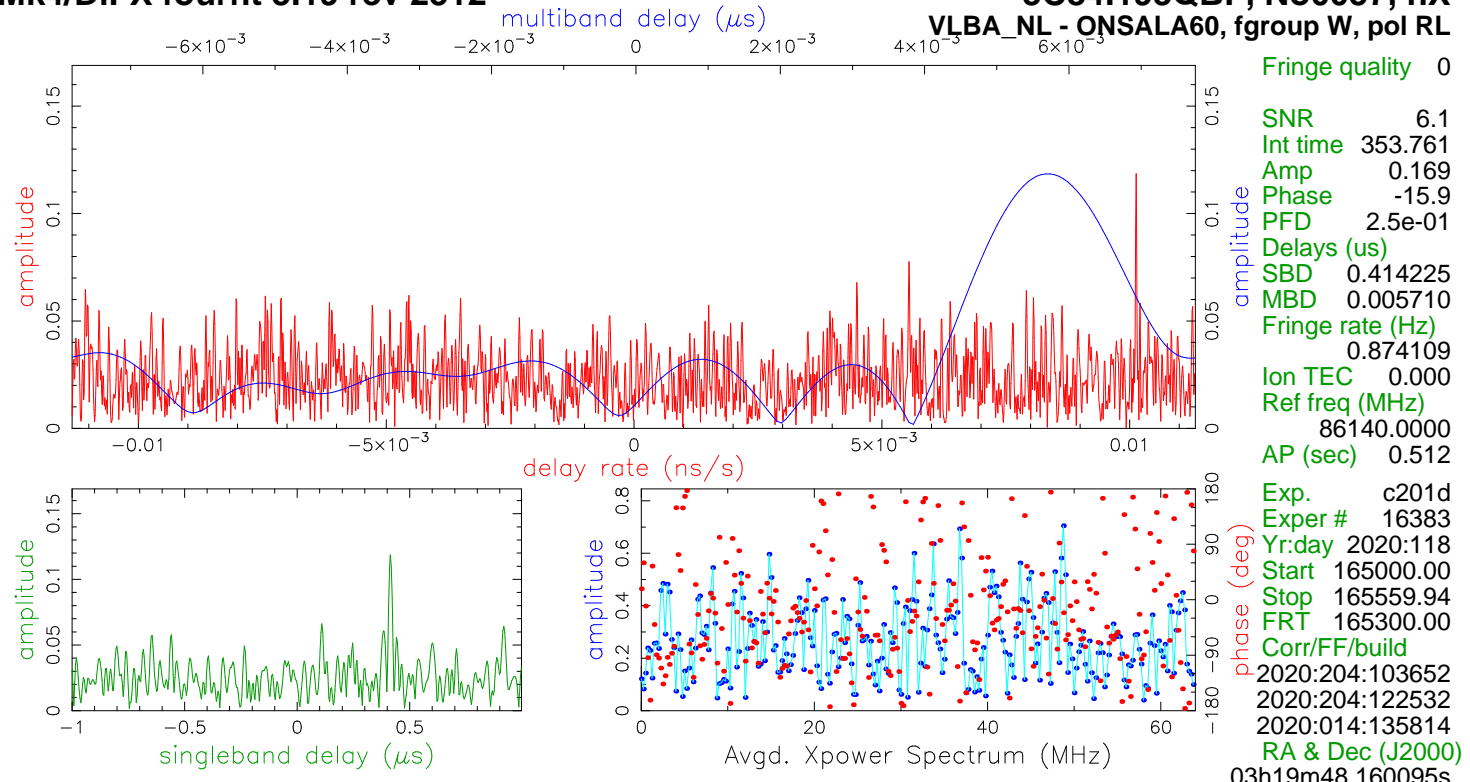
Fringe quality 0
SNR 5.6
Int time 353.761
Amp 0.117
Phase 14.4
PFD 9.9e-01
Delays (us)
SBD -0.859839
MBD -0.003320
Fringe rate (Hz)
-0.400227
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201d
Yr:day 16383
Start 2020:118
Stop 2020:118
FRT 165300.00
Corr/FF/build
2020:204:103652
2020:204:122527
2020:014:135814
RA & Dec (J2000)
03h19m48.160095s
+41°30'42.104042"

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

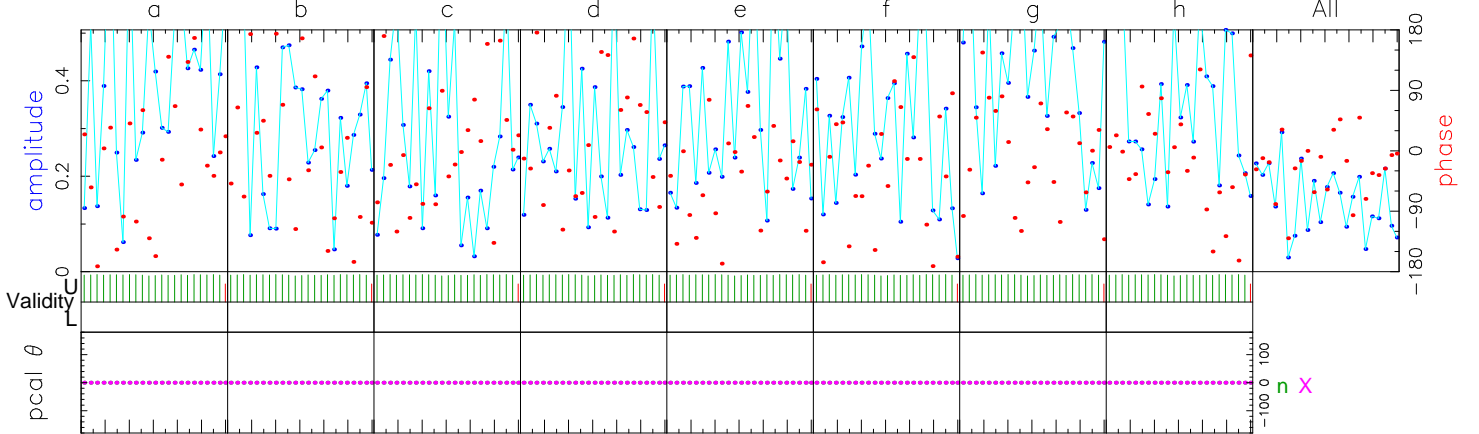


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		4.73936176137E+03			4.74022445607E+03					
Sband delay (usec)		4.73936461732E+03			-8.4995041E+00					
Phase delay (usec)		4.74022445653E+03			-1.9400004E-07					
Delay rate (us/s)		1.05808448451E+00			1.05808913074E+00					
Total phase (deg)			246.9		-3.84708856279E-05					
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

ph/seg (deg) 56.7 48.9 Search (2048X32) 0.106 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 76.4 85.4 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 42.7 28.8 Inc. seg. avg. 0.118 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 53.0 50.3 Inc. frq. avg. 0.119 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
n: az 79.2 el 65.3 pa -78.1 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -8146.213 -3795.925 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/nX..193QBF Output file: /Exps/c201d/v1/1234/No0057/nX.W.211.193QBF



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

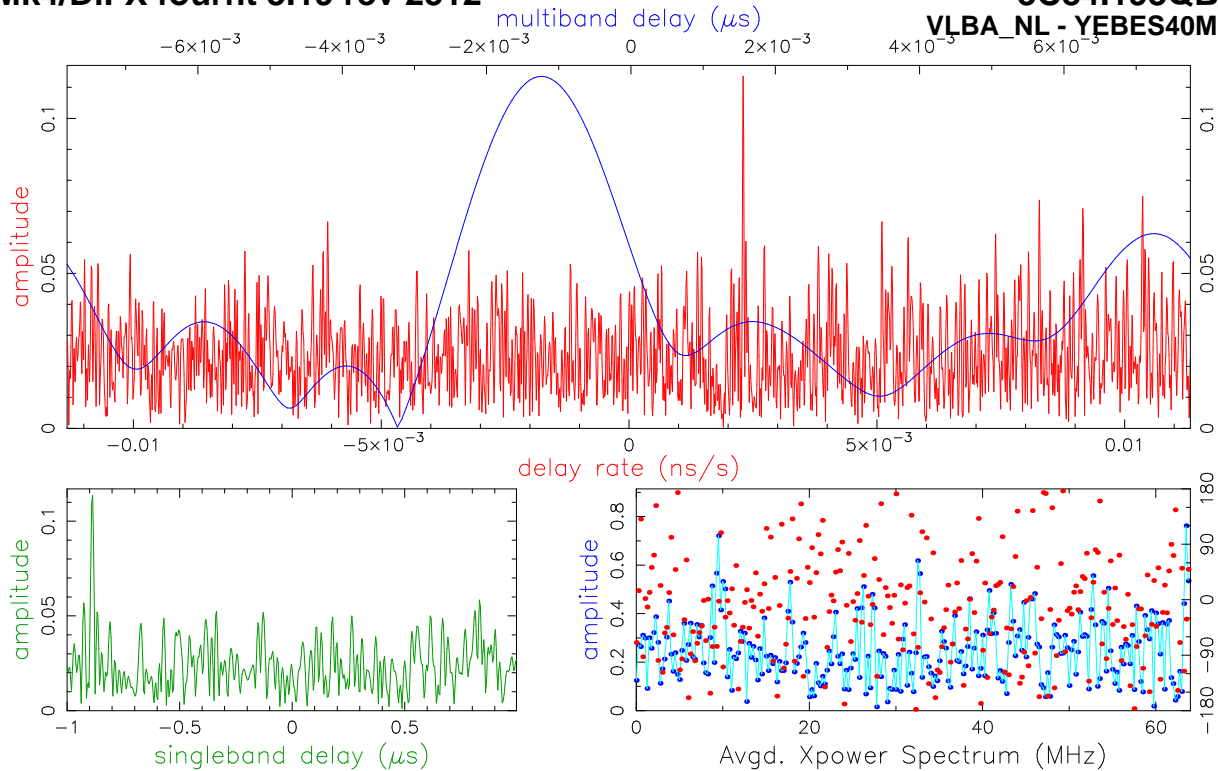


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
6.3	-30.0	-5.8	-54.1	-22.8	-22.9	-3.8	-9.3	-9.3	Phase	-15.9
0.2	0.1	0.1	0.1	0.3	0.2	0.2	0.2	0.2	Ampl.	0.2
395.3	346.9	353.4	477.0	363.5	236.3	464.6	484.3	484.3	Sbd box	363.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.74063641623E+03		Apriori delay (usec)	4.74022445607E+03	Resid mbdelay (usec)	5.71016E-03	+/-	1.8E-04		
Sband delay (usec)	4.74063868057E+03		Apriori clock (usec)	-8.4995041E+00	Resid sbdelay (usec)	4.14225E-01	+/-	1.4E-03		
Phase delay (usec)	4.74022445556E+03		Apriori clockrate (us/s)	-1.9400004E-07	Resid phdelay (usec)	-5.11847E-07	+/-	6.1E-07		
Delay rate (us/s)	1.05809927828E+00		Apriori rate (us/s)	1.05808913074E+00	Resid rate (us/s)	1.01475E-05	+/-	2.9E-09		
Total phase (deg)		216.6	Apriori accel (us/s/s)	-3.84708856279E-05	Resid phase (deg)	-15.9	+/-	18.8		

	RMS	Theor.	Amplitude	0.169 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	44.4	45.1	Search (2048X32)	0.113	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	64.0	78.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	20.6	26.6	Inc. seg. avg.	0.166	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	28.4	46.4	Inc. frq. avg.	0.159	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

n: az 79.2 el 65.3 pa -78.1 X: az 281.6 el 44.0 pa 44.9 u,v (fr/asec) -8146.213 -3795.925 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/nX..193QBF Output file: /Exps/c201d/v1/1234/No0057/nX.W.230.193QBF

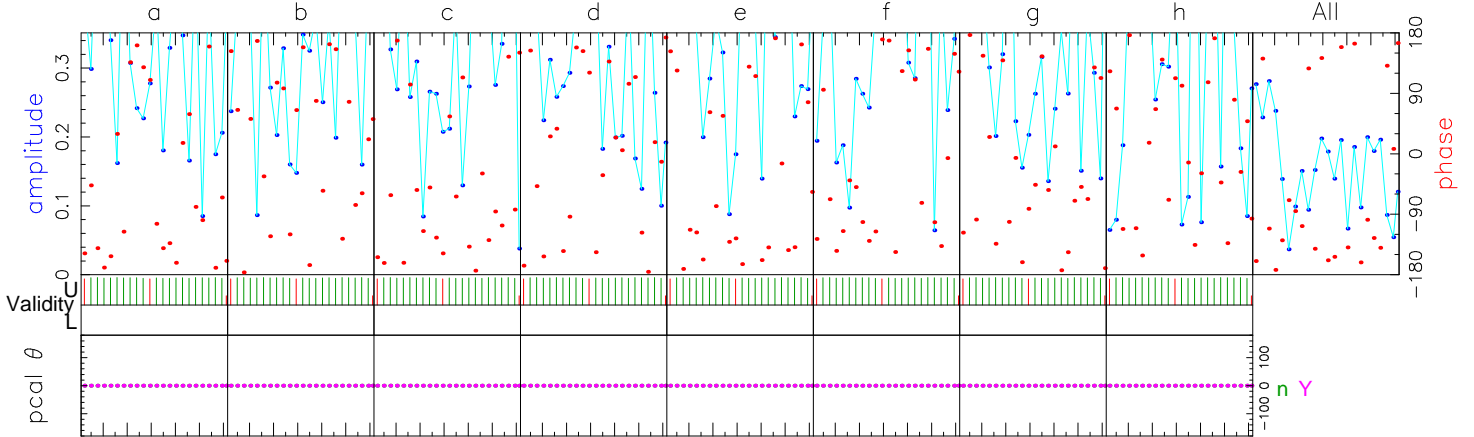


Fringe quality 0

SNR 5.9
Int time 348.130
Amp 0.117
Phase -156.6
PFD 6.6e-01
Delays (us)
SBD -0.888058
MBD -0.001257
Fringe rate (Hz) 0.198654
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

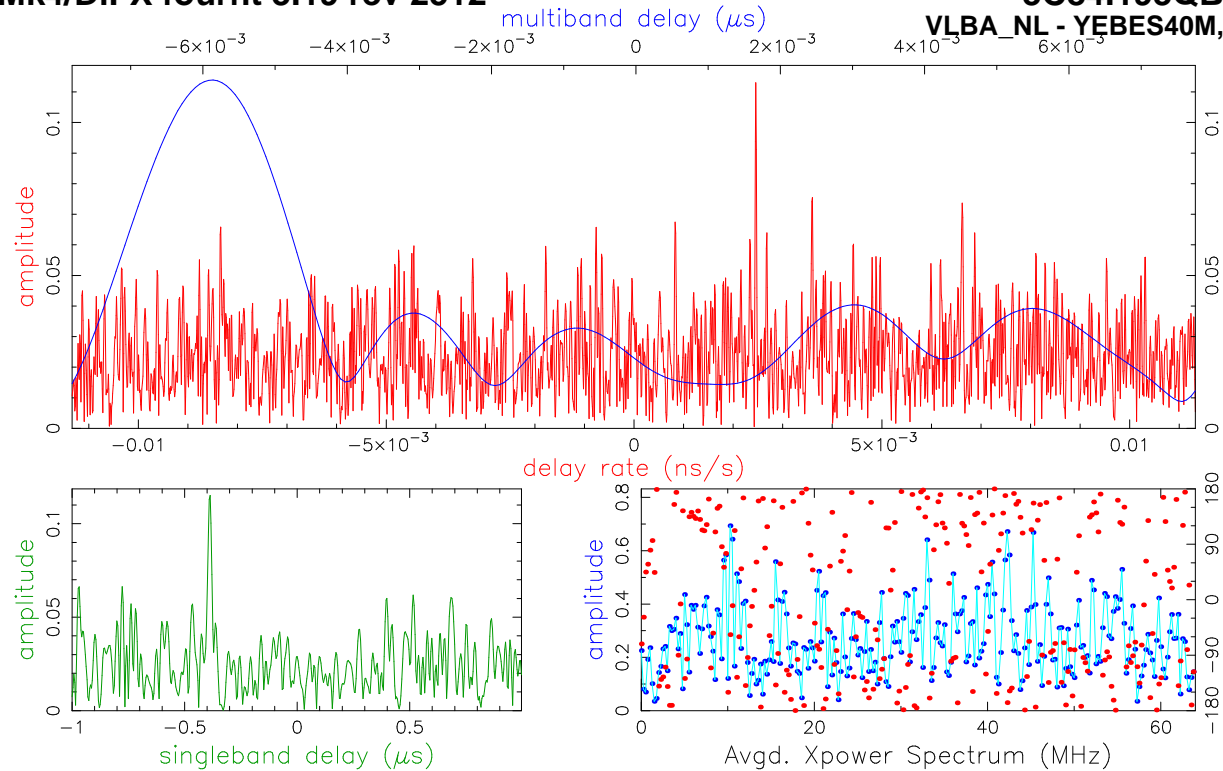
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165005.12
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122519
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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



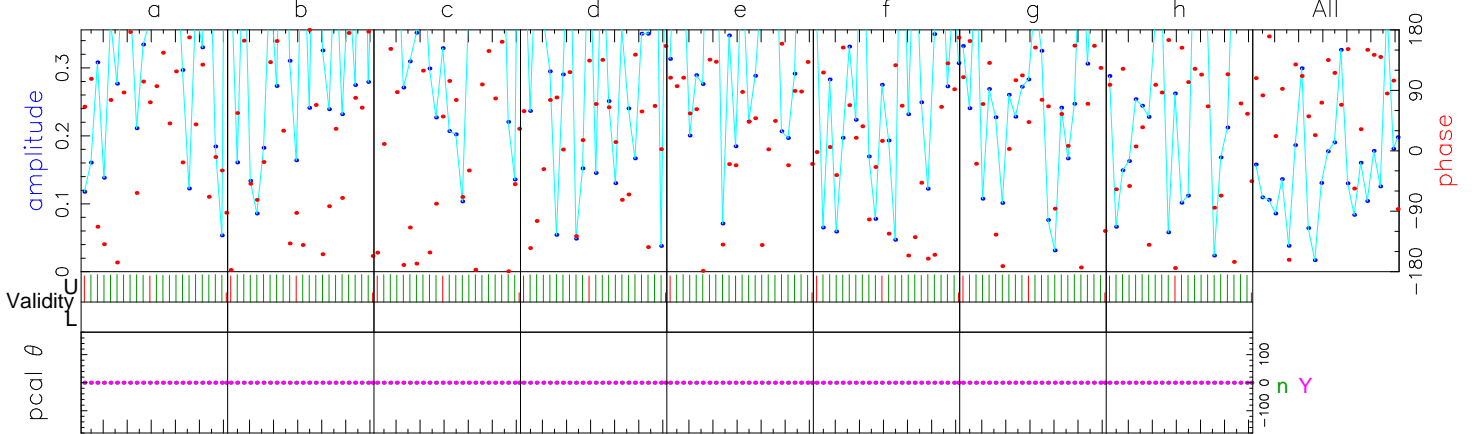
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-146.5	123.7	-132.3	158.2	-168.1	-158.7	-121.1	-171.0	Phase	-156.6
	0.2	0.1	0.2	0.1	0.2	0.2	0.1	0.1	Ampl.	0.1
	119.7	307.1	30.6	60.8	28.6	223.4	158.1	153.3	Sbd box	29.7
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.50616636215E+03		Apriori delay (usec)		3.50705824440E+03		Resid mbdelay (usec)		-1.25725E-03	+/- 1.8E-04
Sband delay (usec)	3.50617018615E+03		Apriori clock (usec)		2.0337093E+01		Resid sbdelay (usec)		-8.88058E-01	+/- 1.5E-03
Phase delay (usec)	3.50705823935E+03		Apriori clockrate (us/s)		1.1399998E-07		Resid phdelay (usec)		-5.04878E-06	+/- 6.3E-07
Delay rate (us/s)	1.19793673995E+00		Apriori rate (us/s)		1.19793443378E+00		Resid rate (us/s)		2.30617E-06	+/- 3.1E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.73187911250E-05		Resid phase (deg)		-156.6	+/- 19.5

ph/seg (deg) 57.2 46.8 Search (2048X32) 0.110 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 68.6 81.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 42.2 27.6 Inc. seg. avg. 0.120 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 37.8 48.2 Inc. frq. avg. 0.117 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
n: az 79.2 el 65.3 pa -78.1 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -9193.124 -1036.372 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/nY..193QBF Output file: /Exps/c201d/v1/1234/No0057/nY.W.172.193QBF



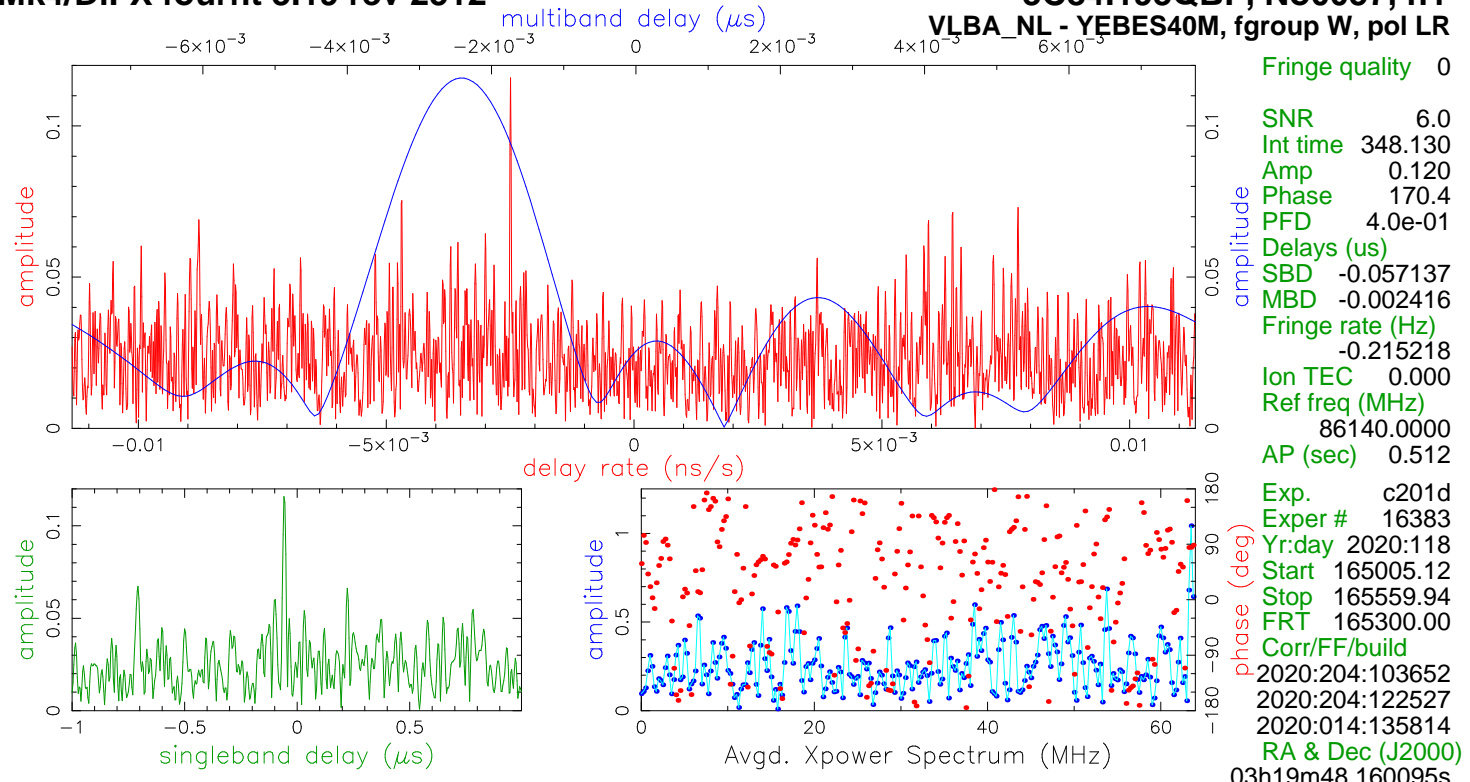
Fringe quality 0
SNR 5.9
Int time 348.129
Amp 0.119
Phase 103.6
PFD 5.2e-01
Delays (us)
SBD -0.388169
MBD -0.005737
Fringe rate (Hz) 0.211636
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201d
Exper # 16383
Yr:day 2020:118
Start 165005.12
Stop 165559.94
FRT 165300.00
Corr/FF/build 2020:204:103652
2020:204:122523
2020:014:135814
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		3.50667750731E+03				3.50705824440E+03			Resid mbdelay (usec)	-5.73709E-03 +/- 1.8E-04
Sband delay (usec)		3.50667007590E+03				2.0337093E+01			Resid sbdelay (usec)	-3.88169E-01 +/- 1.5E-03
Phase delay (usec)		3.50705824774E+03				1.1399998E-07			Resid phdelay (usec)	3.34145E-06 +/- 6.2E-07
Delay rate (us/s)		1.19793689066E+00				1.19793443378E+00			Resid rate (us/s)	2.45688E-06 +/- 3.0E-09
Total phase (deg)			165.8			-1.73187911250E-05			Resid phase (deg)	103.6 +/- 19.3
RMS	60.6	46.3		0.119 +/- 0.020						
ph/seg (deg)	60.6	46.3		0.113						
amp/seg (%)	82.2	80.8		0.000						
ph/frq (deg)	28.8	27.3		0.119						
amp/frq (%)	36.2	47.6		0.112						
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	sb window (us) -1.000 1.000
Sample rate (MSamp/s):						128				mb window (us) -0.008 0.008
Data rate (Mb/s):						2048				dr window (ns/s) -0.011 0.011
										ion window (TEC) 0.00 0.00

n: az 79.2 el 65.3 pa -78.1 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -9193.124 -1036.372 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/nY..193QBF Output file: /Exps/c201d/v1/1234/No0057/nY.W.190.193QBF



Fringe quality 0

SNR 6.0

Int time 348.130

Amp 0.120

Phase 170.4

PFD 4.0e-01

Delays (us)

SBD -0.057137

MBD -0.002416

Fringe rate (Hz)

-0.215218

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c201d

Exper # 16383

Yr:day 2020:118

Start 165005.12

Stop 165559.94

FRT 165300.00

Corr/FF/build

2020:204:103652

2020:204:122527

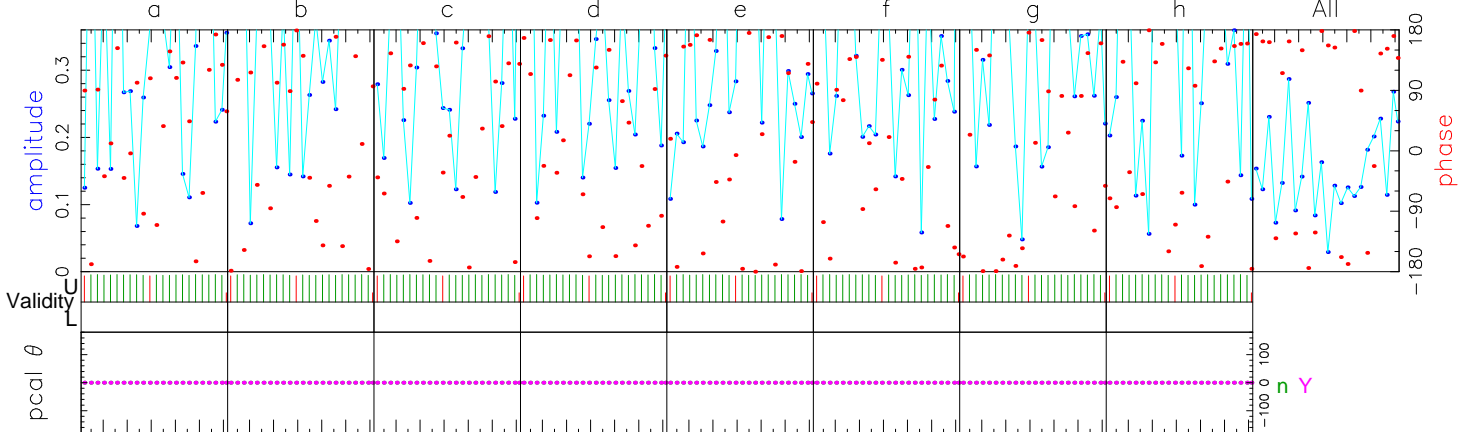
2020:014:135814

RA & Dec (J2000)

03h19m48.160095s

+41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	145.8	-164.2	167.2	152.9	-178.3	144.5	-179.1	170.0	Phase	170.4
	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	Ampl.	0.1
	222.6	236.2	107.1	1.6	458.5	379.8	100.5	242.8	Sbd box	242.4
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.50699332860E+03		Apriori delay (usec)		3.50705824440E+03		Resid mbdelay (usec)		-2.41580E-03	+/- 1.8E-04
Sband delay (usec)	3.50700110765E+03		Apriori clock (usec)		2.0337093E+01		Resid sbdelay (usec)		-5.71368E-02	+/- 1.4E-03
Phase delay (usec)	3.50705824990E+03		Apriori clockrate (us/s)		1.1399998E-07		Resid phdelay (usec)		5.49530E-06	+/- 6.2E-07
Delay rate (us/s)	1.19793193531E+00		Apriori rate (us/s)		1.19793443378E+00		Resid rate (us/s)		-2.49847E-06	+/- 3.0E-09
Total phase (deg)	232.6		Apriori accel (us/s/s)		-1.73187911250E-05		Resid phase (deg)		170.4	+/- 19.1

ph/seg (deg) 49.9 45.8 Search (2048X32) 0.113 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 63.8 79.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 20.3 27.0 Inc. seg. avg. 0.119 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

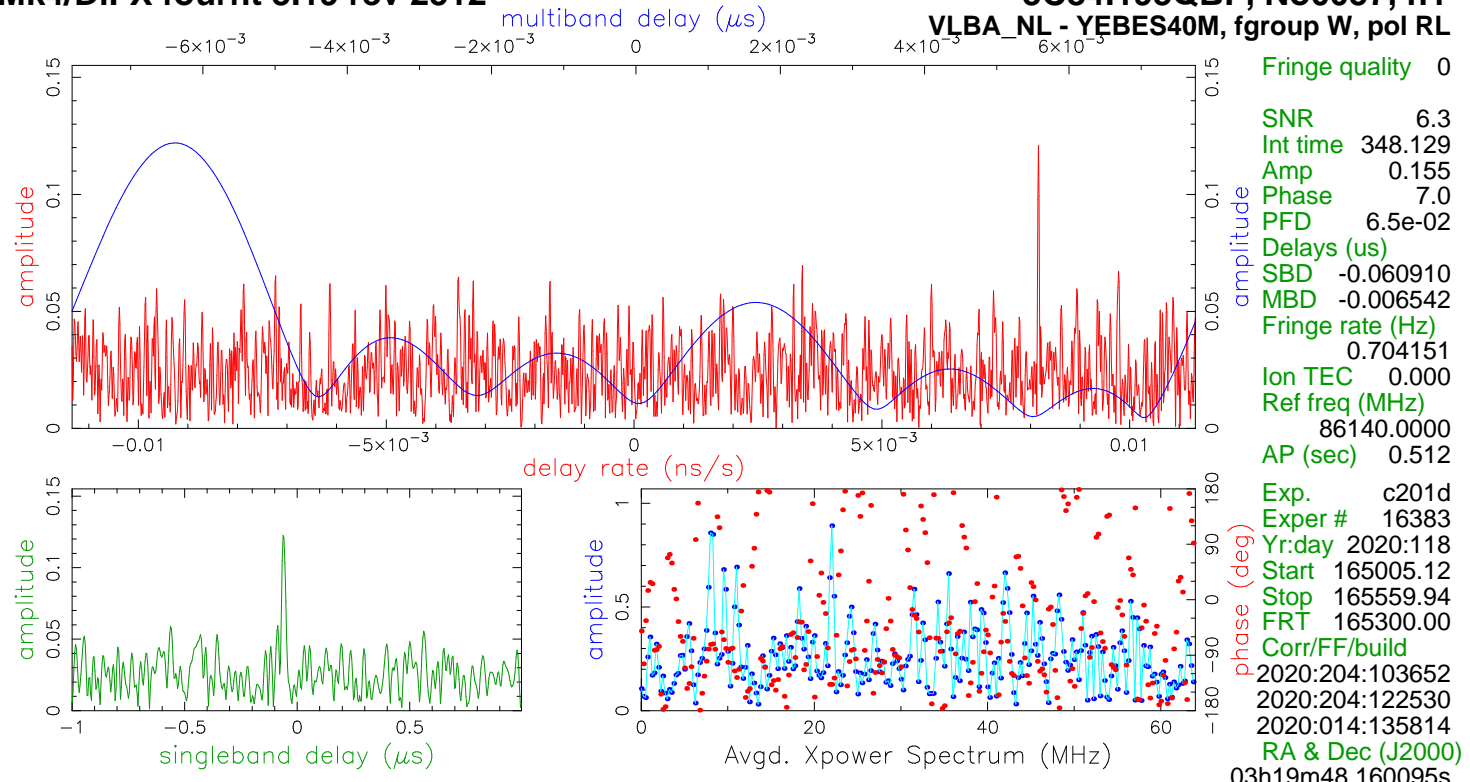
amp/frq (%) 30.7 47.1 Inc. frq. avg. 0.111 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

n: az 79.2 el 65.3 pa -78.1 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -9193.124 -1036.372 ion window (TEC) 0.00 0.00 simultaneous interpolator

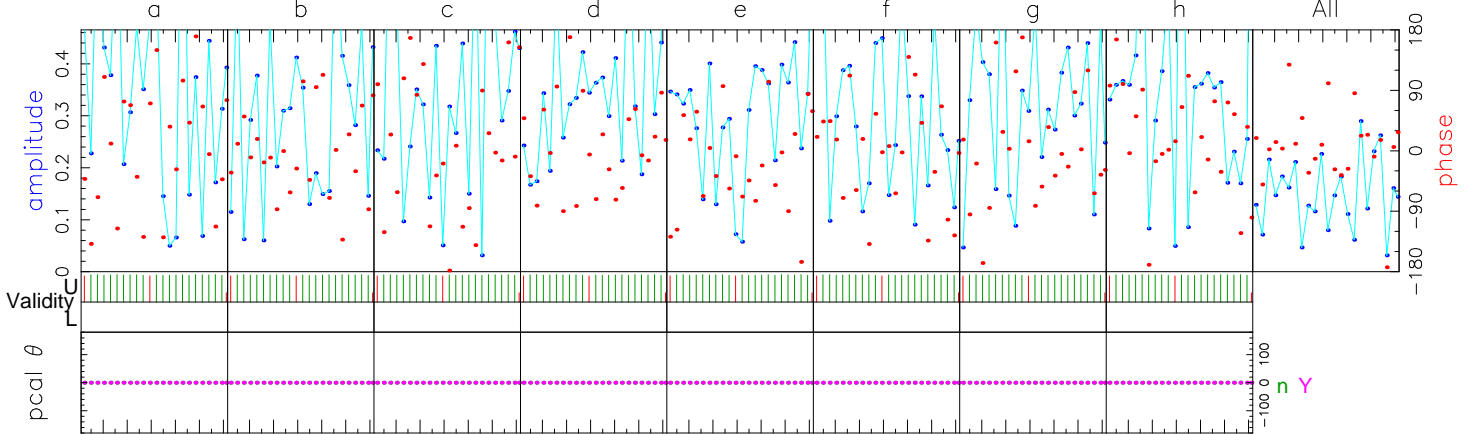
Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/nY..193QBF Output file: /Exps/c201d/v1/1234/No0057/nY.W.207.193QBF

Mk4/DiFX fourfit 3.19 rev 2512

3C84.193QBF, No0057, nY
VLBA_NL - YEYES40M, fgroup W, pol RL



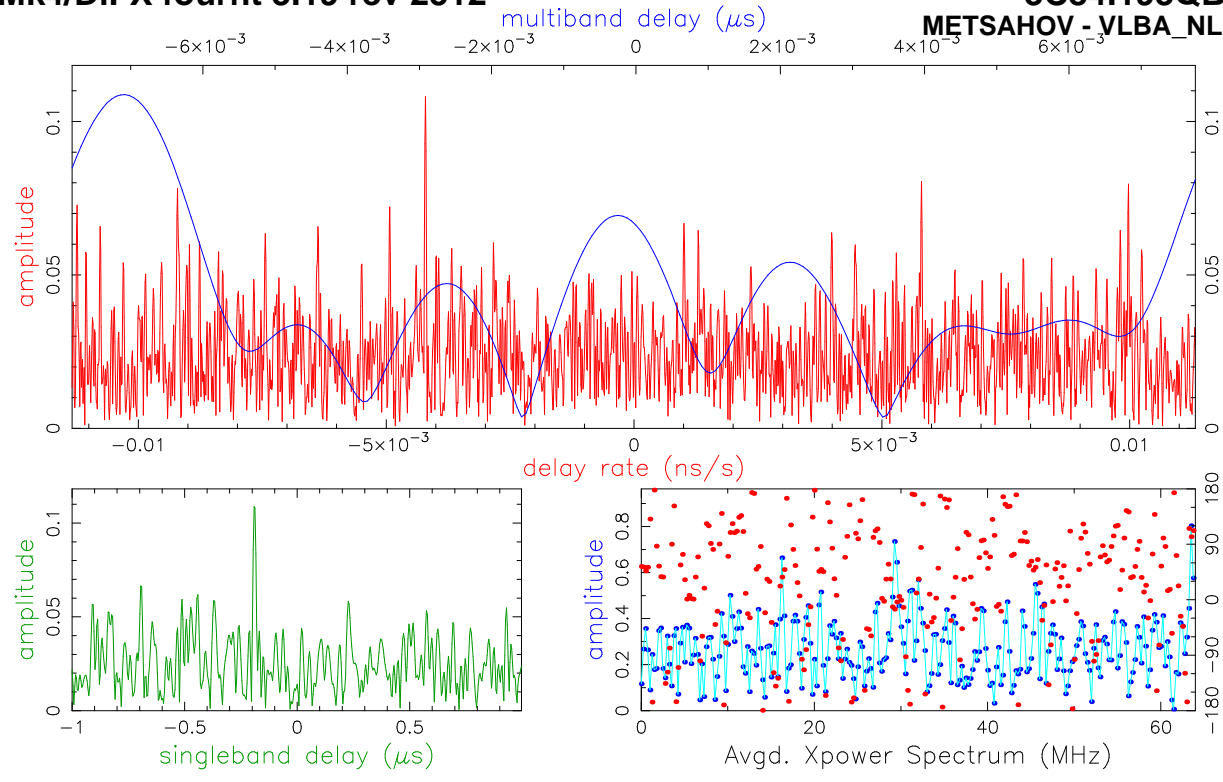
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	693/0	693/0	693/0	693/0	693/0	693/0	693/0	693/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		3.50700482715E+03				3.50705824440E+03			Resid mbdelay (usec)	-6.54226E-03 +/- 1.7E-04
Sband delay (usec)		3.50699733465E+03				2.0337093E+01			Resid sbdelay (usec)	-6.09098E-02 +/- 1.4E-03
Phase delay (usec)		3.50705824463E+03				1.1399998E-07			Resid phdelay (usec)	2.25724E-07 +/- 5.8E-07
Delay rate (us/s)		1.19794260827E+00				1.19793443378E+00			Resid rate (us/s)	8.17450E-06 +/- 2.9E-09
Total phase (deg)			69.2			-1.73187911250E-05			Resid phase (deg)	7.0 +/- 18.1
RMS	58.0	43.4							PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	58.0	43.4							PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	58.9	75.8							Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	20.2	25.6							Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	42.7	44.7							Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

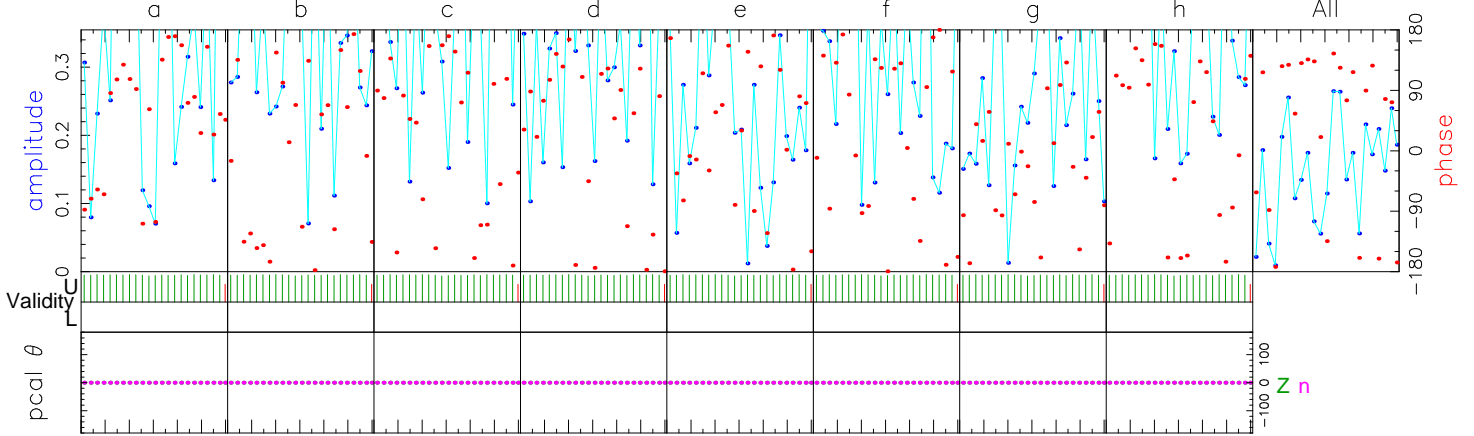
n: az 79.2 el 65.3 pa -78.1 Y: az 290.3 el 49.0 pa 72.6 u,v (fr/asec) -9193.124 -1036.372 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/nY..193QBF Output file: /Exps/c201d/v1/1234/No0057/nY.W.225.193QBF



Fringe quality 0
 SNR 5.7
 Int time 353.279
 Amp 0.118
 Phase 123.6
 PFD 9.1e-01
 Delays (us)
 SBD -0.189580
 MBD -0.007214
 Fringe rate (Hz)
 -0.362676
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122533
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

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

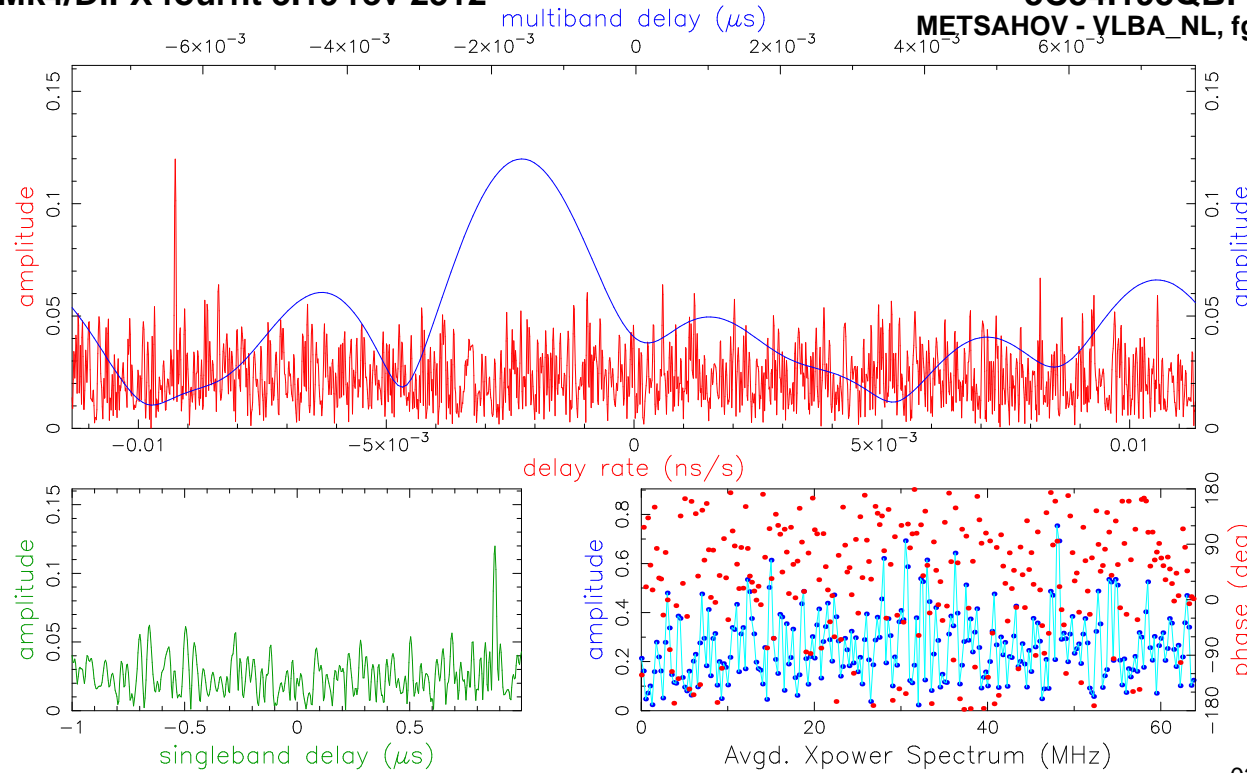


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-6.31753757567E+03	Apriori delay (usec)	-6.31734286216E+03	Resid mbdelay (usec)	-7.21351E-03	+/-	1.9E-04
Sband delay (usec)	-6.31753244166E+03	Apriori clock (usec)	-3.2443150E+01	Resid sbdelay (usec)	-1.89580E-01	+/-	1.5E-03
Phase delay (usec)	-6.31734285818E+03	Apriori clockrate (us/s)	-3.1799997E-07	Resid phdelay (usec)	3.98483E-06	+/-	6.4E-07
Delay rate (us/s)	-1.03949527305E+00	Apriori rate (us/s)	-1.03949106274E+00	Resid rate (us/s)	-4.21031E-06	+/-	3.1E-09
Total phase (deg)	70.8	Apriori accel (us/s/s)	4.85560910698E-05	Resid phase (deg)	123.6	+/-	20.0

ph/seg (deg)	68.4	Theor.	47.9	Amplitude	0.118 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	76.4	Search (2048X32)	0.107	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)	66.2	Inc. seg. avg.	0.117	Inc. frq. avg.	0.118	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	53.4	Inc. frq. avg.	0.118			Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

Z: az 288.5 el 38.5 pa 39.1 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) 8015.984 4669.346 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Zn..193QBF Output file: /Exps/c201d/v1/1234/No0057/Zn.W.235.193QBF

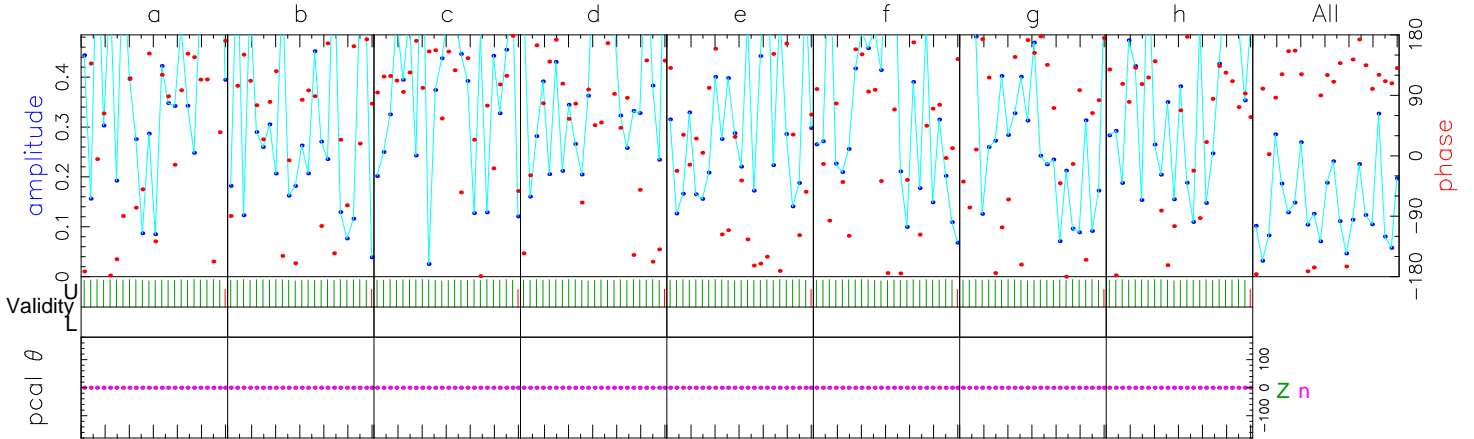


Fringe quality 0

SNR 6.2
 Int time 353.279
 Amp 0.162
 Phase 129.9
 PFD 1.4e-01
 Delays (us)
 SBD 0.877911
 MBD -0.001618
 Fringe rate (Hz)
 -0.798714
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122537
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

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



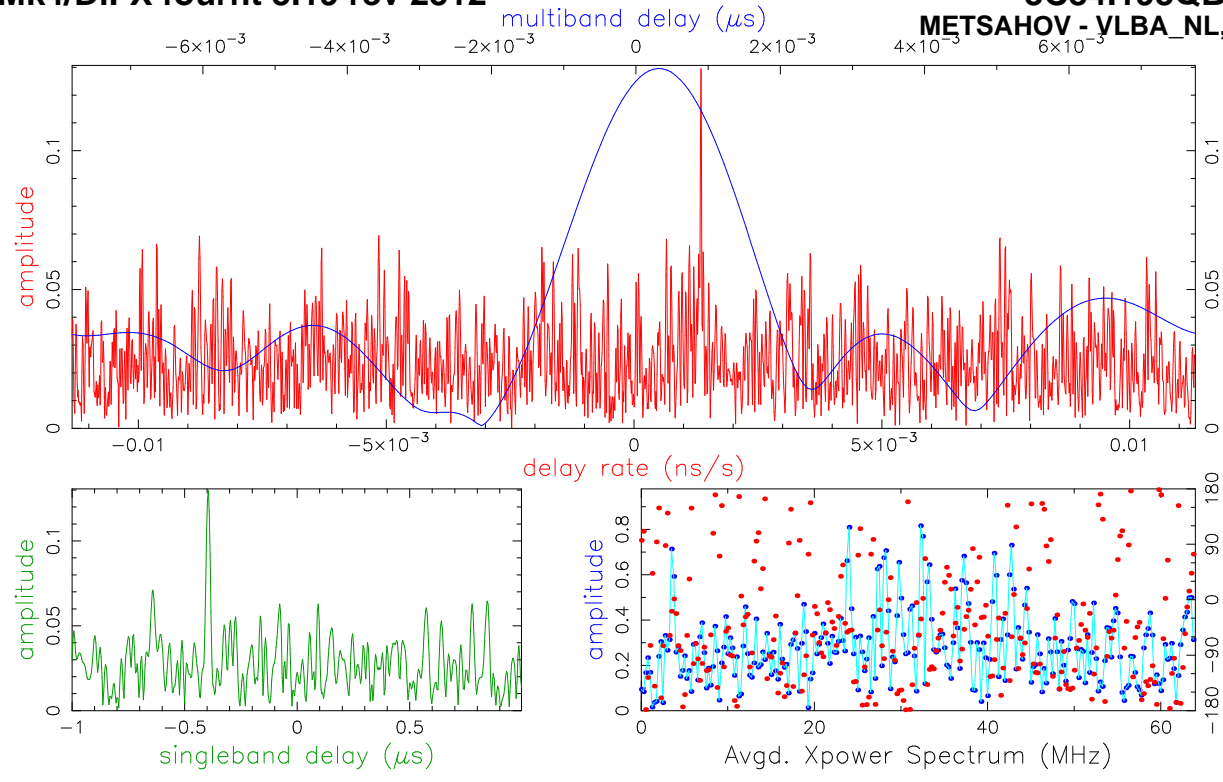
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-6.31646947984E+03	Apriori delay (usec)	-6.31734286216E+03	Resid mbdelay (usec)	-1.61768E-03	+/-	1.8E-04
Sband delay (usec)	-6.31646495091E+03	Apriori clock (usec)	-3.2443150E+01	Resid sbdelay (usec)	8.77911E-01	+/-	1.4E-03
Phase delay (usec)	-6.31734285797E+03	Apriori clockrate (us/s)	-3.1799997E-07	Resid phdelay (usec)	4.18782E-06	+/-	6.0E-07
Delay rate (us/s)	-1.03950033501E+00	Apriori rate (us/s)	-1.03949106274E+00	Resid rate (us/s)	-9.27227E-06	+/-	2.9E-09
Total phase (deg)		Apriori accel (us/s/s)	4.85560910698E-05	Resid phase (deg)	129.9	+/-	18.5

ph/seg (deg)	42.7	Theor.	44.3	Amplitude	0.162 +/- 0.026	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	68.0		77.3	Search (2048X32)	0.114	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	46.2		26.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	48.7		45.6	Inc. seg. avg.	0.149	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	0.168	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

Z: az 288.5 el 38.5 pa 39.1 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) 8015.984 4669.346 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Zn..193QBF Output file: /Exps/c201d/v1/1234/No0057/Zn.W.248.193QBF

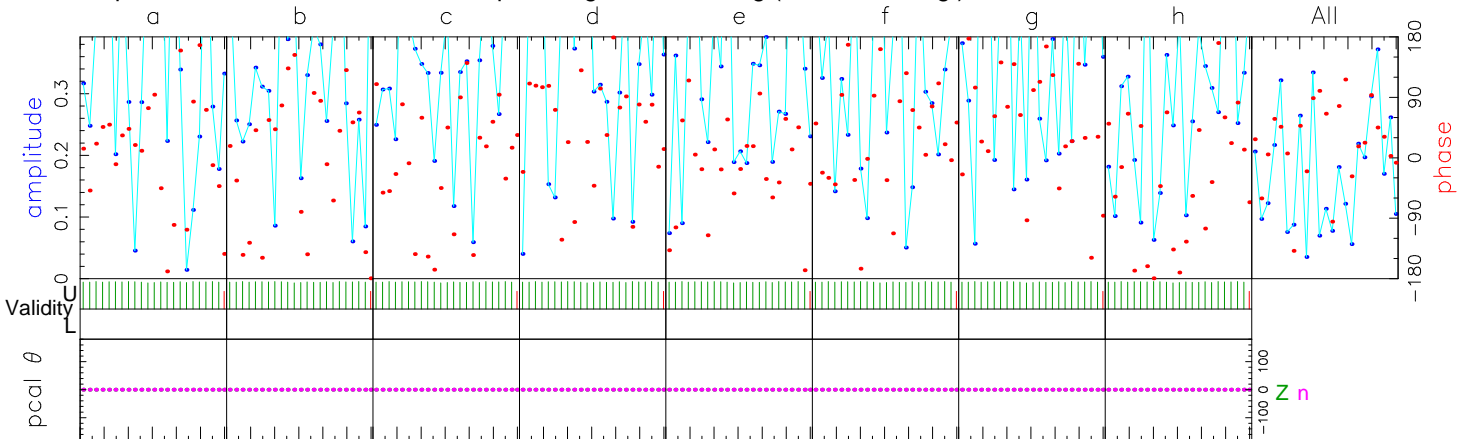


Fringe quality 0

SNR 6.7
 Int time 353.279
 Amp 0.131
 Phase 44.2
 PFD 6.9e-03
 Delays (us)
 SBD -0.395359
 MBD 0.000287
 Fringe rate (Hz)
 0.116479
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

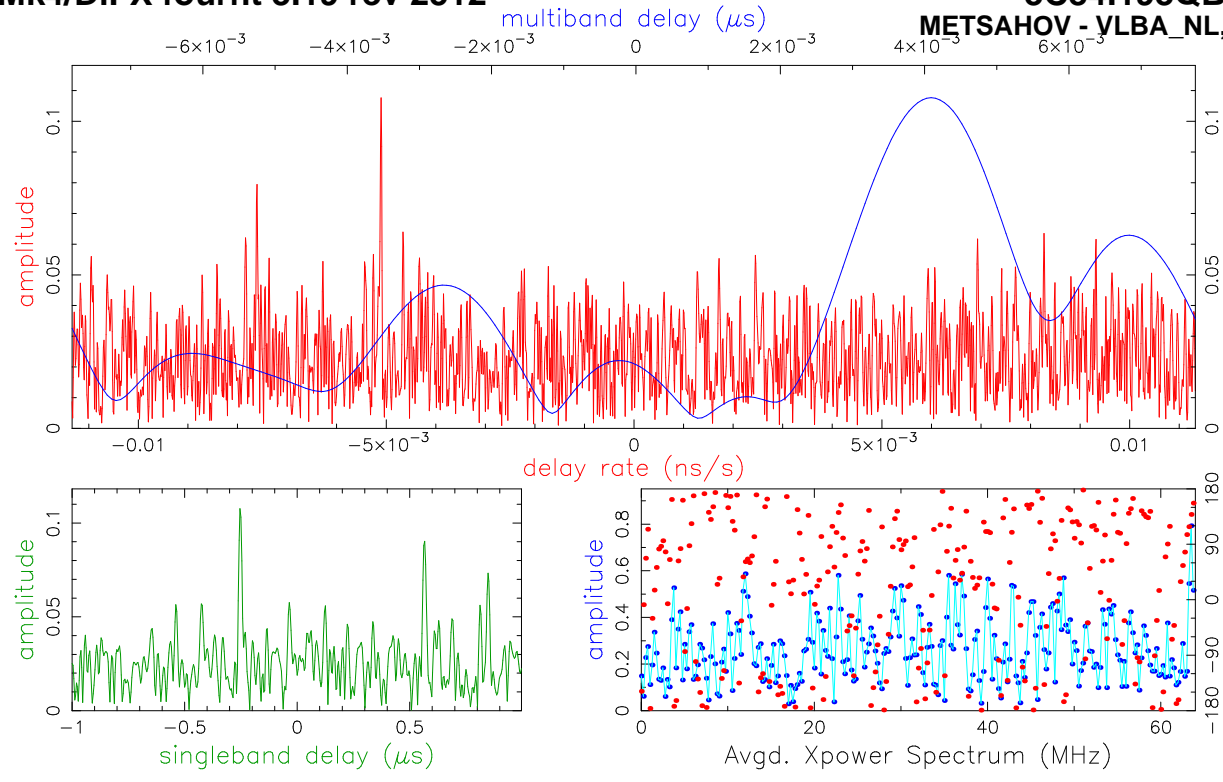
Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122540
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

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



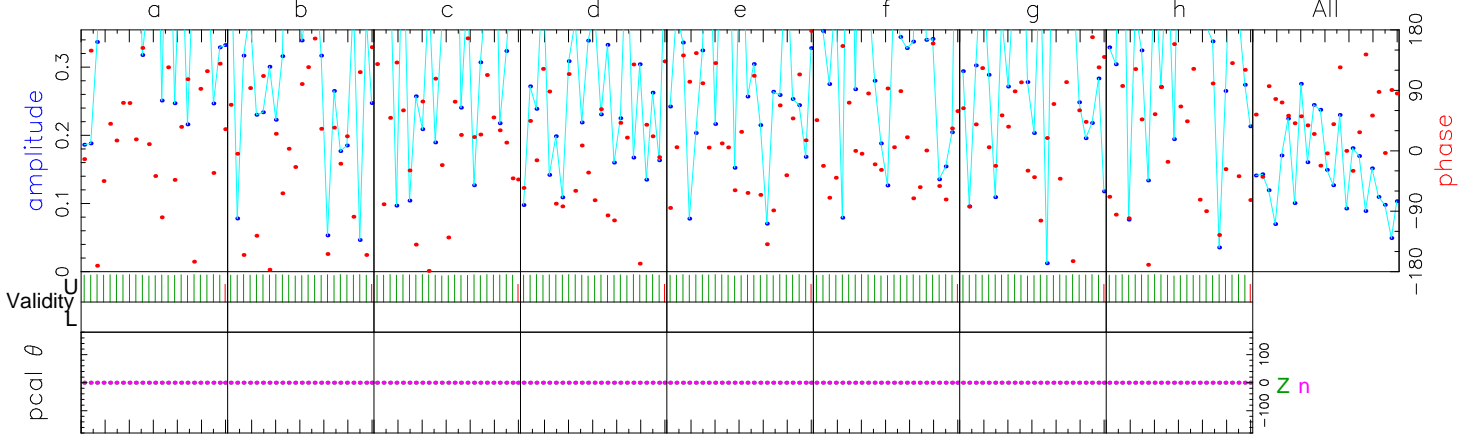
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-6.31773320004E+03					-6.31734286216E+03			2.87122E-04	+/- 1.6E-04
Sband delay (usec)	-6.31773822066E+03					-3.2443150E+01			-3.95359E-01	+/- 1.3E-03
Phase delay (usec)	-6.31734286074E+03					-3.1799997E-07			1.42450E-06	+/- 5.5E-07
Delay rate (us/s)	-1.03948971054E+00					-1.03949106274E+00			1.35220E-06	+/- 2.7E-09
Total phase (deg)			-8.6			4.85560910698E-05			44.2	+/- 17.2
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 64.2 41.1 Search (2048X32) 0.128 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 82.0 71.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 28.7 24.3 Inc. seg. avg. 0.140 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 34.6 42.3 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
 Z: az 288.5 el 38.5 pa 39.1 n: az 79.2 el 65.3 pa -78.1 u,v (fr/asec) 8015.984 4669.346 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201d/v1/1234/No0057/Zn..193QBF Output file: /Exps/c201d/v1/1234/No0057/Zn.W.255.193QBF simultaneous interpolator



Fringe quality 0
 SNR 5.6
 Int time 353.279
 Amp 0.118
 Phase 40.9
 PFD 1.0e+00
 Delays (us)
 SBD -0.252765
 MBD 0.004112
 Fringe rate (Hz)
 -0.439845
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201d
 Exper # 16383
 Yr:day 2020:118
 Start 165000.00
 Stop 165559.94
 FRT 165300.00
 Corr/FF/build
 2020:204:103652
 2020:204:122544
 2020:014:135814
 RA & Dec (J2000)
 03h19m48.160095s
 +41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-6.31758875036E+03								4.11180E-03	+/- 1.9E-04
Sband delay (usec)	-6.31759562741E+03								-2.52765E-01	+/- 1.5E-03
Phase delay (usec)	-6.31734286084E+03								1.31739E-06	+/- 6.6E-07
Delay rate (us/s)	-1.03949616891E+00								-5.10617E-06	+/- 3.2E-09
Total phase (deg)			-11.9						40.9	+/- 20.5
ph/seg (deg)	47.3	49.2								
amp/seg (%)	66.5	85.9								
ph/frq (deg)	29.4	29.0								
amp/frq (%)	43.4	50.7								
Z: az 288.5 el 38.5 pa 39.1										
n: az 79.2 el 65.3 pa -78.1										
u,v (fr/asec)										
Control file: cf_1234_gmva										
Input file: /Exps/c201d/v1/1234/No0057/Zn..193QBF										
Output file: /Exps/c201d/v1/1234/No0057/Zn.W.261.193QBF										

simultaneous interpolator