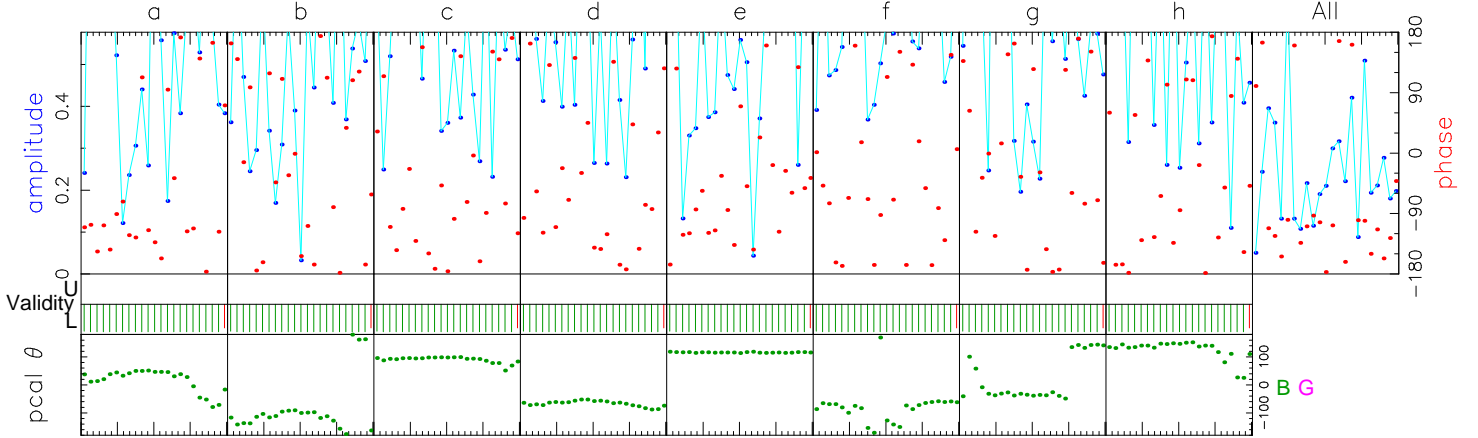
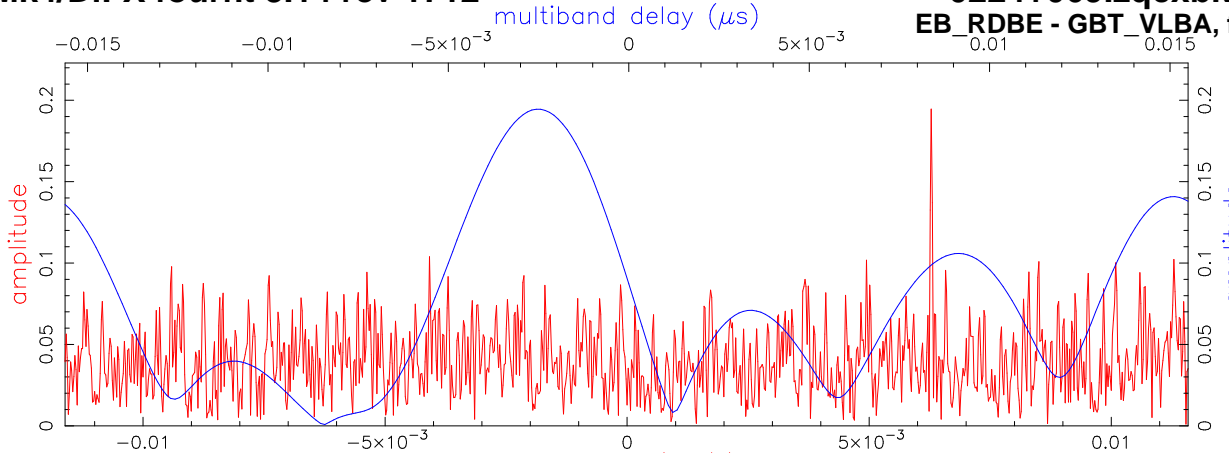


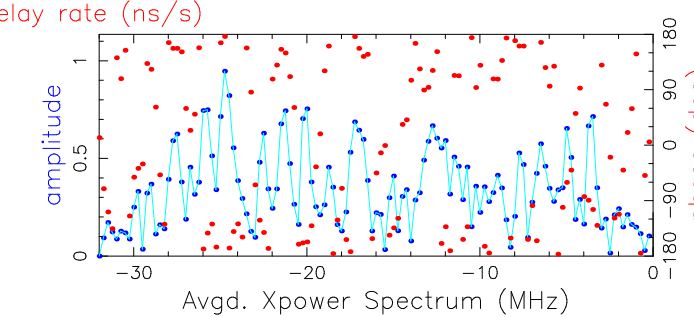
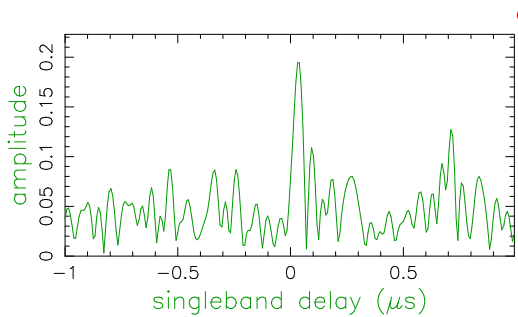
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



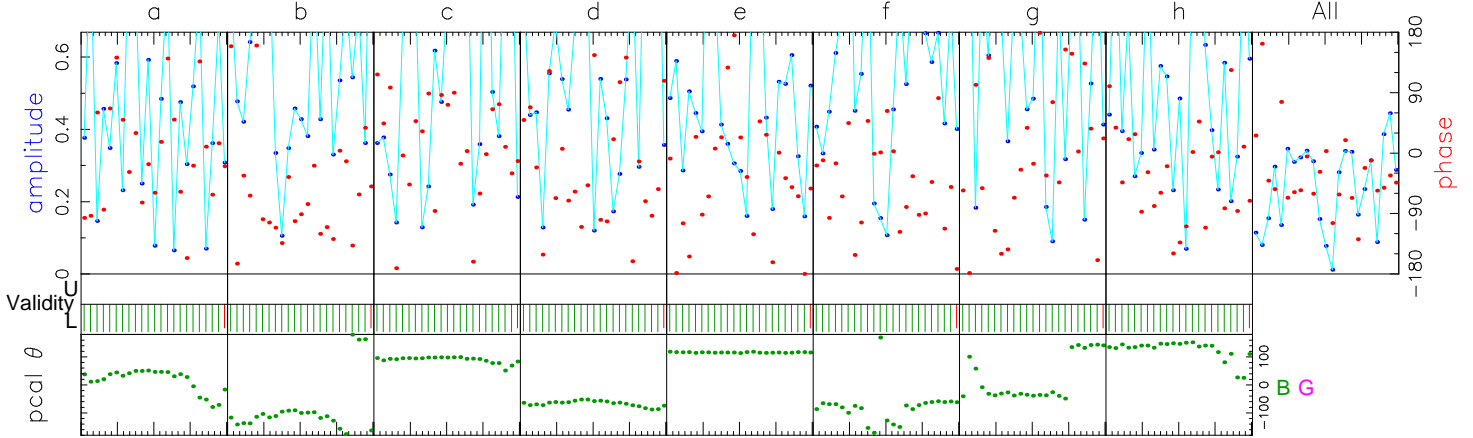
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-135.2	170.3	-128.6	-114.7	-72.8	-106.7	-157.0	-170.6	Phase	-132.6
	0.4	0.2	0.3	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
	149.3	178.3	147.3	106.0	134.6	48.0	214.3	156.9	Sbd box	149.0
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
B:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		2.00627691489E+03		Apriori delay (usec)		2.00613332868E+03		Resid mbdelay (usec)		-1.26638E-02 +/- 3.8E-04
Sband delay (usec)		2.00628935068E+03		Apriori clock (usec)		3.9914131E+01		Resid sbdelay (usec)		1.56022E-01 +/- 3.0E-03
Phase delay (usec)		2.00613332440E+03		Apriori clockrate (us/s)		-2.7030011E-07		Resid phdelay (usec)		-4.27479E-06 +/- 6.5E-07
Delay rate (us/s)		-1.50736812440E+00		Apriori rate (us/s)		-1.50736978210E+00		Resid rate (us/s)		1.65770E-06 +/- 4.7E-09
Total phase (deg)			-696.9	Apriori accel (us/s/s)		-8.36883634905E-06		Resid phase (deg)		-1032.6 +/- 20.1
RMS	47.5	48.1		Amplitude	0.192 +/- 0.034			Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5
ph/seg (deg)	47.5	48.1		Search (1024X32)	0.187			Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us) -1.000 1.000
amp/seg (%)	80.3	84.0		Interp.	0.000			Bits/sample: 2x2		SampCntNorm: enabled mb window (us) -0.016 0.016
ph/frq (deg)	40.6	28.4		Inc. seg. avg.	0.186			Sample rate(MSamp/s): 64		dr window (ns/s) -0.012 0.012
amp/frq (%)	43.3	49.5		Inc. frq. avg.	0.203			Data rate(Mb/s): 1024		nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00



Fringe quality 0
 SNR 5.9
 Int time 239.744
 Amp 0.223
 Phase -220.3
 PFD 2.1e-01
 Delays (us)
 SBD 0.035406
 MBD -0.002537
 Fringe rate (Hz) 0.541528
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c171b
 Exper # 16383
 Yr:day 2017:090
 Start 153000.00
 Stop 153400.00
 FRT 153200.00
 Corr/FF/build
 2017:208:133600
 2017:213:123324
 2017:170:130423
 RA & Dec (J2000)
 02h24m28.4282s
 +6°59'23.342"



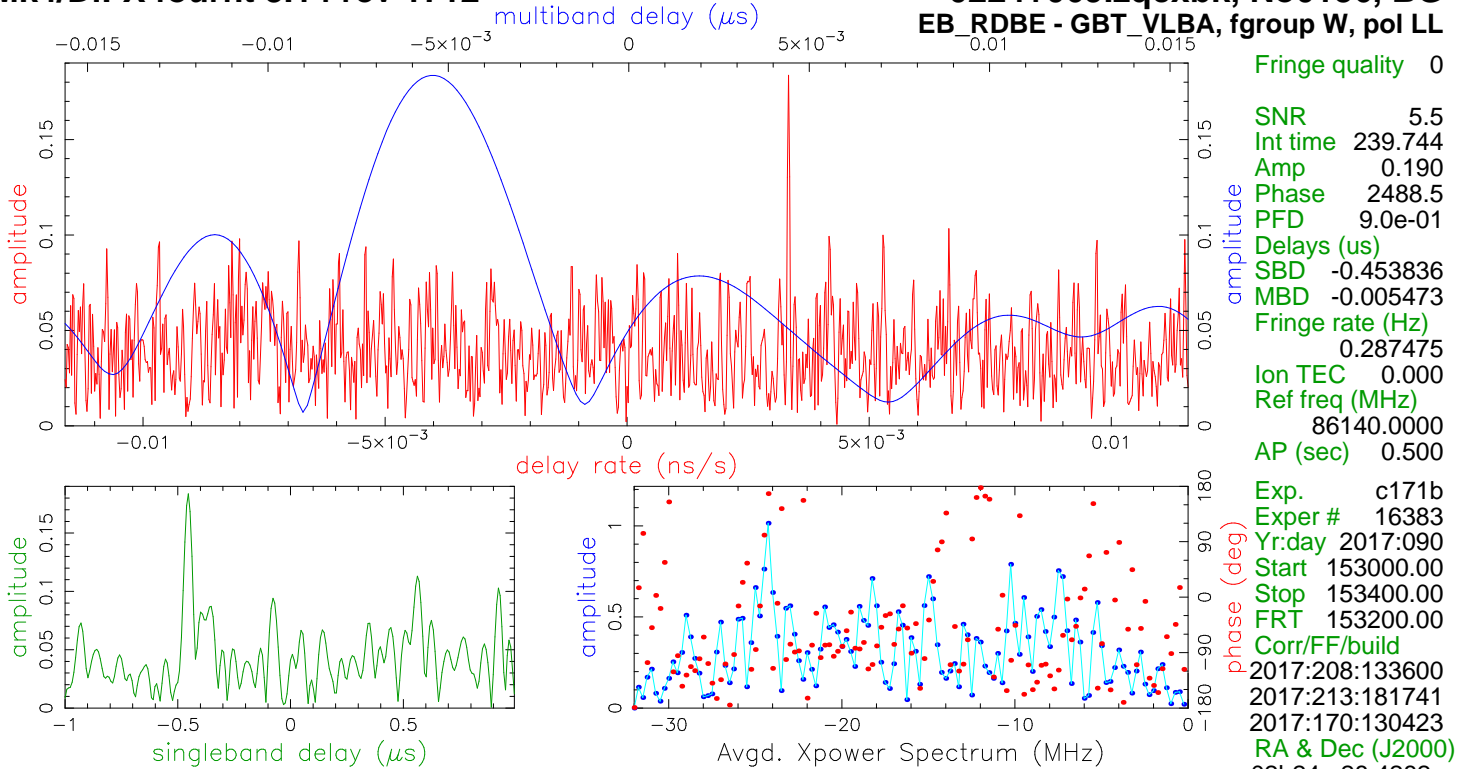
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



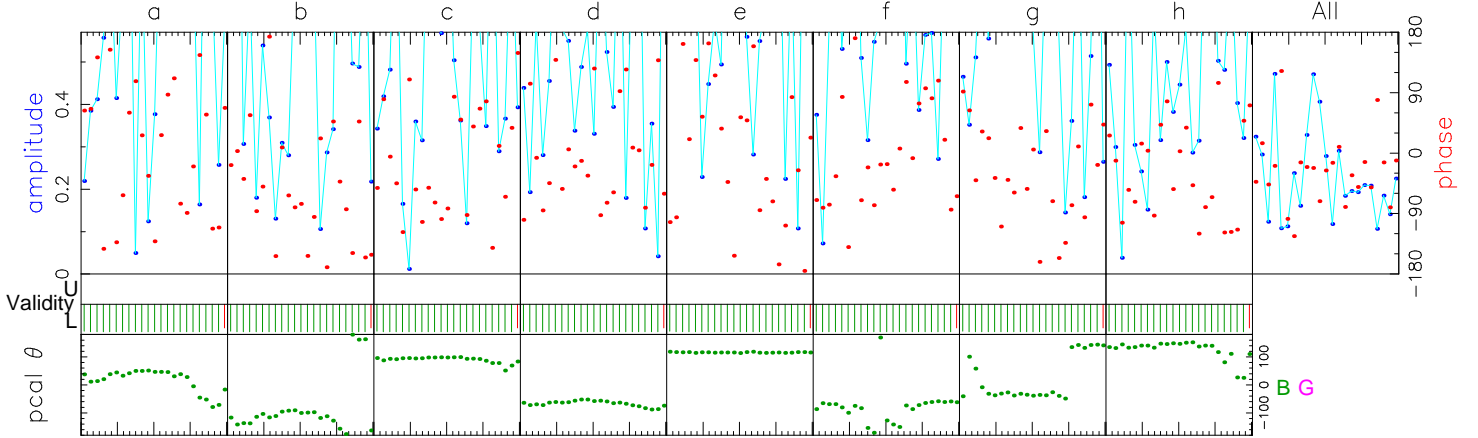
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-16.6	-84.4	14.0	-68.4	-37.3	-42.4	-107.3	-17.9	Phase	-40.3
	0.2	0.4	0.4	0.3	0.2	0.3	0.2	0.3	Ampl.	0.2
	81.2	133.3	133.8	99.8	130.8	132.0	60.1	209.1	Sbd box	133.5
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
B:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:G	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	
G	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

Group delay (usec)(sbd)	2.00616204122E+03	Apriori delay (usec)	2.00613332868E+03	Resid mbdelay (usec)	-2.53745E-03	+/-	3.7E-04
Sband delay (usec)	2.00616873468E+03	Apriori clock (usec)	3.9914131E+01	Resid sbdelay (usec)	3.54060E-02	+/-	2.9E-03
Phase delay (usec)	2.00613332738E+03	Apriori clockrate (us/s)	-2.7030011E-07	Resid phdelay (usec)	-1.29992E-06	+/-	6.3E-07
Delay rate (us/s)	-1.50736349550E+00	Apriori rate (us/s)	-1.50736978210E+00	Resid rate (us/s)	6.28661E-06	+/-	4.5E-09
Total phase (deg)	115.3	Apriori accel (us/s/s)	-8.36883634905E-06	Resid phase (deg)	-220.3	+/-	19.4

ph/seg (deg)	53.7	Theor.	46.6	Amplitude	0.223 +/- 0.038	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	62.9	Search (1024X32)	0.183	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	43.3	Inc. seg. avg.	0.205	Inc. frq. avg.	0.247	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	46.8	Inc. frq. avg.	0.247	u,v (fr/asec)	8691.731 1240.562	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
						Data rate(Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00

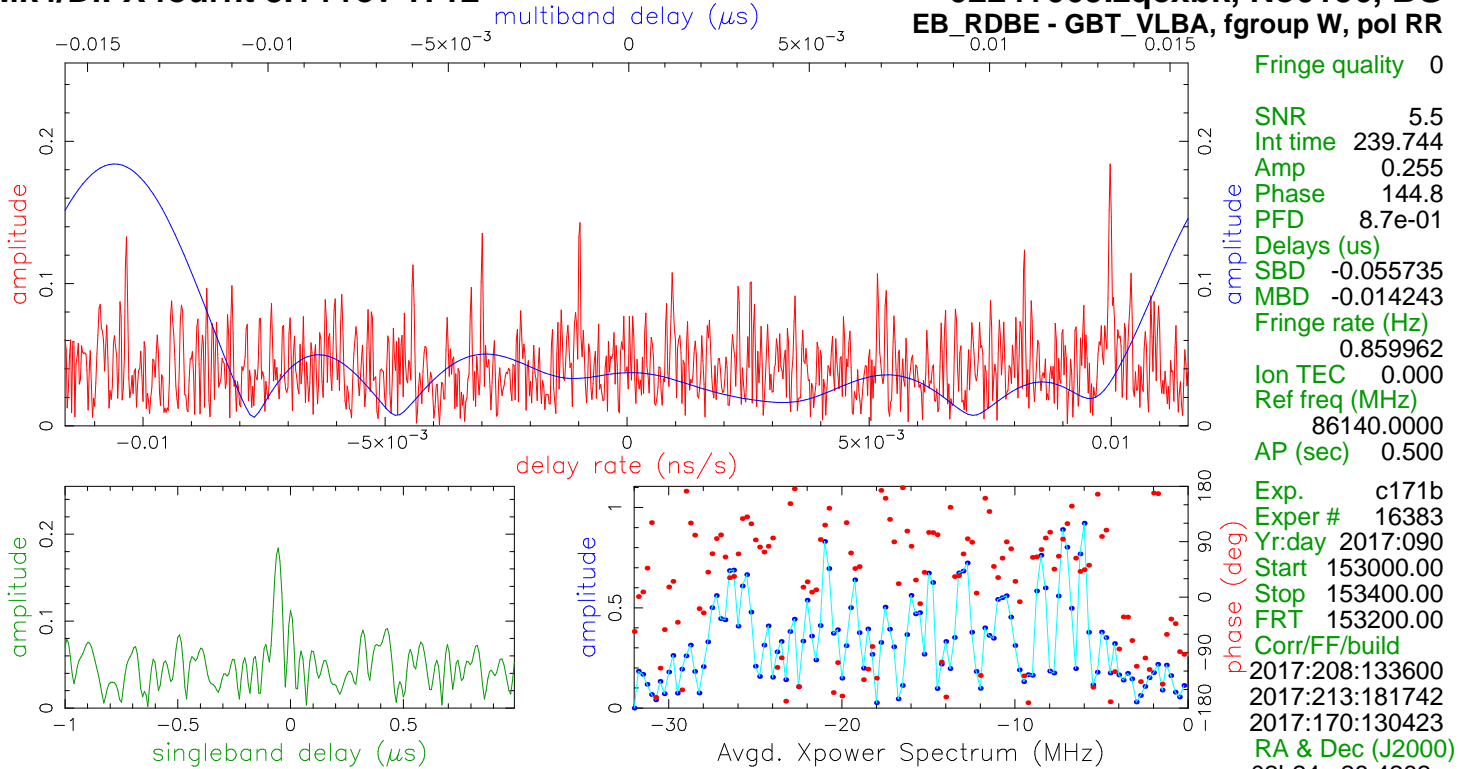


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

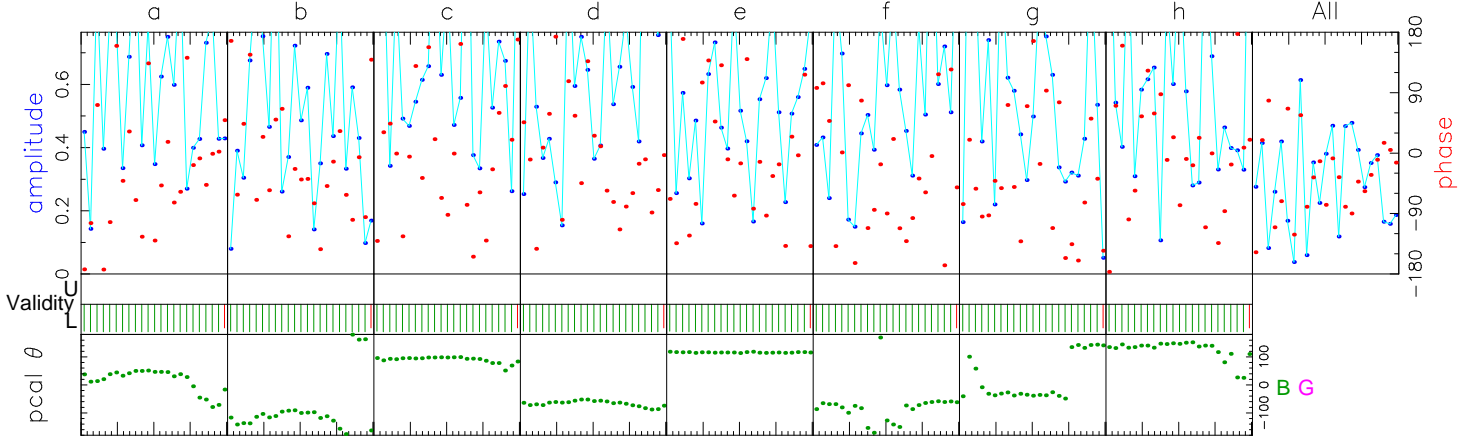


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
42.5	-58.0	-37.9	-25.7	-148.1	-26.6	-17.4	-43.2	Phase	-31.5
0.1	0.3	0.2	0.3	0.1	0.3	0.4	0.2	Ampl.	0.2
159.9	72.1	3.6	68.1	198.8	31.8	71.7	97.0	Sbd box	70.9
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G 0	0	0	0	0	0	0	0	PC freqs	
B:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:G 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	
G 1000	1000	1000	1000	1000	1000	1000	1000		
B W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
G W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
Group delay (usec)(sbd)	2.00569035556E+03	Apriori delay (usec)	2.00613332868E+03	Resid mbdelay (usec)	-5.47312E-03	+/-	3.9E-04		
Sband delay (usec)	2.00567949268E+03	Apriori clock (usec)	3.9914131E+01	Resid sbdelay (usec)	-4.53836E-01	+/-	3.1E-03		
Phase delay (usec)	2.00613332766E+03	Apriori clockrate (us/s)	-2.7030011E-07	Resid phdelay (usec)	-1.01594E-06	+/-	6.7E-07		
Delay rate (us/s)	-1.50736644480E+00	Apriori rate (us/s)	-1.50736978210E+00	Resid rate (us/s)	3.33731E-06	+/-	4.8E-09		
Total phase (deg)	2824.1	Apriori accel (us/s/s)	-8.36883634905E-06	Resid phase (deg)	2488.5	+/-	20.8		

ph/seg (deg)	52.1	Theor.	50.0	Amplitude	0.190 +/- 0.035	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	64.2	Search (1024X32)	0.179	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	58.0	Interp.	0.000	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	49.5	Inc. seg. avg.	0.175	Inc. seg. avg.	0.175	Sample rate (MSamp/s):	64	mb window (us)	-0.016 0.016
		Inc. frq. avg.	0.191	Inc. frq. avg.	0.191	Data rate (Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	t_cohere	infinite
								ion window (TEC)	0.00 0.00

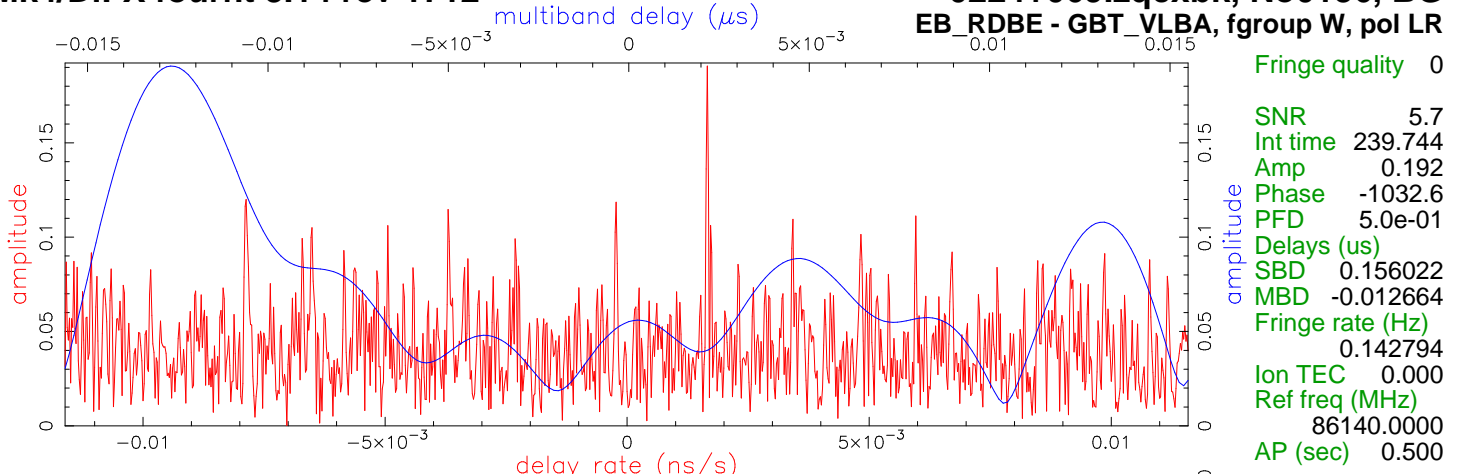


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-41.0	-22.9	-43.5	-30.6	-48.9	-46.6	-36.2	-24.6	Phase	-35.2
	0.3	0.3	0.2	0.4	0.2	0.2	0.3	0.2	Ampl.	0.2
	80.7	77.2	1.4	120.8	142.3	160.4	96.0	108.2	Sbd box	121.9
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
B:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		2.00608783605E+03		Apriori delay (usec)		2.00613332868E+03		Resid mbdelay (usec)		-1.42426E-02 +/- 3.9E-04
Sband delay (usec)		2.00607759318E+03		Apriori clock (usec)		3.9914131E+01		Resid sbdelay (usec)		-5.57355E-02 +/- 3.1E-03
Phase delay (usec)		2.00613332754E+03		Apriori clockrate (us/s)		-2.7030011E-07		Resid phdelay (usec)		-1.13484E-06 +/- 6.7E-07
Delay rate (us/s)		-1.50735979880E+00		Apriori rate (us/s)		-1.50736978210E+00		Resid rate (us/s)		9.98331E-06 +/- 4.8E-09
Total phase (deg)		480.4		Apriori accel (us/s/s)		-8.36883634905E-06		Resid phase (deg)		144.8 +/- 20.8

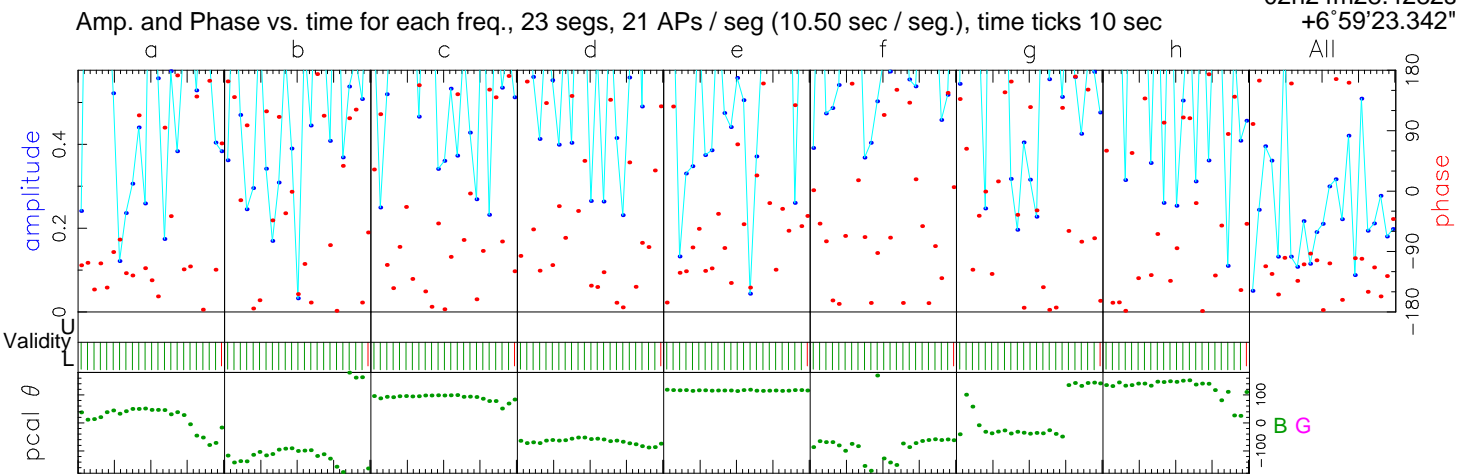
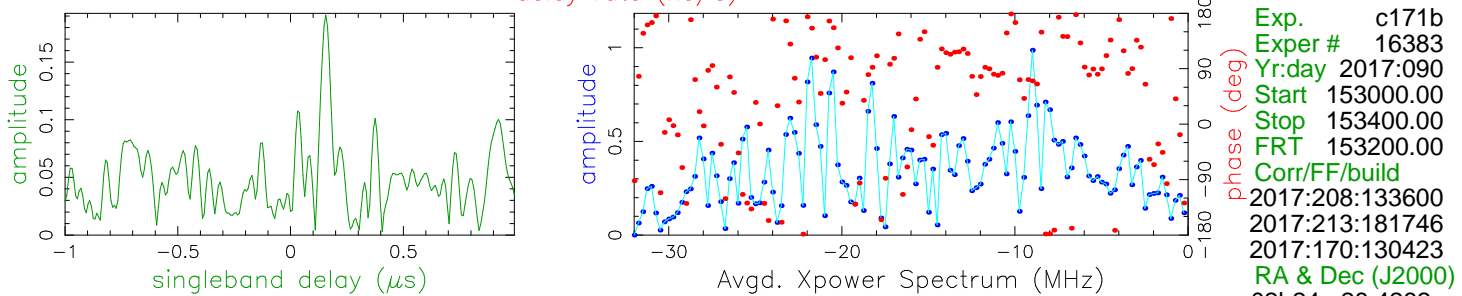
ph/seg (deg) 58.1 49.8 Search (1024X32) 0.177 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 101.1 86.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 10.9 29.4 Inc. seg. avg. 0.295 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 29.2 51.3 Inc. frq. avg. 0.228 Data rate (Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 B: az 222.9 el 38.9 pa 25.8 G: az 108.0 el 31.9 pa -48.5 u,v (fr/asec) 8691.731 1240.562 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/BG..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/BG.W.274.zqcxbk



Fringe quality 0

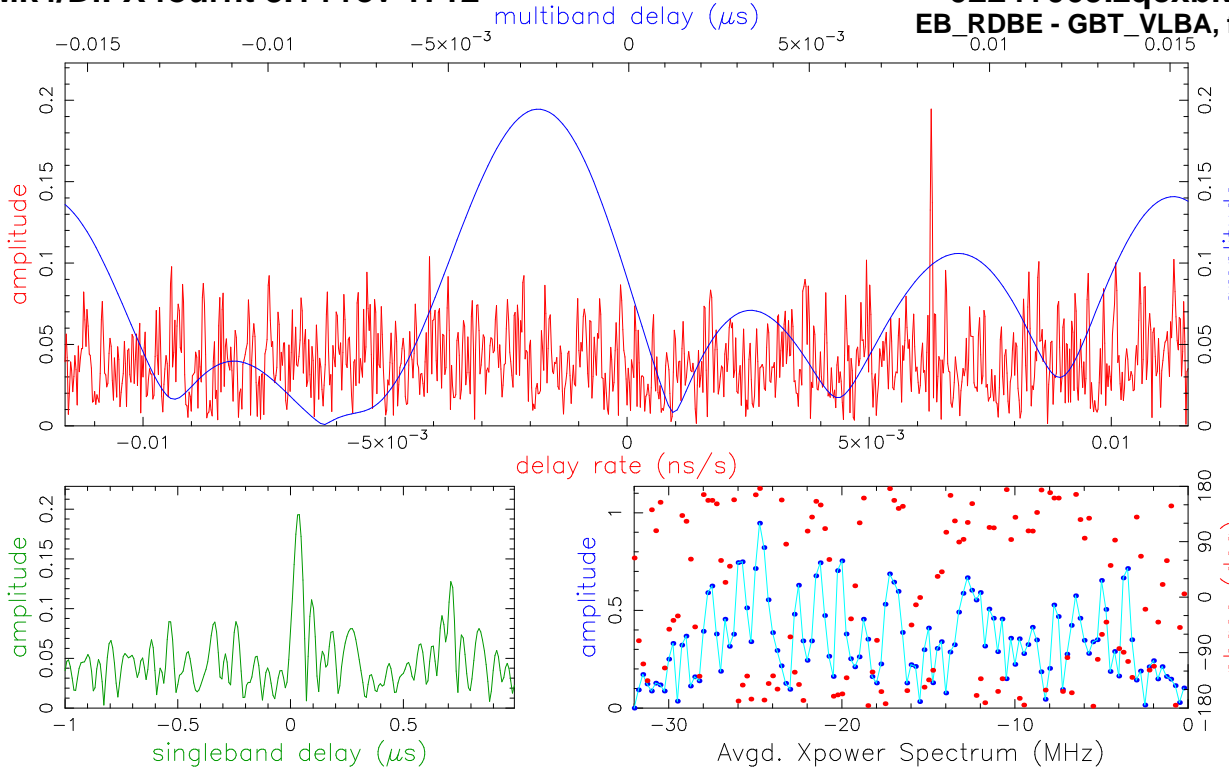
SNR 5.7
Int time 239.744
Amp 0.192
Phase -1032.6
PFD 5.0e-01
Delays (us)
SBD 0.156022
MBD -0.012664
Fringe rate (Hz)
0.142794
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 153000.00
Stop 153400.00
FRT 153200.00
Corr/FF/build
2017:208:133600
2017:213:181746
2017:170:130423
RA & Dec (J2000)
02h24m28.4282s
+6°59'23.342"



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-135.2	170.3	-128.6	-114.7	-72.8	-106.7	-157.0	-170.6	Phase	-132.6
	0.4	0.2	0.3	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
	149.3	178.3	147.3	106.0	134.6	48.0	214.3	156.9	Sbd box	149.0
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
B:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:G	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	
G	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.00627691489E+03		Apriori delay (usec)		2.00613332868E+03		Resid mbdelay (usec)		-1.26638E-02	+/- 3.8E-04
Sband delay (usec)	2.00628935068E+03		Apriori clock (usec)		3.9914131E+01		Resid sbdelay (usec)		1.56022E-01	+/- 3.0E-03
Phase delay (usec)	2.00613332440E+03		Apriori clockrate (us/s)		-2.7030011E-07		Resid phdelay (usec)		-4.27479E-06	+/- 6.5E-07
Delay rate (us/s)	-1.50736812440E+00		Apriori rate (us/s)		-1.50736978210E+00		Resid rate (us/s)		1.65770E-06	+/- 4.7E-09
Total phase (deg)			Apriori accel (us/s/s)		-8.36883634905E-06		Resid phase (deg)		-1032.6	+/- 20.1

ph/seg (deg) 47.5 48.1 Search (1024X32) 0.187 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 80.3 84.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 40.6 28.4 Inc. seg. avg. 0.186 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 43.3 49.5 Inc. frq. avg. 0.203 Data rate (Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 B: az 222.9 el 38.9 pa 25.8 G: az 108.0 el 31.9 pa -48.5 u,v (fr/asec) 8691.731 1240.562 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/BG..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/BG.W.275.zqcxbk simultaneous interpolator

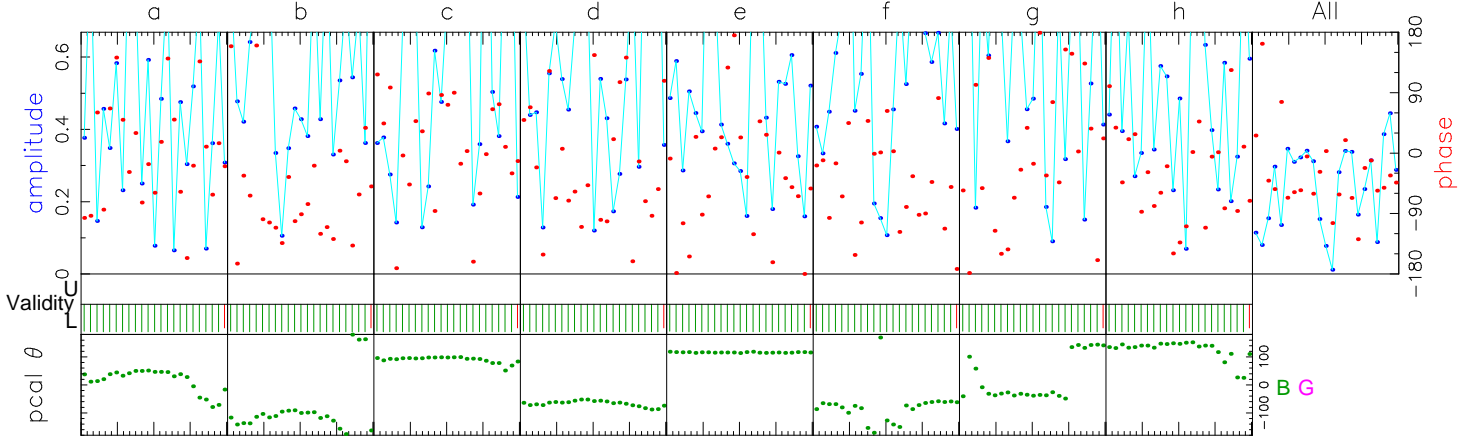


Fringe quality 0

SNR 5.9
 Int time 239.744
 Amp 0.223
 Phase -220.3
 PFD 2.1e-01
 Delays (us)
 SBD 0.035406
 MBD -0.002537
 Fringe rate (Hz)
 0.541528
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500

Exp. c171b
 Exper # 16383
 Yr:day 2017:090
 Start 153000.00
 Stop 153400.00
 FRT 153200.00
 Corr/FF/build
 2017:208:133600
 2017:213:181747
 2017:170:130423
 RA & Dec (J2000)
 02h24m28.4282s
 +6°59'23.342"

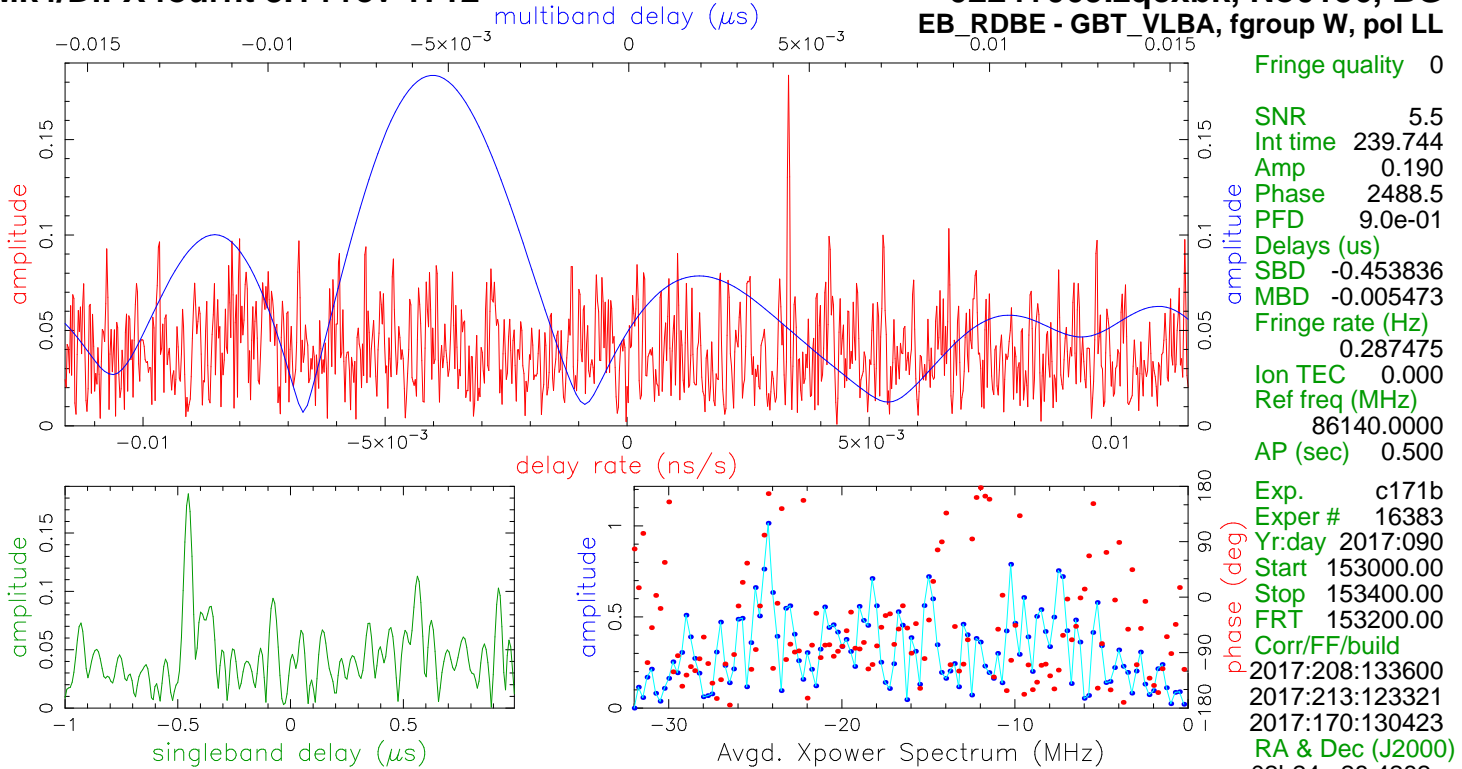
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-16.6	-84.4	14.0	-68.4	-37.3	-42.4	-107.3	-17.9	Phase	-40.3
	0.2	0.4	0.4	0.3	0.2	0.3	0.2	0.3	Ampl.	0.2
	81.2	133.3	133.8	99.8	130.8	132.0	60.1	209.1	Sbd box	133.5
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
B:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

Group delay (usec)(sbd)	2.00616204122E+03	Apriori delay (usec)	2.00613332868E+03	Resid mbdelay (usec)	-2.53745E-03	+/-	3.7E-04
Sband delay (usec)	2.00616873468E+03	Apriori clock (usec)	3.9914131E+01	Resid sbdelay (usec)	3.54060E-02	+/-	2.9E-03
Phase delay (usec)	2.00613332738E+03	Apriori clockrate (us/s)	-2.7030011E-07	Resid phdelay (usec)	-1.29992E-06	+/-	6.3E-07
Delay rate (us/s)	-1.50736349550E+00	Apriori rate (us/s)	-1.50736978210E+00	Resid rate (us/s)	6.28661E-06	+/-	4.5E-09
Total phase (deg)	115.3	Apriori accel (us/s/s)	-8.36883634905E-06	Resid phase (deg)	-220.3	+/-	19.4

ph/seg (deg)	53.7	Theor.	46.6	Amplitude	0.223 +/- 0.038	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	62.9	Search (1024X32)	0.183	Apriori clock (usec)	0.183	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	43.3	Interp.	0.000	Apriori clockrate (us/s)	-2.7030011E-07	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	46.8	Inc. seg. avg.	0.205	Apriori rate (us/s)	-1.50736978210E+00	Sample rate (MSamp/s):	64	mb window (us)	-0.016 0.016
		Inc. frq. avg.	0.247	Apriori accel (us/s/s)	-8.36883634905E-06	Data rate (Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00

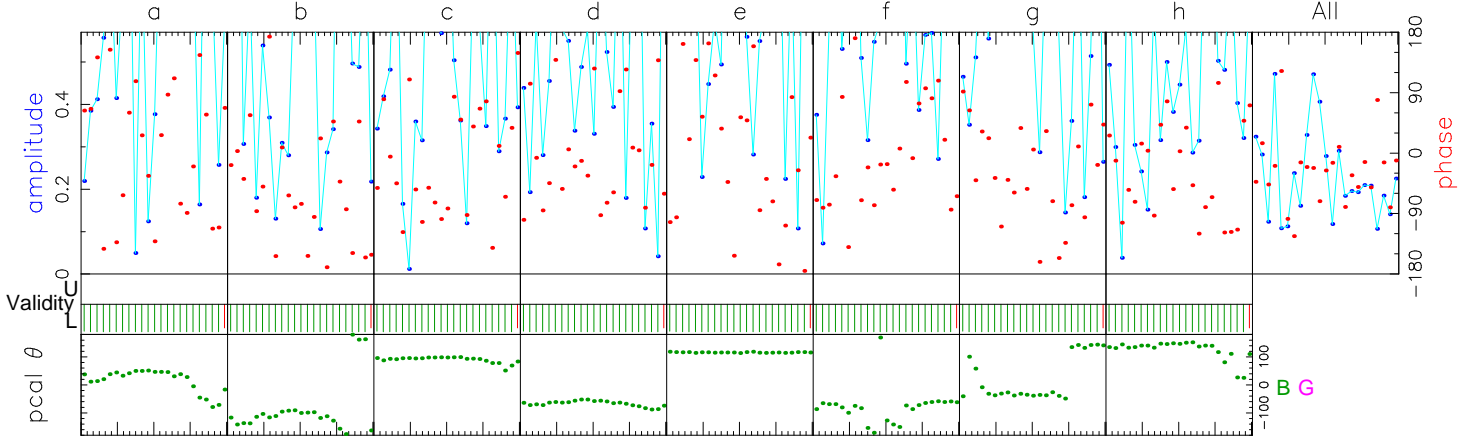


Fringe quality 0

SNR 5.5
Int time 239.744
Amp 0.190
Phase 2488.5
PFD 9.0e-01
Delays (us)
SBD -0.453836
MBD -0.005473
Fringe rate (Hz)
0.287475
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 153000.00
Stop 153400.00
FRT 153200.00
Corr/FF/build
2017:208:133600
2017:213:123321
2017:170:130423
RA & Dec (J2000)
02h24m28.4282s
+6°59'23.342"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

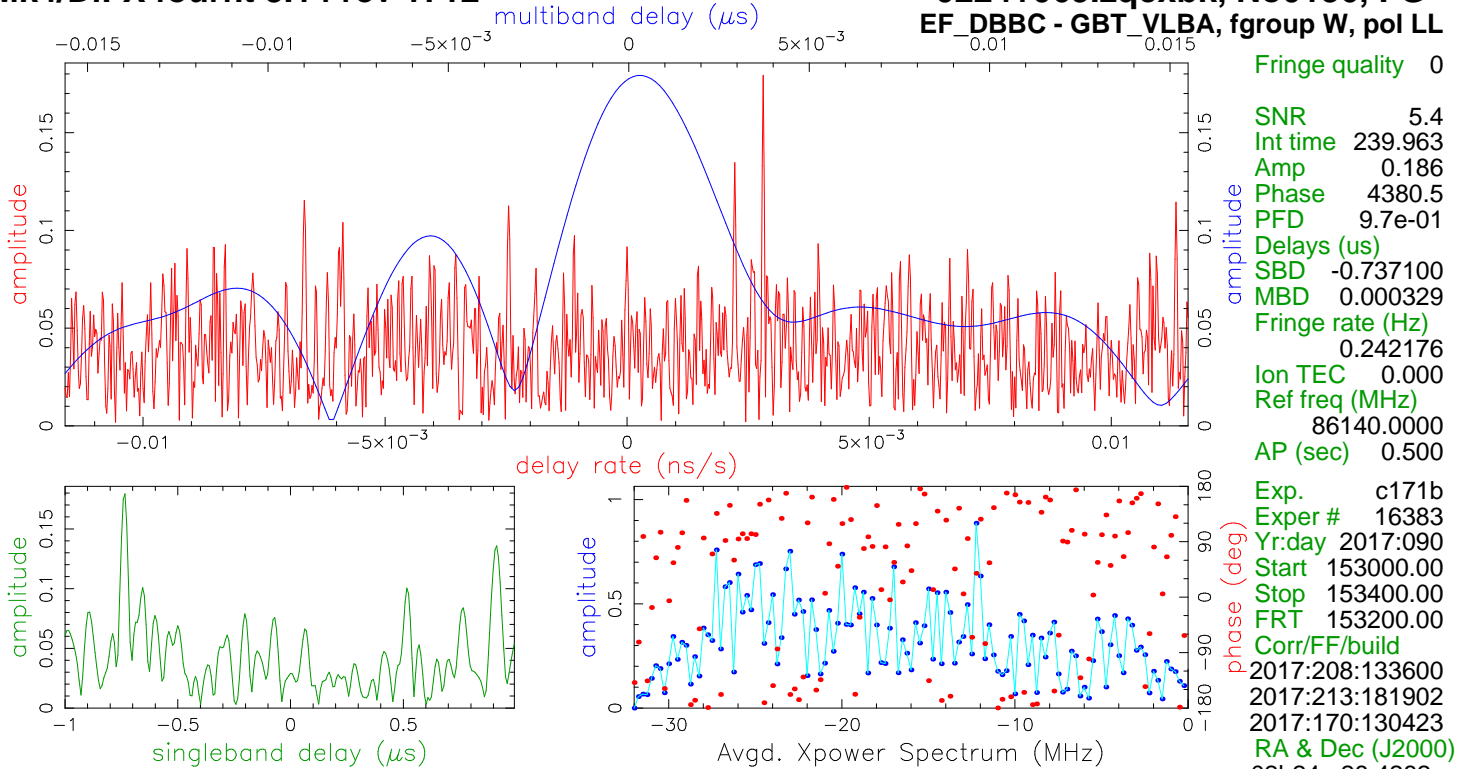


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
42.5	-58.0	-37.9	-25.7	-148.1	-26.6	-17.4	-43.2	Phase	-31.5
0.1	0.3	0.2	0.3	0.1	0.3	0.4	0.2	Ampl.	0.2
159.9	72.1	3.6	68.1	198.8	31.8	71.7	97.0	Sbd box	70.9
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G 0	0	0	0	0	0	0	0	PC freqs	
B:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:G 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	
G 1000	1000	1000	1000	1000	1000	1000	1000		
B W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
G W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
Group delay (usec)(sbd)		2.00569035556E+03	Apriori delay (usec)		2.00613332868E+03	Resid mbdelay (usec)		-5.47312E-03	+/- 3.9E-04
Sband delay (usec)		2.00567949268E+03	Apriori clock (usec)		3.9914131E+01	Resid sbdelay (usec)		-4.53836E-01	+/- 3.1E-03
Phase delay (usec)		2.00613332766E+03	Apriori clockrate (us/s)		-2.7030011E-07	Resid phdelay (usec)		-1.01594E-06	+/- 6.7E-07
Delay rate (us/s)		-1.50736644480E+00	Apriori rate (us/s)		-1.50736978210E+00	Resid rate (us/s)		3.33731E-06	+/- 4.8E-09
Total phase (deg)		2824.1	Apriori accel (us/s/s)		-8.36883634905E-06	Resid phase (deg)		2488.5	+/- 20.8

ph/seg (deg) 52.1 50.0 Theor. Amplitude 0.190 +/- 0.035 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 64.2 87.2 Search (1024X32) 0.179 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 58.0 29.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 49.5 51.4 Inc. seg. avg. 0.175 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 Inc. frq. avg. 0.191 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

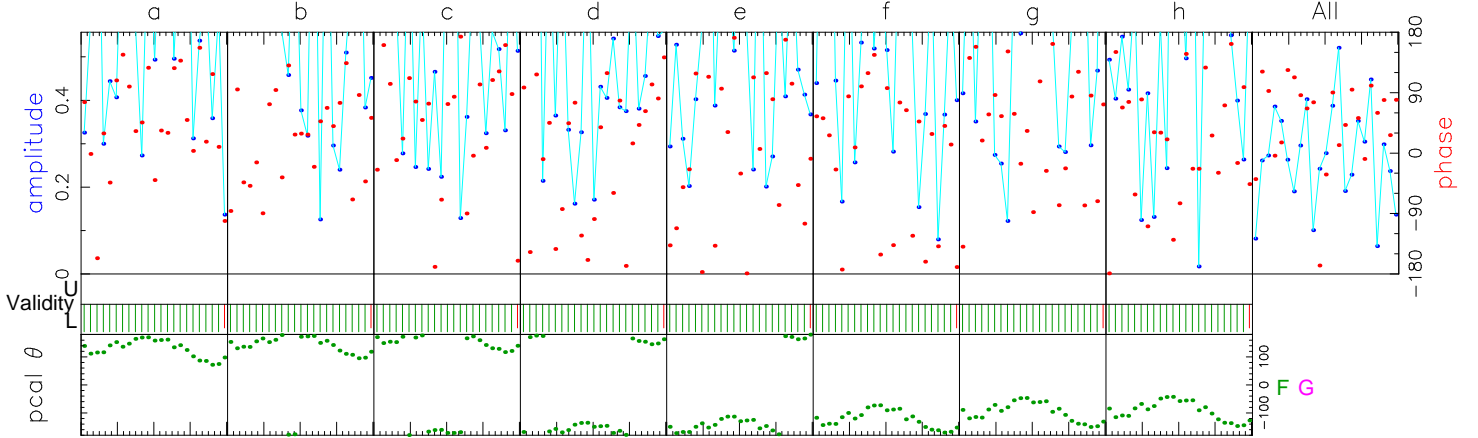
B: az 222.9 el 38.9 pa 25.8 G: az 108.0 el 31.9 pa -48.5 u,v (fr/asec) 8691.731 1240.562 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/BG..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/BG.W.9.zqcxbk

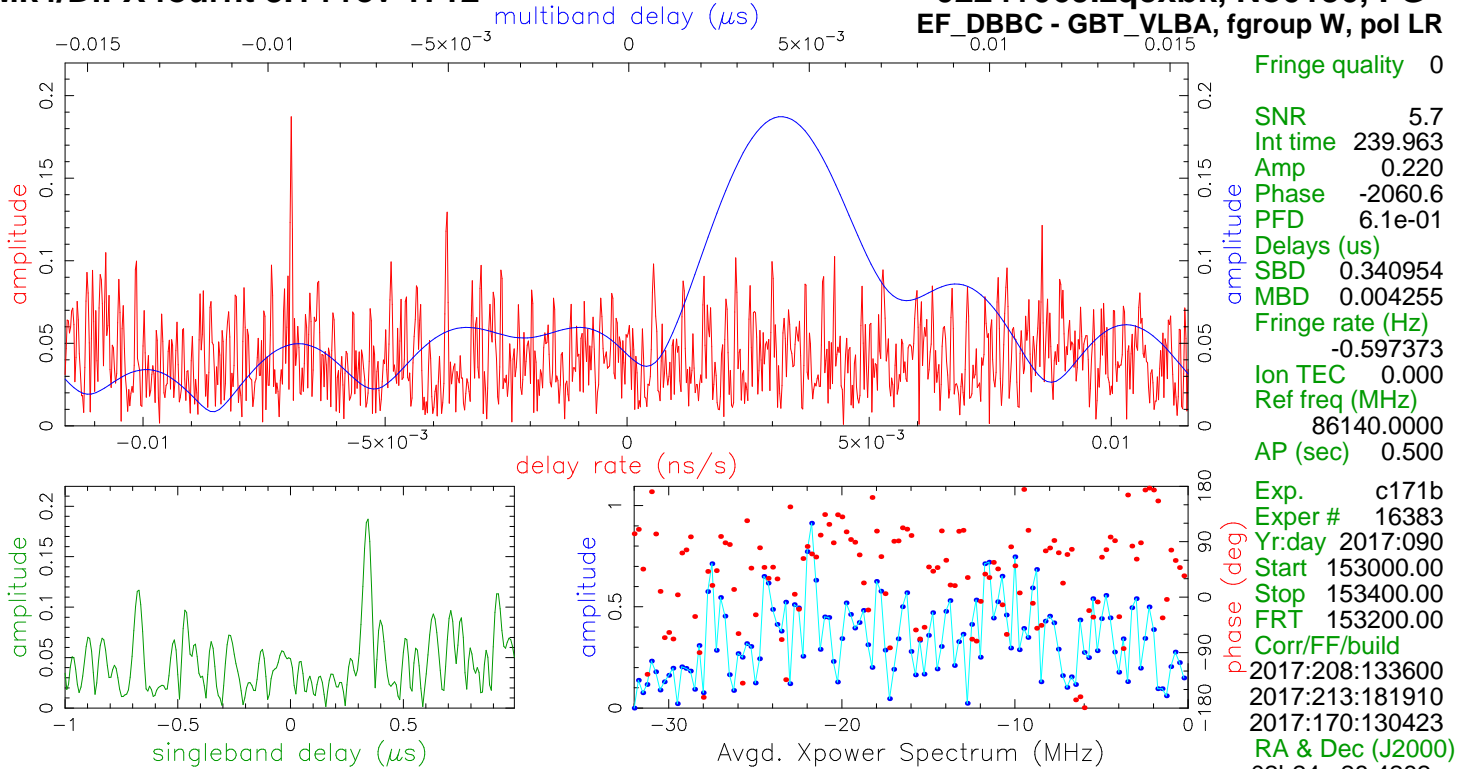


Fringe quality 0
 SNR 5.4
 Int time 239.963
 Amp 0.186
 Phase 4380.5
 PFD 9.7e-01
 Delays (us)
 SBD -0.737100
 MBD 0.000329
 Fringe rate (Hz)
 0.242176
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500
 Exp. c171b
 Exper # 16383
 Yr:day 2017:090
 Start 153000.00
 Stop 153400.00
 FRT 153200.00
 Corr/FF/build
 2017:208:133600
 2017:213:181902
 2017:170:130423
 RA & Dec (J2000)
 02h24m28.4282s
 +6°59'23.342"

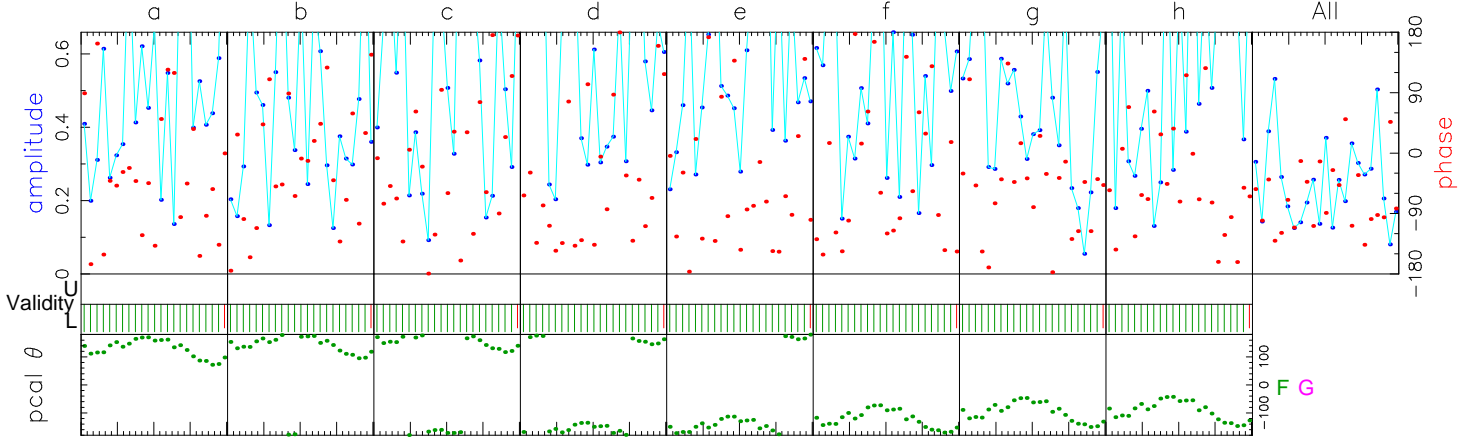
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
	65.8	16.7	78.2	98.1	107.9	70.9	57.3	-2.7	Phase	60.5	
	0.3	0.3	0.3	0.2	0.0	0.3	0.2	0.1	Ampl.	0.2	
	198.6	34.6	248.3	242.8	46.5	36.4	14.5	2.8	Sbd box	34.7	
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used		
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
G	0	0	0	0	0	0	0	0	PC freqs		
F:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
F:G	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		
G	1000	1000	1000	1000	1000	1000	1000	1000			
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks		
									Chan ids		
									Tracks		
Group delay (usec)(sbd)	2.00486365780E+03		Apriori delay (usec)		2.00561332868E+03		Resid mbdelay (usec)		3.29121E-04	+/- 4.0E-04	
Sband delay (usec)	2.00487622818E+03		Apriori clock (usec)		3.9394127E+01		Resid sbdelay (usec)		-7.37100E-01	+/- 3.2E-03	
Phase delay (usec)	2.00561333063E+03		Apriori clockrate (us/s)		-2.7030011E-07		Resid phdelay (usec)		1.95144E-06	+/- 6.8E-07	
Delay rate (us/s)	-1.50736697069E+00		Apriori rate (us/s)		-1.50736978210E+00		Resid rate (us/s)		2.81142E-06	+/- 4.9E-09	
Total phase (deg)	4428.2		Apriori accel (us/s/s)		-8.36883634905E-06		Resid phase (deg)		4380.5	+/- 21.1	
	RMS	Theor.	Amplitude	0.186 +/- 0.034		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	54.2	50.6	Search (1024X32)	0.176		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000	
amp/seg (%)	81.0	88.4	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	40.9	29.9	Inc. seg. avg.	0.202		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012	
amp/frq (%)	49.5	52.1	Inc. frq. avg.	0.185		Data rate(Mb/s): 1024		nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00

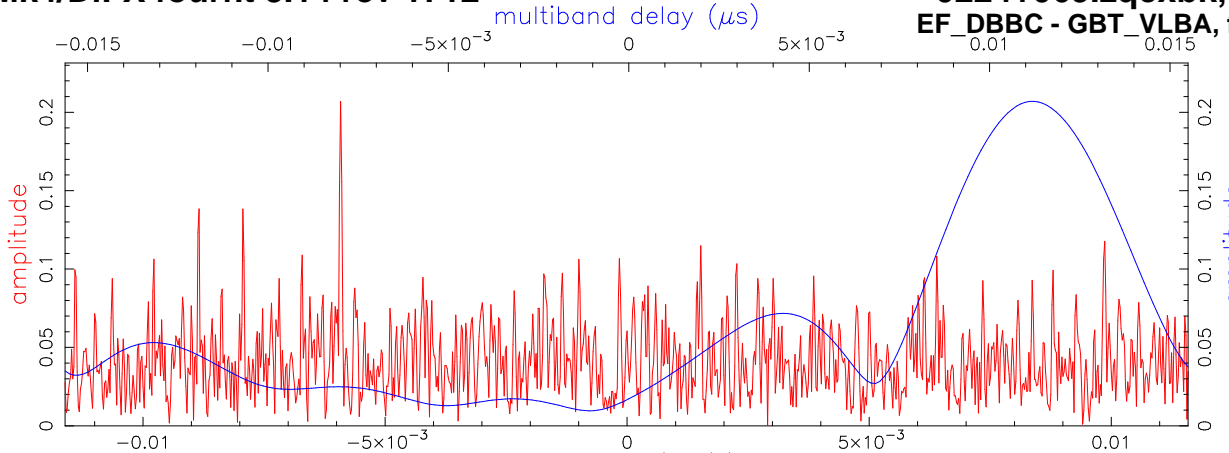


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

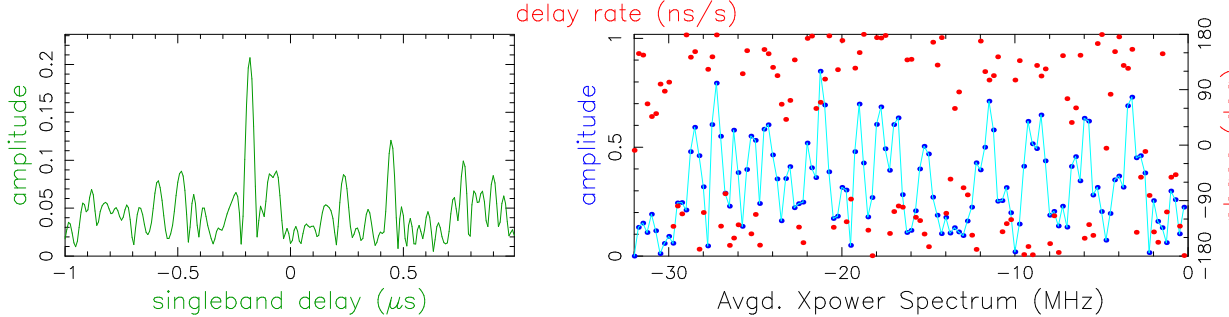


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-70.0	-18.5	-87.5	-109.6	-106.9	-109.3	-51.6	-66.2	Phase	-80.6
0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.3	Ampl.	0.2
255.0	226.3	75.2	1.5	12.8	126.6	246.0	193.6	Sbd box	172.6
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
F -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G 0	0	0	0	0	0	0	0	PC freqs	
F:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:G 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	
G 1000	1000	1000	1000	1000	1000	1000	1000		
F W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
G W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	2.00596133389E+03	Apriori delay (usec)	2.00561332868E+03	Resid mbdelay (usec)	4.25521E-03	+/-	3.8E-04		
Sband delay (usec)	2.00595428268E+03	Apriori clock (usec)	3.9394127E+01	Resid sbdelay (usec)	3.40954E-01	+/-	3.0E-03		
Phase delay (usec)	2.00561332608E+03	Apriori clockrate (us/s)	-2.7030011E-07	Resid phdelay (usec)	-2.59848E-06	+/-	6.5E-07		
Delay rate (us/s)	-1.50737671701E+00	Apriori rate (us/s)	-1.50736978210E+00	Resid rate (us/s)	-6.93491E-06	+/-	4.7E-09		
Total phase (deg)	-2012.9	Apriori accel (us/s/s)	-8.36883634905E-06	Resid phase (deg)	-2060.6	+/-	20.3		

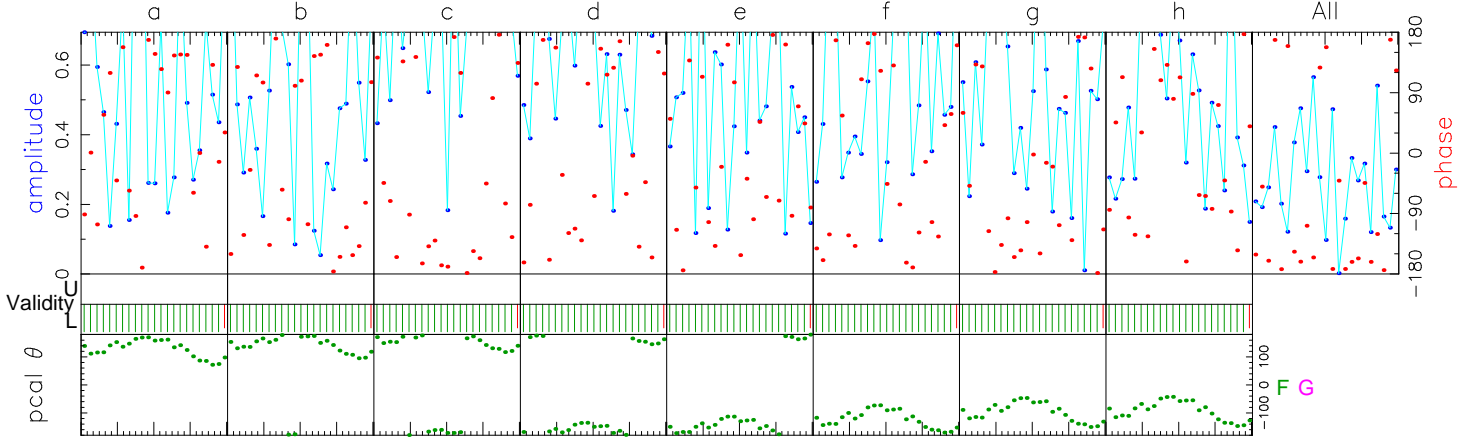
ph/seg (deg)	52.8	Theor.	48.6	Amplitude	0.220 +/- 0.039	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	70.3	Search (1024X32)	0.183	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	35.2	Interp.	0.000	Inc. seg. avg.	0.216	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	30.4	Inc. frq. avg.	0.220	Inc. frq. avg.	0.220	Sample rate (MSamp/s):	64	mb window (us)	-0.016 0.016
						Data rate (Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00



Fringe quality 0
 SNR 6.2
 Int time 239.963
 Amp 0.231
 Phase 920.3
 PFD 3.4e-02
 Delays (us)
 SBD -0.181047
 MBD 0.011192
 Fringe rate (Hz)
 -0.509390
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500
 Exp. c171b
 Exper # 16383
 Yr:day 2017:090
 Start 153000.00
 Stop 153400.00
 FRT 153200.00
 Corr/FF/build
 2017:208:133600
 2017:213:181911
 2017:170:130423
 RA & Dec (J2000)
 02h24m28.4282s
 +6°59'23.342"

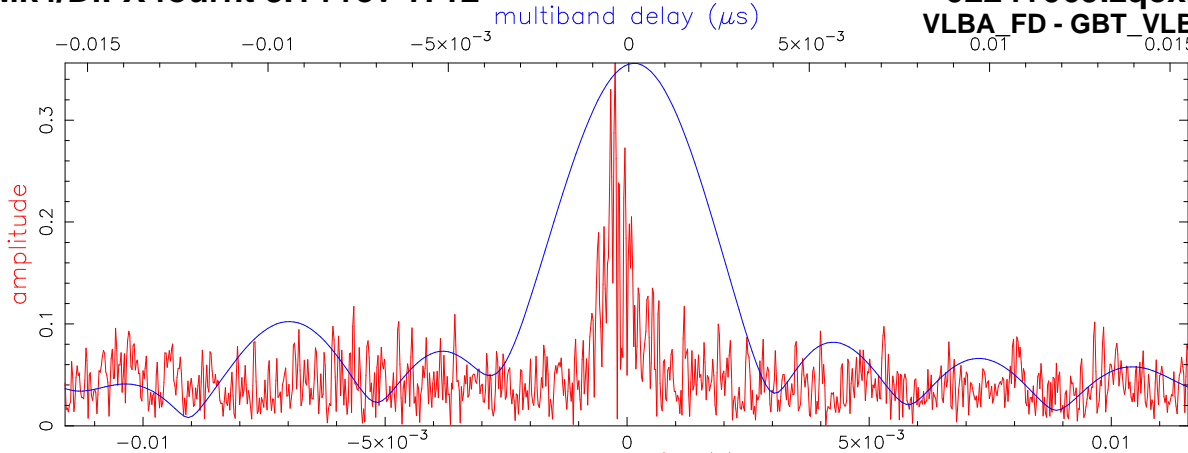


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

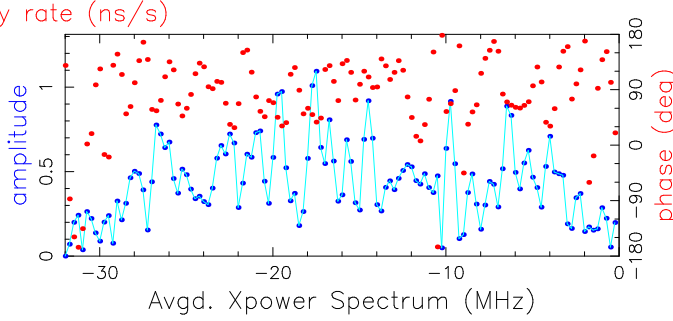
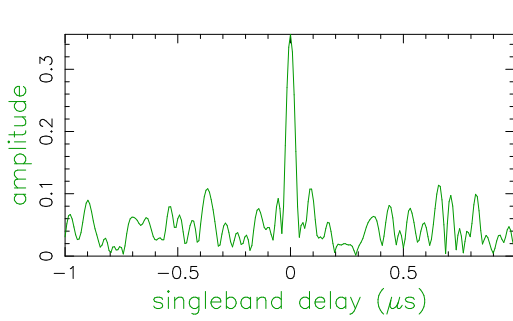


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-170.0	-155.9	-159.0	-166.4	-144.6	-159.1	-149.7	159.6	Phase	-159.7
	0.1	0.3	0.4	0.3	0.1	0.3	0.3	0.1	Ampl.	0.2
	12.9	53.9	105.6	236.8	170.5	227.2	197.8	62.2	Sbd box	105.8
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
F:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:G	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	
G	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.00543702020E+03		Apriori delay (usec)		2.00561332868E+03		Resid mbdelay (usec)		1.11915E-02	+/- 3.5E-04
Sband delay (usec)	2.00543228218E+03		Apriori clock (usec)		3.9394127E+01		Resid sbdelay (usec)		-1.81047E-01	+/- 2.8E-03
Phase delay (usec)	2.00561332353E+03		Apriori clockrate (us/s)		-2.7030011E-07		Resid phdelay (usec)		-5.14997E-06	+/- 5.9E-07
Delay rate (us/s)	-1.50737569561E+00		Apriori rate (us/s)		-1.50736978210E+00		Resid rate (us/s)		-5.91351E-06	+/- 4.3E-09
Total phase (deg)	967.9		Apriori accel (us/s/s)		-8.36883634905E-06		Resid phase (deg)		920.3	+/- 18.4

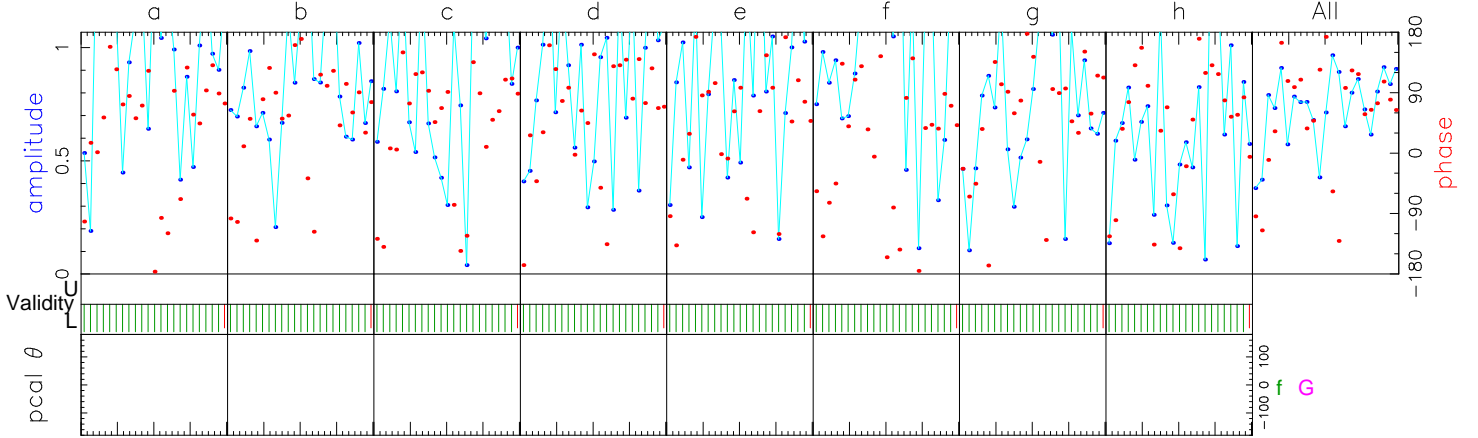
ph/seg (deg) 51.5 44.2 Theor. Amplitude 0.231 +/- 0.037 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 77.4 77.2 Search (1024X32) 0.202 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 18.9 26.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 49.0 45.5 Inc. seg. avg. 0.235 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 F: az 222.9 el 38.9 pa 26.1 G: az 108.0 el 31.9 pa -48.5 u,v (fr/asec) 8691.731 1240.562 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/FG../zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/FG.W.304.zqcxbk simultaneous interpolator



Fringe quality 9
SNR 10.7
Int time 239.989
Amp 0.356
Phase 89.8
PFD 1.7e-18
Delays (us)
SBD -0.000659
MBD 0.000156
Fringe rate (Hz)
-0.021636
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500
Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 153000.00
Stop 153400.00
FRT 153200.00
Corr/FF/build
2017:208:133600
2017:213:182017
2017:170:130423
RA & Dec (J2000)
02h24m28.4282s
+6°59'23.342"



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

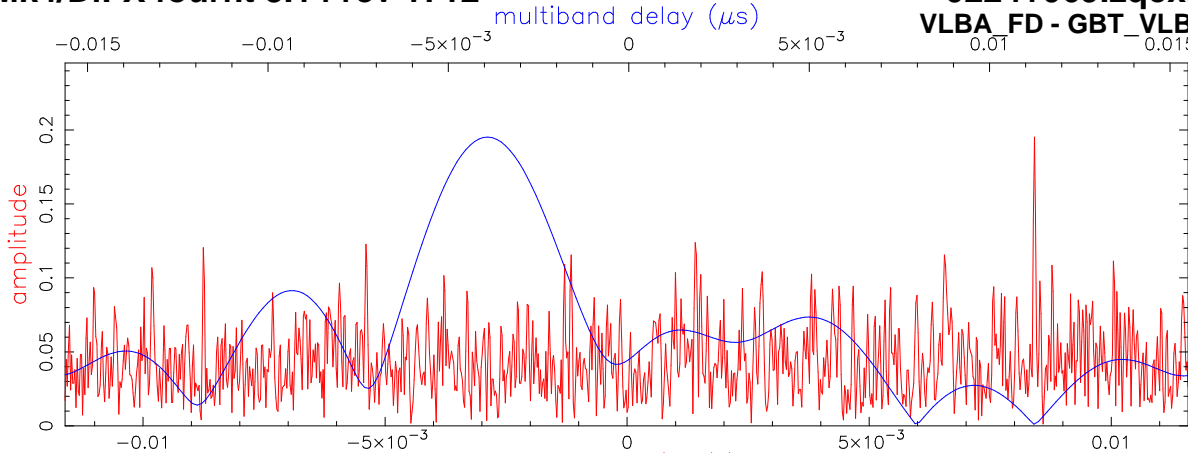


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	92.9	86.6	90.8	95.6	77.1	83.2	94.6	91.8	Phase	89.8
	0.4	0.3	0.4	0.5	0.4	0.2	0.3	0.3	Ampl.	0.3
	129.0	130.3	128.4	129.5	128.2	73.2	128.3	128.0	Sbd box	128.9
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:G	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	
G	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

Group delay (usec)(sbd)	-6.26649110559E+03	Apriori delay (usec)	-6.26649126110E+03	Resid mbdelay (usec)	1.55508E-04	+/-	2.0E-04
Sband delay (usec)	-6.26649191960E+03	Apriori clock (usec)	1.0550821E+01	Resid sbdelay (usec)	-6.58500E-04	+/-	1.6E-03
Phase delay (usec)	-6.26649125820E+03	Apriori clockrate (us/s)	-6.5280756E-07	Resid phdelay (usec)	2.89586E-06	+/-	3.5E-07
Delay rate (us/s)	3.20800392125E-01	Apriori rate (us/s)	3.20800643301E-01	Resid rate (us/s)	-2.51175E-07	+/-	2.5E-09
Total phase (deg)	6.6	Apriori accel (us/s/s)	3.18225635425E-05	Resid phase (deg)	89.8	+/-	10.7

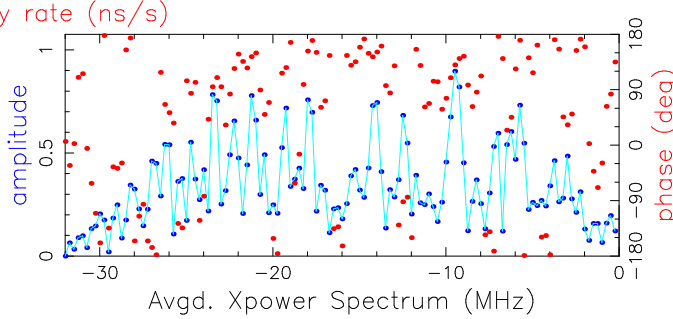
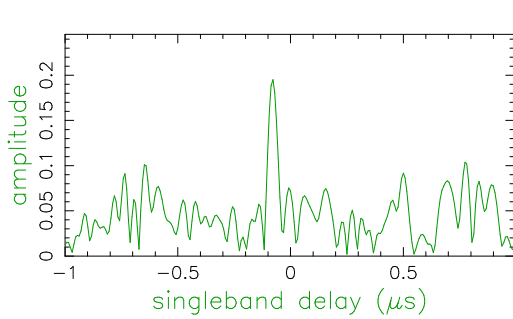
ph/seg (deg)	RMS 76.3	Theor. 25.8	Amplitude Search (1024X32)	0.356 +/- 0.033	0.351	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	115.2	45.0	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	6.9	15.2	Inc. seg. avg.	0.667	0.667	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.012	0.012
amp/frq (%)	24.3	26.5	Inc. frq. avg.	0.346	0.346	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 89.7 el 13.4 pa -60.1 G: az 108.0 el 31.9 pa -48.5 u,v (fr/asec) -1828.662 -674.045 simultaneous interpolator
Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/fG.zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/fG.W.325.zqcxbk



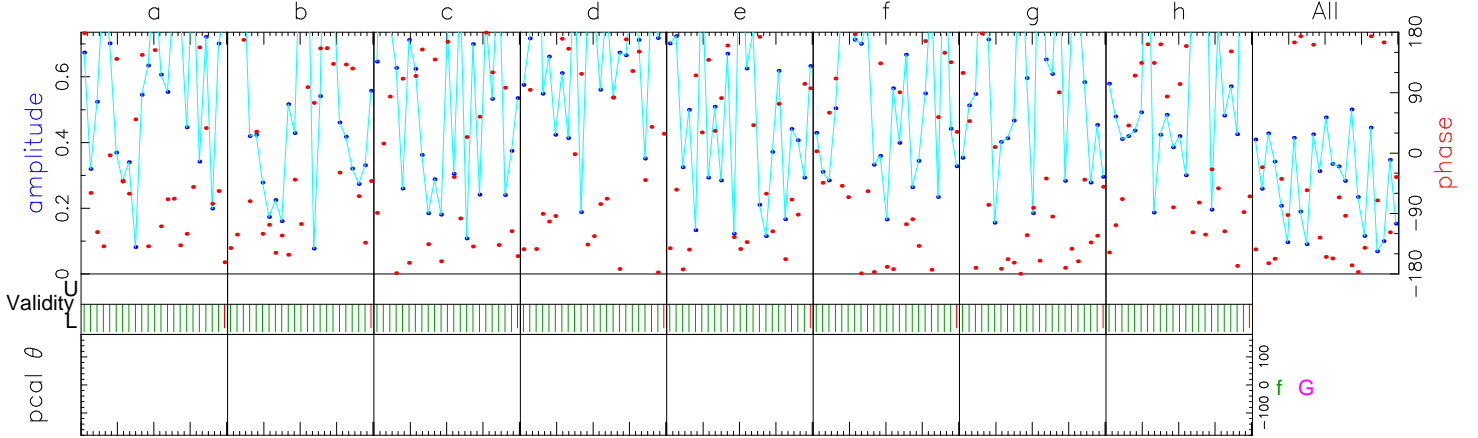
Fringe quality 0

SNR 5.9
 Int time 239.989
 Amp 0.245
 Phase 212.1
 PFD 2.5e-01
 Delays (us)
 SBD -0.079742
 MBD -0.003957
 Fringe rate (Hz)
 0.724606
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. c171b
 Exper # 16383
 Yr:day 2017:090
 Start 153000.00
 Stop 153400.00
 FRT 153200.00
 Corr/FF/build
 2017:208:133600
 2017:213:182020
 2017:170:130423
 RA & Dec (J2000)
 02h24m28.4282s
 +6°59'23.342"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

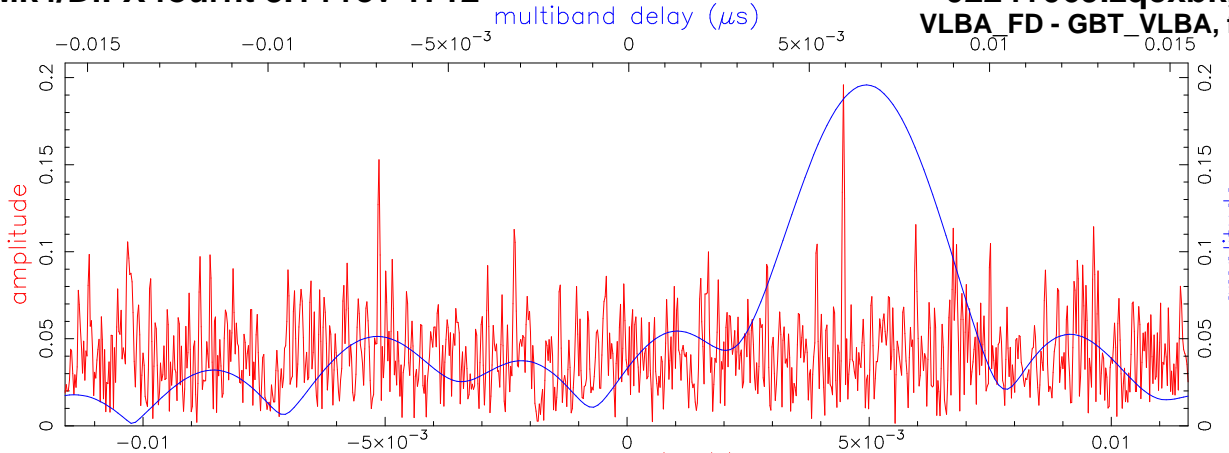


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-112.2	-166.5	-175.0	-152.5	-165.9	-162.4	-150.3	-124.8	Phase	-147.9
0.3	0.3	0.2	0.3	0.1	0.2	0.4	0.3	Ampl.	0.2
179.8	101.9	187.2	181.6	190.3	235.9	118.8	117.3	Sbd box	118.8
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
f 0	0	0	0	0	0	0	0	PC freqs	
G 0	0	0	0	0	0	0	0	PC freqs	
f:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:G 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	
G 1000	1000	1000	1000	1000	1000	1000	1000		
f W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
G W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

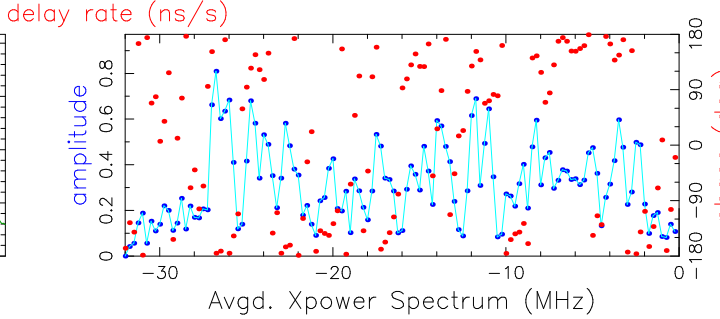
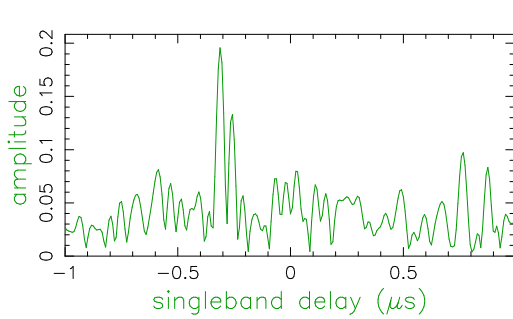
Group delay (usec)(sbd)	-6.26655771832E+03	Apriori delay (usec)	-6.26649126110E+03	Resid mbdelay (usec)	-3.95723E-03	+/-	3.7E-04
Sband delay (usec)	-6.26657100260E+03	Apriori clock (usec)	1.0550821E+01	Resid sbdelay (usec)	-7.97415E-02	+/-	2.9E-03
Phase delay (usec)	-6.26649126587E+03	Apriori clockrate (us/s)	-6.5280756E-07	Resid phdelay (usec)	-4.76966E-06	+/-	6.3E-07
Delay rate (us/s)	3.20809055254E-01	Apriori rate (us/s)	3.20800643301E-01	Resid rate (us/s)	8.41195E-06	+/-	4.5E-09
Total phase (deg)	128.9	Apriori accel (us/s/s)	3.18225635425E-05	Resid phase (deg)	212.1	+/-	19.5

ph/seg (deg)	58.9	Theor.	46.9	Amplitude	0.245 +/- 0.042	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	82.5	Search (1024X32)	0.192	Search	0.000E+00	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	24.0	Interp.	0.000	Inc. seg. avg.	0.269	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	35.0	Inc. frq. avg.	0.235	Inc. frq. avg.	0.235	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
						Data rate(Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00

f: az 89.7 el 13.4 pa -60.1 G: az 108.0 el 31.9 pa -48.5 u,v (fr/asec) -1828.662 -674.045 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/fG.zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/fG.W.327.zqcxbk

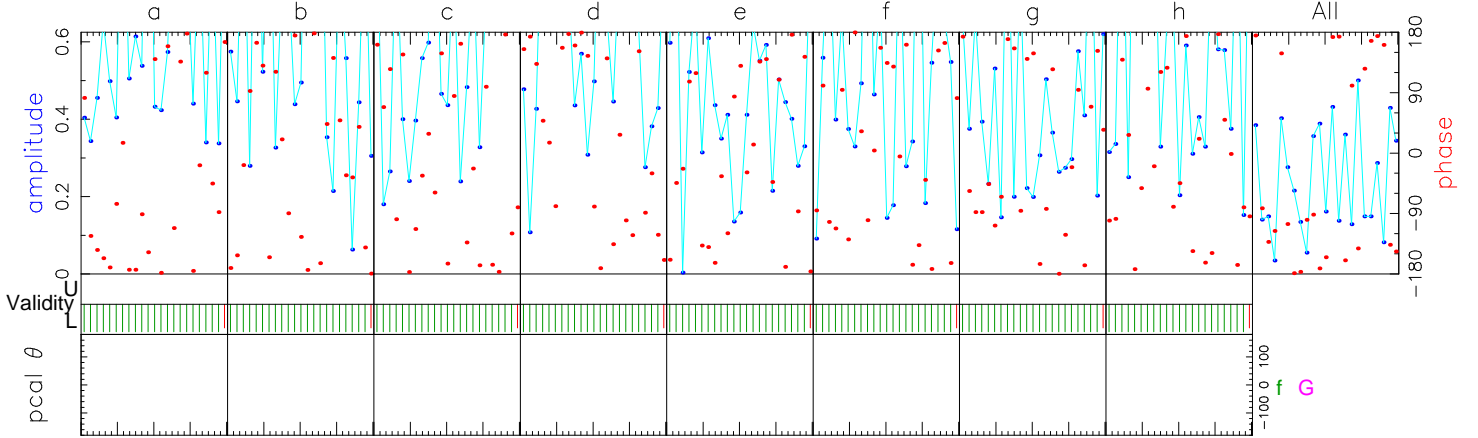


Fringe quality 0
 SNR 5.9
 Int time 239.989
 Amp 0.208
 Phase 1637.4
 PFD 2.4e-01
 Delays (us)
 SBD -0.311740
 MBD 0.006567
 Fringe rate (Hz)
 0.384602
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. c171b
 Exper # 16383
 Yr:day 2017:090
 Start 153000.00
 Stop 153400.00
 FRT 153200.00
 Corr/FF/build
 2017:208:133600
 2017:213:182023
 2017:170:130423
 RA & Dec (J2000)
 02h24m28.4282s
 +6°59'23.342"

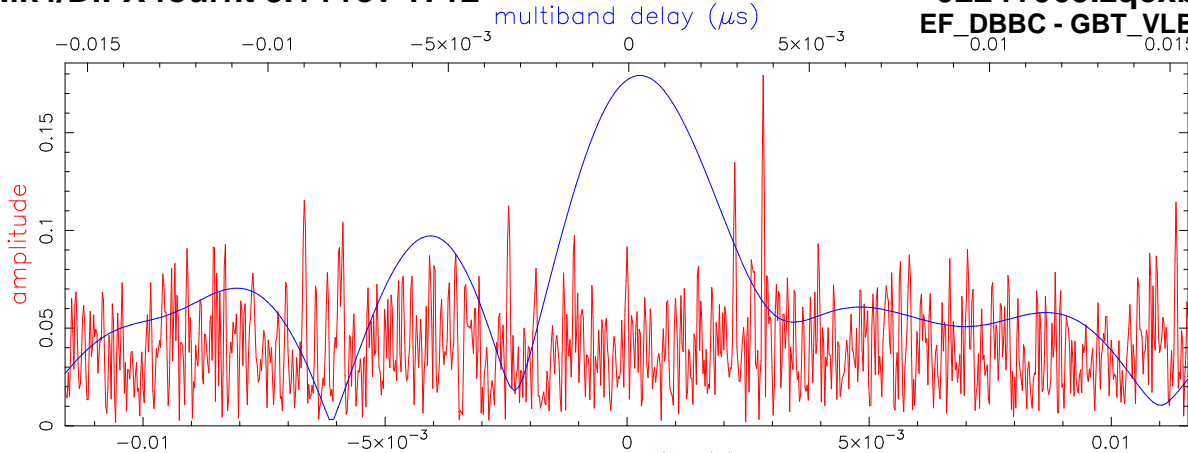
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-154.8	-172.1	-153.1	-170.2	179.4	-161.0	-154.5	-156.0	Phase	-162.6
	0.3	0.3	0.2	0.2	0.1	0.2	0.1	0.2	Ampl.	0.2
	224.9	88.0	128.6	94.4	108.4	74.5	227.0	240.1	Sbd box	89.1
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:G	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	
G	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.26679719389E+03		Apriori delay (usec)		-6.26649126110E+03		Resid mbdelay (usec)		6.56721E-03	+/- 3.7E-04
Sband delay (usec)	-6.26680300110E+03		Apriori clock (usec)		1.0550821E+01		Resid sbdelay (usec)		-3.11740E-01	+/- 2.9E-03
Phase delay (usec)	-6.26649126634E+03		Apriori clockrate (us/s)		-6.5280756E-07		Resid phdelay (usec)		-5.24201E-06	+/- 6.3E-07
Delay rate (us/s)	3.20805108150E-01		Apriori rate (us/s)		3.20800643301E-01		Resid rate (us/s)		4.46485E-06	+/- 4.5E-09
Total phase (deg)	1554.3		Apriori accel (us/s/s)		3.18225635425E-05		Resid phase (deg)		1637.4	+/- 19.5

RMS Theor. Amplitude 0.208 +/- 0.036 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 44.5 46.8 Search (1024X32) 0.191 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 74.4 81.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 11.1 27.6 Inc. seg. avg. 0.197 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 28.9 48.2 Inc. frq. avg. 0.189 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

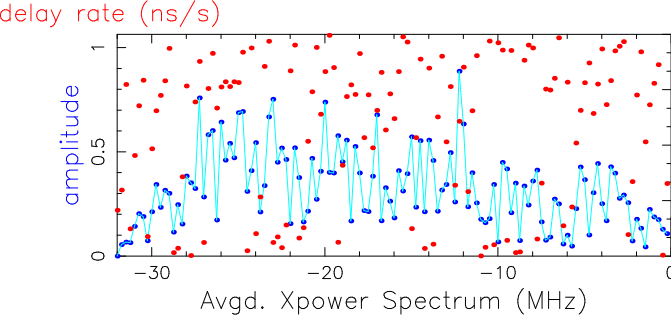
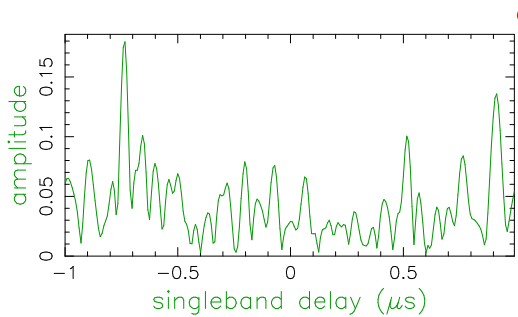
f: az 89.7 el 13.4 pa -60.1 G: az 108.0 el 31.9 pa -48.5 u,v (fr/asec) -1828.662 -674.045 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/fG.zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/fG.W.328.zqcxbk



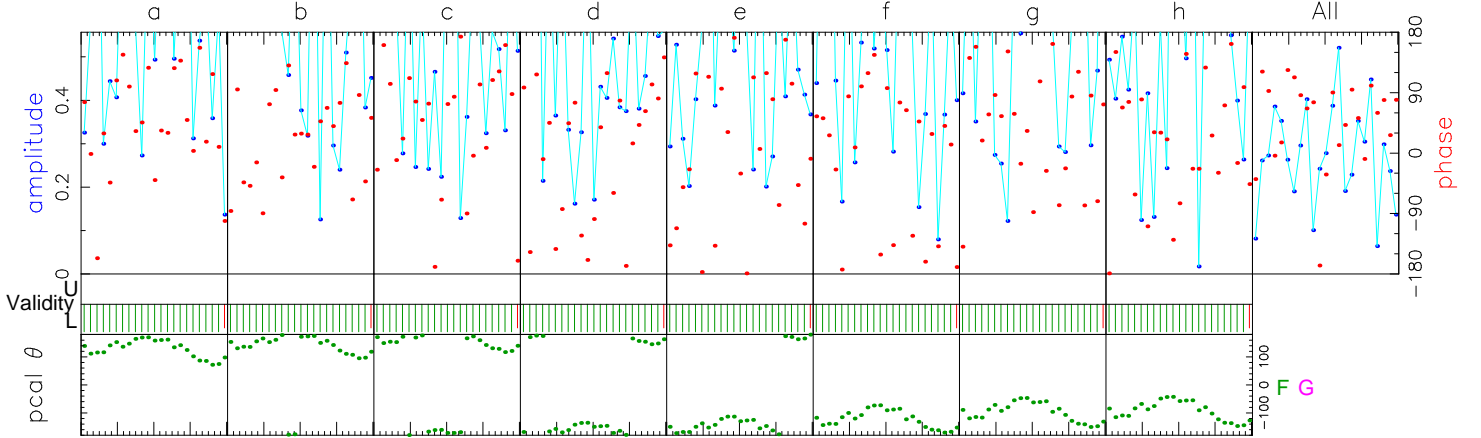
Fringe quality 0

SNR 5.4
Int time 239.963
Amp 0.186
Phase 4380.5
PFD 9.7e-01
Delays (us)
SBD -0.737100
MBD 0.000329
Fringe rate (Hz)
0.242176
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 153000.00
Stop 153400.00
FRT 153200.00
Corr/FF/build
2017:208:133600
2017:213:123350
2017:170:130423
RA & Dec (J2000)
02h24m28.4282s
+6°59'23.342"

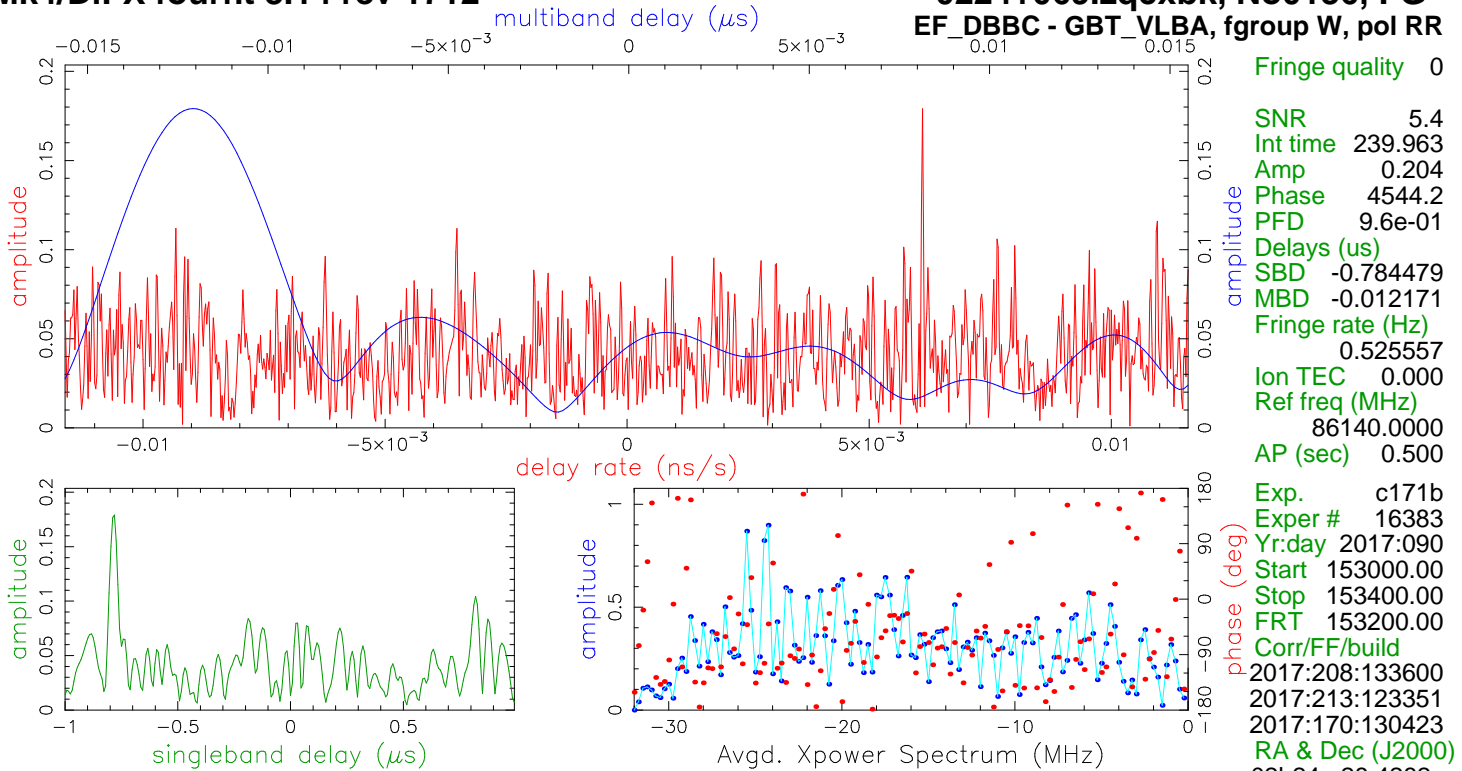


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

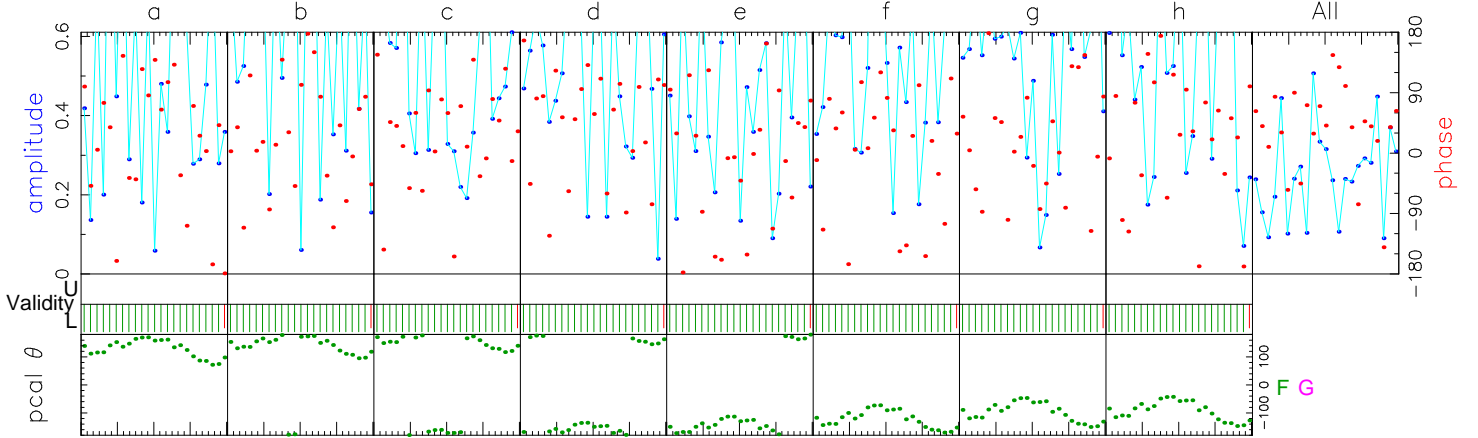


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	65.8	16.7	78.2	98.1	107.9	70.9	57.3	-2.7	Phase	60.5
	0.3	0.3	0.3	0.2	0.0	0.3	0.2	0.1	Ampl.	0.2
	198.6	34.6	248.3	242.8	46.5	36.4	14.5	2.8	Sbd box	34.7
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
F:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
F:G	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	
G	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		2.00486365780E+03		Apriori delay (usec)		2.00561332868E+03		Resid mbdelay (usec)	3.29121E-04	+/- 4.0E-04
Sband delay (usec)		2.00487622818E+03		Apriori clock (usec)		3.9394127E+01		Resid sbdelay (usec)	-7.37100E-01	+/- 3.2E-03
Phase delay (usec)		2.00561333063E+03		Apriori clockrate (us/s)		-2.7030011E-07		Resid phdelay (usec)	1.95144E-06	+/- 6.8E-07
Delay rate (us/s)		-1.50736697069E+00		Apriori rate (us/s)		-1.50736978210E+00		Resid rate (us/s)	2.81142E-06	+/- 4.9E-09
Total phase (deg)			4428.2	Apriori accel (us/s/s)		-8.36883634905E-06		Resid phase (deg)	4380.5	+/- 21.1

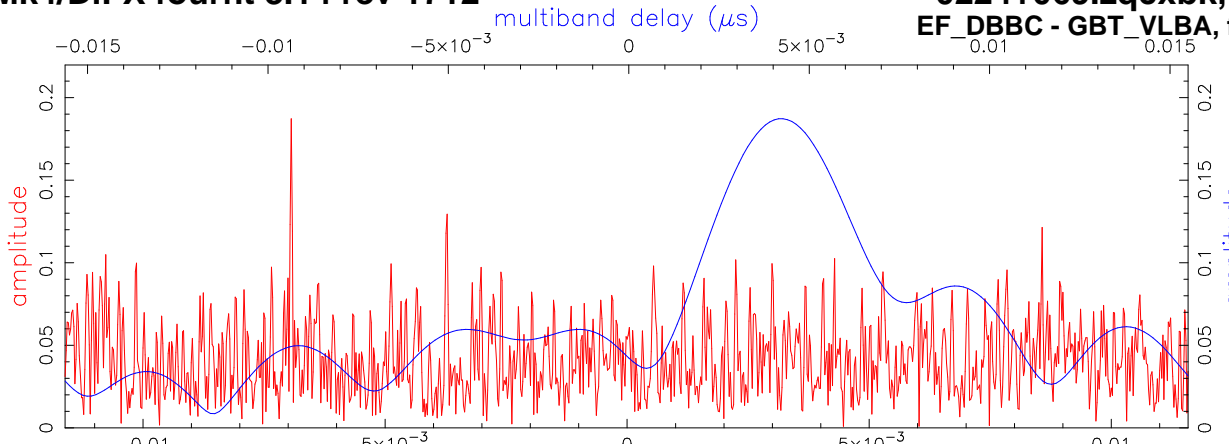
RMS Theor. Amplitude 0.186 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 54.2 50.6 Search (1024X32) 0.176 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 81.0 88.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 40.9 29.9 Inc. seg. avg. 0.202 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 49.5 52.1 Inc. frq. avg. 0.185 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00



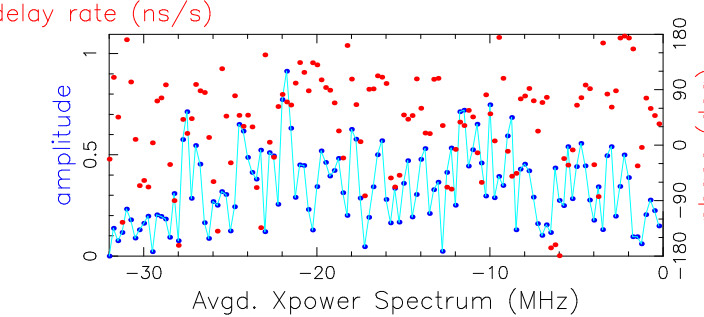
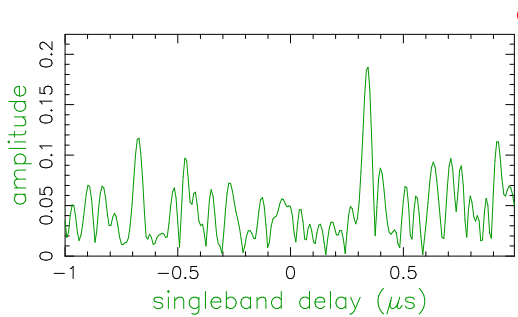
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	86412.00	86444.00	86476.00	86508.00	86540.00	86572.00	86604.00	86636.00	86668.00	86700.00	86732.00	86764.00	86796.00	86828.00	86860.00	86892.00	86924.00	86956.00	86988.00	87020.00	87052.00	87084.00	87116.00	87148.00	87180.00	87212.00	87244.00	87276.00	87308.00	87340.00	87372.00	87404.00	87436.00	87468.00	87500.00	87532.00	87564.00	87596.00	87628.00	87660.00	87692.00	87724.00	87756.00	87788.00	87820.00	87852.00	87884.00	87916.00	87948.00	87980.00	87992.00	88004.00	88016.00	88028.00	88040.00	88052.00	88064.00	88076.00	88088.00	88100.00	88112.00	88124.00	88136.00	88148.00	88160.00	88172.00	88184.00	88196.00	88208.00	88220.00	88232.00	88244.00	88256.00	88268.00	88280.00	88292.00	88304.00	88316.00	88328.00	88340.00	88352.00	88364.00	88376.00	88388.00	88400.00	88412.00	88424.00	88436.00	88448.00	88460.00	88472.00	88484.00	88496.00	88508.00	88520.00	88532.00	88544.00	88556.00	88568.00	88580.00	88592.00	88604.00	88616.00	88628.00	88640.00	88652.00	88664.00	88676.00	88688.00	88700.00	88712.00	88724.00	88736.00	88748.00	88760.00	88772.00	88784.00	88796.00	88808.00	88820.00	88832.00	88844.00	88856.00	88868.00	88880.00	88892.00	88904.00	88916.00	88928.00	88940.00	88952.00	88964.00	88976.00	88988.00	89000.00	89012.00	89024.00	89036.00	89048.00	89060.00	89072.00	89084.00	89096.00	89108.00	89120.00	89132.00	89144.00	89156.00	89168.00	89180.00	89192.00	89204.00	89216.00	89228.00	89240.00	89252.00	89264.00	89276.00	89288.00	89300.00	89312.00	89324.00	89336.00	89348.00	89360.00	89372.00	89384.00	89396.00	89408.00	89420.00	89432.00	89444.00	89456.00	89468.00	89480.00	89492.00	89504.00	89516.00	89528.00	89540.00	89552.00	89564.00	89576.00	89588.00	89600.00	89612.00	89624.00	89636.00	89648.00	89660.00	89672.00	89684.00	89696.00	89708.00	89720.00	89732.00	89744.00	89756.00	89768.00	89780.00	89792.00	89804.00	89816.00	89828.00	89840.00	89852.00	89864.00	89876.00	89888.00	89900.00	89912.00	89924.00	89936.00	89948.00	89960.00	89972.00	89984.00	89996.00	90008.00	90020.00	90032.00	90044.00	90056.00	90068.00	90080.00	90092.00	90104.00	90116.00	90128.00	90140.00	90152.00	90164.00	90176.00	90188.00	90200.00	90212.00	90224.00	90236.00	90248.00	90260.00	90272.00	90284.00	90296.00	90308.00	90320.00	90332.00	90344.00	90356.00	90368.00	90380.00	90392.00	90404.00	90416.00	90428.00	90440.00	90452.00	90464.00	90476.00	90488.00	90500.00	90512.00	90524.00	90536.00	90548.00	90560.00	90572.00	90584.00	90596.00	90608.00	90620.00	90632.00	90644.00	90656.00	90668.00	90680.00	90692.00	90704.00	90716.00	90728.00	90740.00	90752.00	90764.00	90776.00	90788.00	90800.00	90812.00	90824.00	90836.00	90848.00	90860.00	90872.00	90884.00	90896.00	90908.00	90920.00	90932.00	90944.00	90956.00	90968.00	90980.00	90992.00	91004.00	91016.00	91028.00	91040.00	91052.00	91064.00	91076.00	91088.00	91100.00	91112.00	91124.00	91136.00	91148.00	91160.00	91172.00	91184.00	91196.00	91208.00	91220.00	91232.00	91244.00	91256.00	91268.00	91280.00	91292.00	91304.00	91316.00	91328.00	91340.00	91352.00	91364.00	91376.00	91388.00	91400.00	91412.00	91424.00	91436.00	91448.00	91460.00	91472.00	91484.00	91496.00	91508.00	91520.00	91532.00	91544.00	91556.00	91568.00	91580.00	91592.00	91604.00	91616.00	91628.00	91640.00	91652.00	91664.00	91676.00	91688.00	91700.00	91712.00	91724.00	91736.00	91748.00	91760.00	91772.00	91784.00	91796.00	91808.00	91820.00	91832.00	91844.00	91856.00	91868.00	91880.00	91892.00	91904.00	91916.00	91928.00	91940.00	91952.00	91964.00	91976.00	91988.00	91996.00	92008.00	92020.00	92032.00	92044.00	92056.00	92068.00	92080.00	92092.00	92104.00	92116.00	92128.00	92140.00	92152.00	92164.00	92176.00	92188.00	92200.00	92212.00	92224.00	92236.00	92248.00	92260.00	92272.00	92284.00	92296.00	92308.00	92320.00	92332.00	92344.00	92356.00	92368.00	92380.00	92392.00	92404.00	92416.00	92428.00	92440.00	92452.00	92464.00	92476.00	92488.00	92500.00	92512.00	92524.00	92536.00	92548.00	92560.00	92572.00	92584.00	92596.00	92608.00	92620.00	92632.00	92644.00	92656.00	92668.00	92680.00	92692.00	92704.00	92716.00	92728.00	92740.00	92752.00	92764.00	92776.00	92788.00	92800.00	92812.00	92824.00	92836.00	92848.00	92860.00	92872.00	92884.00	92896.00	92908.00	92920.00	92932.00	92944.00	92956.00	92968.00	92980.00	92992.00	93004.00	93016.00	93028.00	93040.00	93052.00	93064.00	93076.00	93088.00	93100.00	93112.00	93124.00	93136.00	93148.00	93160.00	93172.00	93184.00	93196.00	93208.00	93220.00	93232.00	93244.00	93256.00	93268.00	93280.00	93292.00	93304.00	93316.00	93328.00	93340.00	93352.00	93364.00	93376.00	93388.00	93400.00	93412.00	93424.00	93436.00	93448.00	93460.00	93472.00	93484.00	93496.00	93508.00	93520.00	93532.00	93544.00	93556.00	93568.00	93580.00	93592.00	93604.00	93616.00	93628.00	93640.00	93652.00	93664.00	93676.00	93688.00	93700.00	93712.00	93724.00	93736.00	93748.00	93760.00	93772.00	93784.00	93796.00	93808.00	93820.00	93832.00	93844.00	93856.00	93868.00	93880.00	93892.00	93904.00	93916.00	93928.00	93940.00	93952.00	93964.00	93976.00	93988.00	93996.00	94008.00	94020.00	94032.00	94044.00	94056.00	94068.00	94080.00	94092.00	94104.00	94116.00	94128.00	94140.00	94152.00	94164.00	94176.00	94188.00	94200.00	94212.00	94224.00	94236.00	94248.00	94260.00	94272.00	94284.00	94296.00	94308.00	94320.00	94332.00	94344.00	94356.00	94368.00	94380.00	94392.00	94404.00	94416.00	94428.00	94440.00	94452.00	94464.00	94476.00	94488.00	94500.00	94512.00	94524.00	94536.00	94548.00	94560.00	94572.00	94584.00	94596.00	94608.00	94620.00	94632.00	94644.00	94656.00	94668.00	94680.00	94692.00	94704.00	94716.00	94728.00	94740.00	94752.00	94764.00	94776.00	94788.00	94800.00	94812.00	94824.00	94836.00	94848.00	94860.00	94872.00	94884.00	94896.00	94908.00	94920.00	94932.00	94944.00	94956.00	94968.00	94980.00	94992.00	95004.00	95016.00	95028.00	95040.00	95052.00	95064.00	95076.00	95088.00	95100.00	95112.00	95124.00	95136.00	95148.00	95160.00	95172.00	95184.00	95196.00	95208.00	95220.00	95232.00	95244.00	95256.00	95268.00	95280.00	95292.00	95304.00	95316.00	95328.00	95340.00	95352.00	95364.00	95376.00	95388.00	95400.00	95412.00	95424.00	95436.00	95448.00	95460.00	95472.00	95484.00	95496.00	95508.00	95520.00	95532.00	95544.00	95556.00	95568.00	95580.00	95592.00	95604.00	95616.00	95628.00	95640.00	95652.00	95664.00	95676.00	95688.00	95700.00	95712.00	95724.00	95736.00	95748.00	95760.00	95772.00	95784.00	95796.00	95808.00	95820.00	95832.00	95844.00	95856.00	95868.00	95880.00	95892.00	95904.00	95916.00	95928.00	95940.00	95952.00	95964.00	95976.00	95988.00	95996.00	96008.00	96020.00	96032.00	96044.00	96056.00	96068.00	96080.00	96092.00	96104.00	96116.00	96128.00	96140.00	96152.00	96164.00	96176.00	96188.00	96200.00	96212.00	96224.00	96236.00	96248.00	96260.00	96272.00	96284.00	96296.00	96308.00	96320.00	96332.00	96344.00	96356.00	96368.00	96380.00	96392.00	96404.00	96416.00	96428.00	96440.00	96452.00	96464.00	96476.00	96488.00	96500.00	96512.00	96524.00	96536.00	96548.00	96560.00	96572.00	96584.00	96596.00	96608.00	96620.00	96632.00	96644.00	96656.00	96668.00	96680.00	96692.00	96704.00	96716.00	96728.00	96740.00	96752.00	96764.00	96776.00	96788.00	96800.00	96812.00	96824.00	96836.00	96848.00	96860.00	96872.00	96884.00	96896.00	96908.00	96920.00	96932.00	96944.00	96956.00	96968.00	96980.00	96992.00	97004.00	97016.00
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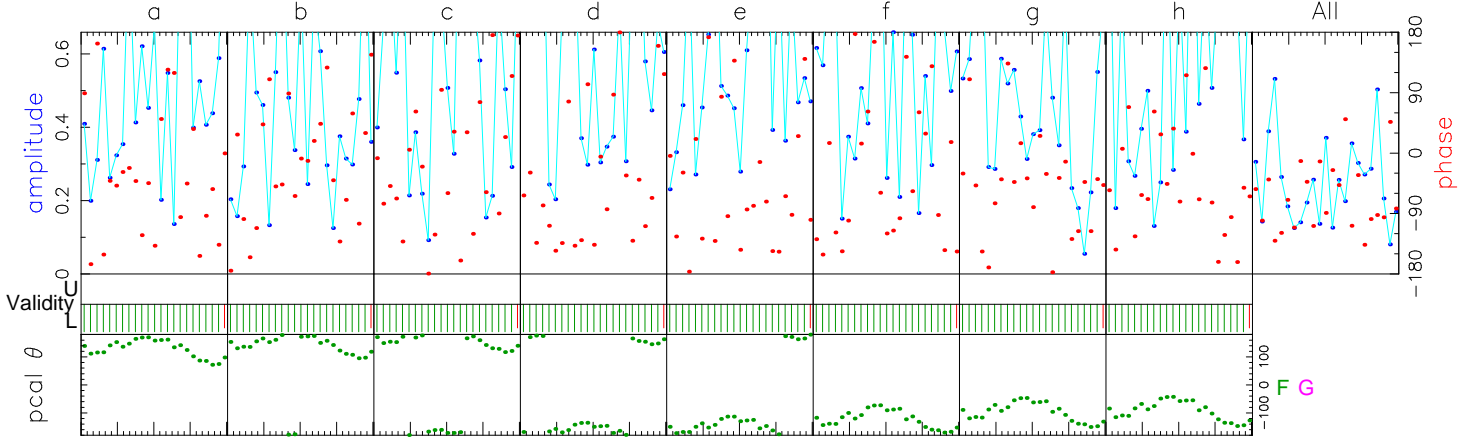


Fringe quality 0
SNR 5.7
Int time 239.963
Amp 0.220
Phase -2060.6
PFD 6.1e-01
Delays (us)
SBD 0.340954
MBD 0.004255
Fringe rate (Hz)
-0.597373
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

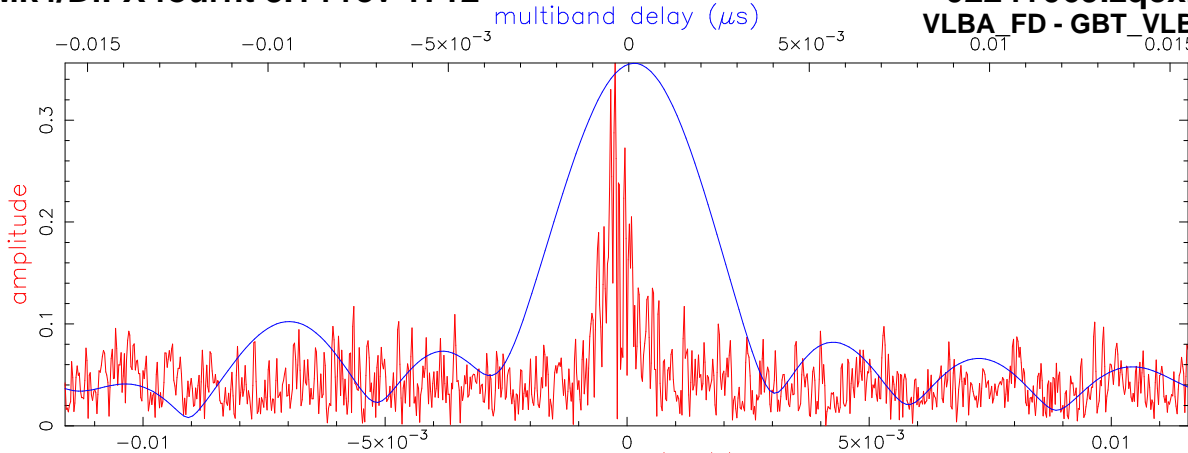


Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 153000.00
Stop 153400.00
FRT 153200.00
Corr/FF/build
2017:208:133600
2017:213:123352
2017:170:130423
RA & Dec (J2000)
02h24m28.4282s
+6°59'23.342"

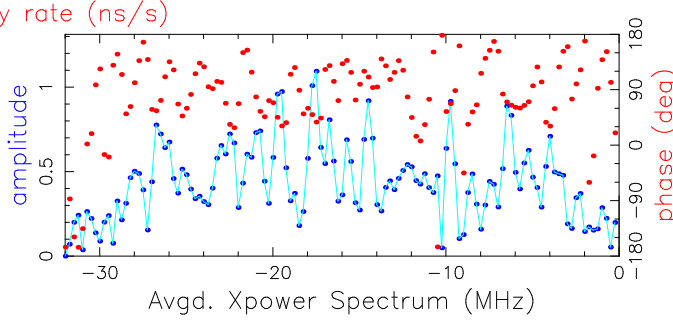
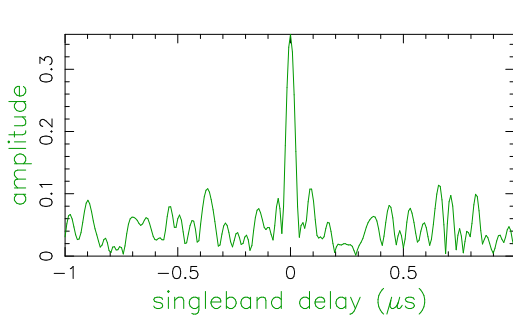
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



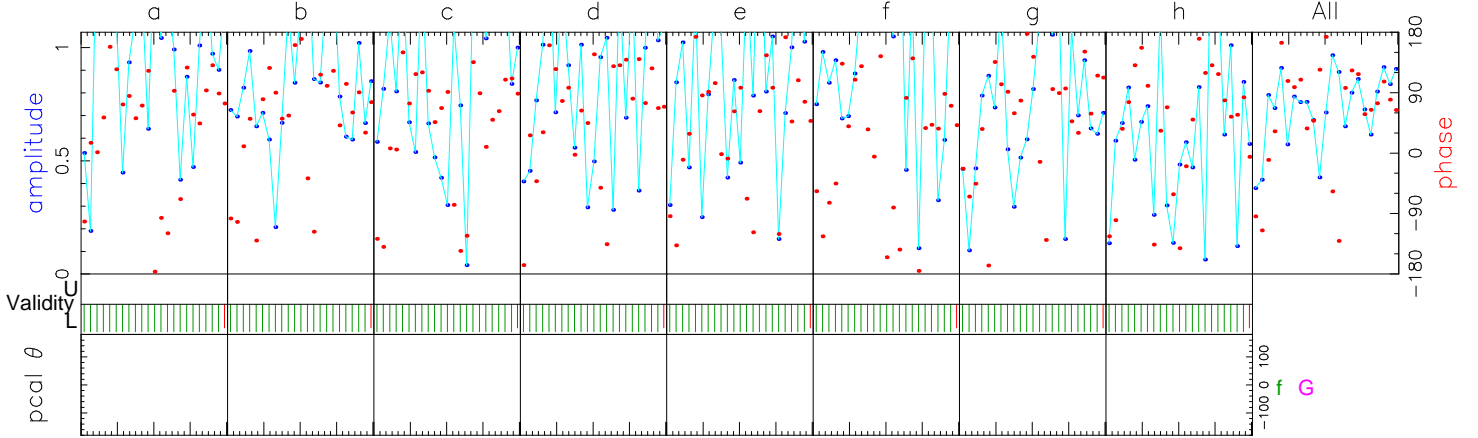
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
G	0	0	0	0	0	0	0	0		
F:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
F:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
F	1000	1000	1000	1000	1000	1000	1000	1000		
G	1000	1000	1000	1000	1000	1000	1000	1000		
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)		2.00596133389E+03		Apriori delay (usec)		2.00561332868E+03		Resid mbdelay (usec)	4.25521E-03	+/- 3.8E-04
Sband delay (usec)		2.00595428268E+03		Apriori clock (usec)		3.9394127E+01		Resid sbdelay (usec)	3.40954E-01	+/- 3.0E-03
Phase delay (usec)		2.00561332608E+03		Apriori clockrate (us/s)		-2.7030011E-07		Resid phdelay (usec)	-2.59848E-06	+/- 6.5E-07
Delay rate (us/s)		-1.50737671701E+00		Apriori rate (us/s)		-1.50736978210E+00		Resid rate (us/s)	-6.93491E-06	+/- 4.7E-09
Total phase (deg)			-2012.9	Apriori accel (us/s/s)		-8.36883634905E-06		Resid phase (deg)	-2060.6	+/- 20.3
RMS	52.8	48.6		0.220 +/- 0.039						
ph/seg (deg)	70.3	84.8		Search (1024X32)	0.183					
amp/seg (%)	35.2	28.6		Interp.	0.000					
ph/frq (deg)	30.4	50.0		Inc. seg. avg.	0.216					
amp/frq (%)				Inc. frq. avg.	0.220					
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) -0.016 0.016										
Sample rate(MSamp/s): 64 dr window (ns/s) -0.012 0.012										
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00										
simultaneous interpolator										



Fringe quality 9
SNR 10.7
Int time 239.989
Amp 0.356
Phase 89.8
PFD 1.7e-18
Delays (us)
SBD -0.000659
MBD 0.000156
Fringe rate (Hz)
-0.021636
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500
Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 153000.00
Stop 153400.00
FRT 153200.00
Corr/FF/build
2017:208:133600
2017:213:123415
2017:170:130423
RA & Dec (J2000)
02h24m28.4282s
+6°59'23.342"



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

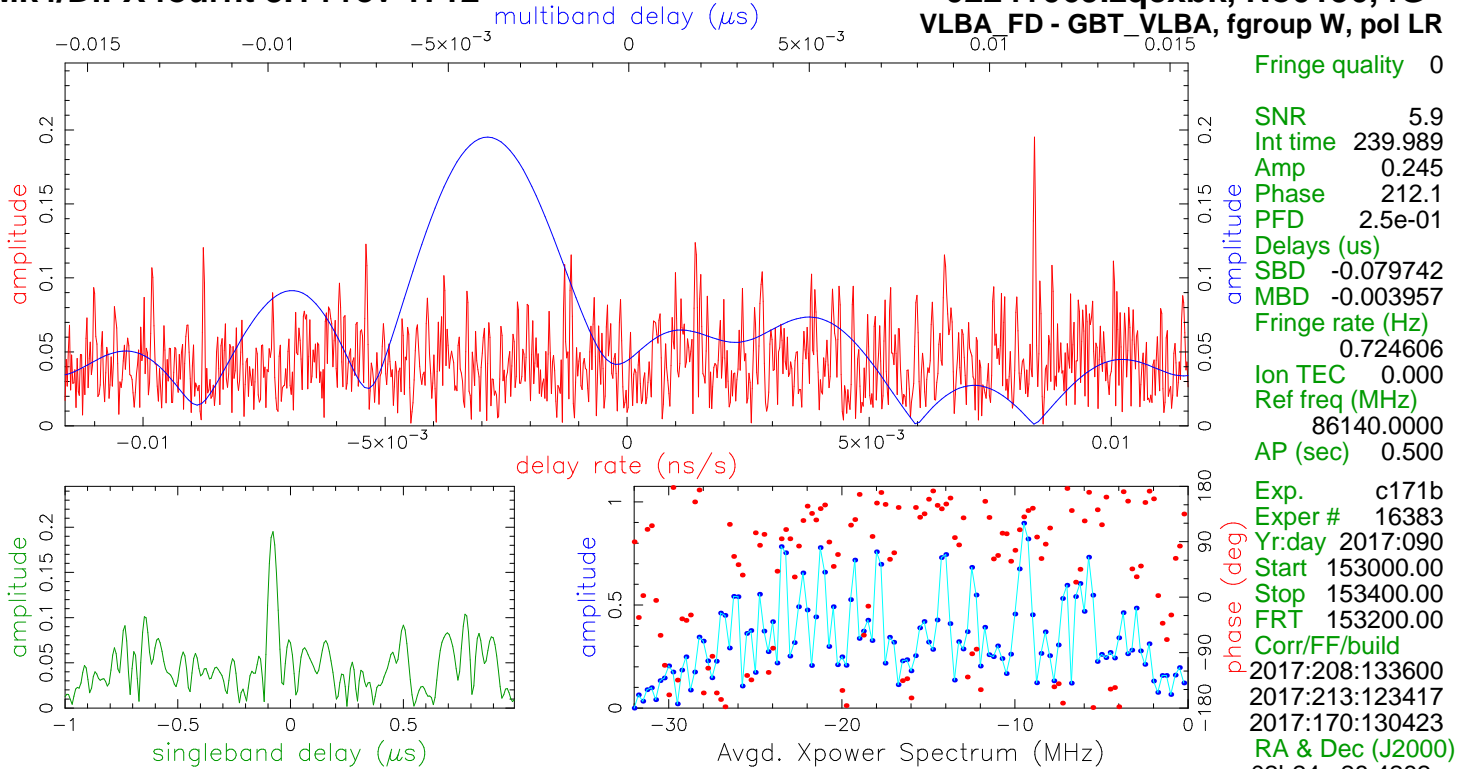


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	92.9	86.6	90.8	95.6	77.1	83.2	94.6	91.8	Phase	89.8
	0.4	0.3	0.4	0.5	0.4	0.2	0.3	0.3	Ampl.	0.3
	129.0	130.3	128.4	129.5	128.2	73.2	128.3	128.0	Sbd box	128.9
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:G	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	
G	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

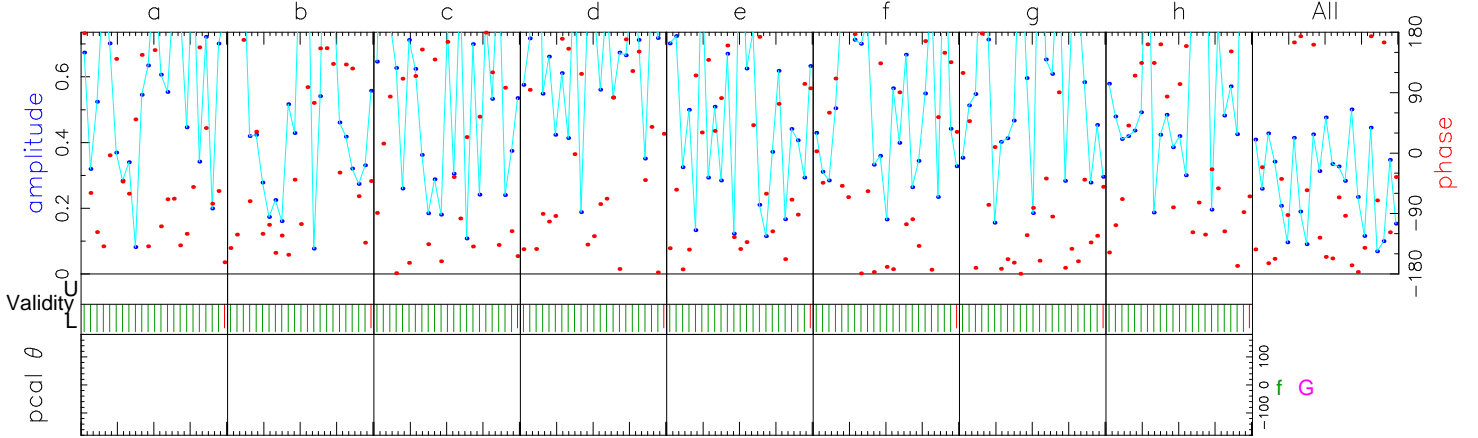
Group delay (usec)(sbd)	-6.26649110559E+03	Apriori delay (usec)	-6.26649126110E+03	Resid mbdelay (usec)	1.55508E-04	+/-	2.0E-04
Sband delay (usec)	-6.26649191960E+03	Apriori clock (usec)	1.0550821E+01	Resid sbdelay (usec)	-6.58500E-04	+/-	1.6E-03
Phase delay (usec)	-6.26649125820E+03	Apriori clockrate (us/s)	-6.5280756E-07	Resid phdelay (usec)	2.89586E-06	+/-	3.5E-07
Delay rate (us/s)	3.20800392125E-01	Apriori rate (us/s)	3.20800643301E-01	Resid rate (us/s)	-2.51175E-07	+/-	2.5E-09
Total phase (deg)	6.6	Apriori accel (us/s/s)	3.18225635425E-05	Resid phase (deg)	89.8	+/-	10.7

	RMS	Theor.	Amplitude	0.356 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	76.3	25.8	Search (1024X32)	0.351	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
amp/seg (%)	115.2	45.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
ph/frq (deg)	6.9	15.2	Inc. seg. avg.	0.667	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
amp/frq (%)	24.3	26.5	Inc. frq. avg.	0.346	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			

f: az 89.7 el 13.4 pa -60.1 G: az 108.0 el 31.9 pa -48.5 u,v (fr/asec) -1828.662 -674.045 simultaneous interpolator
Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/fG.No0136.fG.W.61.zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/fG.W.61.zqcxbk



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-112.2	-166.5	-175.0	-152.5	-165.9	-162.4	-150.3	-124.8	Phase	-147.9
0.3	0.3	0.2	0.3	0.1	0.2	0.4	0.3	Ampl.	0.2
179.8	101.9	187.2	181.6	190.3	235.9	118.8	117.3	Sbd box	118.8
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
f 0	0	0	0	0	0	0	0	PC freqs	
G 0	0	0	0	0	0	0	0	PC freqs	
f:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:G 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	
G 1000	1000	1000	1000	1000	1000	1000	1000		
f W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
G W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-6.26655771832E+03		Apriori delay (usec)	-6.26649126110E+03	Resid mbdelay (usec)	-3.95723E-03	+/-	3.7E-04	
Sband delay (usec)	-6.26657100260E+03		Apriori clock (usec)	1.0550821E+01	Resid sbdelay (usec)	-7.97415E-02	+/-	2.9E-03	
Phase delay (usec)	-6.26649126587E+03		Apriori clockrate (us/s)	-6.5280756E-07	Resid phdelay (usec)	-4.76966E-06	+/-	6.3E-07	
Delay rate (us/s)	3.20809055254E-01		Apriori rate (us/s)	3.20800643301E-01	Resid rate (us/s)	8.41195E-06	+/-	4.5E-09	
Total phase (deg)		128.9	Apriori accel (us/s/s)	3.18225635425E-05	Resid phase (deg)	212.1	+/-	19.5	

ph/seg (deg) 58.9 46.9 Theor. Amplitude 0.245 +/- 0.042 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

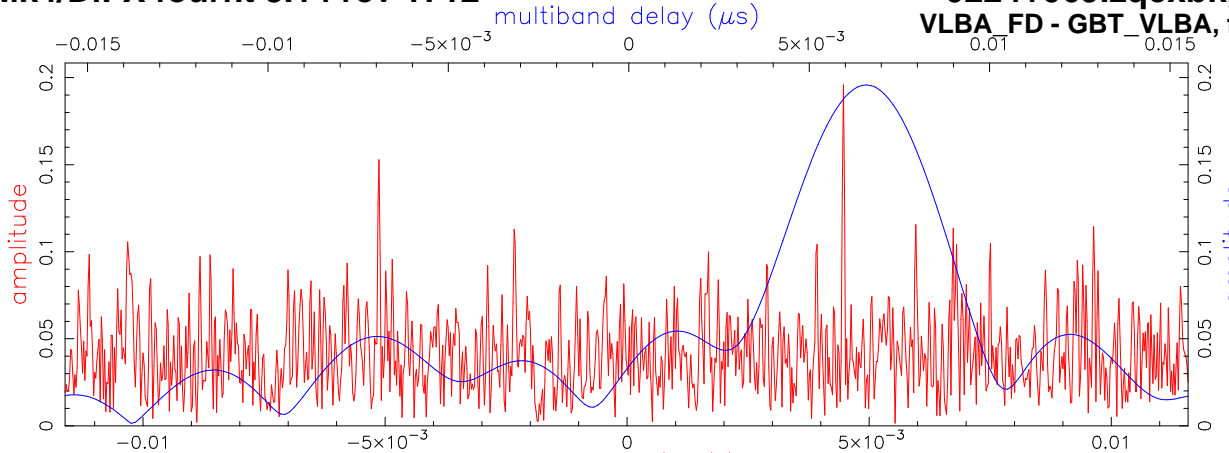
amp/seg (%) 82.5 81.8 Search (1024X32) 0.192 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 24.0 27.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

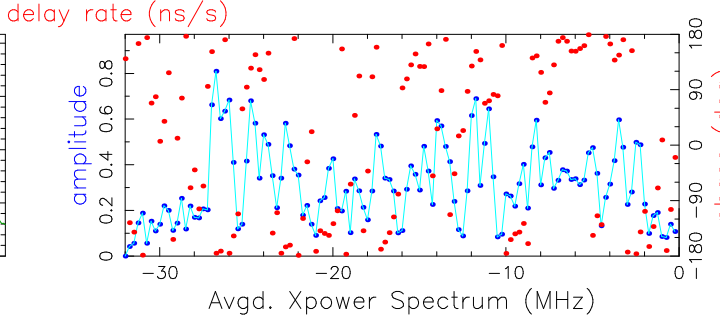
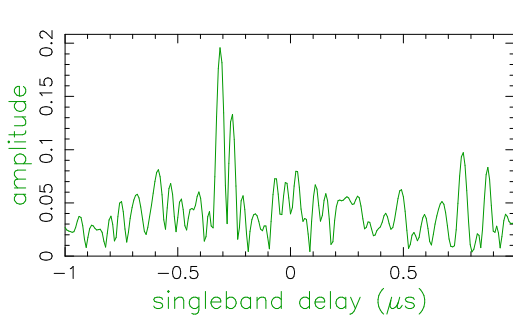
amp/frq (%) 35.0 48.3 Inc. seg. avg. 0.269 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

f: az 89.7 el 13.4 pa -60.1 G: az 108.0 el 31.9 pa -48.5 u,v (fr/asec) -1828.662 -674.045 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/fG.0224+069.zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/fG.W.63.zqcxbk

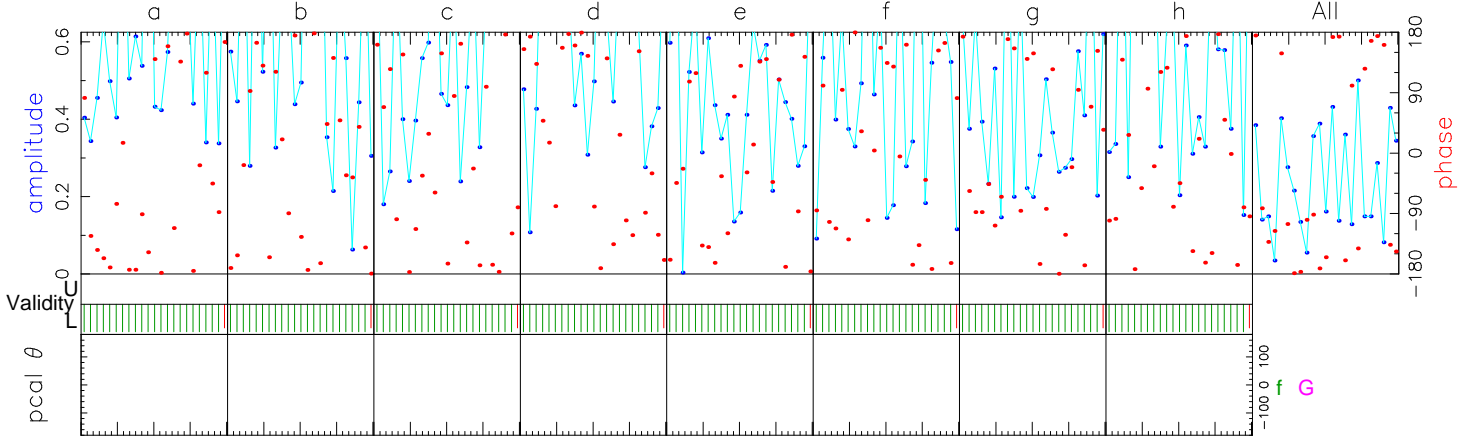


Fringe quality 0
 SNR 5.9
 Int time 239.989
 Amp 0.208
 Phase 1637.4
 PFD 2.4e-01
 Delays (us)
 SBD -0.311740
 MBD 0.006567
 Fringe rate (Hz)
 0.384602
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. c171b
 Exper # 16383
 Yr:day 2017:090
 Start 153000.00
 Stop 153400.00
 FRT 153200.00
 Corr/FF/build
 2017:208:133600
 2017:213:123418
 2017:170:130423
 RA & Dec (J2000)
 02h24m28.4282s
 +6°59'23.342"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



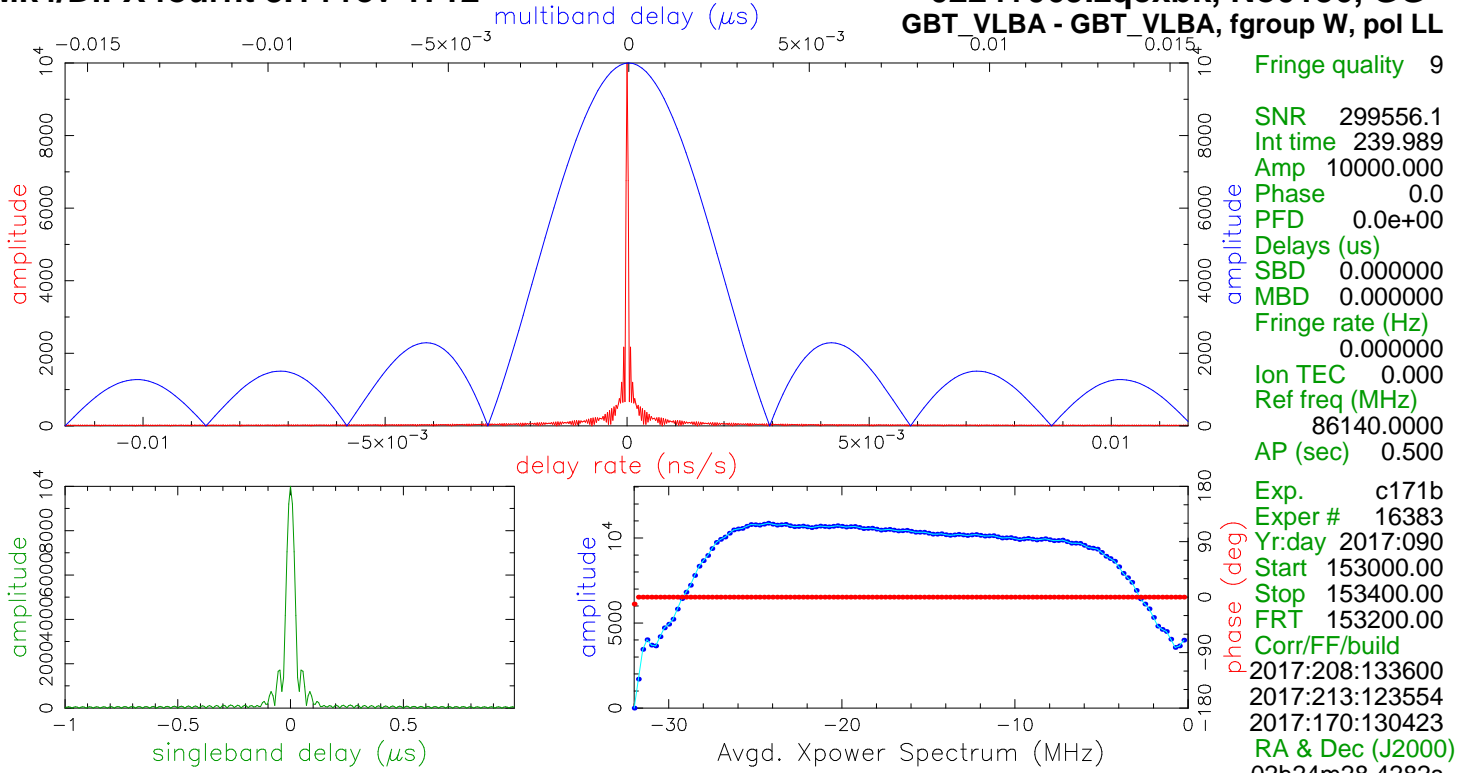
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All					
-154.8	-172.1	-153.1	-170.2	179.4	-161.0	-154.5	-156.0	Phase	-162.6					
0.3	0.3	0.2	0.2	0.1	0.2	0.1	0.2	Ampl.	0.2					
224.9	88.0	128.6	94.4	108.4	74.5	227.0	240.1	Sbd box	89.1					
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used						
f 0	0	0	0	0	0	0	0	PC freqs						
G 0	0	0	0	0	0	0	0	PC freqs						
f:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase						
f:G 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						
G 1000	1000	1000	1000	1000	1000	1000	1000							
f W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids						
G W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks						
Group delay (usec)(sbd)									-6.26679719389E+03	Apriori delay (usec)	-6.26649126110E+03	Resid mbdelay (usec)	6.56721E-03	+/- 3.7E-04
Sband delay (usec)									-6.26680300110E+03	Apriori clock (usec)	1.0550821E+01	Resid sbdelay (usec)	-3.11740E-01	+/- 2.9E-03
Phase delay (usec)									-6.26649126634E+03	Apriori clockrate (us/s)	-6.5280756E-07	Resid phdelay (usec)	-5.24201E-06	+/- 6.3E-07
Delay rate (us/s)									3.20805108150E-01	Apriori rate (us/s)	3.20800643301E-01	Resid rate (us/s)	4.46485E-06	+/- 4.5E-09
Total phase (deg)									1554.3	Apriori accel (us/s/s)	3.18225635425E-05	Resid phase (deg)	1637.4	+/- 19.5

ph/seg (deg) 44.5 46.8
 amp/seg (%) 74.4 81.7
 ph/frq (deg) 11.1 27.6
 amp/frq (%) 28.9 48.2

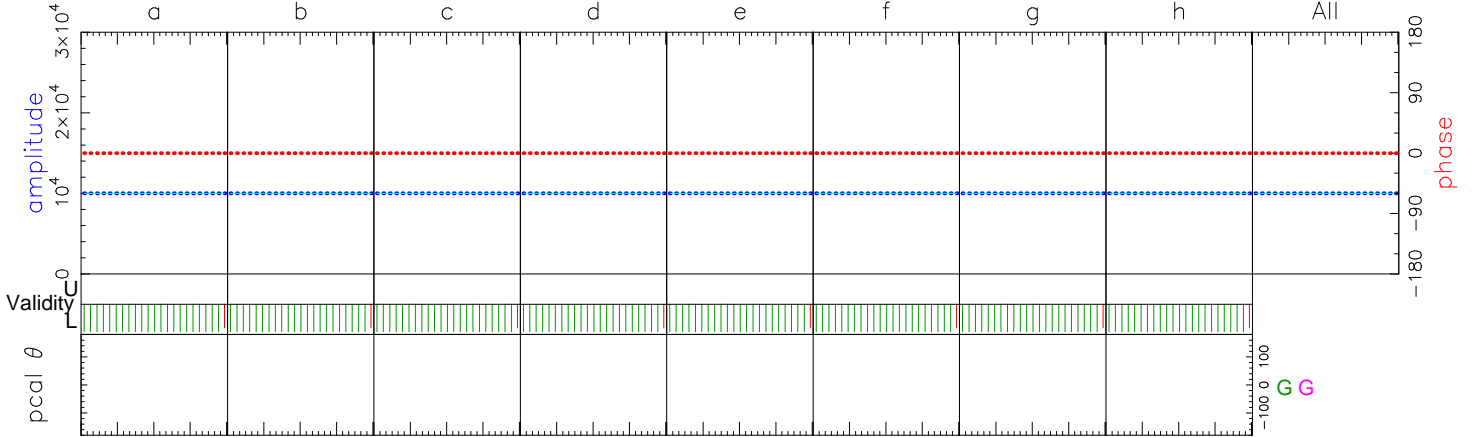
RMS Theor. Amplitude 0.208 +/- 0.036
 Search (1024X32) 0.191
 Interp. 0.000
 Inc. seg. avg. 0.197
 Inc. frq. avg. 0.189

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s)
 Bits/sample: 2x2 SampCntNorm: enabled
 Sample rate(MSamp/s): 64
 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us) -1.000 1.000
 mb window (us) -0.016 0.016
 dr window (ns/s) -0.012 0.012
 ion window (TEC) 0.00 0.00

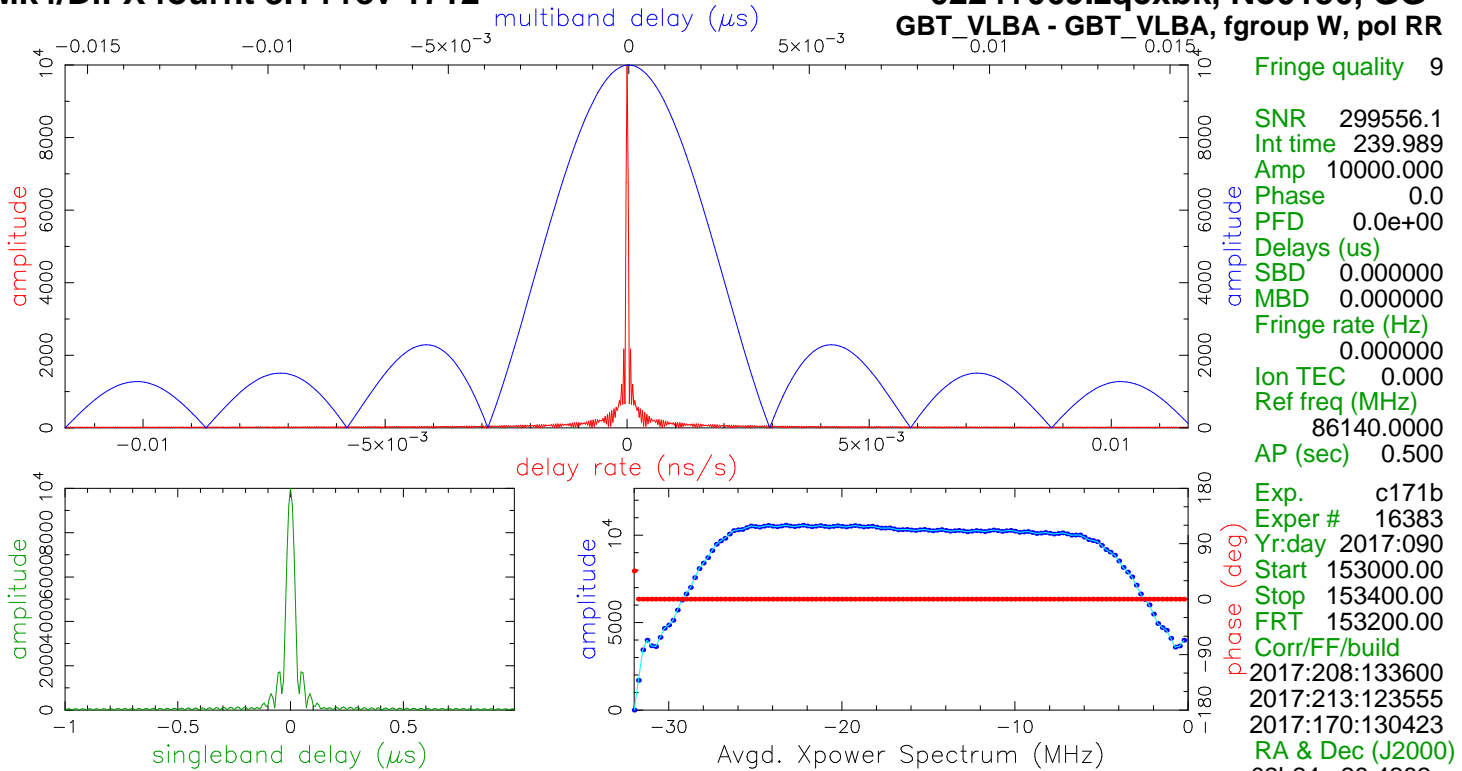


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



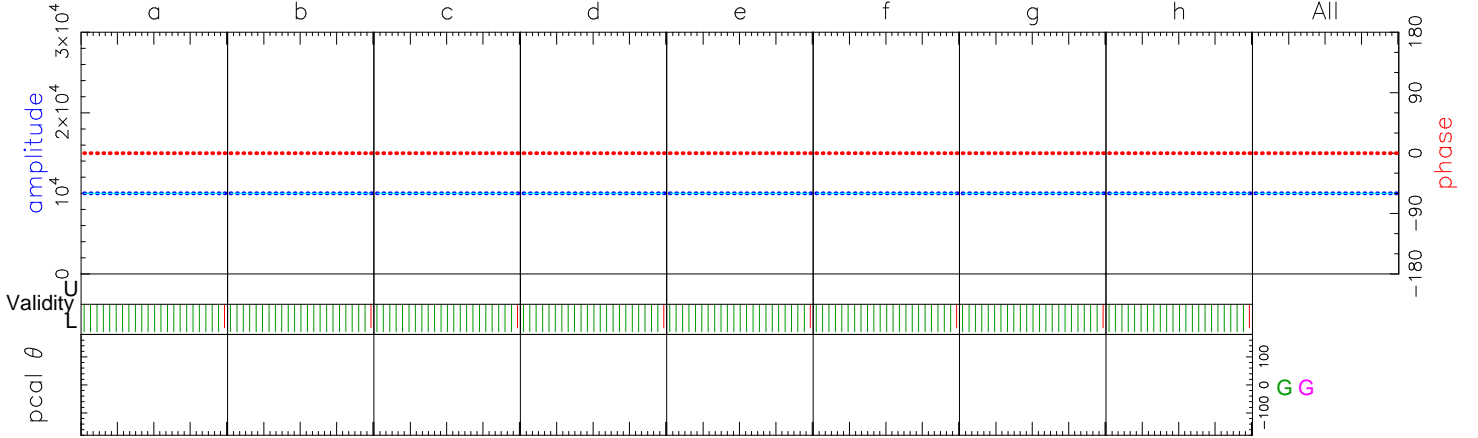
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Phase	0.0
10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	Sbd box	129.0
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G 0	0	0	0	0	0	0	0	PC freqs	
G 0	0	0	0	0	0	0	0	PC freqs	
G:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G 1000	1000	1000	1000	1000	1000	1000	1000		
G W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
G W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	7.2E-09		
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	5.8E-08		
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.2E-11		
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	8.9E-14		
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0		

ph/seg (deg) 0.0 0.0 Theor. Amplitude 10000.000 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 G: az 108.0 el 31.9 pa -48.5 G: az 108.0 el 31.9 pa -48.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GG..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GG.W.157.zqcxbk



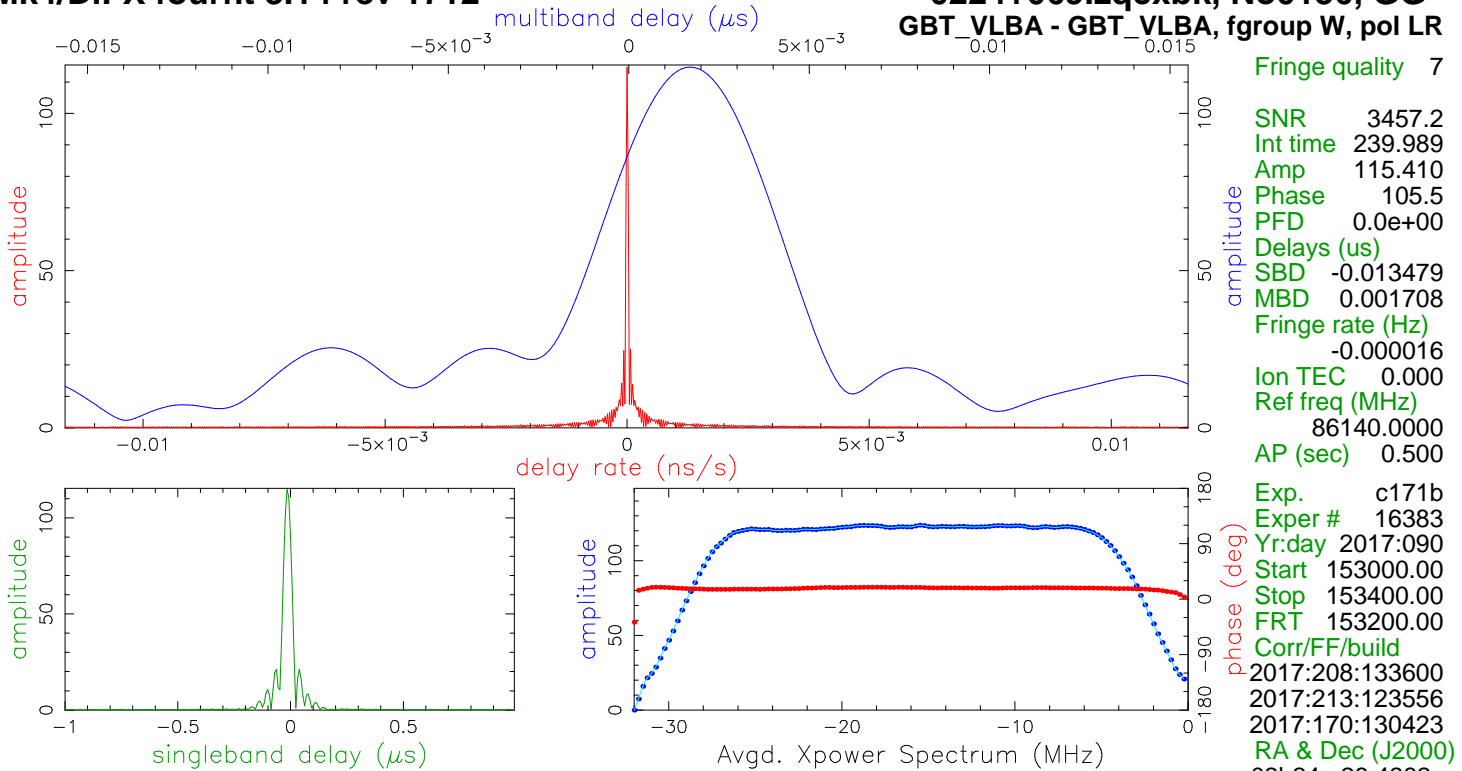
Fringe quality 9
 SNR 299556.1
 Int time 239.989
 Amp 10000.000
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500
 Exp. c171b
 Exper # 16383
 Yr:day 2017:090
 Start 153000.00
 Stop 153400.00
 FRT 153200.00
 Corr/FF/build
 2017:208:133600
 2017:213:123555
 2017:170:130423
 RA & Dec (J2000)
 02h24m28.4282s
 +6°59'23.342"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

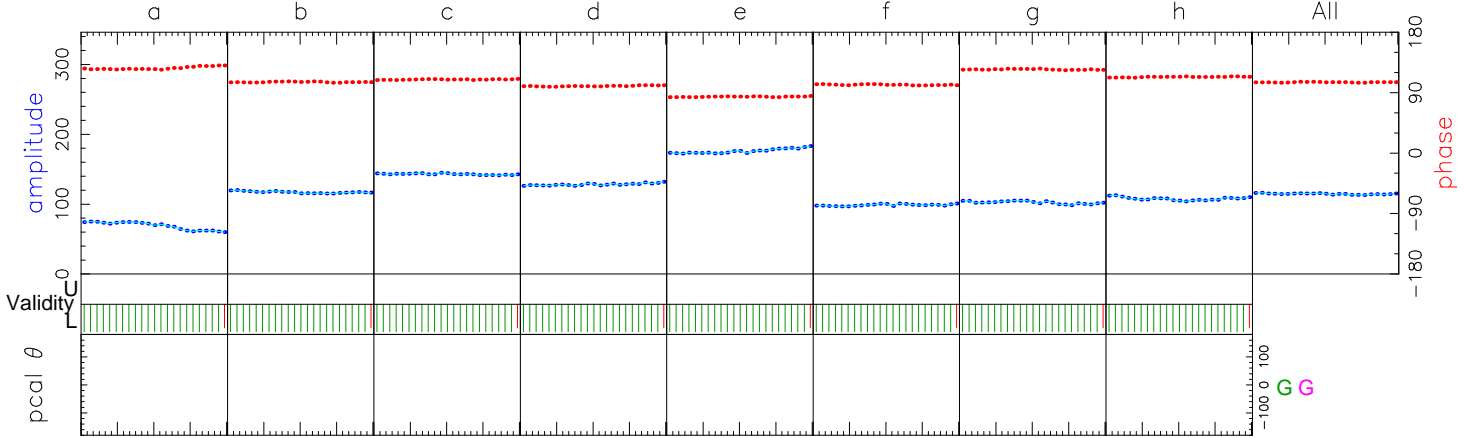


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	10000.0	10000.0
G	0	0	0	0	0	0	0	0	129.0	129.0
G:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	10000.0	10000.0
G:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	129.0	129.0
G	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
G	1000	1000	1000	1000	1000	1000	1000	1000	129.0	129.0
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	10000.0	10000.0
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	129.0	129.0
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 7.2E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 5.8E-08
Phase delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 1.2E-11
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 8.9E-14
Total phase (deg)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	+/- 0.0

ph/seg (deg) 0.0 0.0 Theor. Amplitude 10000.000 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 G: az 108.0 el 31.9 pa -48.5 G: az 108.0 el 31.9 pa -48.5 u,v (fr/asec) 0.000 0.000 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GG..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GG.W.158.zqcxbk simultaneous interpolator



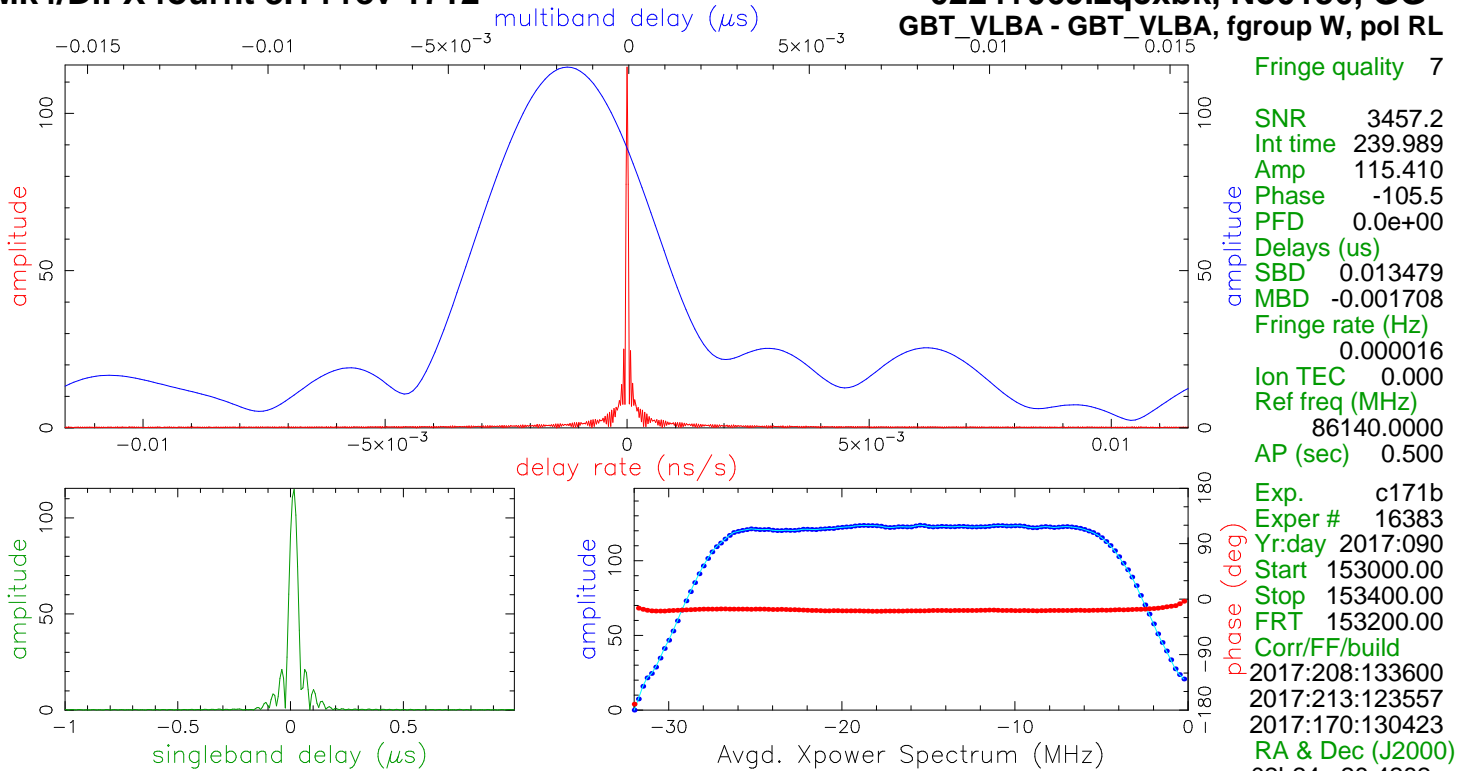
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
126.4	105.7	109.5	99.9	83.9	101.7	124.5	113.3	Phase	105.5
68.9	117.2	143.0	128.3	176.1	98.8	102.5	107.8	Ampl.	117.8
127.1	127.2	127.1	127.1	127.1	127.9	127.1	127.4	Sbd box	127.3
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G 0	0	0	0	0	0	0	0	PC freqs	
G 0	0	0	0	0	0	0	0	PC freqs	
G:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G 1000	1000	1000	1000	1000	1000	1000	1000		
G W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
G W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	

Group delay (usec)(sbd)	1.70768750000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	1.70769E-03	+/-	6.3E-07
Sband delay (usec)	-1.34790000000E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.34790E-02	+/-	5.0E-06
Phase delay (usec)	3.40052209566E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.40052E-06	+/-	1.1E-09
Delay rate (us/s)	-1.87195263524E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-1.87195E-10	+/-	7.7E-12
Total phase (deg)	105.5	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	105.5	+/-	0.0

ph/seg (deg)	0.4	0.1	Amplitude	115.410 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	0.9	0.1	Search (1024X32)	114.100	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.016	0.016
ph/frq (deg)	15.2	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.012	0.012
amp/frq (%)	26.1	0.1	Inc. seg. avg.	114.741	Sample rate(MSamp/s):	64	Data rate(Mb/s):	1024	ion window (TEC)	0.00	0.00
			Inc. frq. avg.	117.819	nlags:	128	t_cohere	infinite			



Fringe quality 7

SNR 3457.2

Int time 239.989

Amp 115.410

Phase -105.5

PFD 0.0e+00

Delays (us)

SBD 0.013479

MBD -0.001708

Fringe rate (Hz) 0.000016

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.500

Exp. c171b

Exper # 16383

Yr:day 2017:090

Start 153000.00

Stop 153400.00

FRT 153200.00

Corr/FF/build

2017:208:133600

2017:213:123557

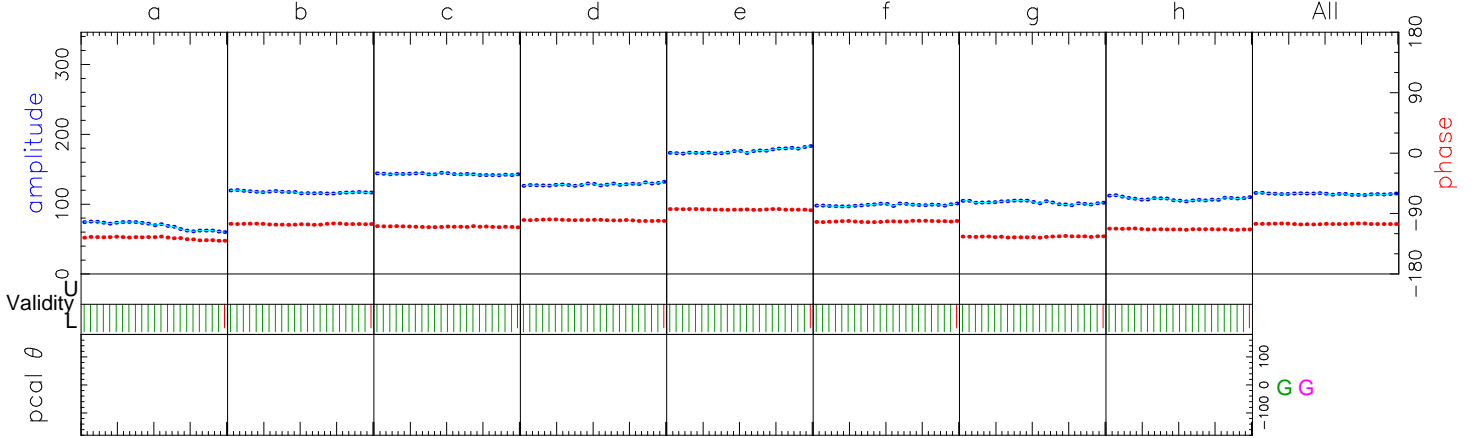
2017:170:130423

RA & Dec (J2000)

02h24m28.4282s

+6°59'23.342"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-126.4	-105.7	-109.5	-99.9	-83.9	-101.7	-124.5	-113.3	Phase	-105.5
	68.9	117.2	143.0	128.3	176.1	98.8	102.5	107.8	Ampl.	117.8
	130.9	130.8	130.9	130.9	130.9	130.1	130.9	130.6	Sbd box	130.7
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
G:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.70768750000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-1.70769E-03	+/- 6.3E-07
Sband delay (usec)	1.34790000000E-02		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		1.34790E-02	+/- 5.0E-06
Phase delay (usec)	-3.40052209597E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-3.40052E-06	+/- 1.1E-09
Delay rate (us/s)	1.87195263524E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		1.87195E-10	+/- 7.7E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-105.5	+/- 0.0

ph/seg (deg) 0.4 0.1

amp/seg (%) 0.9 0.1

ph/frq (deg) 15.2 0.0

amp/frq (%) 26.1 0.1

RMS Theor. Amplitude 115.410 +/- 0.033

Search (1024X32) 114.100

Inc. seg. avg. 114.741

Inc. frq. avg. 117.819

pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

pcal rate: 0.000E+00, 0.000E+00 (us/s)

Bits/sample: 2x2 SampCntNorm: enabled

Sample rate(MSamp/s): 64

Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us) -1.000 1.000

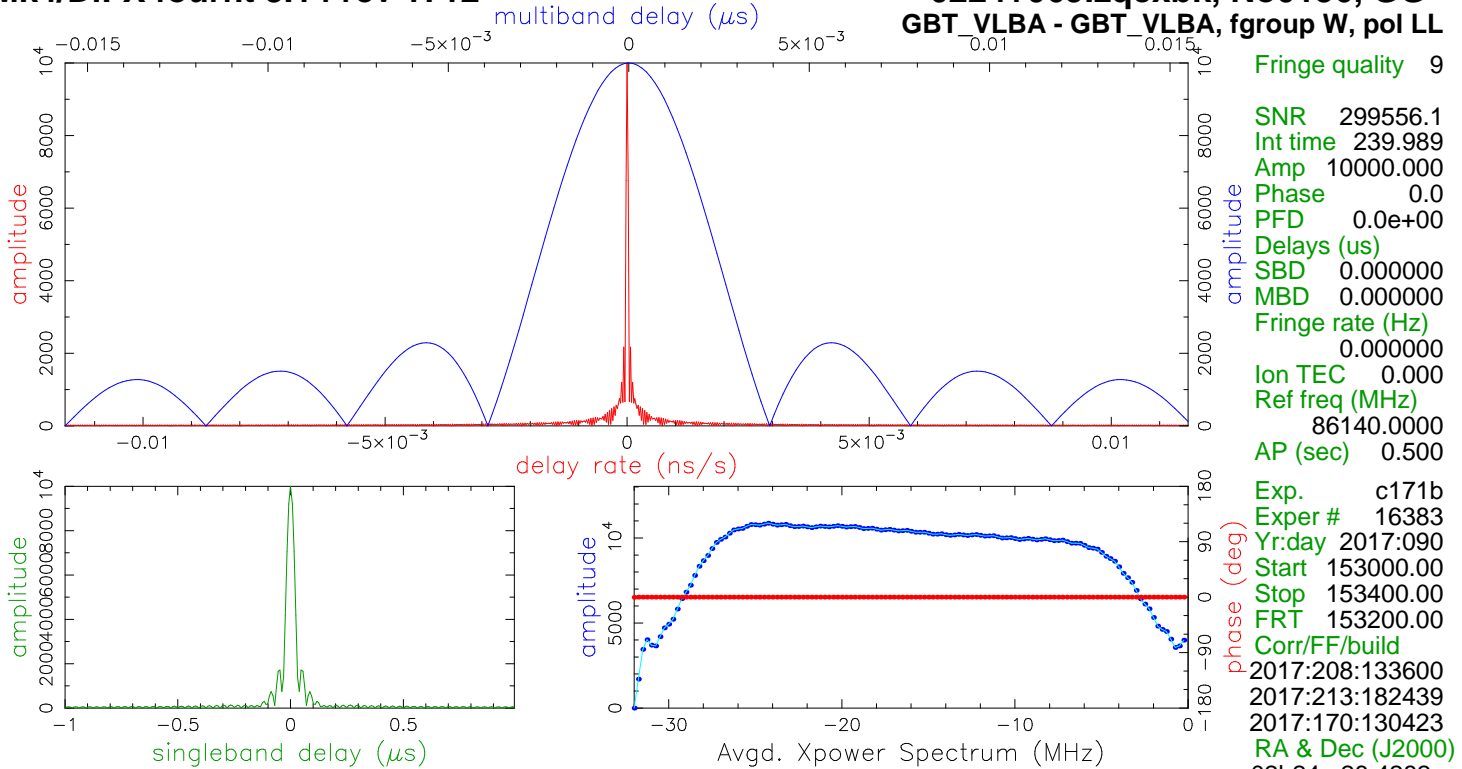
mb window (us) -0.016 0.016

dr window (ns/s) -0.012 0.012

ion window (TEC) 0.00 0.00

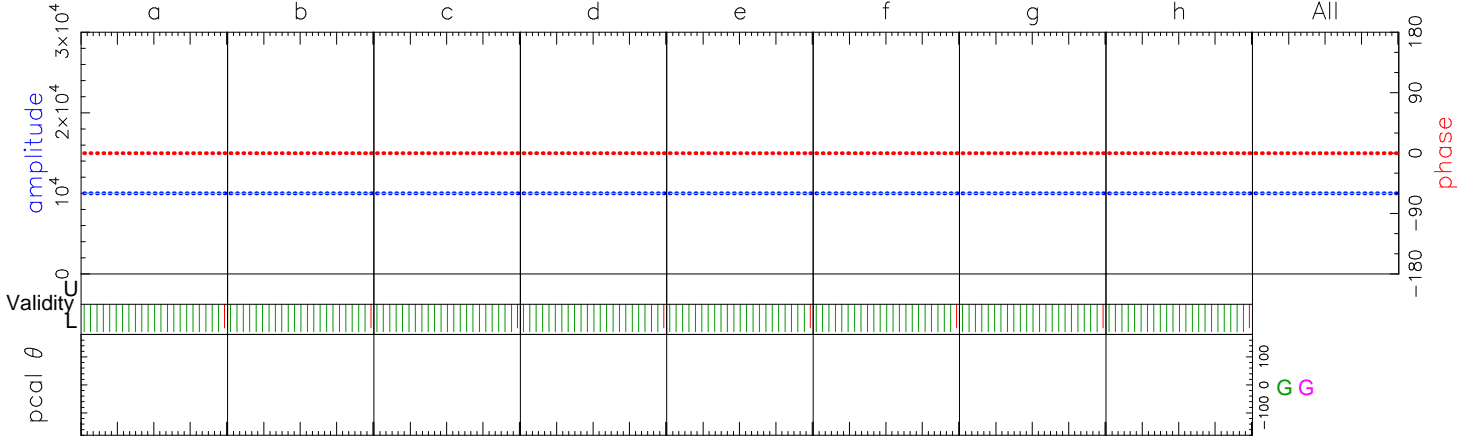
G: az 108.0 el 31.9 pa -48.5 G: az 108.0 el 31.9 pa -48.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GG..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GG.W.160.zqcxbk



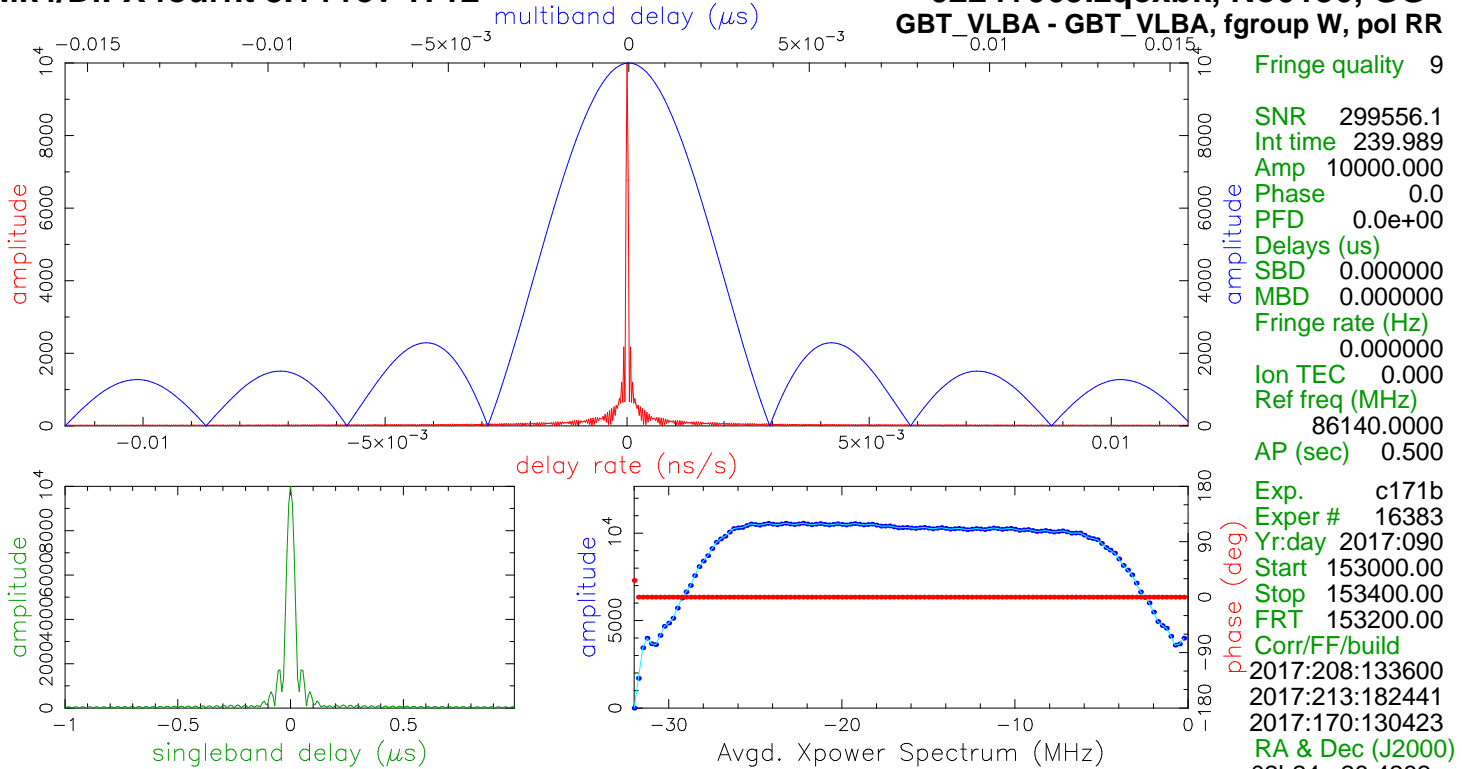
Fringe quality 9
 SNR 299556.1
 Int time 239.989
 Amp 10000.000
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500
 Exp. c171b
 Exper # 16383
 Yr:day 2017:090
 Start 153000.00
 Stop 153400.00
 FRT 153200.00
 Corr/FF/build
 2017:208:133600
 2017:213:182439
 2017:170:130423
 RA & Dec (J2000)
 02h24m28.4282s
 +6°59'23.342"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0.0	0.0
G	0	0	0	0	0	0	0	0	10000.0	10000.0
G:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	129.0	129.0
G	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
G	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	129.0	129.0
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	0.0	0.0
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 7.2E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 5.8E-08
Phase delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 1.2E-11
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 8.9E-14
Total phase (deg)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	+/- 0.0

ph/seg (deg) 0.0 0.0 Theor. Amplitude 10000.000 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 G: az 108.0 el 31.9 pa -48.5 G: az 108.0 el 31.9 pa -48.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GG..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GG.W.421.zqcxbk



Fringe quality 9

SNR 299556.1

Int time 239.989

Amp 10000.000

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) 0.500

Exp. c171b

Exper # 16383

Yr:day 2017:090

Start 153000.00

Stop 153400.00

FRT 153200.00

Corr/FF/build

2017:208:133600

2017:213:182441

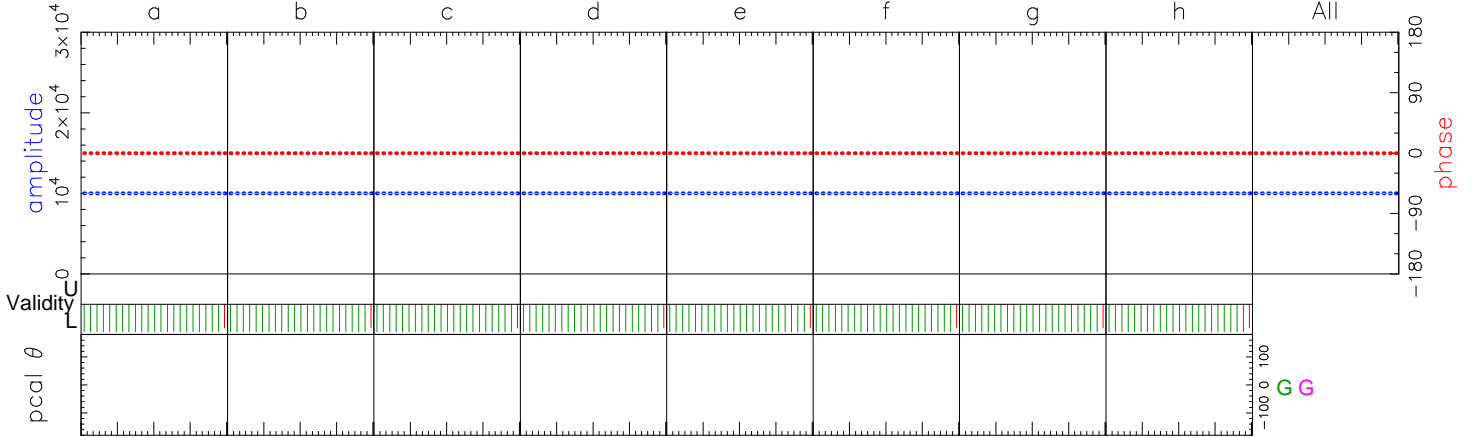
2017:170:130423

RA & Dec (J2000)

02h24m28.4282s

+6°59'23.342"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Phase	0.0
	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	Sbd box	129.0
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
G:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	0.0000000000E+00		Apriori delay (usec)		0.0000000000E+00		Resid mbdelay (usec)		0.00000E+00 +/- 7.2E-09	
Sband delay (usec)	0.0000000000E+00		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		0.00000E+00 +/- 5.8E-08	
Phase delay (usec)	0.0000000000E+00		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		0.00000E+00 +/- 1.2E-11	
Delay rate (us/s)	0.0000000000E+00		Apriori rate (us/s)		0.0000000000E+00		Resid rate (us/s)		0.00000E+00 +/- 8.9E-14	
Total phase (deg)	0.0		Apriori accel (us/s/s)		0.0000000000E+00		Resid phase (deg)		0.0 +/- 0.0	

ph/seg (deg) 0.0 0.0 Theor. Amplitude 10000.000 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

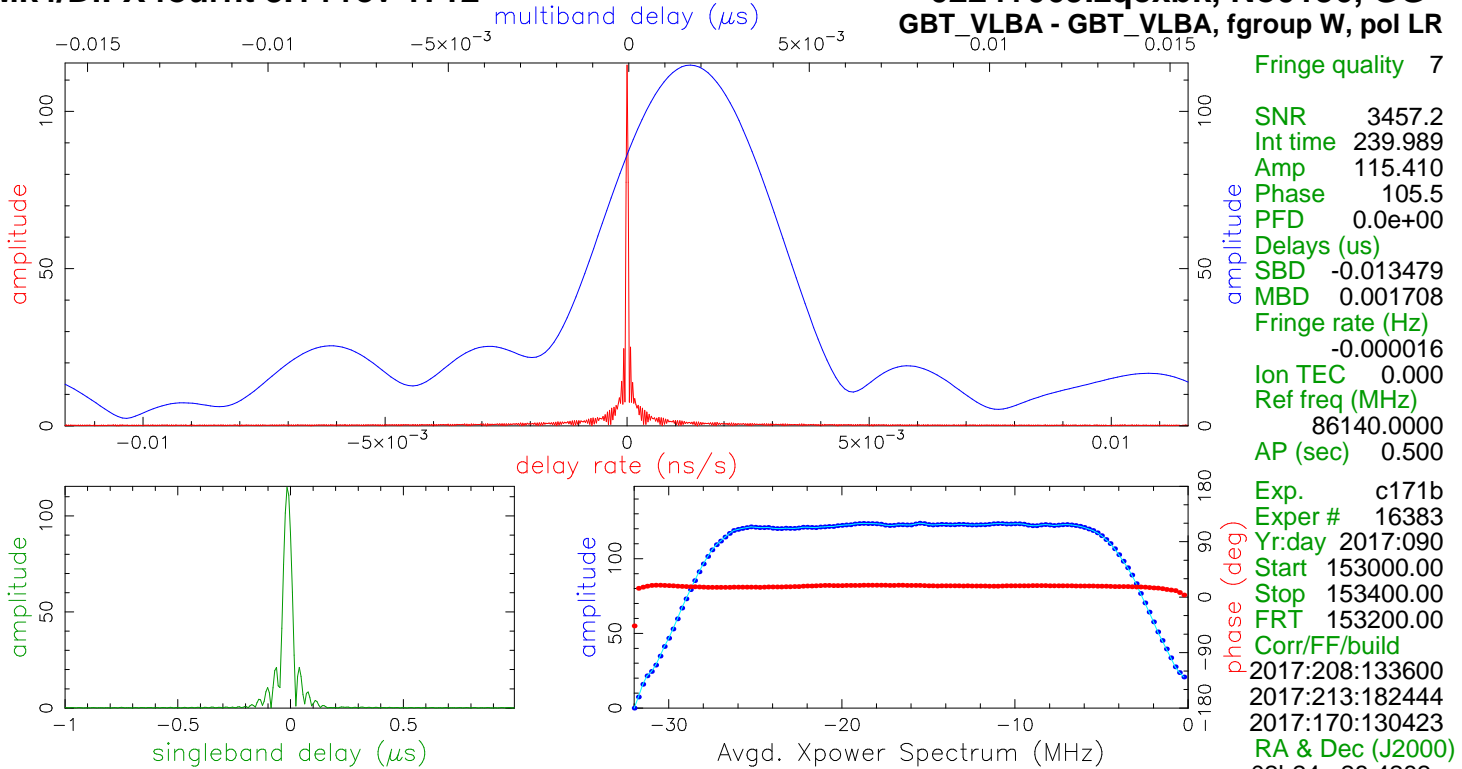
amp/seg (%) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

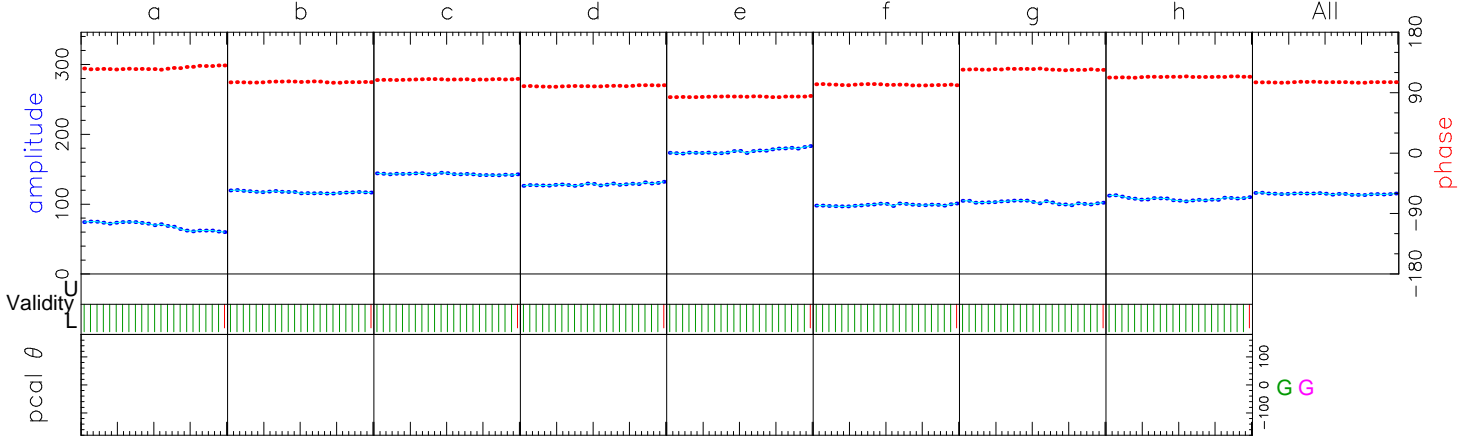
amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

G: az 108.0 el 31.9 pa -48.5 G: az 108.0 el 31.9 pa -48.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GG..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GG.W.422.zqcxbk



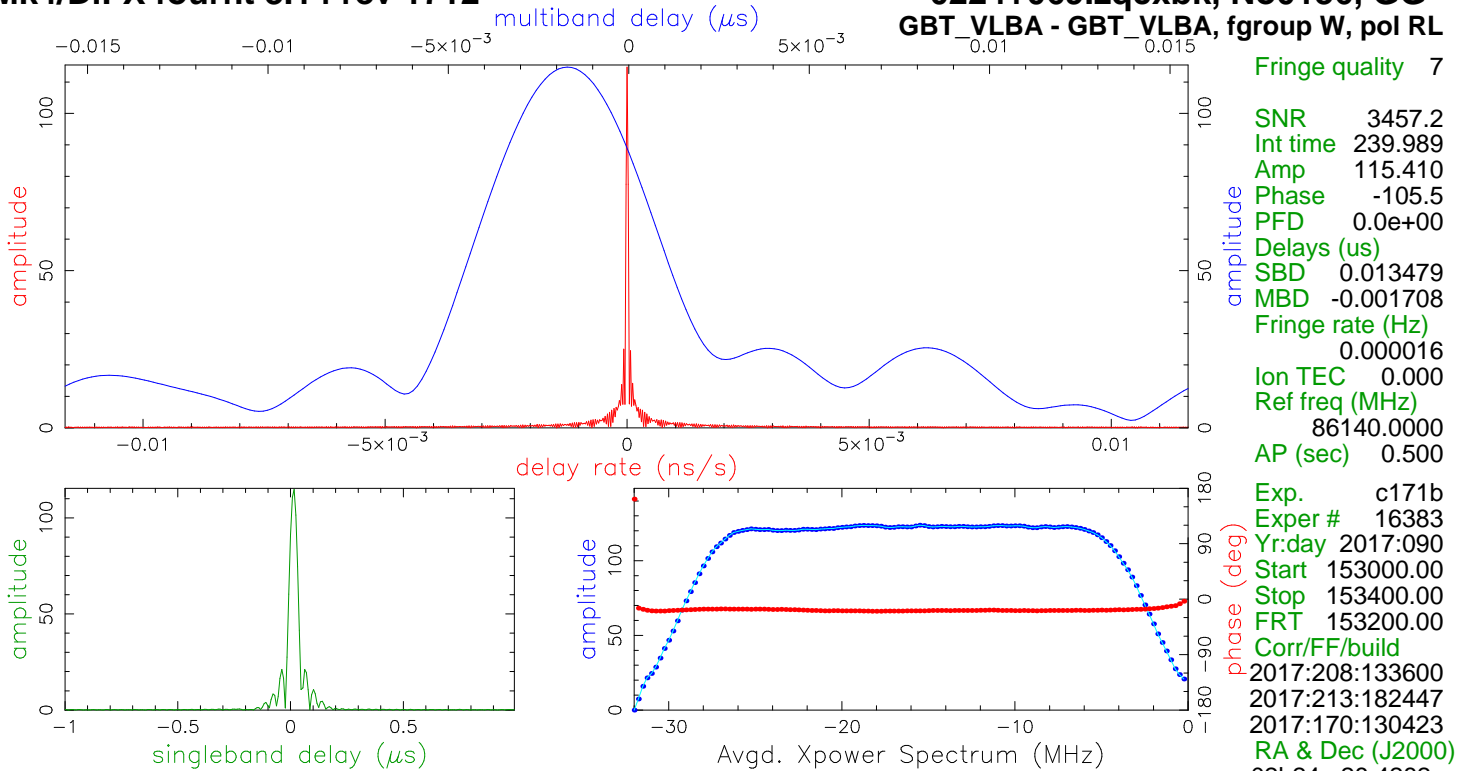
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	126.4	105.7	109.5	99.9	83.9	101.7	124.5	113.3	Phase	105.5
	68.9	117.2	143.0	128.3	176.1	98.8	102.5	107.8	Ampl.	117.8
	127.1	127.2	127.1	127.1	127.1	127.9	127.1	127.4	Sbd box	127.3
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
G:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

Group delay (usec)(sbd)	1.70768750000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	1.70769E-03	+/-	6.3E-07
Sband delay (usec)	-1.34790000000E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.34790E-02	+/-	5.0E-06
Phase delay (usec)	3.40052209566E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.40052E-06	+/-	1.1E-09
Delay rate (us/s)	-1.87195263524E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-1.87195E-10	+/-	7.7E-12
Total phase (deg)	105.5	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	105.5	+/-	0.0

ph/seg (deg)	0.4	0.1	Amplitude	115.410 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000		
amp/seg (%)	0.9	0.1	Search (1024X32)	114.100	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	SampCntNorm:	enabled	mb window (us)	-0.016	0.016		
ph/frq (deg)	15.2	0.0	Inc. seg. avg.	114.741	Bits/sample:	2x2	Sample rate (MSamp/s):	64	dr window (ns/s)	-0.012	0.012		
amp/frq (%)	26.1	0.1	Inc. frq. avg.	117.819	Data rate (Mb/s):	1024	nlags:	128	t_cohere	infinite	ion window (TEC)	0.00	0.00



Fringe quality 7

SNR 3457.2

Int time 239.989

Amp 115.410

Phase -105.5

PFD 0.0e+00

Delays (us)

SBD 0.013479

MBD -0.001708

Fringe rate (Hz) 0.000016

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.500

Exp. c171b

Exper # 16383

Yr:day 2017:090

Start 153000.00

Stop 153400.00

FRT 153200.00

Corr/FF/build

2017:208:133600

2017:213:182447

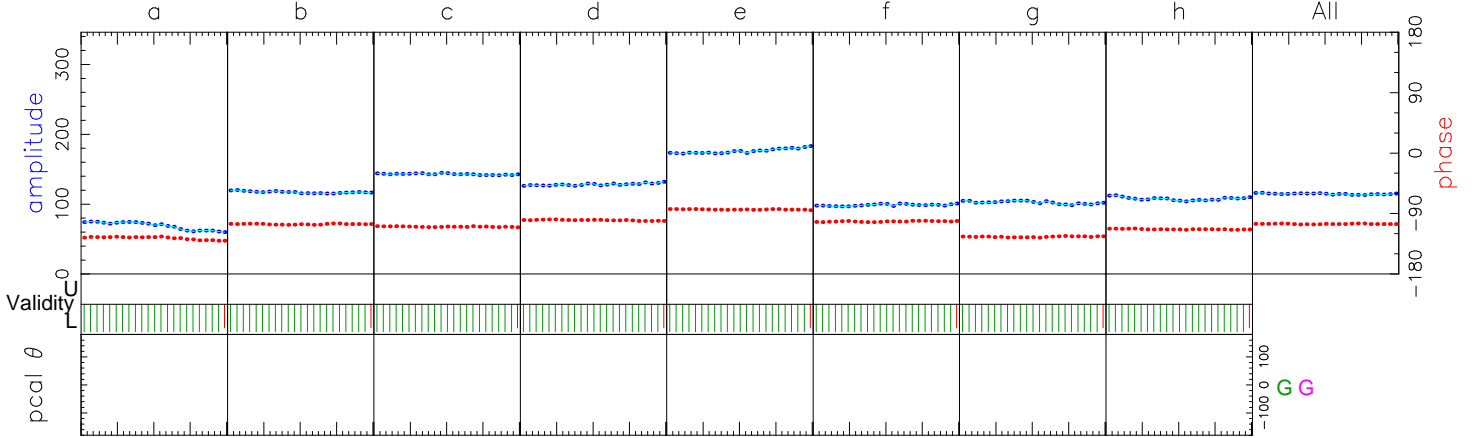
2017:170:130423

RA & Dec (J2000)

02h24m28.4282s

+6°59'23.342"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-126.4	-105.7	-109.5	-99.9	-83.9	-101.7	-124.5	-113.3	Phase	-105.5
68.9	117.2	143.0	128.3	176.1	98.8	102.5	107.8	Ampl.	117.8
130.9	130.8	130.9	130.9	130.9	130.1	130.9	130.6	Sbd box	130.7
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G 0	0	0	0	0	0	0	0	PC freqs	
G 0	0	0	0	0	0	0	0	PC freqs	
G:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G 1000	1000	1000	1000	1000	1000	1000	1000		
G W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
G W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-1.70768750000E-03		Apriori delay (usec)	0.00000000000E+00		Resid mbdelay (usec)	-1.70769E-03	+/-	6.3E-07
Sband delay (usec)	1.34790000000E-02		Apriori clock (usec)	0.0000000E+00		Resid sbdelay (usec)	1.34790E-02	+/-	5.0E-06
Phase delay (usec)	-3.40052209597E-06		Apriori clockrate (us/s)	0.0000000E+00		Resid phdelay (usec)	-3.40052E-06	+/-	1.1E-09
Delay rate (us/s)	1.87195263524E-10		Apriori rate (us/s)	0.00000000000E+00		Resid rate (us/s)	1.87195E-10	+/-	7.7E-12
Total phase (deg)	-105.5		Apriori accel (us/s/s)	0.00000000000E+00		Resid phase (deg)	-105.5	+/-	0.0

ph/seg (deg) 0.4 0.1

amp/seg (%) 0.9 0.1

ph/frq (deg) 15.2 0.0

amp/frq (%) 26.1 0.1

RMS Theor. Amplitude 115.410 +/- 0.033

Search (1024X32) 114.100

Inc. seg. avg. 114.741

Inc. frq. avg. 117.819

PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5

PCal rate: 0.000E+00, 0.000E+00 (us/s)

Bits/sample: 2x2 SampCntNorm: enabled

Sample rate(MSamp/s): 64

Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

sb window (us) -1.000 1.000

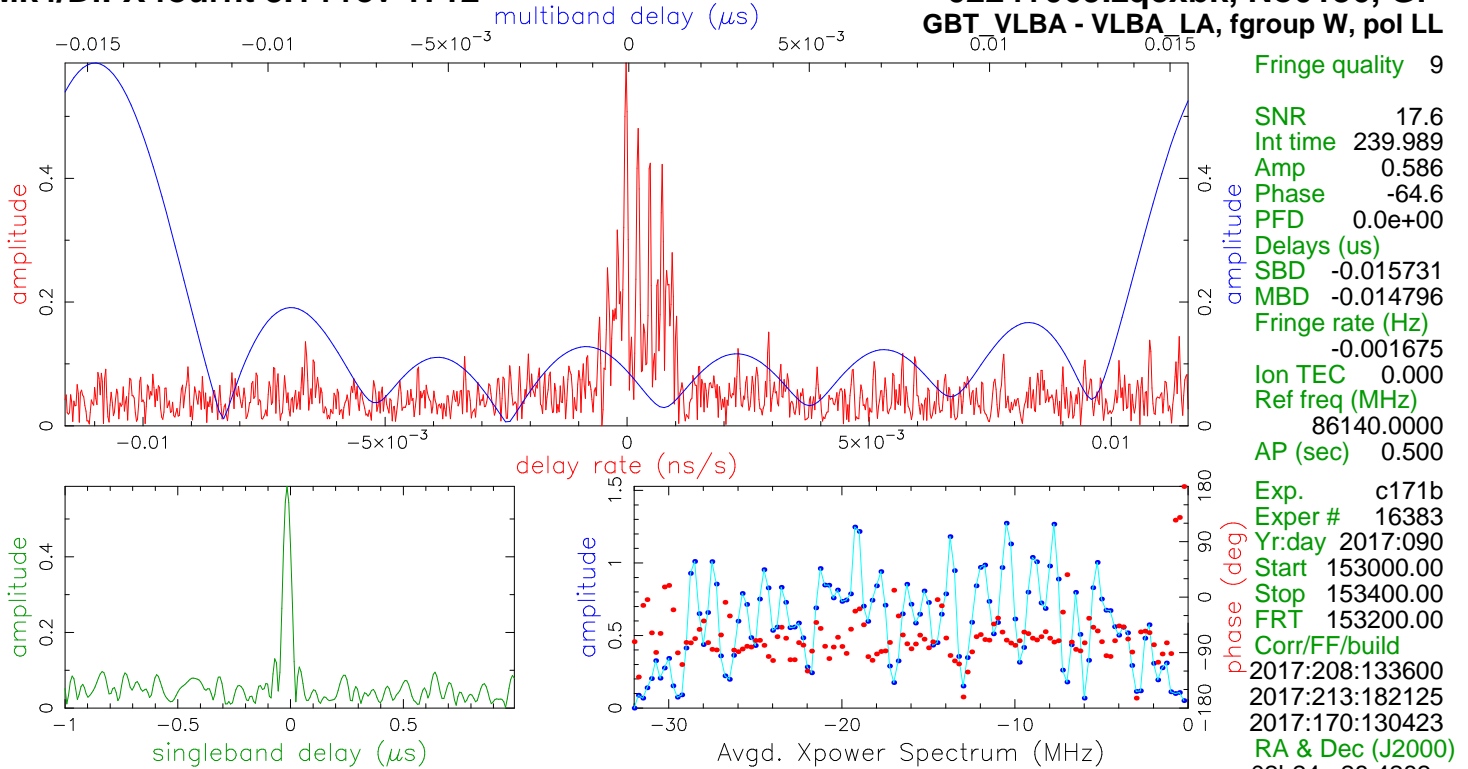
mb window (us) -0.016 0.016

dr window (ns/s) -0.012 0.012

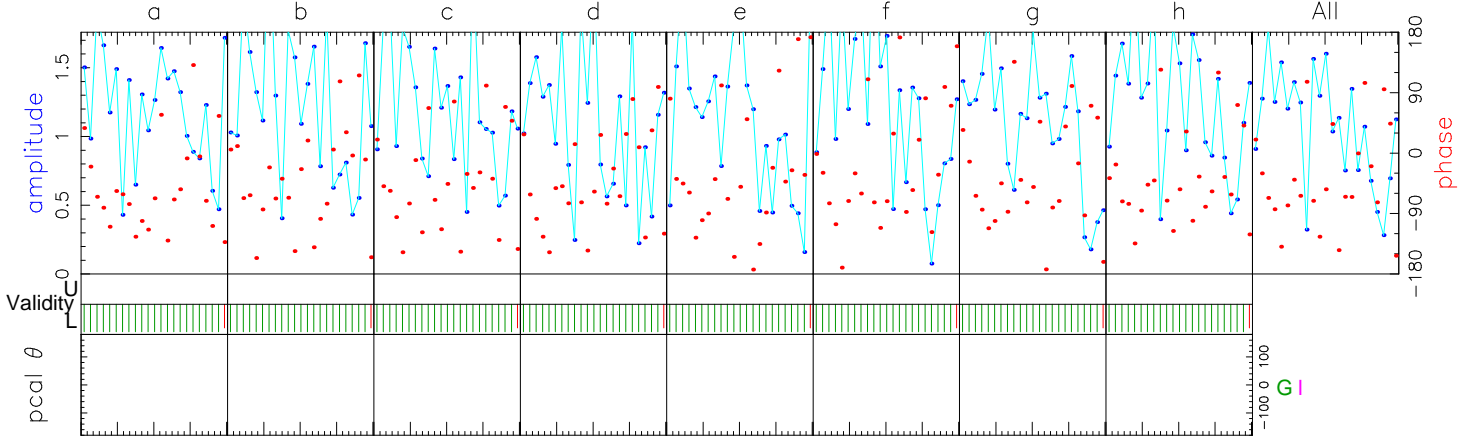
ion window (TEC) 0.00 0.00

G: az 108.0 el 31.9 pa -48.5 G: az 108.0 el 31.9 pa -48.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GG..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GG.W.424.zqcxbk



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

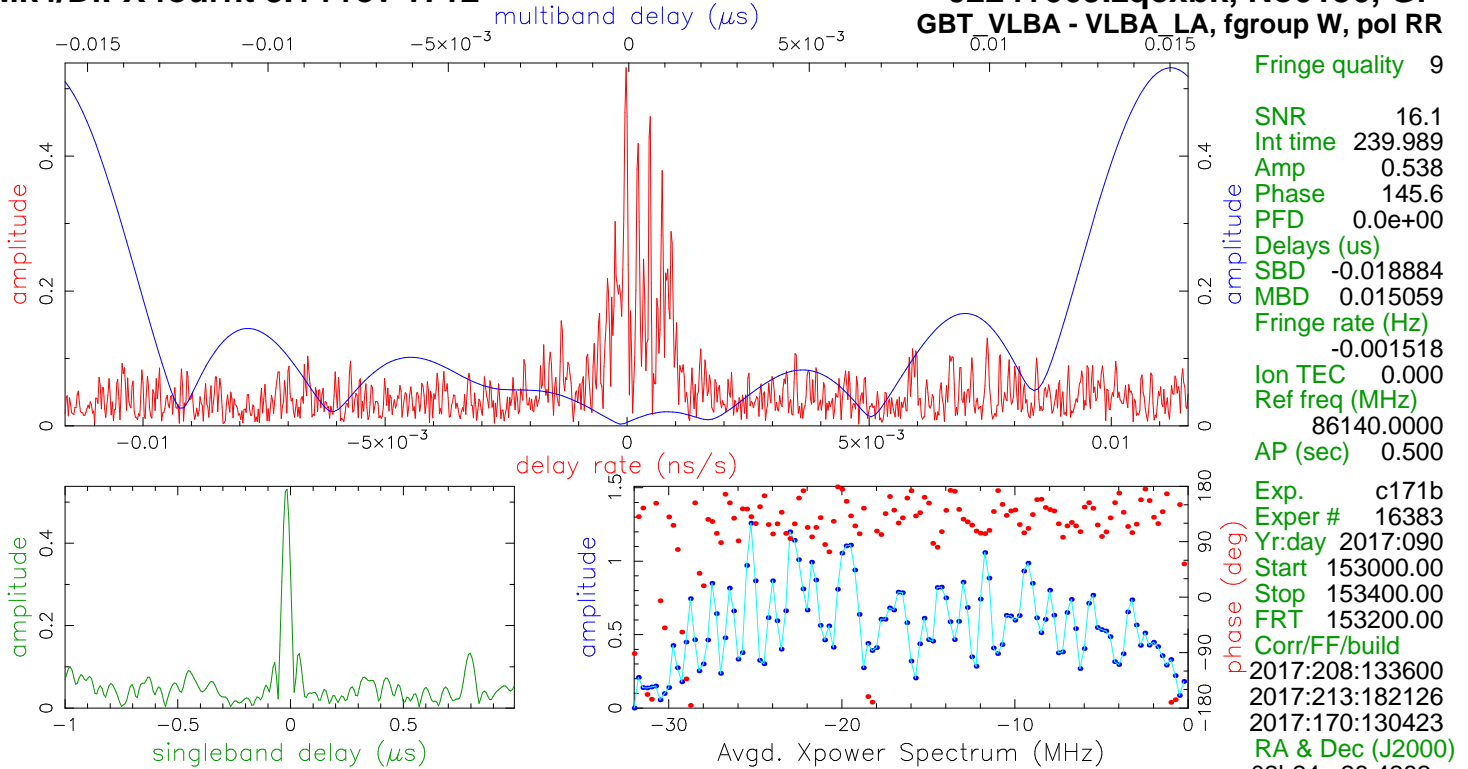


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-69.4	-55.0	-60.9	-68.2	-78.2	-68.5	-51.2	-65.8	Phase	-64.6
	0.7	0.7	0.6	0.5	0.5	0.5	0.5	0.8	Ampl.	0.6
	127.4	127.1	127.5	126.6	126.3	127.0	126.8	127.2	Sbd box	127.0
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
I	0	0	0	0	0	0	0	0	PC freqs	
G:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
I	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.96420061012E+03		Apriori delay (usec)		6.96421540621E+03		Resid mbdelay (usec)		-1.47961E-02	+/- 1.2E-04
Sband delay (usec)	6.96419967571E+03		Apriori clock (usec)		-6.9577761E+00		Resid sbdelay (usec)		-1.57305E-02	+/- 9.8E-04
Phase delay (usec)	6.96421540413E+03		Apriori clockrate (us/s)		3.3261311E-07		Resid phdelay (usec)		-2.08244E-06	+/- 2.1E-07
Delay rate (us/s)	-2.56517798066E-01		Apriori rate (us/s)		-2.56517778617E-01		Resid rate (us/s)		-1.94494E-08	+/- 1.5E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.65533589193E-05		Resid phase (deg)		-64.6	+/- 6.5

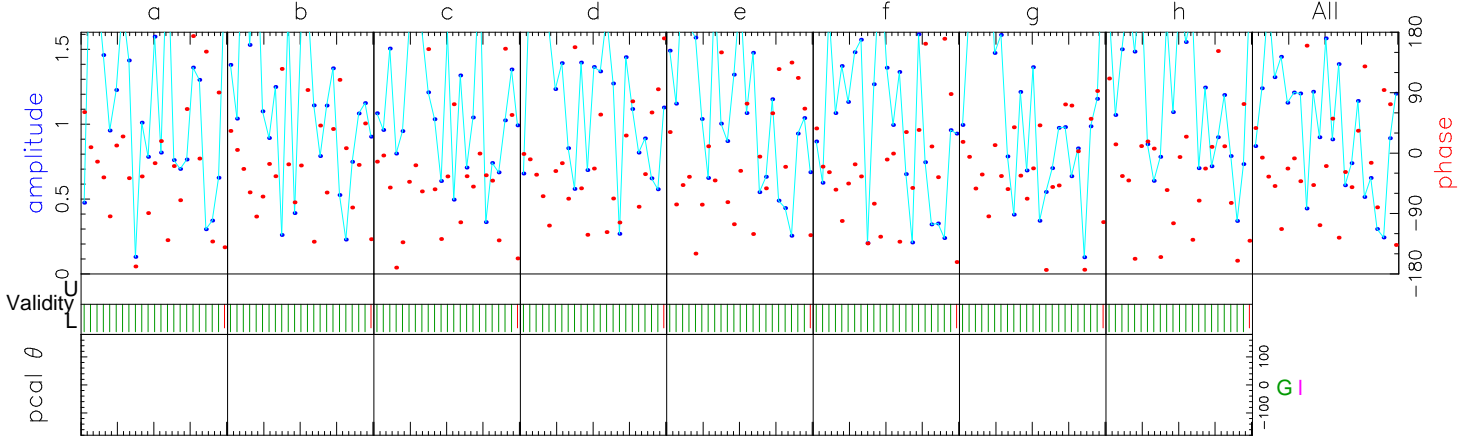
	RMS	Theor.	Amplitude	0.586 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	79.5	15.6	Search (1024X32)	0.582	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	108.1	27.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.016 0.016
ph/frq (deg)	9.3	9.2	Inc. seg. avg.	1.037	Sample rate(MSamp/s): 64	dr window (ns/s) -0.012 0.012
amp/frq (%)	17.0	16.1	Inc. frq. avg.	0.584	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 108.0 el 31.9 pa -48.5 I: az 89.5 el 11.5 pa -54.8 u,v (fr/asec) 1455.141 -31.673 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GI.zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GI.W.349.zqcxbk



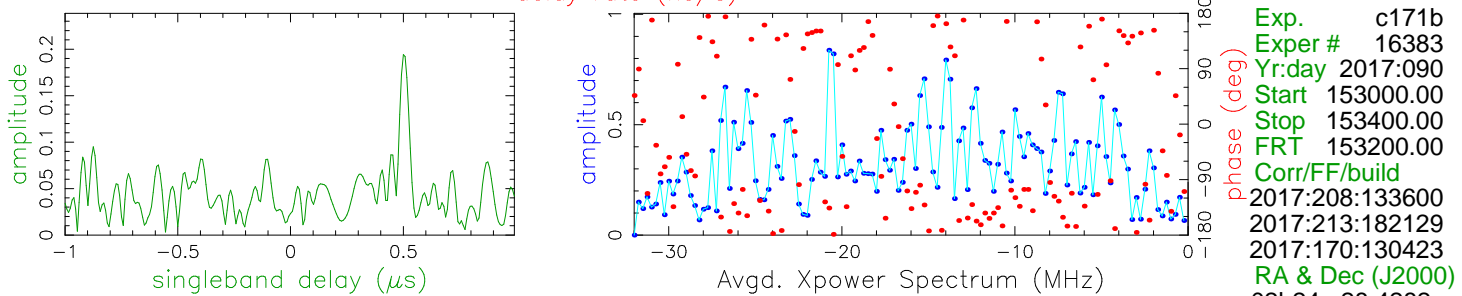
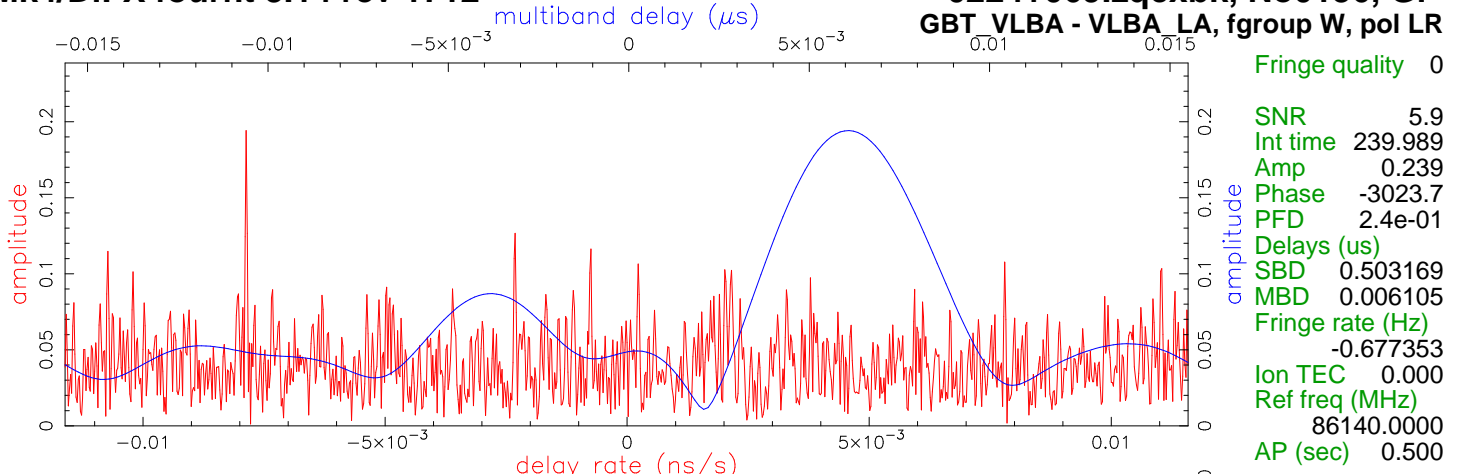
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



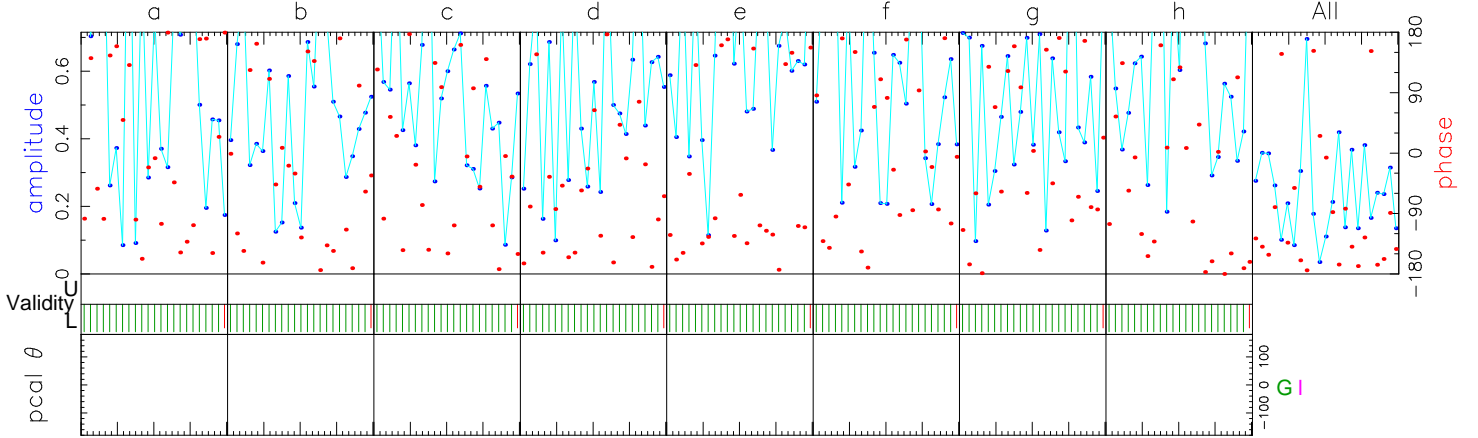
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-27.3	-23.7	-47.6	-38.2	-42.8	-42.2	-27.6	-32.1	Phase	-34.4
	0.5	0.6	0.5	0.6	0.4	0.5	0.7	0.5	Ampl.	0.5
	126.5	126.2	127.7	126.4	126.8	126.8	126.6	125.8	Sbd box	126.6
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
I	0	0	0	0	0	0	0	0	PC freqs	
G:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
I	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.96419921543E+03		Apriori delay (usec)		6.96421540621E+03		Resid mbdelay (usec)		1.50592E-02	+/- 1.3E-04
Sband delay (usec)	6.96419652271E+03		Apriori clock (usec)		-6.9577761E+00		Resid sbdelay (usec)		-1.88835E-02	+/- 1.1E-03
Phase delay (usec)	6.96421540510E+03		Apriori clockrate (us/s)		3.3261311E-07		Resid phdelay (usec)		-1.10954E-06	+/- 2.3E-07
Delay rate (us/s)	-2.56517796239E-01		Apriori rate (us/s)		-2.56517778617E-01		Resid rate (us/s)		-1.76225E-08	+/- 1.7E-09
Total phase (deg)	178.3		Apriori accel (us/s/s)		-3.65533589193E-05		Resid phase (deg)		145.6	+/- 7.1

ph/seg (deg) 76.3 17.0 Theor. Amplitude 0.538 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 113.9 29.7 Search (1024X32) 0.520 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 9.5 10.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 16.4 17.5 Inc. seg. avg. 0.956 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 Inc. frq. avg. 0.529 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

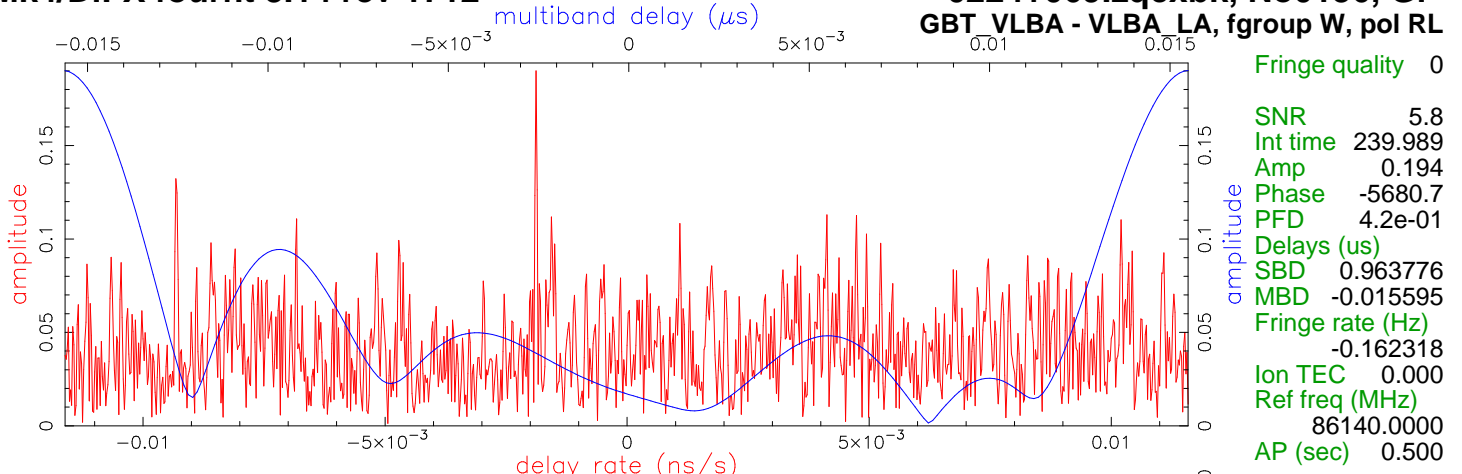
G: az 108.0 el 31.9 pa -48.5 I: az 89.5 el 11.5 pa -54.8 u,v (fr/asec) 1455.141 -31.673 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GI.zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GI.W.350.zqcxbk



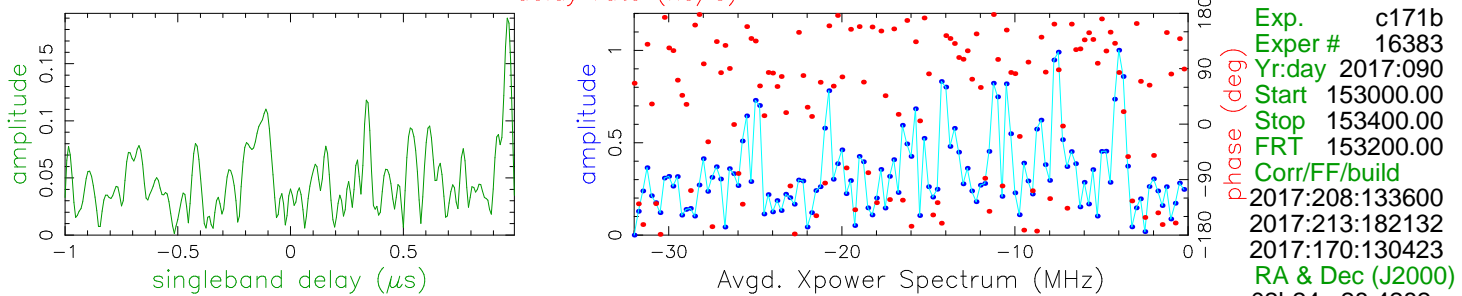
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-129.7	-161.8	-161.2	-114.1	-154.5	-124.6	-120.7	-169.7	Phase	-143.7
	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
	62.2	2.9	170.5	241.4	125.2	93.9	177.3	80.8	Sbd box	193.4
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
I	0	0	0	0	0	0	0	0	PC freqs	
G:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
I	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.96472151141E+03		Apriori delay (usec)		6.96421540621E+03		Resid mbdelay (usec)		6.10520E-03	+/- 3.7E-04
Sband delay (usec)	6.96471857521E+03		Apriori clock (usec)		-6.9577761E+00		Resid sbdelay (usec)		5.03169E-01	+/- 2.9E-03
Phase delay (usec)	6.96421540157E+03		Apriori clockrate (us/s)		3.3261311E-07		Resid phdelay (usec)		-4.63473E-06	+/- 6.3E-07
Delay rate (us/s)	-2.56525642009E-01		Apriori rate (us/s)		-2.56517778617E-01		Resid rate (us/s)		-7.86339E-06	+/- 4.5E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.65533589193E-05		Resid phase (deg)		-3023.7	+/- 19.5
RMS	Theor.	Amplitude	0.239 +/- 0.041		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	61.5	46.8	Search (1024X32)	0.188	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000
amp/seg (%)	77.1	81.7	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		-0.016	0.016
ph/frq (deg)	23.8	27.6	Inc. seg. avg.	0.228	Sample rate(MSamp/s): 64		dr window (ns/s)		-0.012	0.012
amp/frq (%)	50.7	48.2	Inc. frq. avg.	0.223	Data rate(Mb/s): 1024		nlags: 128 t_cohere infinite		ion window (TEC)	0.00 0.00

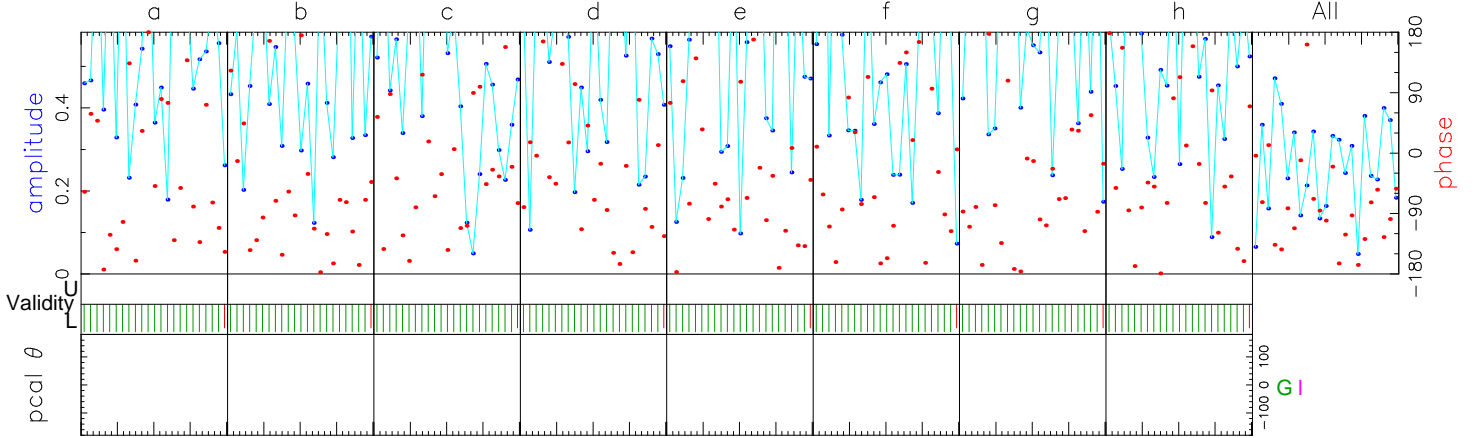


Fringe quality 0
 SNR 5.8
 Int time 239.989
 Amp 0.194
 Phase -5680.7
 PFD 4.2e-01
 Delays (us)
 SBD 0.963776
 MBD -0.015595
 Fringe rate (Hz)
 -0.162318
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



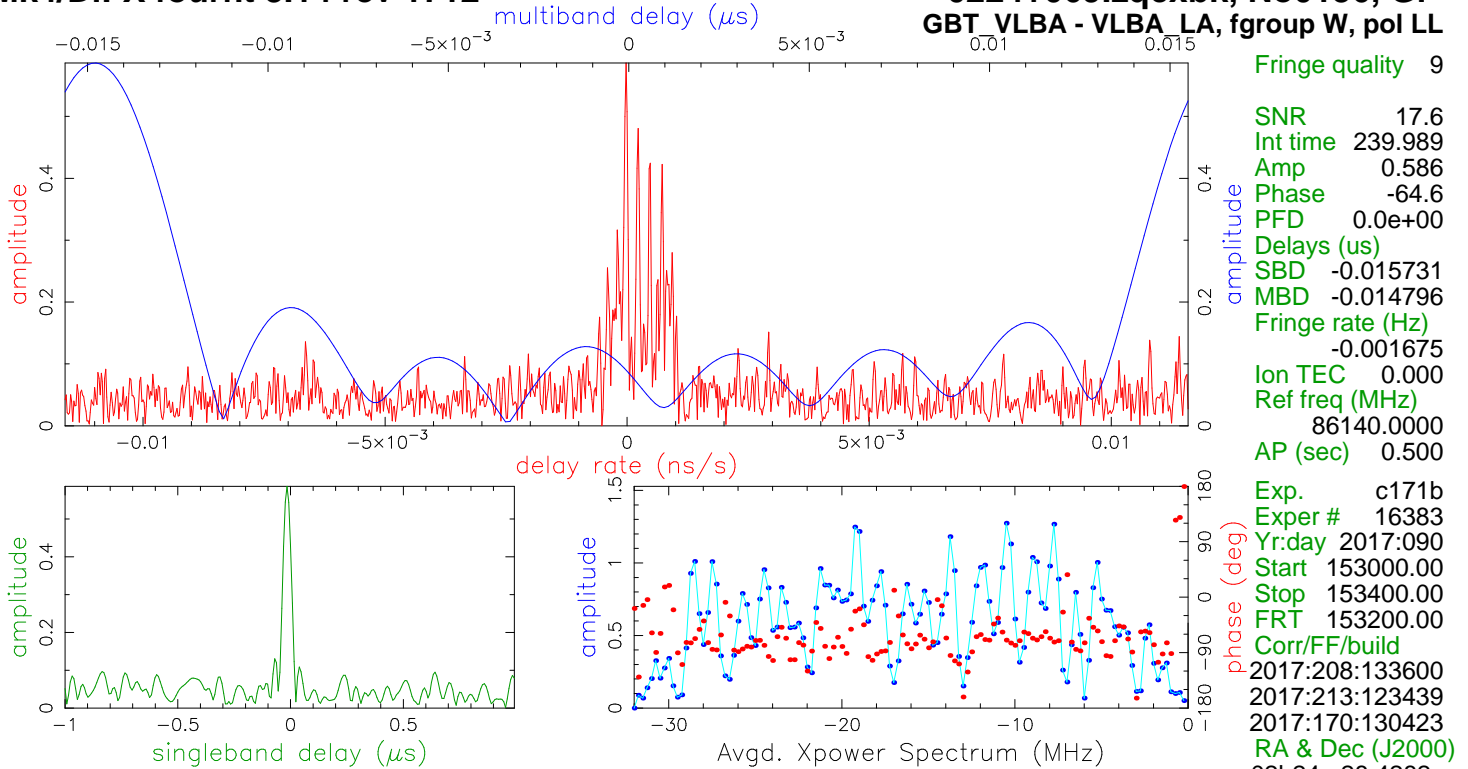
Exp. c171b
 Exper # 16383
 Yr:day 2017:090
 Start 153000.00
 Stop 153400.00
 FRT 153200.00
 Corr/FF/build
 2017:208:133600
 2017:213:182132
 2017:170:130423
 RA & Dec (J2000)
 02h24m28.4282s
 +6°59'23.342"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

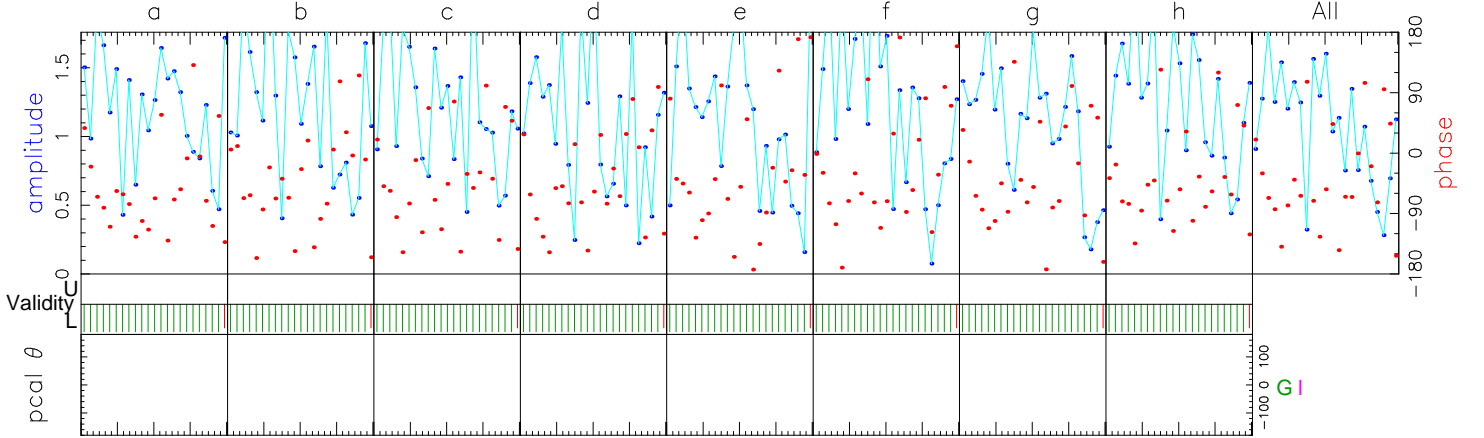


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All		
	-122.7	-103.5	-54.6	-85.9	-106.8	-130.1	-100.6	-106.7	Phase	-100.7		
	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.1	Ampl.	0.2		
	150.8	252.9	1.9	131.0	206.0	116.1	252.1	246.3	Sbd box	252.4		
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used			
G	0	0	0	0	0	0	0	0	PC freqs			
I	0	0	0	0	0	0	0	0	PC freqs			
G:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase			
G:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC			
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp			
I	1000	1000	1000	1000	1000	1000	1000	1000				
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids			
I	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks			
									Tracks			
Group delay (usec)(sbd)	6.96516856102E+03		Apriori delay (usec)		6.96421540621E+03		Resid mbdelay (usec)		-1.55952E-02	+/- 3.8E-04		
Sband delay (usec)	6.96517918171E+03		Apriori clock (usec)		-6.9577761E+00		Resid sbdelay (usec)		9.63776E-01	+/- 3.0E-03		
Phase delay (usec)	6.96421540296E+03		Apriori clockrate (us/s)		3.3261311E-07		Resid phdelay (usec)		-3.24696E-06	+/- 6.4E-07		
Delay rate (us/s)	-2.56519662969E-01		Apriori rate (us/s)		-2.56517778617E-01		Resid rate (us/s)		-1.88435E-06	+/- 4.6E-09		
Total phase (deg)			Apriori accel (us/s/s)		-3.65533589193E-05		Resid phase (deg)		-5680.7	+/- 19.9		
RMS	Theor.	Amplitude	0.194 +/- 0.034		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5					
ph/seg (deg)	54.0	47.8	Search (1024X32)		0.185		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
amp/seg (%)	69.9	83.4	Interp.		0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016 0.016	
ph/frq (deg)	25.1	28.2	Inc. seg. avg.		0.199		Sample rate(MSamp/s): 64			dr window (ns/s)	-0.012 0.012	
amp/frq (%)	30.8	49.2	Inc. frq. avg.		0.183		Data rate(Mb/s): 1024		nlags: 128	t_cohere infinite	ion window (TEC)	0.00 0.00

G: az 108.0 el 31.9 pa -48.5 I: az 89.5 el 11.5 pa -54.8 u,v (fr/asec) 1455.141 -31.673 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GI.W.352.zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GI.W.352.zqcxbk



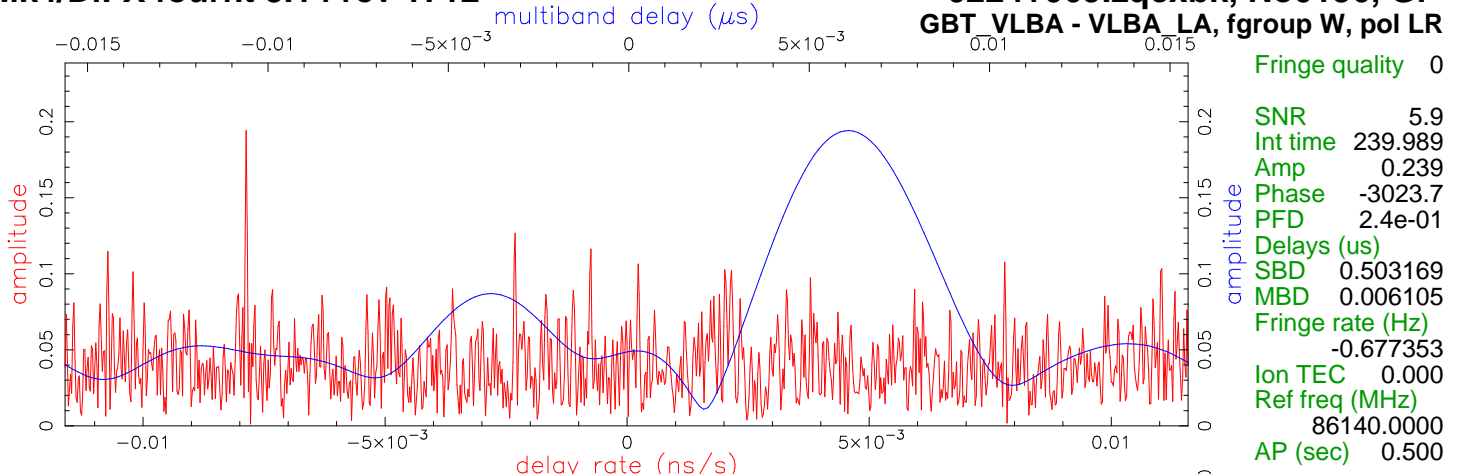
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-69.4	-55.0	-60.9	-68.2	-78.2	-68.5	-51.2	-65.8	Phase	-64.6
	0.7	0.7	0.6	0.5	0.5	0.5	0.5	0.8	Ampl.	0.6
	127.4	127.1	127.5	126.6	126.3	127.0	126.8	127.2	Sbd box	127.0
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
I	0	0	0	0	0	0	0	0	PC freqs	
G:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
I	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.96420061012E+03		Apriori delay (usec)		6.96421540621E+03		Resid mbdelay (usec)		-1.47961E-02	+/- 1.2E-04
Sband delay (usec)	6.96419967571E+03		Apriori clock (usec)		-6.9577761E+00		Resid sbdelay (usec)		-1.57305E-02	+/- 9.8E-04
Phase delay (usec)	6.96421540413E+03		Apriori clockrate (us/s)		3.3261311E-07		Resid phdelay (usec)		-2.08244E-06	+/- 2.1E-07
Delay rate (us/s)	-2.56517798066E-01		Apriori rate (us/s)		-2.56517778617E-01		Resid rate (us/s)		-1.94494E-08	+/- 1.5E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.65533589193E-05		Resid phase (deg)		-64.6	+/- 6.5

	RMS	Theor.	Amplitude	0.586 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	79.5	15.6	Search (1024X32)	0.582	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				
amp/seg (%)	108.1	27.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	9.3	9.2	Inc. seg. avg.	1.037	Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012
amp/frq (%)	17.0	16.1	Inc. frq. avg.	0.584	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00

G: az 108.0 el 31.9 pa -48.5 I: az 89.5 el 11.5 pa -54.8 u,v (fr/asec) 1455.141 -31.673 simultaneous interpolator
Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GI.zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GI.W.85.zqcxbk



Fringe quality 0

SNR 5.9

Int time 239.989

Amp 0.239

Phase -3023.7

PFD 2.4e-01

Delays (us)

SBD 0.503169

MBD 0.006105

Fringe rate (Hz)

-0.677353

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.500

Exp. c171b

Exper # 16383

Yr:day 2017:090

Start 153000.00

Stop 153400.00

FRT 153200.00

Corr/FF/build

2017:208:133600

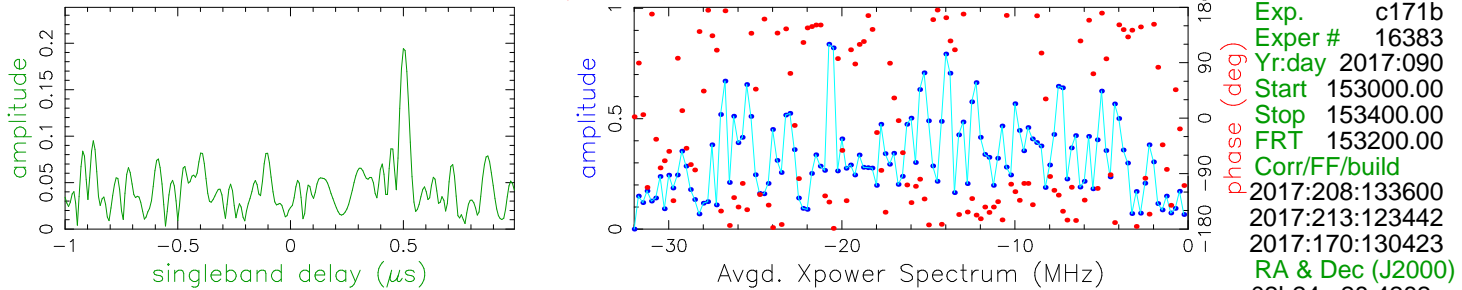
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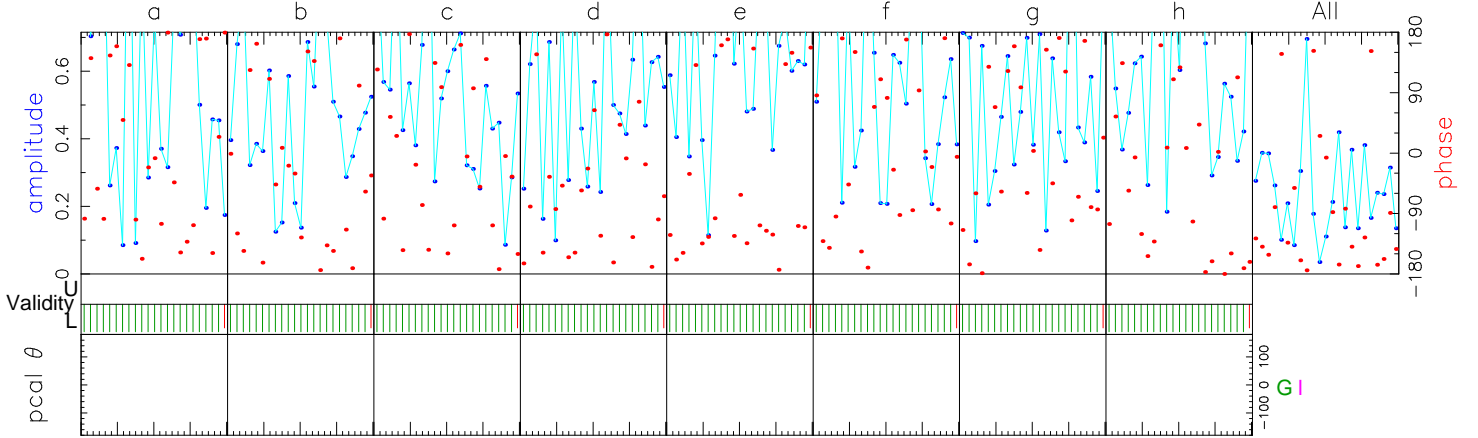
RA & Dec (J2000)

02h24m28.4282s

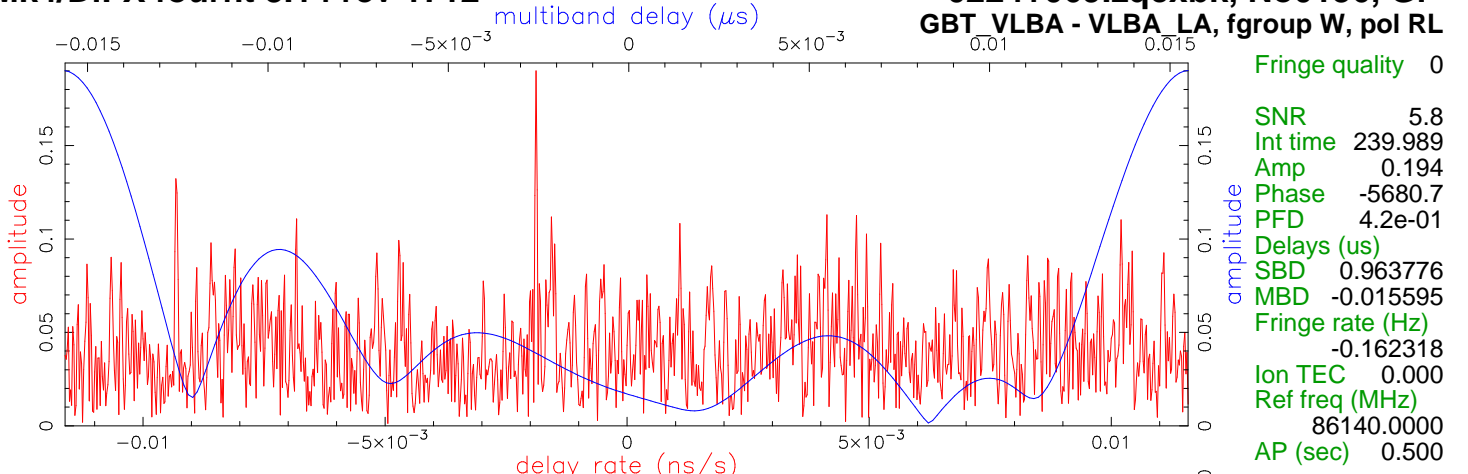
+6°59'23.342"



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-129.7	-161.8	-161.2	-114.1	-154.5	-124.6	-120.7	-169.7	Phase	-143.7
	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
	62.2	2.9	170.5	241.4	125.2	93.9	177.3	80.8	Sbd box	193.4
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
I	0	0	0	0	0	0	0	0	PC freqs	
G:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
I	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.96472151141E+03		Apriori delay (usec)		6.96421540621E+03		Resid mbdelay (usec)		6.10520E-03 +/- 3.7E-04	
Sband delay (usec)	6.96471857521E+03		Apriori clock (usec)		-6.9577761E+00		Resid sbdelay (usec)		5.03169E-01 +/- 2.9E-03	
Phase delay (usec)	6.96421540157E+03		Apriori clockrate (us/s)		3.3261311E-07		Resid phdelay (usec)		-4.63473E-06 +/- 6.3E-07	
Delay rate (us/s)	-2.56525642009E-01		Apriori rate (us/s)		-2.56517778617E-01		Resid rate (us/s)		-7.86339E-06 +/- 4.5E-09	
Total phase (deg)	-2991.0		Apriori accel (us/s/s)		-3.65533589193E-05		Resid phase (deg)		-3023.7 +/- 19.5	
RMS	Theor.	Amplitude	0.239 +/- 0.041		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	61.5	46.8	Search (1024X32)	0.188	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000
amp/seg (%)	77.1	81.7	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		-0.016	0.016
ph/frq (deg)	23.8	27.6	Inc. seg. avg.	0.228	Sample rate(MSamp/s): 64		dr window (ns/s)		-0.012	0.012
amp/frq (%)	50.7	48.2	Inc. frq. avg.	0.223	Data rate(Mb/s): 1024		nlags: 128 t_cohere infinite		0.00	0.00
G: az 108.0 el 31.9 pa -48.5 l: az 89.5 el 11.5 pa -54.8 u,v (fr/asec) 1455.141 -31.673 simultaneous interpolator										
Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GI.zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GI.W.87.zqcxbk										



Fringe quality 0

SNR 5.8

Int time 239.989

Amp 0.194

Phase -5680.7

PFD 4.2e-01

Delays (us)

SBD 0.963776

MBD -0.015595

Fringe rate (Hz)

-0.162318

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.500

Exp. c171b

Exper # 16383

Yr:day 2017:090

Start 153000.00

Stop 153400.00

FRT 153200.00

Corr/FF/build

2017:208:133600

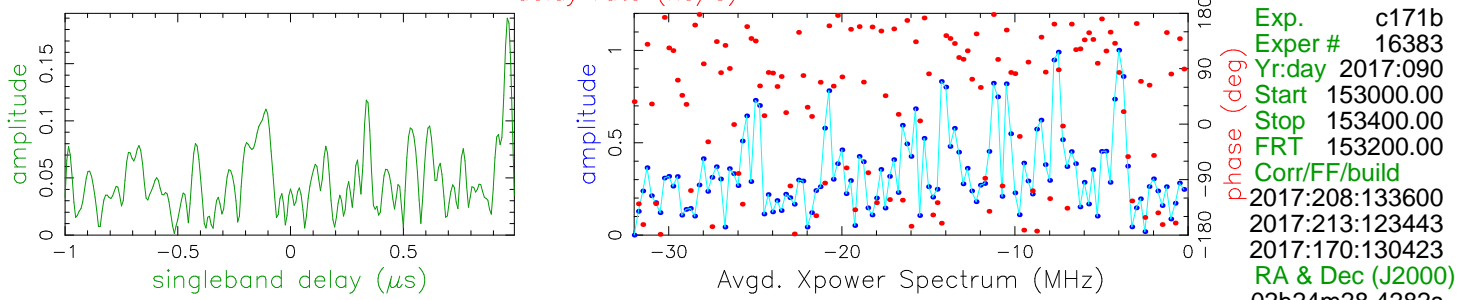
2017:213:123443

2017:170:130423

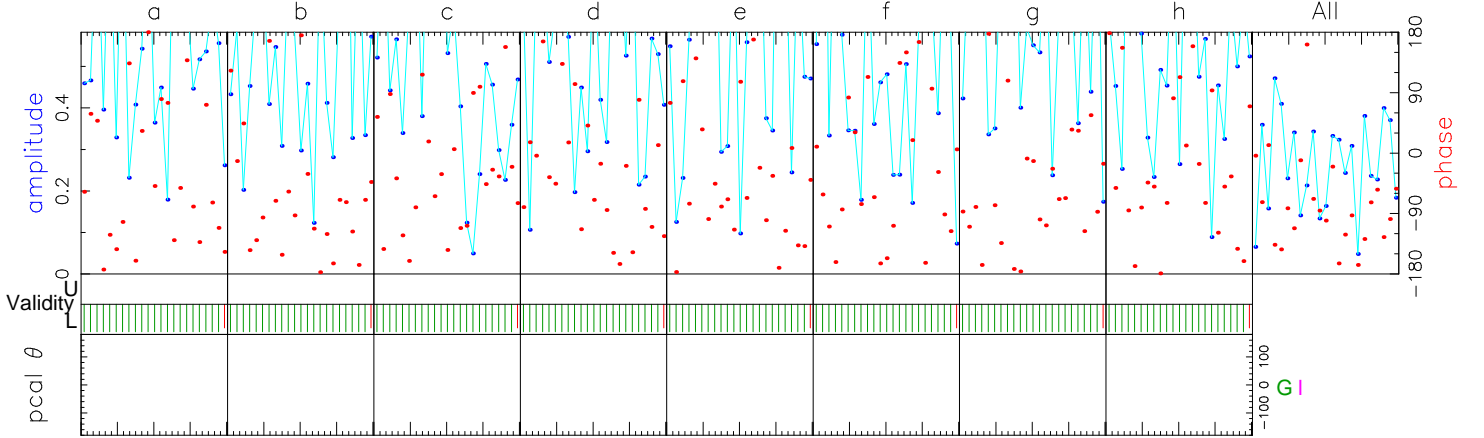
RA & Dec (J2000)

02h24m28.4282s

+6°59'23.342"



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-122.7	-103.5	-54.6	-85.9	-106.8	-130.1	-100.6	-106.7	Phase	-100.7
	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.1	Ampl.	0.2
	150.8	252.9	1.9	131.0	206.0	116.1	252.1	246.3	Sbd box	252.4
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
I	0	0	0	0	0	0	0	0	PC freqs	
G:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
I	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.96516856102E+03		Apriori delay (usec)		6.96421540621E+03		Resid mbdelay (usec)		-1.55952E-02	+/- 3.8E-04
Sband delay (usec)	6.96517918171E+03		Apriori clock (usec)		-6.9577761E+00		Resid sbdelay (usec)		9.63776E-01	+/- 3.0E-03
Phase delay (usec)	6.96421540296E+03		Apriori clockrate (us/s)		3.3261311E-07		Resid phdelay (usec)		-3.24696E-06	+/- 6.4E-07
Delay rate (us/s)	-2.56519662969E-01		Apriori rate (us/s)		-2.56517778617E-01		Resid rate (us/s)		-1.88435E-06	+/- 4.6E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.65533589193E-05		Resid phase (deg)		-5680.7	+/- 19.9

ph/seg (deg) 54.0 47.8 Theor. Amplitude 0.194 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

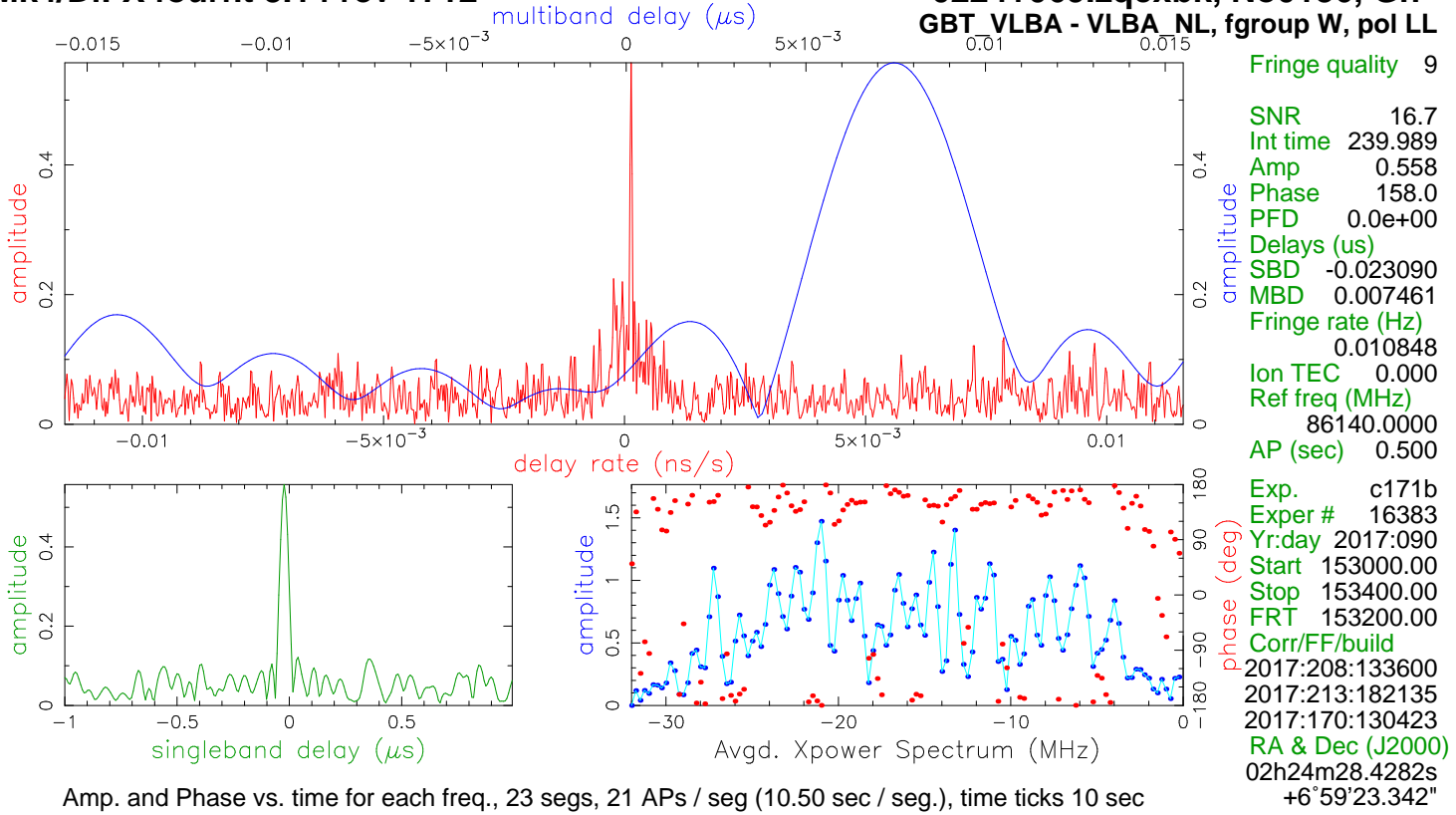
amp/seg (%) 69.9 83.4 Search (1024X32) 0.185 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 25.1 28.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 30.8 49.2 Inc. seg. avg. 0.199 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

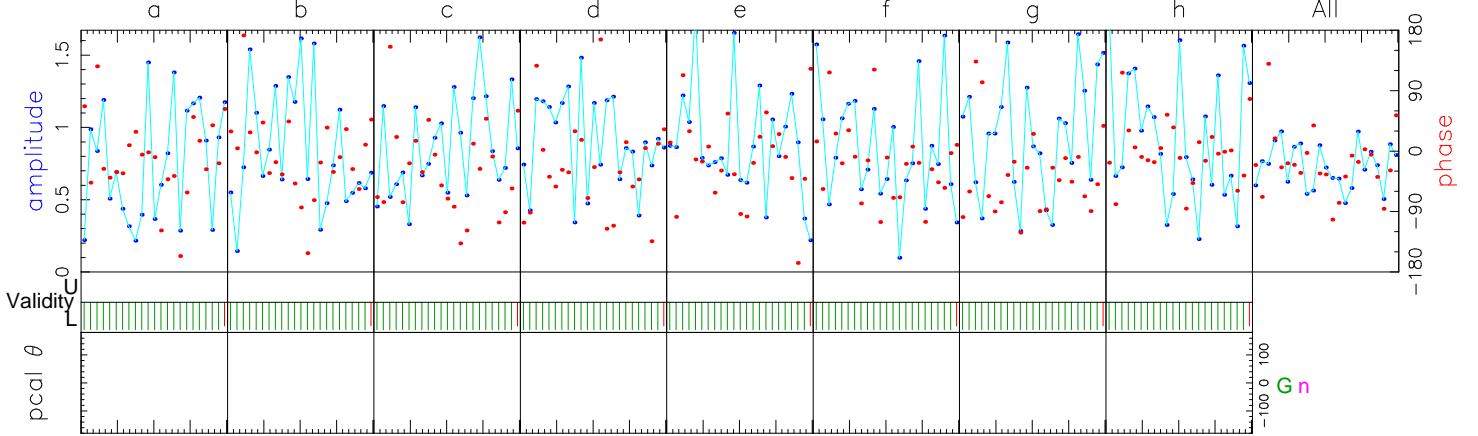
G: az 108.0 el 31.9 pa -48.5 I: az 89.5 el 11.5 pa -54.8 u,v (fr/asec) 1455.141 -31.673 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GI.zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GI.W.88.zqcxbk



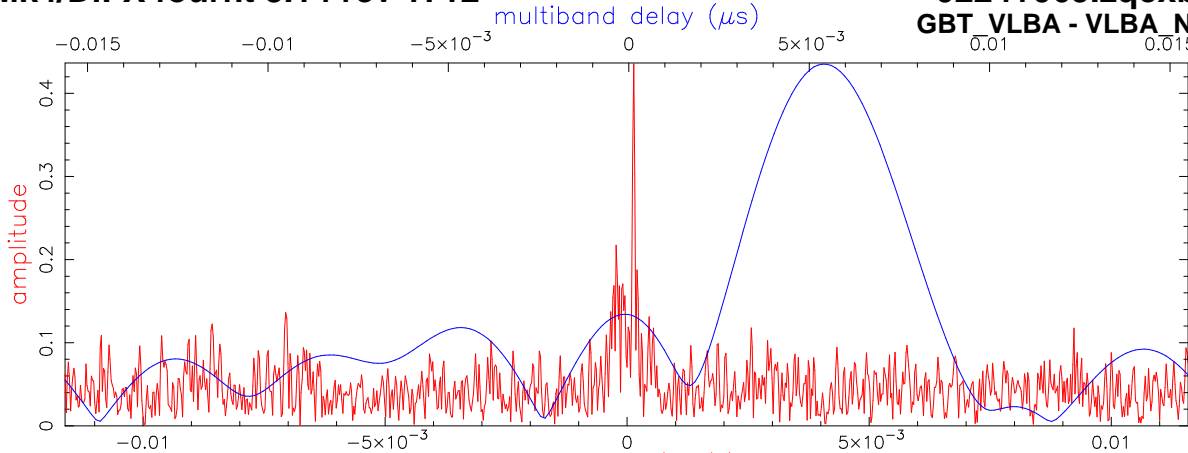
Fringe quality 9
SNR 16.7
Int time 239.989
Amp 0.558
Phase 158.0
PFD 0.0e+00
Delays (us)
SBD -0.023090
MBD 0.007461
Fringe rate (Hz) 0.010848
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500
Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 153000.00
Stop 153400.00
FRT 153200.00
Corr/FF/build
2017:208:133600
2017:213:182135
2017:170:130423
RA & Dec (J2000)
02h24m28.4282s
+6°59'23.342"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



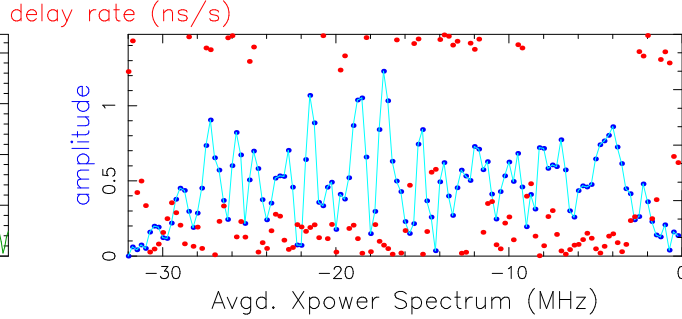
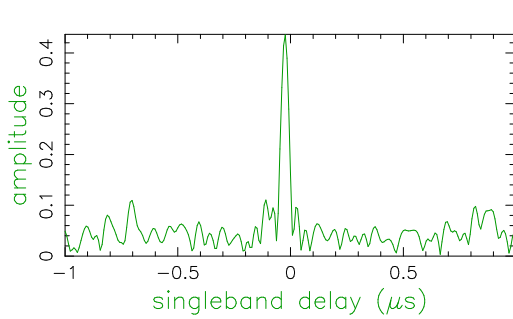
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-13.3	-16.0	-35.5	-33.7	-11.3	-18.8	-44.8	-5.2	Phase	-22.0
	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.7	Ampl.	0.6
	126.8	126.5	125.6	126.5	125.9	125.1	126.6	125.9	Sbd box	126.0
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
n	0	0	0	0	0	0	0	0	PC freqs	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
n	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		3.12091190202E+03		Apriori delay (usec)	3.12093569136E+03		Resid mbdelay (usec)	7.46067E-03		+/- 1.3E-04
Sband delay (usec)		3.12091260136E+03		Apriori clock (usec)	-1.6607410E+01		Resid sbdelay (usec)	-2.30900E-02		+/- 1.0E-03
Phase delay (usec)		3.12093569065E+03		Apriori clockrate (us/s)	-6.4946529E-08		Resid phdelay (usec)	-7.08265E-07		+/- 2.2E-07
Delay rate (us/s)		-7.13913943790E-02		Apriori rate (us/s)	-7.13915203121E-02		Resid rate (us/s)	1.25933E-07		+/- 1.6E-09
Total phase (deg)		321.3		Apriori accel (us/s/s)	-1.73008599797E-05		Resid phase (deg)	158.0		+/- 6.9

RMS Theor. Amplitude 0.558 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 47.4 16.5 Search (1024X32) 0.513 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 41.2 28.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 15.0 9.7 Inc. seg. avg. 0.705 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 15.3 16.9 Inc. frq. avg. 0.565 ion window (TEC) 0.00 0.00
 G: az 108.0 el 31.9 pa -48.5 n: az 100.9 el 22.4 pa -47.5 u,v (fr/asec) 400.631 -559.886 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/Gn..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/Gn.W.353.zqcxbk



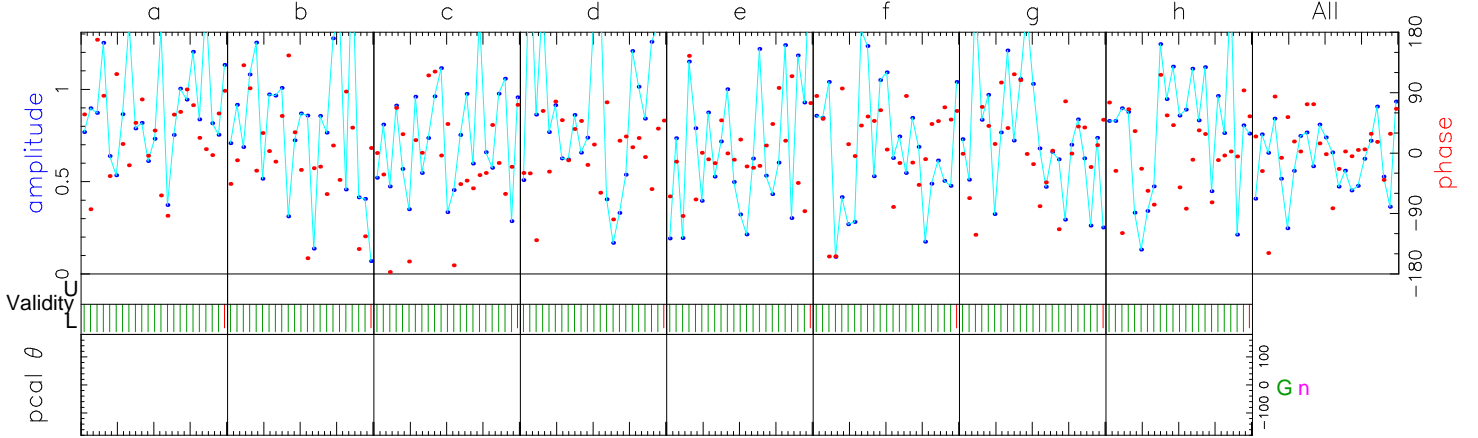
Fringe quality 9

SNR 13.1
 Int time 239.989
 Amp 0.437
 Phase 194.9
 PFD 6.1e-31
 Delays (us)
 SBD -0.024902
 MBD 0.005408
 Fringe rate (Hz)
 0.011002
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. c171b
 Exper # 16383
 Yr:day 2017:090
 Start 153000.00
 Stop 153400.00
 FRT 153200.00
 Corr/FF/build
 2017:208:133600
 2017:213:182138
 2017:170:130423
 RA & Dec (J2000)
 02h24m28.4282s
 +6°59'23.342"

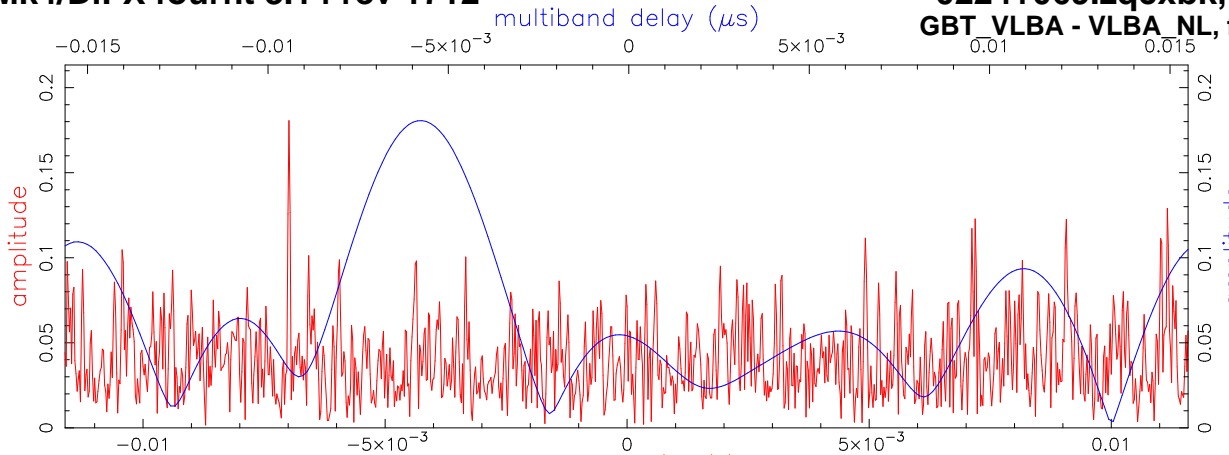
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



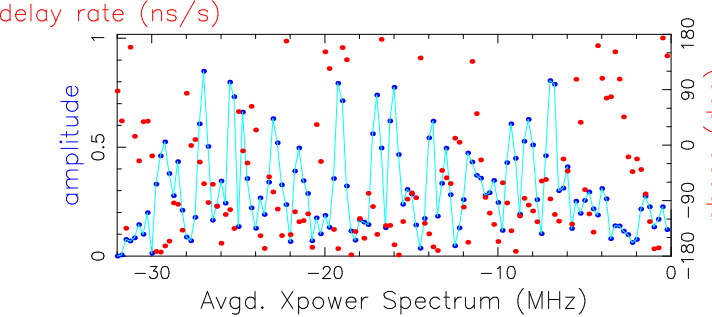
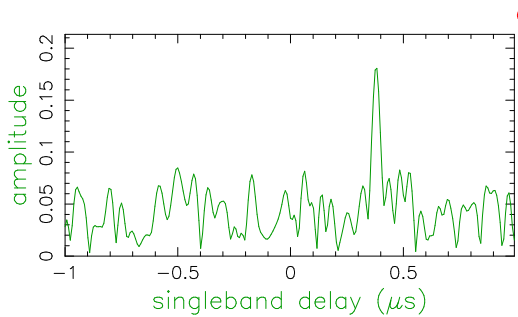
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	36.5	2.5	-2.9	8.3	2.2	38.7	17.0	14.2	Phase	14.9
	0.5	0.4	0.4	0.7	0.4	0.4	0.4	0.4	Ampl.	0.4
	125.7	125.6	126.0	126.2	125.7	125.6	125.5	125.8	Sbd box	125.8
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
n	0	0	0	0	0	0	0	0	PC freqs	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
n	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		3.12090984890E+03		Apriori delay (usec)	3.12093569136E+03		Resid mbdelay (usec)	5.40754E-03		+/- 1.7E-04
Sband delay (usec)		3.12091078936E+03		Apriori clock (usec)	-1.6607410E+01		Resid sbdelay (usec)	-2.49020E-02		+/- 1.3E-03
Phase delay (usec)		3.12093569184E+03		Apriori clockrate (us/s)	-6.4946529E-08		Resid phdelay (usec)	4.79093E-07		+/- 2.8E-07
Delay rate (us/s)		-7.13913925956E-02		Apriori rate (us/s)	-7.13915203121E-02		Resid rate (us/s)	1.27717E-07		+/- 2.0E-09
Total phase (deg)			358.2	Apriori accel (us/s/s)	-1.73008599797E-05		Resid phase (deg)	194.9		+/- 8.8

RMS Theor. Amplitude 0.437 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 51.1 21.0 Search (1024X32) 0.405 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 57.9 36.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 16.9 12.4 Inc. seg. avg. 0.582 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 20.0 21.6 Inc. frq. avg. 0.439 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 108.0 el 31.9 pa -48.5 n: az 100.9 el 22.4 pa -47.5 u,v (fr/asec) 400.631 -559.886 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/Gn..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/Gn.W.354.zqcxbk

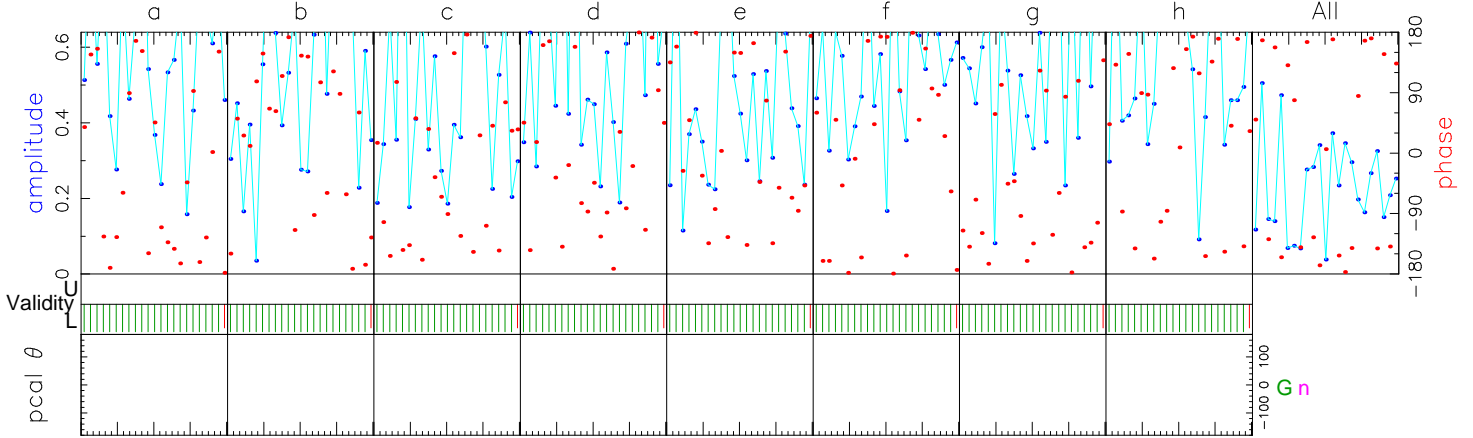


Fringe quality 0
 SNR 5.5
 Int time 239.989
 Amp 0.213
 Phase -2336.1
 PFD 9.2e-01
 Delays (us)
 SBD 0.379435
 MBD -0.005809
 Fringe rate (Hz)
 -0.601444
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. c171b
 Exper # 16383
 Yr:day 2017:090
 Start 153000.00
 Stop 153400.00
 FRT 153200.00
 Corr/FF/build
 2017:208:133600
 2017:213:182141
 2017:170:130423
 RA & Dec (J2000)
 02h24m28.4282s
 +6°59'23.342"

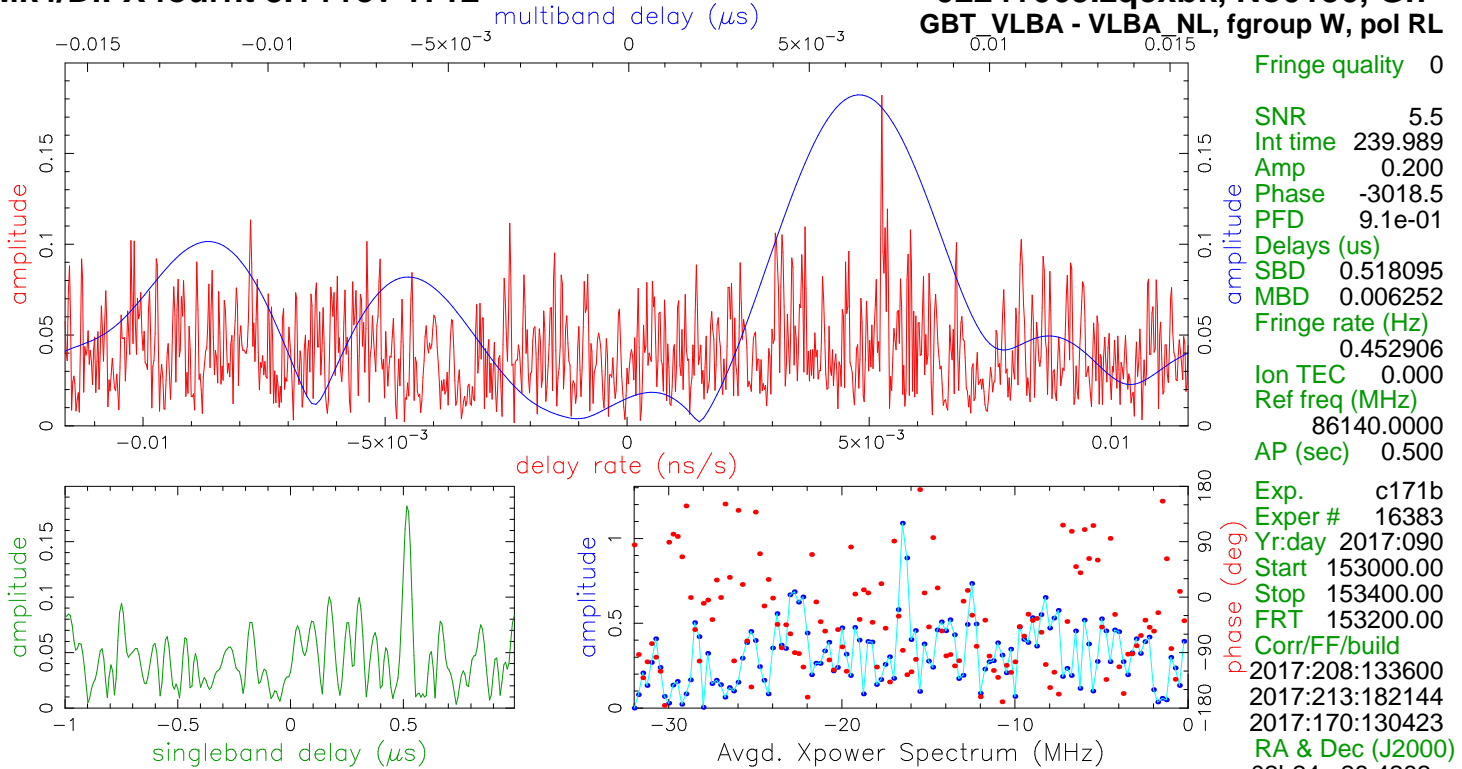
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-174.2	124.2	-149.5	-154.3	-158.2	145.2	-140.6	157.0	Phase	-176.1
	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.3	Ampl.	0.2
	60.2	34.3	207.8	64.9	142.8	208.6	178.4	52.9	Sbd box	177.6
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
n	0	0	0	0	0	0	0	0	PC freqs	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
n	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.12130488208E+03		Apriori delay (usec)		3.12093569136E+03		Resid mbdelay (usec)		-5.80928E-03	+/- 4.0E-04
Sband delay (usec)	3.12131512636E+03		Apriori clock (usec)		-1.6607410E+01		Resid sbdelay (usec)		3.79435E-01	+/- 3.1E-03
Phase delay (usec)	3.12093568568E+03		Apriori clockrate (us/s)		-6.4946529E-08		Resid phdelay (usec)		-5.67919E-06	+/- 6.7E-07
Delay rate (us/s)	-7.13985024807E-02		Apriori rate (us/s)		-7.13915203121E-02		Resid rate (us/s)		-6.98217E-06	+/- 4.9E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.73008599797E-05		Resid phase (deg)		-2336.1	+/- 20.9

RMS Theor. Amplitude 0.213 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 62.7 50.1 Search (1024X32) 0.178 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 73.2 87.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 37.8 29.6 Inc. seg. avg. 0.196 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 35.8 51.6 Inc. frq. avg. 0.217 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 108.0 el 31.9 pa -48.5 n: az 100.9 el 22.4 pa -47.5 u,v (fr/asec) 400.631 -559.886 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/Gn..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/Gn.W.355.zqcxbk



Fringe quality 0

SNR 5.5

Int time 239.989

Amp 0.200

Phase -3018.5

PFD 9.1e-01

Delays (us)

SBD 0.518095

MBD 0.006252

Fringe rate (Hz)

0.452906

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.500

Exp. c171b

Exper # 16383

Yr:day 2017:090

Start 153000.00

Stop 153400.00

FRT 153200.00

Corr/FF/build

2017:208:133600

2017:213:182144

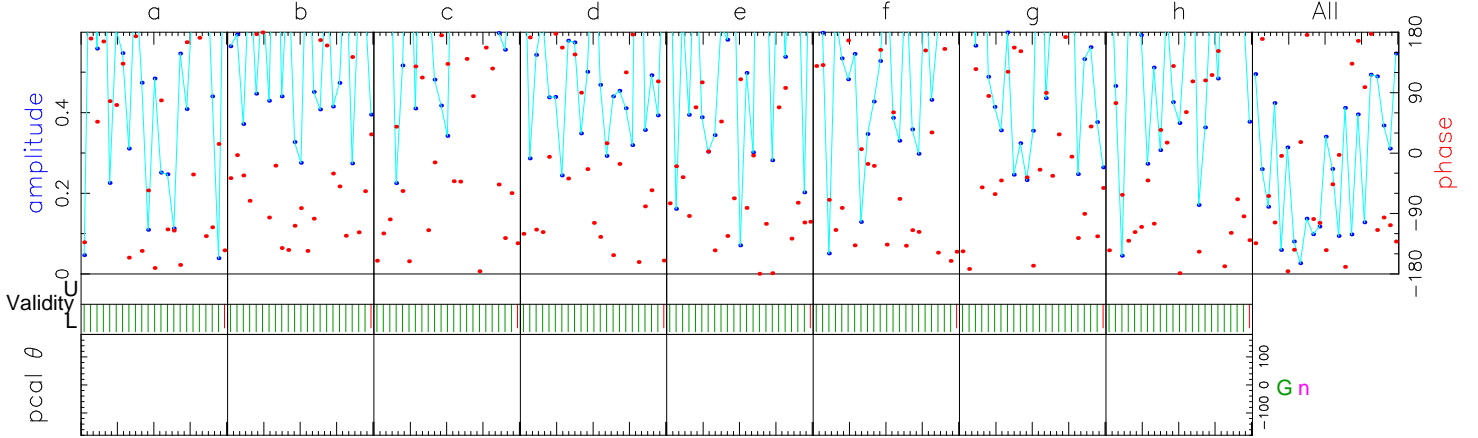
2017:170:130423

RA & Dec (J2000)

02h24m28.4282s

+6°59'23.342"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-175.5	-100.8	-156.4	-132.3	-94.7	-161.4	-80.6	-149.2	Phase	-138.5
	0.3	0.3	0.2	0.3	0.2	0.3	0.1	0.2	Ampl.	0.2
	150.5	19.3	33.9	197.6	214.7	33.0	70.7	51.9	Sbd box	195.3
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
n	0	0	0	0	0	0	0	0	PC freqs	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
n	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.12144194291E+03		Apriori delay (usec)		3.12093569136E+03		Resid mbdelay (usec)		6.25155E-03	+/- 4.0E-04
Sband delay (usec)	3.12145378686E+03		Apriori clock (usec)		-1.6607410E+01		Resid sbdelay (usec)		5.18095E-01	+/- 3.1E-03
Phase delay (usec)	3.12093568689E+03		Apriori clockrate (us/s)		-6.4946529E-08		Resid phdelay (usec)		-4.46553E-06	+/- 6.7E-07
Delay rate (us/s)	-7.13862625254E-02		Apriori rate (us/s)		-7.13915203121E-02		Resid rate (us/s)		5.25779E-06	+/- 4.9E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.73008599797E-05		Resid phase (deg)		-3018.5	+/- 20.9

RMS Theor. Amplitude 0.200 +/- 0.036

ph/seg (deg) 71.6 50.0 Search (1024X32) 0.177

amp/seg (%) 98.2 87.3 Interp. 0.000

ph/frq (deg) 38.9 29.5 Inc. seg. avg. 0.208

amp/frq (%) 38.7 51.5 Inc. frq. avg. 0.203

Group delay (usec)(sbd) 3.12144194291E+03 Apriori delay (usec) 3.12093569136E+03 Resid mbdelay (usec) 6.25155E-03 +/- 4.0E-04

Sband delay (usec) 3.12145378686E+03 Apriori clock (usec) -1.6607410E+01 Resid sbdelay (usec) 5.18095E-01 +/- 3.1E-03

Phase delay (usec) 3.12093568689E+03 Apriori clockrate (us/s) -6.4946529E-08 Resid phdelay (usec) -4.46553E-06 +/- 6.7E-07

Delay rate (us/s) -7.13862625254E-02 Apriori rate (us/s) -7.13915203121E-02 Resid rate (us/s) 5.25779E-06 +/- 4.9E-09

Total phase (deg) -2855.2 Apriori accel (us/s/s) -1.73008599797E-05 Resid phase (deg) -3018.5 +/- 20.9

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

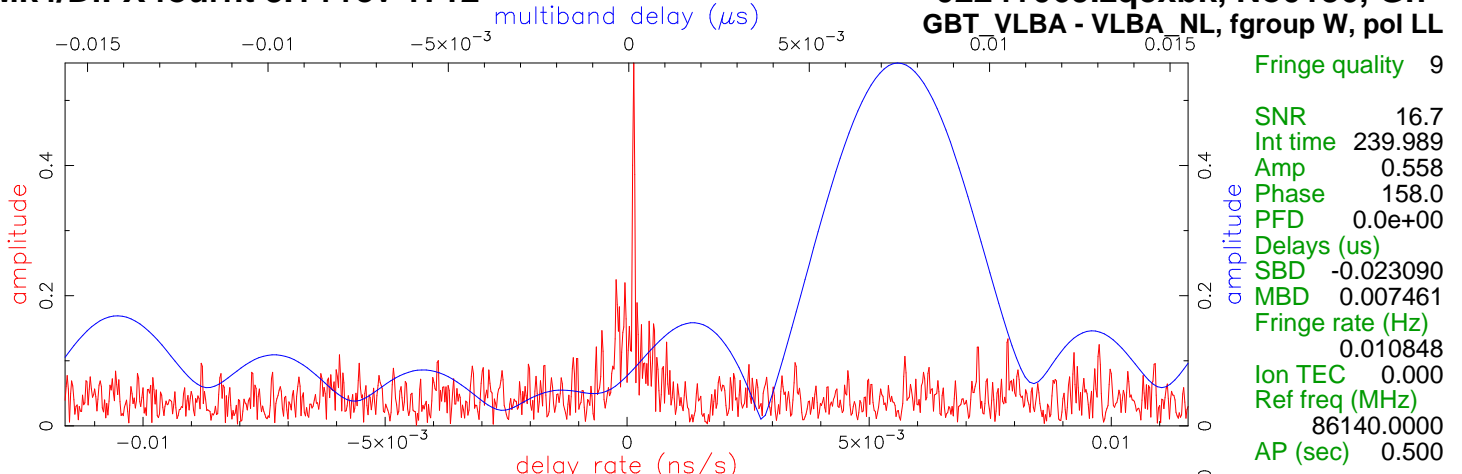
Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

Sample rate(MSamp/s): 64 dr window (ns/s) -0.012 0.012

Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 108.0 el 31.9 pa -48.5 n: az 100.9 el 22.4 pa -47.5 u,v (fr/asec) 400.631 -559.886 simultaneous interpolator

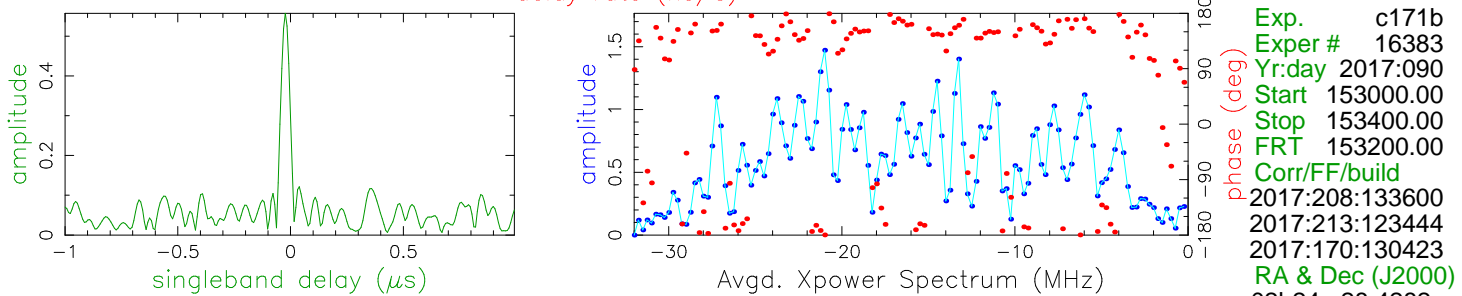
Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/Gn..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/Gn.W.356.zqcxbk



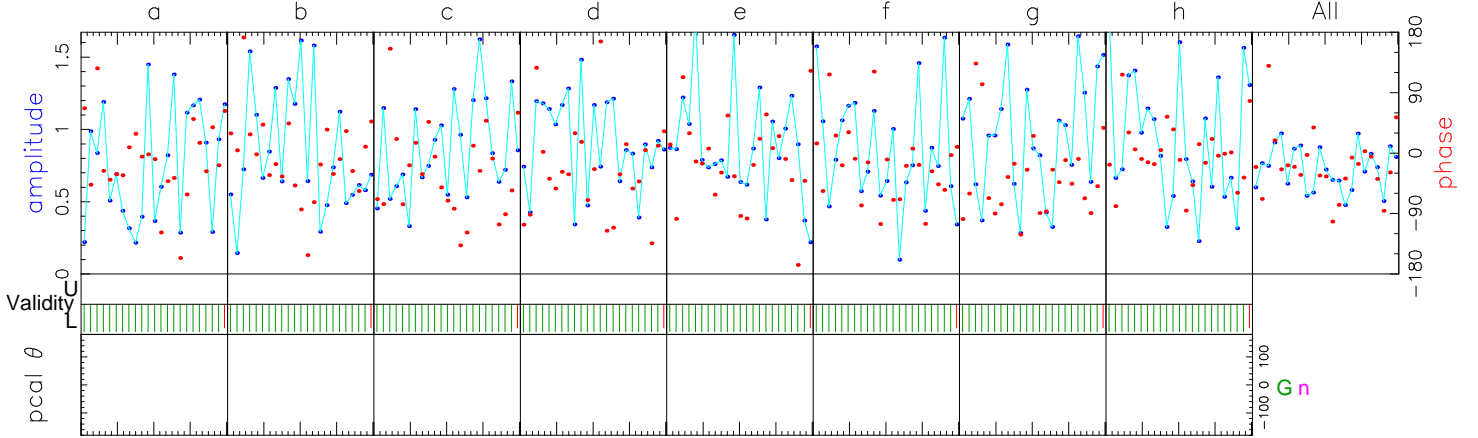
Fringe quality 9

SNR 16.7
 Int time 239.989
 Amp 0.558
 Phase 158.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.023090
 MBD 0.007461
 Fringe rate (Hz)
 0.010848
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500

Exp. c171b
 Exper # 16383
 Yr:day 2017:090
 Start 153000.00
 Stop 153400.00
 FRT 153200.00
 Corr/FF/build
 2017:208:133600
 2017:213:123444
 2017:170:130423
 RA & Dec (J2000)
 02h24m28.4282s
 +6°59'23.342"



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

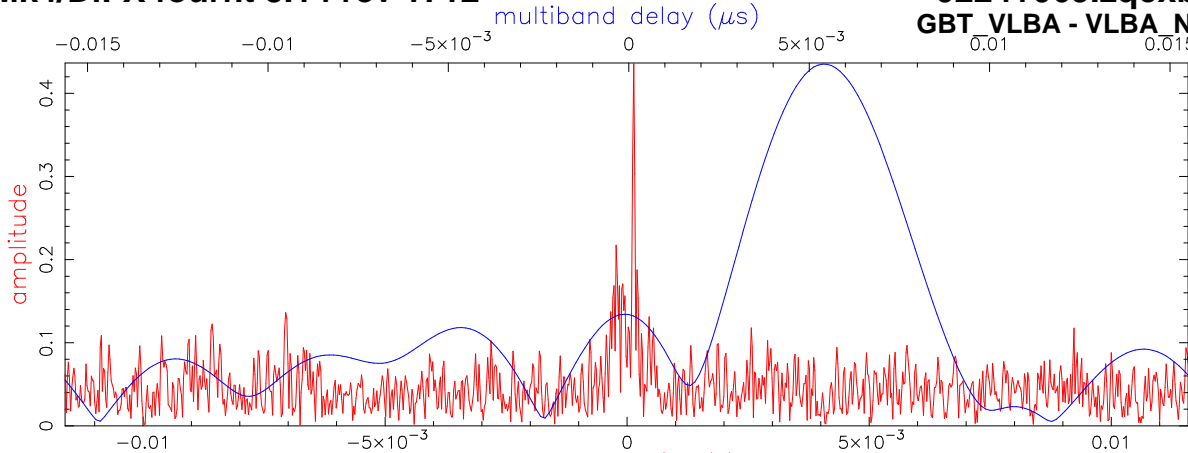


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-13.3	-16.0	-35.5	-33.7	-11.3	-18.8	-44.8	-5.2	Phase	-22.0
	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.7	Ampl.	0.6
	126.8	126.5	125.6	126.5	125.9	125.1	126.6	125.9	Sbd box	126.0
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
n	0	0	0	0	0	0	0	0	PC freqs	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
n	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	

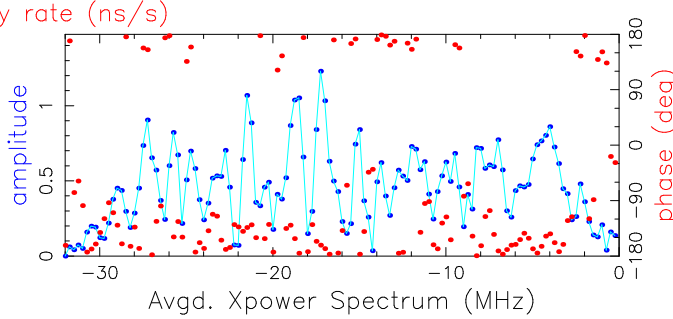
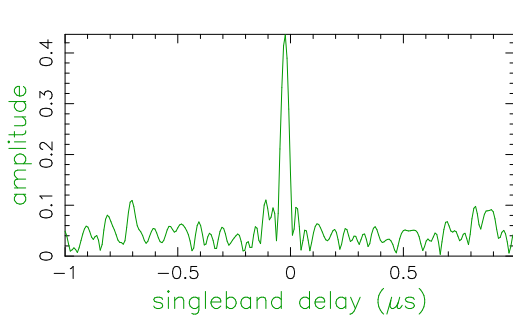
Group delay (usec)(sbd) 3.12091190202E+03 Apriori delay (usec) 3.12093569136E+03 Resid mbdelay (usec) 7.46067E-03 +/- 1.3E-04
 Sband delay (usec) 3.12091260136E+03 Apriori clock (usec) -1.6607410E+01 Resid sbdelay (usec) -2.30900E-02 +/- 1.0E-03
 Phase delay (usec) 3.12093569065E+03 Apriori clockrate (us/s) -6.4946529E-08 Resid phdelay (usec) -7.08265E-07 +/- 2.2E-07
 Delay rate (us/s) -7.13913943790E-02 Apriori rate (us/s) -7.13915203121E-02 Resid rate (us/s) 1.25933E-07 +/- 1.6E-09
 Total phase (deg) 321.3 Apriori accel (us/s/s) -1.73008599797E-05 Resid phase (deg) 158.0 +/- 6.9

RMS Theor. Amplitude 0.558 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 47.4 16.5 Search (1024X32) 0.513 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 41.2 28.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 15.0 9.7 Inc. seg. avg. 0.705 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 15.3 16.9 Inc. frq. avg. 0.565 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

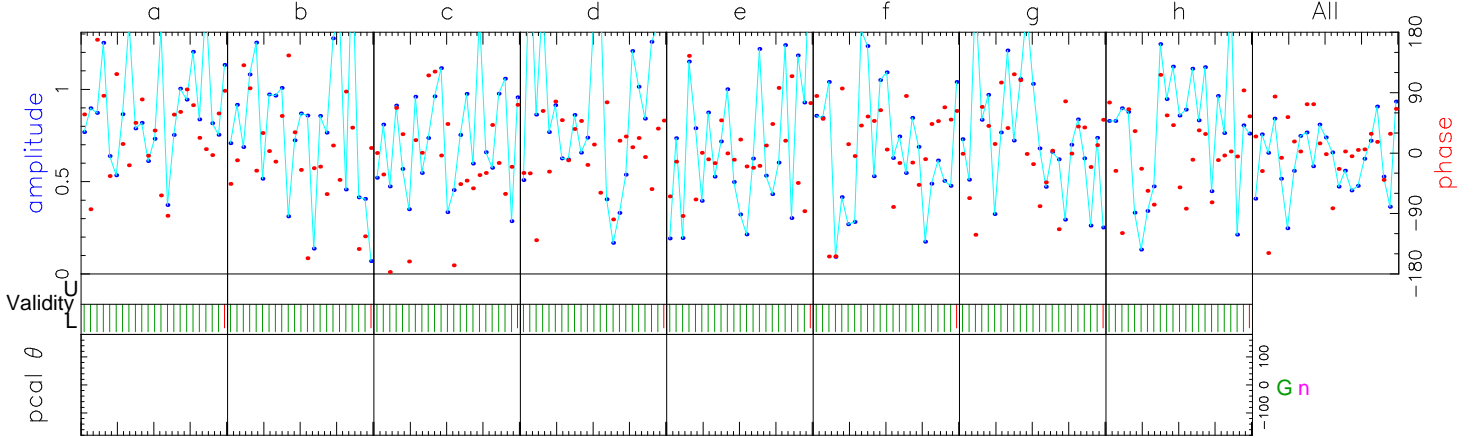
G: az 108.0 el 31.9 pa -48.5 n: az 100.9 el 22.4 pa -47.5 u,v (fr/asec) 400.631 -559.886 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/Gn..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/Gn.W.89.zqcxbk



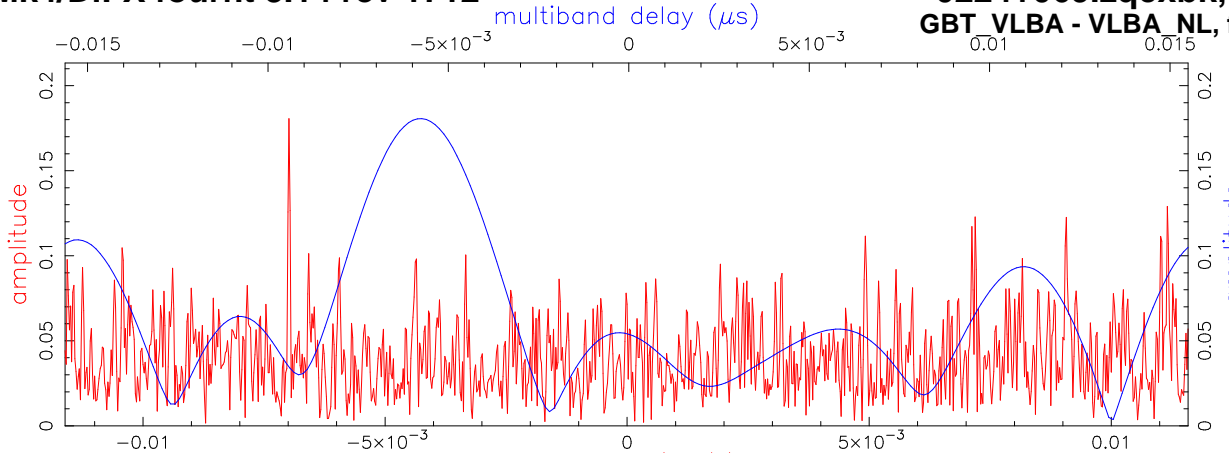
Fringe quality 9
SNR 13.1
Int time 239.989
Amp 0.437
Phase 194.9
PFD 6.1e-31
Delays (us)
SBD -0.024902
MBD 0.005408
Fringe rate (Hz) 0.011002
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500
Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 153000.00
Stop 153400.00
FRT 153200.00
Corr/FF/build
2017:208:133600
2017:213:123444
2017:170:130423
RA & Dec (J2000)
02h24m28.4282s
+6°59'23.342"



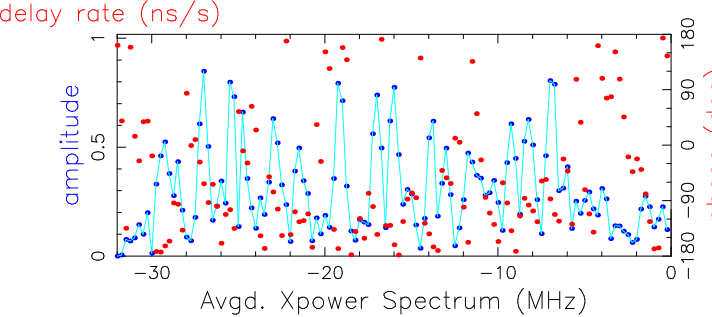
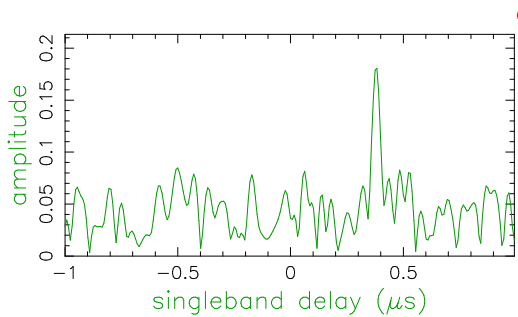
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
36.5	2.5	-2.9	8.3	2.2	38.7	17.0	14.2	Phase	14.9
0.5	0.4	0.4	0.7	0.4	0.4	0.4	0.4	Ampl.	0.4
125.7	125.6	126.0	126.2	125.7	125.6	125.5	125.8	Sbd box	125.8
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G 0	0	0	0	0	0	0	0	PC freqs	
n 0	0	0	0	0	0	0	0	PC freqs	
G:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n 1000	1000	1000	1000	1000	1000	1000	1000		
G W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
n W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	3.12090984890E+03	Apriori delay (usec)	3.12093569136E+03	Resid mbdelay (usec)	5.40754E-03	+/-	1.7E-04		
Sband delay (usec)	3.12091078936E+03	Apriori clock (usec)	-1.6607410E+01	Resid sbdelay (usec)	-2.49020E-02	+/-	1.3E-03		
Phase delay (usec)	3.12093569184E+03	Apriori clockrate (us/s)	-6.4946529E-08	Resid phdelay (usec)	4.79093E-07	+/-	2.8E-07		
Delay rate (us/s)	-7.13913925956E-02	Apriori rate (us/s)	-7.13915203121E-02	Resid rate (us/s)	1.27717E-07	+/-	2.0E-09		
Total phase (deg)	358.2	Apriori accel (us/s/s)	-1.73008599797E-05	Resid phase (deg)	194.9	+/-	8.8		
RMS	Theor.	Amplitude	0.437 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
ph/seg (deg)	51.1	Search (1024X32)	0.405	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
amp/seg (%)	57.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	16.9	Inc. seg. avg.	0.582	Sample rate(MSamp/s):	64	ion window (ns/s)	-0.012	0.012	
amp/frq (%)	20.0	Inc. frq. avg.	0.439	Data rate(Mb/s):	1024	nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00
G: az 108.0 el 31.9 pa -48.5	n: az 100.9 el 22.4 pa -47.5	u,v (fr/asec)	400.631 -559.886	simultaneous interpolator					

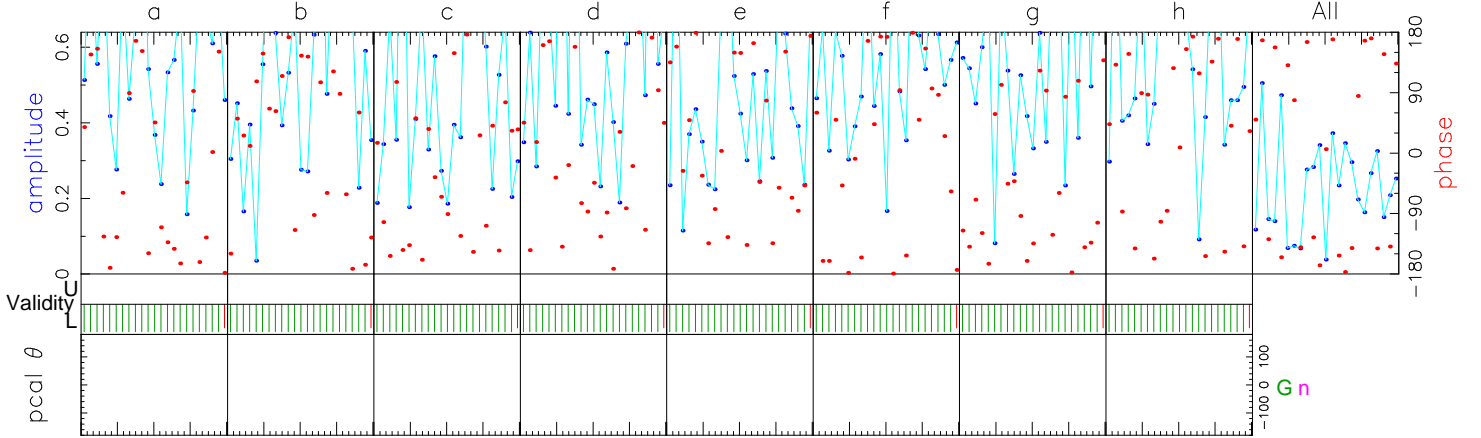


Fringe quality 0
 SNR 5.5
 Int time 239.989
 Amp 0.213
 Phase -2336.1
 PFD 9.2e-01
 Delays (us)
 SBD 0.379435
 MBD -0.005809
 Fringe rate (Hz)
 -0.601444
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. c171b
 Exper # 16383
 Yr:day 2017:090
 Start 153000.00
 Stop 153400.00
 FRT 153200.00
 Corr/FF/build
 2017:208:133600
 2017:213:123446
 2017:170:130423
 RA & Dec (J2000)
 02h24m28.4282s
 +6°59'23.342"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

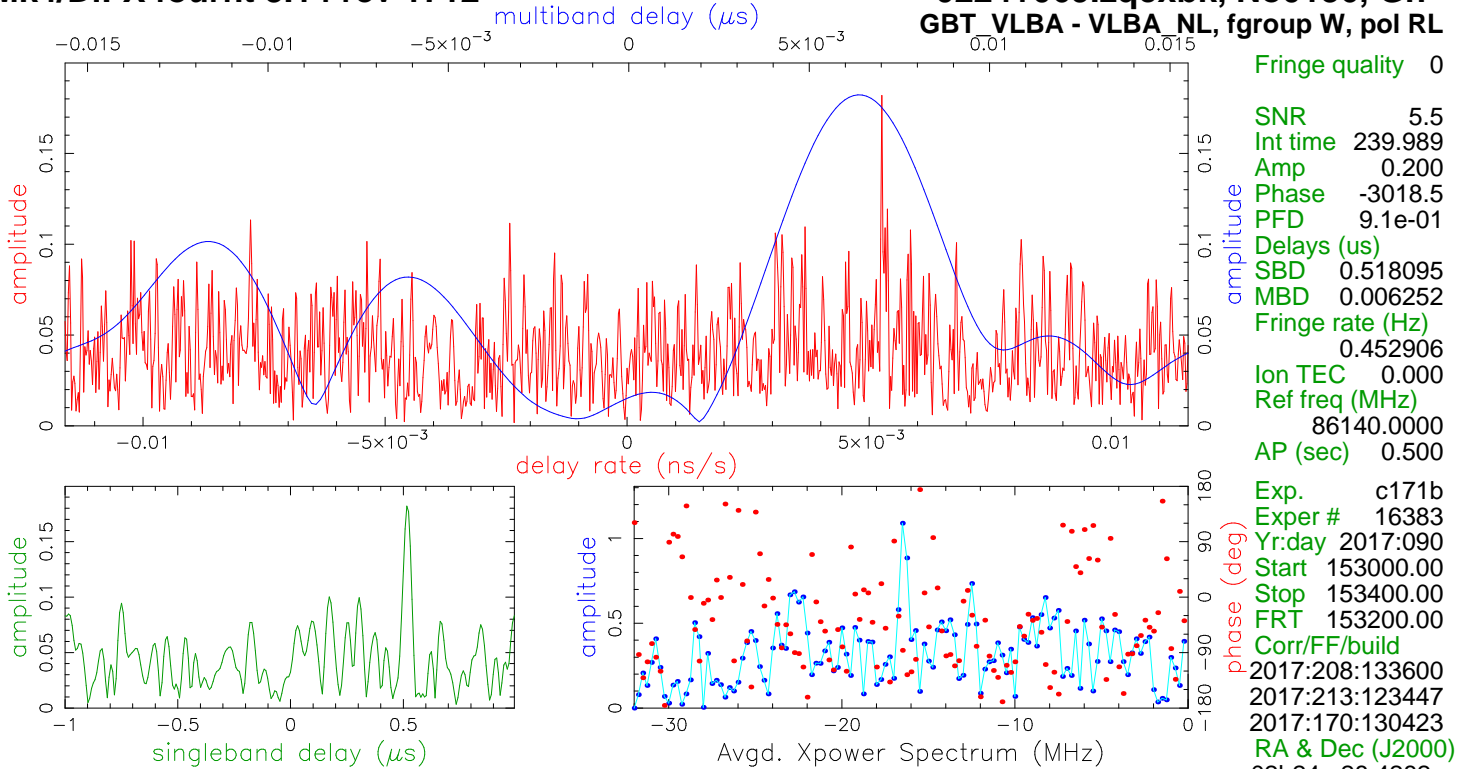


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-174.2	124.2	-149.5	-154.3	-158.2	145.2	-140.6	157.0	Phase	-176.1
	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.3	Ampl.	0.2
	60.2	34.3	207.8	64.9	142.8	208.6	178.4	52.9	Sbd box	177.6
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
n	0	0	0	0	0	0	0	0	PC freqs	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
n	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	

Group delay (usec)(sbd) 3.12130488208E+03 Apriori delay (usec) 3.12093569136E+03 Resid mbdelay (usec) -5.80928E-03 +/- 4.0E-04
 Sband delay (usec) 3.12131512636E+03 Apriori clock (usec) -1.6607410E+01 Resid sbdelay (usec) 3.79435E-01 +/- 3.1E-03
 Phase delay (usec) 3.12093568568E+03 Apriori clockrate (us/s) -6.4946529E-08 Resid phdelay (usec) -5.67919E-06 +/- 6.7E-07
 Delay rate (us/s) -7.13985024807E-02 Apriori rate (us/s) -7.13915203121E-02 Resid rate (us/s) -6.98217E-06 +/- 4.9E-09
 Total phase (deg) -2172.8 Apriori accel (us/s/s) -1.73008599797E-05 Resid phase (deg) -2336.1 +/- 20.9

RMS Theor. Amplitude 0.213 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 62.7 50.1 Search (1024X32) 0.178 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 73.2 87.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 37.8 29.6 Inc. seg. avg. 0.196 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 35.8 51.6 Inc. frq. avg. 0.217 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 108.0 el 31.9 pa -48.5 n: az 100.9 el 22.4 pa -47.5 u,v (fr/asec) 400.631 -559.886 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/Gn..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/Gn.W.91.zqcxbk



Fringe quality 0

SNR 5.5

Int time 239.989

Amp 0.200

Phase -3018.5

PFD 9.1e-01

Delays (us)

SBD 0.518095

MBD 0.006252

Fringe rate (Hz)

0.452906

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.500

Exp. c171b

Exper # 16383

Yr:day 2017:090

Start 153000.00

Stop 153400.00

FRT 153200.00

Corr/FF/build

2017:208:133600

2017:213:123447

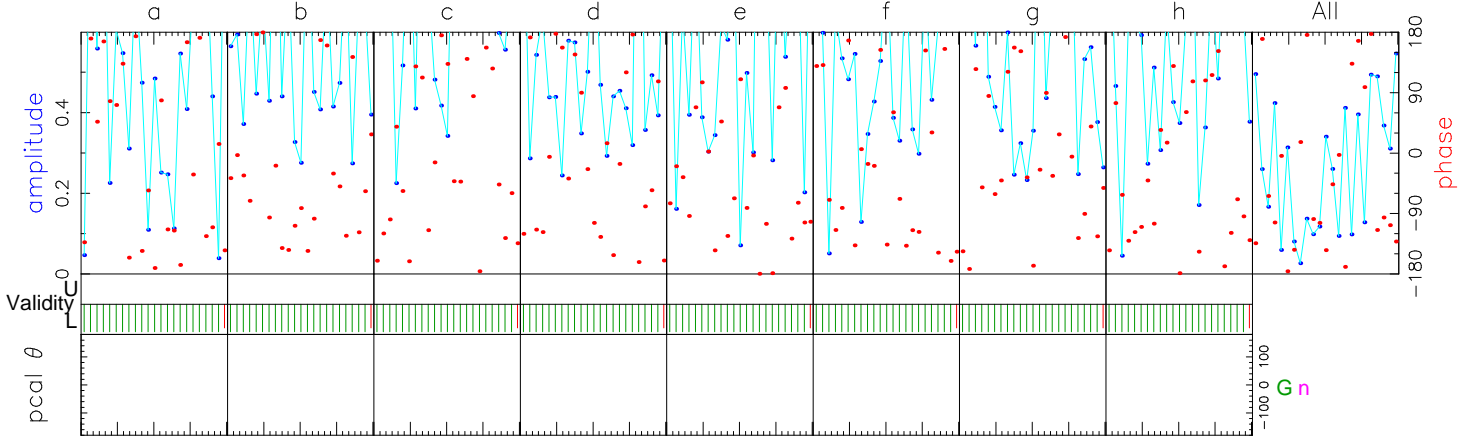
2017:170:130423

RA & Dec (J2000)

02h24m28.4282s

+6°59'23.342"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-175.5	-100.8	-156.4	-132.3	-94.7	-161.4	-80.6	-149.2	Phase	-138.5
0.3	0.3	0.2	0.3	0.2	0.3	0.1	0.2	Ampl.	0.2
150.5	19.3	33.9	197.6	214.7	33.0	70.7	51.9	Sbd box	195.3
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G 0	0	0	0	0	0	0	0	PC freqs	
n 0	0	0	0	0	0	0	0	PC freqs	
G:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n 1000	1000	1000	1000	1000	1000	1000	1000		
G W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
n W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	3.12144194291E+03	Apriori delay (usec)	3.12093569136E+03	Resid mbdelay (usec)	6.25155E-03	+/-	4.0E-04		
Sband delay (usec)	3.12145378686E+03	Apriori clock (usec)	-1.6607410E+01	Resid sbdelay (usec)	5.18095E-01	+/-	3.1E-03		
Phase delay (usec)	3.12093568689E+03	Apriori clockrate (us/s)	-6.4946529E-08	Resid phdelay (usec)	-4.46553E-06	+/-	6.7E-07		
Delay rate (us/s)	-7.13862625254E-02	Apriori rate (us/s)	-7.13915203121E-02	Resid rate (us/s)	5.25779E-06	+/-	4.9E-09		
Total phase (deg)	-2855.2	Apriori accel (us/s/s)	-1.73008599797E-05	Resid phase (deg)	-3018.5	+/-	20.9		

ph/seg (deg) 71.6 50.0 Amplitude 0.200 +/- 0.036 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

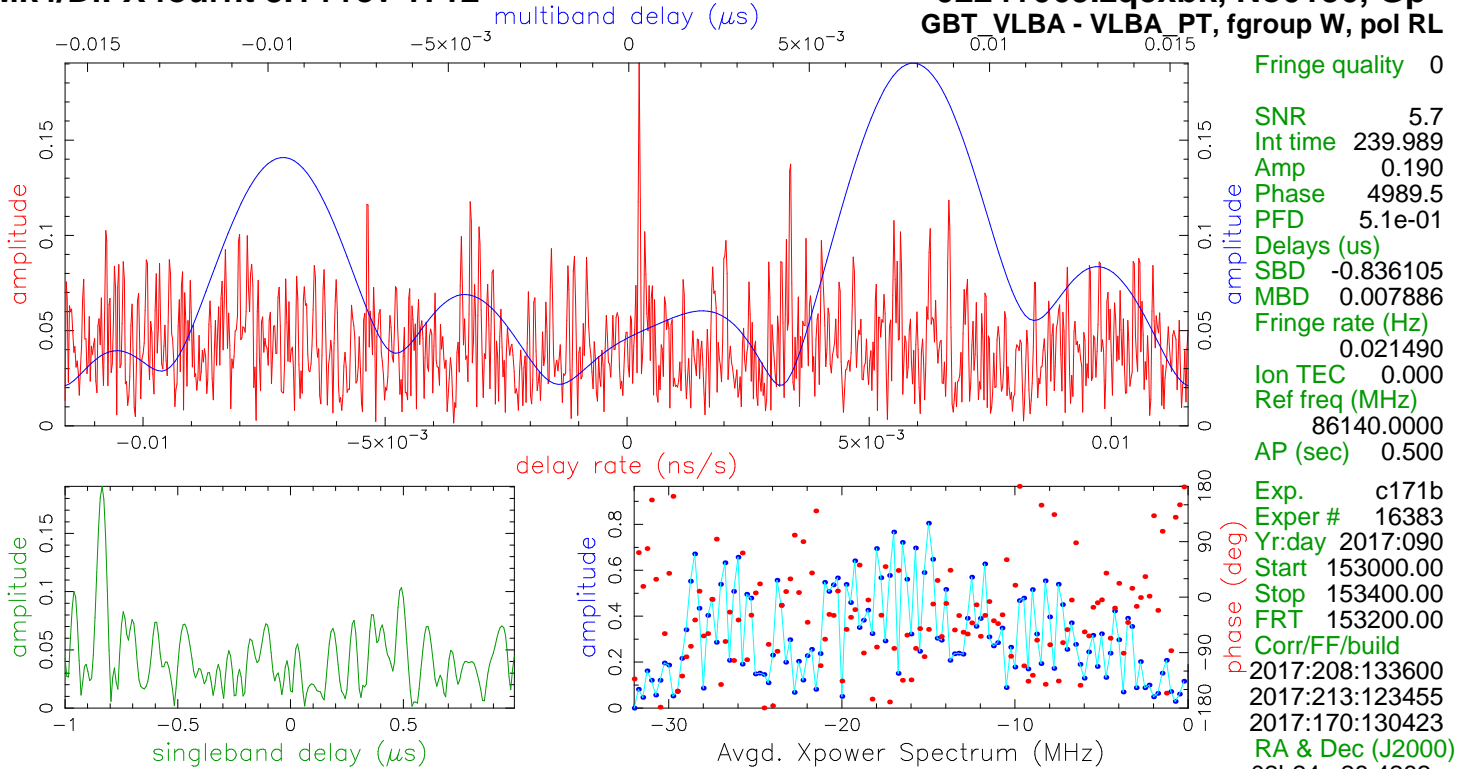
amp/seg (%) 98.2 87.3 Search (1024X32) 0.177 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 38.9 29.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 38.7 51.5 Inc. seg. avg. 0.208 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

G: az 108.0 el 31.9 pa -48.5 n: az 100.9 el 22.4 pa -47.5 u,v (fr/asec) 400.631 -559.886 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/Gn..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/Gn.W.92.zqcxbk



Fringe quality 0

SNR 5.7

Int time 239.989

Amp 0.190

Phase 4989.5

PFD 5.1e-01

Delays (μs)

SBD -0.836105

MBD 0.007886

Fringe rate (Hz) 0.021490

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.500

Exp. c171b

Exper # 16383

Yr:day 2017:090

Start 153000.00

Stop 153400.00

FRT 153200.00

Corr/FF/build

2017:208:133600

2017:213:123455

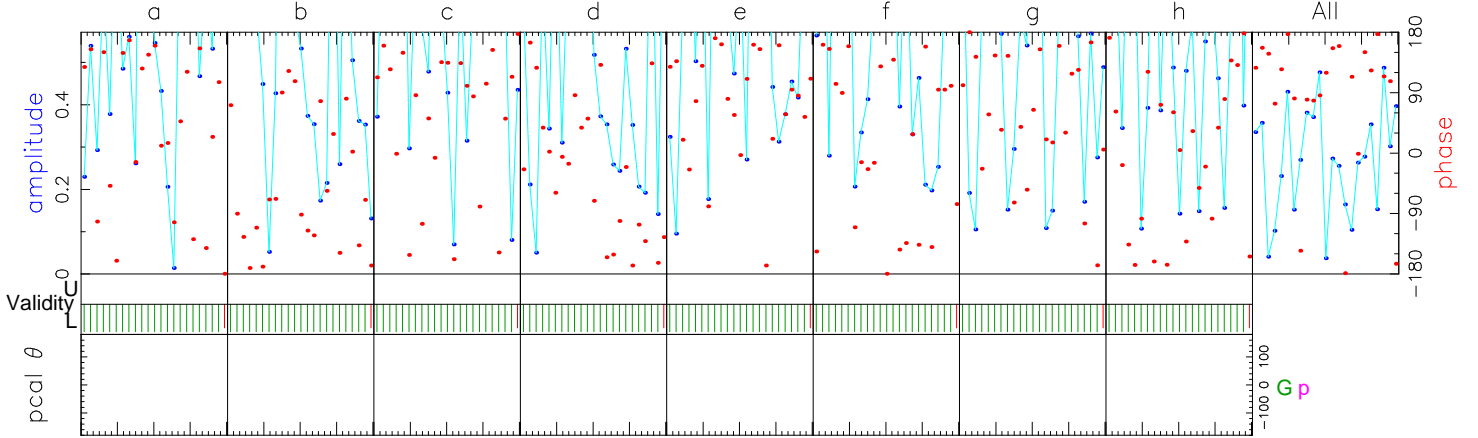
2017:170:130423

RA & Dec (J2000)

02h24m28.4282s

+6°59'23.342"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
147.7	127.6	126.4	13.8	115.0	147.8	92.6	169.2	Phase	129.5
0.3	0.1	0.3	0.1	0.3	0.3	0.2	0.2	Ampl.	0.2
22.8	218.6	207.4	174.8	251.9	203.2	92.2	8.3	Sbd box	22.0
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G 0	0	0	0	0	0	0	0	PC freqs	
p 0	0	0	0	0	0	0	0	PC freqs	
G:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000		
G W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
p W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	7.52407309382E+03	Apriori delay (usec)	7.52490895808E+03	Resid mbdelay (usec)	7.88574E-03	+/-	3.8E-04		
Sband delay (usec)	7.52407285358E+03	Apriori clock (usec)	-1.3618750E+01	Resid sbdelay (usec)	-8.36105E-01	+/-	3.0E-03		
Phase delay (usec)	7.52490896225E+03	Apriori clockrate (us/s)	-3.4534658E-08	Resid phdelay (usec)	4.17463E-06	+/-	6.5E-07		
Delay rate (us/s)	-2.85234440352E-01	Apriori rate (us/s)	-2.85234689828E-01	Resid rate (us/s)	2.49476E-07	+/-	4.7E-09		
Total phase (deg)	4863.1	Apriori accel (us/s/s)	-3.92767814758E-05	Resid phase (deg)	4989.5	+/-	20.1		

ph/seg (deg) 47.7 48.2 Search (1024X32) 0.189 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

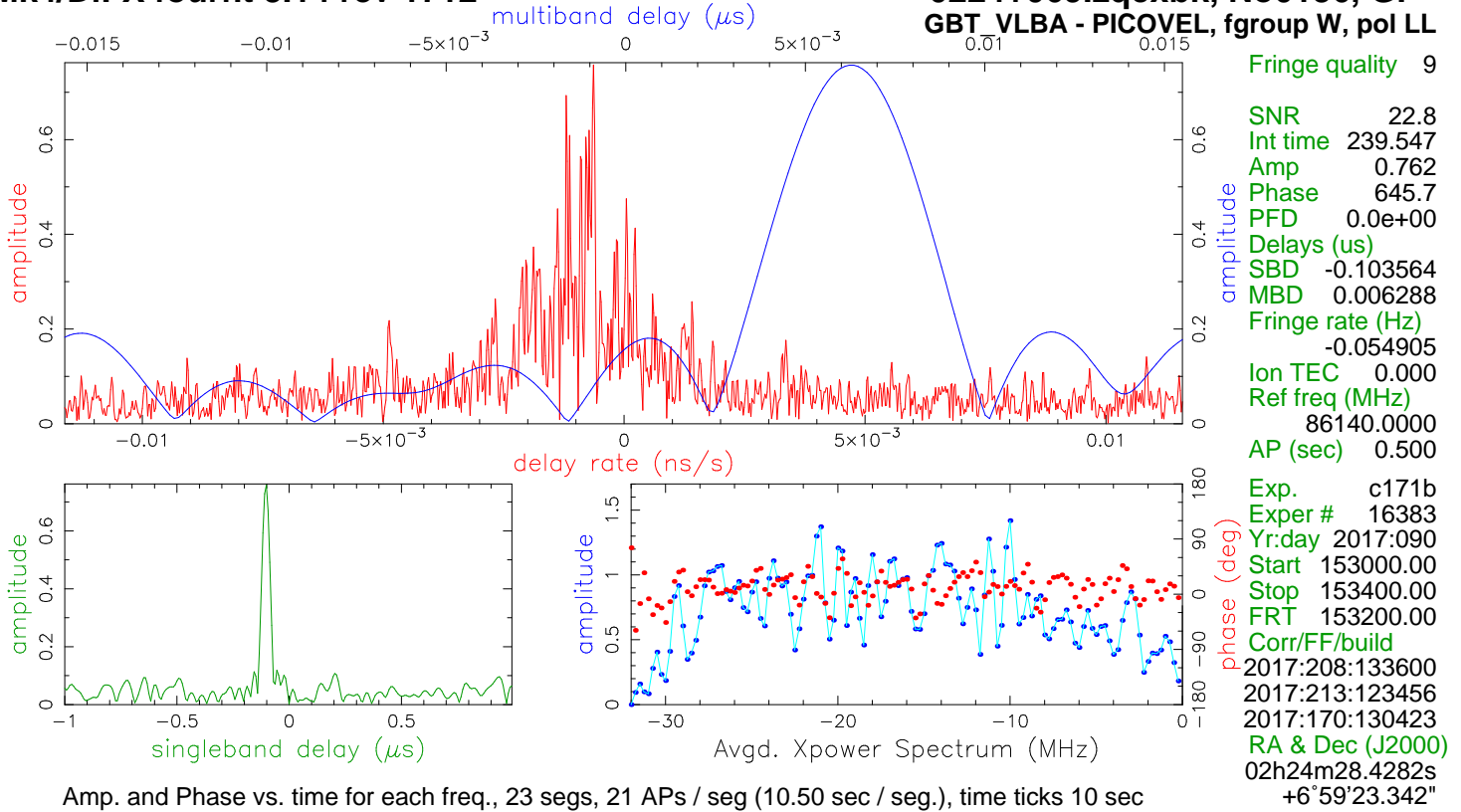
amp/seg (%) 79.0 84.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 53.6 28.4 Inc. seg. avg. 0.199 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

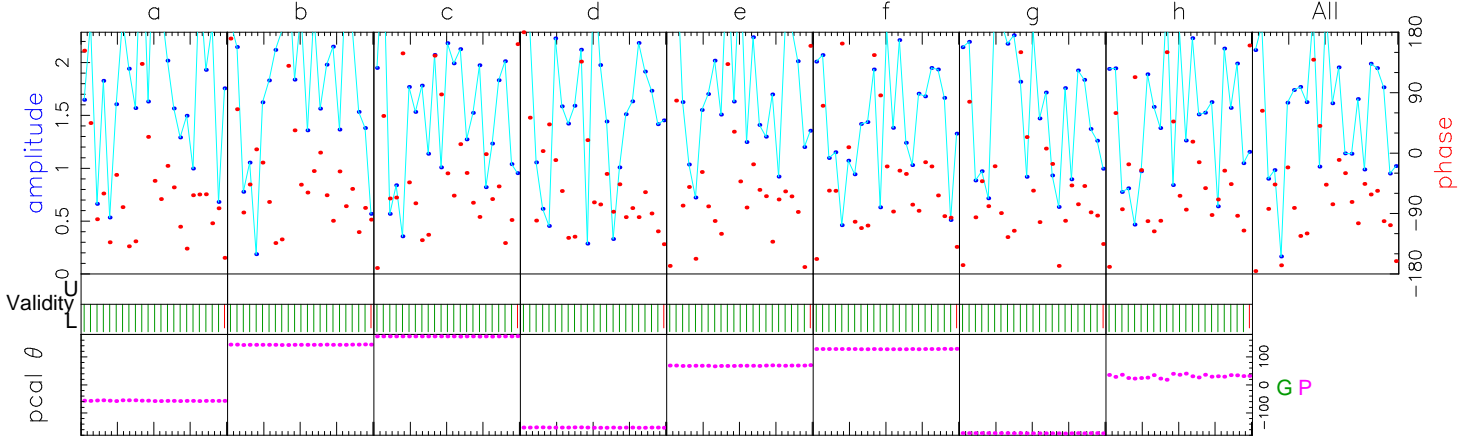
amp/frq (%) 50.3 49.6 Inc. frq. avg. 0.204 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

G: az 108.0 el 31.9 pa -48.5 p: az 88.2 el 9.9 pa -56.3 u,v (fr/asec) 1618.812 126.640 simultaneous interpolator

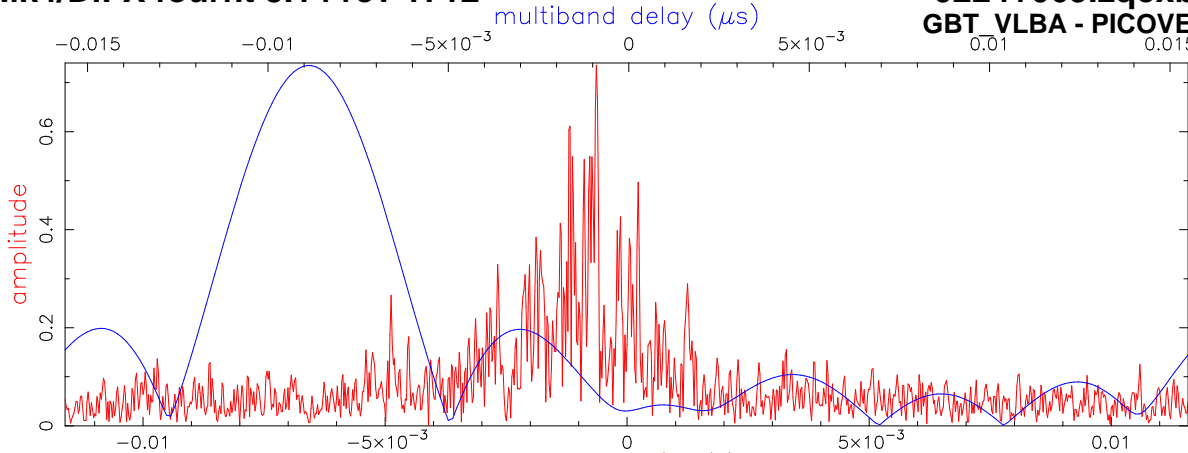
Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/Gp..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/Gp.W.100.zqcxbk



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



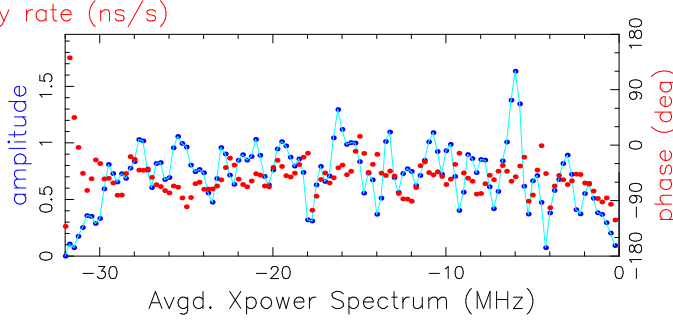
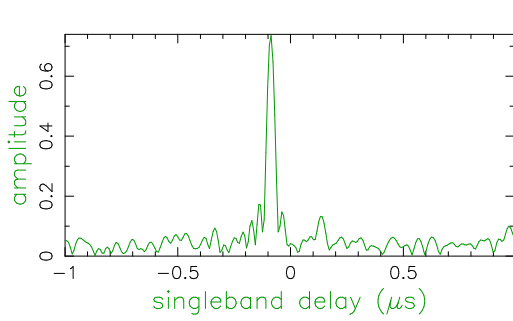
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	86412.00	86444.00	86476.00	86508.00	86540.00	86572.00	86604.00	86636.00	86668.00	86700.00	86732.00	86764.00	86796.00	86828.00	86860.00	86892.00	86924.00	86956.00	86988.00	87020.00	87052.00	87084.00	87116.00	87148.00	87180.00	87212.00	87244.00	87276.00	87308.00	87340.00	87372.00	87404.00	87436.00	87468.00	87500.00	87532.00	87564.00	87596.00	87628.00	87660.00	87692.00	87724.00	87756.00	87788.00	87820.00	87852.00	87884.00	87916.00	87948.00	87980.00	87992.00	88004.00	88016.00	88028.00	88040.00	88052.00	88064.00	88076.00	88088.00	88100.00	88112.00	88124.00	88136.00	88148.00	88160.00	88172.00	88184.00	88196.00	88208.00	88220.00	88232.00	88244.00	88256.00	88268.00	88280.00	88292.00	88304.00	88316.00	88328.00	88340.00	88352.00	88364.00	88376.00	88388.00	88400.00	88412.00	88424.00	88436.00	88448.00	88460.00	88472.00	88484.00	88496.00	88508.00	88520.00	88532.00	88544.00	88556.00	88568.00	88580.00	88592.00	88604.00	88616.00	88628.00	88640.00	88652.00	88664.00	88676.00	88688.00	88700.00	88712.00	88724.00	88736.00	88748.00	88760.00	88772.00	88784.00	88796.00	88808.00	88820.00	88832.00	88844.00	88856.00	88868.00	88880.00	88892.00	88904.00	88916.00	88928.00	88940.00	88952.00	88964.00	88976.00	88988.00	89000.00	89012.00	89024.00	89036.00	89048.00	89060.00	89072.00	89084.00	89096.00	89108.00	89120.00	89132.00	89144.00	89156.00	89168.00	89180.00	89192.00	89204.00	89216.00	89228.00	89240.00	89252.00	89264.00	89276.00	89288.00	89300.00	89312.00	89324.00	89336.00	89348.00	89360.00	89372.00	89384.00	89396.00	89408.00	89420.00	89432.00	89444.00	89456.00	89468.00	89480.00	89492.00	89504.00	89516.00	89528.00	89540.00	89552.00	89564.00	89576.00	89588.00	89600.00	89612.00	89624.00	89636.00	89648.00	89660.00	89672.00	89684.00	89696.00	89708.00	89720.00	89732.00	89744.00	89756.00	89768.00	89780.00	89792.00	89804.00	89816.00	89828.00	89840.00	89852.00	89864.00	89876.00	89888.00	89900.00	89912.00	89924.00	89936.00	89948.00	89960.00	89972.00	89984.00	89996.00	90008.00	90020.00	90032.00	90044.00	90056.00	90068.00	90080.00	90092.00	90104.00	90116.00	90128.00	90140.00	90152.00	90164.00	90176.00	90188.00	90200.00	90212.00	90224.00	90236.00	90248.00	90260.00	90272.00	90284.00	90296.00	90308.00	90320.00	90332.00	90344.00	90356.00	90368.00	90380.00	90392.00	90404.00	90416.00	90428.00	90440.00	90452.00	90464.00	90476.00	90488.00	90500.00	90512.00	90524.00	90536.00	90548.00	90560.00	90572.00	90584.00	90596.00	90608.00	90620.00	90632.00	90644.00	90656.00	90668.00	90680.00	90692.00	90704.00	90716.00	90728.00	90740.00	90752.00	90764.00	90776.00	90788.00	90800.00	90812.00	90824.00	90836.00	90848.00	90860.00	90872.00	90884.00	90896.00	90908.00	90920.00	90932.00	90944.00	90956.00	90968.00	90980.00	90992.00	91004.00	91016.00	91028.00	91040.00	91052.00	91064.00	91076.00	91088.00	91100.00	91112.00	91124.00	91136.00	91148.00	91160.00	91172.00	91184.00	91196.00	91208.00	91220.00	91232.00	91244.00	91256.00	91268.00	91280.00	91292.00	91304.00	91316.00	91328.00	91340.00	91352.00	91364.00	91376.00	91388.00	91400.00	91412.00	91424.00	91436.00	91448.00	91460.00	91472.00	91484.00	91496.00	91508.00	91520.00	91532.00	91544.00	91556.00	91568.00	91580.00	91592.00	91604.00	91616.00	91628.00	91640.00	91652.00	91664.00	91676.00	91688.00	91700.00	91712.00	91724.00	91736.00	91748.00	91760.00	91772.00	91784.00	91796.00	91808.00	91820.00	91832.00	91844.00	91856.00	91868.00	91880.00	91892.00	91904.00	91916.00	91928.00	91940.00	91952.00	91964.00	91976.00	91988.00	91996.00	92008.00	92020.00	92032.00	92044.00	92056.00	92068.00	92080.00	92092.00	92104.00	92116.00	92128.00	92140.00	92152.00	92164.00	92176.00	92188.00	92200.00	92212.00	92224.00	92236.00	92248.00	92260.00	92272.00	92284.00	92296.00	92308.00	92320.00	92332.00	92344.00	92356.00	92368.00	92380.00	92392.00	92404.00	92416.00	92428.00	92440.00	92452.00	92464.00	92476.00	92488.00	92500.00	92512.00	92524.00	92536.00	92548.00	92560.00	92572.00	92584.00	92596.00	92608.00	92620.00	92632.00	92644.00	92656.00	92668.00	92680.00	92692.00	92704.00	92716.00	92728.00	92740.00	92752.00	92764.00	92776.00	92788.00	92800.00	92812.00	92824.00	92836.00	92848.00	92860.00	92872.00	92884.00	92896.00	92908.00	92920.00	92932.00	92944.00	92956.00	92968.00	92980.00	92992.00	93004.00	93016.00	93028.00	93040.00	93052.00	93064.00	93076.00	93088.00	93100.00	93112.00	93124.00	93136.00	93148.00	93160.00	93172.00	93184.00	93196.00	93208.00	93220.00	93232.00	93244.00	93256.00	93268.00	93280.00	93292.00	93304.00	93316.00	93328.00	93340.00	93352.00	93364.00	93376.00	93388.00	93400.00	93412.00	93424.00	93436.00	93448.00	93460.00	93472.00	93484.00	93496.00	93508.00	93520.00	93532.00	93544.00	93556.00	93568.00	93580.00	93592.00	93604.00	93616.00	93628.00	93640.00	93652.00	93664.00	93676.00	93688.00	93700.00	93712.00	93724.00	93736.00	93748.00	93760.00	93772.00	93784.00	93796.00	93808.00	93820.00	93832.00	93844.00	93856.00	93868.00	93880.00	93892.00	93904.00	93916.00	93928.00	93940.00	93952.00	93964.00	93976.00	93988.00	93996.00	94008.00	94020.00	94032.00	94044.00	94056.00	94068.00	94080.00	94092.00	94104.00	94116.00	94128.00	94140.00	94152.00	94164.00	94176.00	94188.00	94200.00	94212.00	94224.00	94236.00	94248.00	94260.00	94272.00	94284.00	94296.00	94308.00	94320.00	94332.00	94344.00	94356.00	94368.00	94380.00	94392.00	94404.00	94416.00	94428.00	94440.00	94452.00	94464.00	94476.00	94488.00	94500.00	94512.00	94524.00	94536.00	94548.00	94560.00	94572.00	94584.00	94596.00	94608.00	94620.00	94632.00	94644.00	94656.00	94668.00	94680.00	94692.00	94704.00	94716.00	94728.00	94740.00	94752.00	94764.00	94776.00	94788.00	94800.00	94812.00	94824.00	94836.00	94848.00	94860.00	94872.00	94884.00	94896.00	94908.00	94920.00	94932.00	94944.00	94956.00	94968.00	94980.00	94992.00	95004.00	95016.00	95028.00	95040.00	95052.00	95064.00	95076.00	95088.00	95100.00	95112.00	95124.00	95136.00	95148.00	95160.00	95172.00	95184.00	95196.00	95208.00	95220.00	95232.00	95244.00	95256.00	95268.00	95280.00	95292.00	95304.00	95316.00	95328.00	95340.00	95352.00	95364.00	95376.00	95388.00	95400.00	95412.00	95424.00	95436.00	95448.00	95460.00	95472.00	95484.00	95496.00	95508.00	95520.00	95532.00	95544.00	95556.00	95568.00	95580.00	95592.00	95604.00	95616.00	95628.00	95640.00	95652.00	95664.00	95676.00	95688.00	95700.00	95712.00	95724.00	95736.00	95748.00	95760.00	95772.00	95784.00	95796.00	95808.00	95820.00	95832.00	95844.00	95856.00	95868.00	95880.00	95892.00	95904.00	95916.00	95928.00	95940.00	95952.00	95964.00	95976.00	95988.00	95996.00	96008.00	96020.00	96032.00	96044.00	96056.00	96068.00	96080.00	96092.00	96104.00	96116.00	96128.00	96140.00	96152.00	96164.00	96176.00	96188.00	96200.00	96212.00	96224.00	96236.00	96248.00	96260.00	96272.00	96284.00	96296.00	96308.00	96320.00	96332.00	96344.00	96356.00	96368.00	96380.00	96392.00	96404.00	96416.00	96428.00	96440.00	96452.00	96464.00	96476.00	96488.00	96500.00	96512.00	96524.00	96536.00	96548.00	96560.00	96572.00	96584.00	96596.00	96608.00	96620.00	96632.00	96644.00	96656.00	96668.00	96680.00	96692.00	96704.00	96716.00	96728.00	96740.00	96752.00	96764.00	96776.00	96788.00	96800.00	96812.00	96824.00	96836.00	96848.00	96860.00	96872.00	96884.00	96896.00
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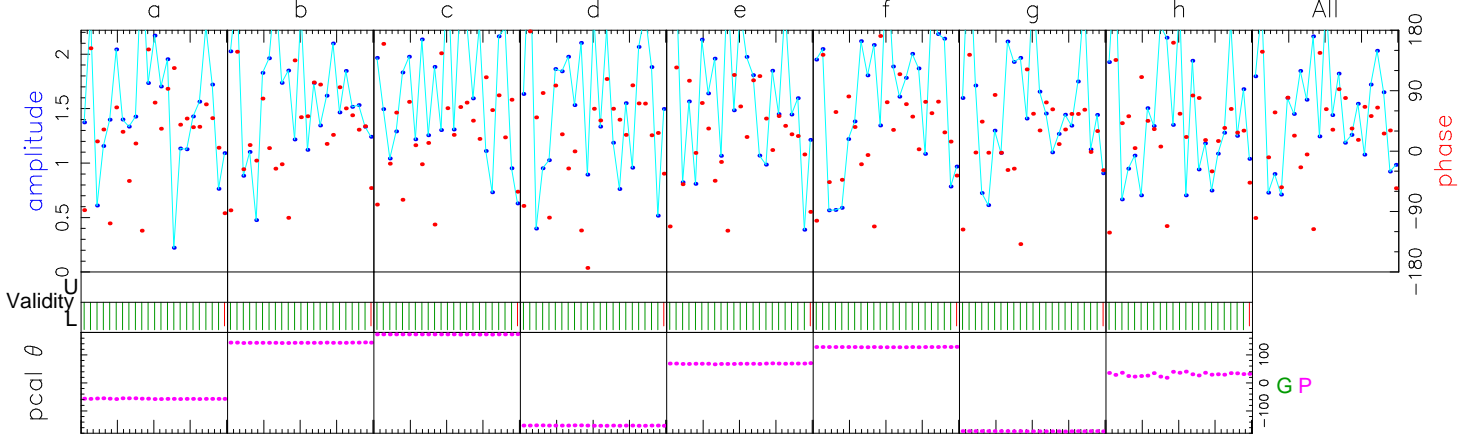
Fringe quality 9

SNR 22.1
Int time 239.547
Amp 0.740
Phase 582.7
PFD 0.0e+00
Delays (us)
SBD -0.087887
MBD -0.008877
Fringe rate (Hz)
-0.055346
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 153000.00
Stop 153400.00
FRT 153200.00
Corr/FF/build
2017:208:133600
2017:213:123457
2017:170:130423
RA & Dec (J2000)
02h24m28.4282s
+6°59'23.342"



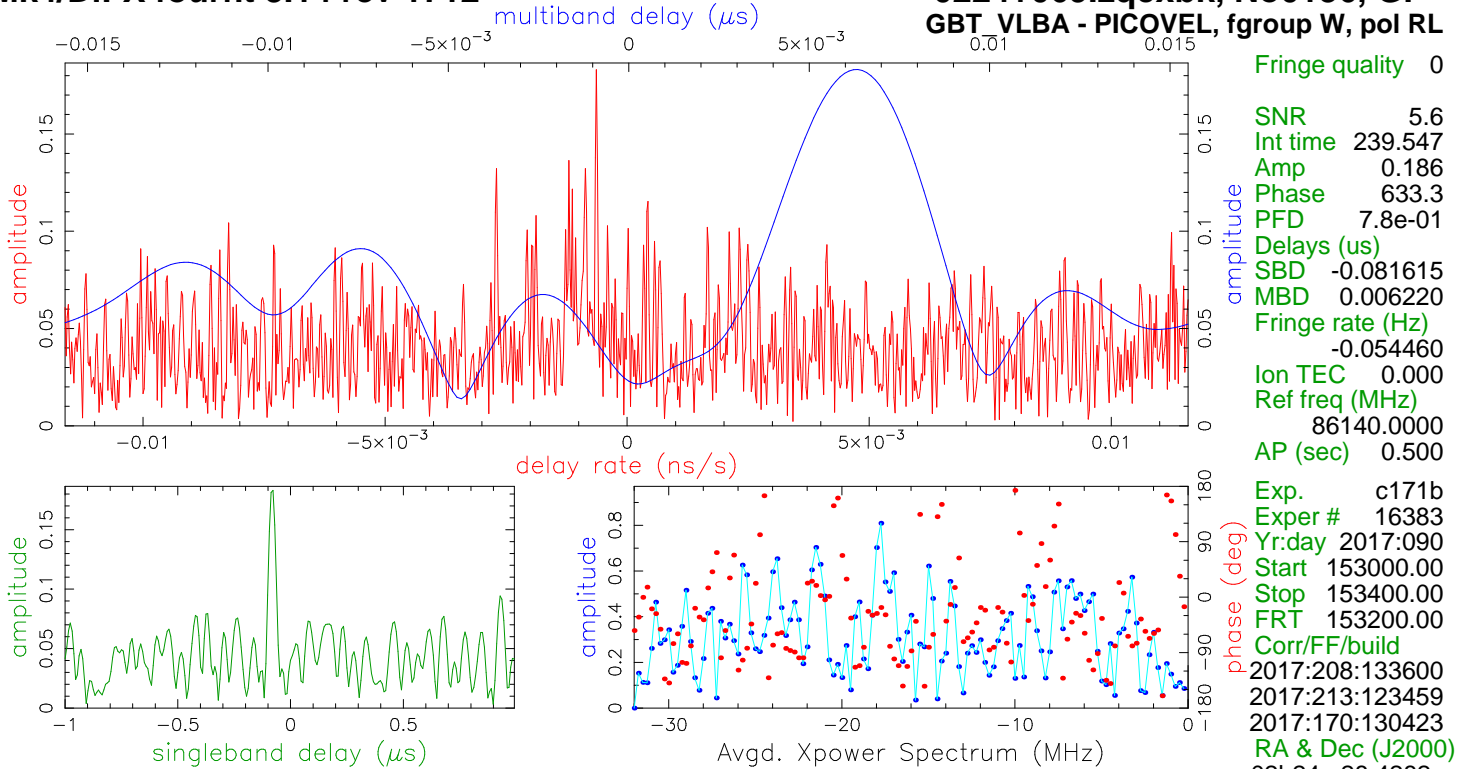
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



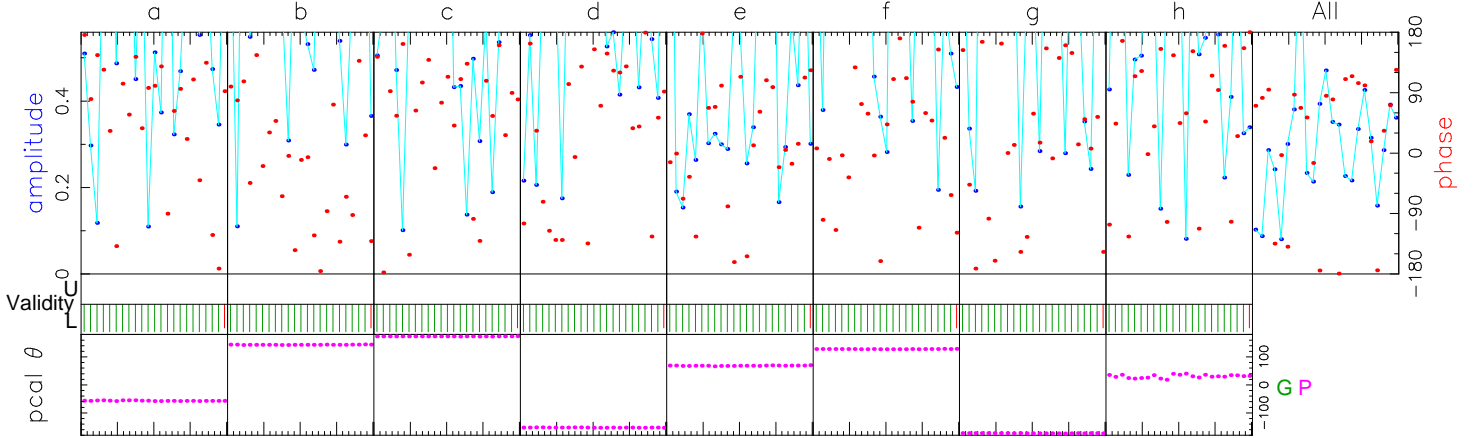
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	48.3	34.1	40.6	53.3	41.7	44.3	38.5	44.8	Phase	42.7
	0.6	0.8	0.9	0.6	0.7	0.8	0.8	0.7	Ampl.	0.7
	117.7	117.7	118.1	118.3	117.2	118.0	117.2	117.9	Sbd box	117.8
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.81827297074E+03		Apriori delay (usec)		-5.81817034378E+03		Resid mbdelay (usec)		-8.87696E-03	+/- 9.8E-05
Sband delay (usec)	-5.81825823078E+03		Apriori clock (usec)		-1.1580660E+01		Resid sbdelay (usec)		-8.78870E-02	+/- 7.8E-04
Phase delay (usec)	-5.81817034240E+03		Apriori clockrate (us/s)		4.3000000E-07		Resid phdelay (usec)		1.37738E-06	+/- 1.7E-07
Delay rate (us/s)	1.44712735240E+00		Apriori rate (us/s)		1.44712799492E+00		Resid rate (us/s)		-6.42514E-07	+/- 1.2E-09
Total phase (deg)	434.1		Apriori accel (us/s/s)		3.11354905162E-05		Resid phase (deg)		582.7	+/- 5.2

ph/seg (deg) 67.0 12.4 Theor. Amplitude 0.740 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 123.8 21.7 Search (1024X32) 0.714 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 6.4 7.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 11.9 12.8 Inc. seg. avg. 1.476 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 Inc. frq. avg. 0.733 u,v (fr/asec) -8330.133 467.837 ion window (TEC) 0.00 0.00

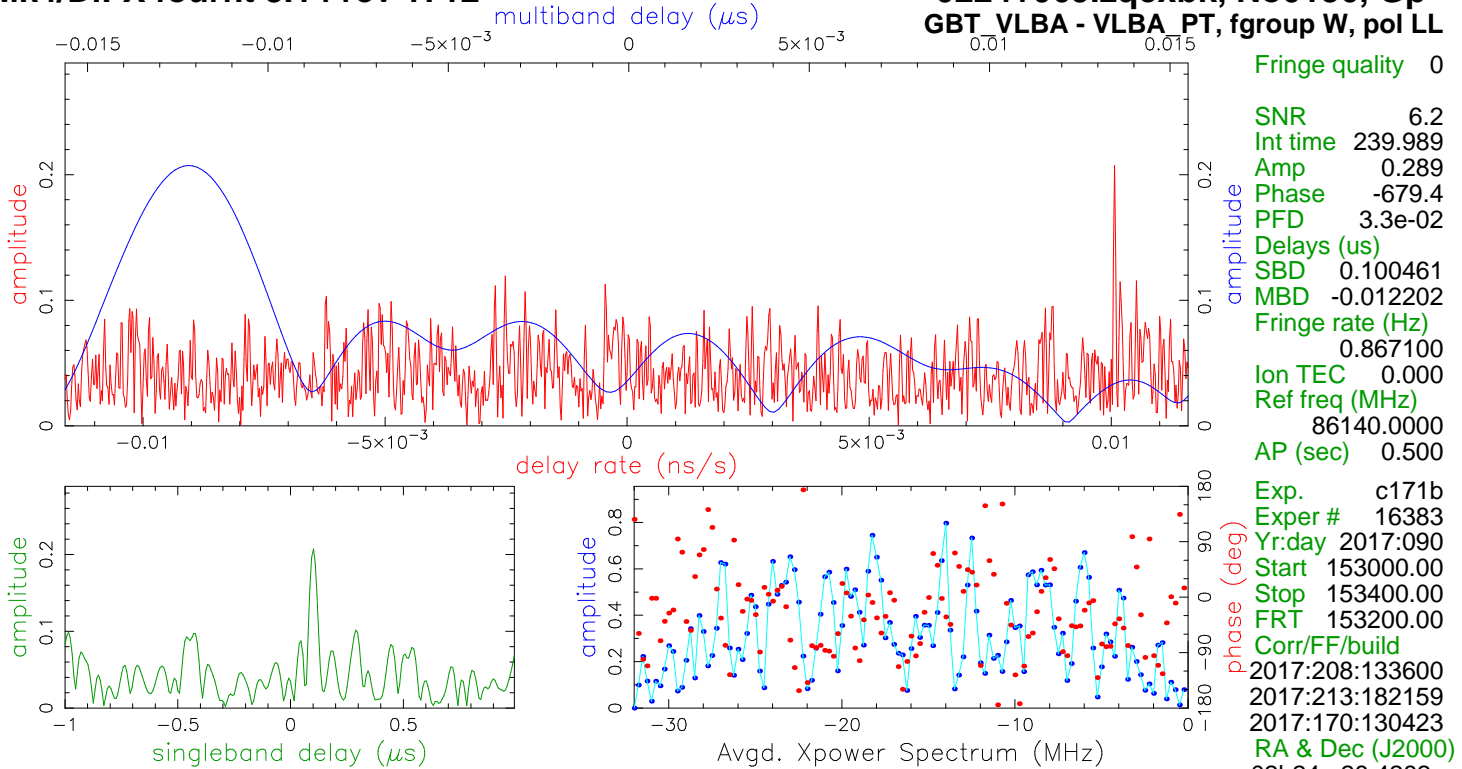
G: az 108.0 el 31.9 pa -48.5 P: az 219.1 el 54.0 pa 30.3 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GP..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GP.W.102.zqcxbk



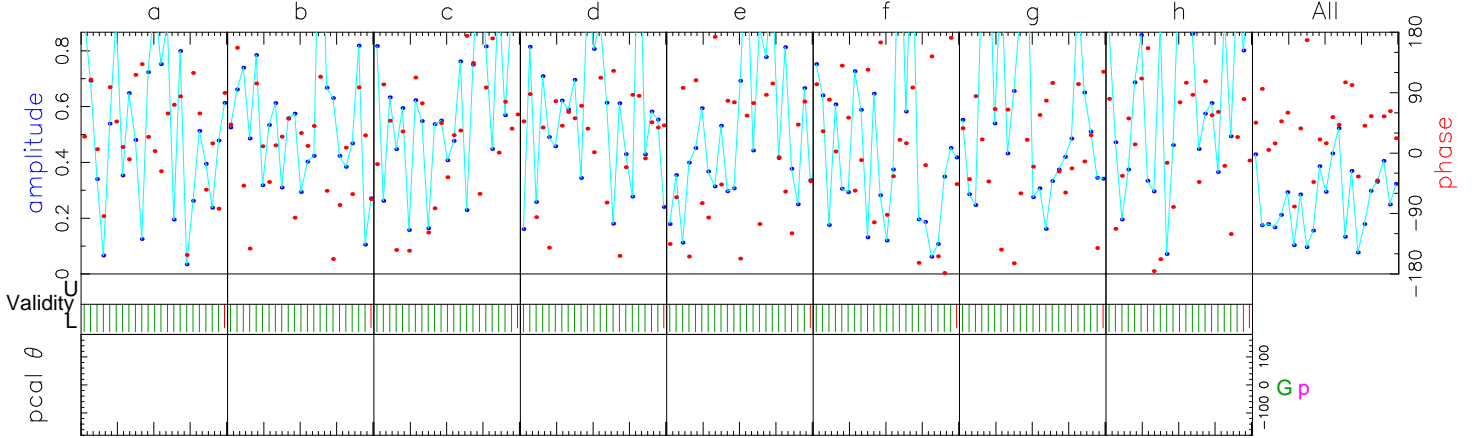
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	86412.00	86444.00	86476.00	86508.00	86540.00	86572.00	86604.00	86636.00	86668.00	86700.00	86732.00	86764.00	86796.00	86828.00	86860.00	86892.00	86924.00	86956.00	86988.00	87020.00	87052.00	87084.00	87116.00	87148.00	87180.00	87212.00	87244.00	87276.00	87308.00	87340.00	87372.00	87404.00	87436.00	87468.00	87500.00	87532.00	87564.00	87596.00	87628.00	87660.00	87692.00	87724.00	87756.00	87788.00	87820.00	87852.00	87884.00	87916.00	87948.00	87980.00	87992.00	88004.00	88016.00	88028.00	88040.00	88052.00	88064.00	88076.00	88088.00	88100.00	88112.00	88124.00	88136.00	88148.00	88160.00	88172.00	88184.00	88196.00	88208.00	88220.00	88232.00	88244.00	88256.00	88268.00	88280.00	88292.00	88304.00	88316.00	88328.00	88340.00	88352.00	88364.00	88376.00	88388.00	88400.00	88412.00	88424.00	88436.00	88448.00	88460.00	88472.00	88484.00	88496.00	88508.00	88520.00	88532.00	88544.00	88556.00	88568.00	88580.00	88592.00	88604.00	88616.00	88628.00	88640.00	88652.00	88664.00	88676.00	88688.00	88700.00	88712.00	88724.00	88736.00	88748.00	88760.00	88772.00	88784.00	88796.00	88808.00	88820.00	88832.00	88844.00	88856.00	88868.00	88880.00	88892.00	88904.00	88916.00	88928.00	88940.00	88952.00	88964.00	88976.00	88988.00	89000.00	89012.00	89024.00	89036.00	89048.00	89060.00	89072.00	89084.00	89096.00	89108.00	89120.00	89132.00	89144.00	89156.00	89168.00	89180.00	89192.00	89204.00	89216.00	89228.00	89240.00	89252.00	89264.00	89276.00	89288.00	89300.00	89312.00	89324.00	89336.00	89348.00	89360.00	89372.00	89384.00	89396.00	89408.00	89420.00	89432.00	89444.00	89456.00	89468.00	89480.00	89492.00	89504.00	89516.00	89528.00	89540.00	89552.00	89564.00	89576.00	89588.00	89600.00	89612.00	89624.00	89636.00	89648.00	89660.00	89672.00	89684.00	89696.00	89708.00	89720.00	89732.00	89744.00	89756.00	89768.00	89780.00	89792.00	89804.00	89816.00	89828.00	89840.00	89852.00	89864.00	89876.00	89888.00	89900.00	89912.00	89924.00	89936.00	89948.00	89960.00	89972.00	89984.00	89996.00	90008.00	90020.00	90032.00	90044.00	90056.00	90068.00	90080.00	90092.00	90104.00	90116.00	90128.00	90140.00	90152.00	90164.00	90176.00	90188.00	90200.00	90212.00	90224.00	90236.00	90248.00	90260.00	90272.00	90284.00	90296.00	90308.00	90320.00	90332.00	90344.00	90356.00	90368.00	90380.00	90392.00	90404.00	90416.00	90428.00	90440.00	90452.00	90464.00	90476.00	90488.00	90500.00	90512.00	90524.00	90536.00	90548.00	90560.00	90572.00	90584.00	90596.00	90608.00	90620.00	90632.00	90644.00	90656.00	90668.00	90680.00	90692.00	90704.00	90716.00	90728.00	90740.00	90752.00	90764.00	90776.00	90788.00	90800.00	90812.00	90824.00	90836.00	90848.00	90860.00	90872.00	90884.00	90896.00	90908.00	90920.00	90932.00	90944.00	90956.00	90968.00	90980.00	90992.00	91004.00	91016.00	91028.00	91040.00	91052.00	91064.00	91076.00	91088.00	91100.00	91112.00	91124.00	91136.00	91148.00	91160.00	91172.00	91184.00	91196.00	91208.00	91220.00	91232.00	91244.00	91256.00	91268.00	91280.00	91292.00	91304.00	91316.00	91328.00	91340.00	91352.00	91364.00	91376.00	91388.00	91400.00	91412.00	91424.00	91436.00	91448.00	91460.00	91472.00	91484.00	91496.00	91508.00	91520.00	91532.00	91544.00	91556.00	91568.00	91580.00	91592.00	91604.00	91616.00	91628.00	91640.00	91652.00	91664.00	91676.00	91688.00	91700.00	91712.00	91724.00	91736.00	91748.00	91760.00	91772.00	91784.00	91796.00	91808.00	91820.00	91832.00	91844.00	91856.00	91868.00	91880.00	91892.00	91904.00	91916.00	91928.00	91940.00	91952.00	91964.00	91976.00	91988.00	91996.00	92008.00	92020.00	92032.00	92044.00	92056.00	92068.00	92080.00	92092.00	92104.00	92116.00	92128.00	92140.00	92152.00	92164.00	92176.00	92188.00	92200.00	92212.00	92224.00	92236.00	92248.00	92260.00	92272.00	92284.00	92296.00	92308.00	92320.00	92332.00	92344.00	92356.00	92368.00	92380.00	92392.00	92404.00	92416.00	92428.00	92440.00	92452.00	92464.00	92476.00	92488.00	92500.00	92512.00	92524.00	92536.00	92548.00	92560.00	92572.00	92584.00	92596.00	92608.00	92620.00	92632.00	92644.00	92656.00	92668.00	92680.00	92692.00	92704.00	92716.00	92728.00	92740.00	92752.00	92764.00	92776.00	92788.00	92800.00	92812.00	92824.00	92836.00	92848.00	92860.00	92872.00	92884.00	92896.00	92908.00	92920.00	92932.00	92944.00	92956.00	92968.00	92980.00	92992.00	93004.00	93016.00	93028.00	93040.00	93052.00	93064.00	93076.00	93088.00	93100.00	93112.00	93124.00	93136.00	93148.00	93160.00	93172.00	93184.00	93196.00	93208.00	93220.00	93232.00	93244.00	93256.00	93268.00	93280.00	93292.00	93304.00	93316.00	93328.00	93340.00	93352.00	93364.00	93376.00	93388.00	93400.00	93412.00	93424.00	93436.00	93448.00	93460.00	93472.00	93484.00	93496.00	93508.00	93520.00	93532.00	93544.00	93556.00	93568.00	93580.00	93592.00	93604.00	93616.00	93628.00	93640.00	93652.00	93664.00	93676.00	93688.00	93700.00	93712.00	93724.00	93736.00	93748.00	93760.00	93772.00	93784.00	93796.00	93808.00	93820.00	93832.00	93844.00	93856.00	93868.00	93880.00	93892.00	93904.00	93916.00	93928.00	93940.00	93952.00	93964.00	93976.00	93988.00	93996.00	94008.00	94020.00	94032.00	94044.00	94056.00	94068.00	94080.00	94092.00	94104.00	94116.00	94128.00	94140.00	94152.00	94164.00	94176.00	94188.00	94200.00	94212.00	94224.00	94236.00	94248.00	94260.00	94272.00	94284.00	94296.00	94308.00	94320.00	94332.00	94344.00	94356.00	94368.00	94380.00	94392.00	94404.00	94416.00	94428.00	94440.00	94452.00	94464.00	94476.00	94488.00	94500.00	94512.00	94524.00	94536.00	94548.00	94560.00	94572.00	94584.00	94596.00	94608.00	94620.00	94632.00	94644.00	94656.00	94668.00	94680.00	94692.00	94704.00	94716.00	94728.00	94740.00	94752.00	94764.00	94776.00	94788.00	94800.00	94812.00	94824.00	94836.00	94848.00	94860.00	94872.00	94884.00	94896.00	94908.00	94920.00	94932.00	94944.00	94956.00	94968.00	94980.00	94992.00	95004.00	95016.00	95028.00	95040.00	95052.00	95064.00	95076.00	95088.00	95100.00	95112.00	95124.00	95136.00	95148.00	95160.00	95172.00	95184.00	95196.00	95208.00	95220.00	95232.00	95244.00	95256.00	95268.00	95280.00	95292.00	95304.00	95316.00	95328.00	95340.00	95352.00	95364.00	95376.00	95388.00	95400.00	95412.00	95424.00	95436.00	95448.00	95460.00	95472.00	95484.00	95496.00	95508.00	95520.00	95532.00	95544.00	95556.00	95568.00	95580.00	95592.00	95604.00	95616.00	95628.00	95640.00	95652.00	95664.00	95676.00	95688.00	95700.00	95712.00	95724.00	95736.00	95748.00	95760.00	95772.00	95784.00	95796.00	95808.00	95820.00	95832.00	95844.00	95856.00	95868.00	95880.00	95892.00	95904.00	95916.00	95928.00	95940.00	95952.00	95964.00	95976.00	95988.00	95996.00	96008.00	96020.00	96032.00	96044.00	96056.00	96068.00	96080.00	96092.00	96104.00	96116.00	96128.00	96140.00	96152.00	96164.00	96176.00	96188.00	96200.00	96212.00	96224.00	96236.00	96248.00	96260.00	96272.00	96284.00	96296.00	96308.00	96320.00	96332.00	96344.00	96356.00	96368.00	96380.00	96392.00	96404.00	96416.00	96428.00	96440.00	96452.00	96464.00	96476.00	96488.00	96500.00	96512.00	96524.00	96536.00	96548.00	96560.00	96572.00	96584.00	96596.00	96608.00	96620.00	96632.00	96644.00	96656.00	96668.00	96680.00	96692.00	96704.00	96716.00	96728.00	96740.00	96752.00	96764.00	96776.00	96788.00	96800.00	96812.00	96824.00	96836.00	96848.00	96860.00	96872.00	96884.00	96896.00	9
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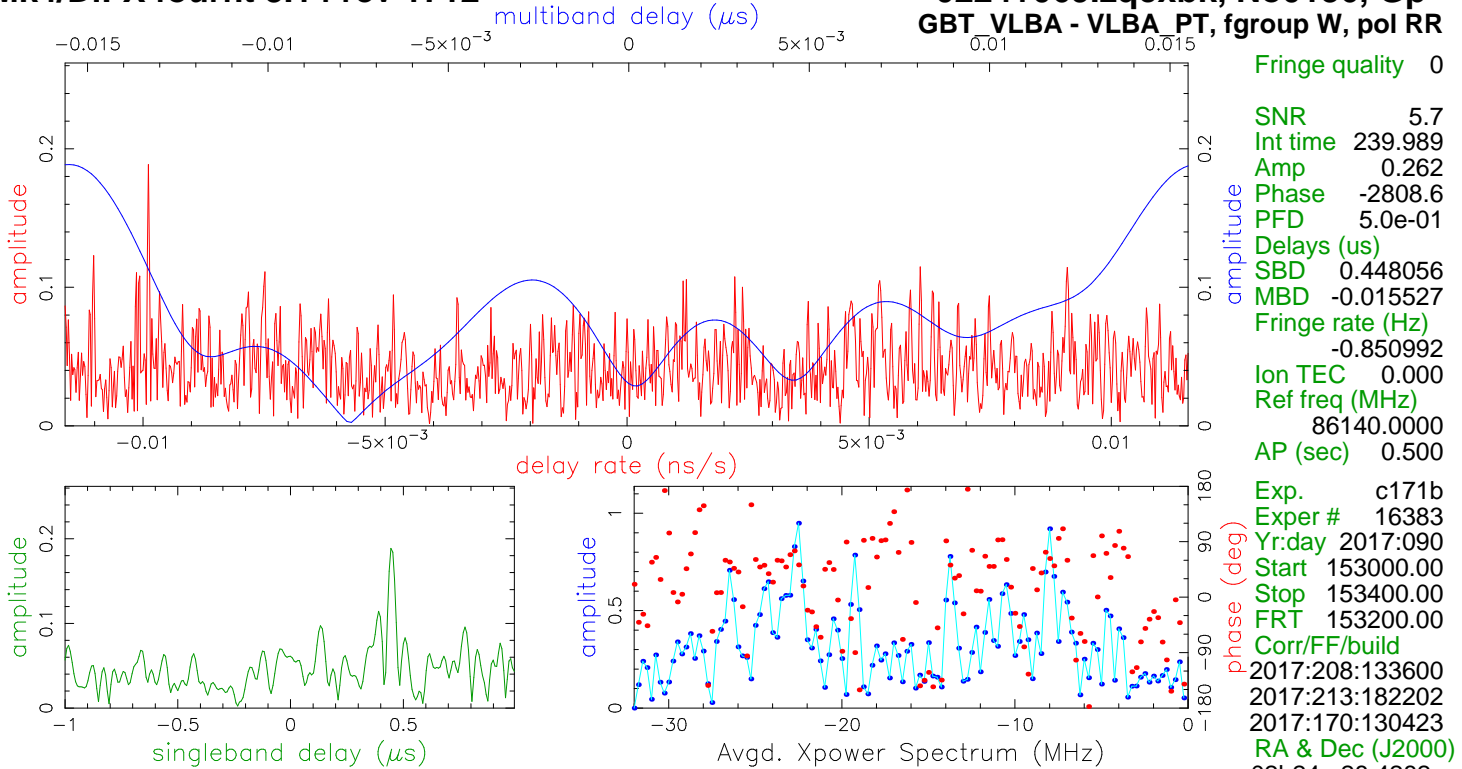


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

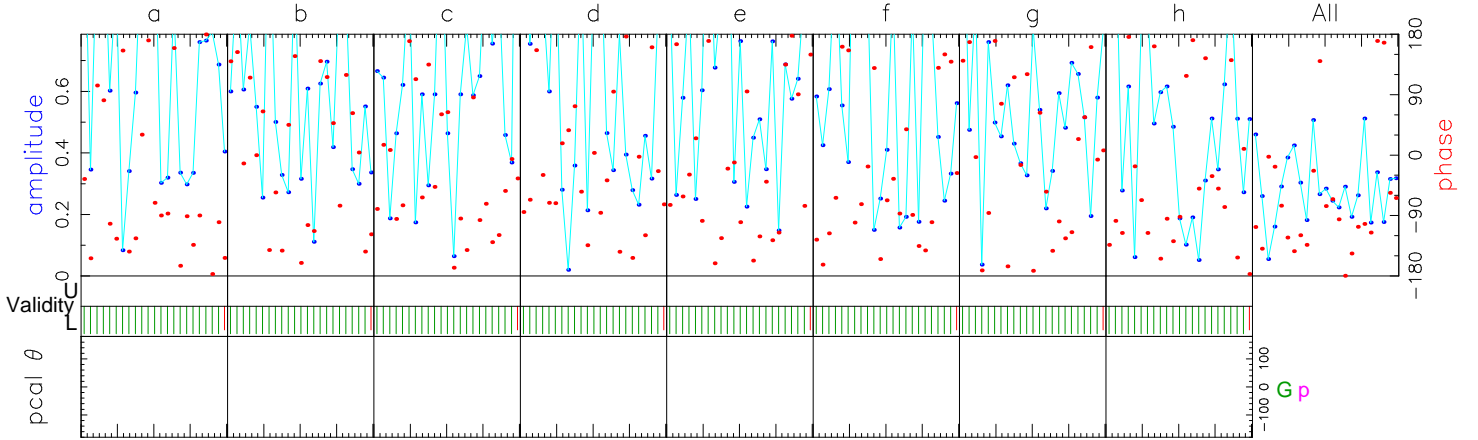


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	40.5	26.6	41.0	53.9	49.7	32.7	6.9	60.9	Phase	40.6
	0.5	0.2	0.4	0.5	0.1	0.2	0.3	0.4	Ampl.	0.3
	142.6	239.5	69.2	142.0	233.0	221.0	199.7	167.3	Sbd box	141.9
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
G:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
p	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Tracks	
Group delay (usec)(sbd)		7.52502175625E+03		Apriori delay (usec)		7.52490895808E+03		Resid mbdelay (usec)		-1.22018E-02 +/- 3.5E-04
Sband delay (usec)		7.52500941908E+03		Apriori clock (usec)		-1.3618750E+01		Resid sbdelay (usec)		1.00461E-01 +/- 2.8E-03
Phase delay (usec)		7.52490895939E+03		Apriori clockrate (us/s)		-3.4534658E-08		Resid phdelay (usec)		1.31025E-06 +/- 5.9E-07
Delay rate (us/s)		-2.85224623658E-01		Apriori rate (us/s)		-2.85234689828E-01		Resid rate (us/s)		1.00662E-05 +/- 4.3E-09
Total phase (deg)			-445.8	Apriori accel (us/s/s)		-3.92767814758E-05		Resid phase (deg)		-679.4 +/- 18.4

ph/seg (deg) 53.6 44.2 Search (1024X32) 0.202 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 64.2 77.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 18.6 26.1 Inc. seg. avg. 0.284 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 45.6 45.5 Inc. frq. avg. 0.272 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 G: az 108.0 el 31.9 pa -48.5 p: az 88.2 el 9.9 pa -56.3 u,v (fr/asec) 1618.812 126.640 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/Gp..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/Gp.W.361.zqcxbk



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

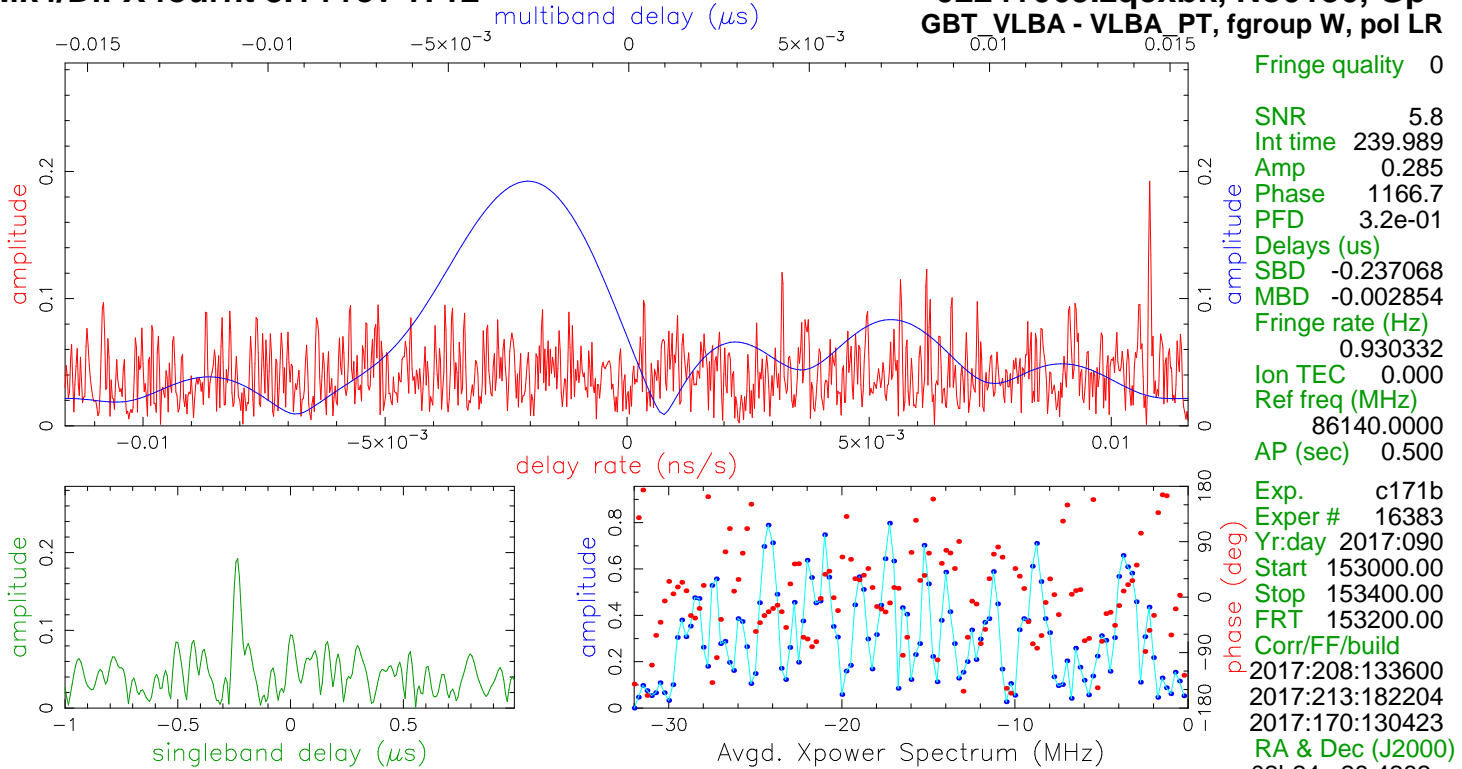


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-133.8	160.5	-71.4	-70.2	-115.6	-99.2	163.5	-126.6	Phase	-108.6
0.3	0.2	0.3	0.5	0.3	0.4	0.1	0.4	Ampl.	0.3
226.3	41.0	106.2	187.7	105.3	185.0	128.7	185.1	Sbd box	186.4
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G 0	0	0	0	0	0	0	0	PC freqs	
p 0	0	0	0	0	0	0	0	PC freqs	
G:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000		
G W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
p W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	7.52536218089E+03	Apriori delay (usec)	7.52490895808E+03	Resid mbdelay (usec)	-1.55272E-02	+/-	3.8E-04		
Sband delay (usec)	7.52535701408E+03	Apriori clock (usec)	-1.3618750E+01	Resid sbdelay (usec)	4.48056E-01	+/-	3.0E-03		
Phase delay (usec)	7.52490895458E+03	Apriori clockrate (us/s)	-3.4534658E-08	Resid phdelay (usec)	-3.50328E-06	+/-	6.5E-07		
Delay rate (us/s)	-2.85244569003E-01	Apriori rate (us/s)	-2.85234689828E-01	Resid rate (us/s)	-9.87918E-06	+/-	4.7E-09		
Total phase (deg)		Apriori accel (us/s/s)	-3.92767814758E-05	Resid phase (deg)	-2808.6	+/-	20.1		

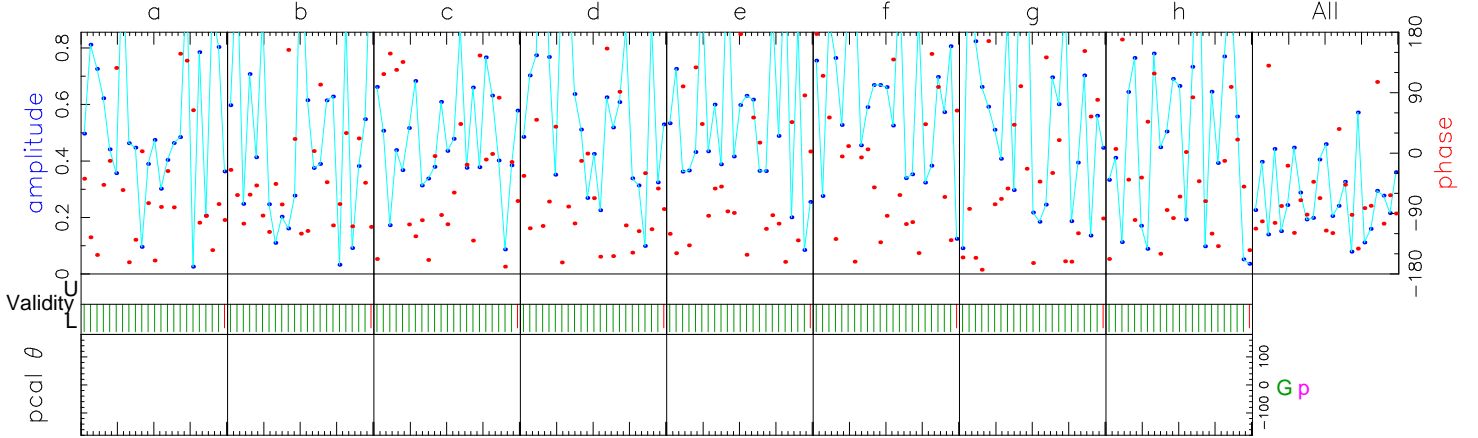
ph/seg (deg)	RMS 55.9	Theor. 48.1	Amplitude 55.9	0.262 +/- 0.046	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	77.6	84.0	Search (1024X32)	0.182	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
ph/frq (deg)	57.7	28.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
amp/frq (%)	53.0	49.5	Inc. seg. avg.	0.292	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
			Inc. frq. avg.	0.288	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			

G: az 108.0 el 31.9 pa -48.5 p: az 88.2 el 9.9 pa -56.3 u,v (fr/asec) 1618.812 126.640 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/Gp..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/Gp.W.362.zqcxbk



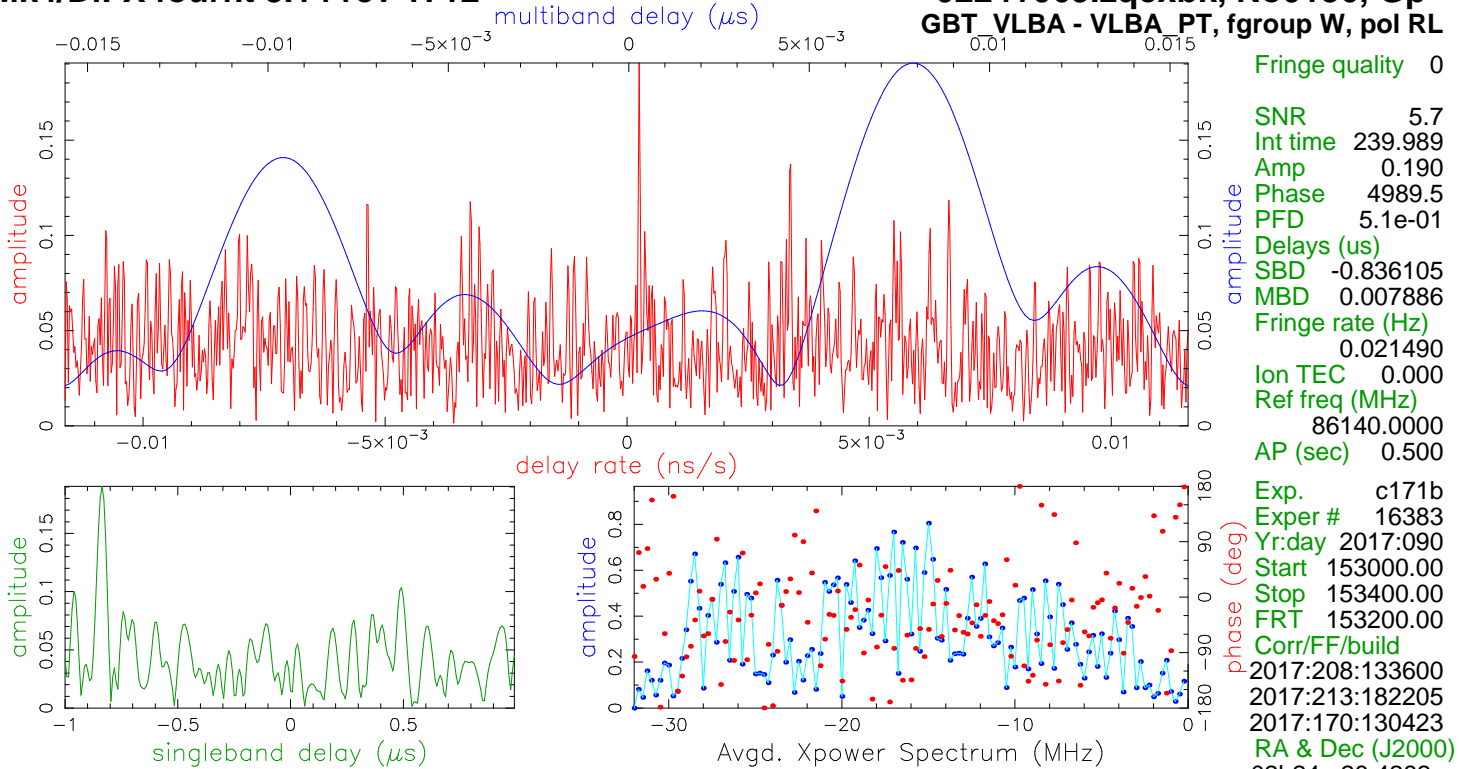
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-107.2	-69.5	-83.5	-100.5	-114.1	-101.6	-106.8	-54.4	Phase	-93.3
0.4	0.5	0.1	0.5	0.3	0.2	0.2	0.2	Ampl.	0.3
182.8	128.5	145.3	98.3	240.9	198.1	116.6	85.7	Sbd box	98.7
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	PC freqs	
G:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	Chan ids	
p	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	7.52468735395E+03		Apriori delay (usec)	7.52490895808E+03		Resid mbdelay (usec)	-2.85413E-03	+/-	3.7E-04
Sband delay (usec)	7.52467189058E+03		Apriori clock (usec)	-1.3618750E+01		Resid sbdelay (usec)	-2.37068E-01	+/-	3.0E-03
Phase delay (usec)	7.52490895507E+03		Apriori clockrate (us/s)	-3.4534658E-08		Resid phdelay (usec)	-3.00930E-06	+/-	6.4E-07
Delay rate (us/s)	-2.85223889596E-01		Apriori rate (us/s)	-2.85234689828E-01		Resid rate (us/s)	1.08002E-05	+/-	4.6E-09
Total phase (deg)		1400.3	Apriori accel (us/s/s)	-3.92767814758E-05		Resid phase (deg)	1166.7	+/-	19.7

RMS Theor. Amplitude 0.285 +/- 0.049 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 58.8 47.3 Search (1024X32) 0.181 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 78.0 82.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 22.8 27.9 Inc. seg. avg. 0.307 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 44.0 48.7 Inc. frq. avg. 0.268 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 108.0 el 31.9 pa -48.5 p: az 88.2 el 9.9 pa -56.3 u,v (fr/asec) 1618.812 126.640 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/Gp..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/Gp.W.363.zqcxbk



Fringe quality 0

SNR 5.7

Int time 239.989

Amp 0.190

Phase 4989.5

PFD 5.1e-01

Delays (us)

SBD -0.836105

MBD 0.007886

Fringe rate (Hz) 0.021490

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.500

Exp. c171b

Exper # 16383

Yr:day 2017:090

Start 153000.00

Stop 153400.00

FRT 153200.00

Corr/FF/build

2017:208:133600

2017:213:182205

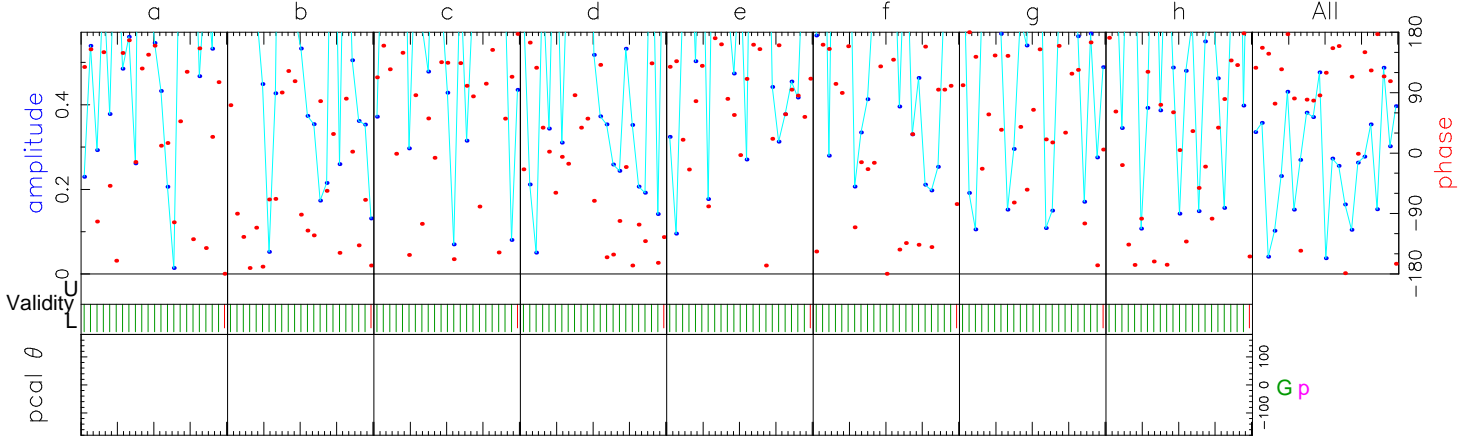
2017:170:130423

RA & Dec (J2000)

02h24m28.4282s

+6°59'23.342"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	147.7	127.6	126.4	13.8	115.0	147.8	92.6	169.2	Phase	129.5
	0.3	0.1	0.3	0.1	0.3	0.3	0.2	0.2	Ampl.	0.2
	22.8	218.6	207.4	174.8	251.9	203.2	92.2	8.3	Sbd box	22.0
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
G:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
p	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.52407309382E+03		Apriori delay (usec)		7.52490895808E+03		Resid mbdelay (usec)		7.88574E-03	+/- 3.8E-04
Sband delay (usec)	7.52407285358E+03		Apriori clock (usec)		-1.3618750E+01		Resid sbdelay (usec)		-8.36105E-01	+/- 3.0E-03
Phase delay (usec)	7.52490896225E+03		Apriori clockrate (us/s)		-3.4534658E-08		Resid phdelay (usec)		4.17463E-06	+/- 6.5E-07
Delay rate (us/s)	-2.85234440352E-01		Apriori rate (us/s)		-2.85234689828E-01		Resid rate (us/s)		2.49476E-07	+/- 4.7E-09
Total phase (deg)	4863.1		Apriori accel (us/s/s)		-3.92767814758E-05		Resid phase (deg)		4989.5	+/- 20.1

ph/seg (deg) 47.7 48.2 Search (1024X32) 0.189 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

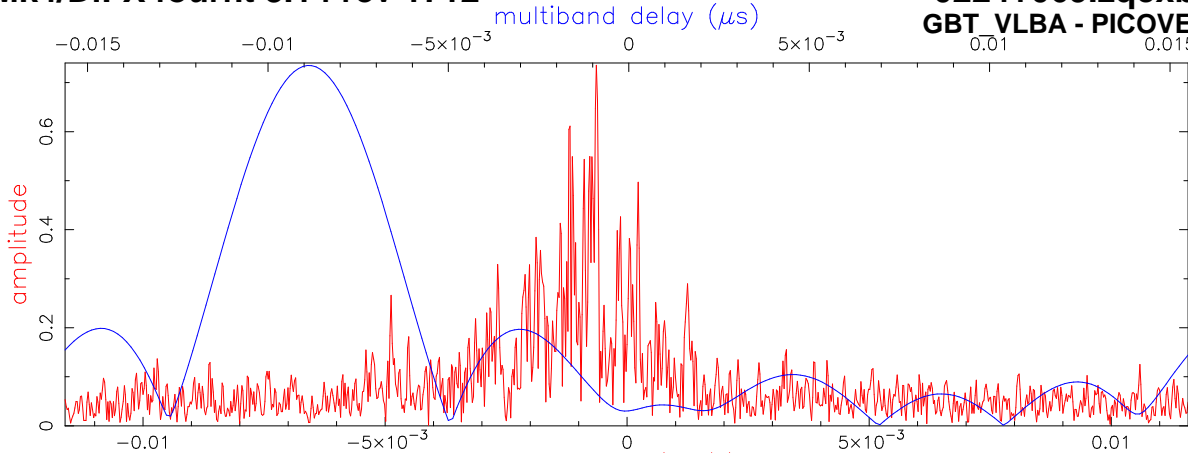
amp/seg (%) 79.0 84.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 53.6 28.4 Inc. seg. avg. 0.199 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 50.3 49.6 Inc. frq. avg. 0.204 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

G: az 108.0 el 31.9 pa -48.5 p: az 88.2 el 9.9 pa -56.3 u,v (fr/asec) 1618.812 126.640 simultaneous interpolator

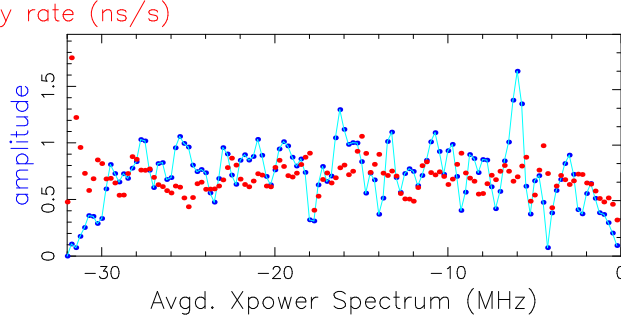
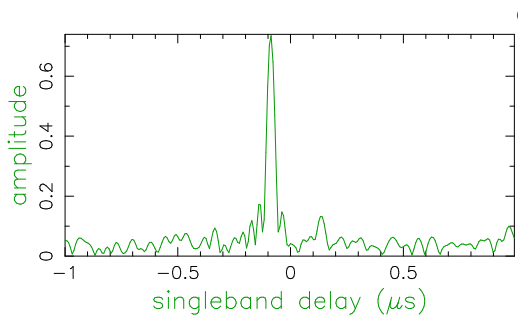
Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/Gp..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/Gp.W.364.zqcxbk



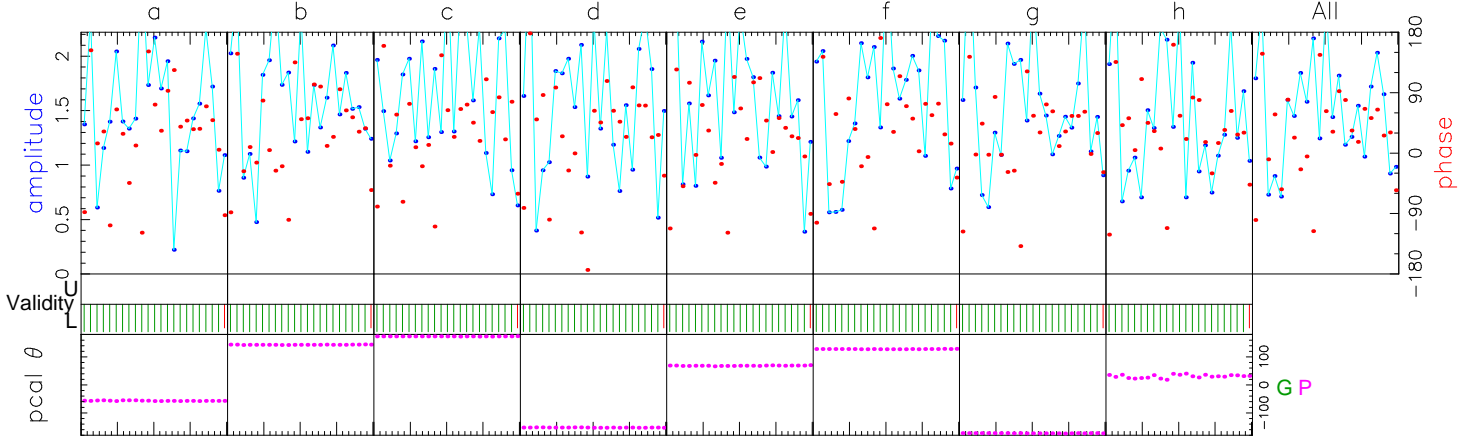
Fringe quality 9

SNR 22.1
Int time 239.547
Amp 0.740
Phase 582.7
PFD 0.0e+00
Delays (us)
SBD -0.087887
MBD -0.008877
Fringe rate (Hz)
-0.055346
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 153000.00
Stop 153400.00
FRT 153200.00
Corr/FF/build
2017:208:133600
2017:213:182211
2017:170:130423
RA & Dec (J2000)
02h24m28.4282s
+6°59'23.342"

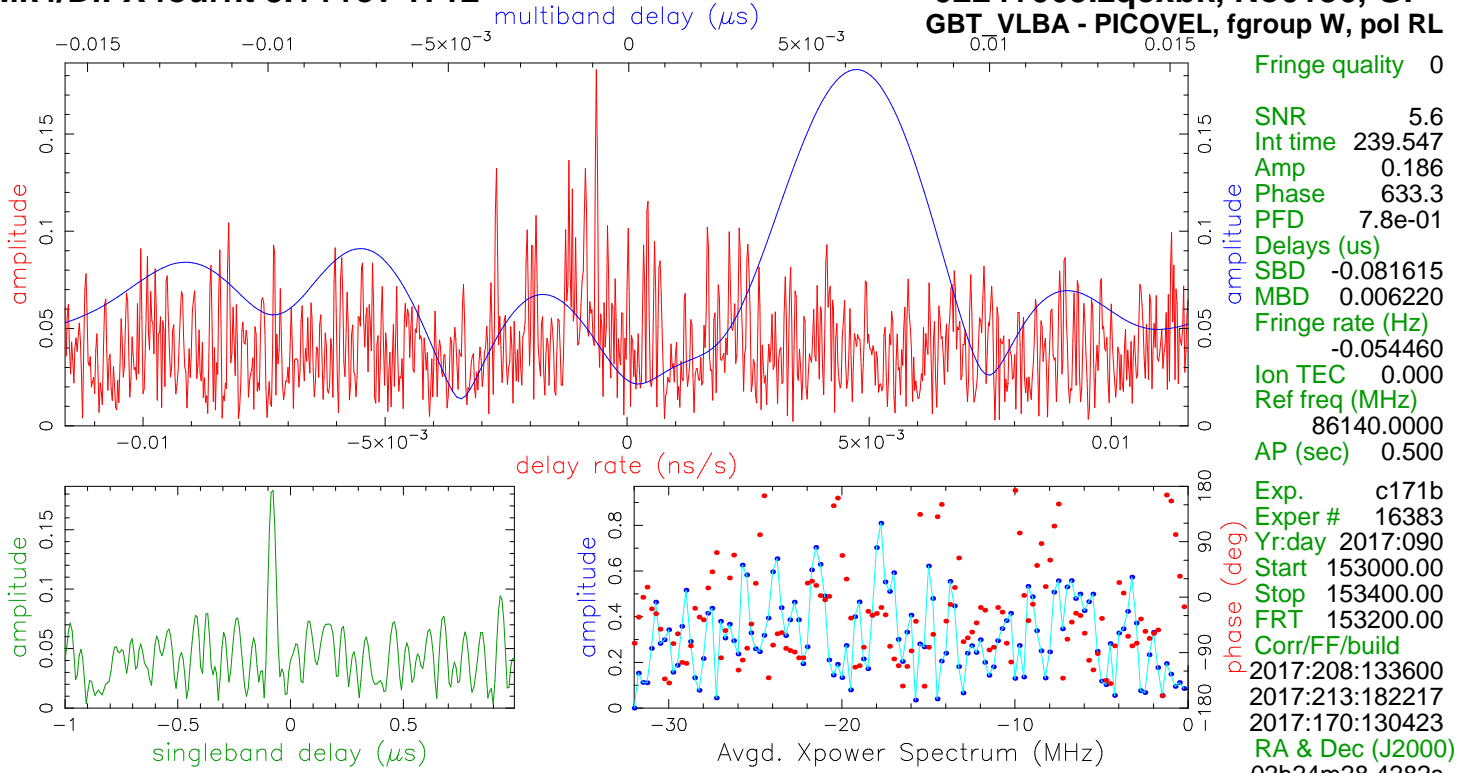


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

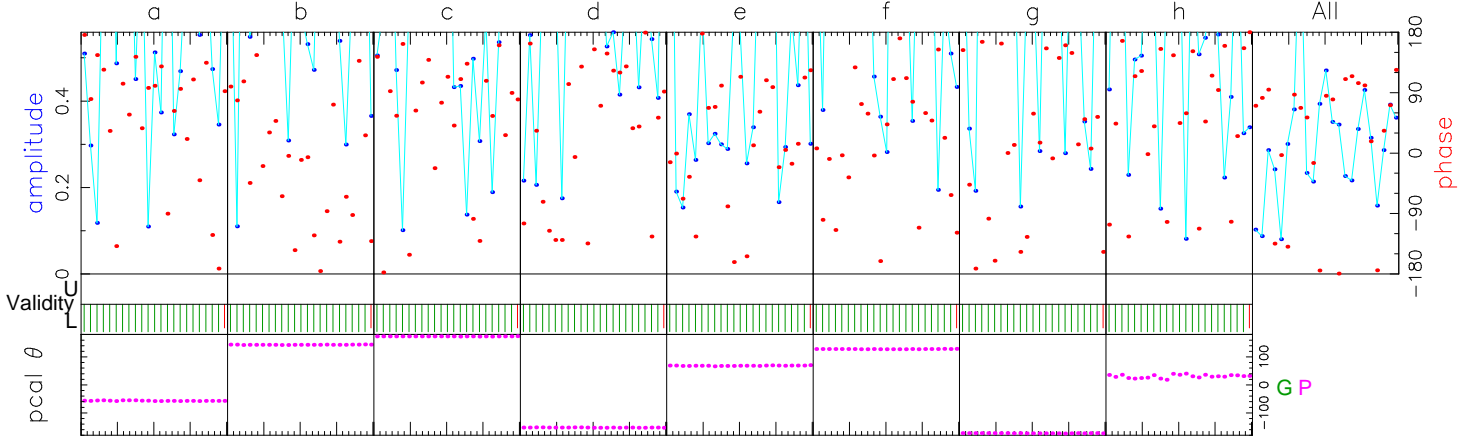


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	48.3	34.1	40.6	53.3	41.7	44.3	38.5	44.8	Phase	42.7
	0.6	0.8	0.9	0.6	0.7	0.8	0.8	0.7	Ampl.	0.7
	117.7	117.7	118.1	118.3	117.2	118.0	117.2	117.9	Sbd box	117.8
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.81827297074E+03		Apriori delay (usec)		-5.81817034378E+03		Resid mbdelay (usec)		-8.87696E-03	+/- 9.8E-05
Sband delay (usec)	-5.81825823078E+03		Apriori clock (usec)		-1.1580660E+01		Resid sbdelay (usec)		-8.78870E-02	+/- 7.8E-04
Phase delay (usec)	-5.81817034240E+03		Apriori clockrate (us/s)		4.3000000E-07		Resid phdelay (usec)		1.37738E-06	+/- 1.7E-07
Delay rate (us/s)	1.44712735240E+00		Apriori rate (us/s)		1.44712799492E+00		Resid rate (us/s)		-6.42514E-07	+/- 1.2E-09
Total phase (deg)	434.1		Apriori accel (us/s/s)		3.11354905162E-05		Resid phase (deg)		582.7	+/- 5.2

ph/seg (deg) 67.0 12.4 Theor. Amplitude 0.740 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 123.8 21.7 Search (1024X32) 0.714 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 6.4 7.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 11.9 12.8 Inc. seg. avg. 1.476 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 G: az 108.0 el 31.9 pa -48.5 P: az 219.1 el 54.0 pa 30.3 u,v (fr/asec) -8330.133 467.837 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GP..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GP.W.366.zqcxbk



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

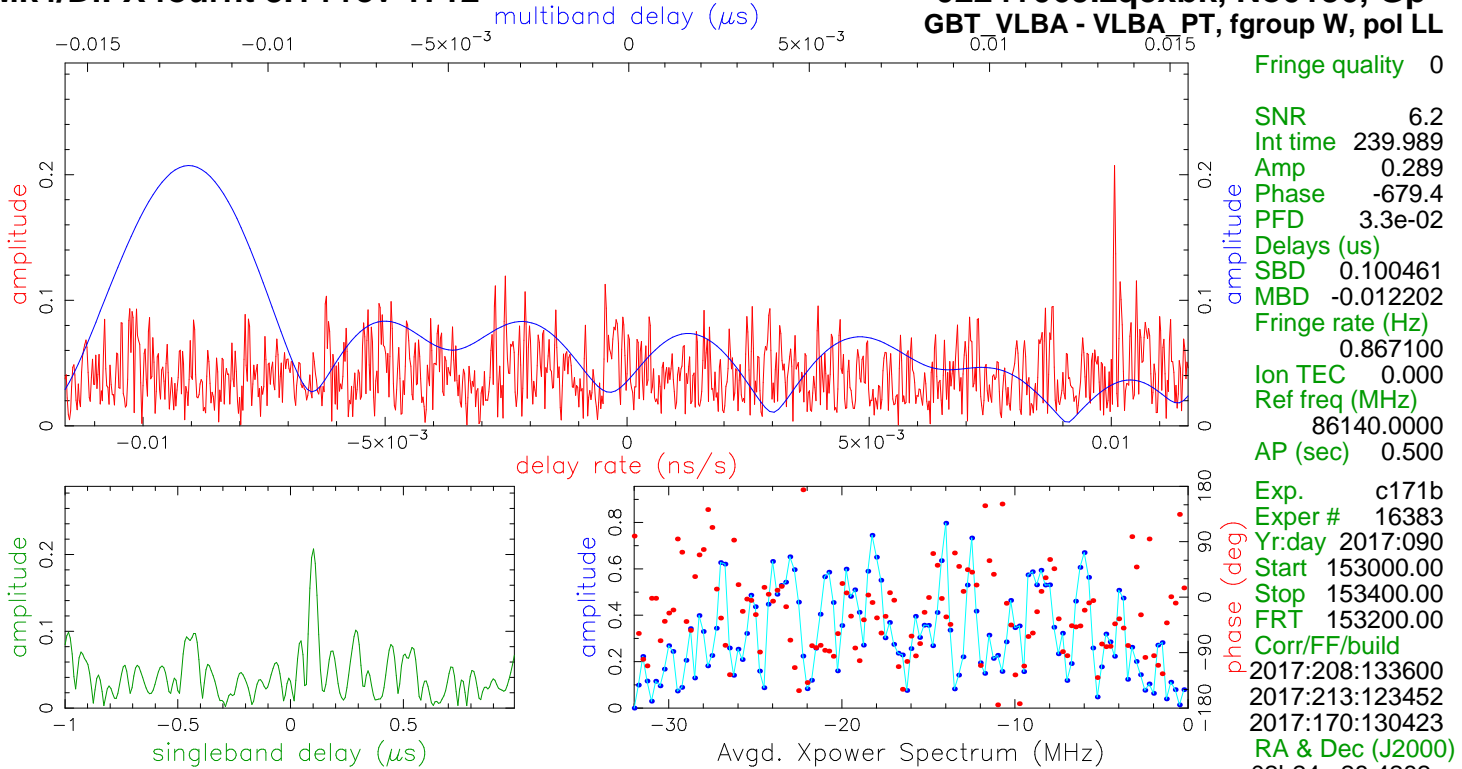


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
92.0	46.4	95.8	135.4	67.5	43.1	140.0	103.5	Phase	93.3
0.3	0.1	0.4	0.2	0.2	0.2	0.1	0.2	Ampl.	0.2
119.2	128.0	118.0	134.9	189.8	98.7	184.7	79.6	Sbd box	118.6
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G 0	0	0	0	0	0	0	0	PC freqs	
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P 1000	1000	1000	1000	1000	1000	1000	1000		
G W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Tracks	
Group delay (usec)(sbd)	-5.81825787418E+03		Apriori delay (usec)	-5.81817034378E+03		Resid mbdelay (usec)	6.21960E-03	+/-	3.9E-04
Sband delay (usec)	-5.81825195878E+03		Apriori clock (usec)	-1.1580660E+01		Resid sbdelay (usec)	-8.16150E-02	+/-	3.1E-03
Phase delay (usec)	-5.81817034077E+03		Apriori clockrate (us/s)	4.3000000E-07		Resid phdelay (usec)	3.00715E-06	+/-	6.6E-07
Delay rate (us/s)	1.44712736269E+00		Apriori rate (us/s)	1.44712799492E+00		Resid rate (us/s)	-6.32222E-07	+/-	4.8E-09
Total phase (deg)		484.6	Apriori accel (us/s/s)	3.11354905162E-05		Resid phase (deg)	633.3	+/-	20.6

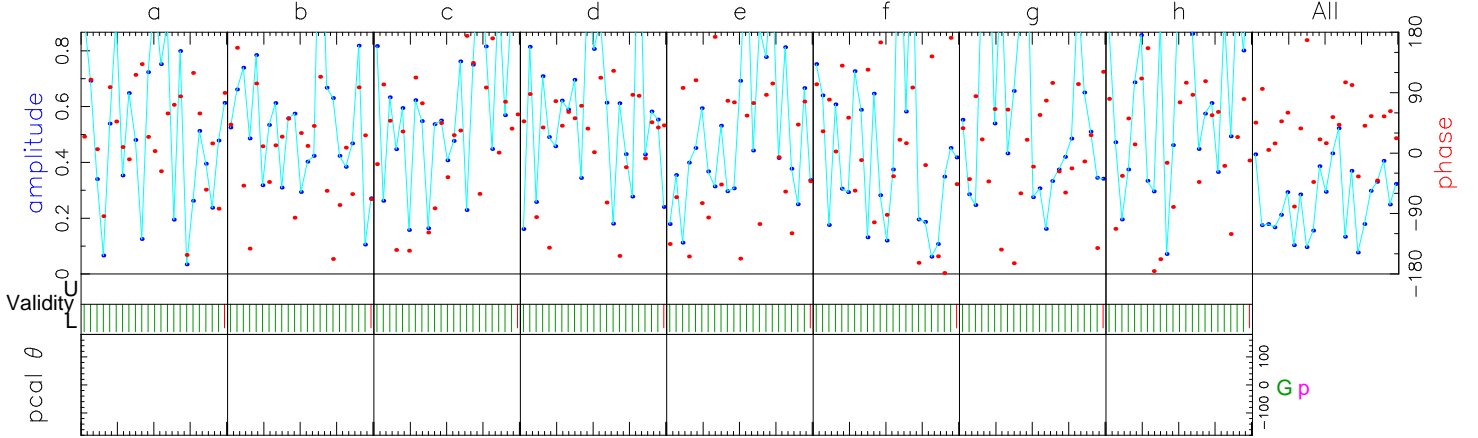
ph/seg (deg)	64.1	Theor. 49.3	Amplitude	0.186 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	104.8	86.0	Search (1024X32)	0.178	Pcal rate: 0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.016	0.016
ph/frq (deg)	39.7	29.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled		dr window (ns/s)	-0.012	0.012
amp/frq (%)	54.7	50.7	Inc. seg. avg.	0.224	Sample rate(MSamp/s): 64			ion window (TEC)	0.00	0.00
			Inc. frq. avg.	0.185	Data rate(Mb/s): 1024	nlags: 128	t_cohere infinite			

G: az 108.0 el 31.9 pa -48.5 P: az 219.1 el 54.0 pa 30.3 u,v (fr/asec) -8330.133 467.837 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GP..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GP.W.368.zqcxbk



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	40.5	26.6	41.0	53.9	49.7	32.7	6.9	60.9	Phase	40.6
	0.5	0.2	0.4	0.5	0.1	0.2	0.3	0.4	Ampl.	0.3
	142.6	239.5	69.2	142.0	233.0	221.0	199.7	167.3	Sbd box	141.9
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
G:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
p	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		7.52502175625E+03		Apriori delay (usec)		7.52490895808E+03		Resid mbdelay (usec)		-1.22018E-02 +/- 3.5E-04
Sband delay (usec)		7.52500941908E+03		Apriori clock (usec)		-1.3618750E+01		Resid sbdelay (usec)		1.00461E-01 +/- 2.8E-03
Phase delay (usec)		7.52490895939E+03		Apriori clockrate (us/s)		-3.4534658E-08		Resid phdelay (usec)		1.31025E-06 +/- 5.9E-07
Delay rate (us/s)		-2.85224623658E-01		Apriori rate (us/s)		-2.85234689828E-01		Resid rate (us/s)		1.00662E-05 +/- 4.3E-09
Total phase (deg)			-445.8	Apriori accel (us/s/s)		-3.92767814758E-05		Resid phase (deg)		-679.4 +/- 18.4

ph/seg (deg) 53.6 44.2 Search (1024X32) 0.202 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

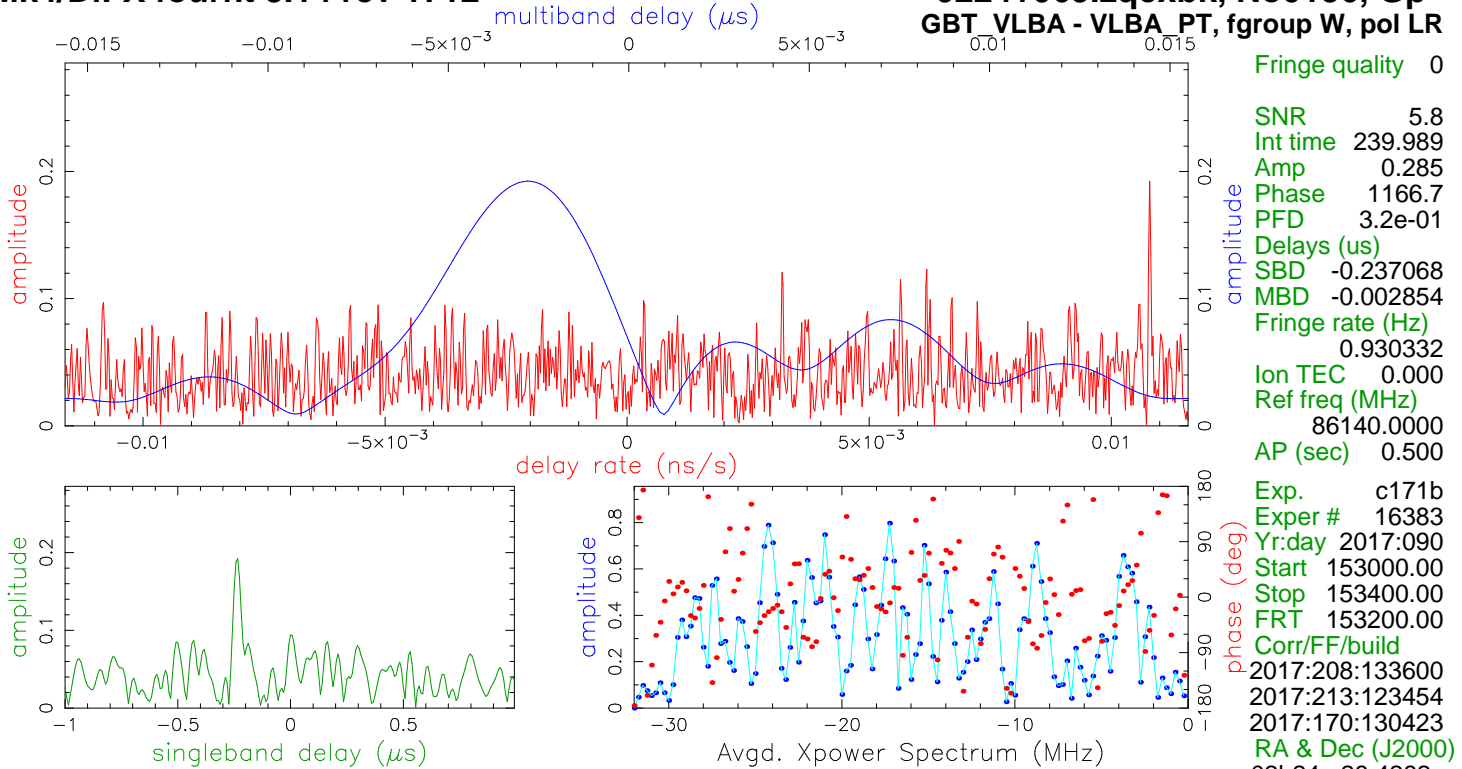
amp/seg (%) 64.2 77.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 18.6 26.1 Inc. seg. avg. 0.284 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

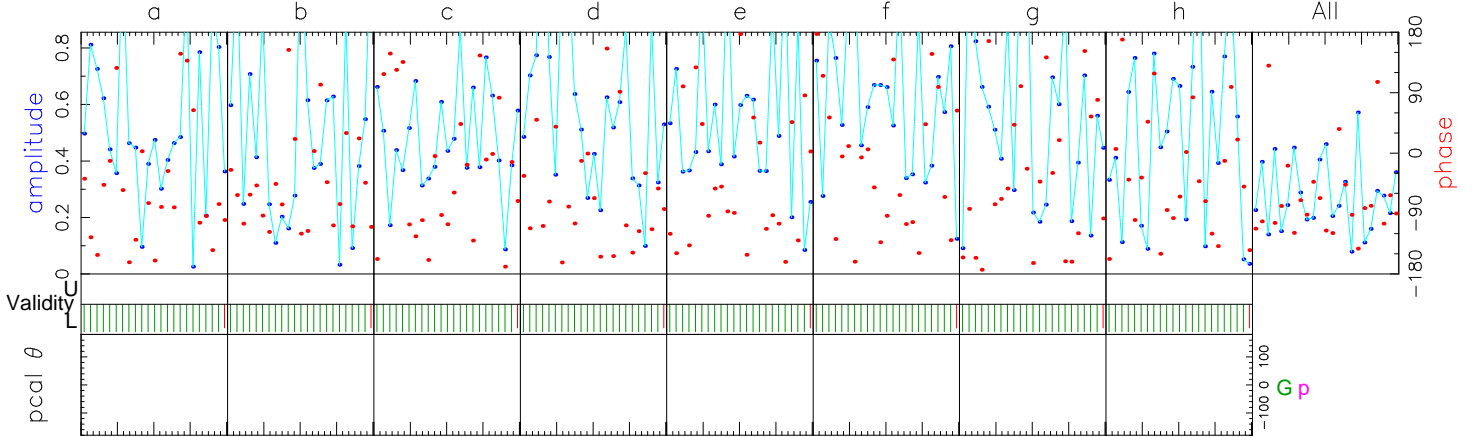
amp/frq (%) 45.6 45.5 Inc. frq. avg. 0.272 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

G: az 108.0 el 31.9 pa -48.5 p: az 88.2 el 9.9 pa -56.3 u,v (fr/asec) 1618.812 126.640 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/Gp..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/Gp.W.97.zqcxbk



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

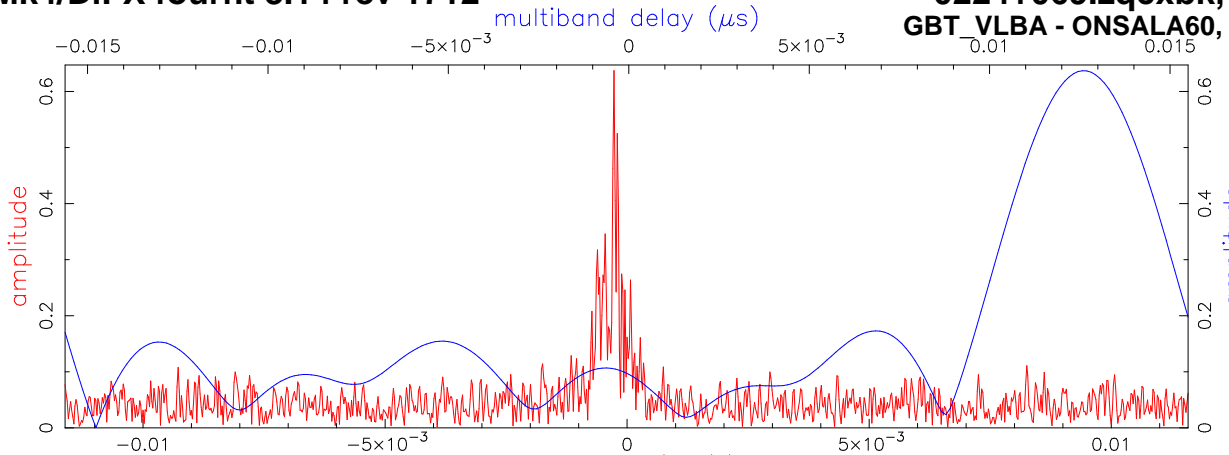


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-107.2	-69.5	-83.5	-100.5	-114.1	-101.6	-106.8	-54.4	Phase	-93.3
0.4	0.5	0.1	0.5	0.3	0.2	0.2	0.2	Ampl.	0.3
182.8	128.5	145.3	98.3	240.9	198.1	116.6	85.7	Sbd box	98.7
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	PC freqs	
G:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	Chan ids	
p	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	7.52468735395E+03		Apriori delay (usec)	7.52490895808E+03		Resid mbdelay (usec)	-2.85413E-03	+/-	3.7E-04
Sband delay (usec)	7.52467189058E+03		Apriori clock (usec)	-1.3618750E+01		Resid sbdelay (usec)	-2.37068E-01	+/-	3.0E-03
Phase delay (usec)	7.52490895507E+03		Apriori clockrate (us/s)	-3.4534658E-08		Resid phdelay (usec)	-3.00930E-06	+/-	6.4E-07
Delay rate (us/s)	-2.85223889596E-01		Apriori rate (us/s)	-2.85234689828E-01		Resid rate (us/s)	1.08002E-05	+/-	4.6E-09
Total phase (deg)		1400.3	Apriori accel (us/s/s)	-3.92767814758E-05		Resid phase (deg)	1166.7	+/-	19.7

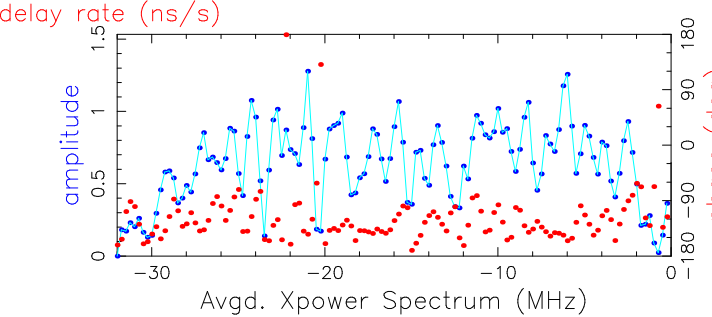
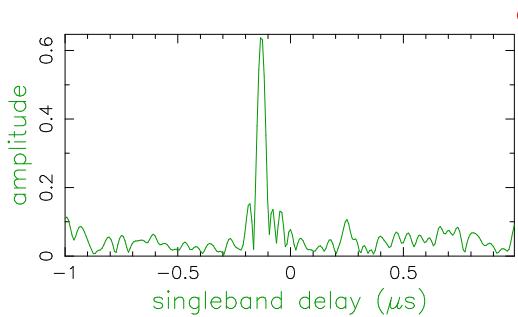
ph/seg (deg)	58.8	Theor. 47.3	Amplitude	0.285 +/- 0.049	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	78.0	82.5	Search (1024X32)	0.181	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.016	0.016
ph/frq (deg)	22.8	27.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.012	0.012
amp/frq (%)	44.0	48.7	Inc. seg. avg.	0.307	Sample rate(MSamp/s):	64	Data rate(Mb/s):	1024	ion window (TEC)	0.00	0.00
			Inc. frq. avg.	0.268	nlags:	128	t_cohere	infinite			

G: az 108.0 el 31.9 pa -48.5 p: az 88.2 el 9.9 pa -56.3 u,v (fr/asec) 1618.812 126.640 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/Gp..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/Gp.W.99.zqcxbk

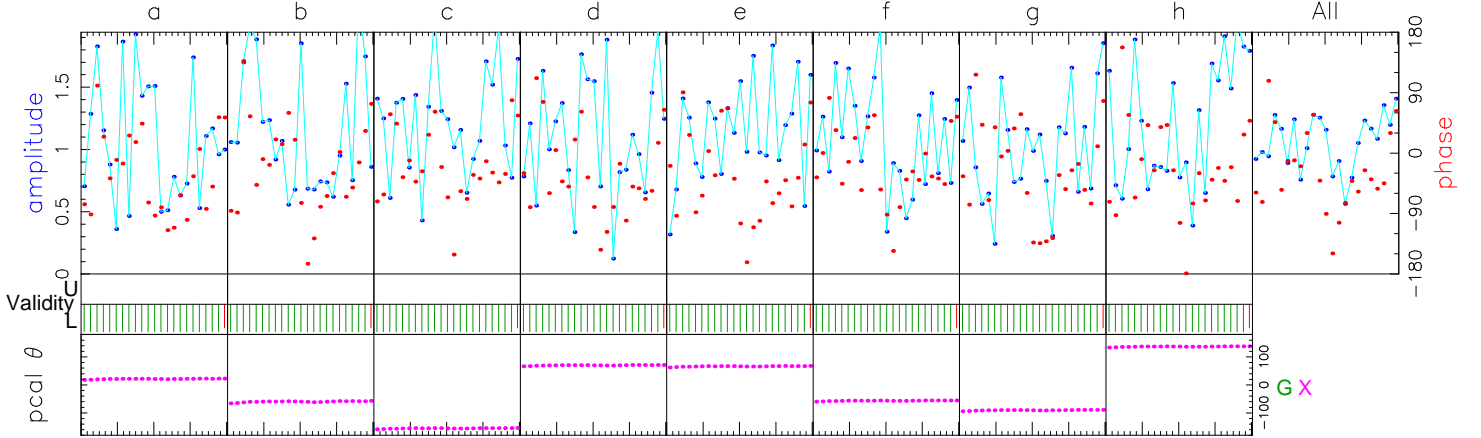


Fringe quality 9
 SNR 19.4
 Int time 239.918
 Amp 0.647
 Phase 873.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.129393
 MBD 0.012621
 Fringe rate (Hz) -0.023250
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500



Exp. c171b
 Exper # 16383
 Yr:day 2017:090
 Start 153000.00
 Stop 153400.00
 FRT 153200.00
 Corr/FF/build
 2017:208:133600
 2017:213:182147
 2017:170:130423
 RA & Dec (J2000)
 02h24m28.4282s
 +6°59'23.342"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

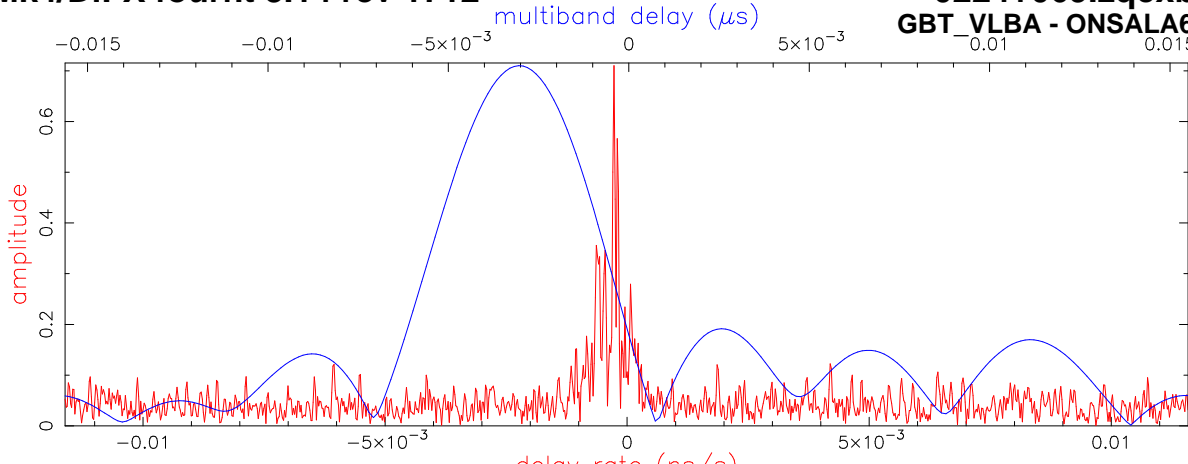


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-30.2	-21.4	-20.3	-35.4	-45.2	-11.8	-29.6	-28.3	Phase	-26.8
0.6	0.6	0.8	0.6	0.6	0.7	0.5	0.8	Ampl.	0.6
112.8	112.8	112.2	112.3	112.4	112.4	112.2	112.5	Sbd box	112.4
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G 0	0	0	0	0	0	0	0	PC freqs	
X -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X 1000	1000	1000	1000	1000	1000	1000	1000		
G W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
X W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

Group delay (usec)(sbd) 1.36594146131E+02 Apriori delay (usec) 1.36737774901E+02 Resid mbdelay (usec) 1.26212E-02 +/- 1.1E-04
 Sband delay (usec) 1.36608382401E+02 Apriori clock (usec) -1.3480362E+01 Resid sbdelay (usec) -1.29393E-01 +/- 8.9E-04
 Phase delay (usec) 1.36737774037E+02 Apriori clockrate (us/s) 2.5959009E-07 Resid phdelay (usec) -8.63874E-07 +/- 1.9E-07
 Delay rate (us/s) 1.48639000057E+00 Apriori rate (us/s) 1.48639027048E+00 Resid rate (us/s) -2.69914E-07 +/- 1.4E-09
 Total phase (deg) 1208.0 Apriori accel (us/s/s) -3.86545412541E-06 Resid phase (deg) 873.2 +/- 5.9

RMS Theor. Amplitude 0.647 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 58.4 14.2 Search (1024X32) 0.632 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 71.6 24.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 11.0 8.4 Inc. seg. avg. 1.028 Sample rate(MSamp/s): 64 dr window (ns/s) -0.012 0.012
 amp/frq (%) 16.7 14.6 Inc. frq. avg. 0.639 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 108.0 el 31.9 pa -48.5 X: az 225.1 el 31.9 pa 22.7 u,v (fr/asec) -8578.339 -1980.978 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GX..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GX.W.357.zqcxbk



Fringe quality 9

SNR 21.4

Int time 239.918

Amp 0.715

Phase 411.0

PFD 0.0e+00

Delays (us)

SBD -0.080472

MBD -0.003020

Fringe rate (Hz)

-0.023494

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.500

Exp. c171b

Exper # 16383

Yr:day 2017:090

Start 153000.00

Stop 153400.00

FRT 153200.00

Corr/FF/build

2017:208:133600

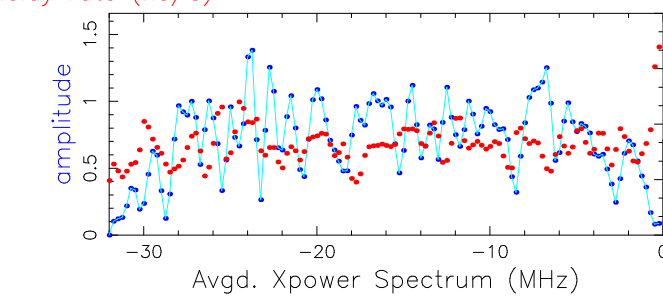
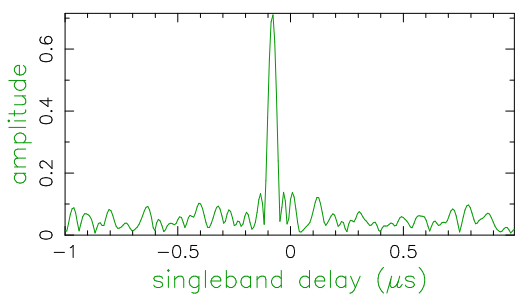
2017:213:182150

2017:170:130423

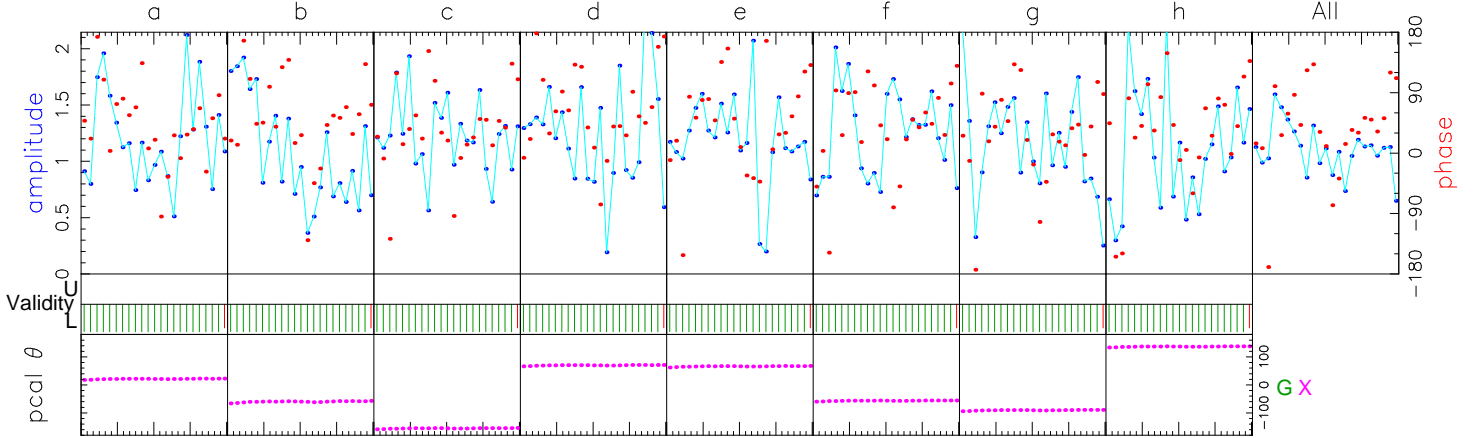
RA & Dec (J2000)

02h24m28.4282s

+6°59'23.342"



Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	46.5	61.6	41.2	63.4	52.0	50.9	33.2	62.5	Phase	51.0
	0.7	0.7	0.8	0.7	0.7	0.8	0.7	0.7	Ampl.	0.7
	118.5	118.7	118.9	118.7	118.6	118.3	118.8	118.9	Sbd box	118.7
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.36672255381E+02		Apriori delay (usec)		1.36737774901E+02		Resid mbdelay (usec)		-3.01952E-03	+/- 1.0E-04
Sband delay (usec)	1.36657302401E+02		Apriori clock (usec)		-1.3480362E+01		Resid sbdelay (usec)		-8.04725E-02	+/- 8.0E-04
Phase delay (usec)	1.36737776546E+02		Apriori clockrate (us/s)		2.5959009E-07		Resid phdelay (usec)		1.64465E-06	+/- 1.7E-07
Delay rate (us/s)	1.48638999773E+00		Apriori rate (us/s)		1.48639027048E+00		Resid rate (us/s)		-2.72746E-07	+/- 1.2E-09
Total phase (deg)	385.8		Apriori accel (us/s/s)		-3.86545412541E-06		Resid phase (deg)		411.0	+/- 5.3

ph/seg (deg) 57.5 Theor. 12.8 Amplitude 0.715 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

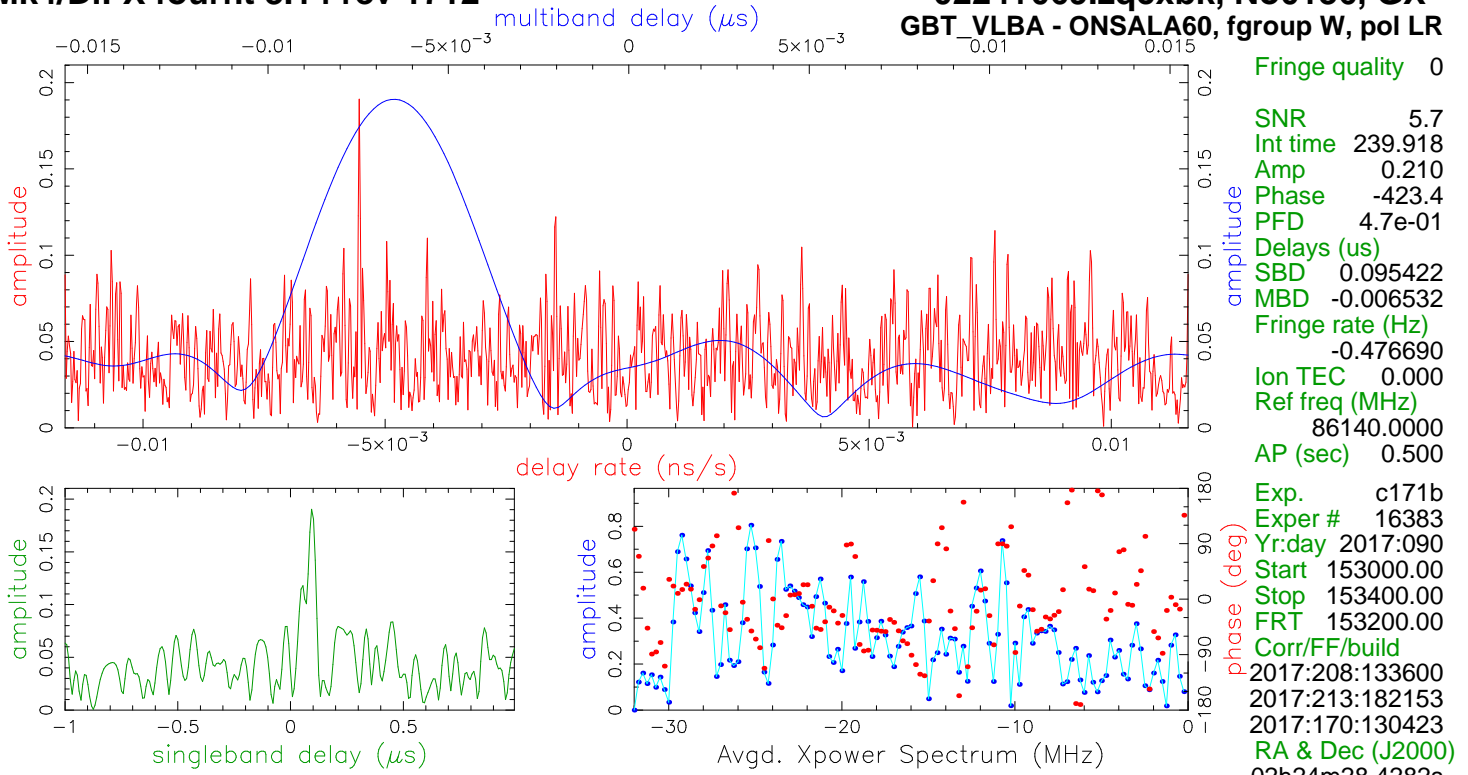
amp/seg (%) 62.2 22.4 Search (1024X32) 0.705 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 11.8 7.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

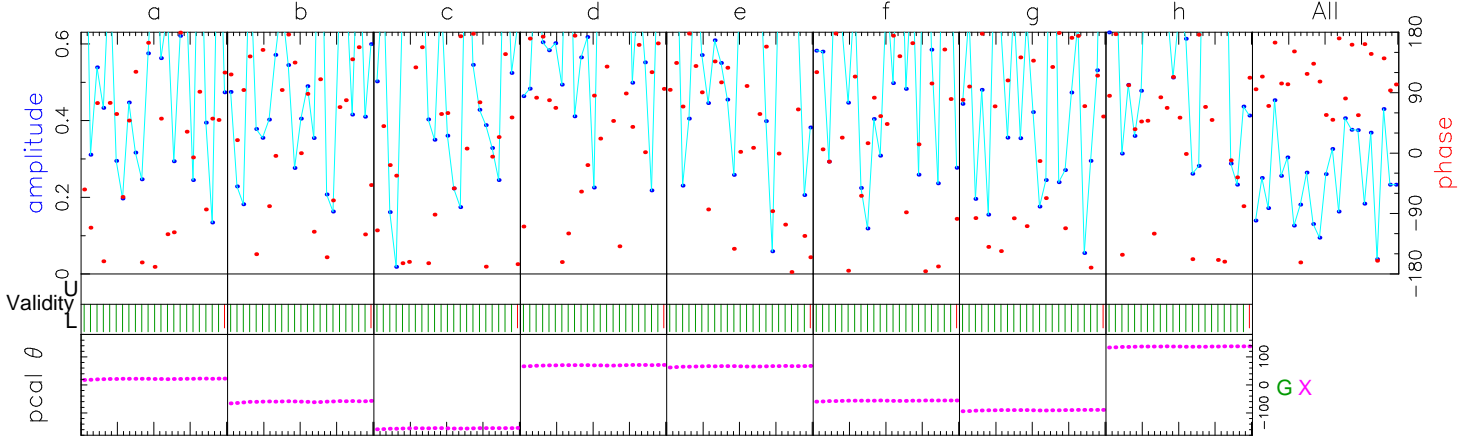
amp/frq (%) 6.8 13.2 Inc. seg. avg. 1.081 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

G: az 108.0 el 31.9 pa -48.5 X: az 225.1 el 31.9 pa 22.7 u,v (fr/asec) -8578.339 -1980.978 ion window (TEC) 0.00 0.00

Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GX..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GX.W.358.zqcxbk simultaneous interpolator

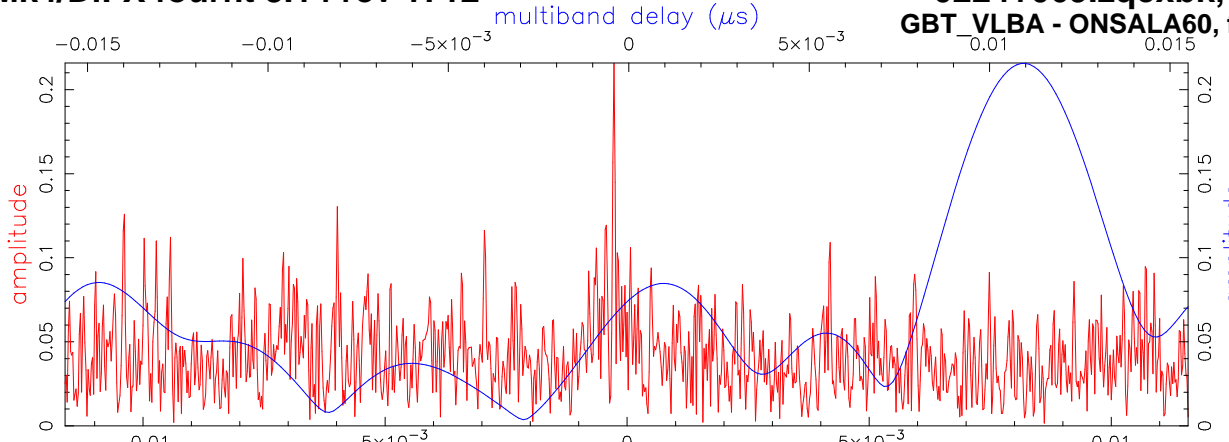


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

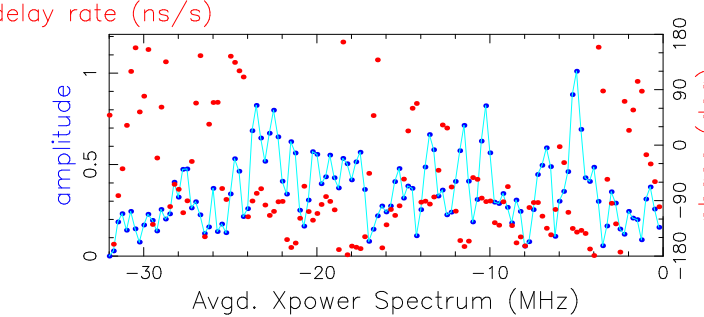
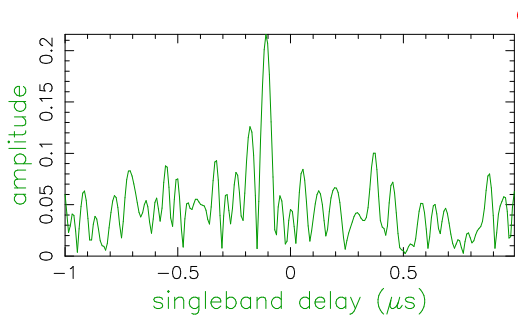


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	86412.00	All
91.9	120.7	137.2	106.8	105.0	130.7	143.4	91.9	116.6		116.6
0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.2		0.2
135.8	201.9	55.2	154.0	145.0	93.5	212.8	126.2	141.2		141.2
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
G	0	0	0	0	0	0	0	0		
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
G:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
G:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
G	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)	1.36824993394E+02		Apriori delay (usec)	1.36737774901E+02	Resid mbdelay (usec)	-6.53151E-03	+/-	3.8E-04		
Sband delay (usec)	1.36833196401E+02		Apriori clock (usec)	-1.3480362E+01	Resid sbdelay (usec)	9.54215E-02	+/-	3.0E-03		
Phase delay (usec)	1.36737778661E+02		Apriori clockrate (us/s)	2.5959009E-07	Resid phdelay (usec)	3.76011E-06	+/-	6.5E-07		
Delay rate (us/s)	1.48638473658E+00		Apriori rate (us/s)	1.48639027048E+00	Resid rate (us/s)	-5.53390E-06	+/-	4.7E-09		
Total phase (deg)		-448.6	Apriori accel (us/s/s)	-3.86545412541E-06	Resid phase (deg)	-423.4	+/-	20.0		

ph/seg (deg) 43.1 48.0 Search (1024X32) 0.187 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 66.4 83.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 21.6 28.3 Inc. seg. avg. 0.204 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 25.5 49.4 Inc. frq. avg. 0.196 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 G: az 108.0 el 31.9 pa -48.5 X: az 225.1 el 31.9 pa 22.7 u,v (fr/asec) -8578.339 -1980.978 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GX..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GX.W.359.zqcxbk simultaneous interpolator

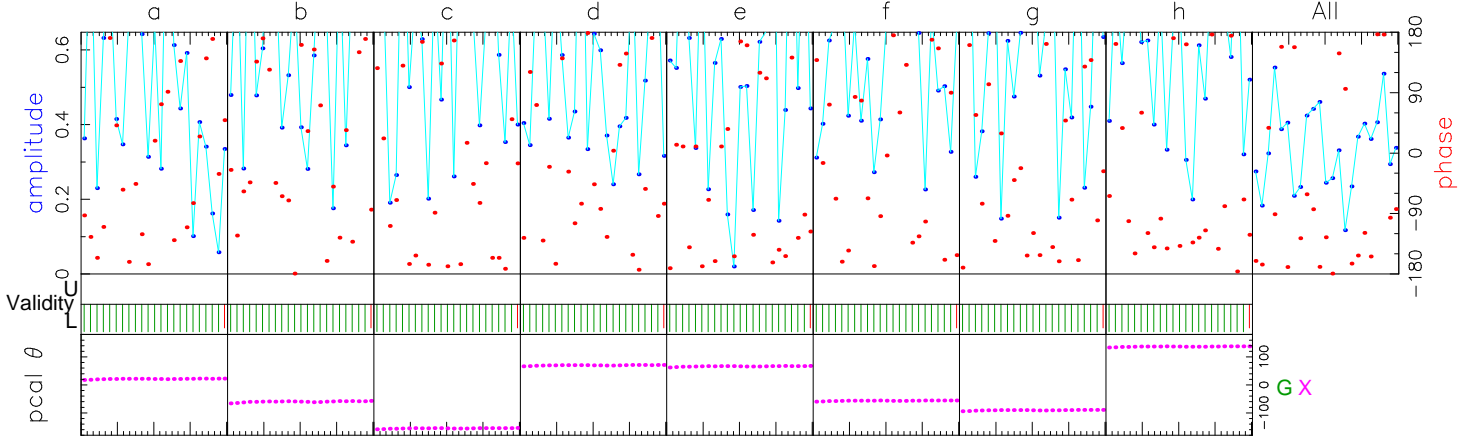


Fringe quality 0
 SNR 6.5
 Int time 239.918
 Amp 0.216
 Phase 571.9
 PFD 7.1e-03
 Delays (us)
 SBD -0.108374
 MBD 0.010958
 Fringe rate (Hz)
 -0.023110
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. c171b
 Exper # 16383
 Yr:day 2017:090
 Start 153000.00
 Stop 153400.00
 FRT 153200.00
 Corr/FF/build
 2017:208:133600
 2017:213:182156
 2017:170:130423
 RA & Dec (J2000)
 02h24m28.4282s
 +6°59'23.342"

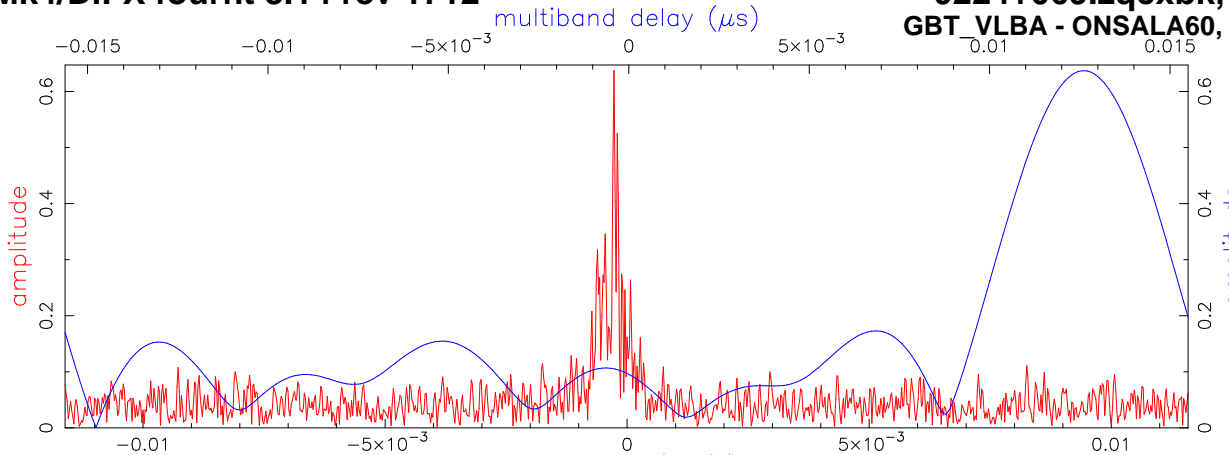
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



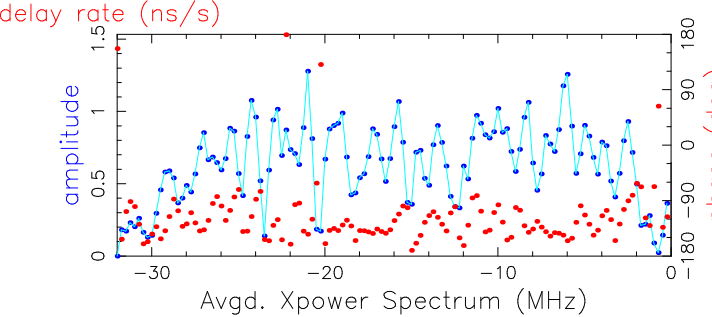
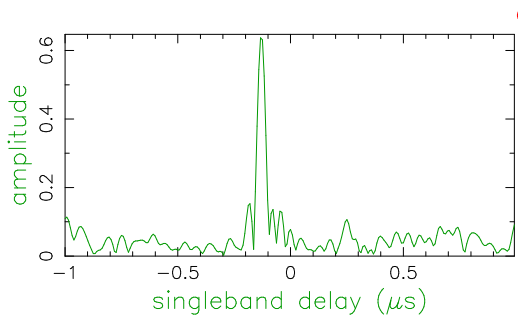
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-137.4	-144.9	-166.6	-123.8	-167.4	-177.3	-143.5	-141.9	Phase	-148.1
0.1	0.2	0.1	0.2	0.2	0.2	0.3	0.4	Ampl.	0.2
105.4	87.4	241.9	45.6	36.0	158.6	115.7	115.9	Sbd box	115.1
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G 0	0	0	0	0	0	0	0	PC freqs	
X -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X 1000	1000	1000	1000	1000	1000	1000	1000		
G W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
X W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	1.36623733069E+02		Apriori delay (usec)	1.36737774901E+02		Resid mbdelay (usec)	1.09582E-02	+/-	3.4E-04
Sband delay (usec)	1.36629401401E+02		Apriori clock (usec)	-1.3480362E+01		Resid sbdelay (usec)	-1.08374E-01	+/-	2.7E-03
Phase delay (usec)	1.36737770126E+02		Apriori clockrate (us/s)	2.5959009E-07		Resid phdelay (usec)	-4.77500E-06	+/-	5.7E-07
Delay rate (us/s)	1.48639000220E+00		Apriori rate (us/s)	1.48639027048E+00		Resid rate (us/s)	-2.68284E-07	+/-	4.1E-09
Total phase (deg)		906.7	Apriori accel (us/s/s)	-3.86545412541E-06		Resid phase (deg)	571.9	+/-	17.7

RMS Theor. Amplitude 0.216 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 59.9 42.5 Search (1024X32) 0.210 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 75.9 74.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 19.8 25.1 Inc. seg. avg. 0.266 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 42.6 43.8 Inc. frq. avg. 0.205 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 108.0 el 31.9 pa -48.5 X: az 225.1 el 31.9 pa 22.7 u,v (fr/asec) -8578.339 -1980.978 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GX..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GX.W.360.zqcxbk

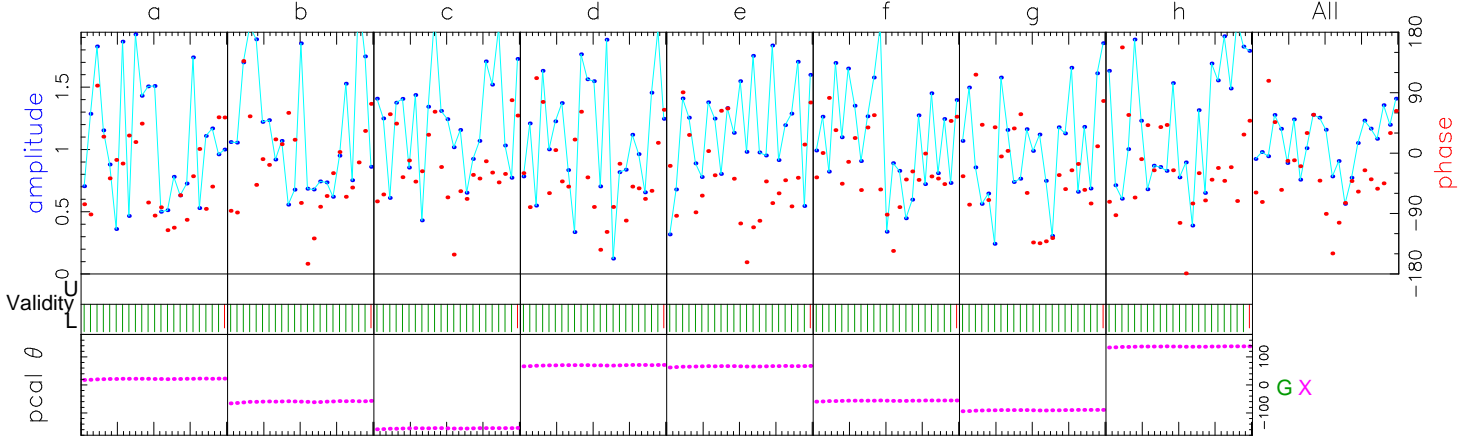


Fringe quality 9
 SNR 19.4
 Int time 239.918
 Amp 0.647
 Phase 873.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.129393
 MBD 0.012621
 Fringe rate (Hz)
 -0.023250
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



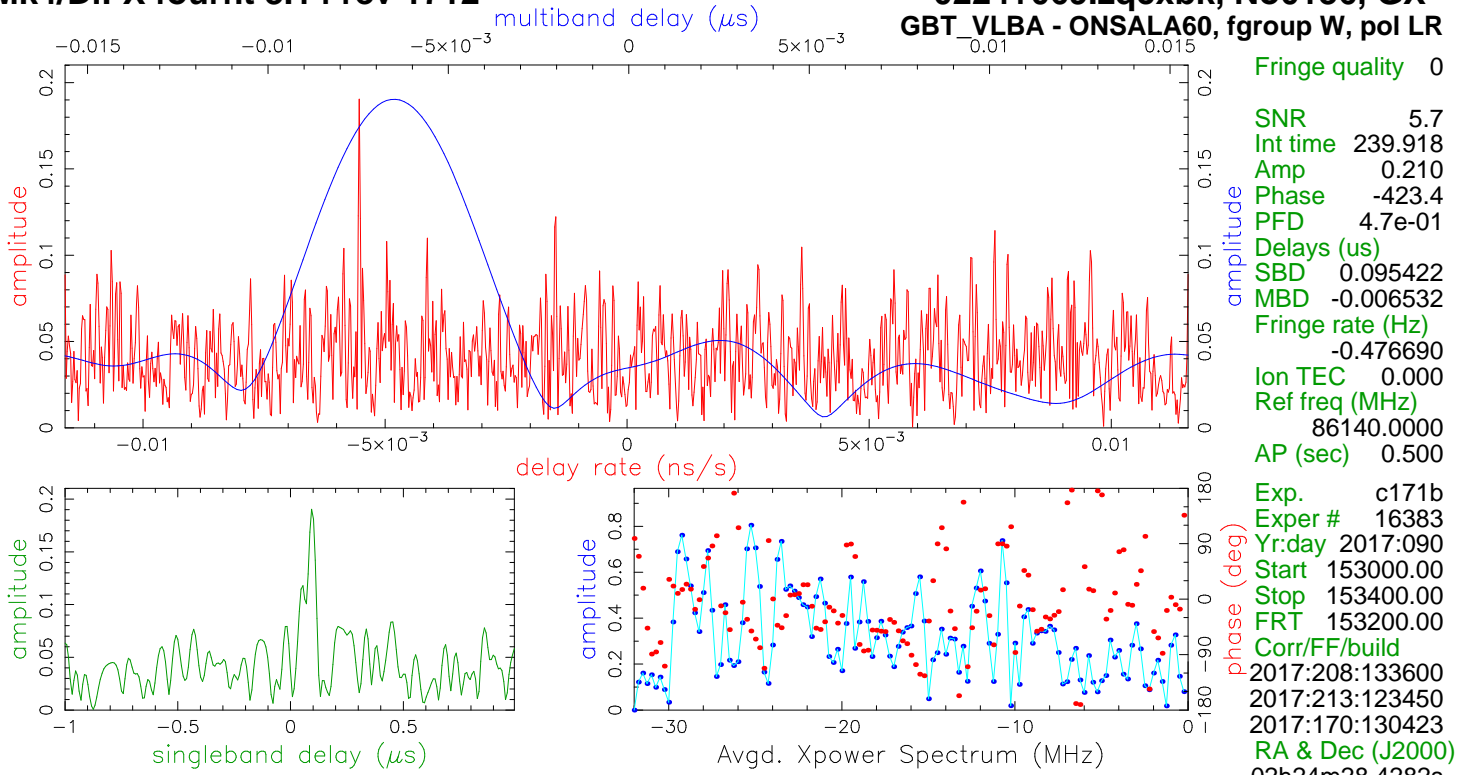
Exp. c171b
 Exper # 16383
 Yr:day 2017:090
 Start 153000.00
 Stop 153400.00
 FRT 153200.00
 Corr/FF/build
 2017:208:133600
 2017:213:123448
 2017:170:130423
 RA & Dec (J2000)
 02h24m28.4282s
 +6°59'23.342"

Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

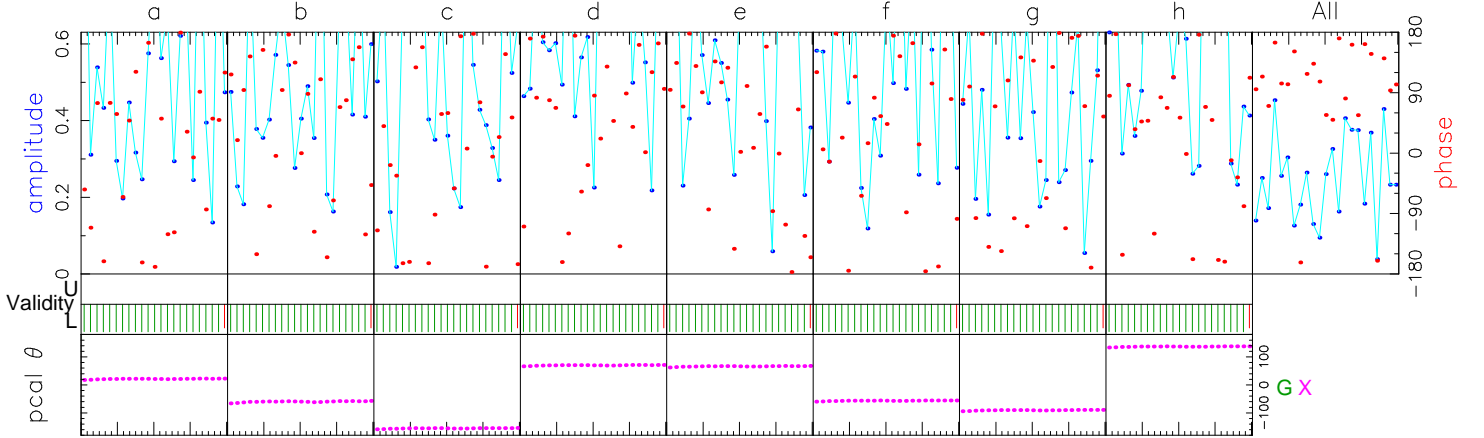


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-30.2	-21.4	-20.3	-35.4	-45.2	-11.8	-29.6	-28.3	Phase	-26.8
0.6	0.6	0.8	0.6	0.6	0.7	0.5	0.8	Ampl.	0.6
112.8	112.8	112.2	112.3	112.4	112.4	112.2	112.5	Sbd box	112.4
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G 0	0	0	0	0	0	0	0	PC freqs	
X -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X 1000	1000	1000	1000	1000	1000	1000	1000		
G W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
X W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	1.36594146131E+02		Apriori delay (usec)	1.36737774901E+02		Resid mbdelay (usec)	1.26212E-02	+/-	1.1E-04
Sband delay (usec)	1.36608382401E+02		Apriori clock (usec)	-1.3480362E+01		Resid sbdelay (usec)	-1.29393E-01	+/-	8.9E-04
Phase delay (usec)	1.36737774037E+02		Apriori clockrate (us/s)	2.5959009E-07		Resid phdelay (usec)	-8.63874E-07	+/-	1.9E-07
Delay rate (us/s)	1.48639000057E+00		Apriori rate (us/s)	1.48639027048E+00		Resid rate (us/s)	-2.69914E-07	+/-	1.4E-09
Total phase (deg)		1208.0	Apriori accel (us/s/s)	-3.86545412541E-06		Resid phase (deg)	873.2	+/-	5.9

ph/seg (deg) 58.4 14.2 Theor. Amplitude 0.647 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.6 24.7 Search (1024X32) 0.632 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 11.0 8.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 16.7 14.6 Inc. seg. avg. 1.028 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 G: az 108.0 el 31.9 pa -48.5 X: az 225.1 el 31.9 pa 22.7 u,v (fr/asec) -8578.339 -1980.978 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GX..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GX.W.93.zqcxbk

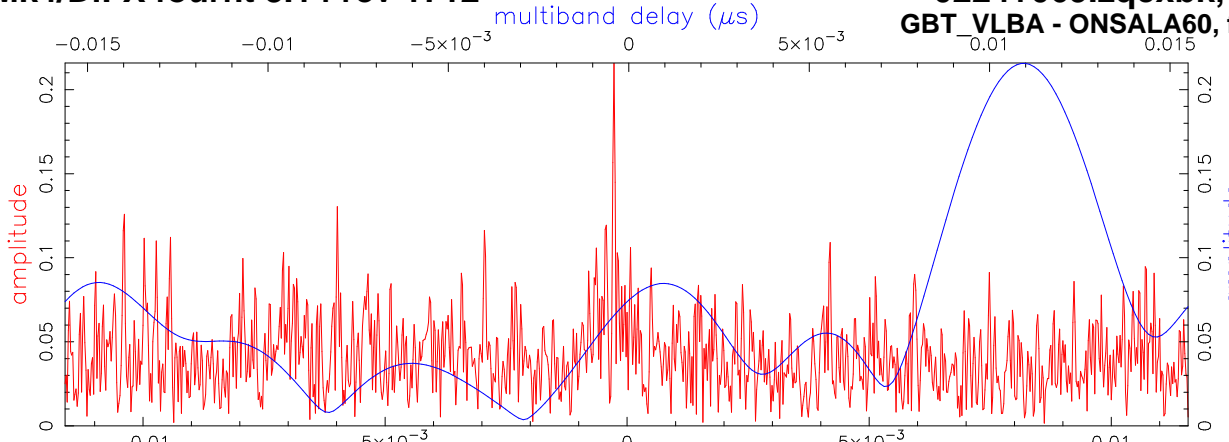


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

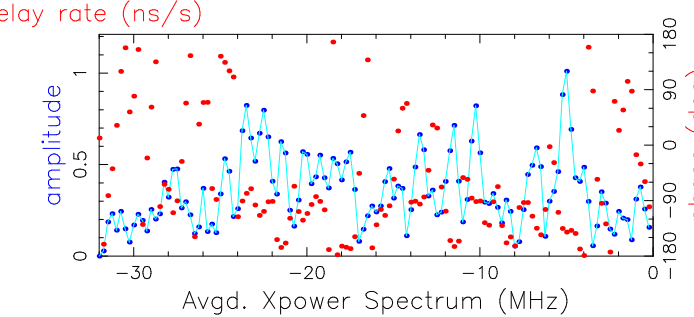
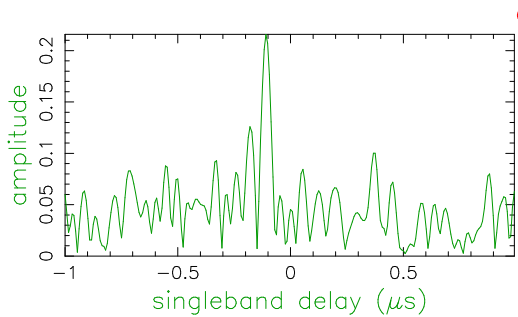


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	86412.00	All
91.9	120.7	137.2	106.8	105.0	130.7	143.4	91.9	116.6		116.6
0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.2		0.2
135.8	201.9	55.2	154.0	145.0	93.5	212.8	126.2	141.2		141.2
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		0/480
G	0	0	0	0	0	0	0	0		0
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		-1000
G:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		0:0
G:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		0:0
G	1000	1000	1000	1000	1000	1000	1000	1000		1000
X	1000	1000	1000	1000	1000	1000	1000	1000		1000
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		W07LL
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		W07LR
Group delay (usec)(sbd)	1.36824993394E+02		Apriori delay (usec)	1.36737774901E+02	Resid mbdelay (usec)	-6.53151E-03	+/-	3.8E-04		
Sband delay (usec)	1.36833196401E+02		Apriori clock (usec)	-1.3480362E+01	Resid sbdelay (usec)	9.54215E-02	+/-	3.0E-03		
Phase delay (usec)	1.36737778661E+02		Apriori clockrate (us/s)	2.5959009E-07	Resid phdelay (usec)	3.76011E-06	+/-	6.5E-07		
Delay rate (us/s)	1.48638473658E+00		Apriori rate (us/s)	1.48639027048E+00	Resid rate (us/s)	-5.53390E-06	+/-	4.7E-09		
Total phase (deg)		-448.6	Apriori accel (us/s/s)	-3.86545412541E-06	Resid phase (deg)	-423.4	+/-	20.0		

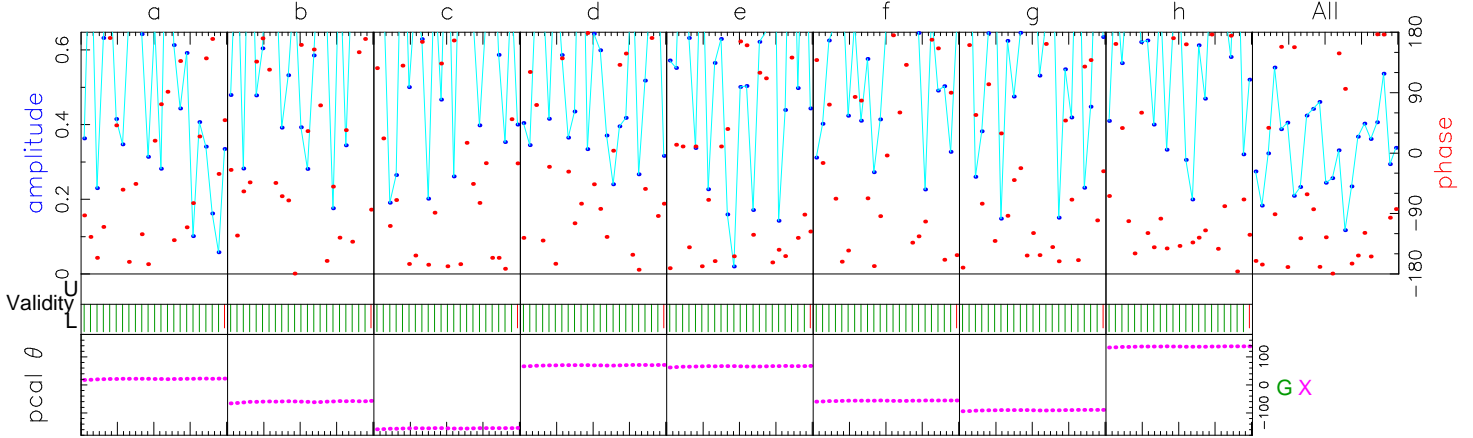
ph/seg (deg) 43.1 48.0 Search (1024X32) 0.187 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 66.4 83.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 21.6 28.3 Inc. seg. avg. 0.204 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 25.5 49.4 Inc. frq. avg. 0.196 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 G: az 108.0 el 31.9 pa -48.5 X: az 225.1 el 31.9 pa 22.7 u,v (fr/asec) -8578.339 -1980.978 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GX..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GX.W.95.zqcxbk simultaneous interpolator



Fringe quality 0
 SNR 6.5
 Int time 239.918
 Amp 0.216
 Phase 571.9
 PFD 7.1e-03
 Delays (us)
 SBD -0.108374
 MBD 0.010958
 Fringe rate (Hz)
 -0.023110
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500
 Exp. c171b
 Exper # 16383
 Yr:day 2017:090
 Start 153000.00
 Stop 153400.00
 FRT 153200.00
 Corr/FF/build
 2017:208:133600
 2017:213:123451
 2017:170:130423
 RA & Dec (J2000)
 02h24m28.4282s
 +6°59'23.342"

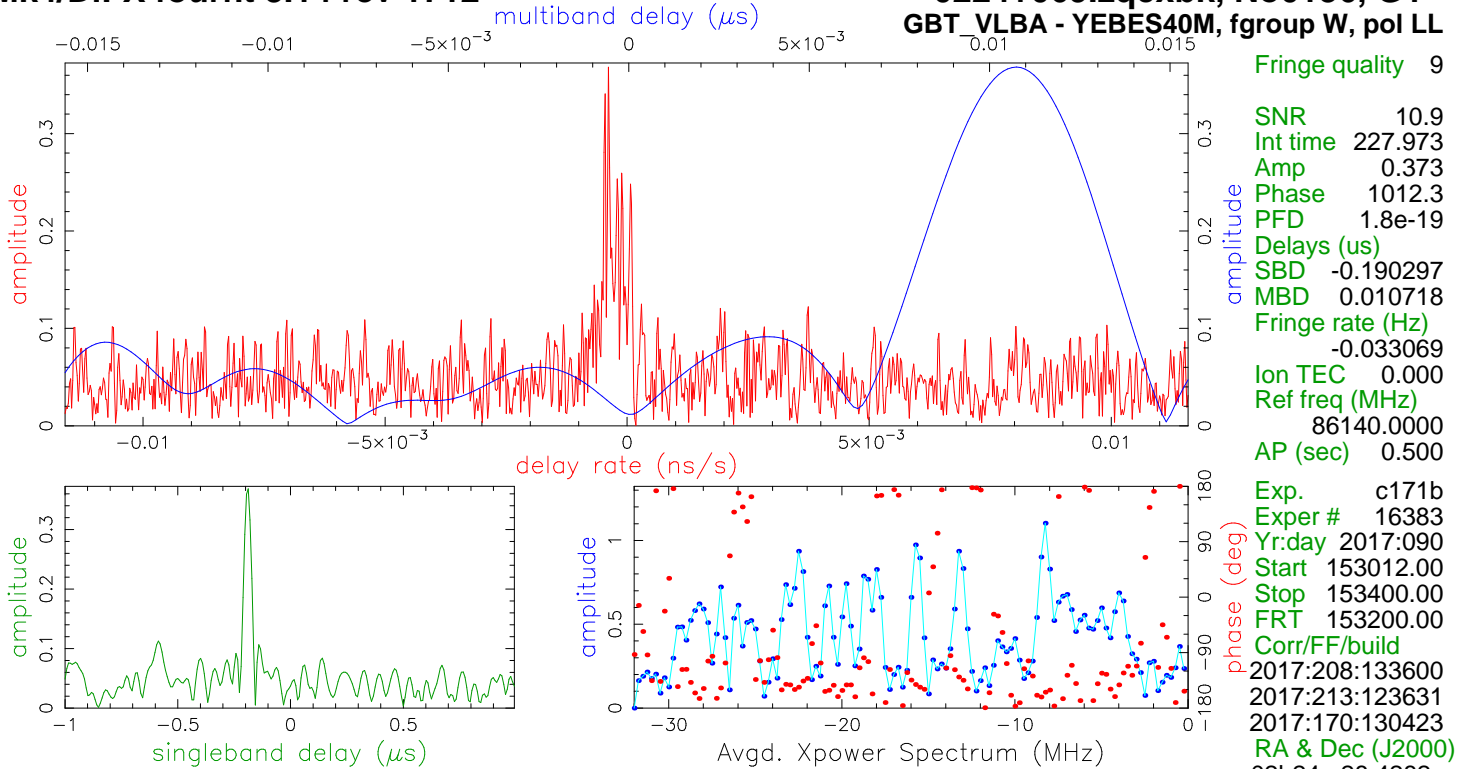


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

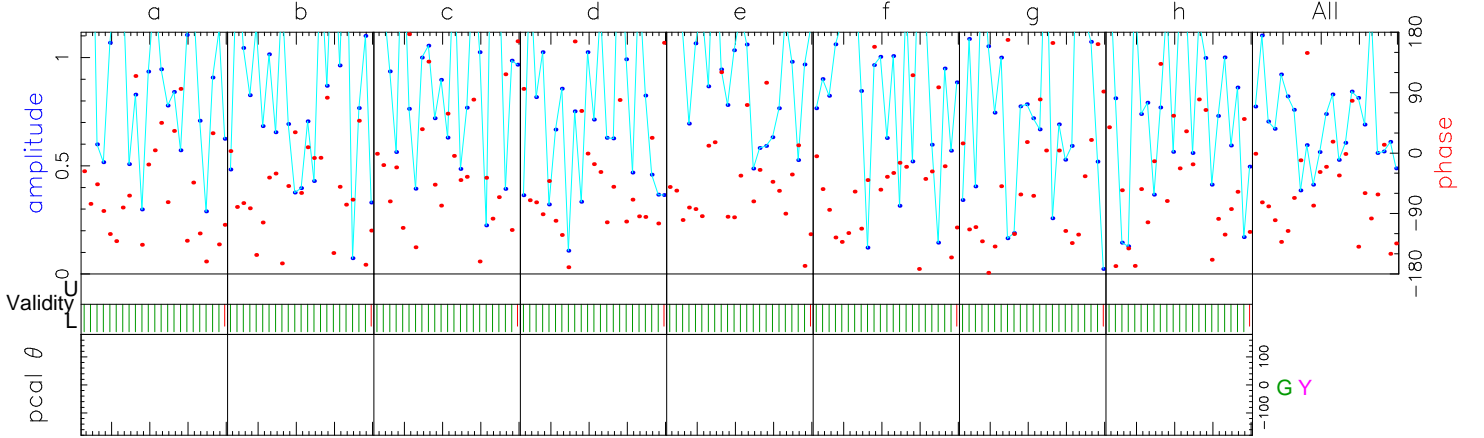


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-137.4	-144.9	-166.6	-123.8	-167.4	-177.3	-143.5	-141.9	Phase	-148.1
	0.1	0.2	0.1	0.2	0.2	0.2	0.3	0.4	Ampl.	0.2
	105.4	87.4	241.9	45.6	36.0	158.6	115.7	115.9	Sbd box	115.1
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.36623733069E+02		Apriori delay (usec)		1.36737774901E+02		Resid mbdelay (usec)		1.09582E-02	+/- 3.4E-04
Sband delay (usec)	1.36629401401E+02		Apriori clock (usec)		-1.3480362E+01		Resid sbdelay (usec)		-1.08374E-01	+/- 2.7E-03
Phase delay (usec)	1.36737770126E+02		Apriori clockrate (us/s)		2.5959009E-07		Resid phdelay (usec)		-4.77500E-06	+/- 5.7E-07
Delay rate (us/s)	1.48639000220E+00		Apriori rate (us/s)		1.48639027048E+00		Resid rate (us/s)		-2.68284E-07	+/- 4.1E-09
Total phase (deg)	906.7		Apriori accel (us/s/s)		-3.86545412541E-06		Resid phase (deg)		571.9	+/- 17.7

RMS Theor. Amplitude 0.216 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 59.9 42.5 Search (1024X32) 0.210 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 75.9 74.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 19.8 25.1 Inc. seg. avg. 0.266 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 42.6 43.8 Inc. frq. avg. 0.205 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 G: az 108.0 el 31.9 pa -48.5 X: az 225.1 el 31.9 pa 22.7 u,v (fr/asec) -8578.339 -1980.978 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GX..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GX.W.96.zqcxbk

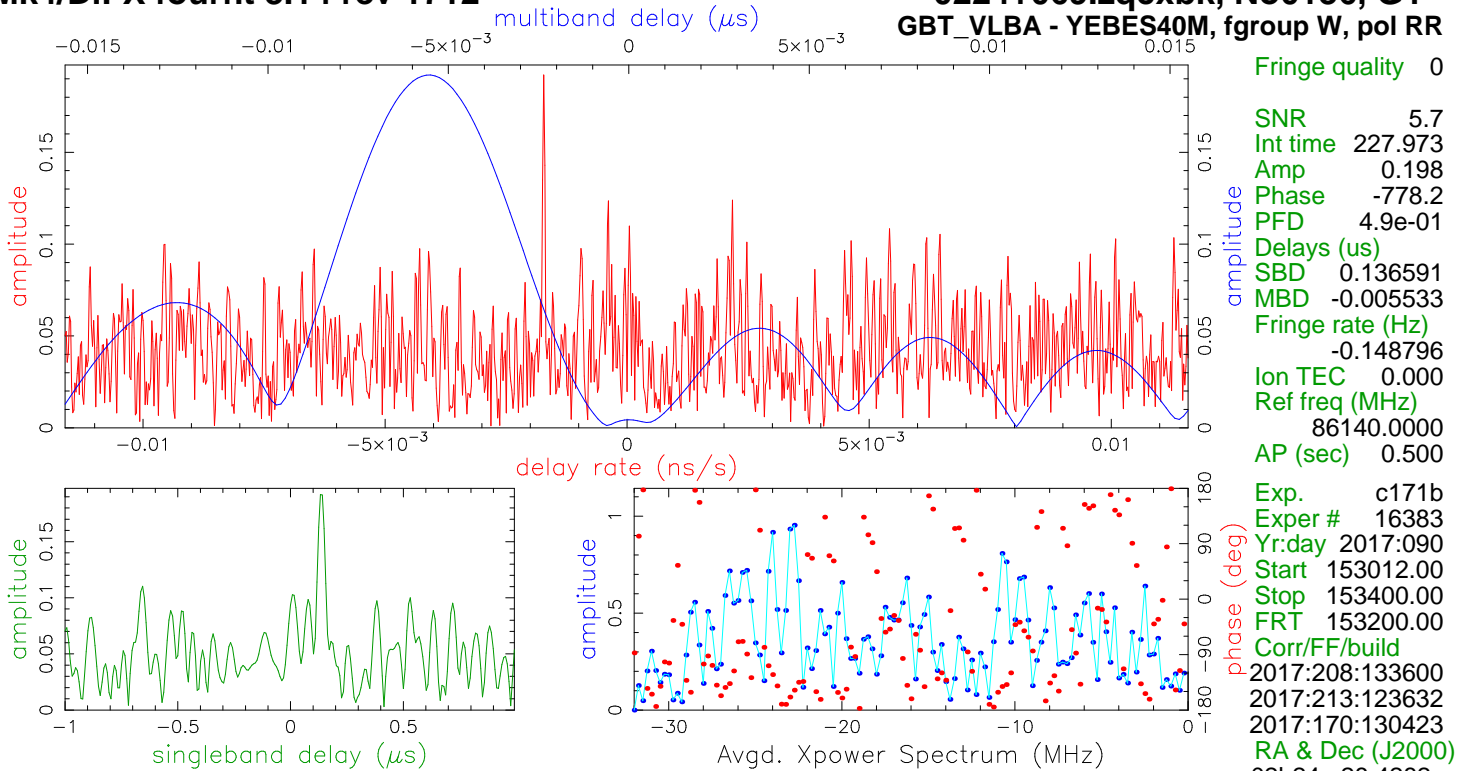


Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-68.6	-73.0	-57.9	-69.7	-58.7	-77.6	-80.2	-42.4	Phase	-67.7
	0.5	0.4	0.3	0.4	0.5	0.3	0.3	0.2	Ampl.	0.4
	104.9	104.7	104.9	104.1	104.9	104.7	104.3	25.5	Sbd box	104.6
U/L	0/456	0/456	0/456	0/456	0/456	0/456	0/456	0/456	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		-5.17030528610E+03		Apriori delay (usec)		-5.17012850369E+03		Resid mbdelay (usec)	1.07176E-02	+/- 2.0E-04
Sband delay (usec)		-5.17031880069E+03		Apriori clock (usec)		-1.4857893E+01		Resid sbdelay (usec)	-1.90297E-01	+/- 1.6E-03
Phase delay (usec)		-5.17012850587E+03		Apriori clockrate (us/s)		9.7014573E-08		Resid phdelay (usec)	-2.18156E-06	+/- 3.4E-07
Delay rate (us/s)		1.43056921125E+00		Apriori rate (us/s)		1.43056959515E+00		Resid rate (us/s)	-3.83897E-07	+/- 2.6E-09
Total phase (deg)			901.5	Apriori accel (us/s/s)		2.70219639333E-05		Resid phase (deg)	1012.3	+/- 10.5

ph/seg (deg)	RMS	Theor.	Amplitude	0.373 +/- 0.034	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	65.1	25.3	Search (1024X32)	0.366	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
ph/frq (deg)	104.2	44.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
amp/frq (%)	13.6	14.9	Inc. seg. avg.	0.644	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
	27.9	26.0	Inc. frq. avg.	0.362	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			



Fringe quality 0

SNR 5.7

Int time 227.973

Amp 0.198

Phase -778.2

PFD 4.9e-01

Delays (us)

SBD 0.136591

MBD -0.005533

Fringe rate (Hz)

-0.148796

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.500

Exp. c171b

Exper # 16383

Yr:day 2017:090

Start 153012.00

Stop 153400.00

FRT 153200.00

Corr/FF/build

2017:208:133600

2017:213:123632

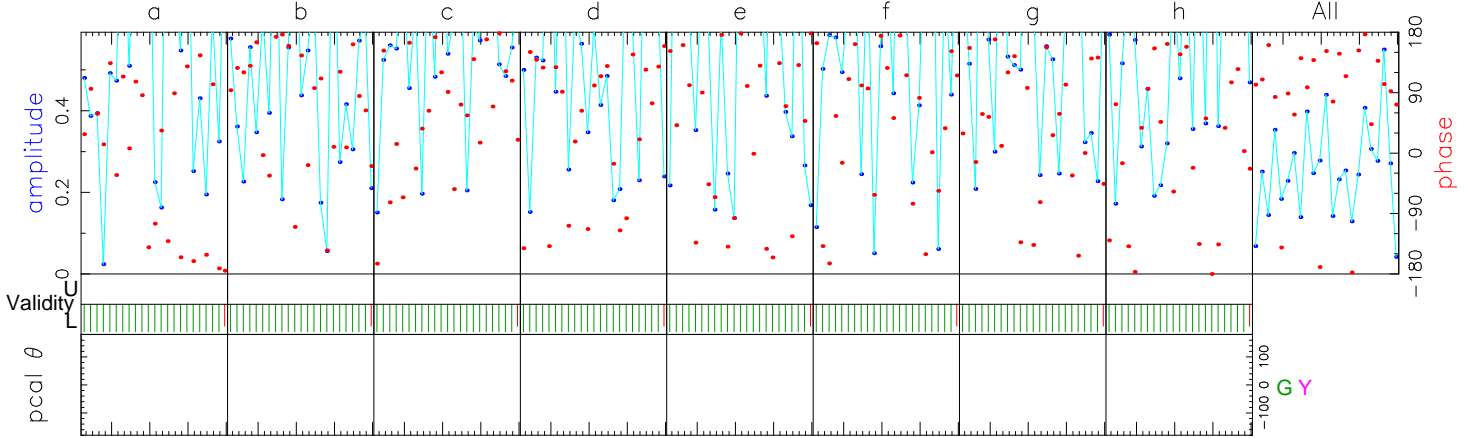
2017:170:130423

RA & Dec (J2000)

02h24m28.4282s

+6°59'23.342"

Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	136.1	101.7	96.5	131.1	138.4	124.9	80.2	153.1	Phase	121.8
	0.3	0.1	0.2	0.2	0.3	0.2	0.2	0.1	Ampl.	0.2
	138.6	196.3	209.2	71.1	40.2	202.8	167.7	251.9	Sbd box	146.5
U/L	0/456	0/456	0/456	0/456	0/456	0/456	0/456	0/456	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.16997778680E+03		Apriori delay (usec)		-5.17012850369E+03		Resid mbdelay (usec)		-5.53311E-03	+/- 3.8E-04
Sband delay (usec)	-5.16999191219E+03		Apriori clock (usec)		-1.4857893E+01		Resid sbdelay (usec)		1.36591E-01	+/- 3.0E-03
Phase delay (usec)	-5.17012849976E+03		Apriori clockrate (us/s)		9.7014573E-08		Resid phdelay (usec)		3.92618E-06	+/- 6.5E-07
Delay rate (us/s)	1.43056786777E+00		Apriori rate (us/s)		1.43056959515E+00		Resid rate (us/s)		-1.72738E-06	+/- 4.9E-09
Total phase (deg)	-889.1		Apriori accel (us/s/s)		2.70219639333E-05		Resid phase (deg)		-778.2	+/- 20.1

RMS Theor. Amplitude 0.198 +/- 0.035 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 44.5 48.1 Search (1024X32) 0.184 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

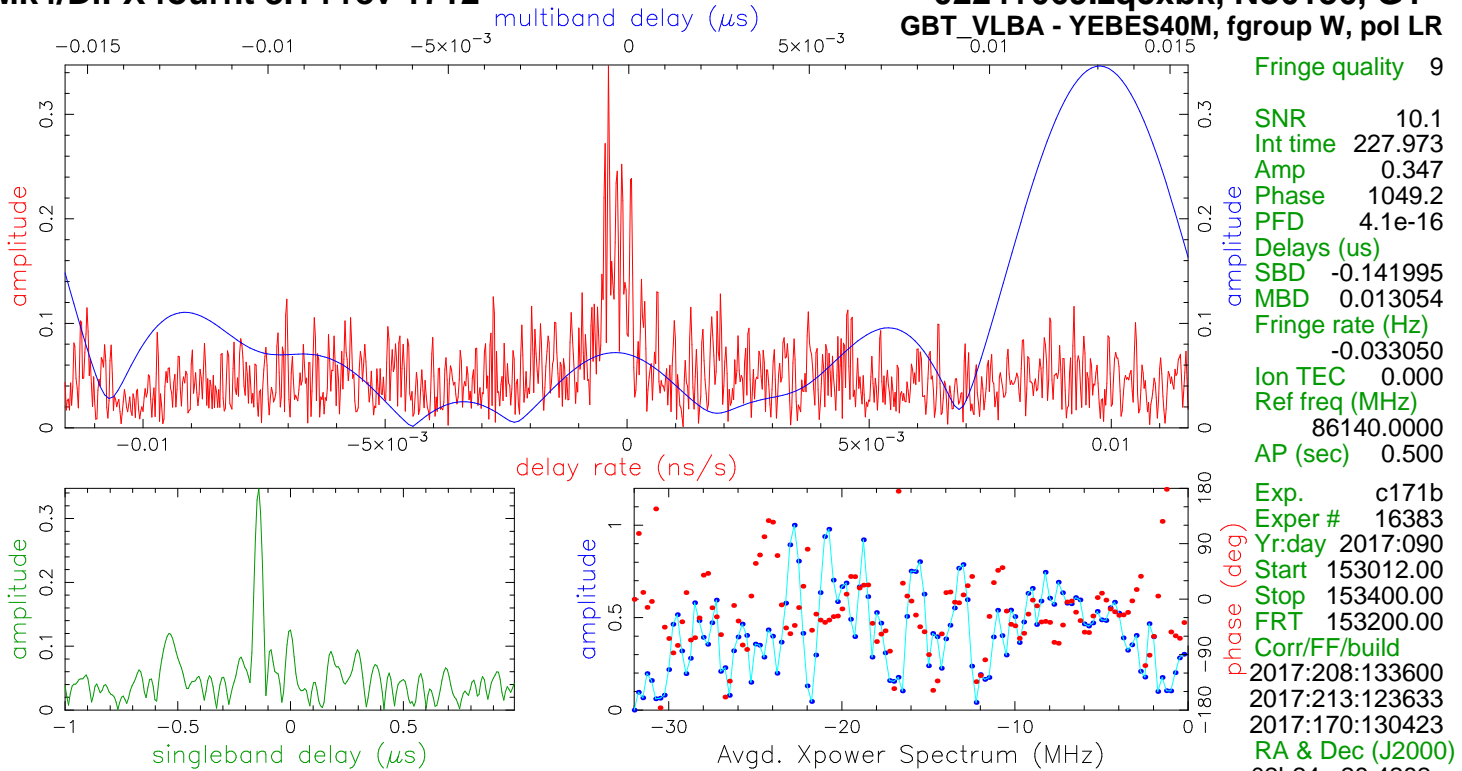
amp/seg (%) 67.6 83.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

ph/frq (deg) 26.9 28.4 Inc. seg. avg. 0.192 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

amp/frq (%) 26.7 49.5 Inc. frq. avg. 0.185 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

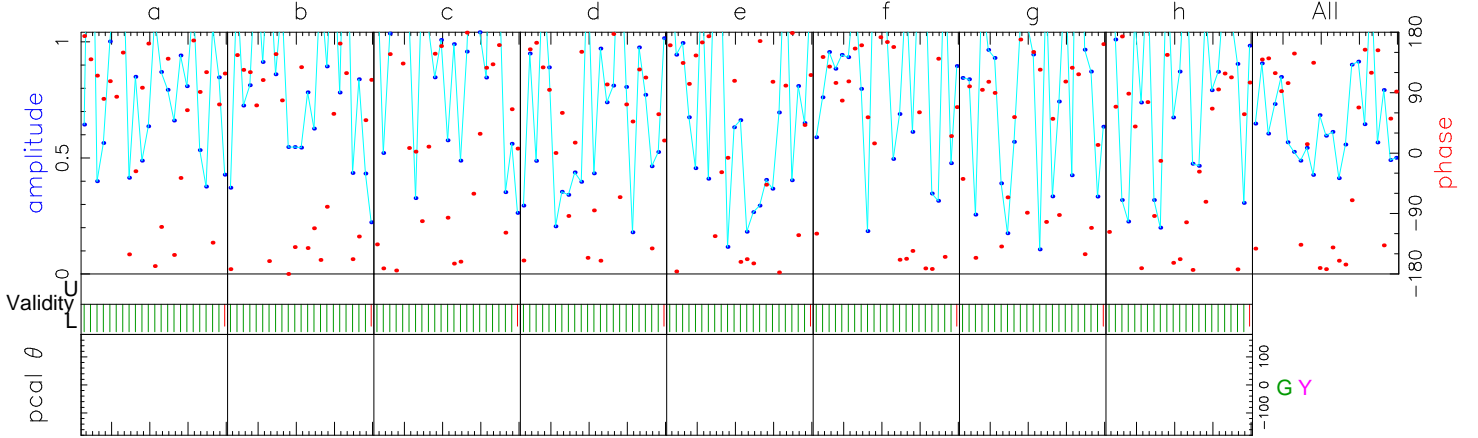
G: az 108.0 el 31.9 pa -48.5 Y: az 216.8 el 51.1 pa 27.7 u,v (fr/asec) -8236.956 15.697 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GY..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GY.W.194.zqcxbk



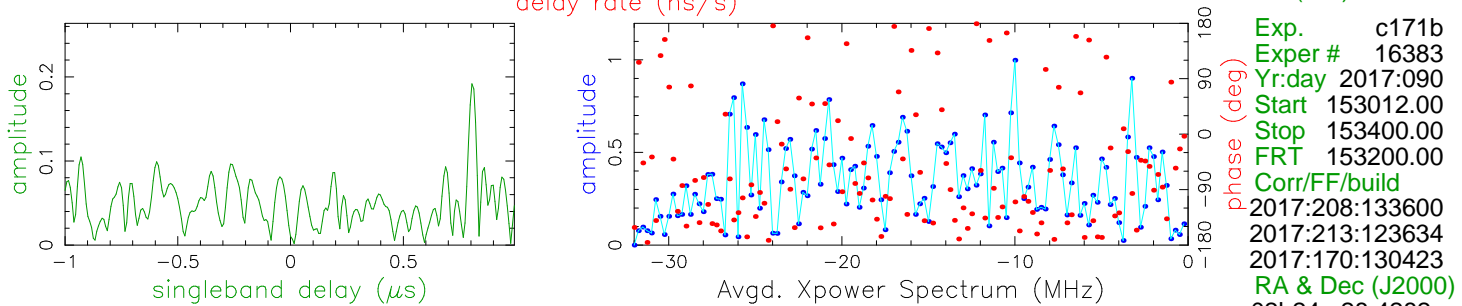
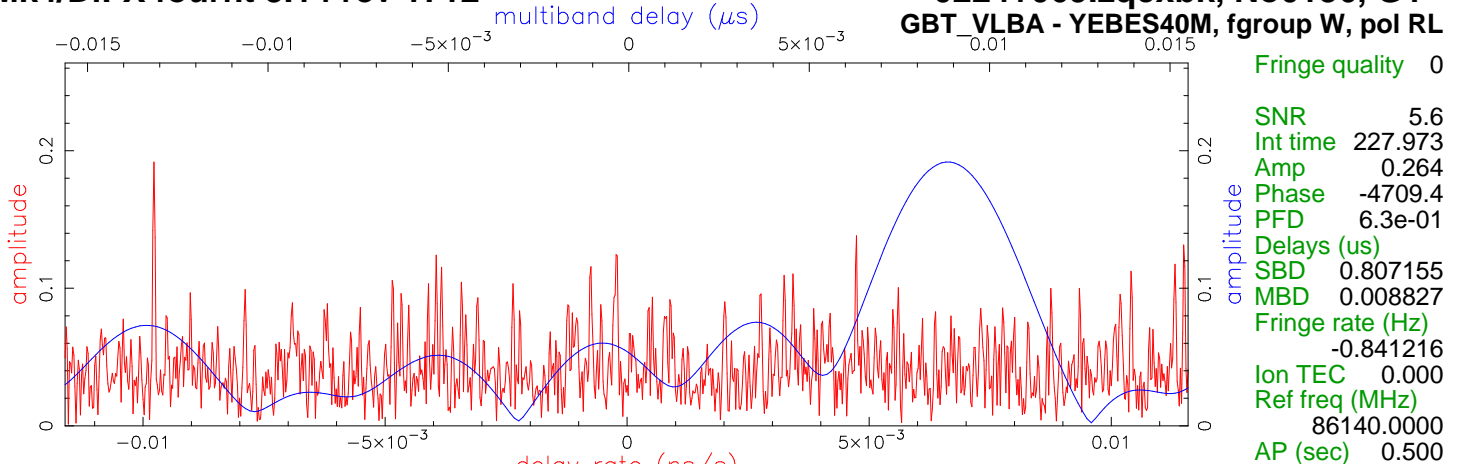
Fringe quality 9
SNR 10.1
Int time 227.973
Amp 0.347
Phase 1049.2
PFD 4.1e-16
Delays (us)
SBD -0.141995
MBD 0.013054
Fringe rate (Hz)
-0.033050
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500
Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 153012.00
Stop 153400.00
FRT 153200.00
Corr/FF/build
2017:208:133600
2017:213:123633
2017:170:130423
RA & Dec (J2000)
02h24m28.4282s
+6°59'23.342"

Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec

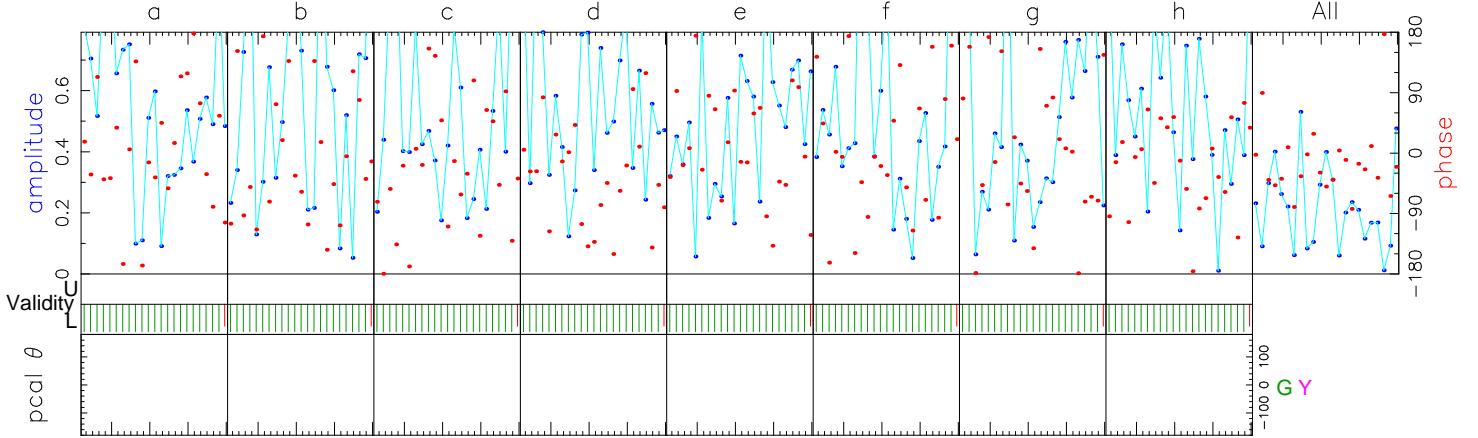


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	140.2	146.5	171.6	140.6	158.5	148.7	142.2	144.4	Phase	149.2
	0.4	0.5	0.3	0.2	0.4	0.5	0.3	0.2	Ampl.	0.3
	110.9	110.6	110.1	24.7	111.0	110.8	190.6	73.2	Sbd box	110.8
U/L	0/456	0/456	0/456	0/456	0/456	0/456	0/456	0/456	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.17027170003E+03		Apriori delay (usec)		-5.17012850369E+03		Resid mbdelay (usec)		1.30537E-02	+/- 2.1E-04
Sband delay (usec)	-5.17027049869E+03		Apriori clock (usec)		-1.4857893E+01		Resid sbdelay (usec)		-1.41995E-01	+/- 1.7E-03
Phase delay (usec)	-5.17012849888E+03		Apriori clockrate (us/s)		9.7014573E-08		Resid phdelay (usec)		4.81204E-06	+/- 3.6E-07
Delay rate (us/s)	1.43056921147E+00		Apriori rate (us/s)		1.43056959515E+00		Resid rate (us/s)		-3.83684E-07	+/- 2.8E-09
Total phase (deg)	938.4		Apriori accel (us/s/s)		2.70219639333E-05		Resid phase (deg)		1049.2	+/- 11.3

RMS Theor. Amplitude 0.347 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 63.8 27.1 Search (1024X32) 0.337 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 107.7 47.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 11.7 16.0 Inc. seg. avg. 0.598 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 25.5 27.9 Inc. frq. avg. 0.338 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 G: az 108.0 el 31.9 pa -48.5 Y: az 216.8 el 51.1 pa 27.7 u,v (fr/asec) -8236.956 15.697 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GY..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GY.W.195.zqcxbk



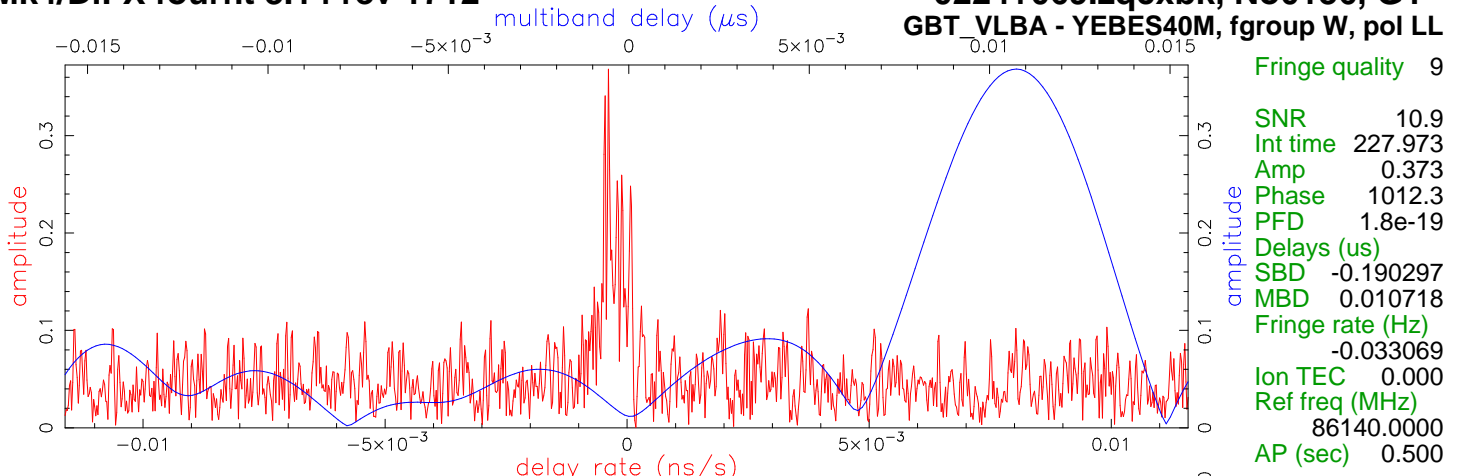
Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-3.2	-35.4	-64.4	-42.1	-7.1	-31.0	-46.8	-18.4	Phase	-29.4
	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.4	Ampl.	0.2
	136.4	11.5	217.5	38.5	32.0	98.2	51.3	99.9	Sbd box	232.3
U/L	0/456	0/456	0/456	0/456	0/456	0/456	0/456	0/456	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.16930717642E+03		Apriori delay (usec)		-5.17012850369E+03		Resid mbdelay (usec)		8.82727E-03	+/- 3.8E-04
Sband delay (usec)	-5.16932134869E+03		Apriori clock (usec)		-1.4857893E+01		Resid sbdelay (usec)		8.07155E-01	+/- 3.1E-03
Phase delay (usec)	-5.17012850464E+03		Apriori clockrate (us/s)		9.7014573E-08		Resid phdelay (usec)		-9.47720E-07	+/- 6.5E-07
Delay rate (us/s)	1.43055982947E+00		Apriori rate (us/s)		1.43056959515E+00		Resid rate (us/s)		-9.76568E-06	+/- 5.0E-09
Total phase (deg)			Apriori accel (us/s/s)		2.70219639333E-05		Resid phase (deg)		-4709.4	+/- 20.3

RMS Theor. Amplitude 0.264 +/- 0.047 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 49.2 48.6 Search (1024X32) 0.185 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 70.3 84.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 22.5 28.7 Inc. seg. avg. 0.217 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 29.0 50.1 Inc. frq. avg. 0.246 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 108.0 el 31.9 pa -48.5 Y: az 216.8 el 51.1 pa 27.7 u,v (fr/asec) -8236.956 15.697 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GY..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GY.W.196.zqcxbk



Fringe quality 9

SNR 10.9

Int time 227.973

Amp 0.373

Phase 1012.3

PFD 1.8e-19

Delays (us)

SBD -0.190297

MBD 0.010718

Fringe rate (Hz)

-0.033069

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.500

Exp. c171b

Exper # 16383

Yr:day 2017:090

Start 153012.00

Stop 153400.00

FRT 153200.00

Corr/FF/build

2017:208:133600

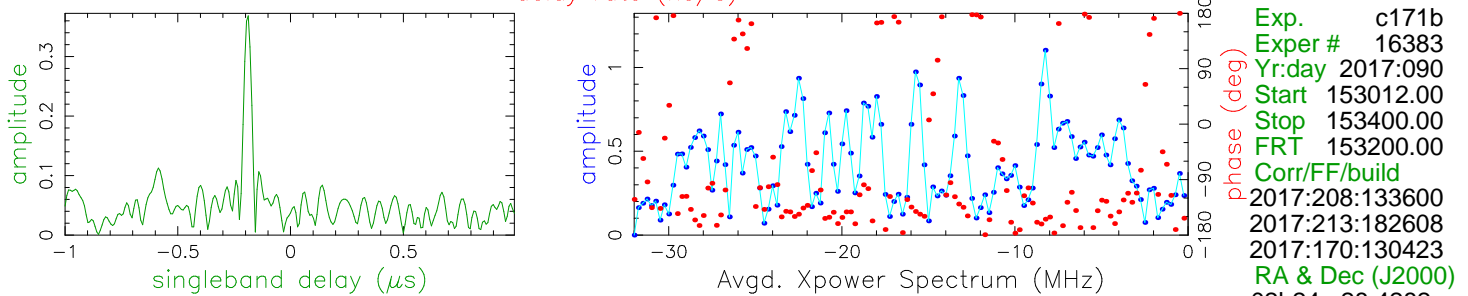
2017:213:182608

2017:170:130423

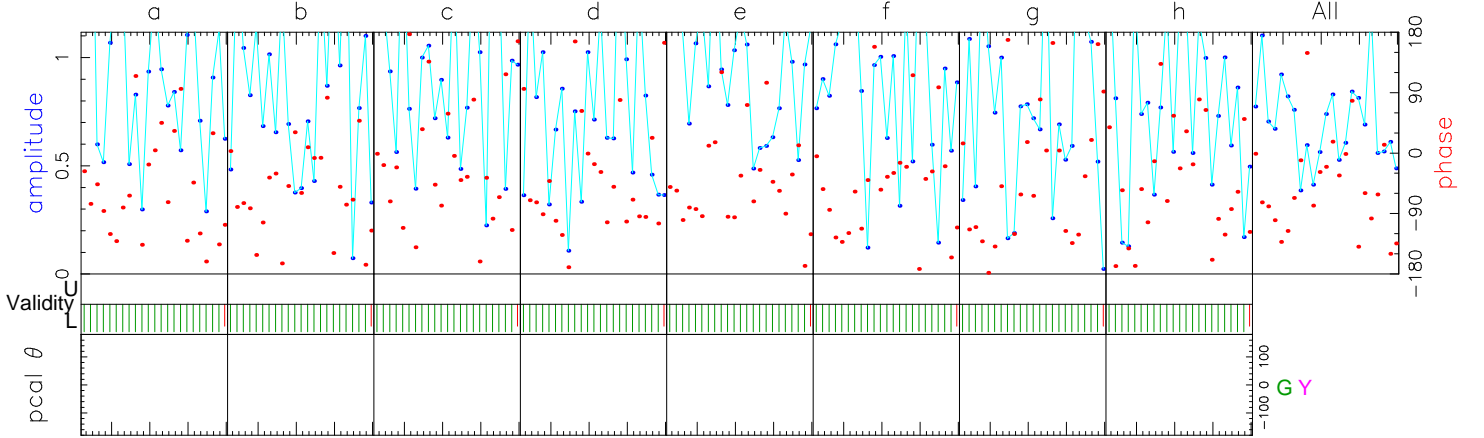
RA & Dec (J2000)

02h24m28.4282s

+6°59'23.342"



Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-68.6	-73.0	-57.9	-69.7	-58.7	-77.6	-80.2	-42.4	Phase	-67.7
	0.5	0.4	0.3	0.4	0.5	0.3	0.2	0.2	Ampl.	0.4
	104.9	104.7	104.9	104.1	104.9	104.7	104.3	25.5	Sbd box	104.6
U/L	0/456	0/456	0/456	0/456	0/456	0/456	0/456	0/456	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.17030528610E+03		Apriori delay (usec)		-5.17012850369E+03		Resid mbdelay (usec)		1.07176E-02	+/- 2.0E-04
Sband delay (usec)	-5.17031880069E+03		Apriori clock (usec)		-1.4857893E+01		Resid sbdelay (usec)		-1.90297E-01	+/- 1.6E-03
Phase delay (usec)	-5.17012850587E+03		Apriori clockrate (us/s)		9.7014573E-08		Resid phdelay (usec)		-2.18156E-06	+/- 3.4E-07
Delay rate (us/s)	1.43056921125E+00		Apriori rate (us/s)		1.43056959515E+00		Resid rate (us/s)		-3.83897E-07	+/- 2.6E-09
Total phase (deg)	901.5		Apriori accel (us/s/s)		2.70219639333E-05		Resid phase (deg)		1012.3	+/- 10.5

RMS Theor. Amplitude 0.373 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 65.1 25.3 Search (1024X32) 0.366 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

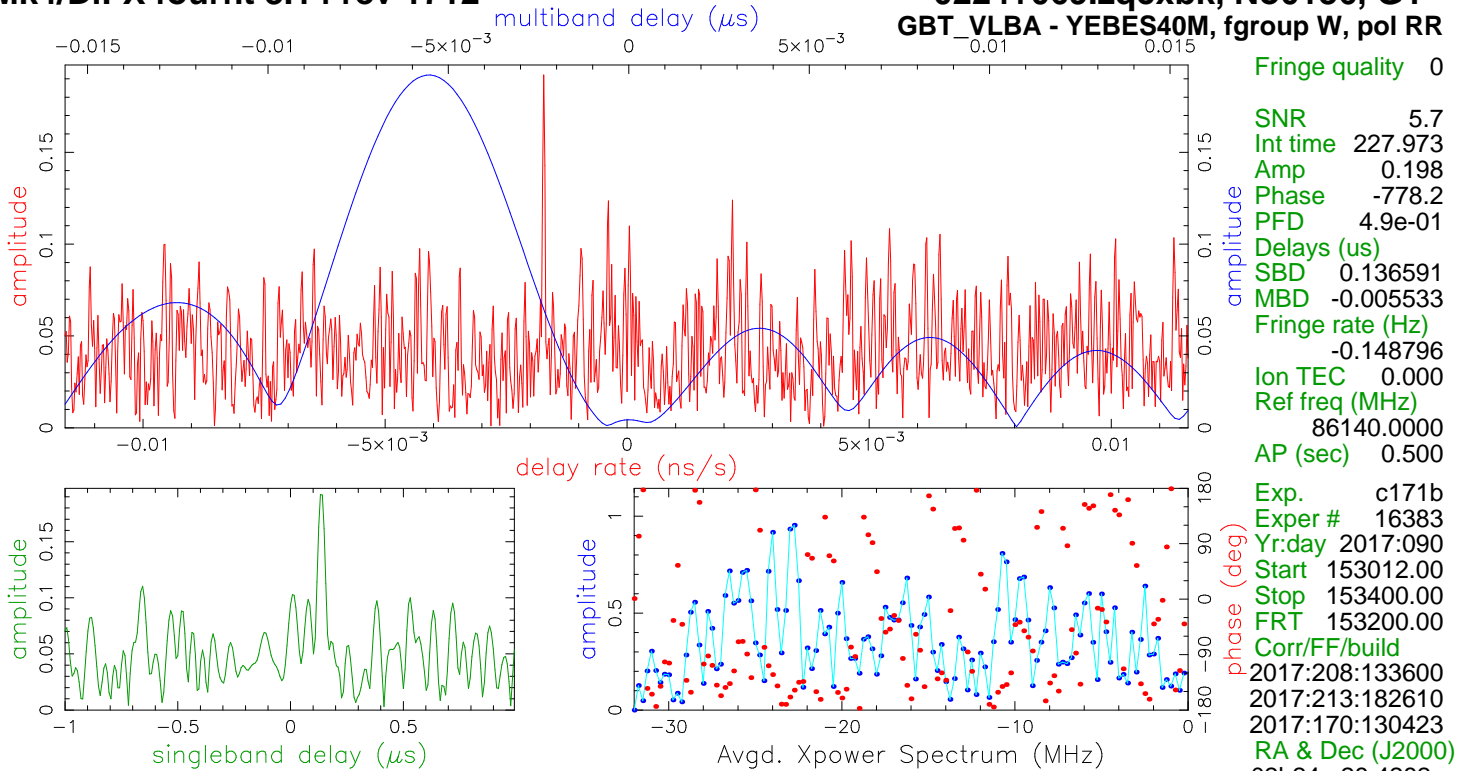
amp/seg (%) 104.2 44.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

ph/frq (deg) 13.6 14.9 Inc. seg. avg. 0.644 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

amp/frq (%) 27.9 26.0 Inc. frq. avg. 0.362 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 108.0 el 31.9 pa -48.5 Y: az 216.8 el 51.1 pa 27.7 u,v (fr/asec) -8236.956 15.697 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GY..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GY.W.457.zqcxbk



Fringe quality 0

SNR 5.7

Int time 227.973

Amp 0.198

Phase -778.2

PFD 4.9e-01

Delays (us)

SBD 0.136591

MBD -0.005533

Fringe rate (Hz)

-0.148796

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.500

Exp. c171b

Exper # 16383

Yr:day 2017:090

Start 153012.00

Stop 153400.00

FRT 153200.00

Corr/FF/build

2017:208:133600

2017:213:182610

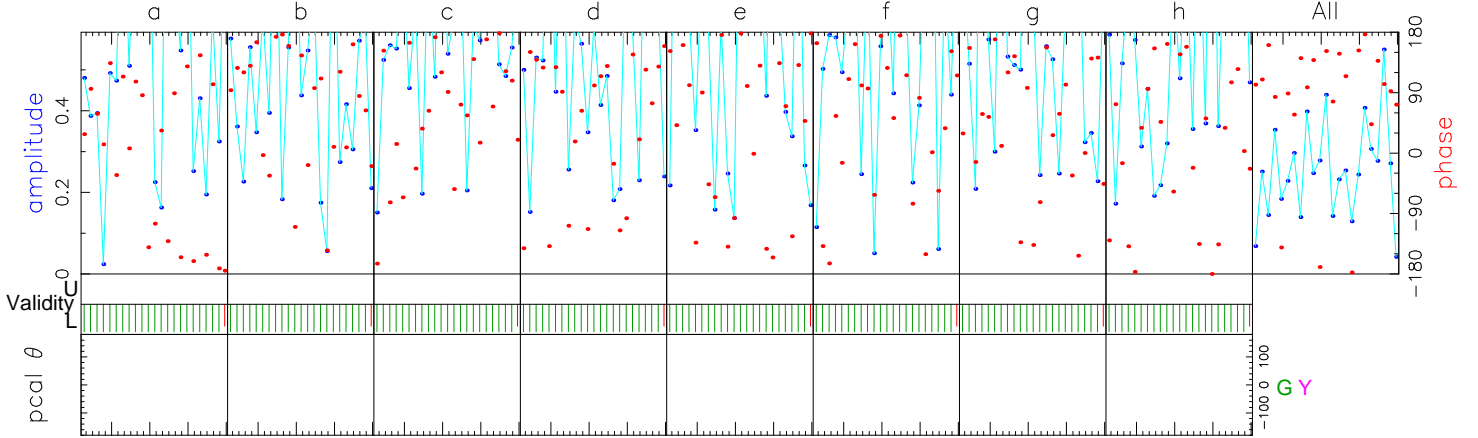
2017:170:130423

RA & Dec (J2000)

02h24m28.4282s

+6°59'23.342"

Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	136.1	101.7	96.5	131.1	138.4	124.9	80.2	153.1	Phase	121.8
	0.3	0.1	0.2	0.2	0.3	0.2	0.2	0.1	Ampl.	0.2
	138.6	196.3	209.2	71.1	40.2	202.8	167.7	251.9	Sbd box	146.5
U/L	0/456	0/456	0/456	0/456	0/456	0/456	0/456	0/456	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.16997778680E+03		Apriori delay (usec)		-5.17012850369E+03		Resid mbdelay (usec)		-5.53311E-03	+/- 3.8E-04
Sband delay (usec)	-5.16999191219E+03		Apriori clock (usec)		-1.4857893E+01		Resid sbdelay (usec)		1.36591E-01	+/- 3.0E-03
Phase delay (usec)	-5.17012849976E+03		Apriori clockrate (us/s)		9.7014573E-08		Resid phdelay (usec)		3.92618E-06	+/- 6.5E-07
Delay rate (us/s)	1.43056786777E+00		Apriori rate (us/s)		1.43056959515E+00		Resid rate (us/s)		-1.72738E-06	+/- 4.9E-09
Total phase (deg)	-889.1		Apriori accel (us/s/s)		2.70219639333E-05		Resid phase (deg)		-778.2	+/- 20.1

RMS Theor. Amplitude 0.198 +/- 0.035 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 44.5 48.1 Search (1024X32) 0.184 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

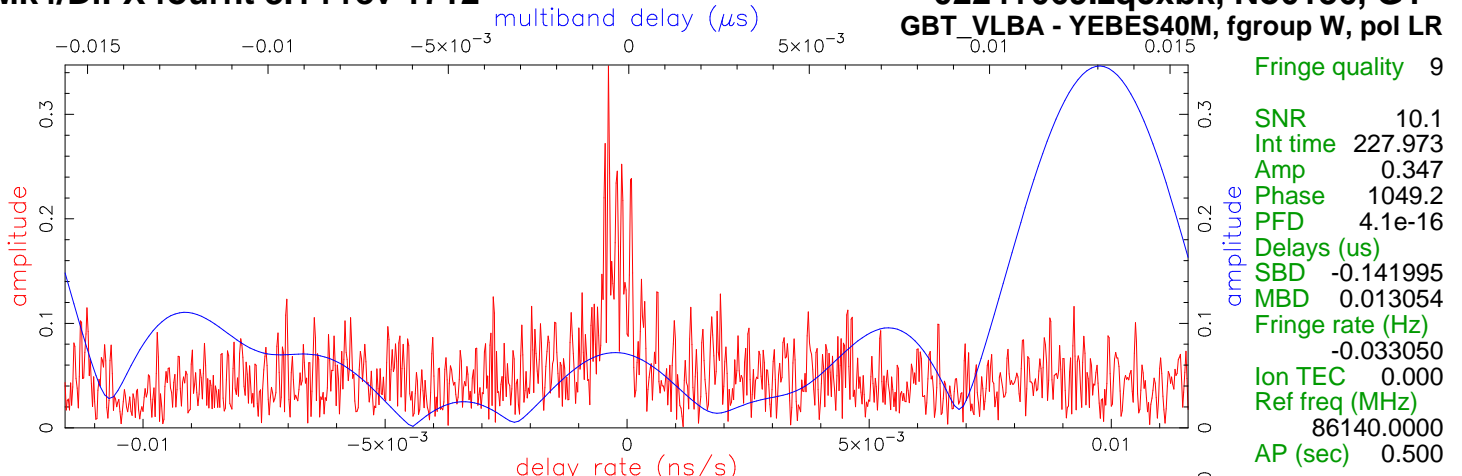
amp/seg (%) 67.6 83.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

ph/frq (deg) 26.9 28.4 Inc. seg. avg. 0.192 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

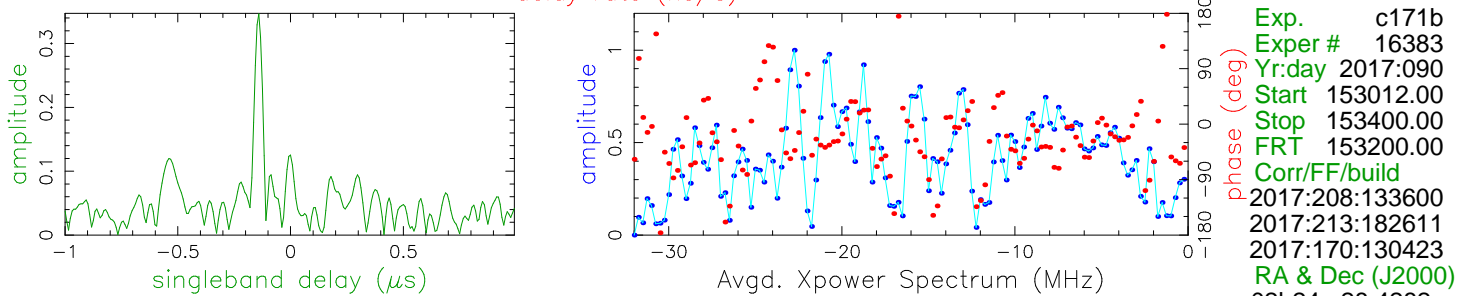
amp/frq (%) 26.7 49.5 Inc. frq. avg. 0.185 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 108.0 el 31.9 pa -48.5 Y: az 216.8 el 51.1 pa 27.7 u,v (fr/asec) -8236.956 15.697 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GY..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GY.W.458.zqcxbk

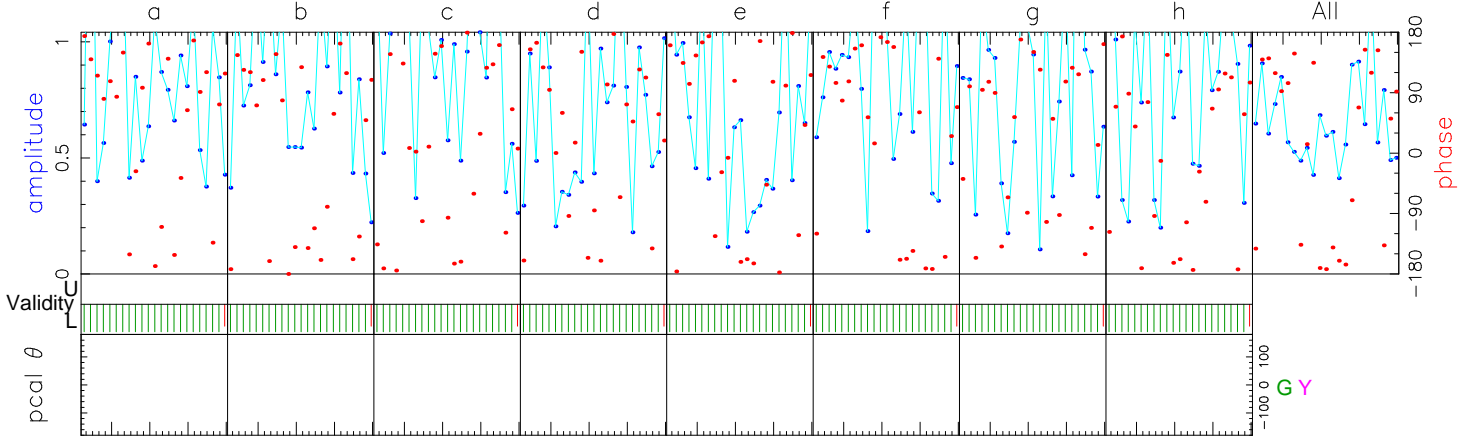


Fringe quality 9
 SNR 10.1
 Int time 227.973
 Amp 0.347
 Phase 1049.2
 PFD 4.1e-16
 Delays (us)
 SBD -0.141995
 MBD 0.013054
 Fringe rate (Hz)
 -0.033050
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. c171b
 Exper # 16383
 Yr:day 2017:090
 Start 153012.00
 Stop 153400.00
 FRT 153200.00
 Corr/FF/build
 2017:208:133600
 2017:213:182611
 2017:170:130423
 RA & Dec (J2000)
 02h24m28.4282s
 +6°59'23.342"

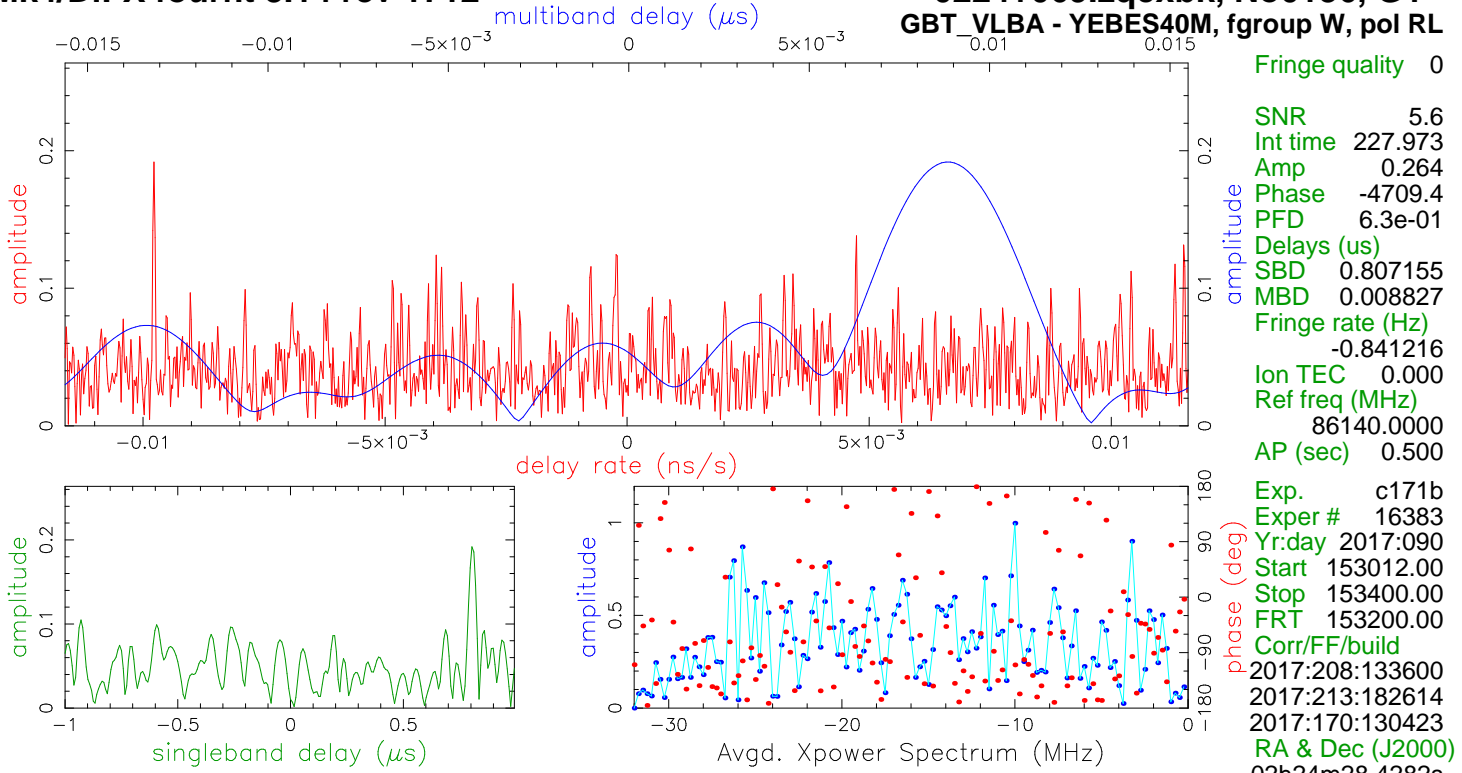
Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



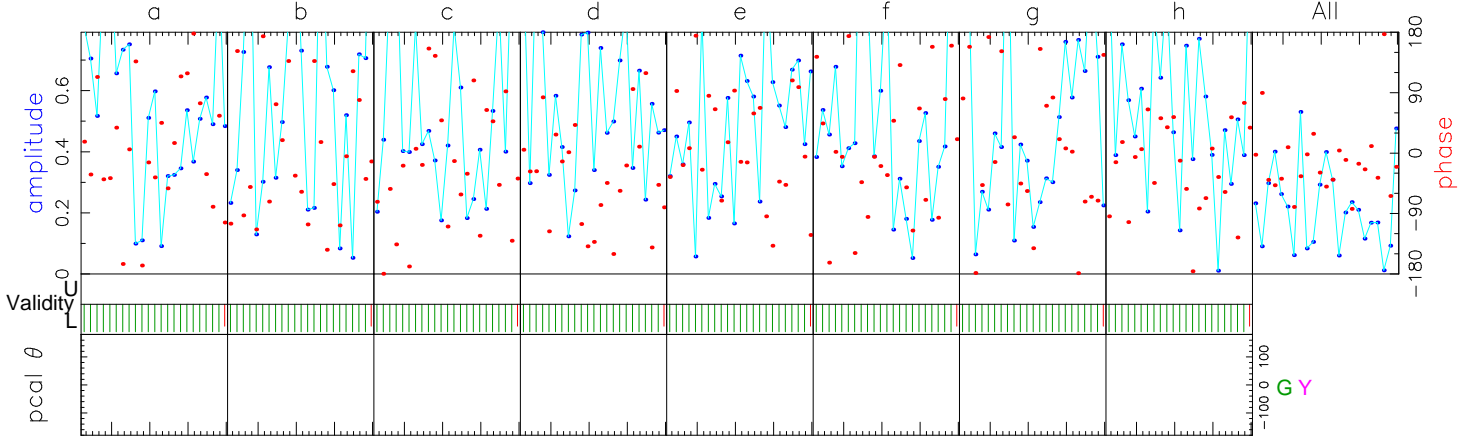
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	140.2	146.5	171.6	140.6	158.5	148.7	142.2	144.4	Phase	149.2
	0.4	0.5	0.3	0.2	0.4	0.5	0.3	0.2	Ampl.	0.3
	110.9	110.6	110.1	24.7	111.0	110.8	190.6	73.2	Sbd box	110.8
U/L	0/456	0/456	0/456	0/456	0/456	0/456	0/456	0/456	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.17027170003E+03		Apriori delay (usec)		-5.17012850369E+03		Resid mbdelay (usec)		1.30537E-02	+/- 2.1E-04
Sband delay (usec)	-5.17027049869E+03		Apriori clock (usec)		-1.4857893E+01		Resid sbdelay (usec)		-1.41995E-01	+/- 1.7E-03
Phase delay (usec)	-5.17012849888E+03		Apriori clockrate (us/s)		9.7014573E-08		Resid phdelay (usec)		4.81204E-06	+/- 3.6E-07
Delay rate (us/s)	1.43056921147E+00		Apriori rate (us/s)		1.43056959515E+00		Resid rate (us/s)		-3.83684E-07	+/- 2.8E-09
Total phase (deg)	938.4		Apriori accel (us/s/s)		2.70219639333E-05		Resid phase (deg)		1049.2	+/- 11.3

RMS Theor. Amplitude 0.347 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 63.8 27.1 Search (1024X32) 0.337 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 107.7 47.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 11.7 16.0 Inc. seg. avg. 0.598 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 25.5 27.9 Inc. frq. avg. 0.338 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 108.0 el 31.9 pa -48.5 Y: az 216.8 el 51.1 pa 27.7 u,v (fr/asec) -8236.956 15.697 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GY..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GY.W.459.zqcxbk



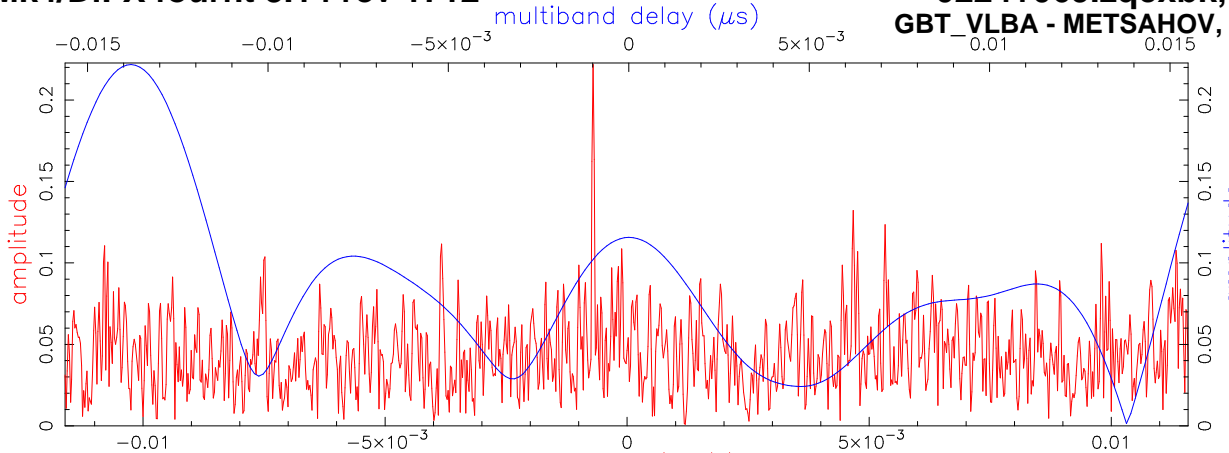
Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



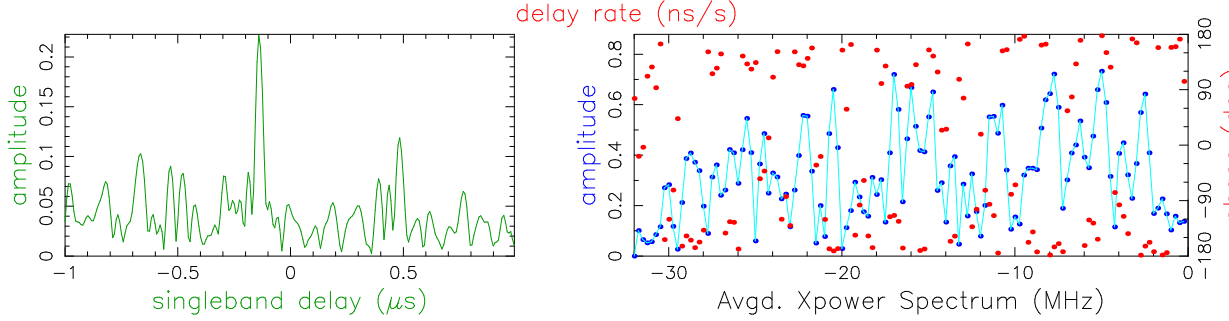
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-3.2	-35.4	-64.4	-42.1	-7.1	-31.0	-46.8	-18.4	Phase	-29.4
	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.4	Ampl.	0.2
	136.4	11.5	217.5	38.5	32.0	98.2	51.3	99.9	Sbd box	232.3
U/L	0/456	0/456	0/456	0/456	0/456	0/456	0/456	0/456	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.16930717642E+03		Apriori delay (usec)	-5.17012850369E+03		Resid mbdelay (usec)	8.82727E-03	+/-	3.8E-04	
Sband delay (usec)	-5.16932134869E+03		Apriori clock (usec)	-1.4857893E+01		Resid sbdelay (usec)	8.07155E-01	+/-	3.1E-03	
Phase delay (usec)	-5.17012850464E+03		Apriori clockrate (us/s)	9.7014573E-08		Resid phdelay (usec)	-9.47720E-07	+/-	6.5E-07	
Delay rate (us/s)	1.43055982947E+00		Apriori rate (us/s)	1.43056959515E+00		Resid rate (us/s)	-9.76568E-06	+/-	5.0E-09	
Total phase (deg)		-4820.2	Apriori accel (us/s/s)	2.70219639333E-05		Resid phase (deg)	-4709.4	+/-	20.3	

	RMS	Theor.	Amplitude	0.264 +/- 0.047	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	49.2	48.6	Search (1024X32)	0.185	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
amp/seg (%)	70.3	84.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
ph/frq (deg)	22.5	28.7	Inc. seg. avg.	0.217	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
amp/frq (%)	29.0	50.1	Inc. frq. avg.	0.246	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			

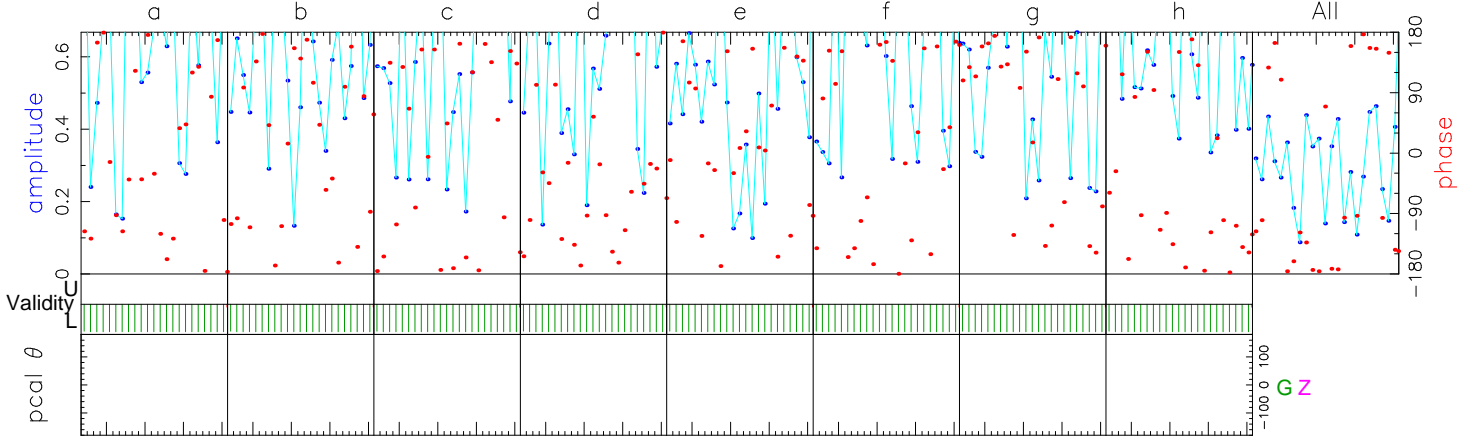
G: az 108.0 el 31.9 pa -48.5 Y: az 216.8 el 51.1 pa 27.7 u,v (fr/asec) -8236.956 15.697 simultaneous interpolator
Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GY..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GY.W.460.zqcxbk



Fringe quality 0
SNR 6.4
Int time 219.262
Amp 0.223
Phase 546.4
PFD 1.3e-02
Delays (us)
SBD -0.139252
MBD -0.013785
Fringe rate (Hz)
-0.060030
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500
Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 153020.50
Stop 153400.00
FRT 153200.00
Corr/FF/build
2017:208:133600
2017:213:123712
2017:170:130423
RA & Dec (J2000)
02h24m28.4282s
+6°59'23.342"

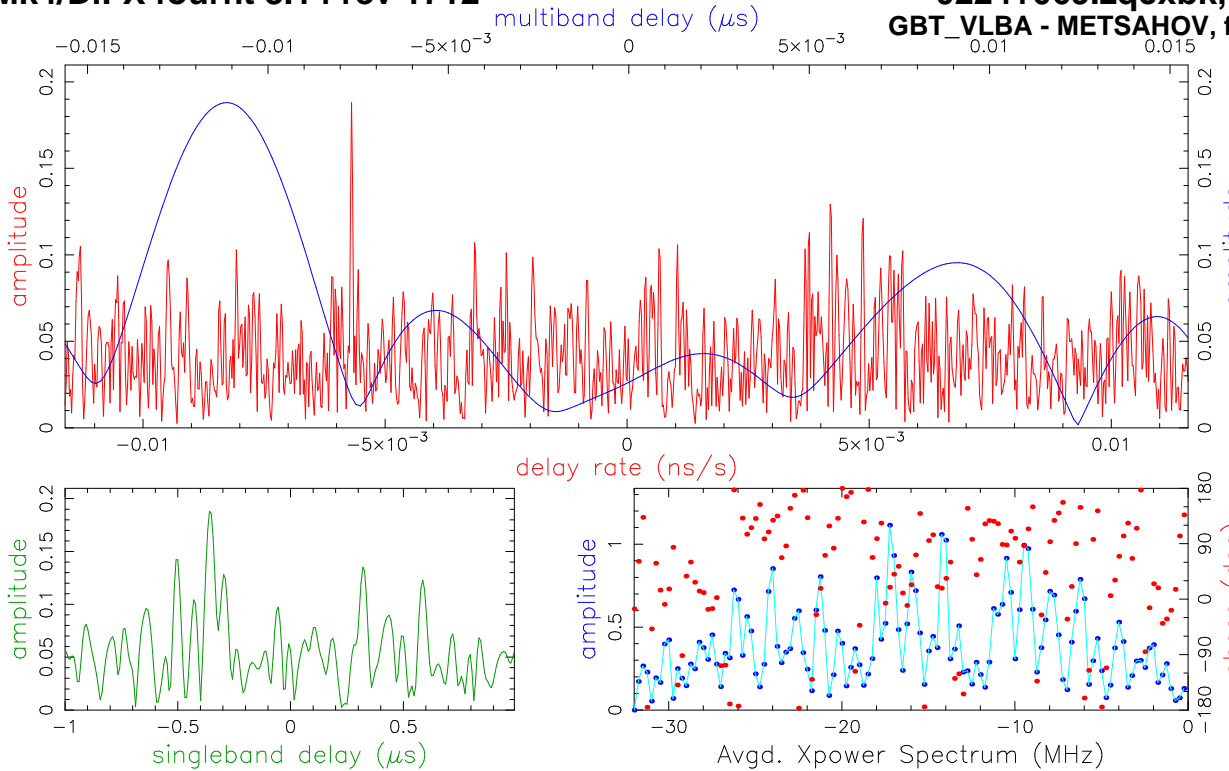


Amp. and Phase vs. time for each freq., 24 segs, 19 APs / seg (9.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All					
-147.8	-173.5	158.8	-101.0	161.1	-176.3	151.1	-146.4	Phase	-173.6					
0.2	0.2	0.4	0.2	0.1	0.4	0.3	0.3	Ampl.	0.2					
190.7	220.6	110.1	192.1	5.4	110.9	1.4	87.9	Sbd box	111.2					
U/L 0/439	0/439	0/439	0/439	0/439	0/439	0/439	0/439	APs used						
G 0	0	0	0	0	0	0	0	PC freqs						
Z 0	0	0	0	0	0	0	0	PC freqs						
G:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase						
G:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC						
G 1000	1000	1000	1000	1000	1000	1000	1000	PC amp						
Z 1000	1000	1000	1000	1000	1000	1000	1000							
G W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids						
Z W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks						
Group delay (usec)(sbd)									2.36117197791E+03	Apriori delay (usec)	2.36131076279E+03	Resid mbdelay (usec)	-1.37849E-02	+/- 3.4E-04
Sband delay (usec)									2.36117151129E+03	Apriori clock (usec)	-1.2089998E+01	Resid sbdelay (usec)	-1.39252E-01	+/- 2.7E-03
Phase delay (usec)									2.36131075720E+03	Apriori clockrate (us/s)	9.2089346E-07	Resid phdelay (usec)	-5.59799E-06	+/- 5.8E-07
Delay rate (us/s)									1.56635285998E+00	Apriori rate (us/s)	1.56635355687E+00	Resid rate (us/s)	-6.96884E-07	+/- 4.6E-09
Total phase (deg)									584.9	Apriori accel (us/s/s)	-1.60421993103E-05	Resid phase (deg)	546.4	+/- 18.0

RMS Theor. Amplitude 0.223 +/- 0.035 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 51.2 44.1 Search (1024X32) 0.215 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 63.2 76.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 39.5 25.5 Inc. seg. avg. 0.230 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 46.8 44.4 Inc. frq. avg. 0.235 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 G: az 108.0 el 31.9 pa -48.5 Z: az 236.8 el 25.2 pa 24.8 u,v (fr/asec) -9047.823 -2324.581 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GZ..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GZ.W.233.zqcxbk

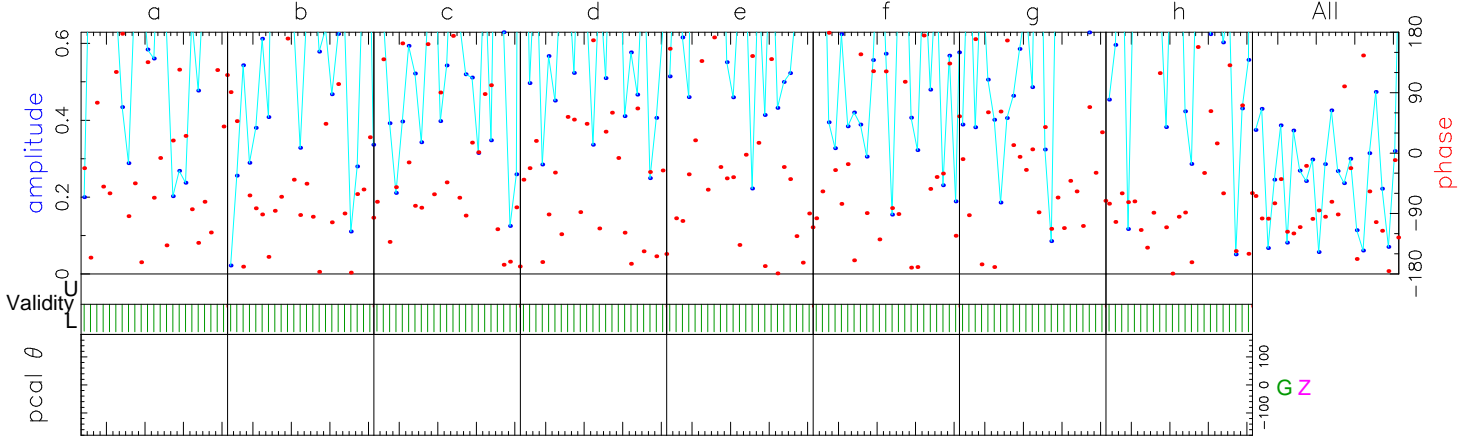


Fringe quality 0

SNR 5.4
Int time 219.262
Amp 0.210
Phase 1899.2
PFD 9.6e-01
Delays (us)
SBD -0.356277
MBD -0.011173
Fringe rate (Hz)
-0.490302
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 153020.50
Stop 153400.00
FRT 153200.00
Corr/FF/build
2017:208:133600
2017:213:123713
2017:170:130423
RA & Dec (J2000)
02h24m28.4282s
+6°59'23.342"

Amp. and Phase vs. time for each freq., 24 segs, 19 APs / seg (9.50 sec / seg.), time ticks 10 sec

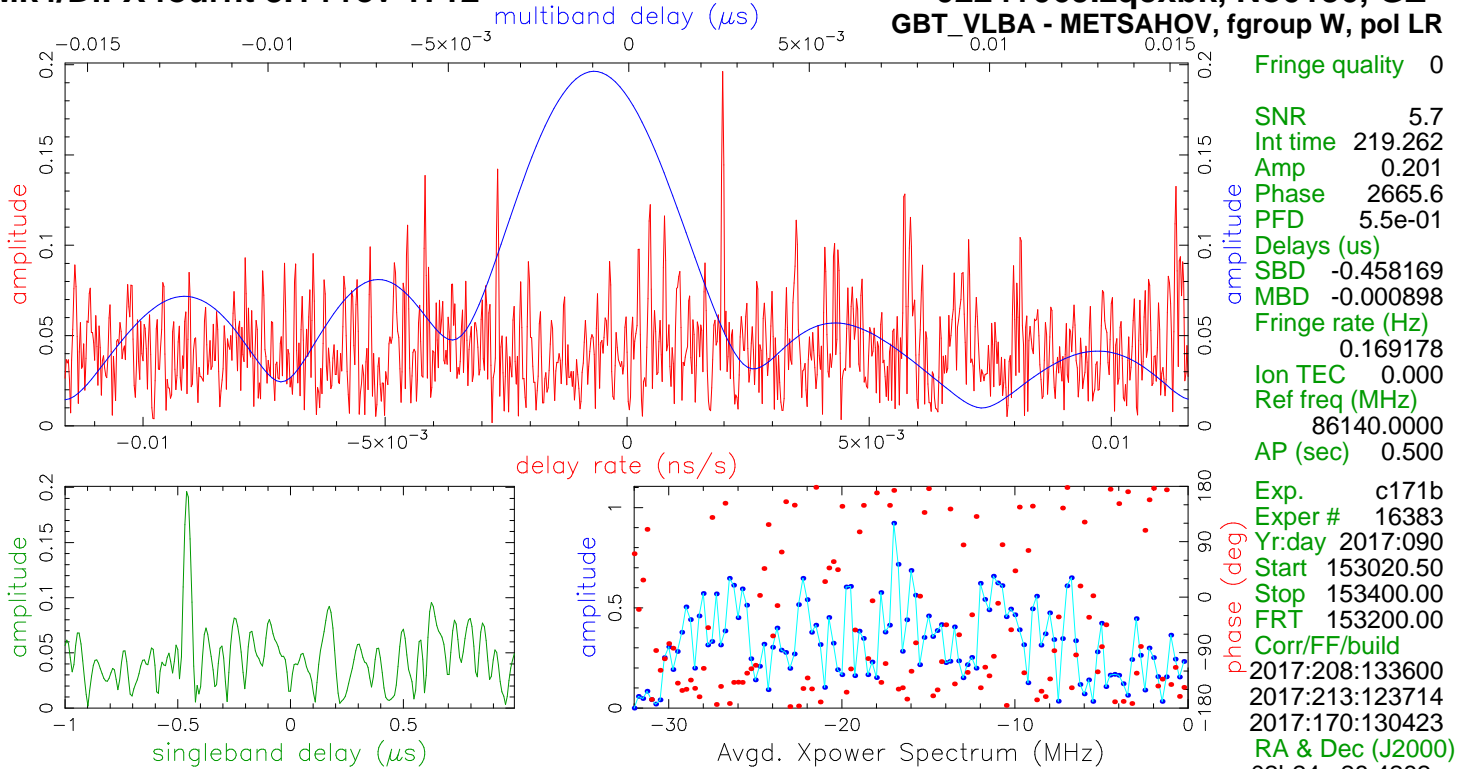


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-96.3	-80.3	-108.6	-35.8	-69.3	-122.4	-52.7	-103.0	Phase	-80.8
	0.1	0.3	0.2	0.2	0.2	0.2	0.3	0.3	Ampl.	0.2
	218.6	33.8	170.7	91.3	77.1	90.3	65.2	74.9	Sbd box	83.4
U/L	0/439	0/439	0/439	0/439	0/439	0/439	0/439	0/439	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.36095584020E+03		Apriori delay (usec)		2.36131076279E+03		Resid mbdelay (usec)		-1.11726E-02	+/- 4.0E-04
Sband delay (usec)	2.36095448629E+03		Apriori clock (usec)		-1.2089998E+01		Resid sbdelay (usec)		-3.56277E-01	+/- 3.2E-03
Phase delay (usec)	2.36131076019E+03		Apriori clockrate (us/s)		9.2089346E-07		Resid phdelay (usec)		-2.60533E-06	+/- 6.8E-07
Delay rate (us/s)	1.56634786495E+00		Apriori rate (us/s)		1.56635355687E+00		Resid rate (us/s)		-5.69191E-06	+/- 5.4E-09
Total phase (deg)	1937.7		Apriori accel (us/s/s)		-1.60421993103E-05		Resid phase (deg)		1899.2	+/- 21.1

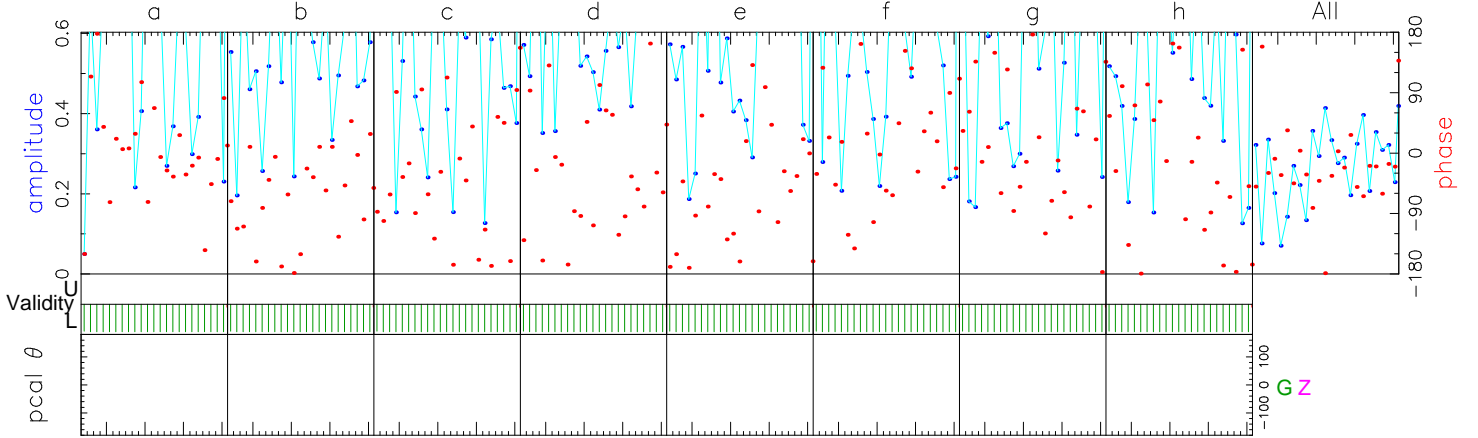
ph/seg (deg) 61.3 51.7 Amplitude 0.210 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 77.6 90.2 Search (1024X32) 0.185 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 32.1 29.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 31.1 52.1 Inc. seg. avg. 0.204 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 Inc. frq. avg. 0.205 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 108.0 el 31.9 pa -48.5 Z: az 236.8 el 25.2 pa 24.8 u,v (fr/asec) -9047.823 -2324.581 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GZ..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GZ.W.234.zqcxbk



Amp. and Phase vs. time for each freq., 24 segs, 19 APs / seg (9.50 sec / seg.), time ticks 10 sec

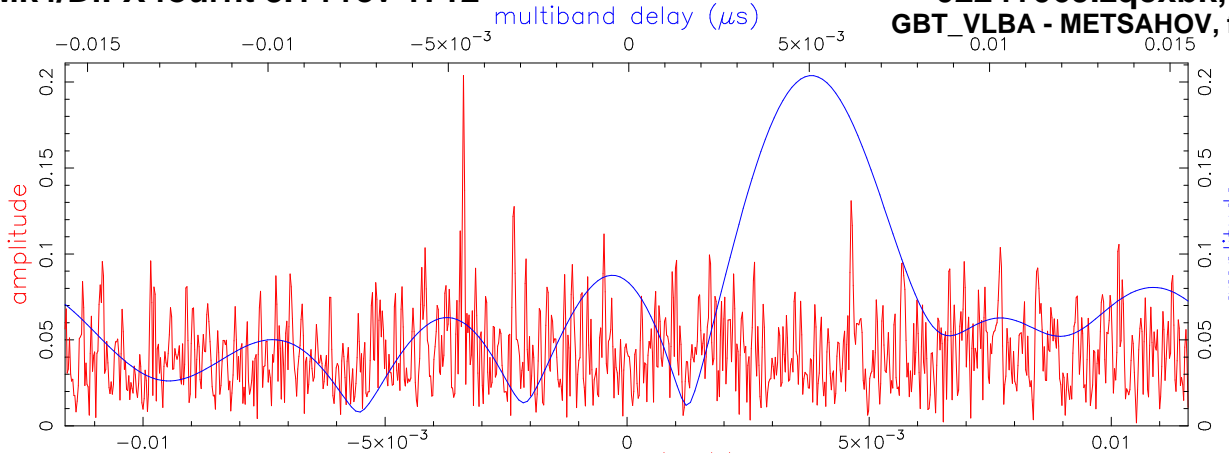


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-5.3	-50.9	-46.8	-60.8	-50.4	0.6	-32.2	-56.4		Phase	-34.4
0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.0		Ampl.	0.2
255.6	242.4	1.5	208.9	174.3	95.0	173.8	108.9		Sbd box	70.4
U/L	0/439	0/439	0/439	0/439	0/439	0/439	0/439		APs used	
G	0	0	0	0	0	0	0		PC freqs	
Z	0	0	0	0	0	0	0		PC freqs	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0		ManI PC	
G	1000	1000	1000	1000	1000	1000	1000		PC amp	
Z	1000	1000	1000	1000	1000	1000	1000			
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.36084111520E+03		Apriori delay (usec)	2.36131076279E+03		Resid mbdelay (usec)	-8.97592E-04	+/-	3.8E-04	
Sband delay (usec)	2.36085259379E+03		Apriori clock (usec)	-1.2089998E+01		Resid sbdelay (usec)	-4.58169E-01	+/-	3.0E-03	
Phase delay (usec)	2.36131076168E+03		Apriori clockrate (us/s)	9.2089346E-07		Resid phdelay (usec)	-1.11087E-06	+/-	6.5E-07	
Delay rate (us/s)	1.5663552085E+00		Apriori rate (us/s)	1.56635355687E+00		Resid rate (us/s)	1.96398E-06	+/-	5.1E-09	
Total phase (deg)		2704.1	Apriori accel (us/s/s)	-1.60421993103E-05		Resid phase (deg)	2665.6	+/-	20.1	

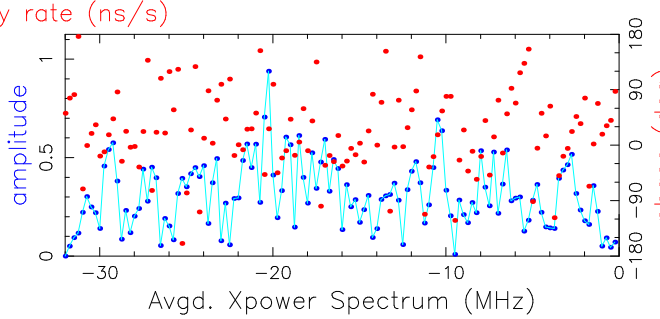
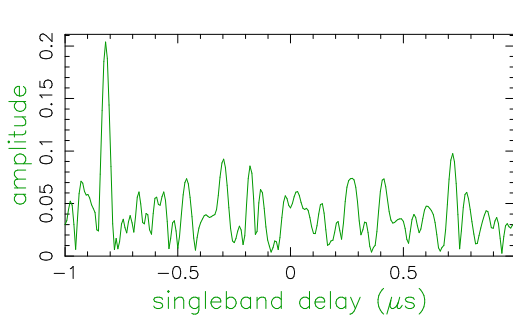
	RMS	Theor.	Amplitude	0.201 +/- 0.035	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	54.8	49.4	Search (1024X32)	0.185	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
amp/seg (%)	57.7	86.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
ph/frq (deg)	25.6	28.5	Inc. seg. avg.	0.196	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
amp/frq (%)	43.9	49.7	Inc. frq. avg.	0.192	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			

G: az 108.0 el 31.9 pa -48.5 Z: az 236.8 el 25.2 pa 24.8 u,v (fr/asec) -9047.823 -2324.581 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GZ..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GZ.W.235.zqcxbk

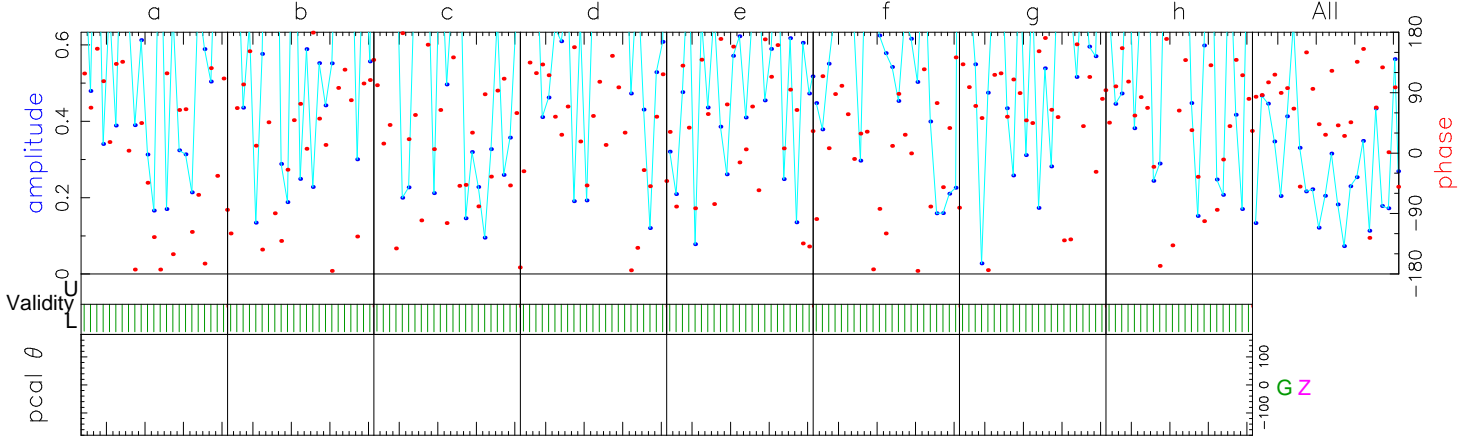


Fringe quality 0
 SNR 5.8
 Int time 219.262
 Amp 0.211
 Phase 4769.3
 PFD 2.9e-01
 Delays (us)
 SBD -0.819986
 MBD 0.005070
 Fringe rate (Hz)
 -0.291342
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. c171b
 Exper # 16383
 Yr:day 2017:090
 Start 153020.50
 Stop 153400.00
 FRT 153200.00
 Corr/FF/build
 2017:208:133600
 2017:213:123715
 2017:170:130423
 RA & Dec (J2000)
 02h24m28.4282s
 +6°59'23.342"

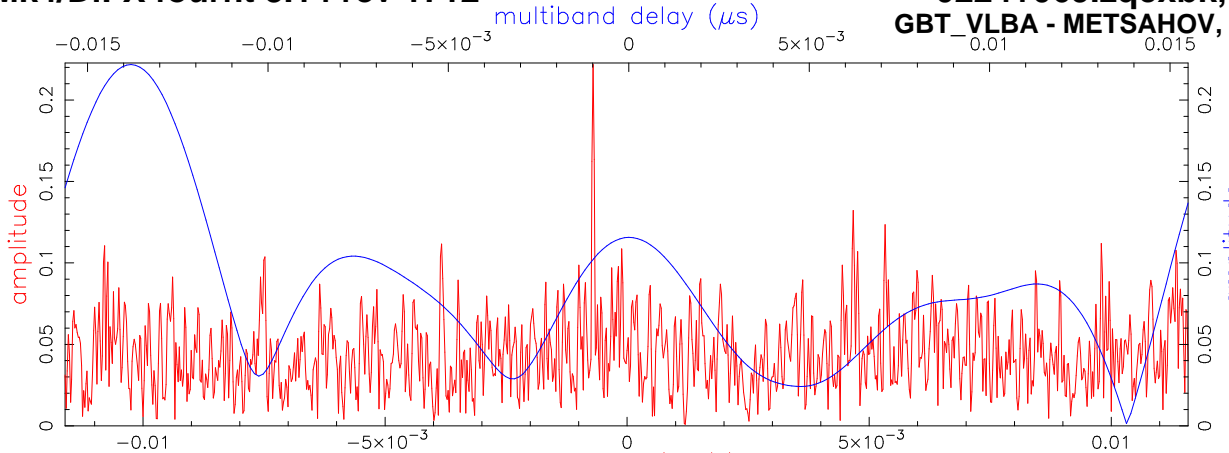
Amp. and Phase vs. time for each freq., 24 segs, 19 APs / seg (9.50 sec / seg.), time ticks 10 sec



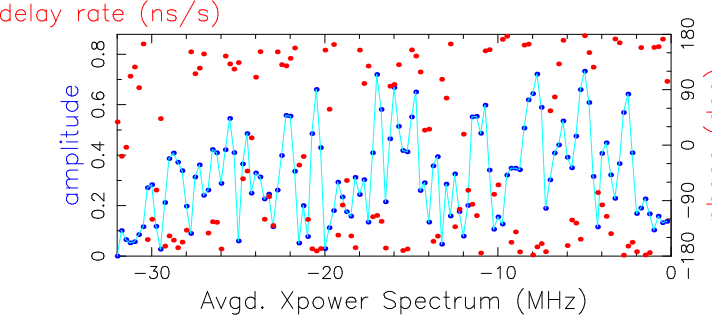
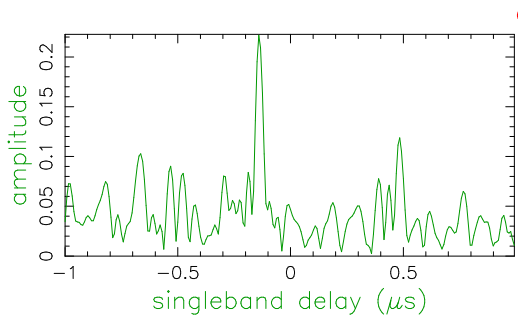
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	127.8	88.3	56.3	75.6	104.9	49.6	98.1	101.0	Phase	89.3
	0.2	0.2	0.1	0.3	0.1	0.2	0.3	0.3	Ampl.	0.2
	5.7	89.4	63.6	138.2	29.9	93.3	187.2	24.2	Sbd box	24.0
U/L	0/439	0/439	0/439	0/439	0/439	0/439	0/439	0/439	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
Group delay (usec)(sbd)	2.3605033286E+03		Apriori delay (usec)		2.36131076279E+03		Resid mbdelay (usec)		5.07007E-03	+/- 3.7E-04
Sband delay (usec)	2.36049077729E+03		Apriori clock (usec)		-1.2089998E+01		Resid sbdelay (usec)		-8.19986E-01	+/- 3.0E-03
Phase delay (usec)	2.36131076567E+03		Apriori clockrate (us/s)		9.2089346E-07		Resid phdelay (usec)		2.87876E-06	+/- 6.3E-07
Delay rate (us/s)	1.56635017468E+00		Apriori rate (us/s)		1.56635355687E+00		Resid rate (us/s)		-3.38219E-06	+/- 5.0E-09
Total phase (deg)	4807.8		Apriori accel (us/s/s)		-1.60421993103E-05		Resid phase (deg)		4769.3	+/- 19.6

RMS Theor. Amplitude 0.211 +/- 0.036 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 58.6 48.1 Search (1024X32) 0.195 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 83.7 83.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 28.3 27.8 Inc. seg. avg. 0.221 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 41.9 48.5 Inc. frq. avg. 0.203 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

G: az 108.0 el 31.9 pa -48.5 Z: az 236.8 el 25.2 pa 24.8 u,v (fr/asec) -9047.823 -2324.581 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GZ..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GZ.W.236.zqcxbk

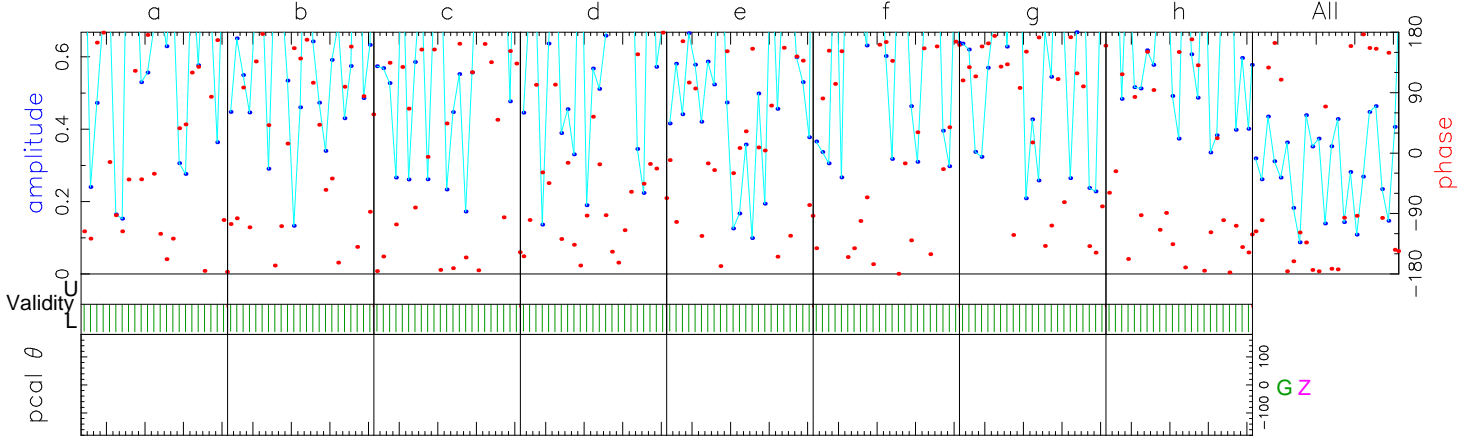


Fringe quality 0
SNR 6.4
Int time 219.262
Amp 0.223
Phase 546.4
PFD 1.3e-02
Delays (us)
SBD -0.139252
MBD -0.013785
Fringe rate (Hz)
-0.060030
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500



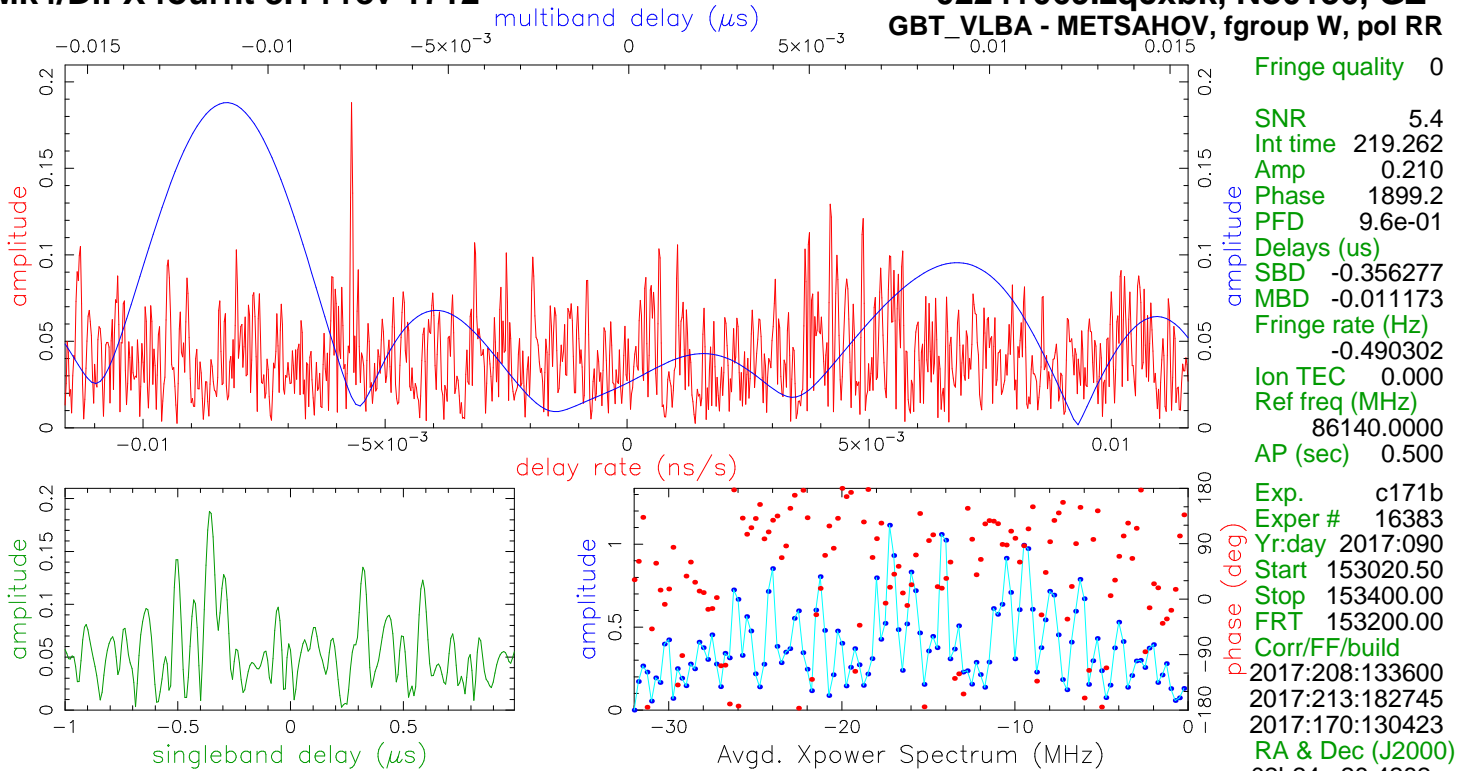
Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 153020.50
Stop 153400.00
FRT 153200.00
Corr/FF/build
2017:208:133600
2017:213:182744
2017:170:130423
RA & Dec (J2000)
02h24m28.4282s
+6°59'23.342"

Amp. and Phase vs. time for each freq., 24 segs, 19 APs / seg (9.50 sec / seg.), time ticks 10 sec

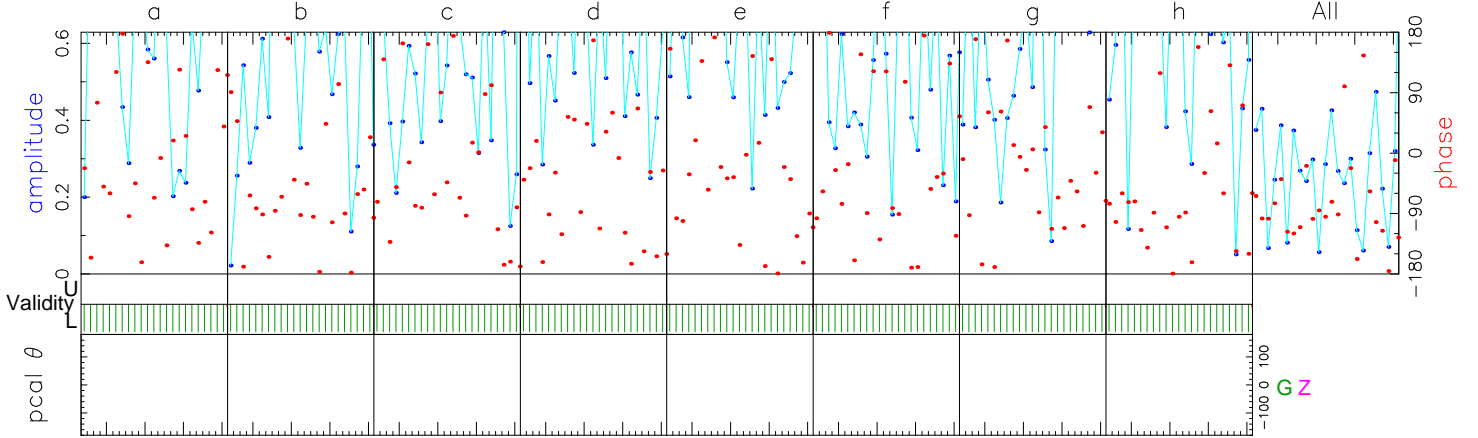


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-147.8	-173.5	158.8	-101.0	161.1	-176.3	151.1	-146.4	Phase	-173.6
	0.2	0.2	0.4	0.2	0.1	0.4	0.3	0.3	Ampl.	0.2
	190.7	220.6	110.1	192.1	5.4	110.9	1.4	87.9	Sbd box	111.2
U/L	0/439	0/439	0/439	0/439	0/439	0/439	0/439	0/439	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.36117197791E+03		Apriori delay (usec)		2.36131076279E+03		Resid mbdelay (usec)		-1.37849E-02	+/- 3.4E-04
Sband delay (usec)	2.36117151129E+03		Apriori clock (usec)		-1.2089998E+01		Resid sbdelay (usec)		-1.39252E-01	+/- 2.7E-03
Phase delay (usec)	2.36131075720E+03		Apriori clockrate (us/s)		9.2089346E-07		Resid phdelay (usec)		-5.59799E-06	+/- 5.8E-07
Delay rate (us/s)	1.56635285998E+00		Apriori rate (us/s)		1.56635355687E+00		Resid rate (us/s)		-6.96884E-07	+/- 4.6E-09
Total phase (deg)	584.9		Apriori accel (us/s/s)		-1.60421993103E-05		Resid phase (deg)		546.4	+/- 18.0

RMS Theor. Amplitude 0.223 +/- 0.035 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 51.2 44.1 Search (1024X32) 0.215 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 63.2 76.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 39.5 25.5 Inc. seg. avg. 0.230 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 46.8 44.4 Inc. frq. avg. 0.235 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 G: az 108.0 el 31.9 pa -48.5 Z: az 236.8 el 25.2 pa 24.8 u,v (fr/asec) -9047.823 -2324.581 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GZ..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GZ.W.497.zqcxbk

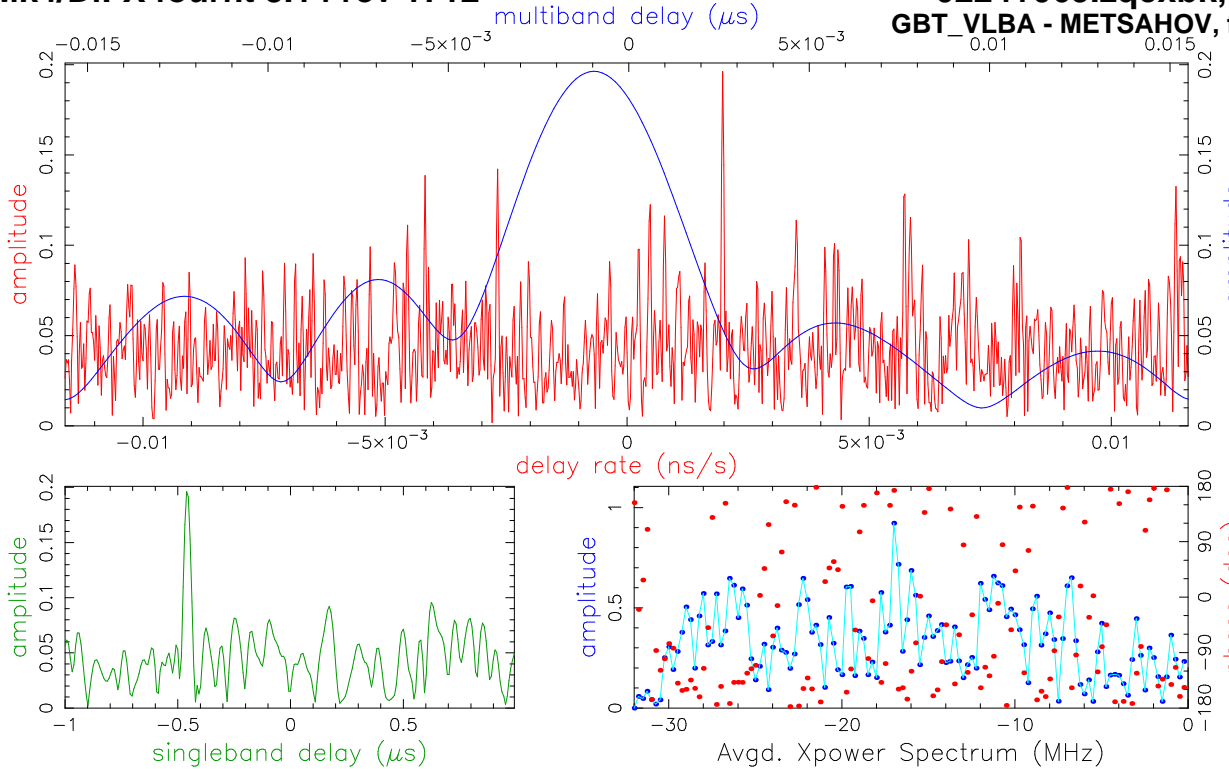


Amp. and Phase vs. time for each freq., 24 segs, 19 APs / seg (9.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-96.3	-80.3	-108.6	-35.8	-69.3	-122.4	-52.7	-103.0	Phase	-80.8
	0.1	0.3	0.2	0.2	0.2	0.2	0.3	0.3	Ampl.	0.2
	218.6	33.8	170.7	91.3	77.1	90.3	65.2	74.9	Sbd box	83.4
U/L	0/439	0/439	0/439	0/439	0/439	0/439	0/439	0/439	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.36095584020E+03		Apriori delay (usec)		2.36131076279E+03		Resid mbdelay (usec)		-1.11726E-02	+/- 4.0E-04
Sband delay (usec)	2.36095448629E+03		Apriori clock (usec)		-1.2089998E+01		Resid sbdelay (usec)		-3.56277E-01	+/- 3.2E-03
Phase delay (usec)	2.36131076019E+03		Apriori clockrate (us/s)		9.2089346E-07		Resid phdelay (usec)		-2.60533E-06	+/- 6.8E-07
Delay rate (us/s)	1.56634786495E+00		Apriori rate (us/s)		1.56635355687E+00		Resid rate (us/s)		-5.69191E-06	+/- 5.4E-09
Total phase (deg)	1937.7		Apriori accel (us/s/s)		-1.60421993103E-05		Resid phase (deg)		1899.2	+/- 21.1

ph/seg (deg) 61.3 51.7 Amplitude 0.210 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 77.6 90.2 Search (1024X32) 0.185 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 32.1 29.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 31.1 52.1 Inc. seg. avg. 0.204 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 G: az 108.0 el 31.9 pa -48.5 Z: az 236.8 el 25.2 pa 24.8 u,v (fr/asec) -9047.823 -2324.581 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GZ..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GZ.W.498.zqcxbk

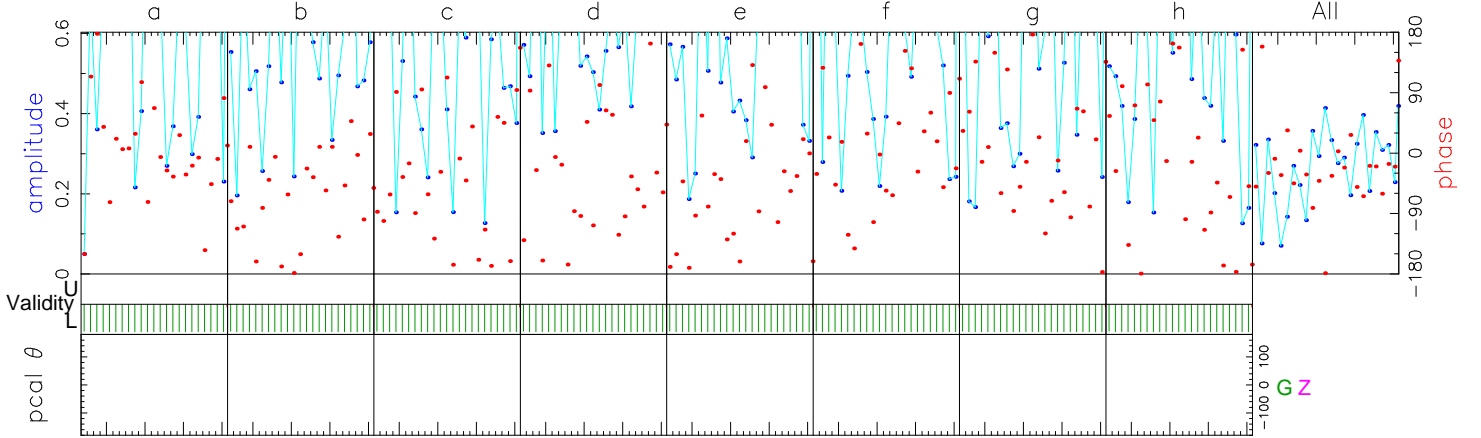


Fringe quality 0

SNR 5.7
Int time 219.262
Amp 0.201
Phase 2665.6
PFD 5.5e-01
Delays (us)
SBD -0.458169
MBD -0.000898
Fringe rate (Hz) 0.169178
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

Exp. c171b
Exper # 16383
Yr:day 2017:090
Start 153020.50
Stop 153400.00
FRT 153200.00
Corr/FF/build 2017:208:133600
2017:213:182748
2017:170:130423
RA & Dec (J2000) 02h24m28.4282s
+6°59'23.342"

Amp. and Phase vs. time for each freq., 24 segs, 19 APs / seg (9.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-5.3	-50.9	-46.8	-60.8	-50.4	0.6	-32.2	-56.4	Phase	-34.4
0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.0	Ampl.	0.2
255.6	242.4	1.5	208.9	174.3	95.0	173.8	108.9	Sbd box	70.4
U/L 0/439	0/439	0/439	0/439	0/439	0/439	0/439	0/439	APs used	
G 0	0	0	0	0	0	0	0	PC freqs	
Z 0	0	0	0	0	0	0	0	PC freqs	
G:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
G W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	2.36084111520E+03	Apriori delay (usec)	2.36131076279E+03	Resid mbdelay (usec)	-8.97592E-04	+/-	3.8E-04		
Sband delay (usec)	2.36085259379E+03	Apriori clock (usec)	-1.2089998E+01	Resid sbdelay (usec)	-4.58169E-01	+/-	3.0E-03		
Phase delay (usec)	2.36131076168E+03	Apriori clockrate (us/s)	9.2089346E-07	Resid phdelay (usec)	-1.11087E-06	+/-	6.5E-07		
Delay rate (us/s)	1.5663552085E+00	Apriori rate (us/s)	1.56635355687E+00	Resid rate (us/s)	1.96398E-06	+/-	5.1E-09		
Total phase (deg)	2704.1	Apriori accel (us/s/s)	-1.60421993103E-05	Resid phase (deg)	2665.6	+/-	20.1		

ph/seg (deg) 54.8 49.4
amp/seg (%) 57.7 86.1
ph/frq (deg) 25.6 28.5
amp/frq (%) 43.9 49.7

RMS Theor. Amplitude 0.201 +/- 0.035
Search (1024X32) 0.185
Interp. 0.000
Inc. seg. avg. 0.196
Inc. frq. avg. 0.192

Group delay (usec)(sbd) 2.36084111520E+03
Sband delay (usec) 2.36085259379E+03
Phase delay (usec) 2.36131076168E+03
Delay rate (us/s) 1.5663552085E+00
Total phase (deg) 2704.1

Apriori delay (usec) 2.36131076279E+03
Apriori clock (usec) -1.2089998E+01
Apriori clockrate (us/s) 9.2089346E-07
Apriori rate (us/s) 1.56635355687E+00
Apriori accel (us/s/s) -1.60421993103E-05

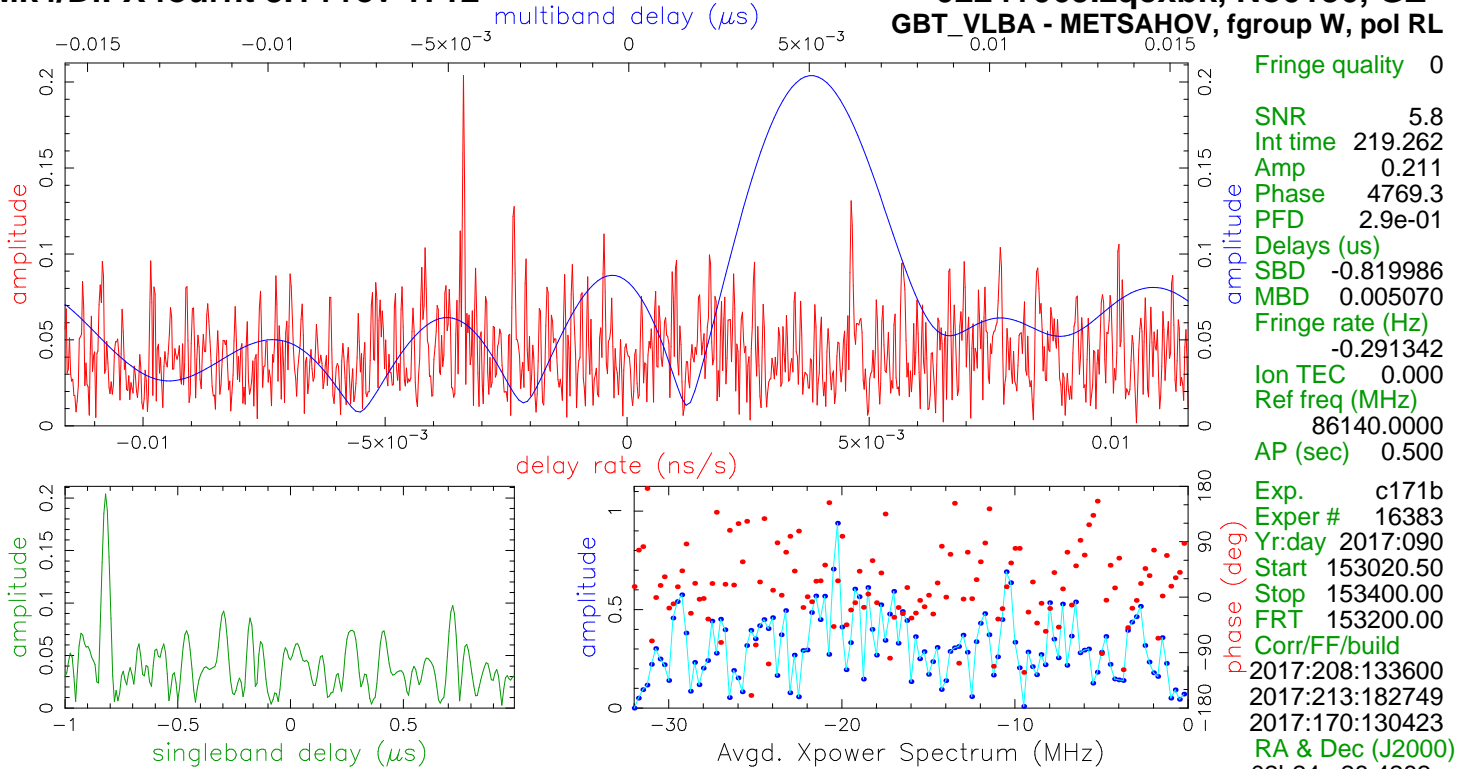
Resid mbdelay (usec) -8.97592E-04 +/- 3.8E-04
Resid sbdelay (usec) -4.58169E-01 +/- 3.0E-03
Resid phdelay (usec) -1.11087E-06 +/- 6.5E-07
Resid rate (us/s) 1.96398E-06 +/- 5.1E-09
Resid phase (deg) 2665.6 +/- 20.1

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite

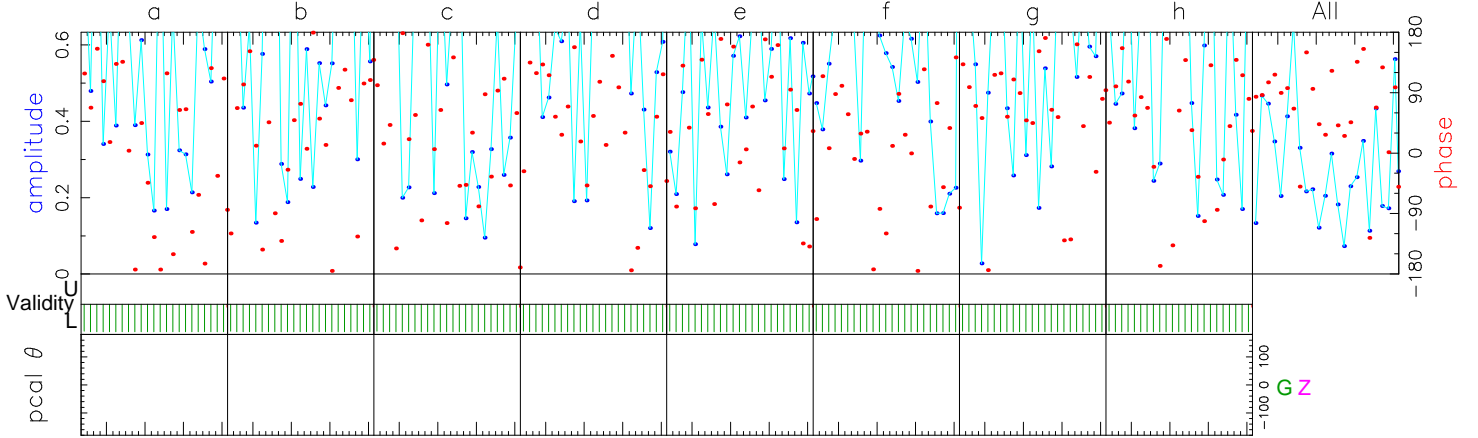
sb window (us) -1.000 1.000
mb window (us) -0.016 0.016
dr window (ns/s) -0.012 0.012
ion window (TEC) 0.00 0.00

G: az 108.0 el 31.9 pa -48.5 Z: az 236.8 el 25.2 pa 24.8 u,v (fr/asec) -9047.823 -2324.581 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GZ..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GZ.W.499.zqcxbk



Amp. and Phase vs. time for each freq., 24 segs, 19 APs / seg (9.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	127.8	88.3	56.3	75.6	104.9	49.6	98.1	101.0	Phase	89.3
	0.2	0.2	0.1	0.3	0.1	0.2	0.3	0.3	Ampl.	0.2
	5.7	89.4	63.6	138.2	29.9	93.3	187.2	24.2	Sbd box	24.0
U/L	0/439	0/439	0/439	0/439	0/439	0/439	0/439	0/439	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.3605033286E+03		Apriori delay (usec)		2.36131076279E+03		Resid mbdelay (usec)		5.07007E-03 +/- 3.7E-04	
Sband delay (usec)	2.36049077729E+03		Apriori clock (usec)		-1.2089998E+01		Resid sbdelay (usec)		-8.19986E-01 +/- 3.0E-03	
Phase delay (usec)	2.36131076567E+03		Apriori clockrate (us/s)		9.2089346E-07		Resid phdelay (usec)		2.87876E-06 +/- 6.3E-07	
Delay rate (us/s)	1.56635017468E+00		Apriori rate (us/s)		1.56635355687E+00		Resid rate (us/s)		-3.38219E-06 +/- 5.0E-09	
Total phase (deg)	4807.8		Apriori accel (us/s/s)		-1.60421993103E-05		Resid phase (deg)		4769.3 +/- 19.6	

ph/seg (deg) 58.6 48.1 Search (1024X32) 0.195 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 83.7 83.9 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 27.8 Inc. seg. avg. 0.221 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 41.9 48.5 Inc. frq. avg. 0.203 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 G: az 108.0 el 31.9 pa -48.5 Z: az 236.8 el 25.2 pa 24.8 u,v (fr/asec) -9047.823 -2324.581 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171b/gmva_3mm/1234/No0136/GZ..zqcxbk Output file: /Exps/c171b/gmva_3mm/1234/No0136/GZ.W.500.zqcxbk simultaneous interpolator