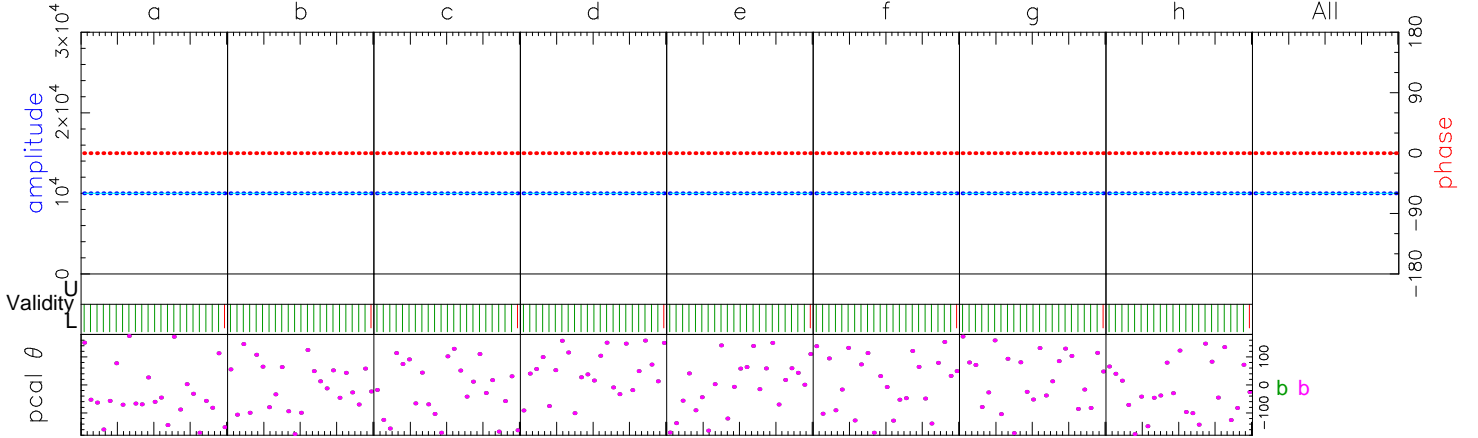
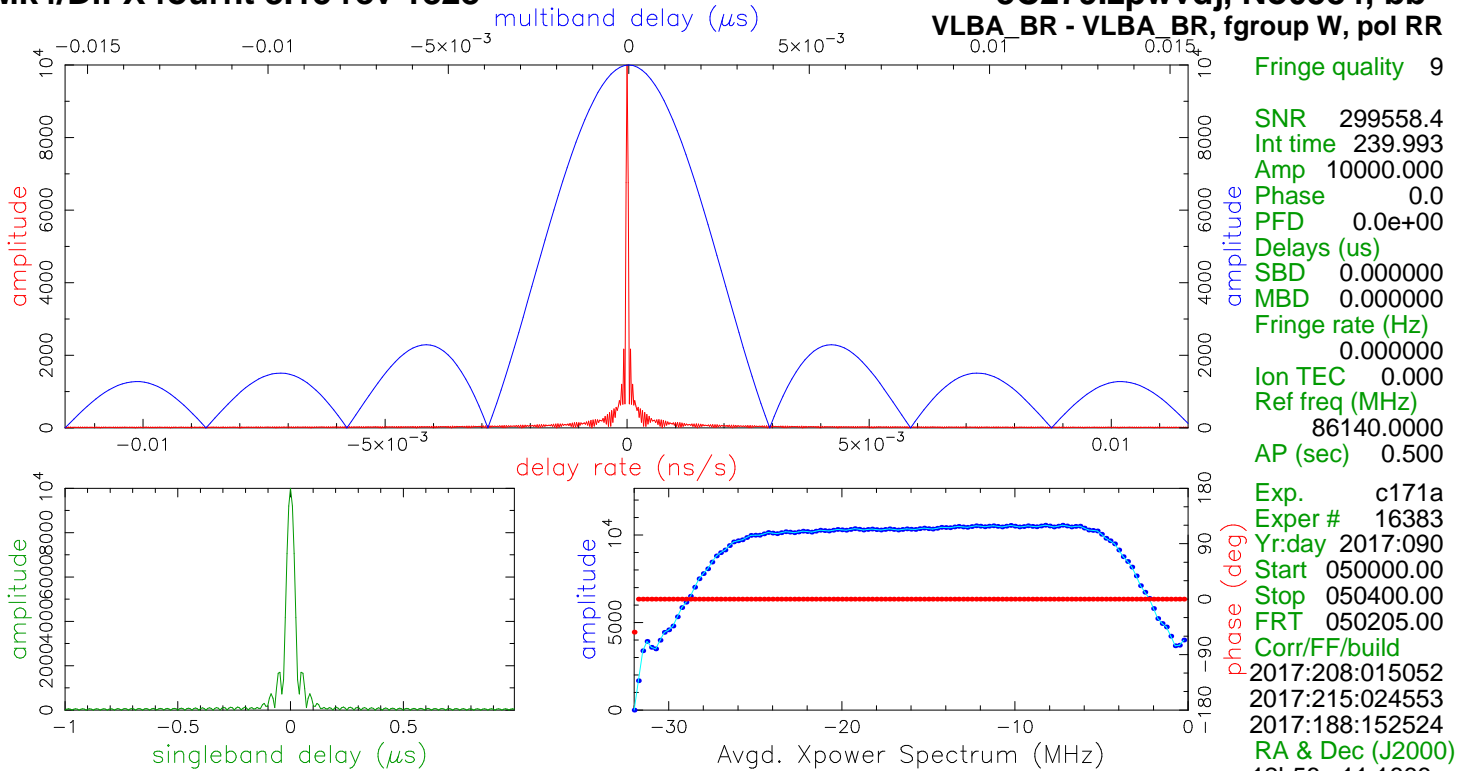


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

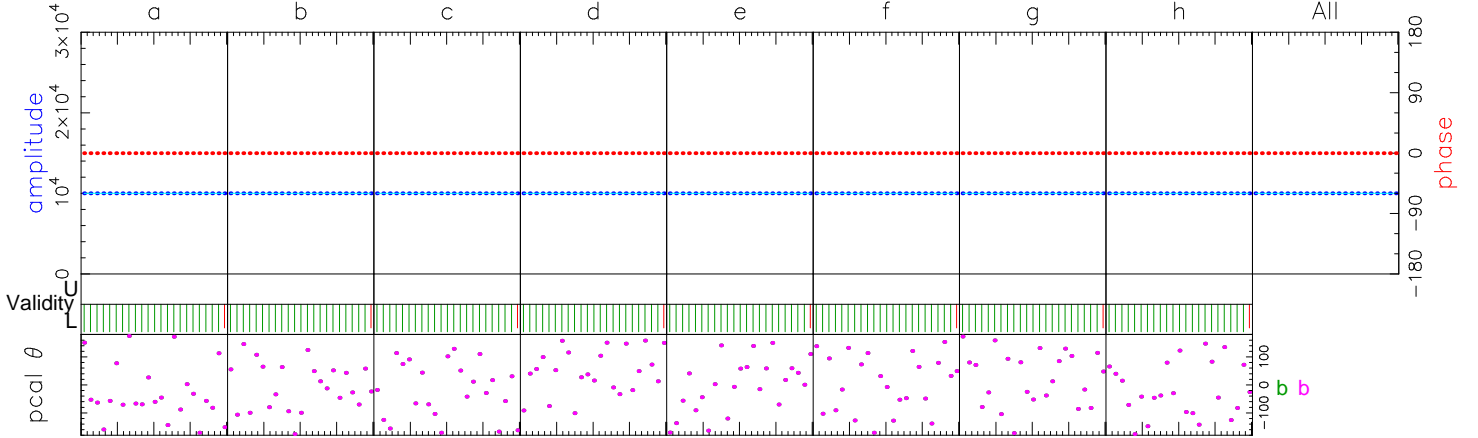


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Phase	0.0
10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	Sbd box	129.0
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC phase	
b:b 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b:b 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
b 1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
b 1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
b W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
b W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	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	RMS	0.0	Theor.	0.0	Amplitude	10000.000 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	0.0	Search (1024X32)	0.000	Interp.	0.000	Inc. seg. avg.	10000.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	0.0	Inc. frq. avg.	10000.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.016 0.016	dr window (ns/s)	-0.012 0.012
amp/frq (%)	0.0	Inc. frq. avg.	10000.000	Data rate (Mb/s):	1024	nlags:	128	t_cohere	infinite	ion window (TEC)	0.00 0.00

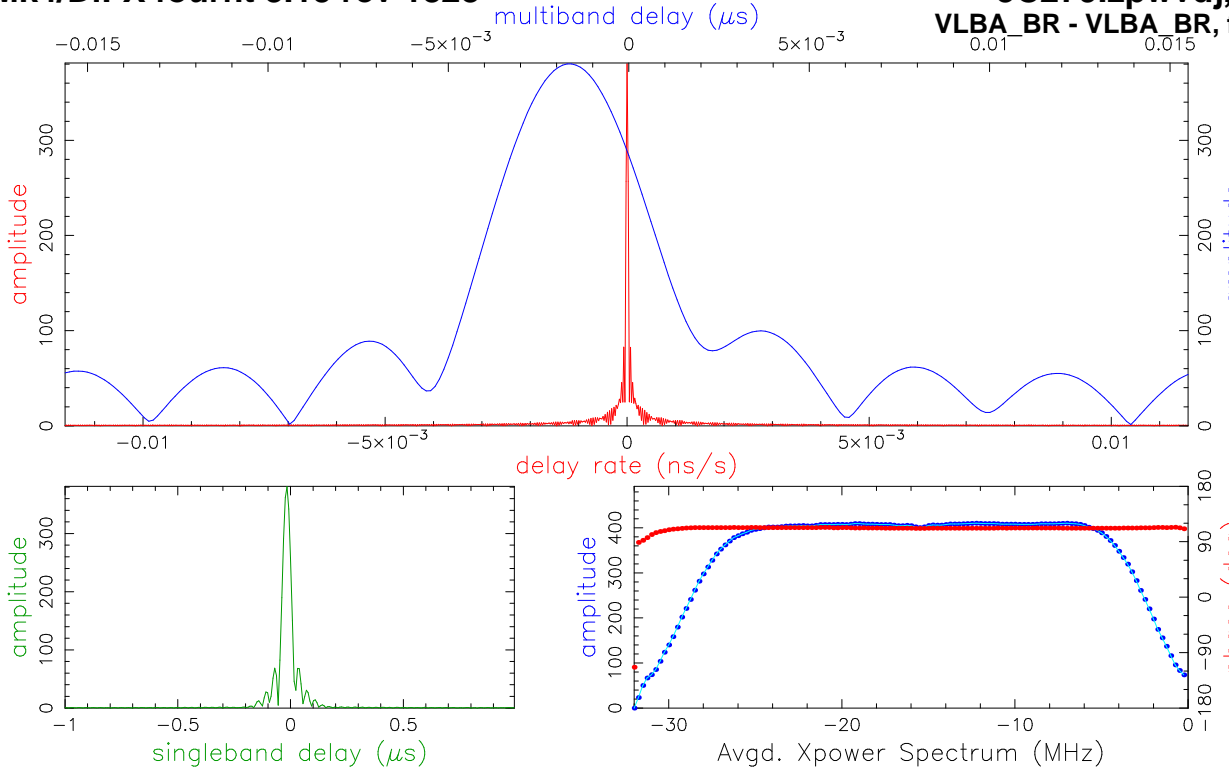


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
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	
b -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:b 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:b 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	
b 1000	1000	1000	1000	1000	1000	1000	1000		
b W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
b 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  
 b: az 125.4 el 20.4 pa -33.2 b: az 125.4 el 20.4 pa -33.2 u,v (fr/asec) 0.000 0.000 ion window (TEC) 0.00 0.00  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bb.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bb.W.114.zpwvdj simultaneous interpolator

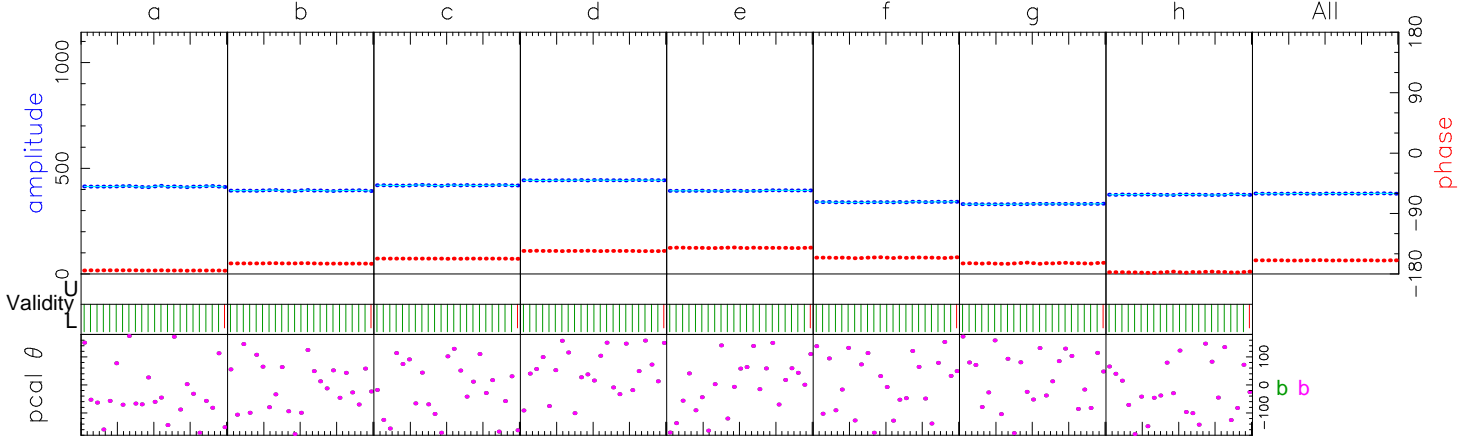


Fringe quality 8

SNR 11420.7  
Int time 239.993  
Amp 381.251  
Phase -159.7  
PFD 0.0e+00  
Delays (us)  
SBD -0.016973  
MBD -0.001648  
Fringe rate (Hz) 0.000001  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500

Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024554  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

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

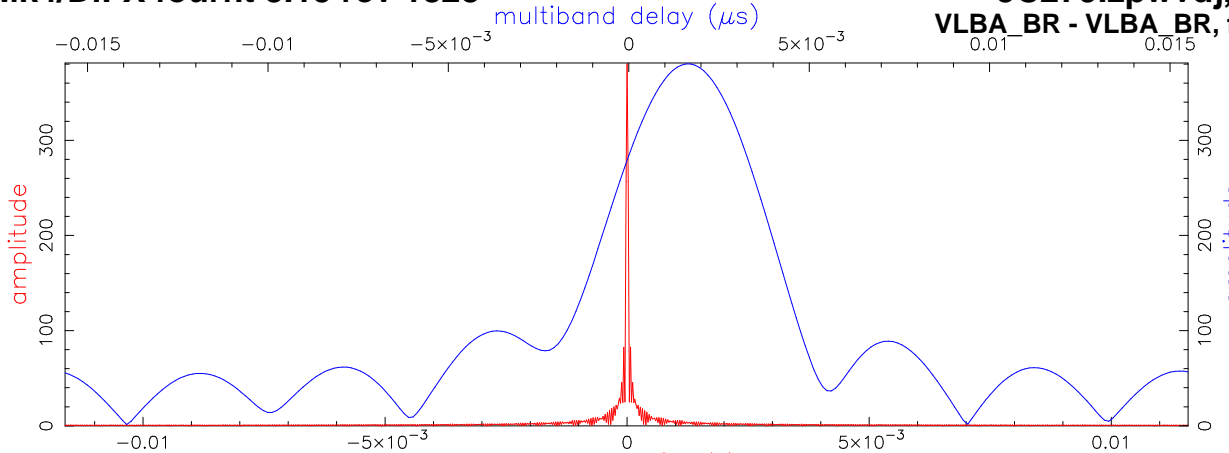


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-174.6	-164.2	-157.1	-145.7	-141.0	-155.7	-164.0	-177.3	Phase	-159.7
	413.8	394.5	419.6	443.5	394.2	340.2	331.0	375.3	Ampl.	389.0
	127.0	126.9	126.9	126.9	126.8	126.7	126.6	126.6	Sbd box	126.8
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:b	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	
b	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
b									Chan ids	
b									Tracks	

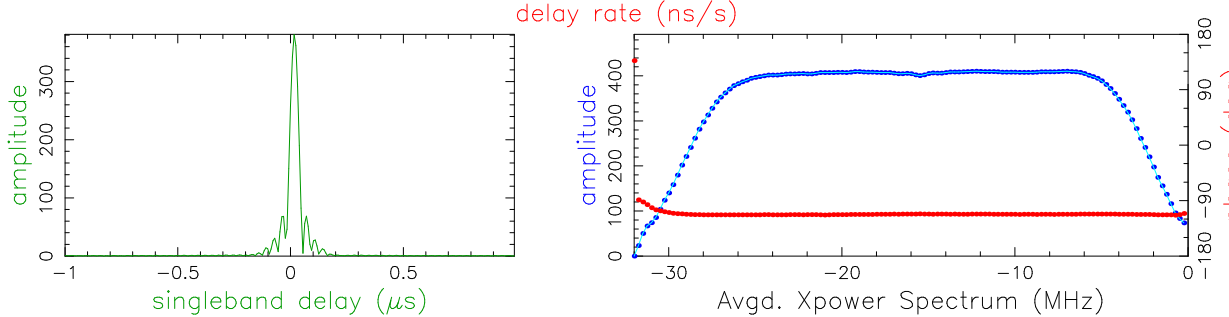
Group delay (usec)(sbd) -1.64768750000E-03 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) -1.64769E-03 +/- 1.9E-07  
 Sband delay (usec) -1.69725000000E-02 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) -1.69725E-02 +/- 1.5E-06  
 Phase delay (usec) -5.14909956685E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -5.14910E-06 +/- 3.2E-10  
 Delay rate (us/s) 5.80450429533E-12 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) 5.80450E-12 +/- 2.3E-12  
 Total phase (deg) -159.7 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) -159.7 +/- 0.0

RMS Theor. Amplitude 381.251 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.2 0.0 Search (1024X32) 376.634 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 0.3 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 13.8 0.0 Inc. seg. avg. 380.386 Sample rate(MSamp/s): 64 dr window (ns/s) -0.012 0.012  
 amp/frq (%) 9.7 0.0 Inc. frq. avg. 389.016 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

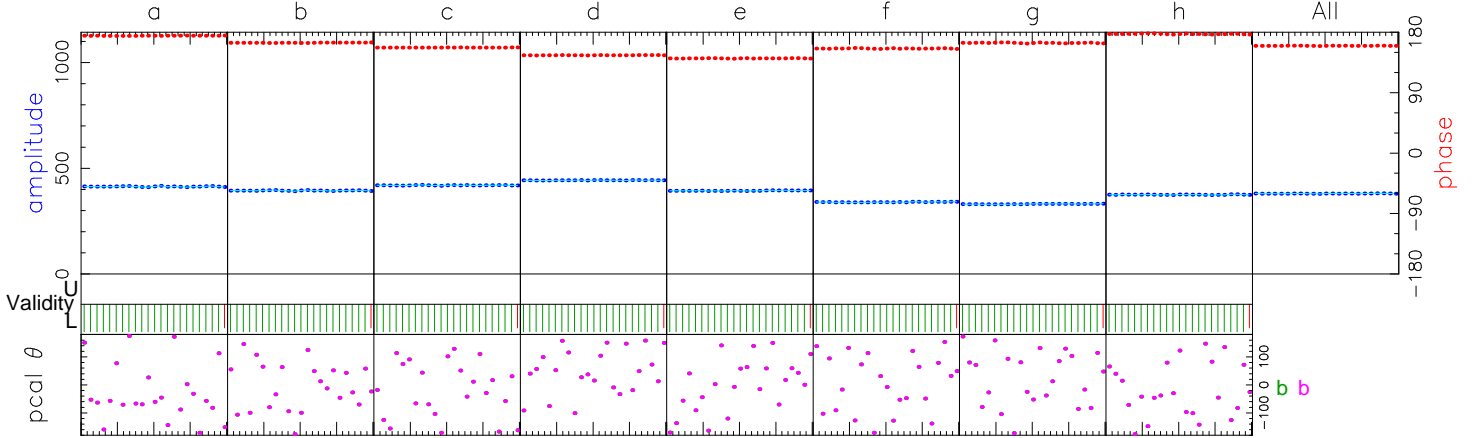
b: az 125.4 el 20.4 pa -33.2 b: az 125.4 el 20.4 pa -33.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bb.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bb.W.115.zpwvdj



Fringe quality 8  
 SNR 11420.7  
 Int time 239.993  
 Amp 381.251  
 Phase 159.7  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.016973  
 MBD 0.001648  
 Fringe rate (Hz)  
 -0.000001  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024555  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"



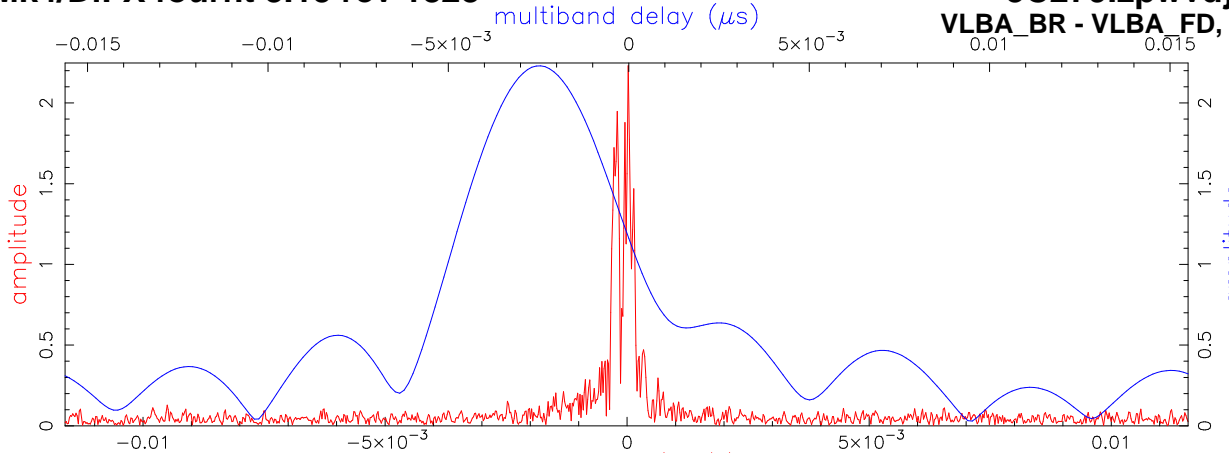
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



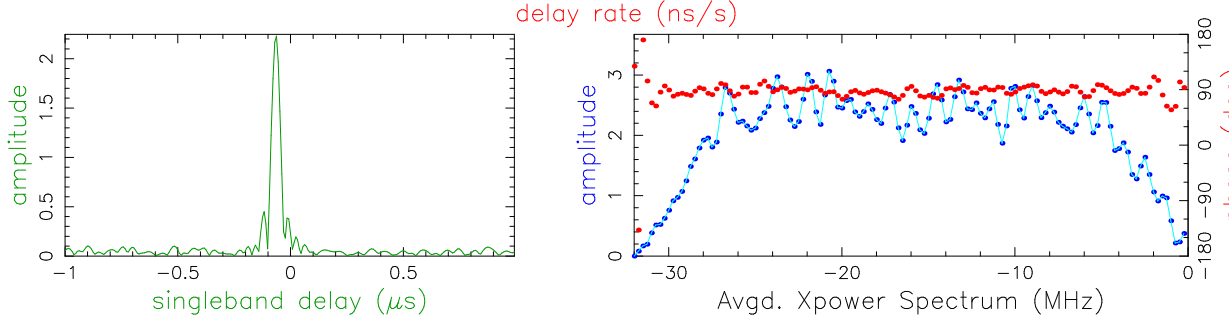
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b	1000	1000	1000	1000	1000	1000	1000	1000	ManI PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

Group delay (usec)(sbd) 1.64768750000E-03 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) 1.64769E-03 +/- 1.9E-07  
 Sband delay (usec) 1.69725000000E-02 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 1.69725E-02 +/- 1.5E-06  
 Phase delay (usec) 5.14909956694E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 5.14910E-06 +/- 3.2E-10  
 Delay rate (us/s) -5.80450429533E-12 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -5.80450E-12 +/- 2.3E-12  
 Total phase (deg) 159.7 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 159.7 +/- 0.0

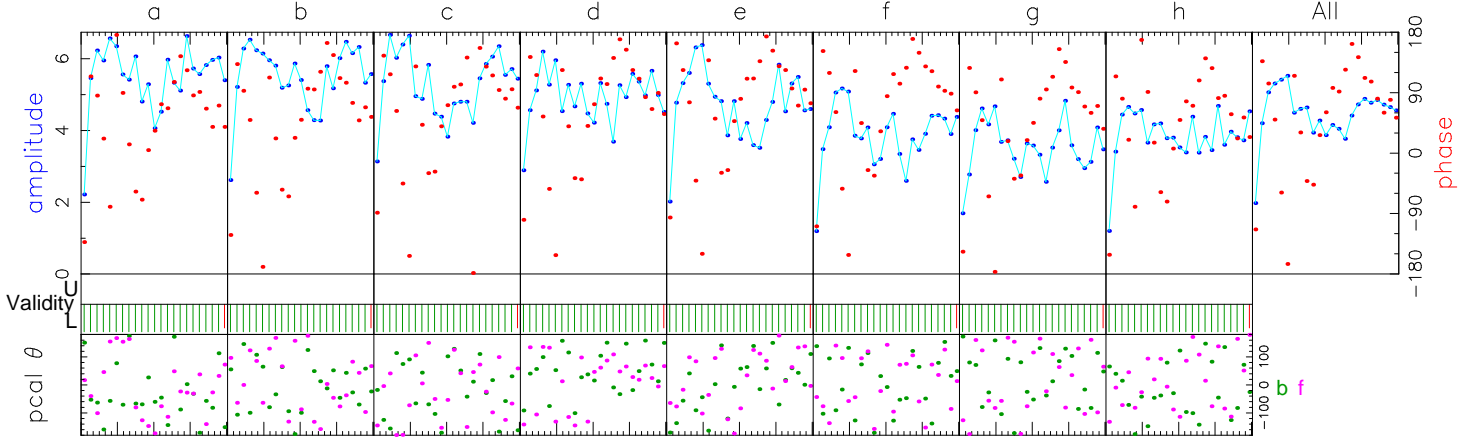
ph/seg (deg) 0.2 0.0 Search (1024X32) 376.634 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 0.3 0.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 13.8 0.0 Inc. seg. avg. 380.386 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 9.7 0.0 Inc. frq. avg. 389.016 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 simultaneous interpolator



Fringe quality 4  
SNR 67.3  
Int time 239.986  
Amp 2.248  
Phase 447.4  
PFD 0.0e+00  
Delays (us)  
SBD -0.064902  
MBD -0.002490  
Fringe rate (Hz) 0.002528  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024349  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"



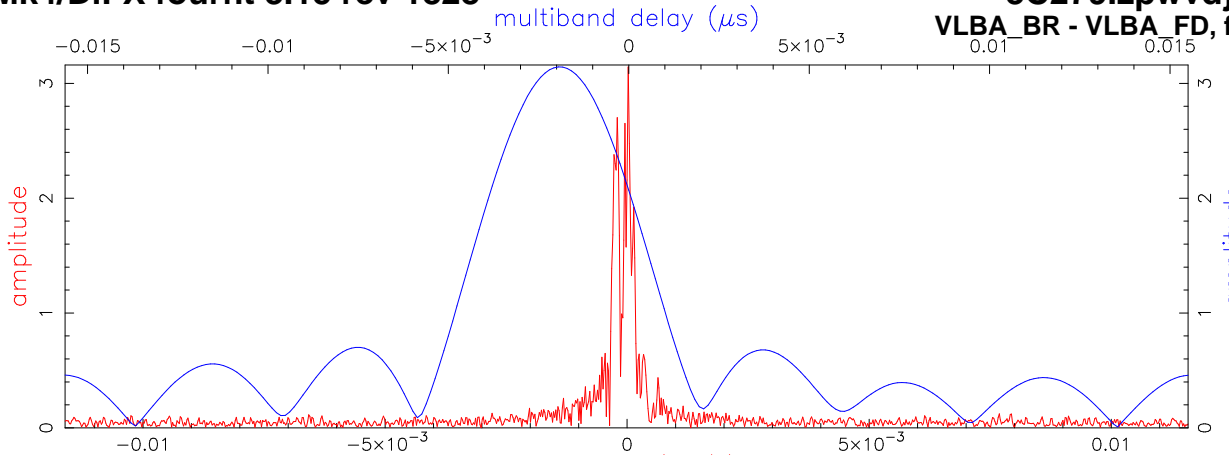
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



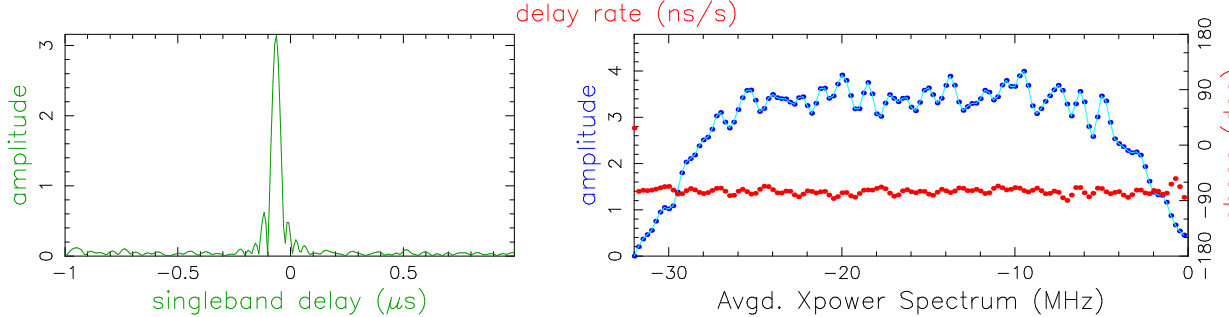
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	120.6	120.7
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	1000	
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	1000	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		Chan ids
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		Tracks
Group delay (usec)(sbd)	-6.48143495055E+03		Apriori delay (usec)		-6.48136996063E+03		Resid mbdelay (usec)		-2.48992E-03	+/- 3.2E-05
Sband delay (usec)	-6.48143486313E+03		Apriori clock (usec)		-3.7104468E+00		Resid sbdelay (usec)		-6.49025E-02	+/- 2.6E-04
Phase delay (usec)	-6.48136995781E+03		Apriori clockrate (us/s)		4.3343438E-07		Resid phdelay (usec)		2.81984E-06	+/- 5.5E-08
Delay rate (us/s)	4.46636996605E-02		Apriori rate (us/s)		4.46636703100E-02		Resid rate (us/s)		2.93505E-08	+/- 4.0E-10
Total phase (deg)	300.5		Apriori accel (us/s/s)		3.17265815557E-05		Resid phase (deg)		447.4	+/- 1.7

ph/seg (deg) 72.0 4.1 Search (1024X32) 2.128 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 103.9 7.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 17.9 2.4 Inc. seg. avg. 4.463 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 14.6 4.2 Inc. frq. avg. 2.310 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 b: az 125.4 el 20.4 pa -33.2 f: az 132.0 el 40.8 pa -39.8 u,v (fr/asec) -233.589 1814.633 ion window (TEC) 0.00 0.00

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bf..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bf.W.1.zpwvdj simultaneous interpolator

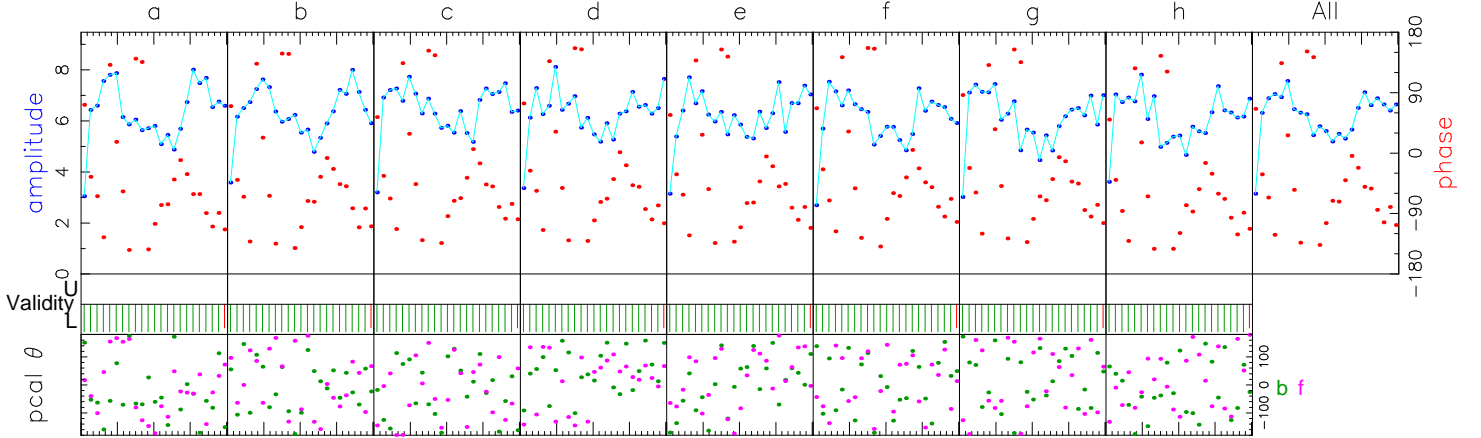


Fringe quality 5  
 SNR 94.7  
 Int time 239.986  
 Amp 3.160  
 Phase 284.5  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.064432  
 MBD -0.001916  
 Fringe rate (Hz) 0.002410  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024350  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"



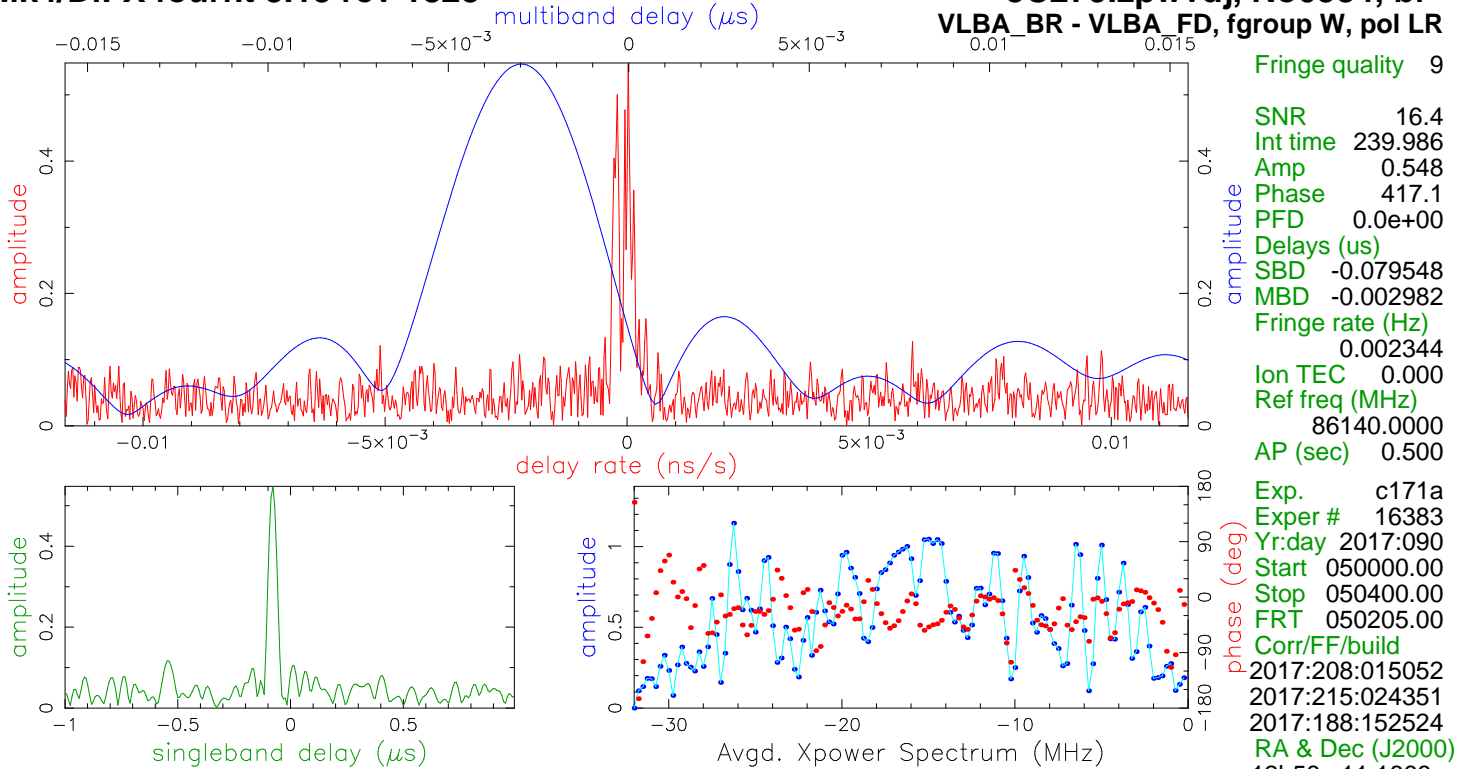
Amplitude vs phase (deg) plot showing phase (deg) vs amplitude. The x-axis ranges from -180 to 180 degrees, and the y-axis ranges from 0 to 4 amplitude units. The plot shows a blue curve for phase and a red curve for amplitude.

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
	-80.7	-78.0	-70.1	-72.3	-76.6	-71.2	-69.9	-85.1	Phase	-75.5
	3.2	3.1	3.3	3.2	3.2	3.2	2.9	3.1	Ampl.	3.2
	120.7	120.7	120.9	120.8	120.8	120.9	120.5	120.7	Sbd box	120.8
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	
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	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	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
f	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.48143437680E+03		Apriori delay (usec)		-6.48136996063E+03		Resid mbdelay (usec)		-1.91617E-03	+/- 2.3E-05
Sband delay (usec)	-6.48143439213E+03		Apriori clock (usec)		-3.7104468E+00		Resid sbdelay (usec)		-6.44315E-02	+/- 1.8E-04
Phase delay (usec)	-6.48136996306E+03		Apriori clockrate (us/s)		4.3343438E-07		Resid phdelay (usec)		-2.43460E-06	+/- 3.9E-08
Delay rate (us/s)	4.46636982863E-02		Apriori rate (us/s)		4.46636703100E-02		Resid rate (us/s)		2.79763E-08	+/- 2.8E-10
Total phase (deg)	137.5		Apriori accel (us/s/s)		3.17265815557E-05		Resid phase (deg)		284.5	+/- 1.2

ph/seg (deg) 71.1 2.9 Search (1024X32) 3.086 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 99.9 5.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 6.0 1.7 Inc. seg. avg. 6.177 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 3.2 3.0 Inc. frq. avg. 3.156 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 b: az 125.4 el 20.4 pa -33.2 f: az 132.0 el 40.8 pa -39.8 u,v (fr/asec) -233.589 1814.633 simultaneous interpolator



Fringe quality 9

SNR 16.4

Int time 239.986

Amp 0.548

Phase 417.1

PFD 0.0e+00

Delays (us)

SBD -0.079548

MBD -0.002982

Fringe rate (Hz) 0.002344

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:090

Start 050000.00

Stop 050400.00

FRT 050205.00

Corr/FF/build

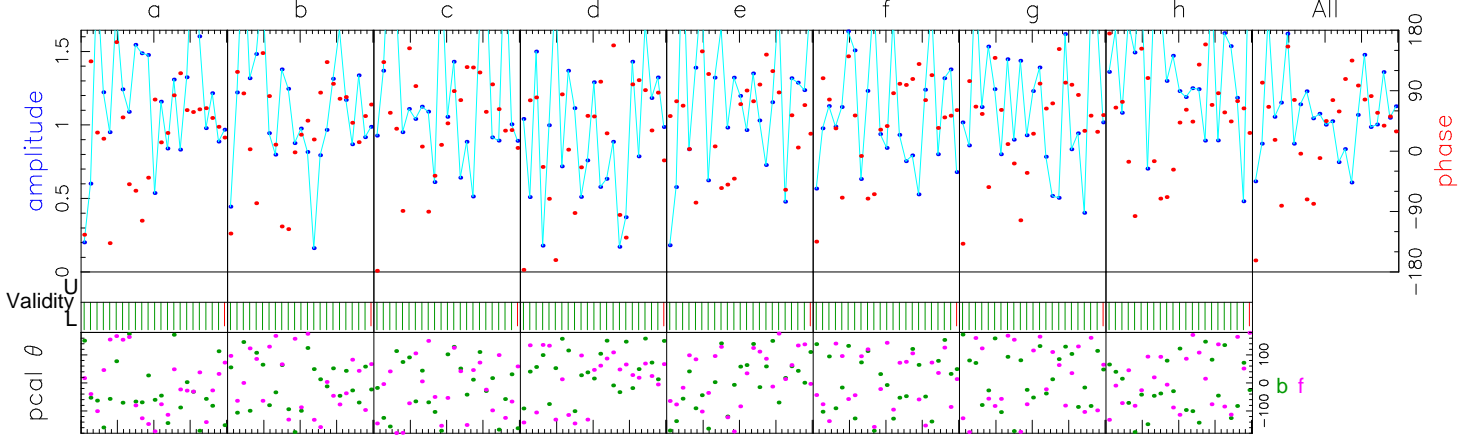
2017:208:015052

2017:215:024351

2017:188:152524

RA & Dec (J2000) 12h56m11.1666s -5°47'21.525"

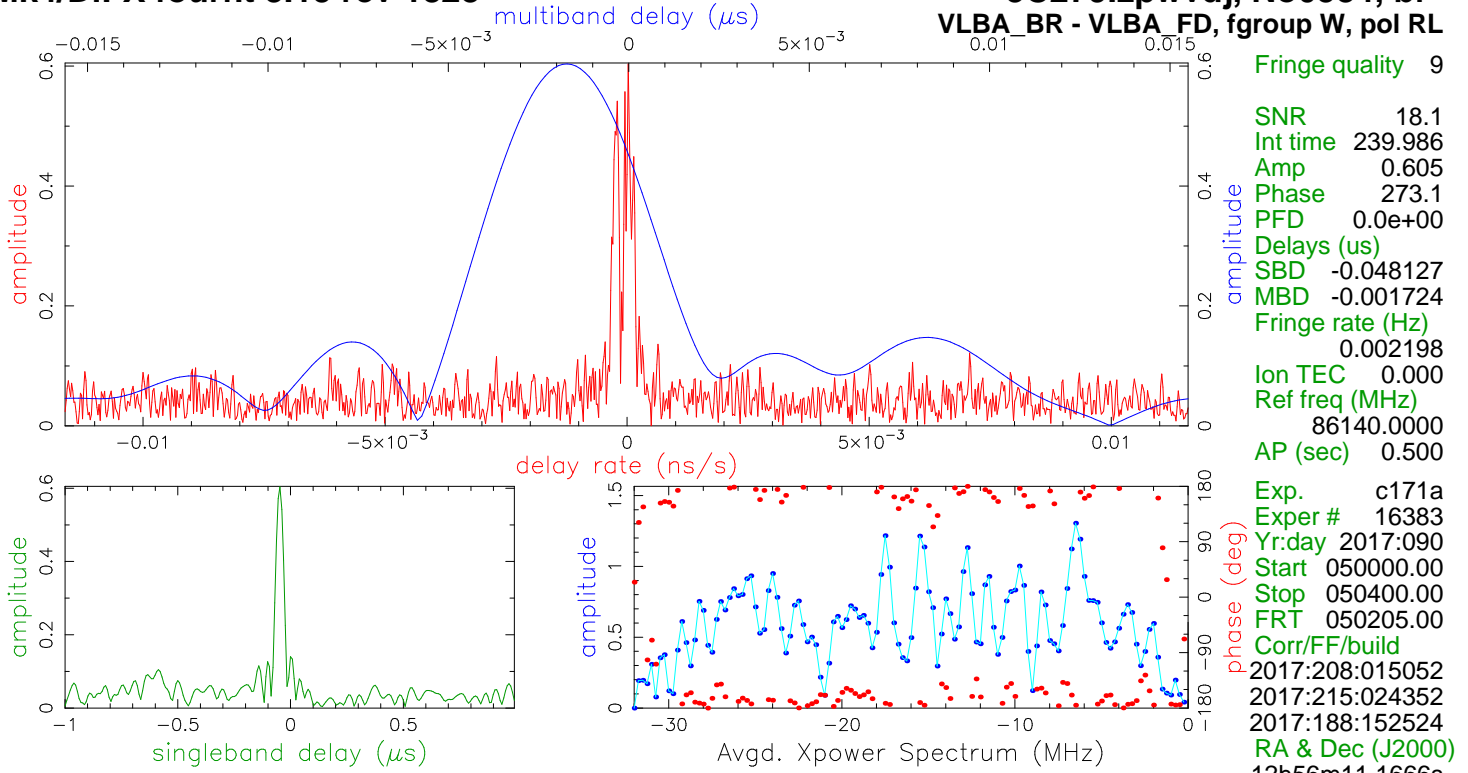
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	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	118.8	57.1
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	0.6	0.5
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	118.7	118.8
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.6	0.5
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.6	0.5
b	1000	1000	1000	1000	1000	1000	1000	1000	0.6	0.5
f	1000	1000	1000	1000	1000	1000	1000	1000	0.6	0.5
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	118.8	118.8
f	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	118.8	118.8
Group delay (usec)(sbd)	-6.48143544242E+03		Apriori delay (usec)		-6.48136996063E+03		Resid mbdelay (usec)		-2.98180E-03	+/- 1.3E-04
Sband delay (usec)	-6.48144950813E+03		Apriori clock (usec)		-3.7104468E+00		Resid sbdelay (usec)		-7.95475E-02	+/- 1.0E-03
Phase delay (usec)	-6.48136995878E+03		Apriori clockrate (us/s)		4.3343438E-07		Resid phdelay (usec)		1.84153E-06	+/- 2.2E-07
Delay rate (us/s)	4.46636975230E-02		Apriori rate (us/s)		4.46636703100E-02		Resid rate (us/s)		2.72130E-08	+/- 1.6E-09
Total phase (deg)	270.1		Apriori accel (us/s/s)		3.17265815557E-05		Resid phase (deg)		417.1	+/- 7.0
ph/seg (deg)	RMS 68.9	Theor. 16.7	Amplitude 16.7	Search (1024X32) 0.538	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000 1.000
amp/seg (%)	108.3	29.2	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)	13.0	9.9	Inc. seg. avg. 1.031	0.548	Bits/sample: 2x2		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012 0.012
amp/frq (%)	17.9	17.2	Inc. frq. avg. 0.548	0.548	Data rate(Mb/s): 1024		nlags: 128 t_cohere infinite		ion window (TEC)	0.00 0.00

b: az 125.4 el 20.4 pa -33.2 f: az 132.0 el 40.8 pa -39.8 u,v (fr/asec) -233.589 1814.633 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bf..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/bf.W.3.zpwwdj



Fringe quality 9

SNR 18.1

Int time 239.986

Amp 0.605

Phase 273.1

PFD 0.0e+00

Delays (us)

SBD -0.048127

MBD -0.001724

Fringe rate (Hz) 0.002198

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:090

Start 050000.00

Stop 050400.00

FRT 050205.00

Corr/FF/build

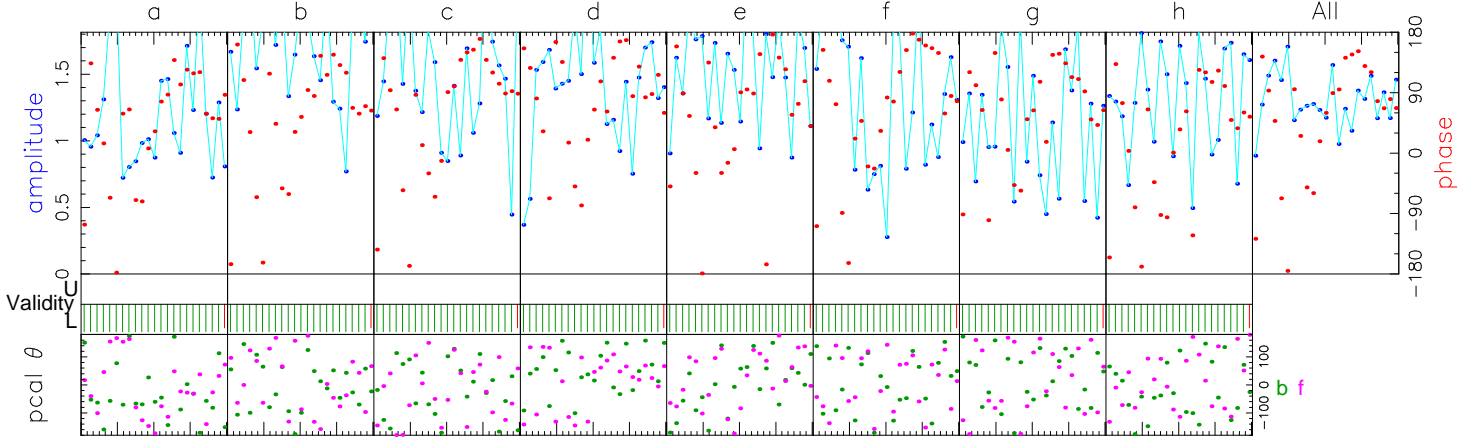
2017:208:015052

2017:215:024352

2017:188:152524

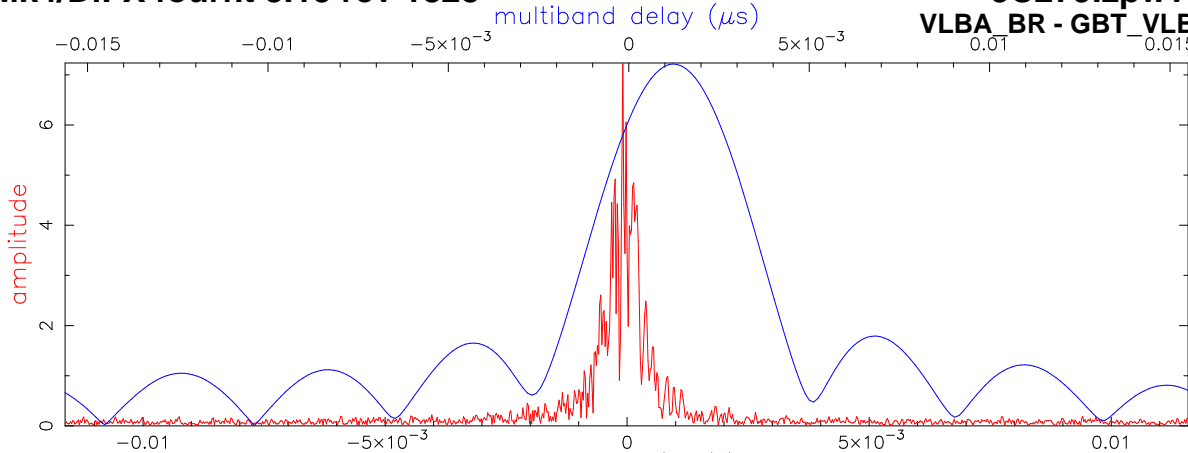
RA & Dec (J2000) 12h56m11.1666s -5°47'21.525"

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		
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	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	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
Group delay (usec)(sbd)	-6.48140293505E+03		Apriori delay (usec)		-6.48136996063E+03		Resid mbdelay (usec)		-1.72442E-03	+/- 1.2E-04
Sband delay (usec)	-6.48141808813E+03		Apriori clock (usec)		-3.7104468E+00		Resid sbdelay (usec)		-4.81275E-02	+/- 9.5E-04
Phase delay (usec)	-6.48136995762E+03		Apriori clockrate (us/s)		4.3343438E-07		Resid phdelay (usec)		3.00382E-06	+/- 2.0E-07
Delay rate (us/s)	4.46636958266E-02		Apriori rate (us/s)		4.46636703100E-02		Resid rate (us/s)		2.55166E-08	+/- 1.5E-09
Total phase (deg)	126.2		Apriori accel (us/s/s)		3.17265815557E-05		Resid phase (deg)		273.1	+/- 6.3
ph/seg (deg)	RMS 74.3	Theor. 15.2	Amplitude 111.8	0.605 +/- 0.033	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000 1.000
amp/seg (%)	119.4	26.5	Search (1024X32) 0.598	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.016 0.016
ph/frq (deg)	14.8	8.9	Interp. 0.000	1.257	Bits/sample: 2x2		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012 0.012
amp/frq (%)	20.9	15.6	Inc. seg. avg. 0.611	0.611	Data rate(Mb/s): 1024		nlags: 128 t_cohere infinite		ion window (TEC)	0.00 0.00
b: az 125.4 el 20.4 pa -33.2 f: az 132.0 el 40.8 pa -39.8 u,v (fr/asec) -233.589 1814.633 simultaneous interpolator										
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0584/bf..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/bf.W.4.zpwwdj										

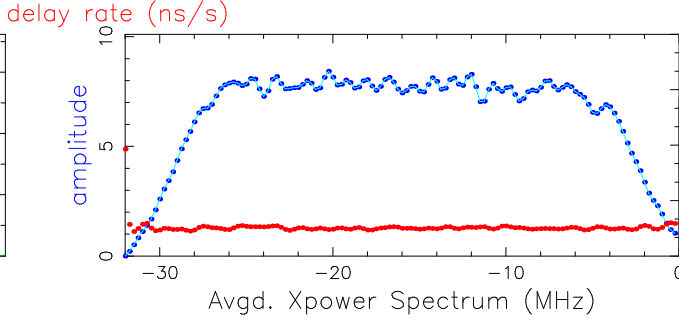
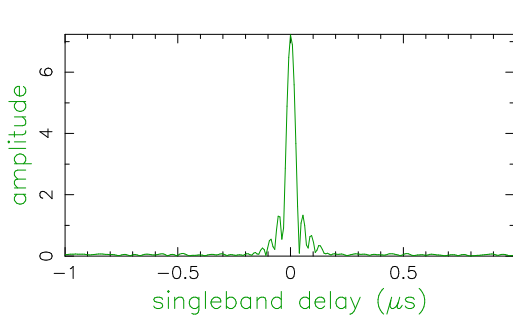




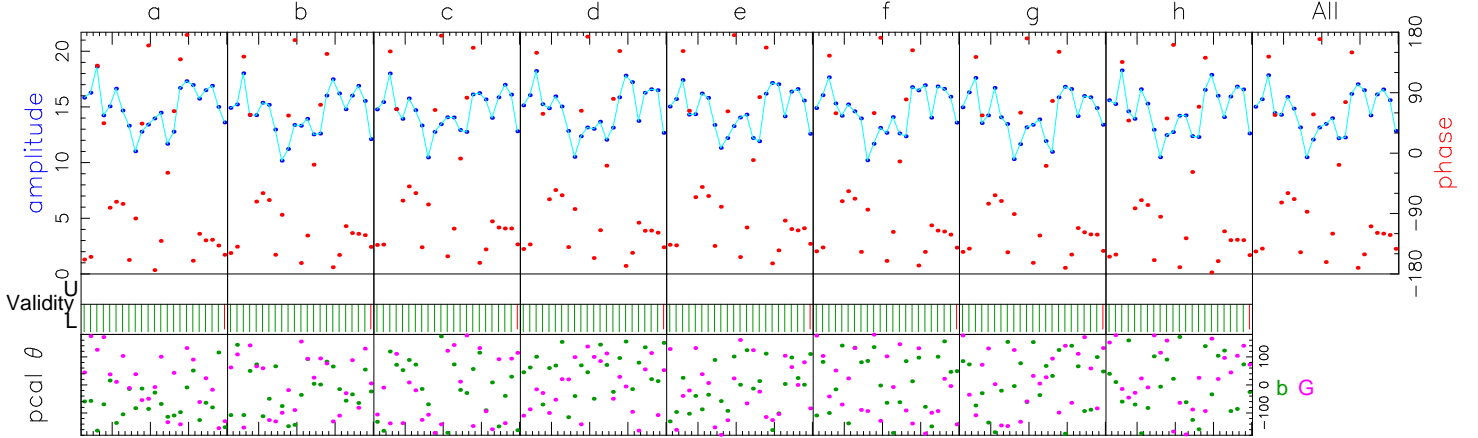
Fringe quality 5

SNR 211.8  
Int time 228.985  
Amp 7.238  
Phase -136.2  
PFD 0.0e+00  
Delays (us)  
SBD 0.001525  
MBD 0.001242  
Fringe rate (Hz)  
-0.007802  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500

Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050011.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024625  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"



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

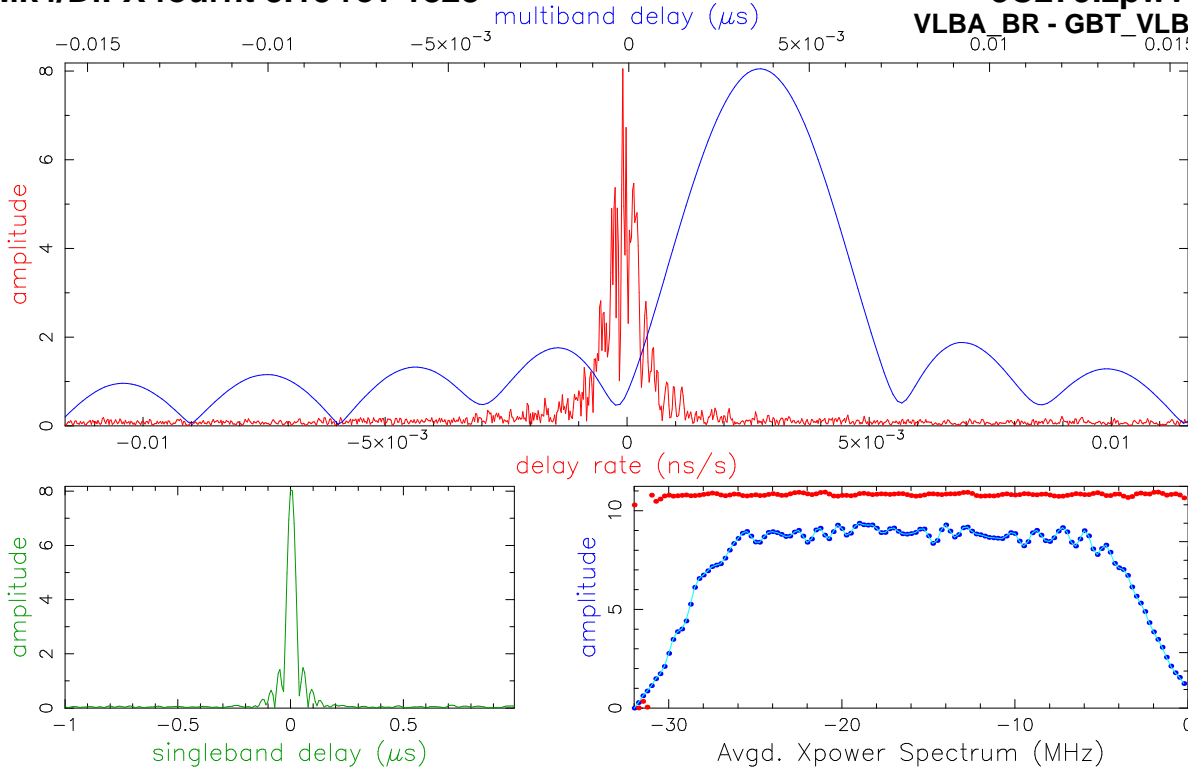


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-147.0	-136.6	-128.6	-131.7	-127.9	-134.6	-137.3	-145.1	Phase	-136.2
	7.4	7.2	7.0	7.2	7.3	7.2	7.4	7.3	Ampl.	7.3
	129.3	129.3	129.2	129.2	129.2	129.1	129.1	129.1	Sbd box	129.2
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	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	
									Tracks	
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	

Group delay (usec)(sbd) -7.45978124615E+03 Apriori delay (usec) -7.45978248802E+03 Resid mbdelay (usec) 1.24187E-03 +/- 1.0E-05  
 Sband delay (usec) -7.45978096302E+03 Apriori clock (usec) 6.7985430E+00 Resid sbdelay (usec) 1.52500E-03 +/- 8.1E-05  
 Phase delay (usec) -7.45978249241E+03 Apriori clockrate (us/s) -2.1937320E-07 Resid phdelay (usec) -4.39061E-06 +/- 1.7E-08  
 Delay rate (us/s) 5.80097544047E-01 Apriori rate (us/s) 5.80097634621E-01 Resid rate (us/s) -9.05749E-08 +/- 1.3E-10  
 Total phase (deg) -322.7 Apriori accel (us/s/s) 3.82793114821E-05 Resid phase (deg) -136.2 +/- 0.5

RMS Theor. Amplitude 7.238 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 74.6 1.3 Search (1024X32) 7.141 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 103.8 2.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 7.6 0.8 Inc. seg. avg. 14.522 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 (%) 1.7 1.3 Inc. frq. avg. 7.265 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

b: az 125.4 el 20.4 pa -33.2 G: az 165.5 el 44.7 pa -11.0 u,v (fr/asec) -3311.875 773.863 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bG.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/bG.W.145.zpwwdj

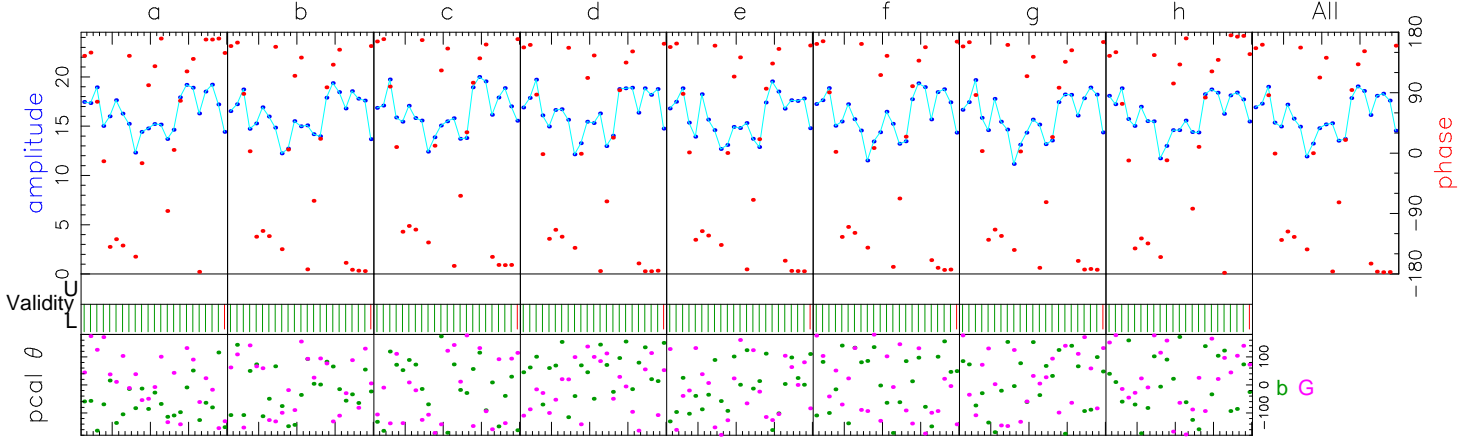


Fringe quality 5

SNR 239.4  
Int time 228.985  
Amp 8.180  
Phase 167.0  
PFD 0.0e+00  
Delays (us)  
SBD 0.003633  
MBD 0.003633  
Fringe rate (Hz)  
-0.007781  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500

Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050011.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024626  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

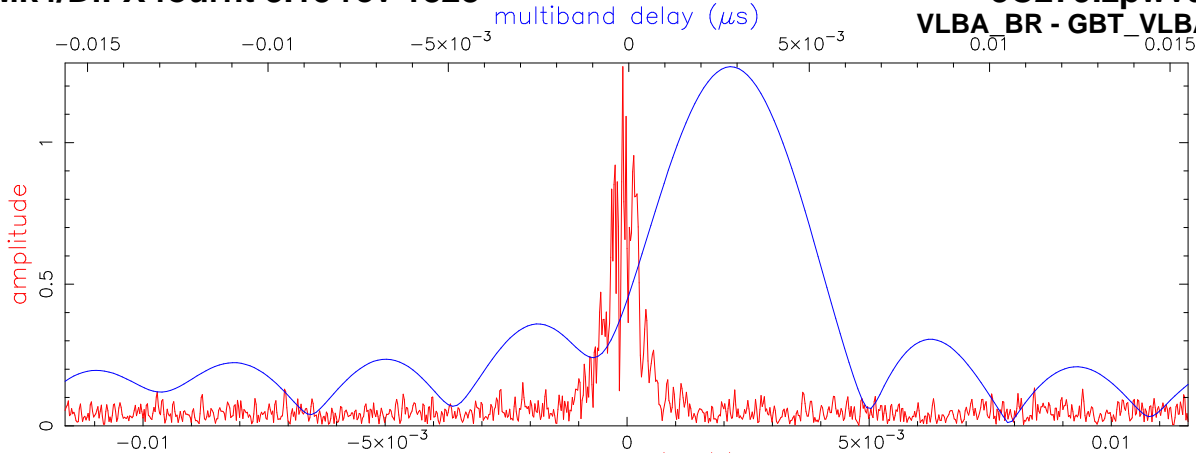
Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	155.5	168.7	176.3	167.6	169.6	171.9	170.1	155.8	Phase	167.0
	8.1	8.1	8.3	8.2	8.0	8.0	8.0	8.1	Ampl.	8.1
	129.6	129.6	129.4	129.3	129.5	129.4	129.4	129.4	Sbd box	129.5
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	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	
									Tracks	
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(sbd)	-7.45977885484E+03		Apriori delay (usec)		-7.45978248802E+03		Resid mbdelay (usec)		3.63318E-03	+/- 9.1E-06
Sband delay (usec)	-7.45977885502E+03		Apriori clock (usec)		6.7985430E+00		Resid sbdelay (usec)		3.63300E-03	+/- 7.2E-05
Phase delay (usec)	-7.45978248264E+03		Apriori clockrate (us/s)		-2.1937320E-07		Resid phdelay (usec)		5.38470E-06	+/- 1.5E-08
Delay rate (us/s)	5.80097544298E-01		Apriori rate (us/s)		5.80097634621E-01		Resid rate (us/s)		-9.03239E-08	+/- 1.2E-10
Total phase (deg)			Apriori accel (us/s/s)		3.82793114821E-05		Resid phase (deg)		167.0	+/- 0.5

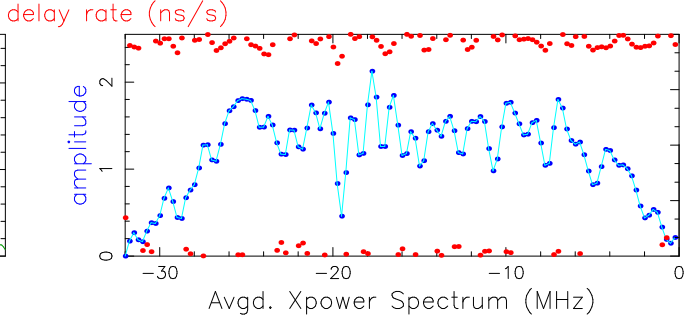
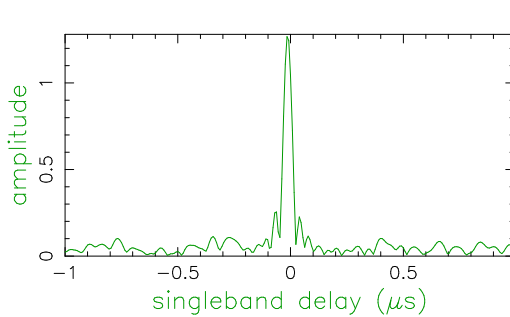
ph/seg (deg) RMS Theor. Amplitude 8.180 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 99.2 2.0 Search (1024X32) 7.968 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 8.0 0.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 1.3 1.2 Inc. seg. avg. 16.058 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. 8.109 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

b: az 125.4 el 20.4 pa -33.2 G: az 165.5 el 44.7 pa -11.0 u,v (fr/asec) -3311.875 773.863 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bG.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/bG.W.146.zpwwdj



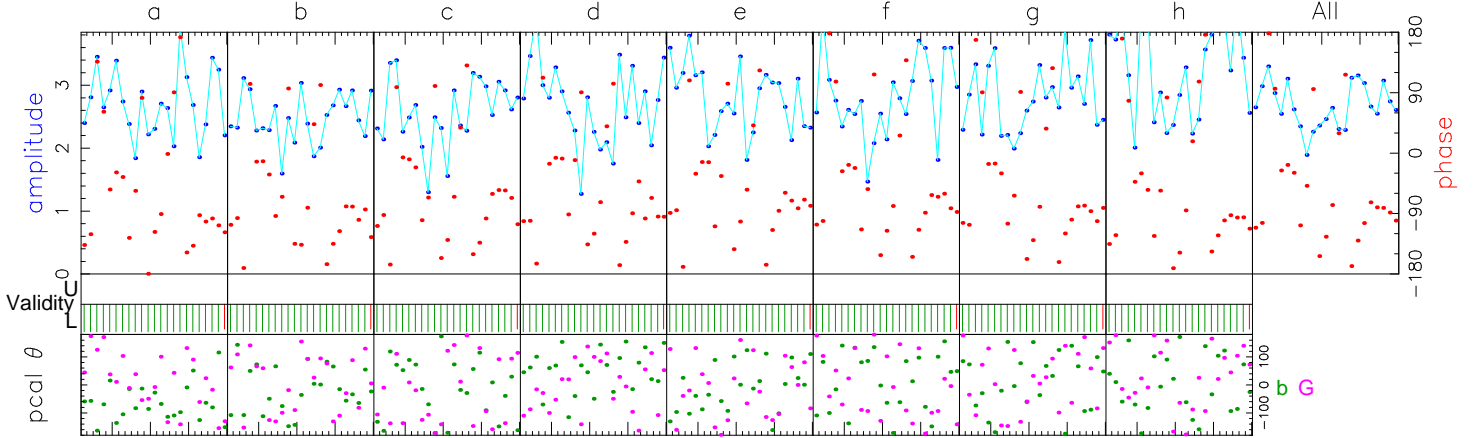
Fringe quality 6

SNR 37.5  
Int time 228.985  
Amp 1.281  
Phase -97.7  
PFD 0.0e+00  
Delays (us)  
SBD -0.012717  
MBD 0.002822  
Fringe rate (Hz)  
-0.007781  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500



Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050011.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024627  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

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

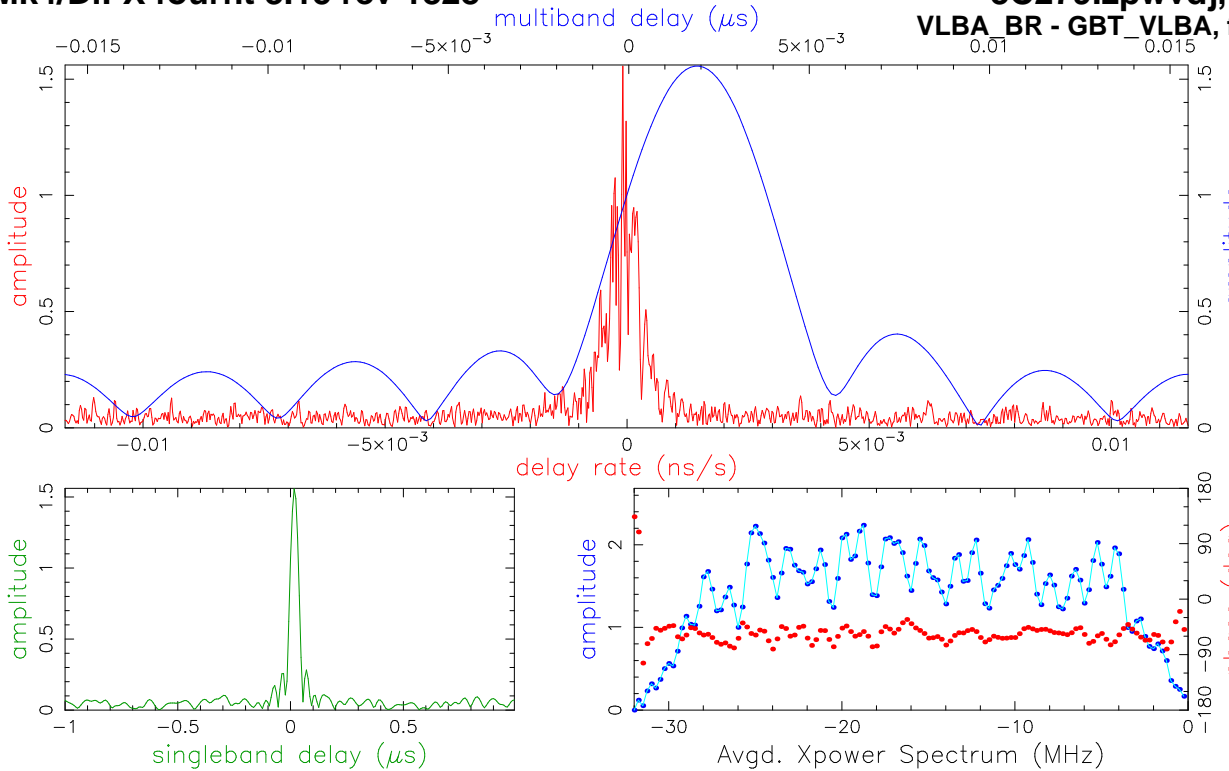


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-112.0	-104.3	-88.6	-89.8	-84.7	-92.1	-94.9	-112.0	Phase	-97.7
	1.1	1.2	1.1	1.3	1.2	1.5	1.3	1.7	Ampl.	1.3
	127.9	127.3	127.8	127.4	127.5	127.3	127.0	127.1	Sbd box	127.4
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	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	
									Tracks	
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	

Group delay (usec)(sbd) -7.45977966553E+03 Apriori delay (usec) -7.45978248802E+03 Resid mbdelay (usec) 2.82250E-03 +/- 5.8E-05  
 Sband delay (usec) -7.45979520452E+03 Apriori clock (usec) 6.7985430E+00 Resid sbdelay (usec) -1.27165E-02 +/- 4.6E-04  
 Phase delay (usec) -7.45978249117E+03 Apriori clockrate (us/s) -2.1937320E-07 Resid phdelay (usec) -3.15045E-06 +/- 9.9E-08  
 Delay rate (us/s) 5.80097544293E-01 Apriori rate (us/s) 5.80097634621E-01 Resid rate (us/s) -9.03282E-08 +/- 7.5E-10  
 Total phase (deg) -284.2 Apriori accel (us/s/s) 3.82793114821E-05 Resid phase (deg) -97.7 +/- 3.1

RMS Theor. Amplitude 1.281 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 75.5 7.3 Search (1024X32) 1.263 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 112.3 12.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 11.6 4.3 Inc. seg. avg. 2.656 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 (%) 14.6 7.5 Inc. frq. avg. 1.285 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

b: az 125.4 el 20.4 pa -33.2 G: az 165.5 el 44.7 pa -11.0 u,v (fr/asec) -3311.875 773.863 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bG..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/bG.W.147.zpwwdj

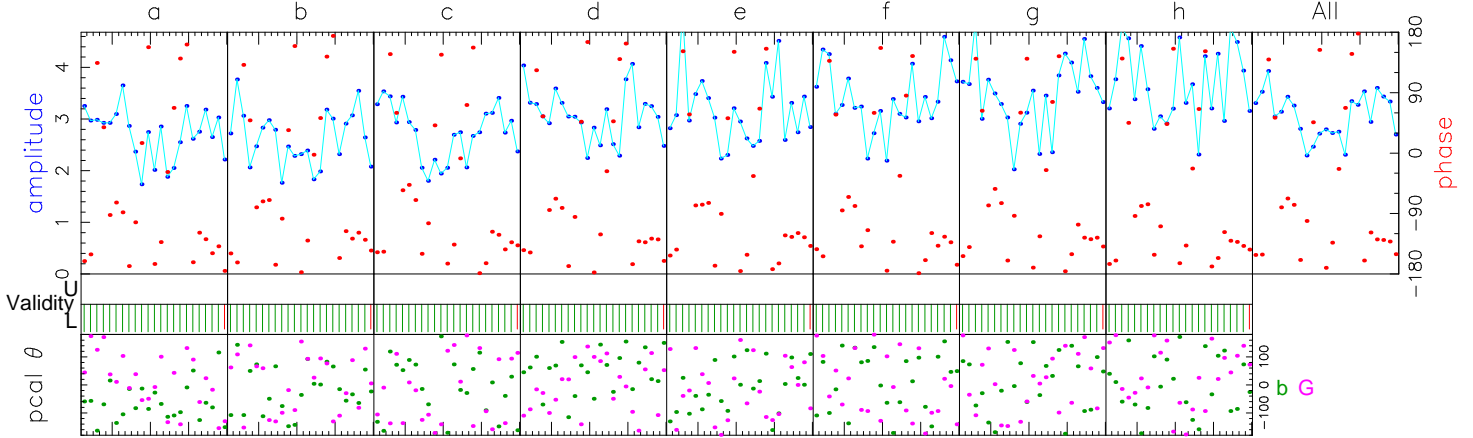


Fringe quality 7

SNR 45.7  
Int time 228.985  
Amp 1.561  
Phase -144.8  
PFD 0.0e+00  
Delays (us)  
SBD 0.017182  
MBD 0.001901  
Fringe rate (Hz)  
-0.007761  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500

Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050011.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024628  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

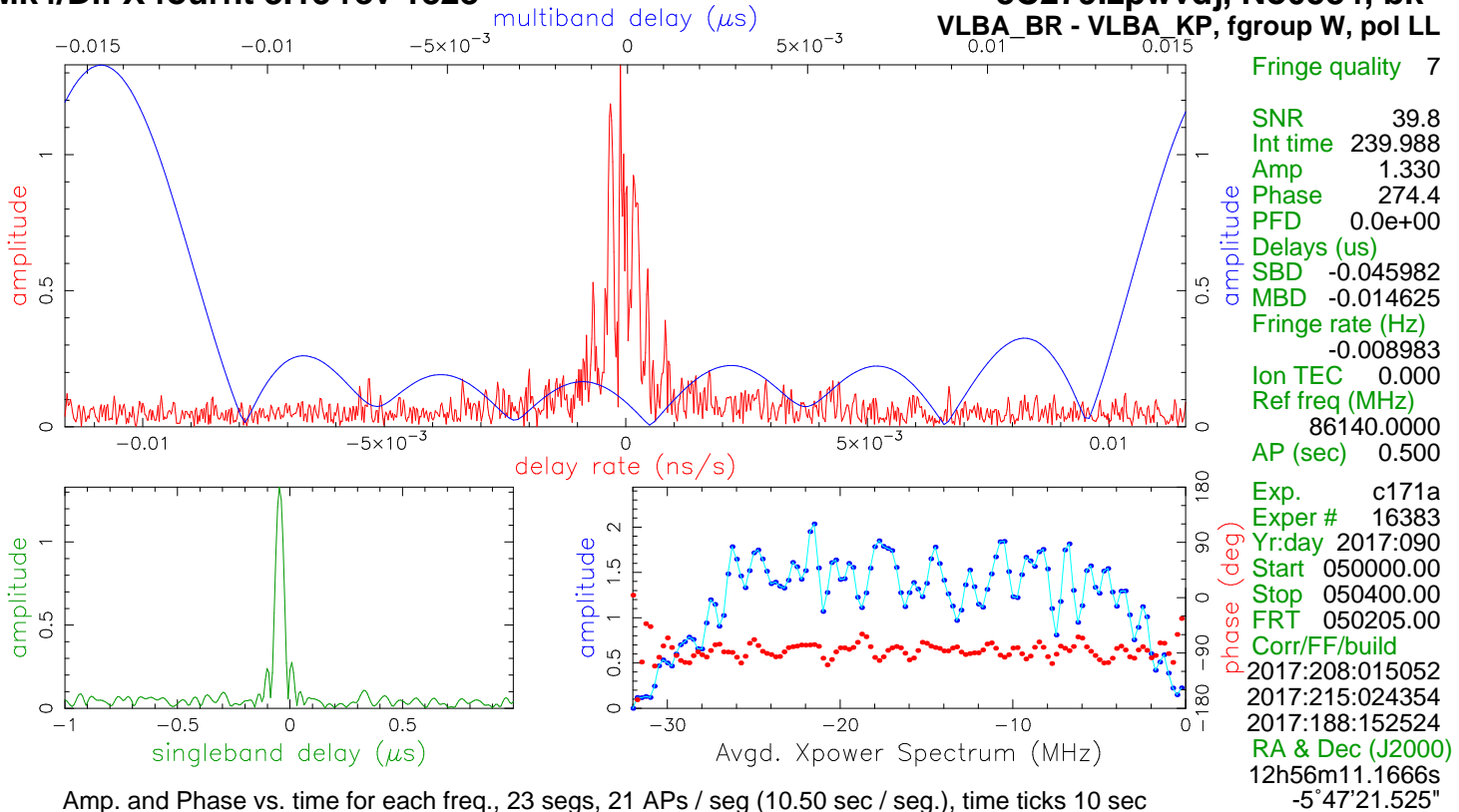
Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



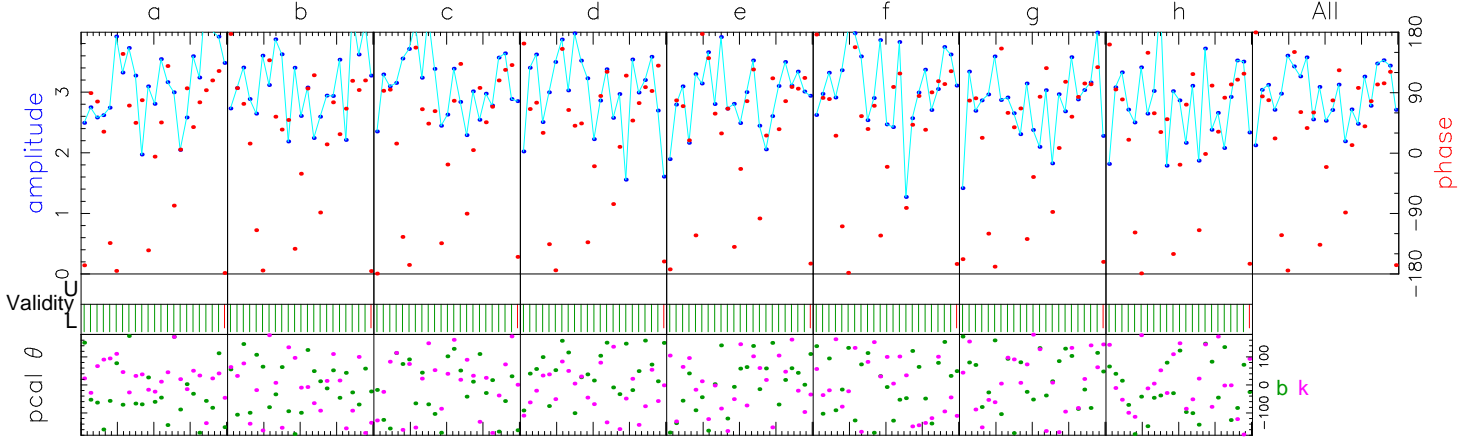
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All		
	-147.3	-144.0	-139.6	-142.9	-147.4	-147.5	-143.3	-145.1	Phase	-144.8		
	1.4	1.3	1.3	1.4	1.6	1.8	1.7	1.9	Ampl.	1.6		
	131.1	131.3	131.1	131.2	131.3	131.1	131.2	131.3	Sbd box	131.2		
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used			
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs			
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	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			
									Tracks			
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids			
									Tracks			
Group delay (usec)(sbd)	-7.45978058671E+03		Apriori delay (usec)		-7.45978248802E+03		Resid mbdelay (usec)		1.90131E-03	+/- 4.8E-05		
Sband delay (usec)	-7.45976530652E+03		Apriori clock (usec)		6.7985430E+00		Resid sbdelay (usec)		1.71815E-02	+/- 3.8E-04		
Phase delay (usec)	-7.45978249269E+03		Apriori clockrate (us/s)		-2.1937320E-07		Resid phdelay (usec)		-4.67003E-06	+/- 8.1E-04		
Delay rate (us/s)	5.80097544530E-01		Apriori rate (us/s)		5.80097634621E-01		Resid rate (us/s)		-9.00917E-08	+/- 6.1E-10		
Total phase (deg)	-331.3		Apriori accel (us/s/s)		3.82793114821E-05		Resid phase (deg)		-144.8	+/- 2.5		
RMS	Theor.	Amplitude	1.561 +/- 0.034		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000 1.000		
ph/seg (deg)	74.3	6.0	Search (1024X32)		1.551		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016 0.016		
amp/seg (%)	100.9	10.5	Interp.		0.000		Bits/sample: 2x2		SampCntNorm: enabled	dr window (ns/s)	-0.012 0.012	
ph/frq (deg)	3.0	3.5	Inc. seg. avg.		3.060		Sample rate(MSamp/s): 64		nlags: 128	t_cohere infinite	ion window (TEC)	0.00 0.00
amp/frq (%)	14.1	6.2	Inc. frq. avg.		1.555		Data rate(Mb/s): 1024					

b: az 125.4 el 20.4 pa -33.2 G: az 165.5 el 44.7 pa -11.0 u,v (fr/asec) -3311.875 773.863 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bG..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/bG.W.148.zpwwdj



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

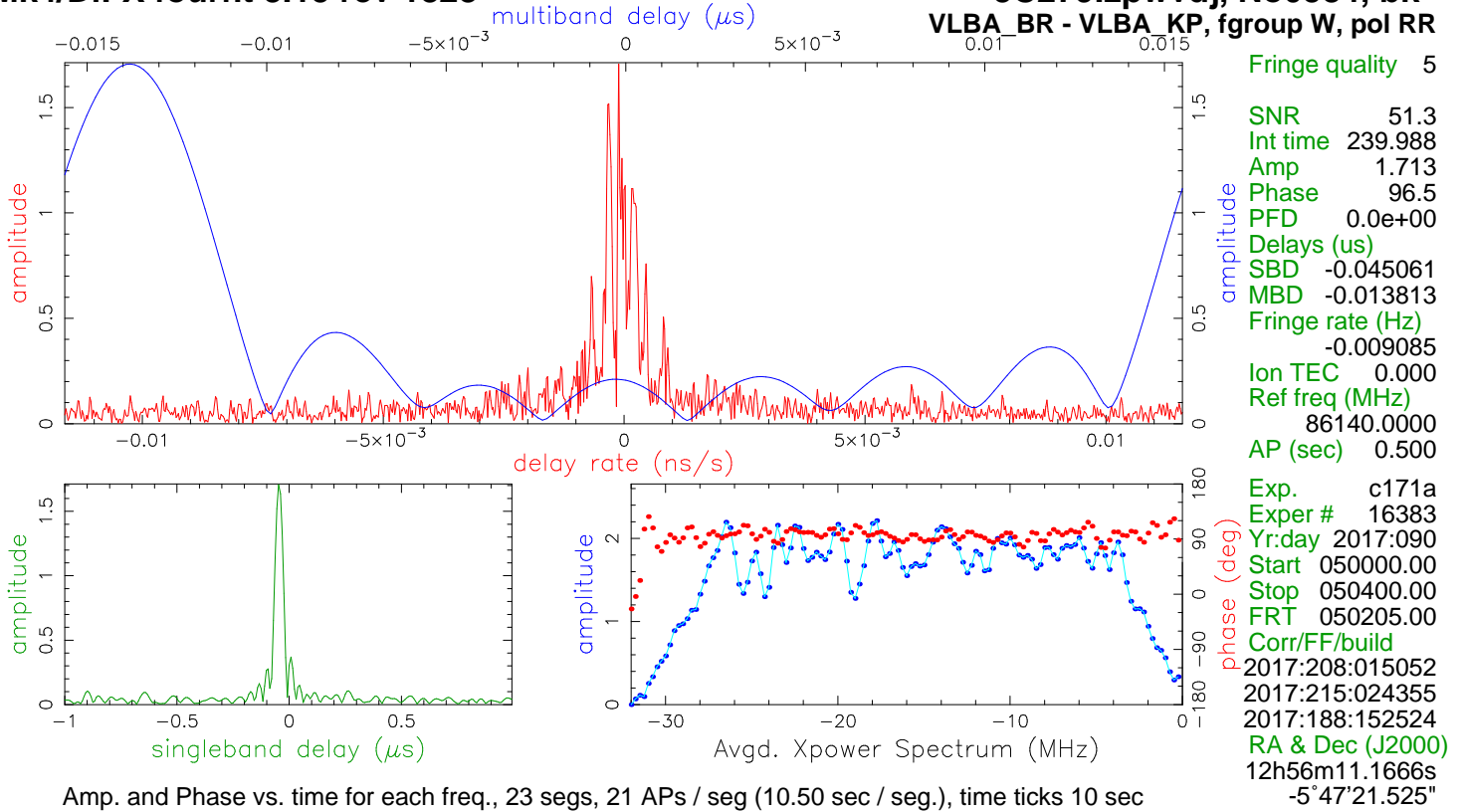


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
97.1	88.9	99.7	88.0	93.2	100.4	97.1	90.3	90.3	Phase	94.4
1.5	1.4	1.3	1.4	1.3	1.4	1.2	1.2	1.2	Ampl.	1.3
123.0	123.4	123.1	123.5	123.0	123.1	123.2	122.8	122.8	Sbd box	123.1
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:k 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:k 0:0	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	1000	PC amp	
k 1000	1000	1000	1000	1000	1000	1000	1000	1000		
b W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		Chan ids	
k W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.75507613244E+03		Apriori delay (usec)	-4.75503025792E+03		Resid mbdelay (usec)	-1.46245E-02	+/-	5.4E-05	
Sband delay (usec)	-4.75507623942E+03		Apriori clock (usec)	-1.3993855E+00		Resid sbdelay (usec)	-4.59815E-02	+/-	4.3E-04	
Phase delay (usec)	-4.75503025488E+03		Apriori clockrate (us/s)	1.4645969E-08		Resid phdelay (usec)	3.04272E-06	+/-	9.3E-08	
Delay rate (us/s)	-8.36816879780E-02		Apriori rate (us/s)	-8.36815836943E-02		Resid rate (us/s)	-1.04284E-07	+/-	6.7E-10	
Total phase (deg)		124.2	Apriori accel (us/s/s)	2.27870506297E-05		Resid phase (deg)	274.4	+/-	2.9	

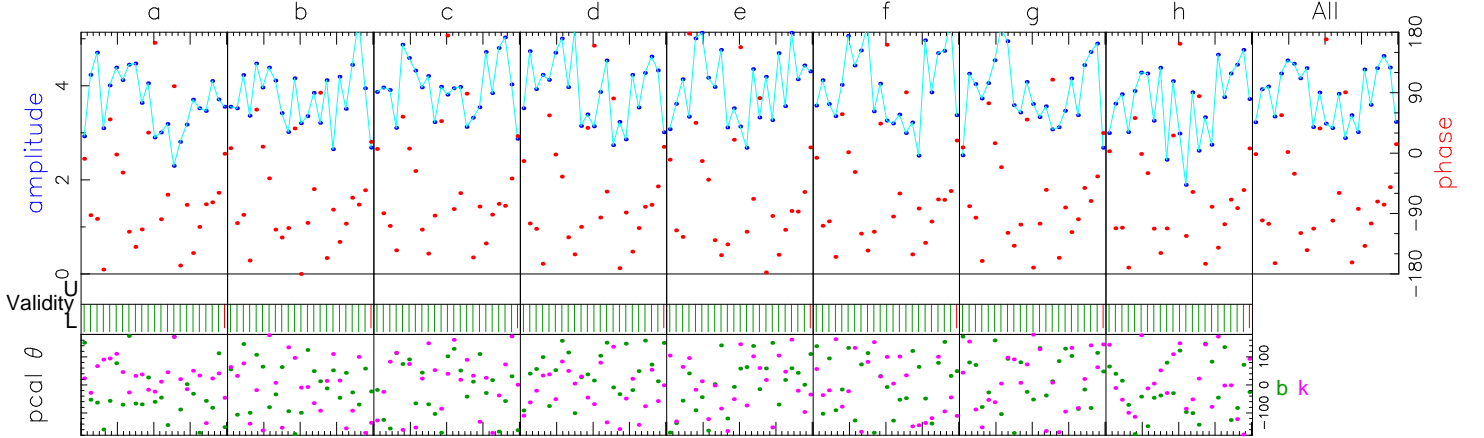
	RMS	Theor.	Amplitude	1.330 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	76.0	6.9	Search (1024X32)	1.238	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
amp/seg (%)	127.9	12.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
ph/frq (deg)	5.3	4.1	Inc. seg. avg.	2.954	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
amp/frq (%)	6.3	7.1	Inc. frq. avg.	1.330	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			

b: az 125.4 el 20.4 pa -33.2 k: az 125.6 el 34.9 pa -43.7 u,v (fr/asec) 498.850 1713.581 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bk.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/bk.W.5.zpvdj



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

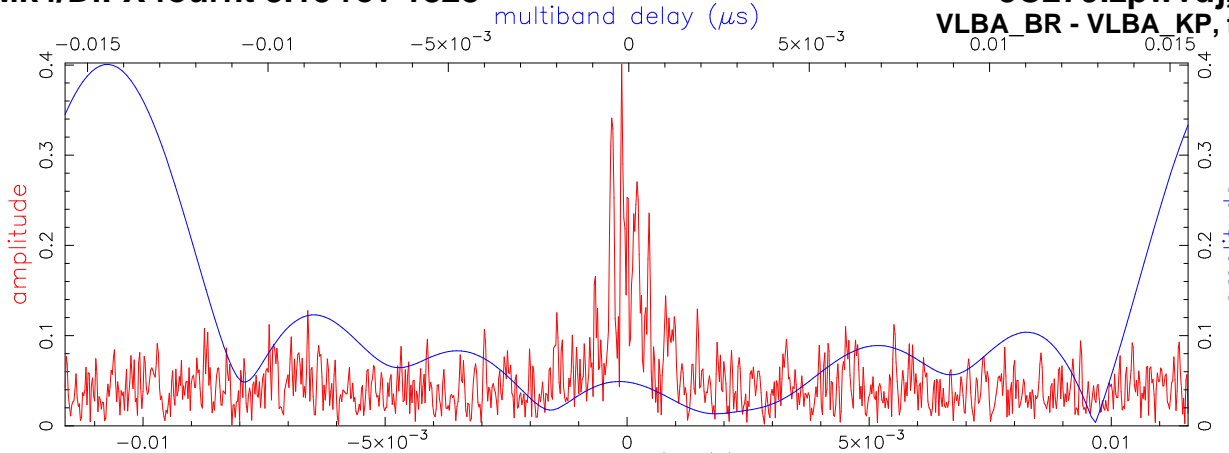


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-83.3	-81.6	-76.8	-88.3	-95.4	-83.2	-77.3	-82.8	Phase	-83.5
	1.7	1.7	1.8	1.8	1.6	1.8	1.7	1.6	Ampl.	1.7
	123.3	123.2	123.3	123.0	123.6	123.3	123.4	122.8	Sbd box	123.2
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		-4.75507532056E+03		Apriori delay (usec)		-4.75503025792E+03		Resid mbdelay (usec)		-1.38126E-02 +/- 4.2E-05
Sband delay (usec)		-4.75507531842E+03		Apriori clock (usec)		-1.3993855E+00		Resid sbdelay (usec)		-4.50605E-02 +/- 3.4E-04
Phase delay (usec)		-4.75503026061E+03		Apriori clockrate (us/s)		1.4645969E-08		Resid phdelay (usec)		-2.69270E-06 +/- 7.2E-08
Delay rate (us/s)		-8.36816891593E-02		Apriori rate (us/s)		-8.36815836943E-02		Resid rate (us/s)		-1.05465E-07 +/- 5.2E-10
Total phase (deg)			-53.7	Apriori accel (us/s/s)		2.27870506297E-05		Resid phase (deg)		96.5 +/- 2.2

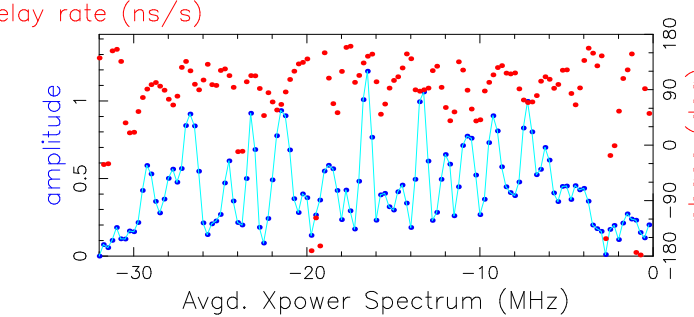
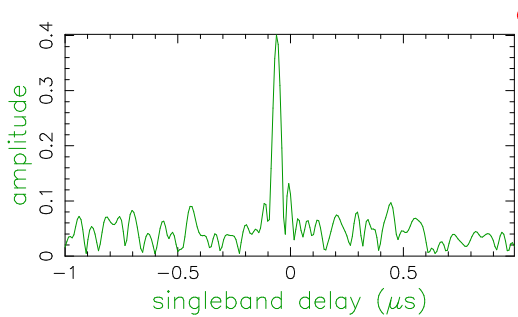
	RMS	Theor.	Amplitude	1.713 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	74.1	5.4	Search (1024X32)	1.616	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
amp/seg (%)	125.9	9.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
ph/frq (deg)	6.5	3.2	Inc. seg. avg.	3.780	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
amp/frq (%)	4.6	5.5	Inc. frq. avg.	1.712	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			

b: az 125.4 el 20.4 pa -33.2 k: az 125.6 el 34.9 pa -43.7 u,v (fr/asec) 498.850 1713.581 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bk.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/bk.W.6.zpvdj

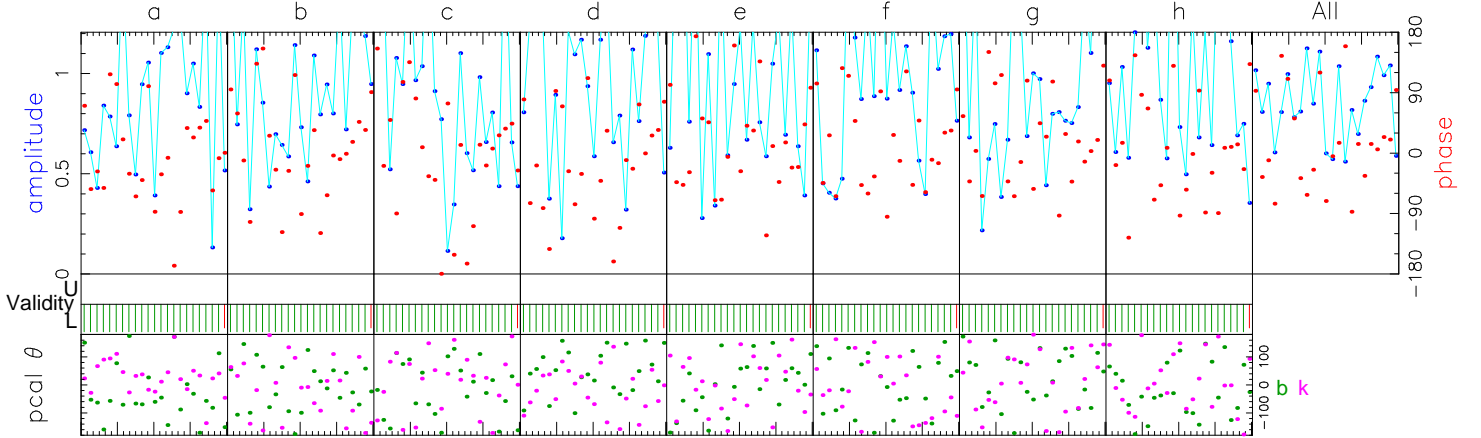


Fringe quality 9  
SNR 12.0  
Int time 239.988  
Amp 0.402  
Phase 187.7  
PFD 2.5e-25  
Delays (us)  
SBD -0.060739  
MBD -0.014462  
Fringe rate (Hz)  
-0.008963  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500



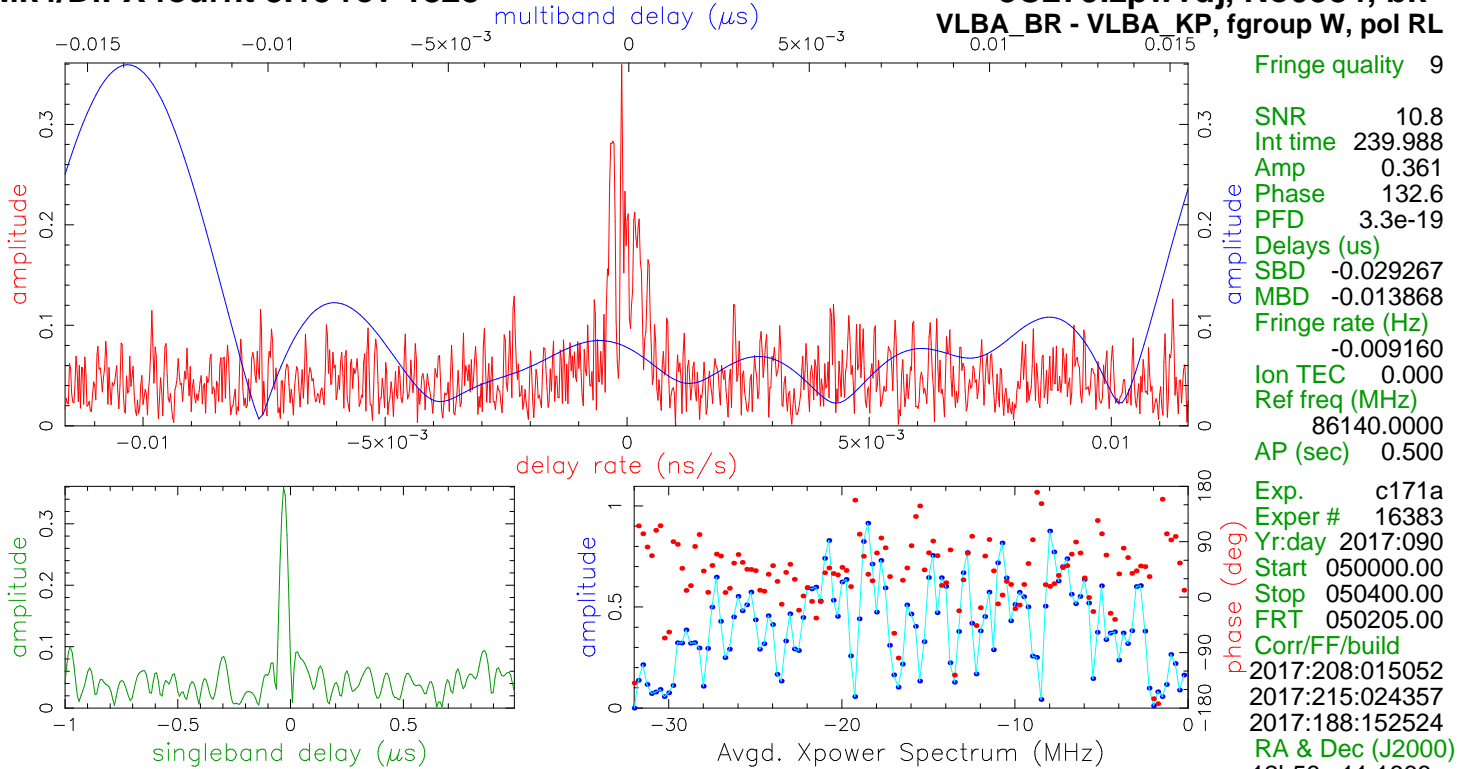
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024356  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

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

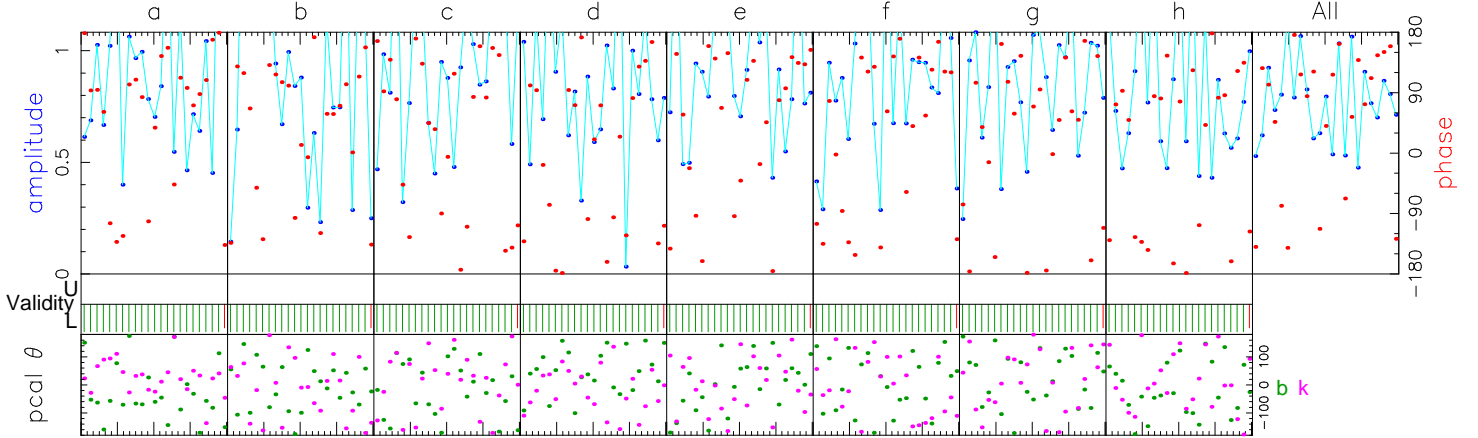


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.75507596969E+03		Apriori delay (usec)		-4.75503025792E+03		Resid mbdelay (usec)		-1.44618E-02	+/- 1.8E-04
Sband delay (usec)	-4.75509099742E+03		Apriori clock (usec)		-1.3993855E+00		Resid sbdelay (usec)		-6.07395E-02	+/- 1.4E-03
Phase delay (usec)	-4.75503025767E+03		Apriori clockrate (us/s)		1.4645969E-08		Resid phdelay (usec)		2.47006E-07	+/- 3.1E-07
Delay rate (us/s)	-8.36816877459E-02		Apriori rate (us/s)		-8.36815836943E-02		Resid rate (us/s)		-1.04052E-07	+/- 2.2E-09
Total phase (deg)	37.5		Apriori accel (us/s/s)		2.27870506297E-05		Resid phase (deg)		187.7	+/- 9.5

ph/seg (deg) 71.0 22.8 Search (1024X32) 0.373 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 121.3 39.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 15.9 13.4 Inc. seg. avg. 0.794 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 17.4 23.5 Inc. frq. avg. 0.402 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 b: az 125.4 el 20.4 pa -33.2 k: az 125.6 el 34.9 pa -43.7 u,v (fr/asec) 498.850 1713.581 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bk.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/bk.W.7.zpvdj

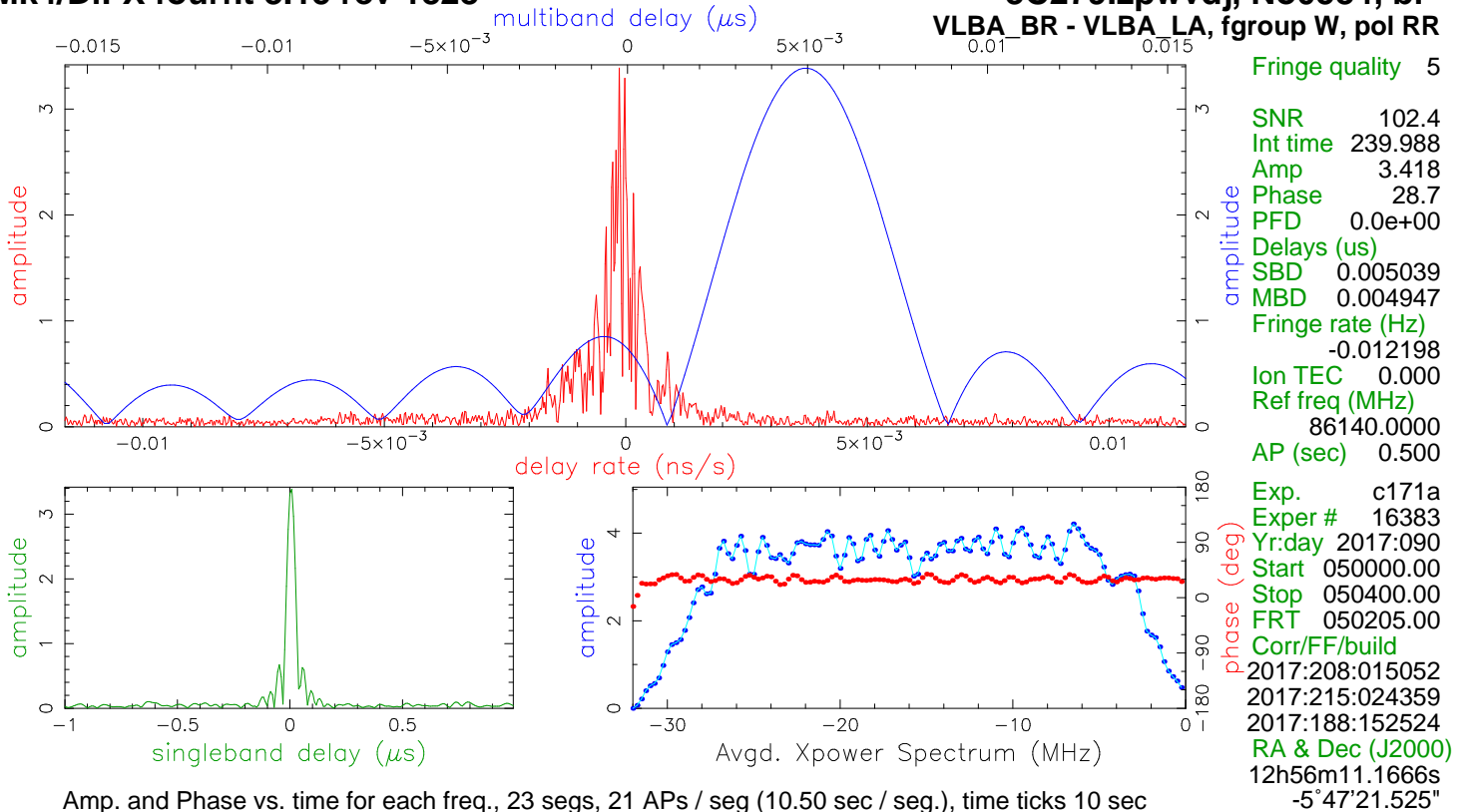


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

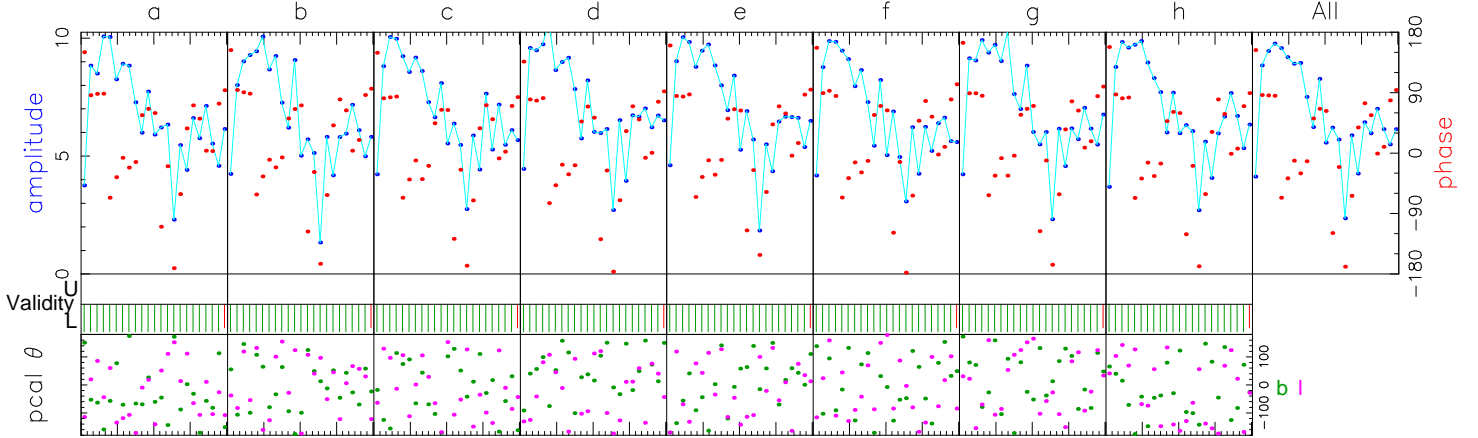


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
140.5	108.1	152.7	156.0	131.7	130.4	120.9	137.5	Phase	132.6	
0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.3	Ampl.	0.4	
124.8	124.3	125.4	3.2	125.6	125.3	19.5	125.2	Sbd box	125.3	
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used		
b -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
k -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
b:k 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
b:k 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		
k 1000	1000	1000	1000	1000	1000	1000	1000			
b W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids		
								Tracks		
k W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids		
								Tracks		
Group delay (usec)(sbd)	-4.75504412600E+03		Apriori delay (usec)	-4.75503025792E+03		Resid mbdelay (usec)	-1.38681E-02	+/-	2.0E-04	
Sband delay (usec)	-4.75505952442E+03		Apriori clock (usec)	-1.3993855E+00		Resid sbdelay (usec)	-2.92665E-02	+/-	1.6E-03	
Phase delay (usec)	-4.75503025364E+03		Apriori clockrate (us/s)	1.4645969E-08		Resid phdelay (usec)	4.27659E-06	+/-	3.4E-07	
Delay rate (us/s)	-8.36816900343E-02		Apriori rate (us/s)	-8.36815836943E-02		Resid rate (us/s)	-1.06340E-07	+/-	2.5E-09	
Total phase (deg)		-17.5	Apriori accel (us/s/s)	2.27870506297E-05		Resid phase (deg)	132.6	+/-	10.6	
RMS	Theor.	Amplitude	0.361 +/- 0.033		Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
ph/seg (deg)	72.0	25.4	Search (1024X32)	0.345	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
amp/seg (%)	126.1	44.3	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	17.2	15.0	Inc. seg. avg.	0.708	Sample rate(MSamp/s):	64		dr window (ns/s)	-0.012	0.012
amp/frq (%)	23.6	26.2	Inc. frq. avg.	0.358	Data rate(Mb/s):	1024	nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00





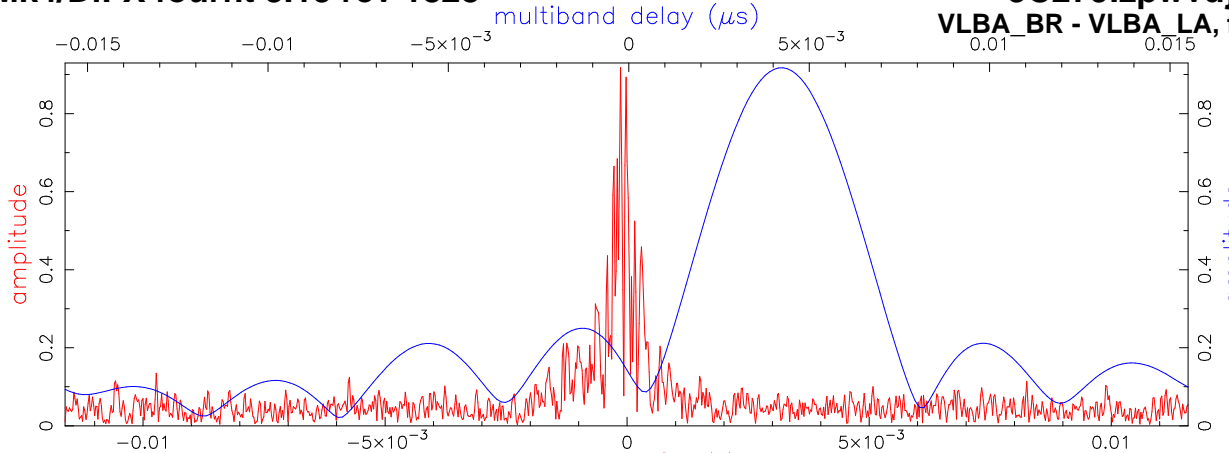
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
l	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Man'l PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
l	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.05924852001E+03		Apriori delay (usec)		-5.05925346710E+03		Resid mbdelay (usec)		4.94709E-03	+/- 2.1E-05
Sband delay (usec)	-5.05924842810E+03		Apriori clock (usec)		-1.9132376E-01		Resid sbdelay (usec)		5.03900E-03	+/- 1.7E-04
Phase delay (usec)	-5.05925346618E+03		Apriori clockrate (us/s)		1.1323990E-07		Resid phdelay (usec)		9.25530E-07	+/- 3.6E-08
Delay rate (us/s)	4.55836431452E-02		Apriori rate (us/s)		4.55837847504E-02		Resid rate (us/s)		-1.41605E-07	+/- 2.6E-10
Total phase (deg)			Apriori accel (us/s/s)		2.50507436239E-05		Resid phase (deg)		28.7	+/- 1.1

	RMS	Theor.	Amplitude	3.418 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	71.8	2.7	Search (1024X32)	3.303	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
amp/seg (%)	116.0	4.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016 0.016
ph/frq (deg)	3.2	1.6	Inc. seg. avg.	6.868	Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012 0.012
amp/frq (%)	4.1	2.8	Inc. frq. avg.	3.391	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite	ion window (TEC)	0.00 0.00

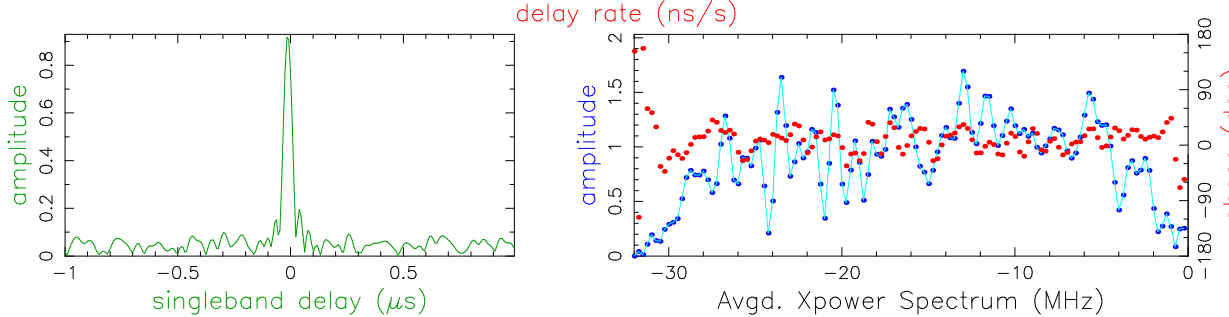
b: az 125.4 el 20.4 pa -33.2 l: az 132.7 el 35.9 pa -36.5 u,v (fr/asec) -243.941 1207.436 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bl..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/bl.W.10.zpwwdj



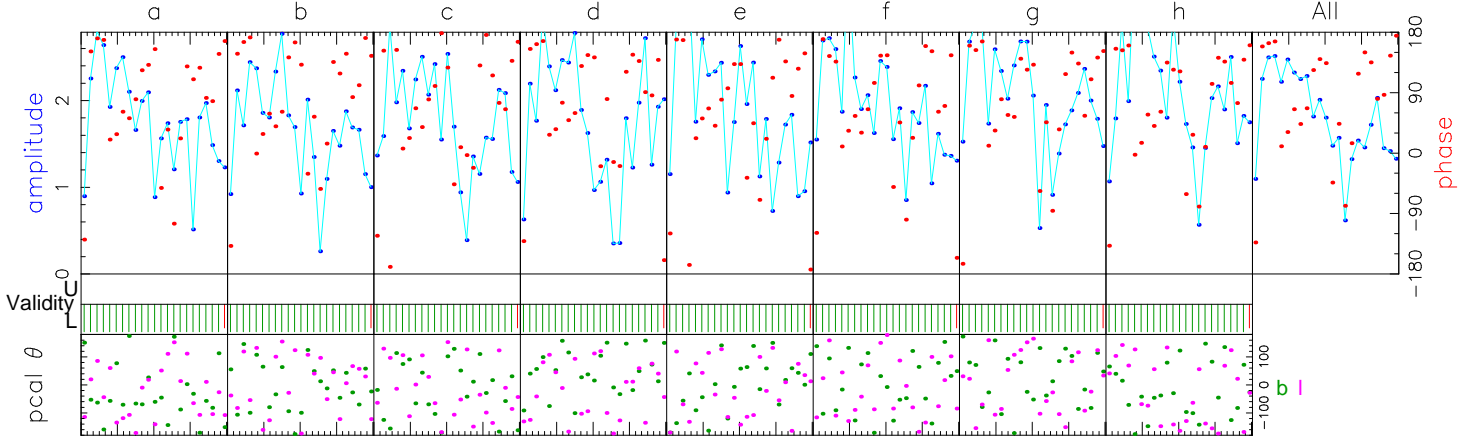
Fringe quality 7

SNR 27.8  
Int time 239.988  
Amp 0.930  
Phase 284.2  
PFD 0.0e+00  
Delays (us)  
SBD -0.012283  
MBD 0.004233  
Fringe rate (Hz)  
-0.012154  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500

Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024400  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"



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	104.2	104.2
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Ampl.	0.9
l	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	127.4
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
l	1000	1000	1000	1000	1000	1000	1000	1000	Manl PC	
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	PC amp	
l	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
									Chan ids	
									Tracks	

Group delay (usec)(sbd) -5.05928048420E+03 Apriori delay (usec) -5.05925346710E+03 Resid mbdelay (usec) 4.23290E-03 +/- 7.8E-05

Sband delay (usec) -5.05926575010E+03 Apriori clock (usec) -1.9132376E-01 Resid sbdelay (usec) -1.22830E-02 +/- 6.2E-04

Phase delay (usec) -5.05925346374E+03 Apriori clockrate (us/s) 1.1323990E-07 Resid phdelay (usec) 3.35952E-06 +/- 1.3E-07

Delay rate (us/s) 4.55836436502E-02 Apriori rate (us/s) 4.55837847504E-02 Resid rate (us/s) -1.41100E-07 +/- 9.6E-10

Total phase (deg) 47.9 Apriori accel (us/s/s) 2.50507436239E-05 Resid phase (deg) 284.2 +/- 4.1

RMS Theor. Amplitude 0.930 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 73.6 9.9 Search (1024X32) 0.885 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

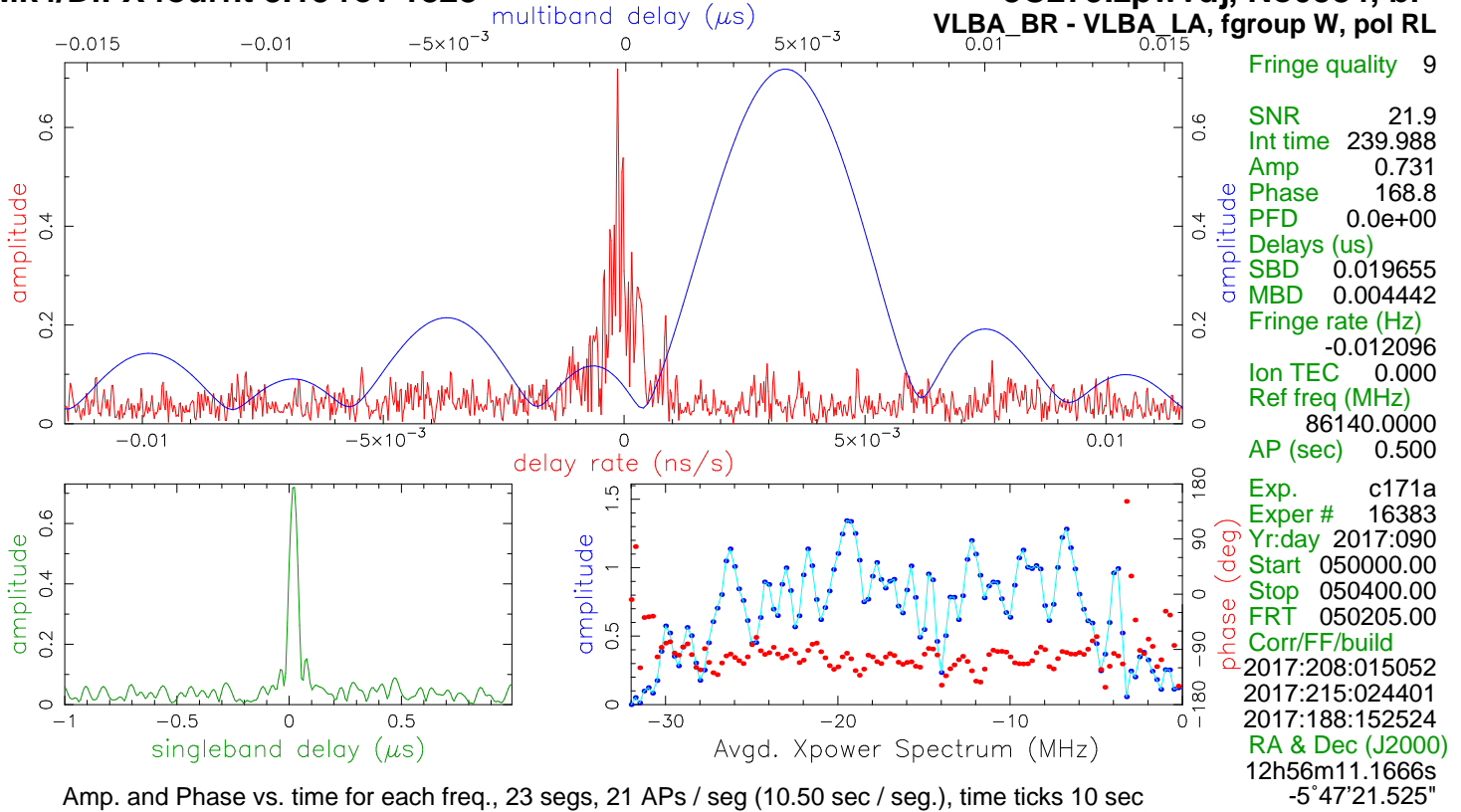
amp/seg (%) 108.2 17.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

ph/frq (deg) 5.8 5.8 Inc. seg. avg. 1.780 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012

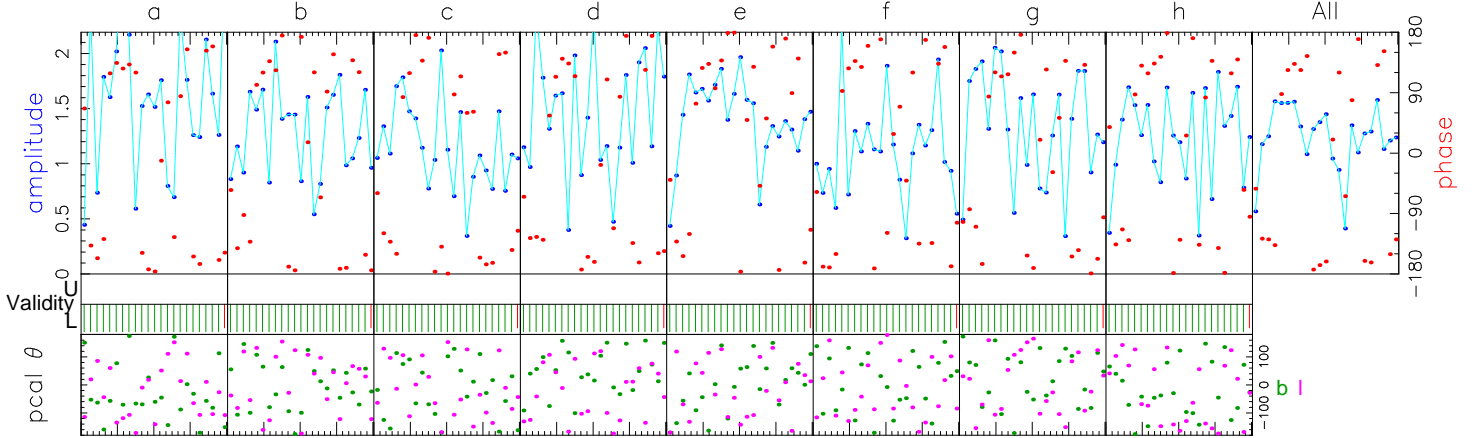
amp/frq (%) 16.5 10.2 Inc. frq. avg. 0.917 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

b: az 125.4 el 20.4 pa -33.2 l: az 132.7 el 35.9 pa -36.5 u,v (fr/asec) -243.941 1207.436 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bl..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bl.W.11.zpwvdj



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

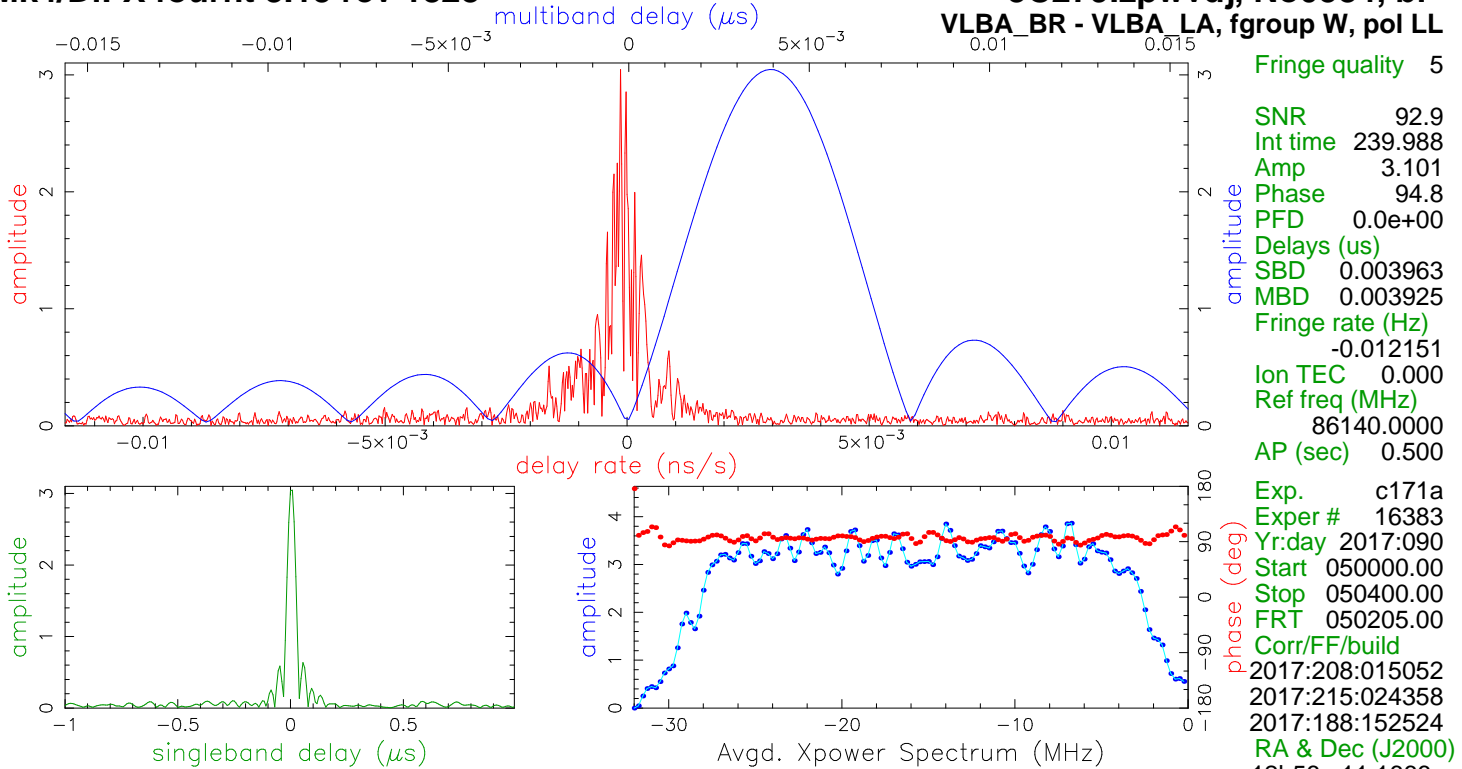


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
166.7	164.0	176.8	-177.7	154.4	165.1	174.6	167.8	Phase	168.8
1.0	0.7	0.7	0.8	0.8	0.6	0.6	0.6	Ampl.	0.7
131.5	131.4	131.2	131.5	131.2	131.5	131.6	132.1	Sbd box	131.5
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
l -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:l 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Man'l PC	
b 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l 1000	1000	1000	1000	1000	1000	1000	1000		
b W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
l W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-5.05924902495E+03		Apriori delay (usec)	-5.05925346710E+03		Resid mbdelay (usec)	4.44215E-03	+/-	9.9E-05
Sband delay (usec)	-5.05923381160E+03		Apriori clock (usec)	-1.9132376E-01		Resid sbdelay (usec)	1.96555E-02	+/-	7.9E-04
Phase delay (usec)	-5.05925346166E+03		Apriori clockrate (us/s)	1.1323990E-07		Resid phdelay (usec)	5.44361E-06	+/-	1.7E-07
Delay rate (us/s)	4.55836443322E-02		Apriori rate (us/s)	4.55837847504E-02		Resid rate (us/s)	-1.40418E-07	+/-	1.2E-09
Total phase (deg)		-67.5	Apriori accel (us/s/s)	2.50507436239E-05		Resid phase (deg)	168.8	+/-	5.2

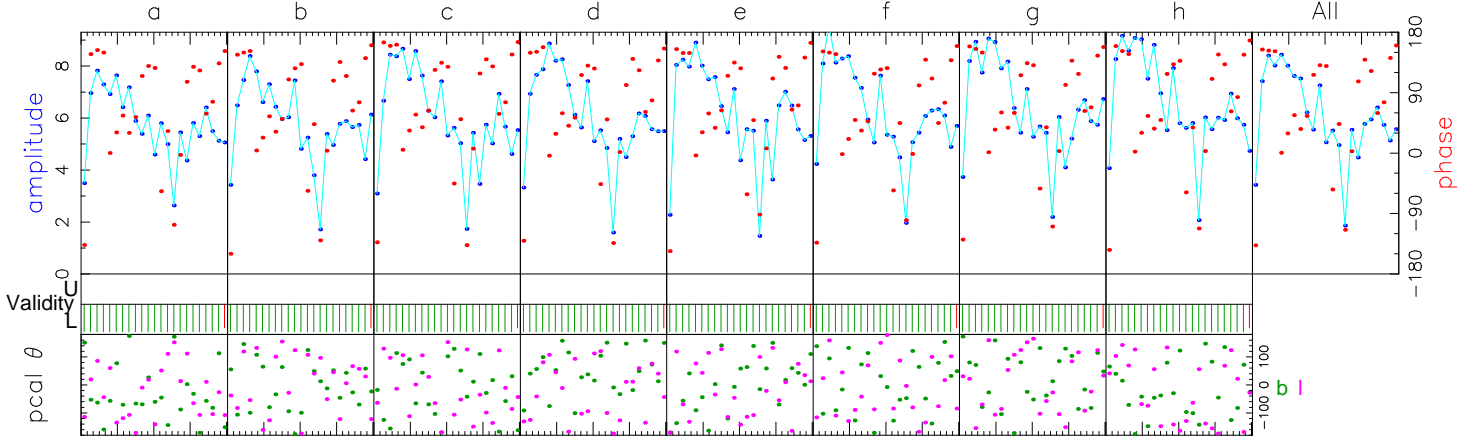
ph/seg (deg)	66.7	12.5	Amplitude	0.731 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	79.4	21.9	Search (1024X32)	0.695	Pcal rate: 0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.016	0.016
ph/frq (deg)	9.4	7.4	Inc. seg. avg.	1.205	Bits/sample: 2x2	SampCntNorm: enabled		dr window (ns/s)	-0.012	0.012
amp/frq (%)	17.1	12.9	Inc. frq. avg.	0.720	Sample rate(MSamp/s): 64			ion window (TEC)	0.00	0.00
					Data rate(Mb/s): 1024	nlags: 128	t_cohere infinite			

b: az 125.4 el 20.4 pa -33.2 l: az 132.7 el 35.9 pa -36.5 u,v (fr/asec) -243.941 1207.436 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bl..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/bl.W.12.zpwwdj

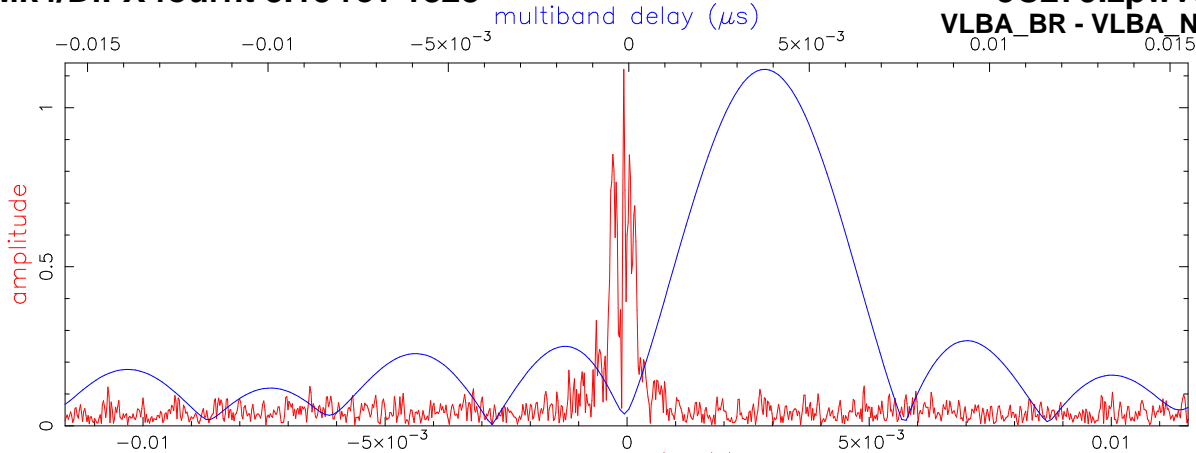


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

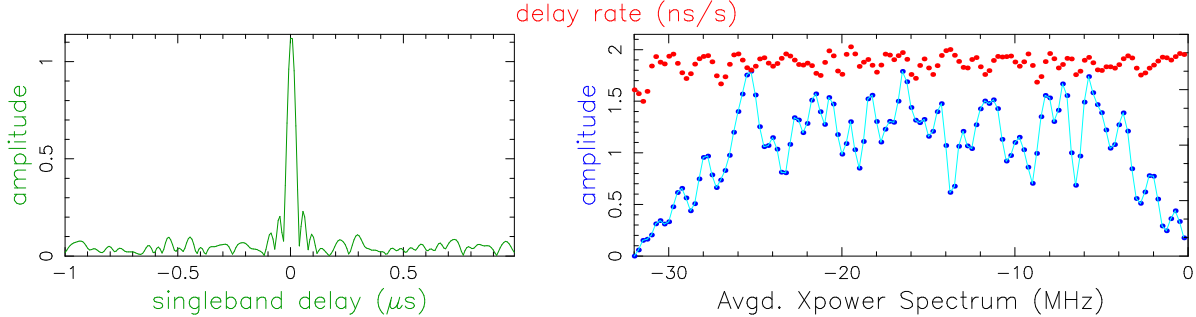


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
92.0	96.0	97.8	93.6	95.6	92.6	94.0	96.9	96.9	Phase	94.8
2.8	3.0	3.0	3.1	3.1	3.0	3.1	3.2	3.0	Ampl.	3.0
129.4	129.7	129.5	129.5	129.5	129.6	129.4	129.6	129.5	Sbd box	129.5
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
l	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Man'l PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
l	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.05924954176E+03		Apriori delay (usec)	-5.05925346710E+03		Resid mbdelay (usec)	3.92534E-03	+/-	2.3E-05	
Sband delay (usec)	-5.05924950410E+03		Apriori clock (usec)	-1.9132376E-01		Resid sbdelay (usec)	3.96300E-03	+/-	1.9E-04	
Phase delay (usec)	-5.05925346405E+03		Apriori clockrate (us/s)	1.1323990E-07		Resid phdelay (usec)	3.05817E-06	+/-	4.0E-08	
Delay rate (us/s)	4.55836436893E-02		Apriori rate (us/s)	4.55837847504E-02		Resid rate (us/s)	-1.41061E-07	+/-	2.9E-10	
Total phase (deg)		-141.5	Apriori accel (us/s/s)	2.50507436239E-05		Resid phase (deg)	94.8	+/-	1.2	

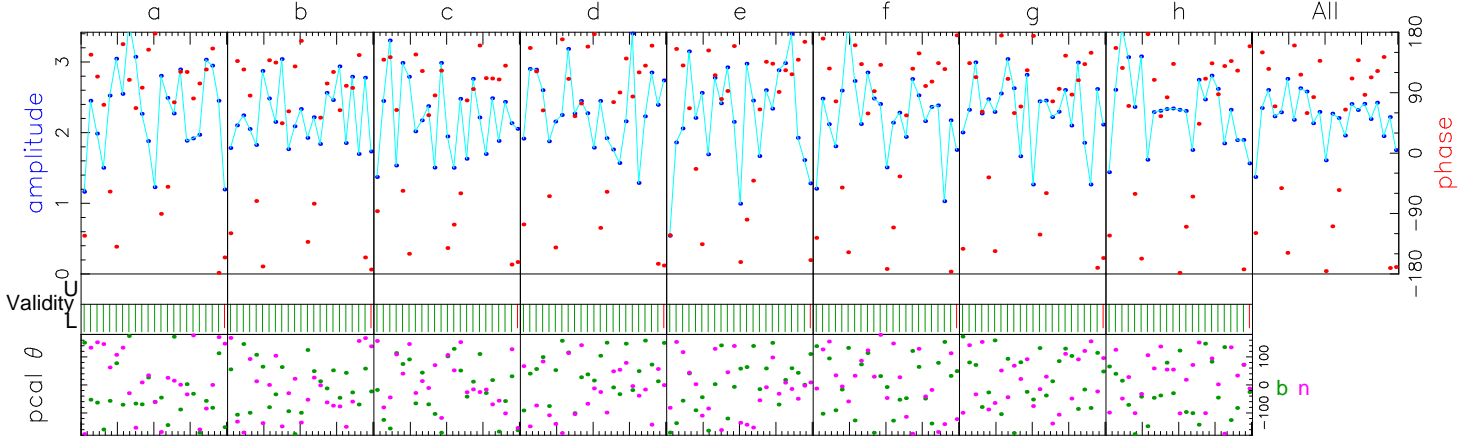
ph/seg (deg) 71.1 3.0 Theor. Amplitude 3.101 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 109.1 5.2 Search (1024X32) 2.986 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 2.3 1.7 Inc. seg. avg. 6.078 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 4.0 3.0 Inc. frq. avg. 3.046 Data rate (Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 b: az 125.4 el 20.4 pa -33.2 l: az 132.7 el 35.9 pa -36.5 u,v (fr/asec) -243.941 1207.436 Data rate (TEC) 0.00 0.00  
 simultaneous interpolator



Fringe quality 7  
SNR 34.2  
Int time 239.987  
Amp 1.141  
Phase 133.9  
PFD 0.0e+00  
Delays (us)  
SBD 0.003792  
MBD 0.003782  
Fringe rate (Hz)  
-0.004962  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024403  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"



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

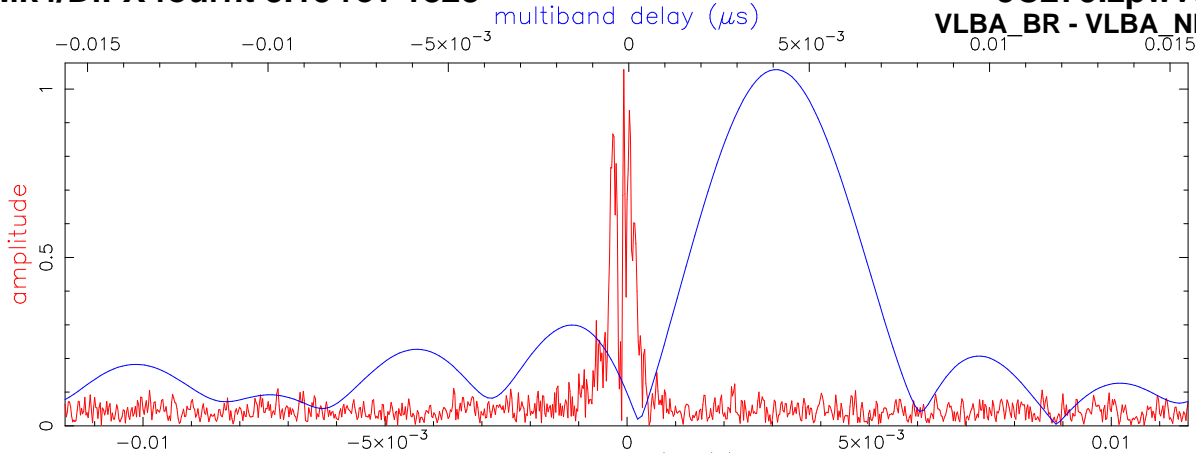


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
n	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		

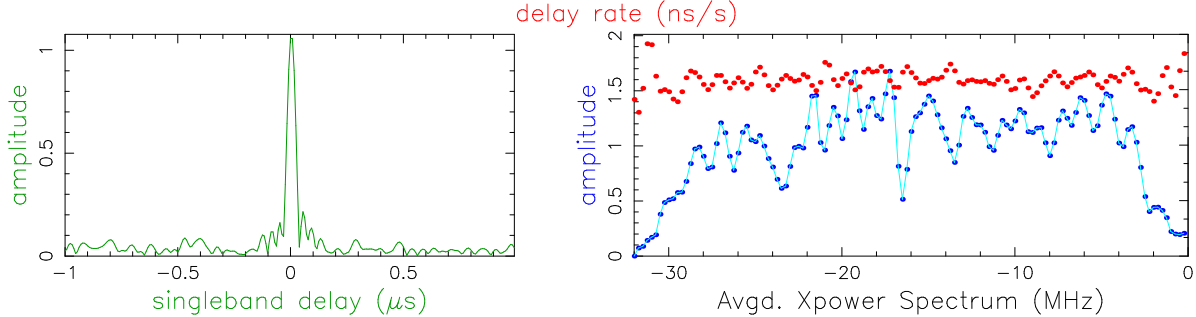
Group delay (usec)(sbd)	-5.72341741507E+03	Apriori delay (usec)	-5.72342119671E+03	Resid mbdelay (usec)	3.78164E-03	+/-	6.4E-05
Sband delay (usec)	-5.72341740521E+03	Apriori clock (usec)	-9.8375740E+00	Resid sbdelay (usec)	3.79150E-03	+/-	5.0E-04
Phase delay (usec)	-5.72342119239E+03	Apriori clockrate (us/s)	-2.8431971E-07	Resid phdelay (usec)	4.31809E-06	+/-	1.1E-07
Delay rate (us/s)	3.63092167406E-01	Apriori rate (us/s)	3.63092225007E-01	Resid rate (us/s)	-5.76010E-08	+/-	7.8E-10
Total phase (deg)	-184.5	Apriori accel (us/s/s)	2.94724395014E-05	Resid phase (deg)	133.9	+/-	3.4

ph/seg (deg)	72.7	Theor.	8.0	Amplitude	1.141 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	99.2		14.0	Search (1024X32)	1.028	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	5.6		4.7	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	4.2		8.3	Inc. seg. avg.	2.204	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
				Inc. frq. avg.	1.121	Data rate(Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00

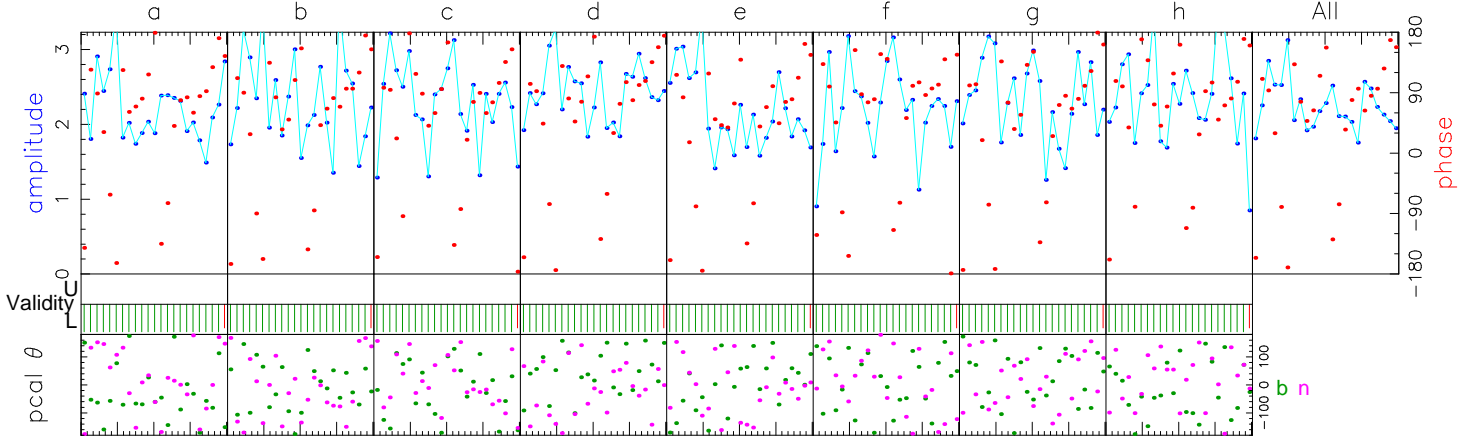
b: az 125.4 el 20.4 pa -33.2 n: az 151.6 el 38.3 pa -20.6 u,v (fr/asec) -2069.021 453.386 simultaneous interpolator  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bn.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bn.W.13.zpwvdj



Fringe quality 7  
 SNR 32.3  
 Int time 239.987  
 Amp 1.077  
 Phase 108.1  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.003865  
 MBD 0.004100  
 Fringe rate (Hz)  
 -0.005050  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024404  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

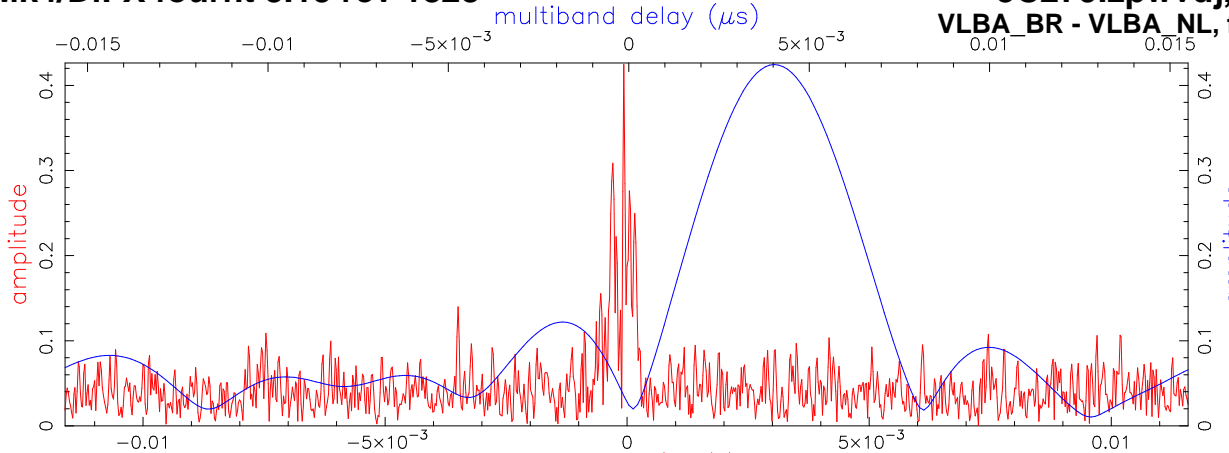


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

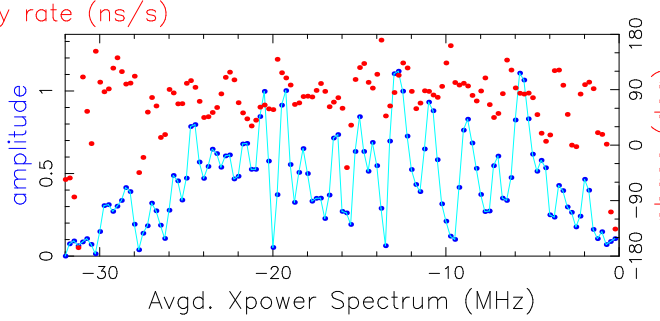
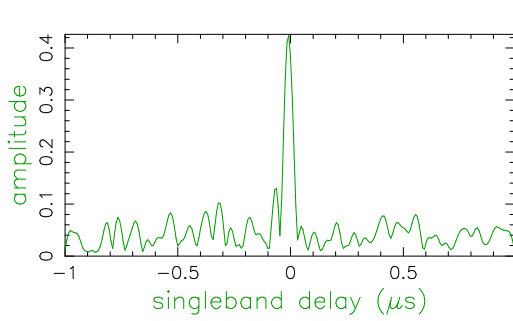


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	111.5	102.2	108.1	113.1	96.0	126.7	108.1	99.1	Phase	108.1
	0.9	1.1	1.1	1.2	0.9	1.1	1.1	1.2	Ampl.	1.1
	129.6	129.5	129.6	129.2	130.0	129.3	129.4	129.5	Sbd box	129.5
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	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)	-5.72341709626E+03		Apriori delay (usec)		-5.72342119671E+03		Resid mbdelay (usec)		4.10045E-03	+/- 6.7E-05
Sband delay (usec)	-5.72341733121E+03		Apriori clock (usec)		-9.8375740E+00		Resid sbdelay (usec)		3.86550E-03	+/- 5.3E-04
Phase delay (usec)	-5.72342119322E+03		Apriori clockrate (us/s)		-2.8431971E-07		Resid phdelay (usec)		3.48631E-06	+/- 1.1E-07
Delay rate (us/s)	3.63092166381E-01		Apriori rate (us/s)		3.63092225007E-01		Resid rate (us/s)		-5.86255E-08	+/- 8.3E-10
Total phase (deg)	-210.2		Apriori accel (us/s/s)		2.94724395014E-05		Resid phase (deg)		108.1	+/- 3.6

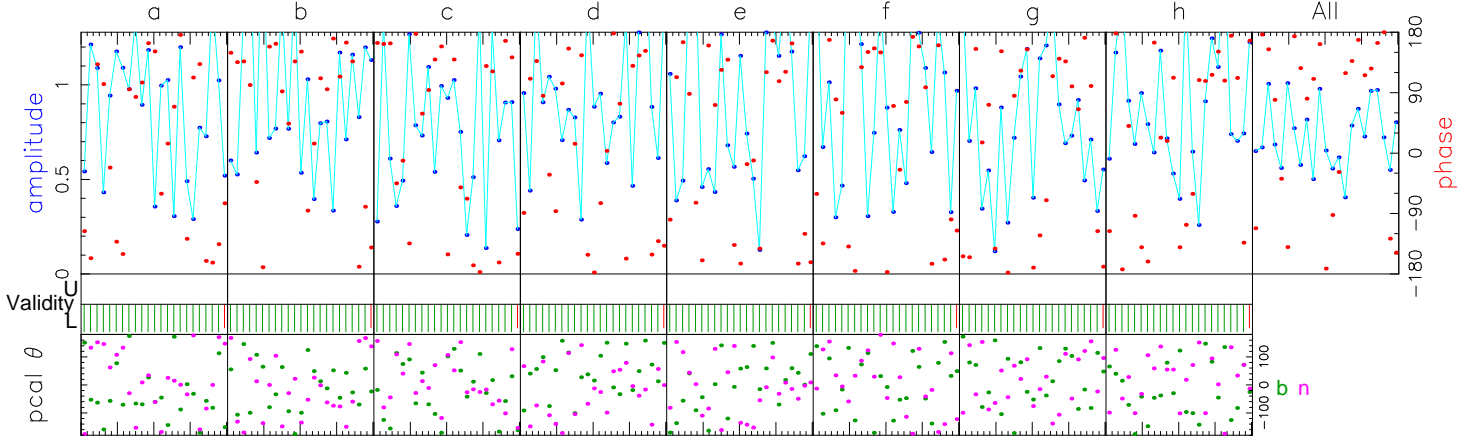
ph/seg (deg) 73.2 8.5 Search (1024X32) 0.983 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 113.1 14.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 10.4 5.0 Inc. seg. avg. 2.228 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 8.7 8.8 Inc. frq. avg. 1.067 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 b: az 125.4 el 20.4 pa -33.2 n: az 151.6 el 38.3 pa -20.6 u,v (fr/asec) -2069.021 453.386 ion window (TEC) 0.00 0.00  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bn.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bn.W.14.zpwvdj simultaneous interpolator



Fringe quality 9  
SNR 12.8  
Int time 239.987  
Amp 0.426  
Phase 163.8  
PFD 3.2e-29  
Delays (us)  
SBD -0.009871  
MBD 0.004011  
Fringe rate (Hz)  
-0.005320  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024405  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"



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

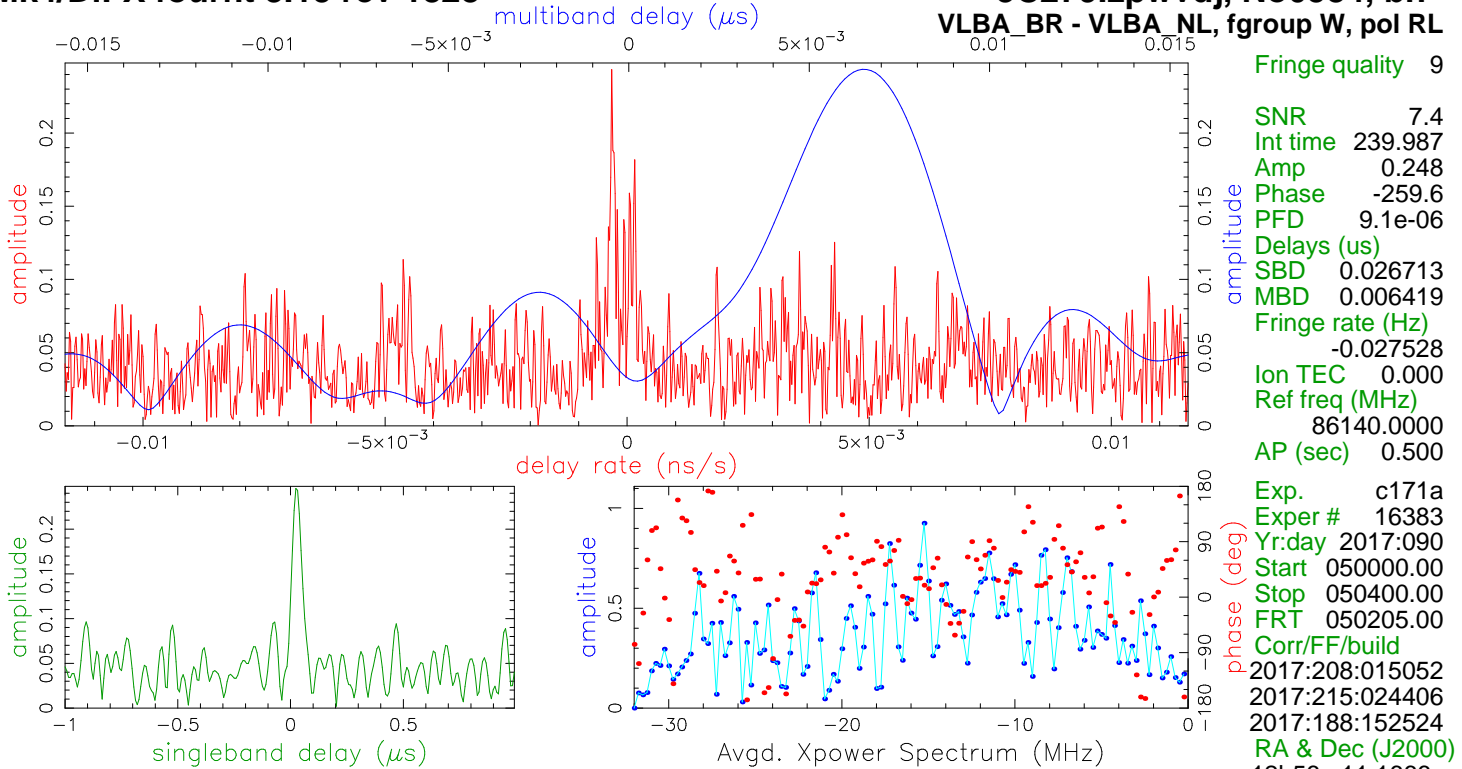


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	176.0	143.4	164.9	178.9	158.9	177.1	151.0	164.5	Phase	163.8
	0.3	0.5	0.5	0.4	0.4	0.5	0.4	0.4	Ampl.	0.4
	127.0	128.0	128.4	126.5	127.1	128.4	128.3	127.8	Sbd box	127.7
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
n	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	

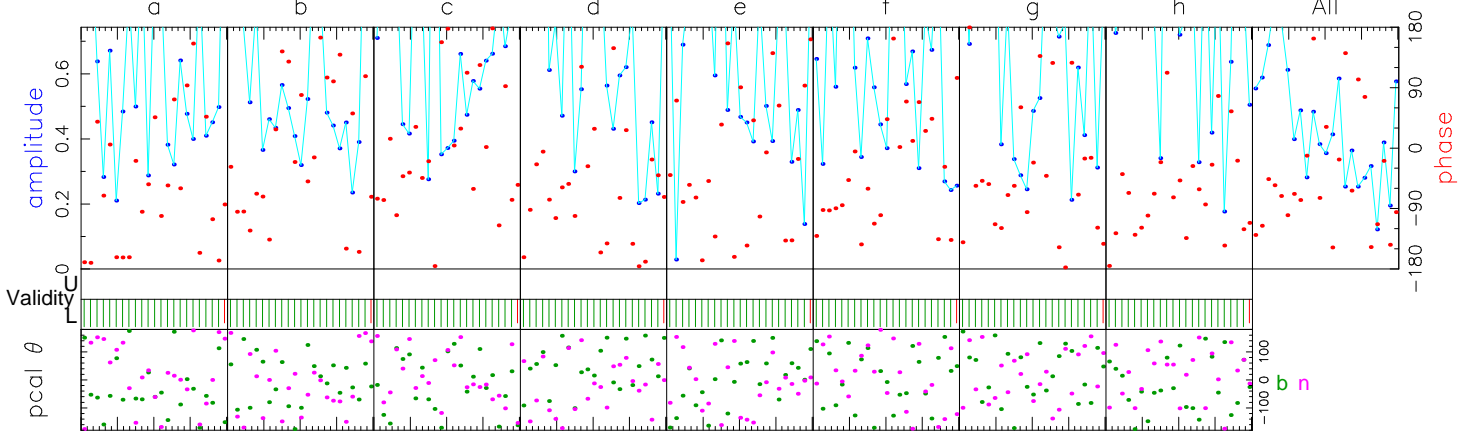
Group delay (usec)(sbd) -5.72341718532E+03 Apriori delay (usec) -5.72342119671E+03 Resid mbdelay (usec) 4.01139E-03 +/- 1.7E-04  
 Sband delay (usec) -5.72343106721E+03 Apriori clock (usec) -9.8375740E+00 Resid sbdelay (usec) -9.87050E-03 +/- 1.3E-03  
 Phase delay (usec) -5.72342119143E+03 Apriori clockrate (us/s) -2.8431971E-07 Resid phdelay (usec) 5.28145E-06 +/- 2.9E-07  
 Delay rate (us/s) 3.63092163245E-01 Apriori rate (us/s) 3.63092225007E-01 Resid rate (us/s) -6.17614E-08 +/- 2.1E-09  
 Total phase (deg) -154.6 Apriori accel (us/s/s) 2.94724395014E-05 Resid phase (deg) 163.8 +/- 9.0

RMS Theor. Amplitude 0.426 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 68.4 21.5 Search (1024X32) 0.410 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 82.3 37.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 13.9 12.7 Inc. seg. avg. 0.684 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 (%) 15.6 22.1 Inc. frq. avg. 0.424 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

b: az 125.4 el 20.4 pa -33.2 n: az 151.6 el 38.3 pa -20.6 u,v (fr/asec) -2069.021 453.386 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
-115.1	-97.6	-64.3	-62.4	-87.6	-60.5	-88.1	-83.9	Phase	-79.6
0.2	0.1	0.2	0.4	0.2	0.3	0.4	0.4	Ampl.	0.2
147.9	54.8	211.4	132.0	141.3	131.8	131.9	132.6	Sbd box	132.4
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	
n -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n 1000	1000	1000	1000	1000	1000	1000	1000		
b W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
								Tracks	
n W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
								Tracks	
Group delay (usec)(sbd)	-5.72338352756E+03		Apriori delay (usec)	-5.72342119671E+03		Resid mbdelay (usec)	6.41915E-03	+/-	2.9E-04
Sband delay (usec)	-5.72339448371E+03		Apriori clock (usec)	-9.8375740E+00		Resid sbdelay (usec)	2.67130E-02	+/-	2.3E-03
Phase delay (usec)	-5.72342119927E+03		Apriori clockrate (us/s)	-2.8431971E-07		Resid phdelay (usec)	-2.56566E-06	+/-	5.0E-07
Delay rate (us/s)	3.63091905430E-01		Apriori rate (us/s)	3.63092225007E-01		Resid rate (us/s)	-3.19577E-07	+/-	3.6E-09
Total phase (deg)		-217.9	Apriori accel (us/s/s)	2.94724395014E-05		Resid phase (deg)	-259.6	+/-	15.4

ph/seg (deg) 76.8    RMS    Theor.    Amplitude    0.248 +/- 0.033    Pcal mode: MANUAL, MANUAL    PC period (AP's) 5, 5

amp/seg (%) 107.2    64.6    Search (1024X32)    0.240    Pcal rate: 0.000E+00, 0.000E+00 (us/s)    sb window (us) -1.000 1.000

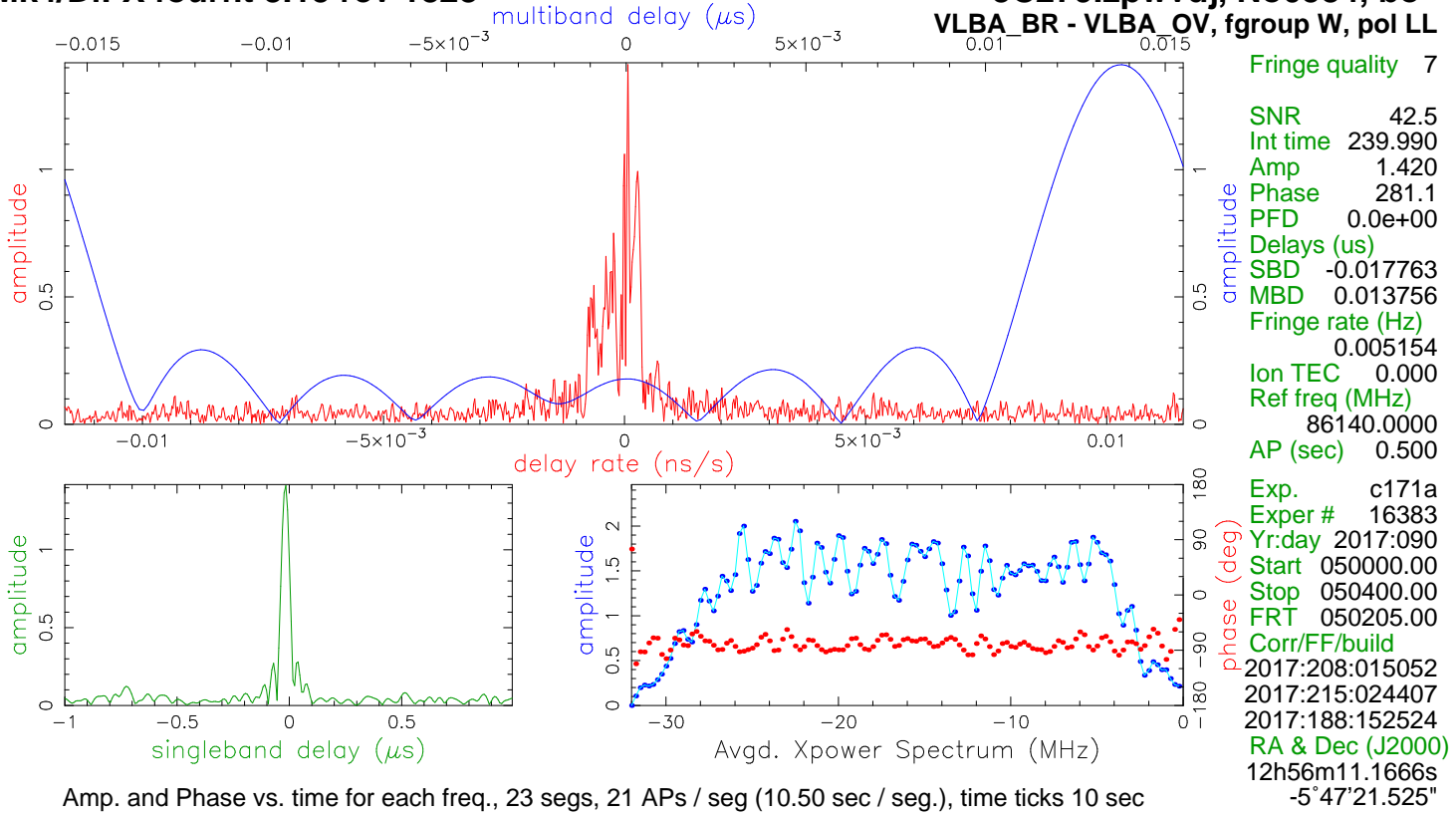
ph/frq (deg) 21.0    21.8    Interp.    0.000    Bits/sample: 2x2    SampCntNorm: enabled    mb window (us) -0.016 0.016

amp/frq (%) 42.4    38.1    Inc. seg. avg.    0.366    Sample rate(MSamp/s): 64    Data rate(Mb/s): 1024    nlags: 128    t\_cohere infinite    dr window (ns/s) -0.012 0.012

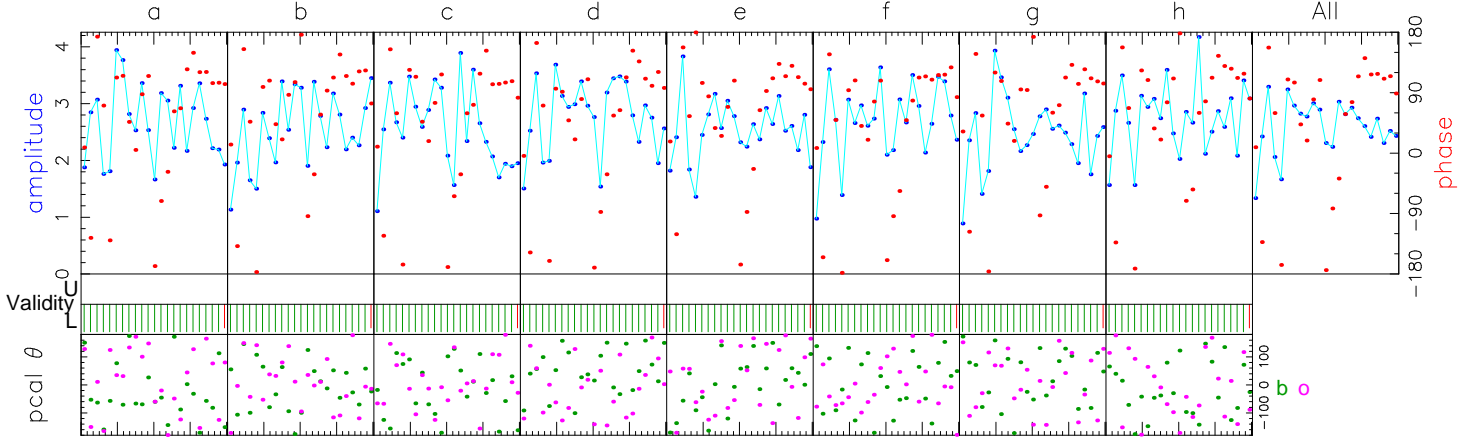
b: az 125.4 el 20.4 pa -33.2    n: az 151.6 el 38.3 pa -20.6    u,v (fr/asec) -2069.021 453.386    ion window (TEC) 0.00 0.00    simultaneous interpolator

Control file: ../cf\_1234    Input file: /Exps/c171a/gmva/1234/No0584/bn.zpwvdj    Output file: /Exps/c171a/gmva/1234/No0584/bn.W.16.zpwvdj





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

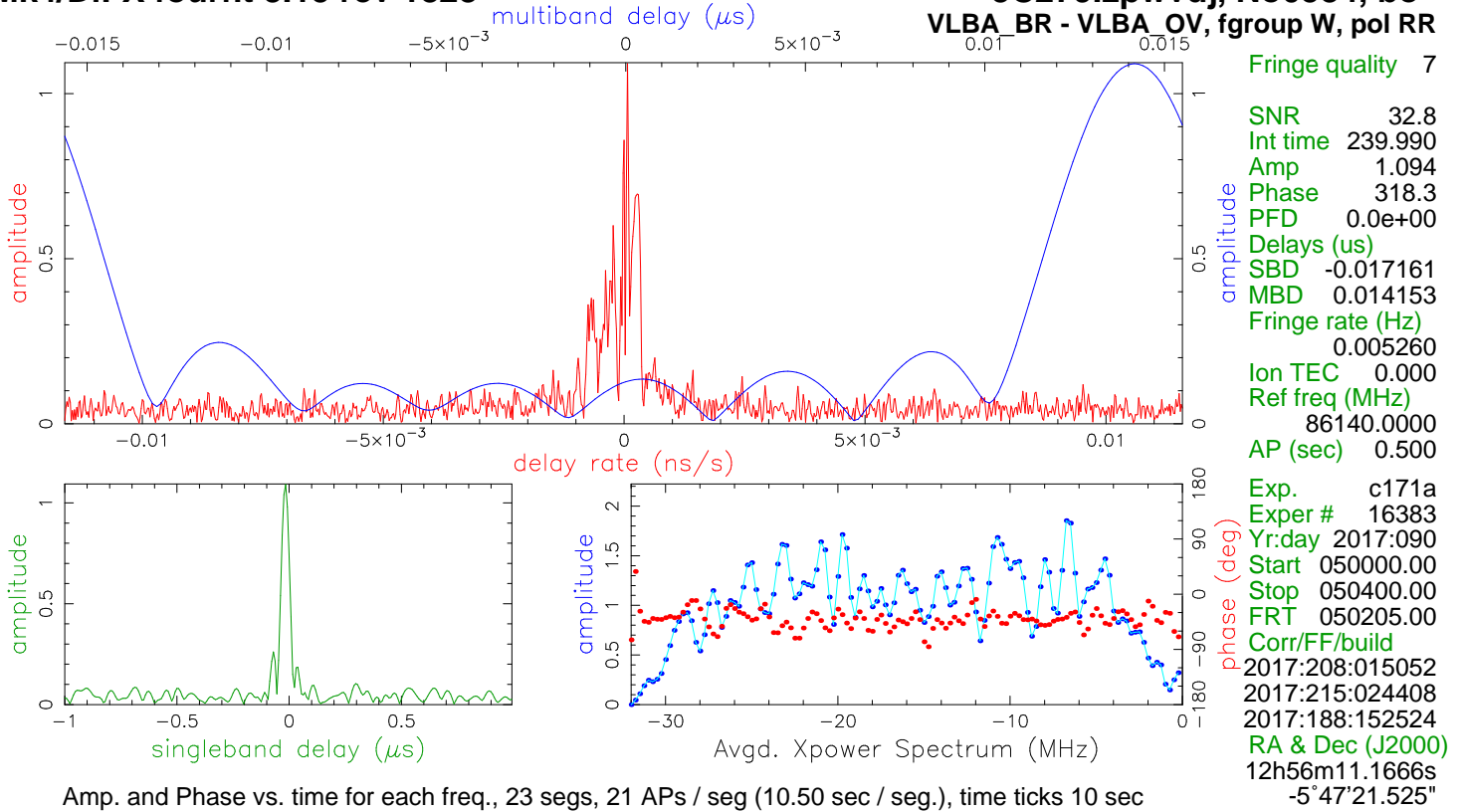


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
o	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
o	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Group delay (usec)(sbd)	-2.38452843403E+03		Apriori delay (usec)		-2.38451093970E+03		Resid mbdelay (usec)		1.37557E-02	+/- 5.1E-05
Sband delay (usec)	-2.38452870320E+03		Apriori clock (usec)		-6.6428852E+00		Resid sbdelay (usec)		-1.77635E-02	+/- 4.1E-04
Phase delay (usec)	-2.38451093644E+03		Apriori clockrate (us/s)		-2.4721710E-07		Resid phdelay (usec)		3.26043E-06	+/- 8.7E-08
Delay rate (us/s)	-1.31494374632E-01		Apriori rate (us/s)		-1.31494434466E-01		Resid rate (us/s)		5.98343E-08	+/- 6.3E-10
Total phase (deg)	156.5		Apriori accel (us/s/s)		1.10291634254E-05		Resid phase (deg)		281.1	+/- 2.7

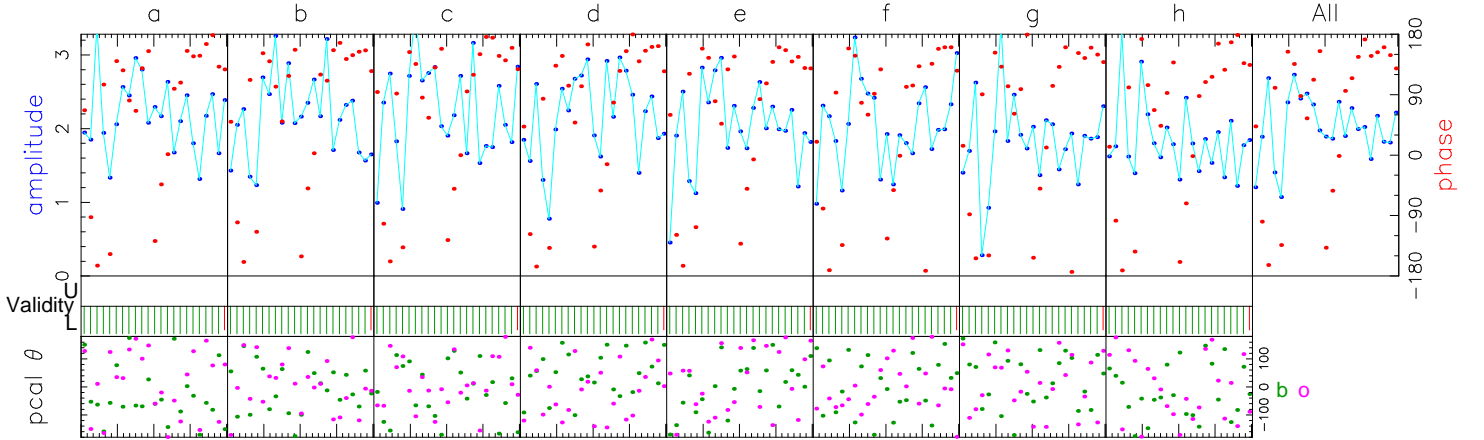
ph/seg (deg) 69.9 6.5 Theor. Amplitude 1.420 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 88.8 11.3 Search (1024X32) 1.349 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 2.6 3.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 6.8 6.7 Inc. seg. avg. 2.575 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. 1.410 ion window (TEC) 0.00 0.00

b: az 125.4 el 20.4 pa -33.2 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 765.430 1141.907 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bo.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bo.W.17.zpwvdj



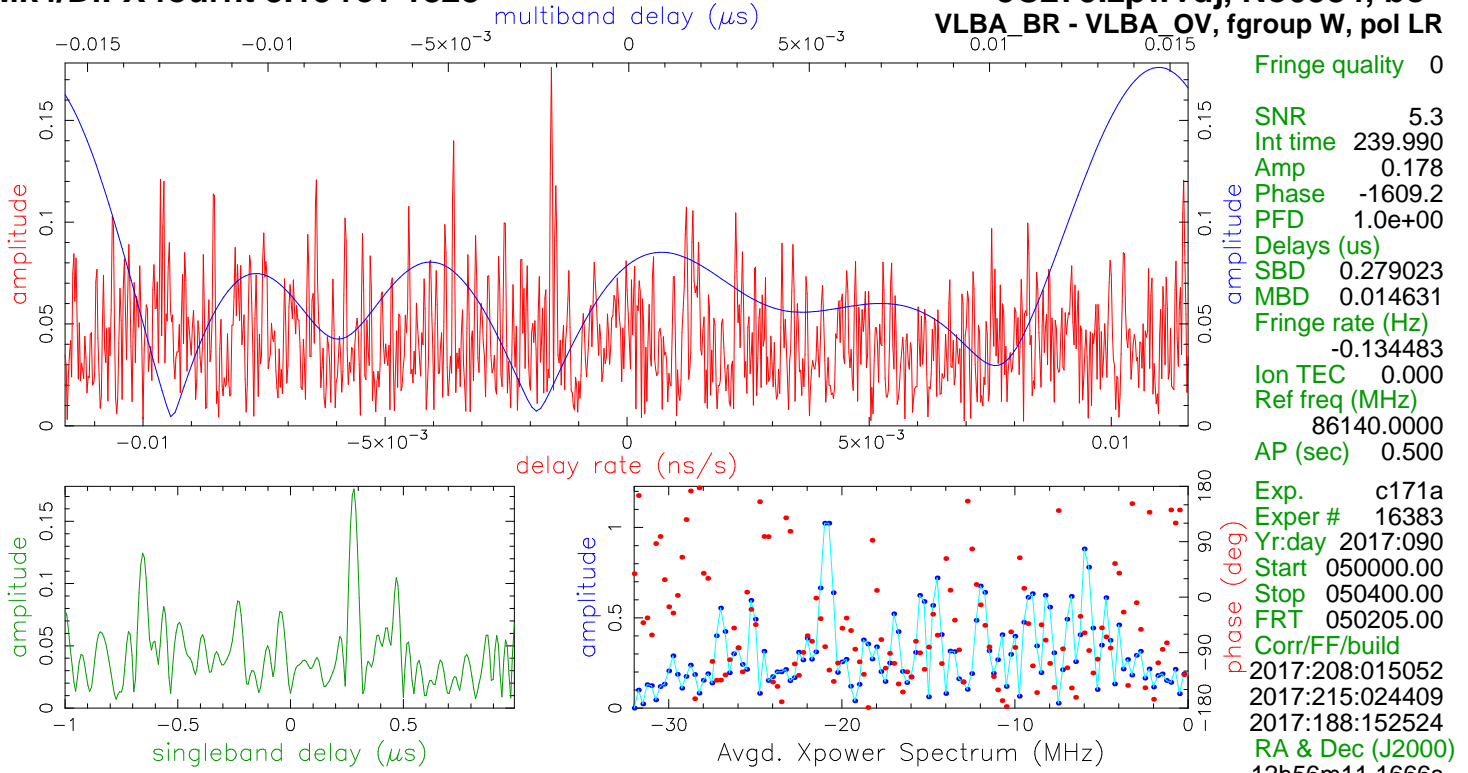
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	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		
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
o	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
o	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.38452803641E+03		Apriori delay (usec)	-2.38451093970E+03	Resid mbdelay (usec)	1.41533E-02	+/-	6.6E-05		
Sband delay (usec)	-2.38452810070E+03		Apriori clock (usec)	-6.6428852E+00	Resid sbdelay (usec)	-1.71610E-02	+/-	5.3E-04		
Phase delay (usec)	-2.38451093524E+03		Apriori clockrate (us/s)	-2.4721710E-07	Resid phdelay (usec)	4.46009E-06	+/-	1.1E-07		
Delay rate (us/s)	-1.31494373409E-01		Apriori rate (us/s)	-1.31494434466E-01	Resid rate (us/s)	6.10576E-08	+/-	8.1E-10		
Total phase (deg)		193.7	Apriori accel (us/s/s)	1.10291634254E-05	Resid phase (deg)	318.3	+/-	3.5		

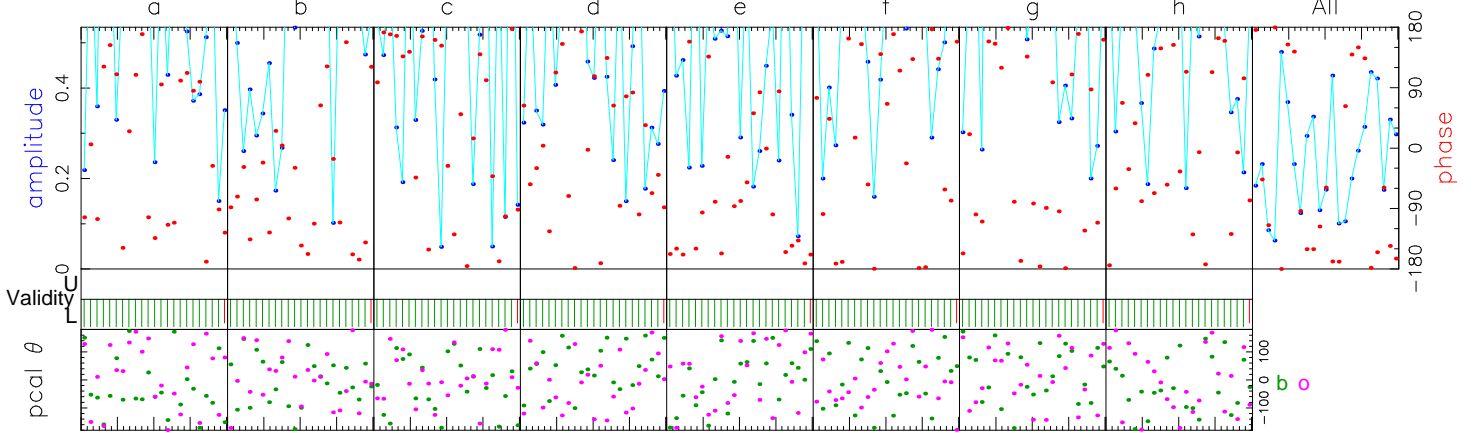
	RMS	Theor.	Amplitude	1.094 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	68.5	8.4	Search (1024X32)	1.033	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
amp/seg (%)	92.9	14.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
ph/frq (deg)	3.2	4.9	Inc. seg. avg.	1.997	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
amp/frq (%)	10.1	8.6	Inc. frq. avg.	1.088	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			

b: az 125.4 el 20.4 pa -33.2 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 765.430 1141.907 simultaneous interpolator  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bo.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bo.W.18.zpwvdj

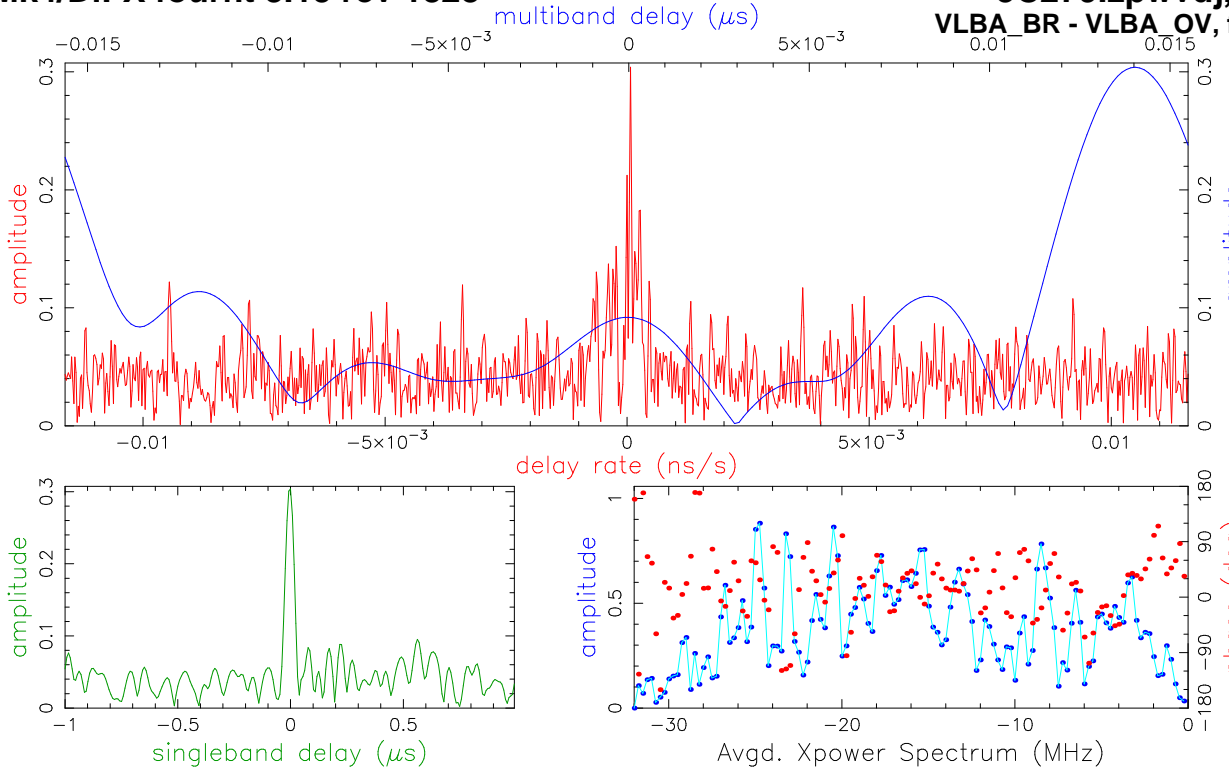


Fringe quality 0  
 SNR 5.3  
 Int time 239.990  
 Amp 0.178  
 Phase -1609.2  
 PFD 1.0e+00  
 Delays (us)  
 SBD 0.279023  
 MBD 0.014631  
 Fringe rate (Hz)  
 -0.134483  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024409  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

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

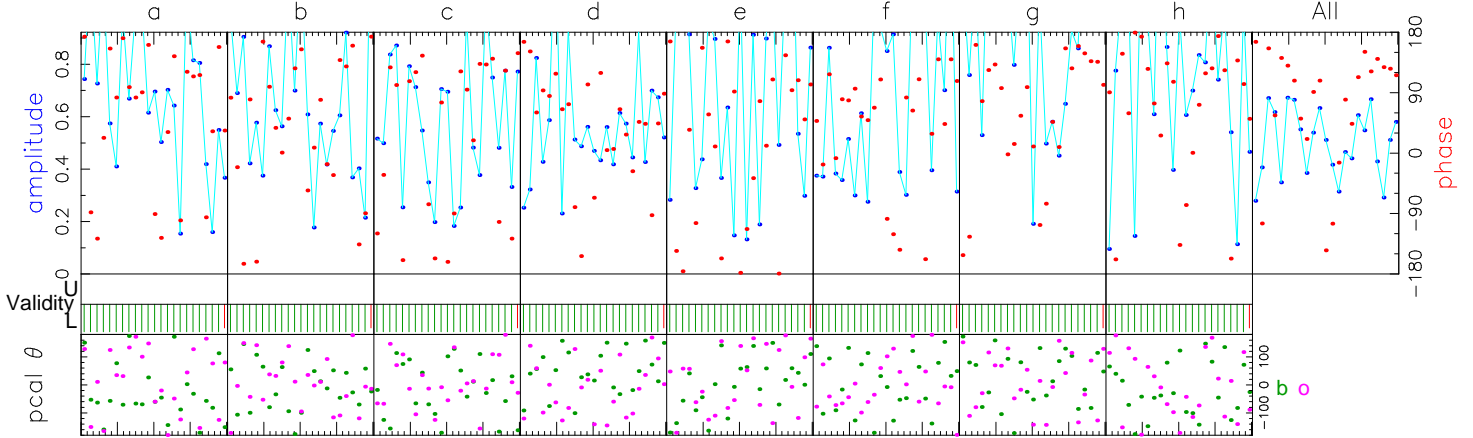


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
143.4	-134.7	164.9	-124.7	-135.3	149.3	-172.6	-123.0	Phase	-169.2
0.1	0.2	0.3	0.1	0.3	0.2	0.3	0.0	Ampl.	0.2
173.4	23.0	34.4	127.1	145.6	239.4	165.0	238.8	Sbd box	164.7
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
o -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC phase	
b:0 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b:0 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
b 1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
o 1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
b W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
o W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
Group delay (usec)(sbd)	-2.38424630919E+03	Apriori delay (usec)	-2.38451093970E+03	Resid mbdelay (usec)	1.46305E-02	+/-	4.1E-04		
Sband delay (usec)	-2.38423191720E+03	Apriori clock (usec)	-6.6428852E+00	Resid sbdelay (usec)	2.79023E-01	+/-	3.3E-03		
Phase delay (usec)	-2.38451094516E+03	Apriori clockrate (us/s)	-2.4721710E-07	Resid phdelay (usec)	-5.45748E-06	+/-	7.0E-07		
Delay rate (us/s)	-1.31495995678E-01	Apriori rate (us/s)	-1.31494434466E-01	Resid rate (us/s)	-1.56121E-06	+/-	5.0E-09		
Total phase (deg)	-1733.8	Apriori accel (us/s/s)	1.10291634254E-05	Resid phase (deg)	-1609.2	+/-	21.6		
RMS	Theor.	Amplitude	0.178 +/- 0.034	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
ph/seg (deg)	59.4	Search (1024X32)	0.171	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
amp/seg (%)	80.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.016 0.016	
ph/frq (deg)	43.0	Inc. seg. avg.	0.179	Sample rate(MSamp/s):	64	ion window (TEC)	0.00 0.00		
amp/frq (%)	55.8	Inc. frq. avg.	0.185	Data rate(Mb/s):	1024	nlags: 128 t_cohere infinite			



Fringe quality 9  
 SNR 9.2  
 Int time 239.990  
 Amp 0.307  
 Phase 295.2  
 PFD 3.2e-12  
 Delays (us)  
 SBD -0.003291  
 MBD 0.014052  
 Fringe rate (Hz) 0.004958  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024410  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

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

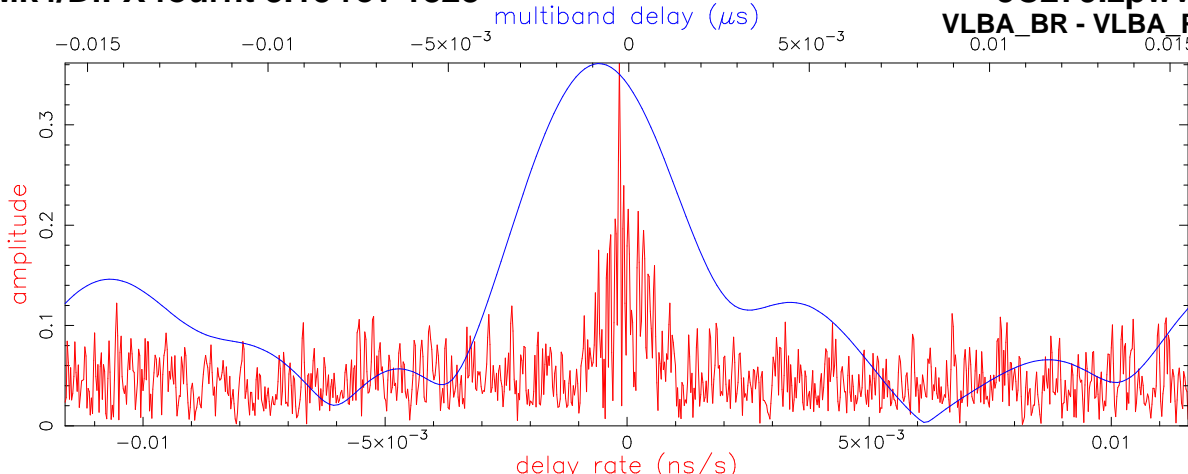


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	128.6	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	115.2	
o	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	0.3	
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	128.6	
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
o	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		

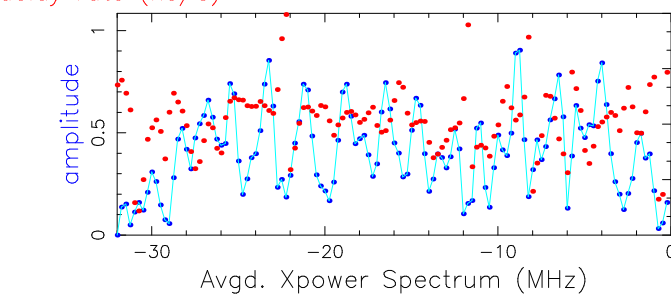
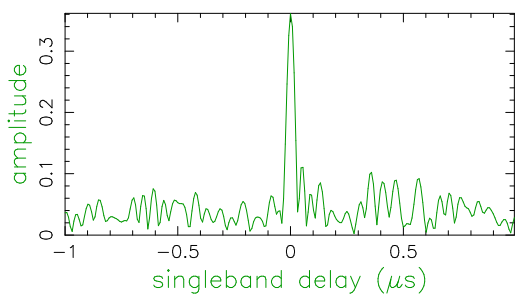
Group delay (usec)(sbd) -2.38452813772E+03 Apriori delay (usec) -2.38451093970E+03 Resid mbdelay (usec) 1.40520E-02 +/- 2.4E-04  
 Sband delay (usec) -2.38451423020E+03 Apriori clock (usec) -6.6428852E+00 Resid sbdelay (usec) -3.29050E-03 +/- 1.9E-03  
 Phase delay (usec) -2.38451093599E+03 Apriori clockrate (us/s) -2.4721710E-07 Resid phdelay (usec) 3.71448E-06 +/- 4.0E-07  
 Delay rate (us/s) -1.31494376910E-01 Apriori rate (us/s) -1.31494434466E-01 Resid rate (us/s) 5.75560E-08 +/- 2.9E-09  
 Total phase (deg) 170.6 Apriori accel (us/s/s) 1.10291634254E-05 Resid phase (deg) 295.2 +/- 12.4

RMS Theor. Amplitude 0.307 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 65.1 29.8 Search (1024X32) 0.276 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 75.1 52.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 23.6 17.6 Inc. seg. avg. 0.442 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 (%) 28.5 30.7 Inc. frq. avg. 0.307 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

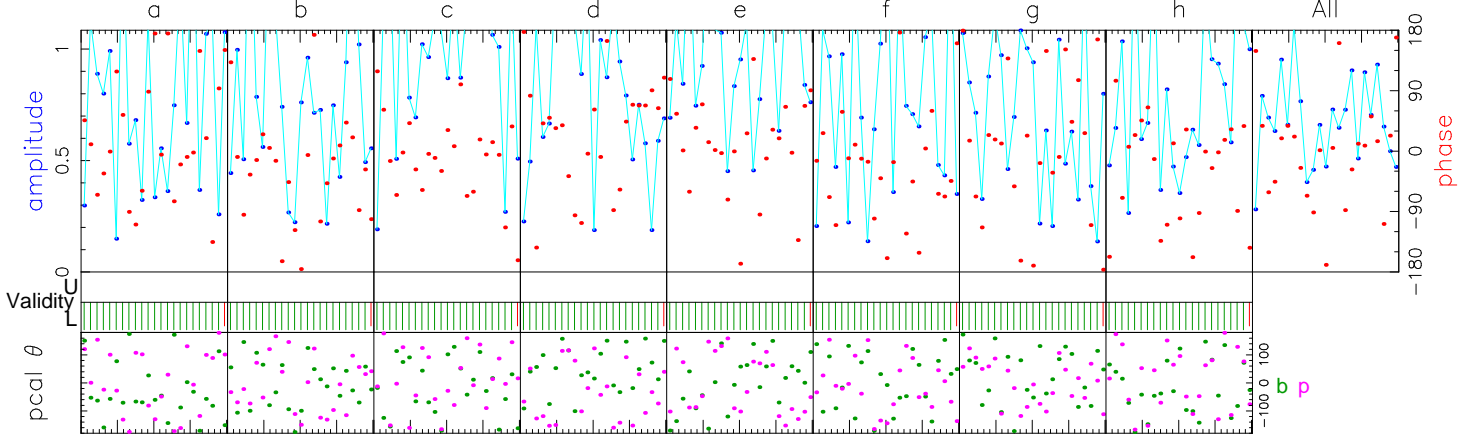
b: az 125.4 el 20.4 pa -33.2 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 765.430 1141.907 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bo.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/bo.W.20.zpvdj



Fringe quality 9  
 SNR 10.8  
 Int time 239.988  
 Amp 0.362  
 Phase -5.0  
 PFD 2.7e-19  
 Delays (us)  
 SBD 0.001090  
 MBD -0.000834  
 Fringe rate (Hz)  
 -0.013180  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024412  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

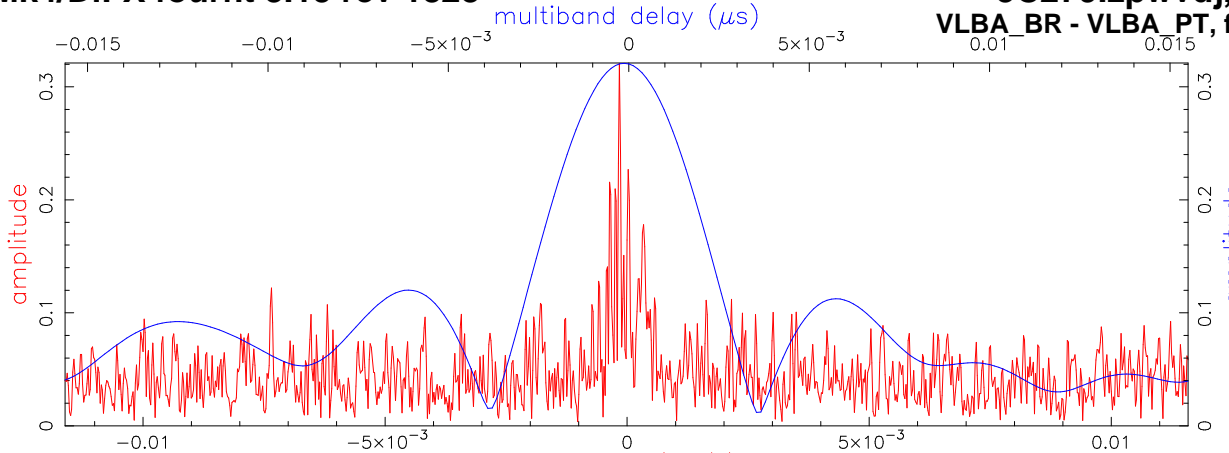


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

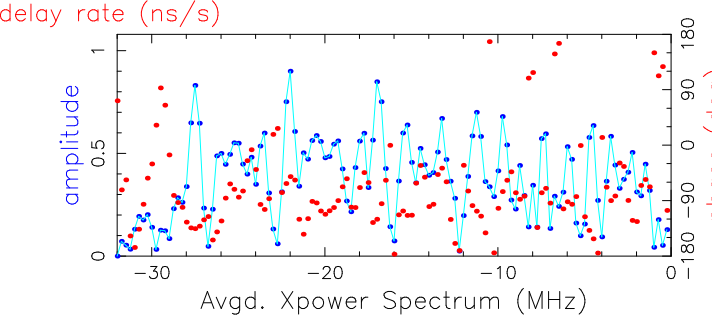
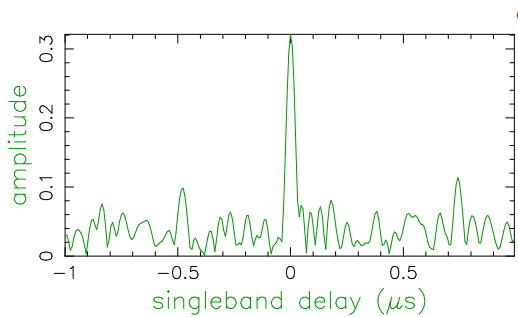


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480			
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used		
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC		
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
p	1000	1000	1000	1000	1000	1000	1000	1000			
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids		
p	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks		
Group delay (usec)(sbd)	-5.01801527465E+03	-5.01801335085E+03	-5.01801444101E+03	-5.01801444156E-03	-5.01801444085E+03	-6.8399935E+00	-2.5390790E-07	-1.62247E-07	Resid mbdelay (usec)	-8.33800E-04	+/- 2.0E-04
Sband delay (usec)	-5.01801335085E+03	-5.01801444101E+03	-5.01801444156E-03	-5.01801444085E+03	-6.8399935E+00	-2.5390790E-07	-1.62247E-07	-1.53001E-07	Resid sbdelay (usec)	1.09000E-03	+/- 1.6E-03
Phase delay (usec)	-5.01801444101E+03	-5.01801444156E-03	-5.01801444085E+03	-6.8399935E+00	-2.5390790E-07	-1.62247E-07	-1.53001E-07	-5.0	Resid phdelay (usec)	-1.62247E-07	+/- 3.4E-07
Delay rate (us/s)	-1.16133404249E-03	-1.16133404249E-03	-1.16133404249E-03	-1.16133404249E-03	-1.16133404249E-03	-1.16133404249E-03	-1.16133404249E-03	-1.16133404249E-03	Resid rate (us/s)	-1.53001E-07	+/- 2.5E-09
Total phase (deg)			-341.5						Resid phase (deg)	-5.0	+/- 10.6
	RMS	Theor.	Amplitude	0.362 +/- 0.033	Pcal mode: MANUAL, MANUAL			PC period (AP's) 5, 5			
ph/seg (deg)	80.6	25.4	Search (1024X32)	0.352	Pcal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us)	-1.000	1.000	
amp/seg (%)	102.8	44.3	Interp.	0.000	Bits/sample: 2x2			SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	22.4	15.0	Inc. seg. avg.	0.619	Sample rate(MSamp/s): 64			dr window (ns/s)	-0.012	0.012	
amp/frq (%)	48.1	26.1	Inc. frq. avg.	0.366	Data rate(Mb/s): 1024			ion window (TEC)	0.00	0.00	
nlags: 128 t_cohere infinite											

b: az 125.4 el 20.4 pa -33.2 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) 24.898 1396.873 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bp.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/bp.W.21.zpvdj

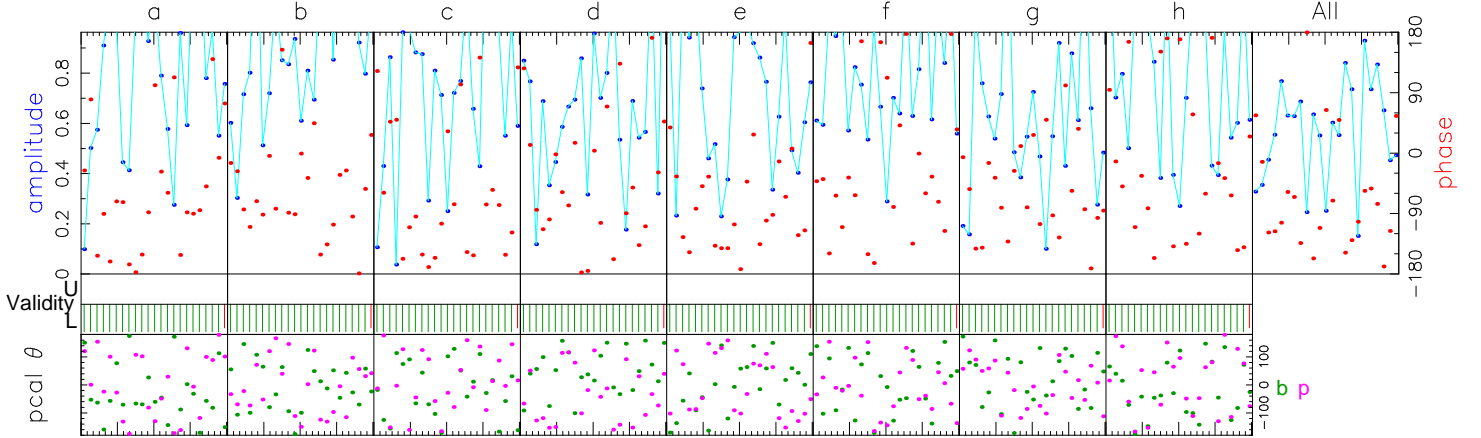


Fringe quality 9  
SNR 9.6  
Int time 239.988  
Amp 0.321  
Phase -97.9  
PFD 6.8e-14  
Delays (us)  
SBD 0.000812  
MBD -0.000136  
Fringe rate (Hz)  
-0.013308  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500



Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024413  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

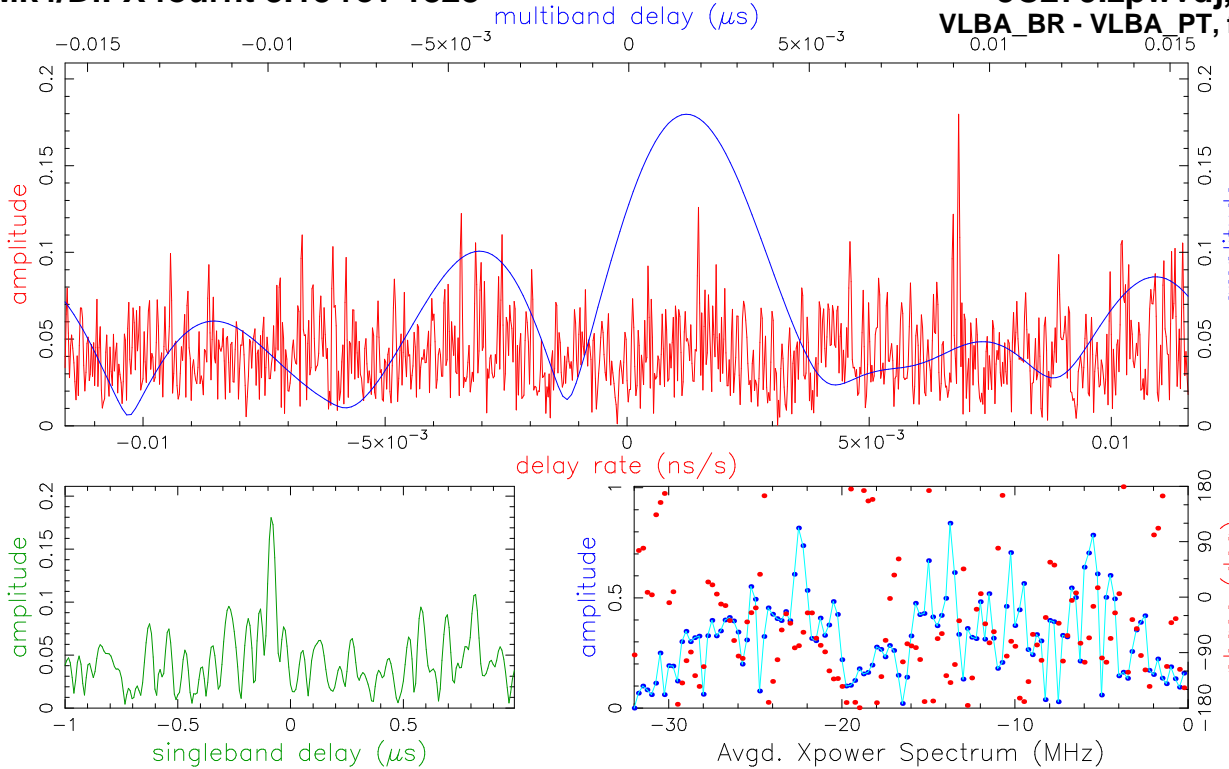
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-112.9	-76.9	-118.5	-99.3	-92.1	-103.6	-87.7	-105.4	Phase	-97.9
0.3	0.5	0.4	0.1	0.4	0.4	0.3	0.2	Ampl.	0.3
128.4	129.0	129.1	187.0	128.3	130.3	129.3	61.0	Sbd box	129.1
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	
p -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000		
b W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
p W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

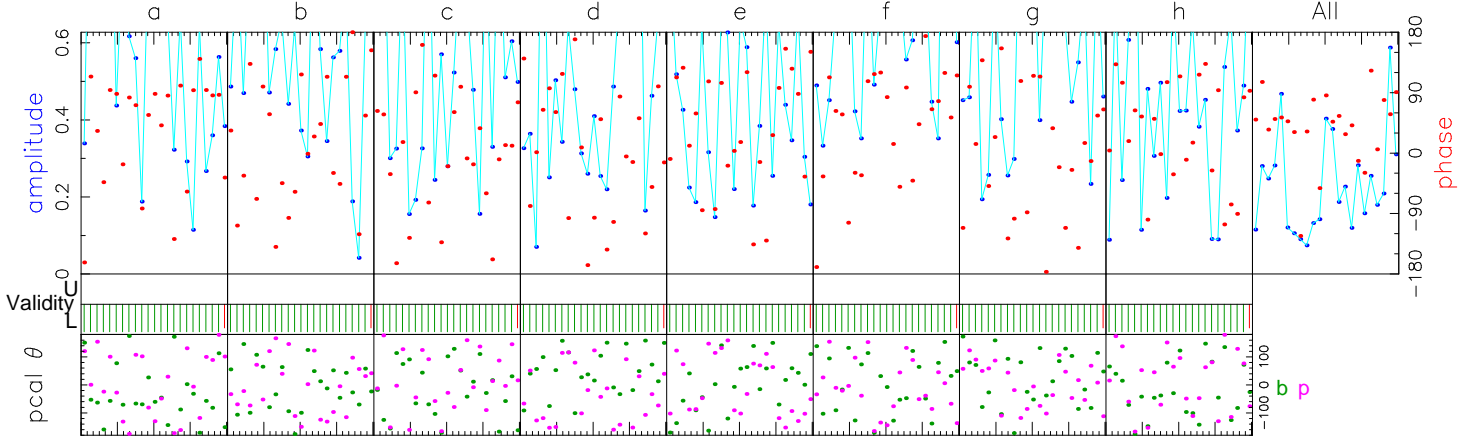
Group delay (usec)(sbd) -5.01801457646E+03 Apriori delay (usec) -5.01801444085E+03 Resid mbdelay (usec) -1.35612E-04 +/- 2.3E-04  
 Sband delay (usec) -5.01801362935E+03 Apriori clock (usec) -6.8399935E+00 Resid sbdelay (usec) 8.11500E-04 +/- 1.8E-03  
 Phase delay (usec) -5.01801444400E+03 Apriori clockrate (us/s) -2.5390790E-07 Resid phdelay (usec) -3.15586E-06 +/- 3.8E-07  
 Delay rate (us/s) -1.16133553715E-03 Apriori rate (us/s) -1.16118104156E-03 Resid rate (us/s) -1.54496E-07 +/- 2.8E-09  
 Total phase (deg) -74.3 Apriori accel (us/s/s) 2.45529987339E-05 Resid phase (deg) -97.9 +/- 11.9

ph/seg (deg) 74.9 Theor. 28.6 Amplitude 0.321 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 99.2 49.9 Search (1024X32) 0.316 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 14.8 16.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 37.7 29.4 Inc. seg. avg. 0.505 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 b: az 125.4 el 20.4 pa -33.2 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) 24.898 1396.873 ion window (TEC) 0.00 0.00  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bp.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bp.W.22.zpwvdj simultaneous interpolator

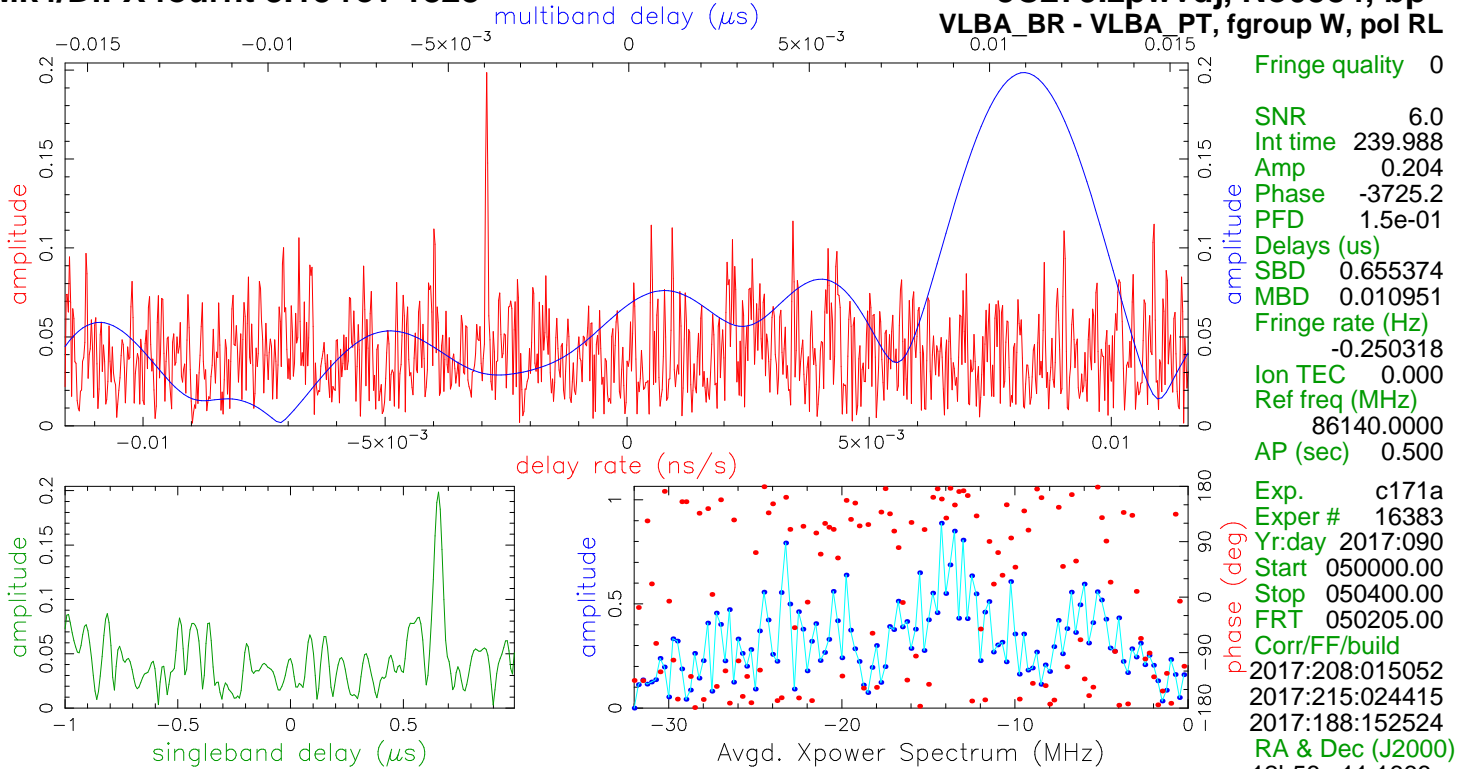


Fringe quality 0  
 SNR 5.4  
 Int time 239.988  
 Amp 0.209  
 Phase 593.4  
 PFD 9.8e-01  
 Delays (us)  
 SBD -0.083975  
 MBD 0.001592  
 Fringe rate (Hz) 0.589846  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024414  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

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
	72.7	32.6	15.1	34.8	66.7	76.4	43.0	47.4	Phase	53.4
	0.4	0.1	0.3	0.2	0.1	0.4	0.1	0.2	Ampl.	0.2
	44.7	1.5	71.3	69.3	60.0	117.4	104.1	43.5	Sbd box	118.3
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	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
p	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.01810659931E+03		Apriori delay (usec)		-5.01801444085E+03		Resid mbdelay (usec)		1.59154E-03	+/- 4.0E-04
Sband delay (usec)	-5.01809841585E+03		Apriori clock (usec)		-6.8399935E+00		Resid sbdelay (usec)		-8.39750E-02	+/- 3.2E-03
Phase delay (usec)	-5.01801443912E+03		Apriori clockrate (us/s)		-2.5390790E-07		Resid phdelay (usec)		1.72321E-06	+/- 6.8E-07
Delay rate (us/s)	-1.15433351718E-03		Apriori rate (us/s)		-1.16118104156E-03		Resid rate (us/s)		6.84752E-06	+/- 4.9E-09
Total phase (deg)	257.0		Apriori accel (us/s/s)		2.45529987339E-05		Resid phase (deg)		593.4	+/- 21.2
	RMS	Theor.	Amplitude	0.209 +/- 0.039	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	54.9	50.8	Search (1024X32)	0.175	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000
amp/seg (%)	76.4	88.7	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		-0.016	0.016
ph/frq (deg)	24.1	30.0	Inc. seg. avg.	0.193	Sample rate(MSamp/s): 64		dr window (ns/s)		-0.012	0.012
amp/frq (%)	50.6	52.3	Inc. frq. avg.	0.198	Data rate(Mb/s): 1024		ion window (TEC)		0.00	0.00
					nlags: 128 t_cohere infinite					



Fringe quality 0

SNR 6.0

Int time 239.988

Amp 0.204

Phase -3725.2

PFD 1.5e-01

Delays (us)

SBD 0.655374

MBD 0.010951

Fringe rate (Hz)

-0.250318

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:090

Start 050000.00

Stop 050400.00

FRT 050205.00

Corr/FF/build

2017:208:015052

2017:215:024415

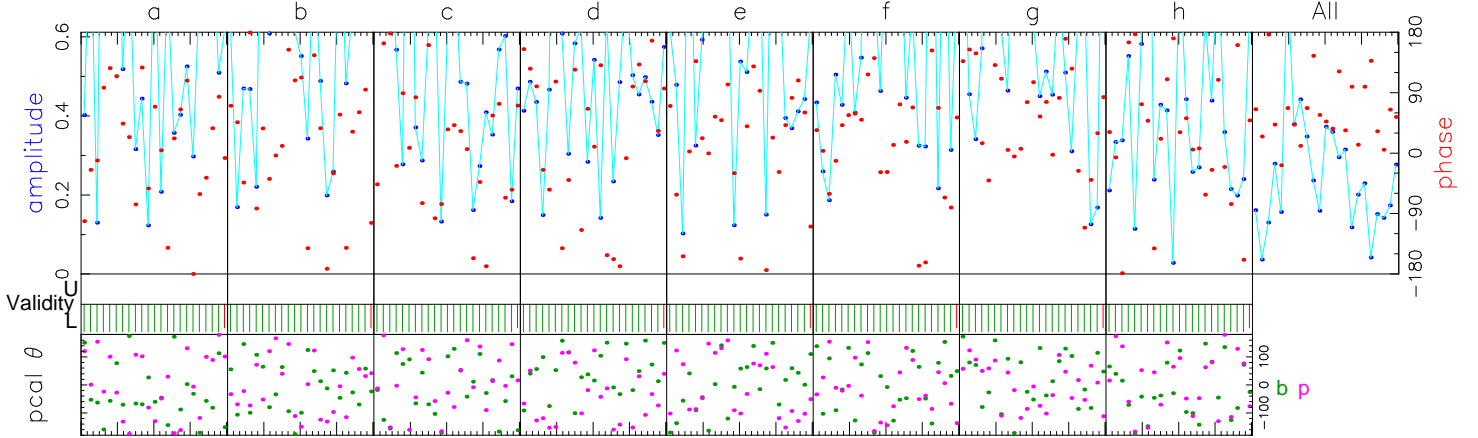
2017:188:152524

RA & Dec (J2000)

12h56m11.1666s

-5°47'21.525"

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

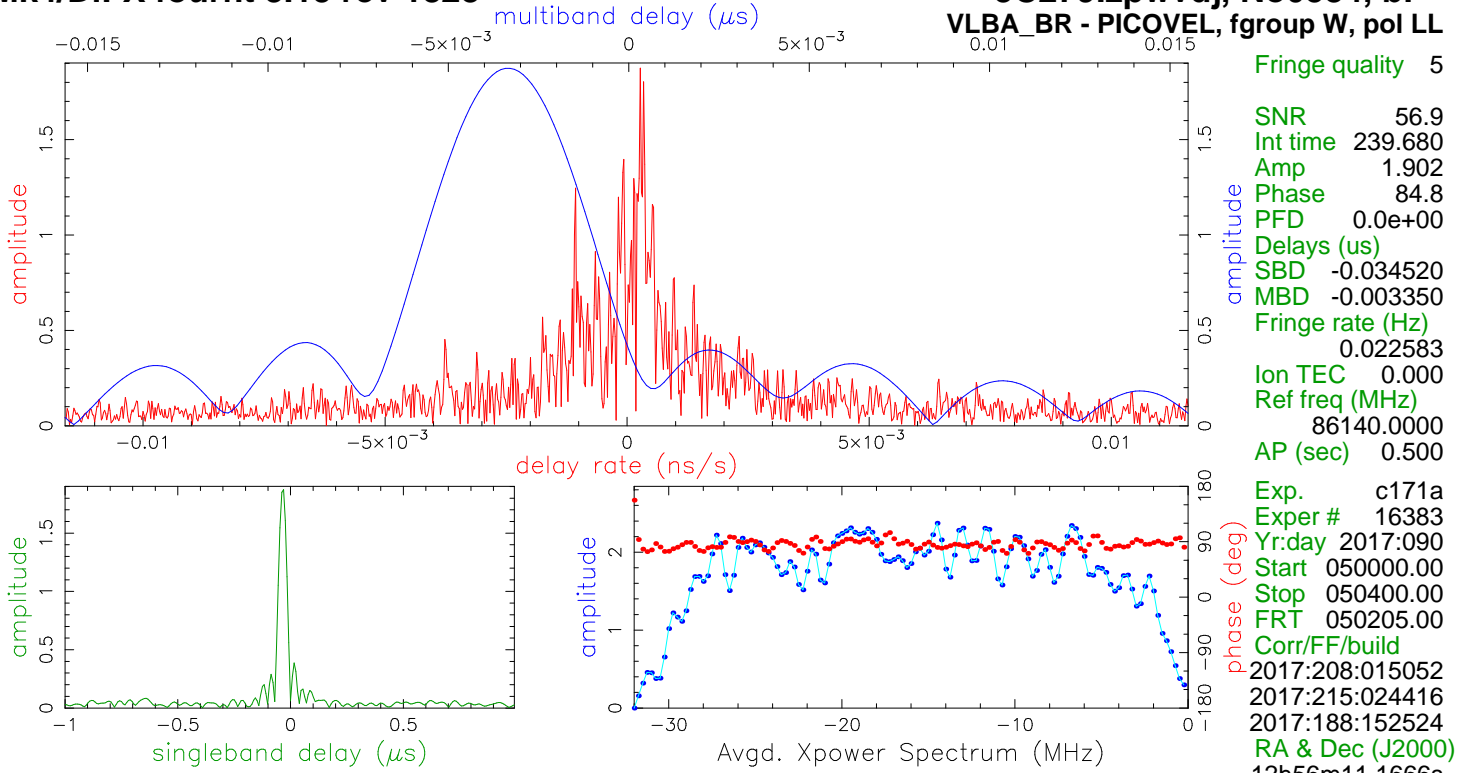


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
56.7	51.4	8.5	124.4	47.7	54.2	58.7	46.5	Phase	54.8	
0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	Ampl.	0.2	
61.0	123.1	67.3	202.5	212.1	253.9	201.3	1.6	Sbd box	212.9	
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used		
b -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
p -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
b:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
b:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC		
b 1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
p 1000	1000	1000	1000	1000	1000	1000	1000			
b 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)	-5.01734723959E+03		Apriori delay (usec)	-5.01801444085E+03		Resid mbdelay (usec)	1.09513E-02	+/-	3.6E-04	
Sband delay (usec)	-5.01735906735E+03		Apriori clock (usec)	-6.8399935E+00		Resid sbdelay (usec)	6.55374E-01	+/-	2.9E-03	
Phase delay (usec)	-5.01801443908E+03		Apriori clockrate (us/s)	-2.5390790E-07		Resid phdelay (usec)	1.76811E-06	+/-	6.2E-07	
Delay rate (us/s)	-1.16408698827E-03		Apriori rate (us/s)	-1.16118104156E-03		Resid rate (us/s)	-2.90595E-06	+/-	4.5E-09	
Total phase (deg)	-4061.6		Apriori accel (us/s/s)	2.45529987339E-05		Resid phase (deg)	-3725.2	+/-	19.2	
RMS	Theor.	Amplitude	0.204 +/- 0.034		Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
ph/seg (deg)	47.9	46.1	Search (1024X32)	0.192	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
amp/seg (%)	81.3	80.5	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	34.5	27.2	Inc. seg. avg.	0.194	Sample rate(MSamp/s):	64		dr window (ns/s)	-0.012	0.012
amp/frq (%)	24.2	47.5	Inc. frq. avg.	0.202	Data rate(Mb/s):	1024	nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00

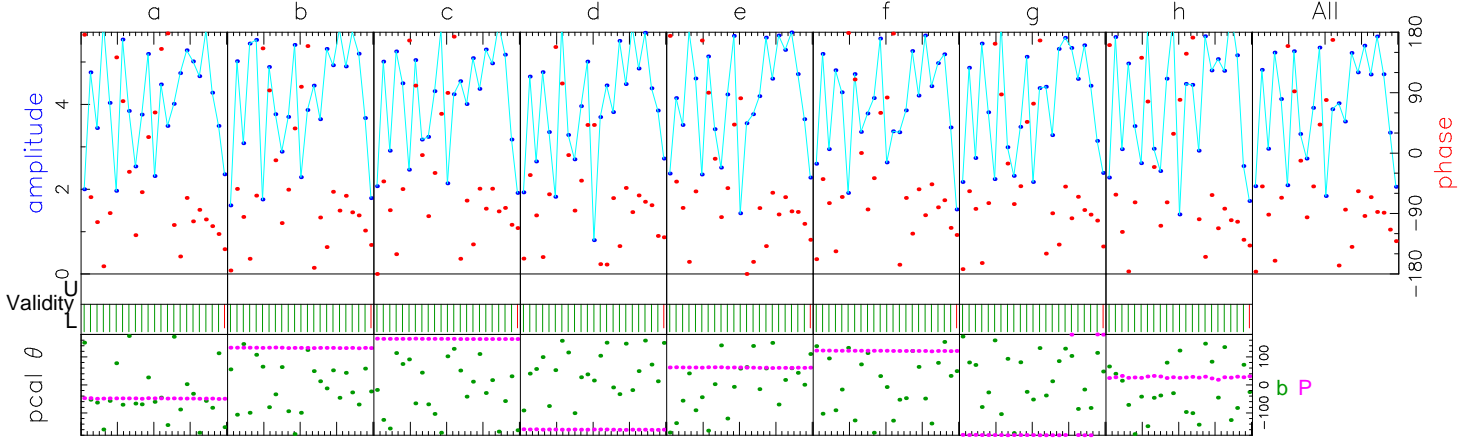
b: az 125.4 el 20.4 pa -33.2 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) 24.898 1396.873 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bp.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bp.W.24.zpwvdj



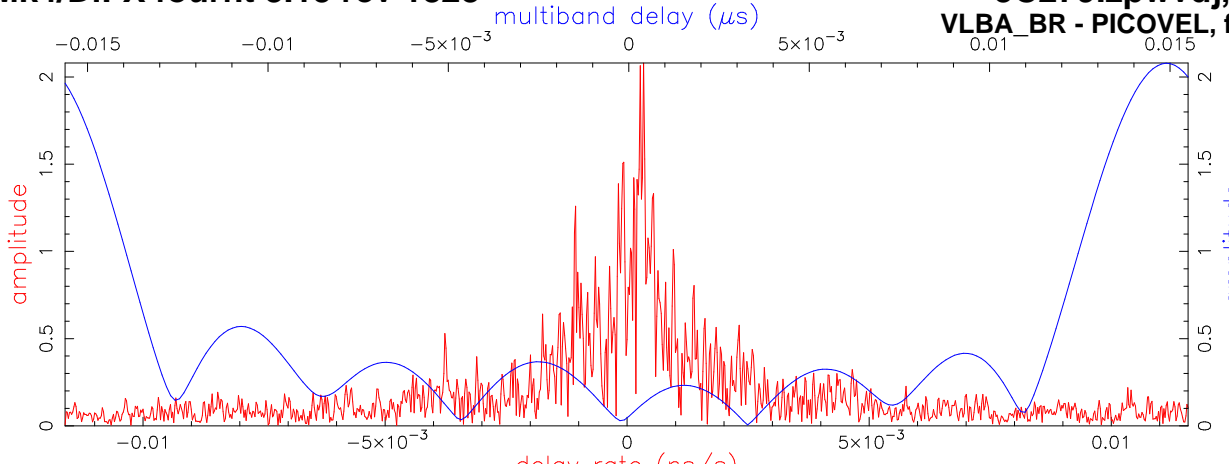


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

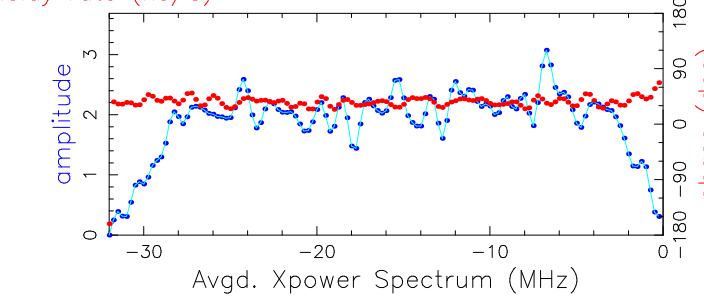
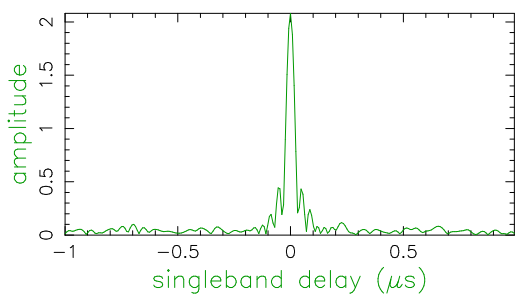


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-108.7	-95.1	-87.9	-88.9	-92.3	-83.2	-95.6	-111.2	Phase	-95.2
	1.9	2.0	1.9	1.9	2.0	1.9	1.8	1.7	Ampl.	1.9
	124.6	124.7	124.7	124.6	124.5	124.6	124.4	124.5	Sbd box	124.6
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
b	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)		2.13402098189E+03		Apriori delay (usec)		2.13405558189E+03		Resid mbdelay (usec)	-3.34999E-03	+/- 3.8E-05
Sband delay (usec)		2.13402106139E+03		Apriori clock (usec)		-4.8824949E+00		Resid sbdelay (usec)	-3.45205E-02	+/- 3.0E-04
Phase delay (usec)		2.13405557882E+03		Apriori clockrate (us/s)		-5.0937320E-07		Resid phdelay (usec)	-3.06892E-06	+/- 6.5E-08
Delay rate (us/s)		1.91889876227E+00		Apriori rate (us/s)		1.91889850011E+00		Resid rate (us/s)	2.62162E-07	+/- 4.7E-10
Total phase (deg)			381.4	Apriori accel (us/s/s)		-1.30117807678E-05		Resid phase (deg)	84.8	+/- 2.0

ph/seg (deg) 76.4 4.8 Theor. Amplitude 1.902 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 125.2 8.4 Search (1024X32) 1.671 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 10.7 2.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 4.6 5.0 Inc. seg. avg. 3.953 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 b: az 125.4 el 20.4 pa -33.2 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11055.800 1349.553 ion window (TEC) 0.00 0.00  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bP..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bP.W.25.zpwvdj simultaneous interpolator

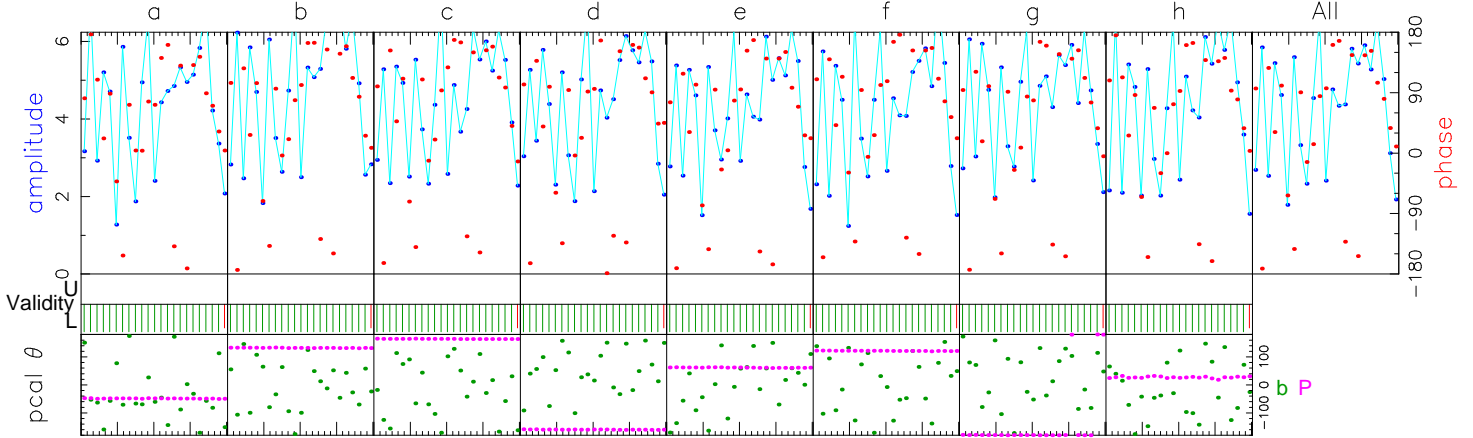


Fringe quality 5  
SNR 62.3  
Int time 239.680  
Amp 2.081  
Phase 126.1  
PFD 0.0e+00  
Delays (us)  
SBD -0.000716  
MBD 0.014902  
Fringe rate (Hz) 0.028489  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500



Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024417  
2017:188:152524  
RA & Dec (J2000) 12h56m11.1666s  
-5°47'21.525"

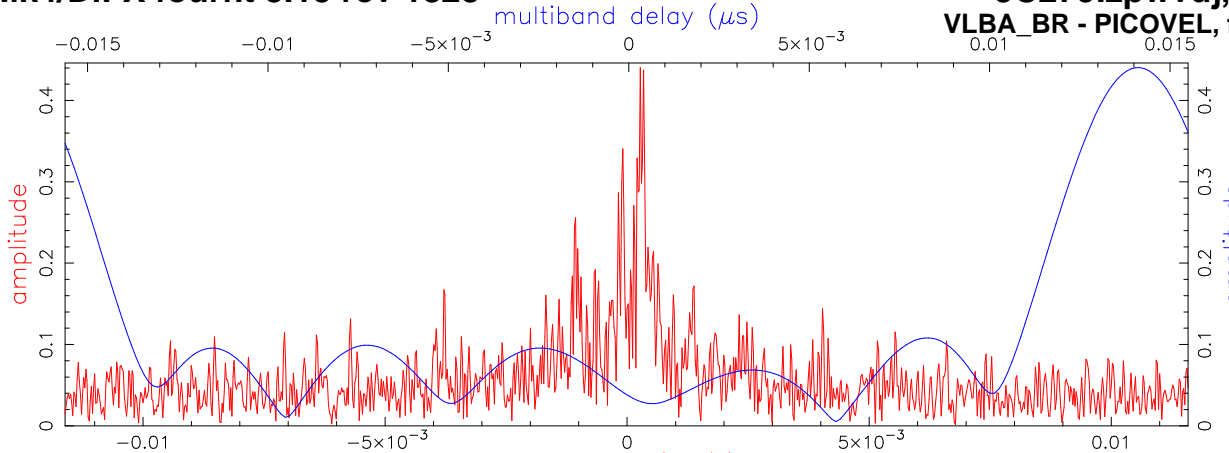
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



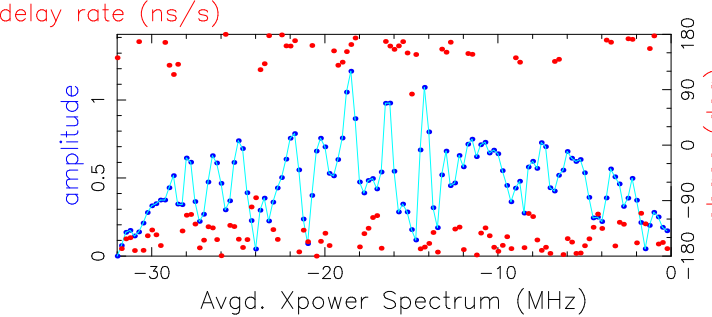
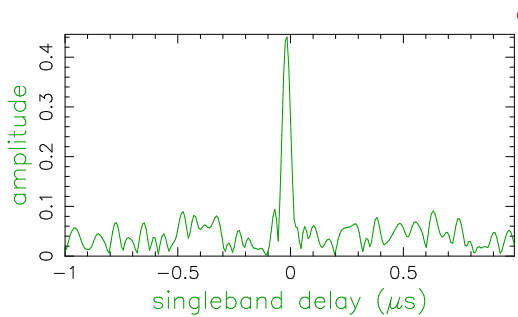
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	126.1	126.1
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	2.1	2.1
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	128.9	128.9
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	2.1	2.1
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	128.9	128.9
b	1000	1000	1000	1000	1000	1000	1000	1000	2.1	2.1
P	1000	1000	1000	1000	1000	1000	1000	1000	128.9	128.9
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	APs used	APs used
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	PC freqs	PC freqs
									PC phase	PC phase
									ManI PC	ManI PC
									PC amp	PC amp
									Chan ids	Chan ids
									Tracks	Tracks
									Tracks	Tracks

Group delay (usec)(sbd) 2.13407048432E+03 Apriori delay (usec) 2.1340558189E+03 Resid mbdelay (usec) 1.49024E-02 +/- 3.5E-05  
 Sband delay (usec) 2.13405486539E+03 Apriori clock (usec) -4.8824949E+00 Resid sbdelay (usec) -7.16500E-04 +/- 2.8E-04  
 Phase delay (usec) 2.13405558596E+03 Apriori clockrate (us/s) -5.0937320E-07 Resid phdelay (usec) 4.06620E-06 +/- 5.9E-08  
 Delay rate (us/s) 1.9188983084E+00 Apriori rate (us/s) 1.91889850011E+00 Resid rate (us/s) 3.30726E-07 +/- 4.3E-10  
 Total phase (deg) 62.7 Apriori accel (us/s/s) -1.30117807678E-05 Resid phase (deg) 126.1 +/- 1.8

ph/seg (deg) 75.7 4.4 Search (1024X32) 1.945 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 131.2 7.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 9.2 2.6 Inc. seg. avg. 4.360 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 4.2 4.5 Inc. frq. avg. 2.098 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 b: az 125.4 el 20.4 pa -33.2 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11055.800 1349.553 ion window (TEC) 0.00 0.00

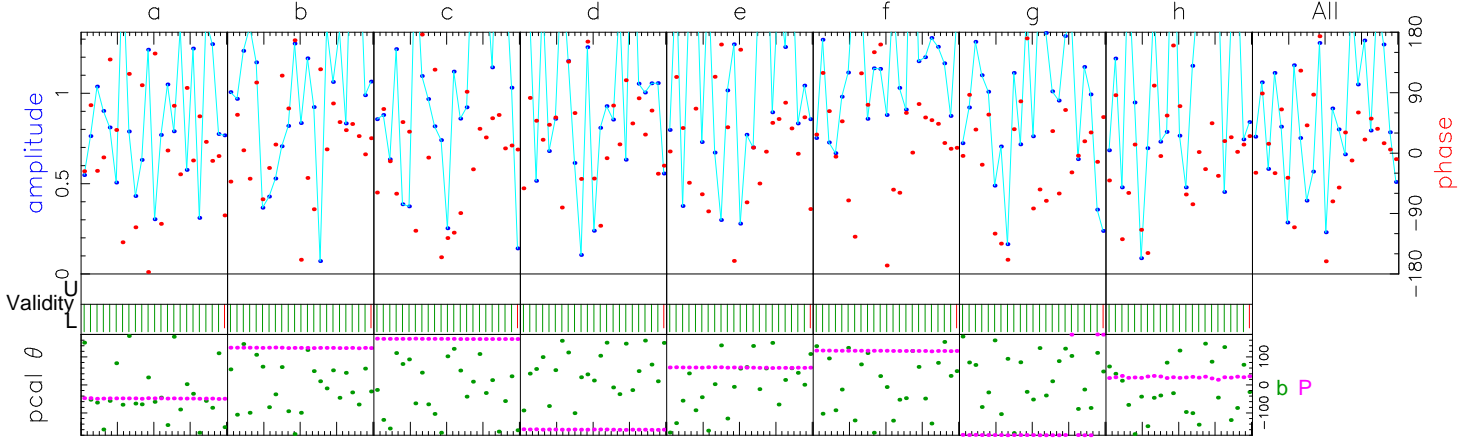


Fringe quality 9  
 SNR 13.4  
 Int time 239.680  
 Amp 0.446  
 Phase 197.7  
 PFD 1.7e-32  
 Delays (us)  
 SBD -0.018696  
 MBD 0.014147  
 Fringe rate (Hz)  
 0.022904  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500



Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024418  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

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

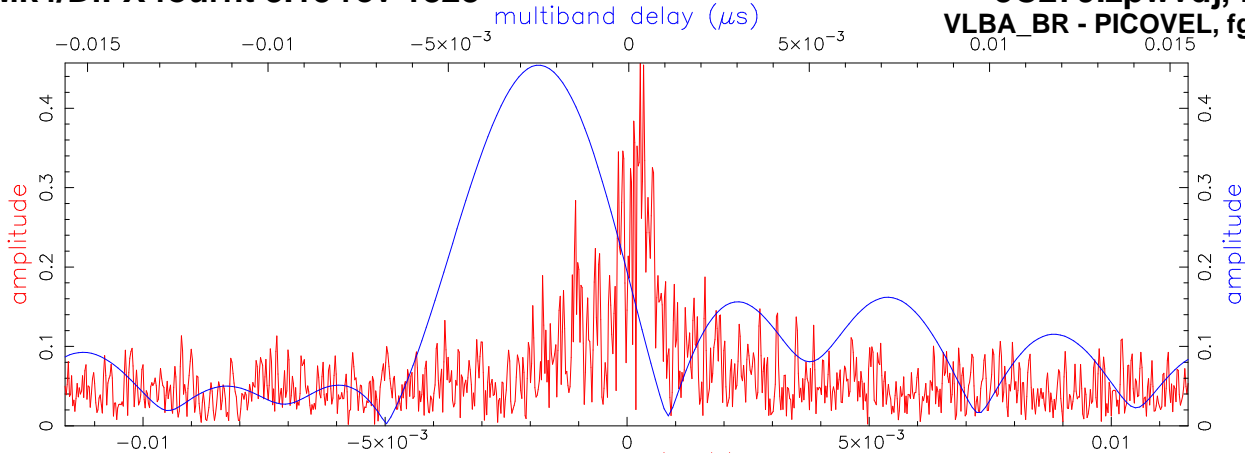


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

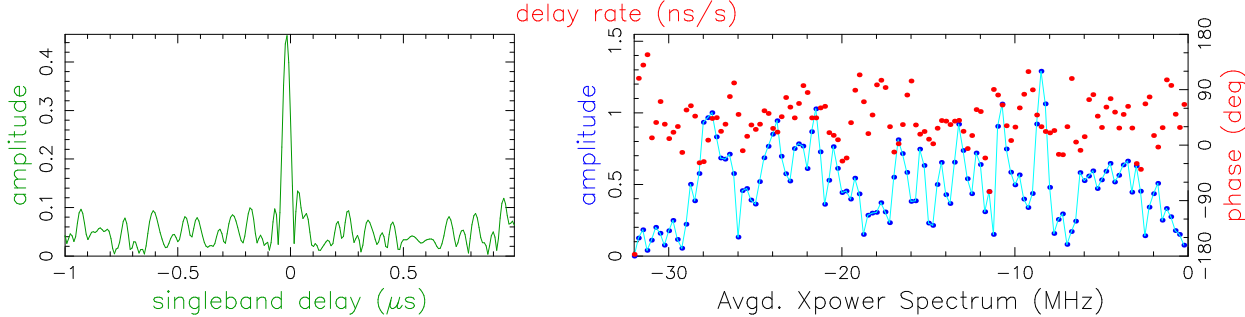
Group delay (usec)(sbd)	2.13403847883E+03	Apriori delay (usec)	2.13405558189E+03	Resid mbdelay (usec)	1.41469E-02	+/-	1.6E-04
Sband delay (usec)	2.13403688589E+03	Apriori clock (usec)	-4.8824949E+00	Resid sbdelay (usec)	-1.86960E-02	+/-	1.3E-03
Phase delay (usec)	2.13405558246E+03	Apriori clockrate (us/s)	-5.0937320E-07	Resid phdelay (usec)	5.69298E-07	+/-	2.8E-07
Delay rate (us/s)	1.91889876601E+00	Apriori rate (us/s)	1.91889850011E+00	Resid rate (us/s)	2.65897E-07	+/-	2.0E-09
Total phase (deg)	494.3	Apriori accel (us/s/s)	-1.30117807678E-05	Resid phase (deg)	197.7	+/-	8.6

ph/seg (deg)	72.9	Theor.	20.6	Amplitude	0.446 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	125.8	Search (1024X32)	0.417	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	15.9	Interp.	0.000	Inc. seg. avg.	0.825	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	19.0	Inc. frq. avg.	0.442	Inc. frq. avg.	0.442	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

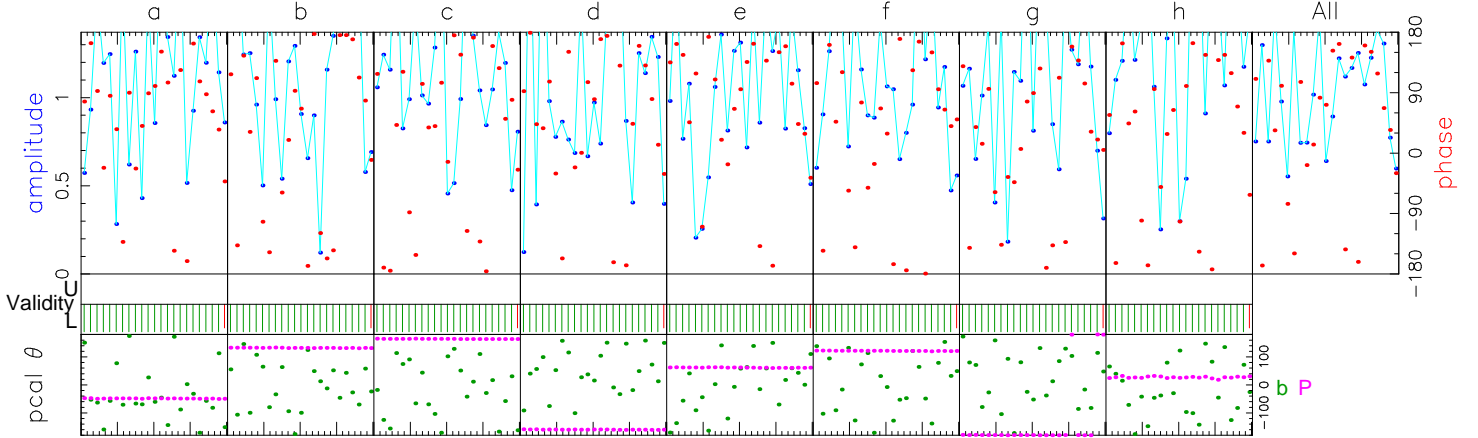
b: az 125.4 el 20.4 pa -33.2 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11055.800 1349.553 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bP..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bP.W.27.zpwvdj



Fringe quality 9  
SNR 13.7  
Int time 239.680  
Amp 0.457  
Phase 127.2  
PFD 2.0e-34  
Delays (us)  
SBD -0.017698  
MBD -0.002482  
Fringe rate (Hz) 0.028493  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024419  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"



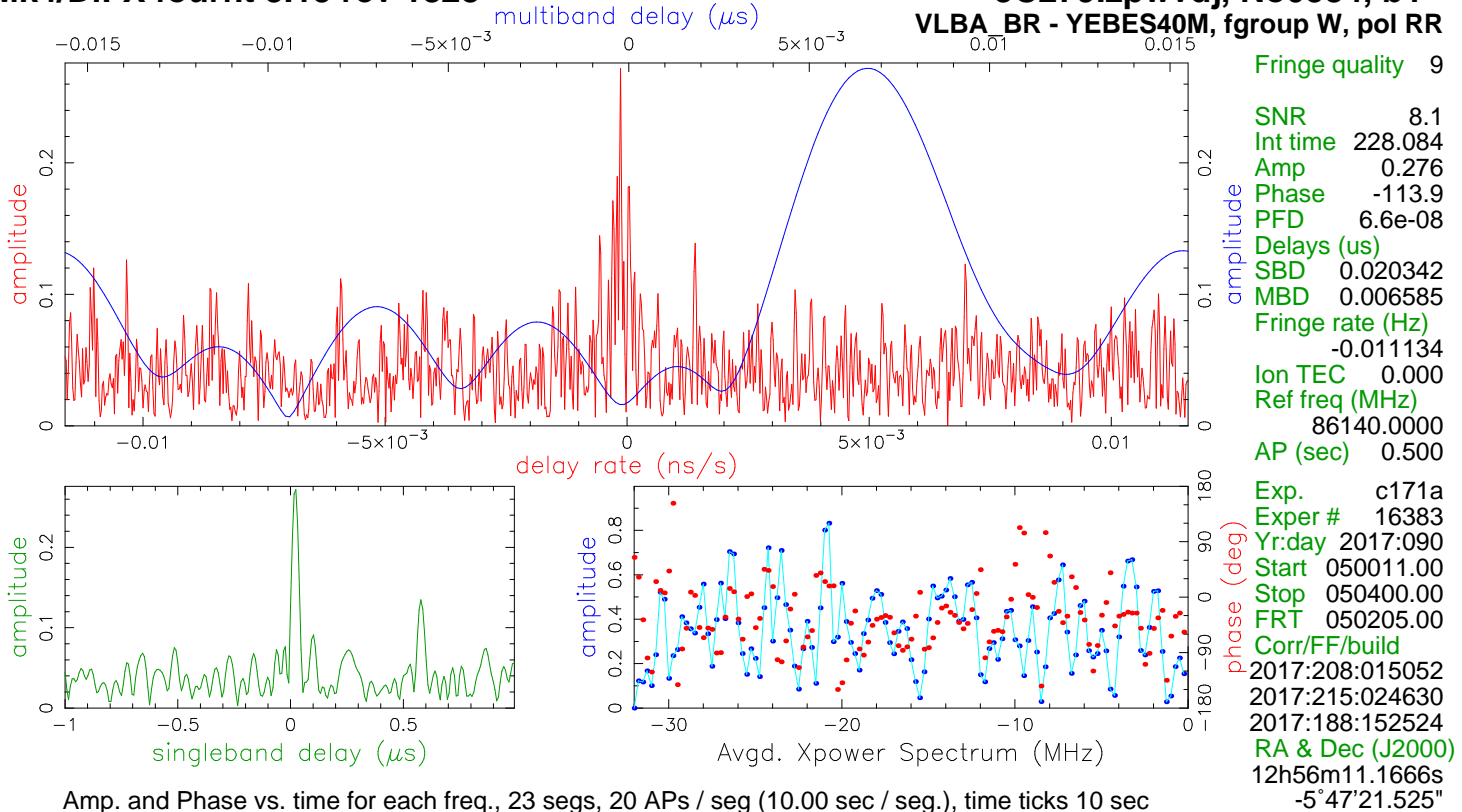
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



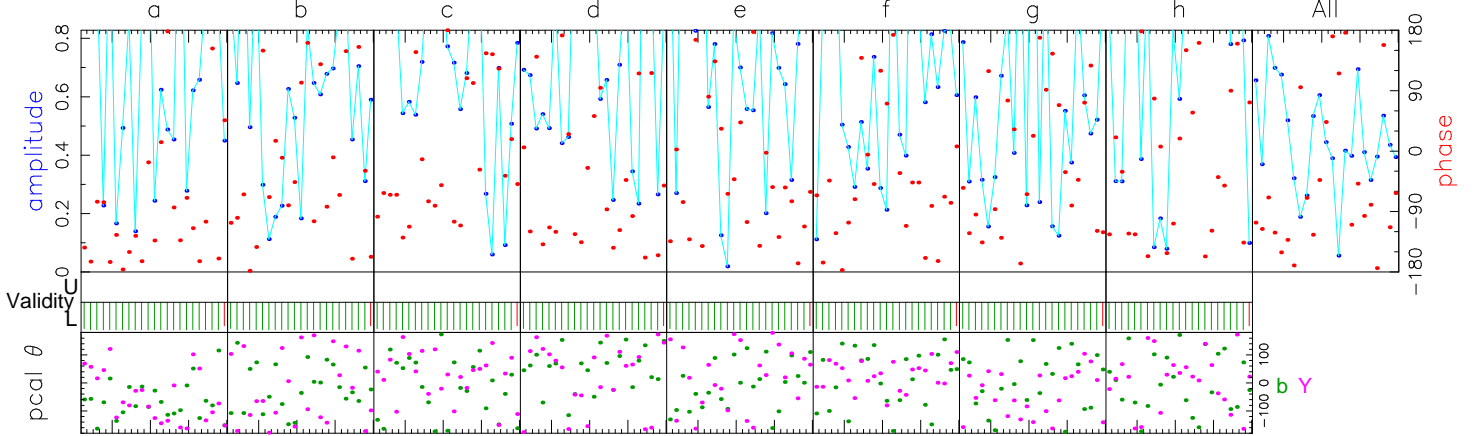
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	126.7	126.7
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	0.5	0.5
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	126.7	126.7
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.0	0.0
b:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.0	0.0
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
P	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Group delay (usec)(sbd)	2.13405310019E+03		Apriori delay (usec)		2.1340558189E+03		Resid mbdelay (usec)		-2.48170E-03	+/- 1.6E-04
Sband delay (usec)	2.13403788439E+03		Apriori clock (usec)		-4.8824949E+00		Resid sbdelay (usec)		-1.76975E-02	+/- 1.3E-03
Phase delay (usec)	2.13405558599E+03		Apriori clockrate (us/s)		-5.0937320E-07		Resid phdelay (usec)		4.10321E-06	+/- 2.7E-07
Delay rate (us/s)	1.91889883089E+00		Apriori rate (us/s)		1.91889850011E+00		Resid rate (us/s)		3.30775E-07	+/- 1.9E-09
Total phase (deg)	63.9		Apriori accel (us/s/s)		-1.30117807678E-05		Resid phase (deg)		127.2	+/- 8.4
ph/seg (deg)	RMS 77.1	Theor. 20.1	Amplitude 0.457 +/- 0.033	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000	1.000
amp/seg (%)	142.4	35.1	Search (1024X32) 0.420	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.016	0.016
ph/frq (deg)	18.1	11.8	Interp. 0.000	Bits/sample: 2x2		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012
amp/frq (%)	18.0	20.7	Inc. seg. avg. 0.980	Data rate(Mb/s): 1024		nlags: 128 t_cohere infinite		ion window (TEC)	0.00	0.00
			Inc. frq. avg. 0.464	u,v (fr/asec) -11055.800 1349.553						simultaneous interpolator

b: az 125.4 el 20.4 pa -33.2 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11055.800 1349.553  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bP..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bP.W.28.zpwvdj





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

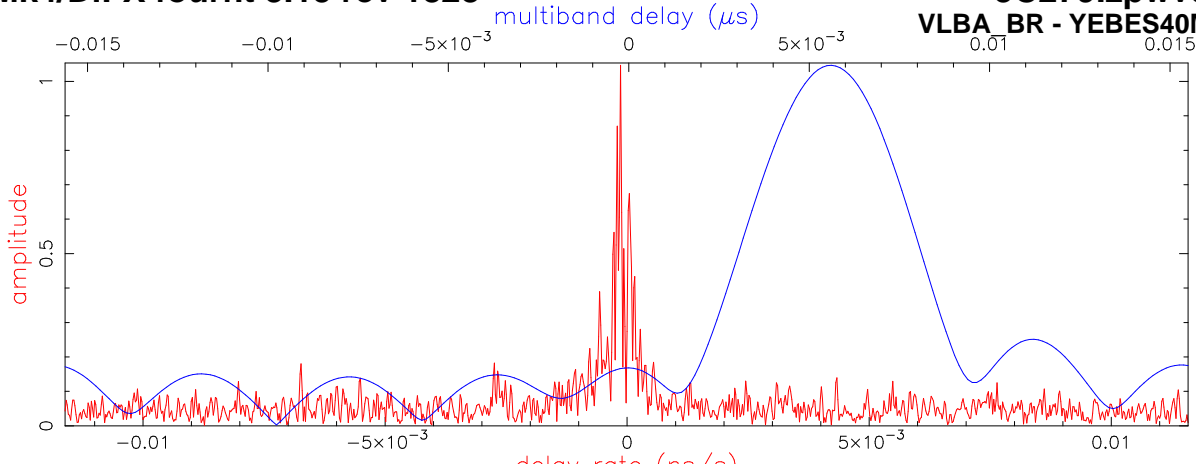


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-135.8	-118.0	-75.7	-121.6	-115.1	-92.9	-59.6	-146.9	Phase	-113.9
0.4	0.3	0.3	0.3	0.4	0.3	0.1	0.3	Ampl.	0.3
131.3	132.9	131.4	187.6	132.4	38.8	12.7	130.7	Sbd box	131.6
U/L 0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
b -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Y 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	
Y 1000	1000	1000	1000	1000	1000	1000	1000		
b 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)	2.63037890837E+03	Apriori delay (usec)	2.63037232329E+03	Resid mbdelay (usec)	6.58509E-03	+/-	2.7E-04		
Sband delay (usec)	2.63039266529E+03	Apriori clock (usec)	-8.2301121E+00	Resid sbdelay (usec)	2.03420E-02	+/-	2.1E-03		
Phase delay (usec)	2.63037231961E+03	Apriori clockrate (us/s)	-4.4937320E-07	Resid phdelay (usec)	-3.67434E-06	+/-	4.6E-07		
Delay rate (us/s)	1.86760473732E+00	Apriori rate (us/s)	1.86760486657E+00	Resid rate (us/s)	-1.29255E-07	+/-	3.5E-09		
Total phase (deg)	220.1	Apriori accel (us/s/s)	-1.51258253596E-05	Resid phase (deg)	-113.9	+/-	14.2		

ph/seg (deg)	69.0	Theor.	34.1	Amplitude	0.276 +/- 0.034	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	91.3	Search (1024X32)	0.263	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	32.9	Inc. seg. avg.	0.389	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.016
amp/frq (%)	38.4	Inc. frq. avg.	0.280	Sample rate (MSamp/s):	64	ion window (TEC)	0.00	0.00	
				Data rate (Mb/s):	1024	nlags:	128	t_cohere	infinite

b: az 125.4 el 20.4 pa -33.2 Y: az 249.7 el 13.7 pa 45.9 u,v (fr/asec) -10762.183 953.769 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bY..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bY.W.150.zpwvdj



Fringe quality 6

SNR 30.8

Int time 228.084

Amp 1.053

Phase -137.9

PFD 0.0e+00

Delays (us)

SBD 0.005663

MBD 0.005599

Fringe rate (Hz)

-0.011213

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:090

Start 050011.00

Stop 050400.00

FRT 050205.00

Corr/FF/build

2017:208:015052

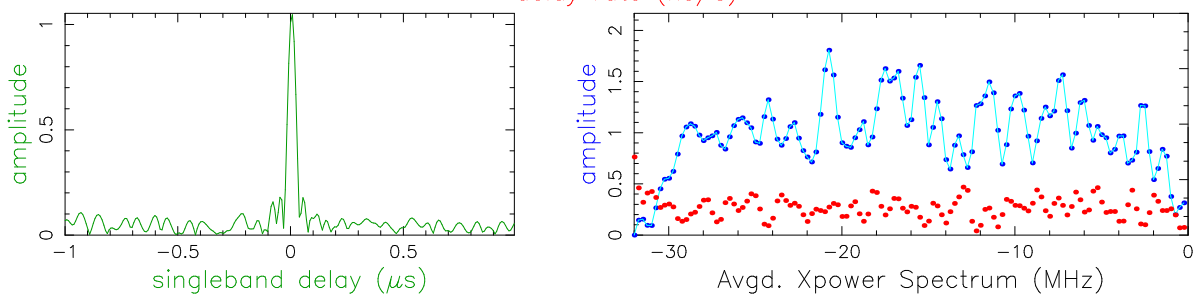
2017:215:024631

2017:188:152524

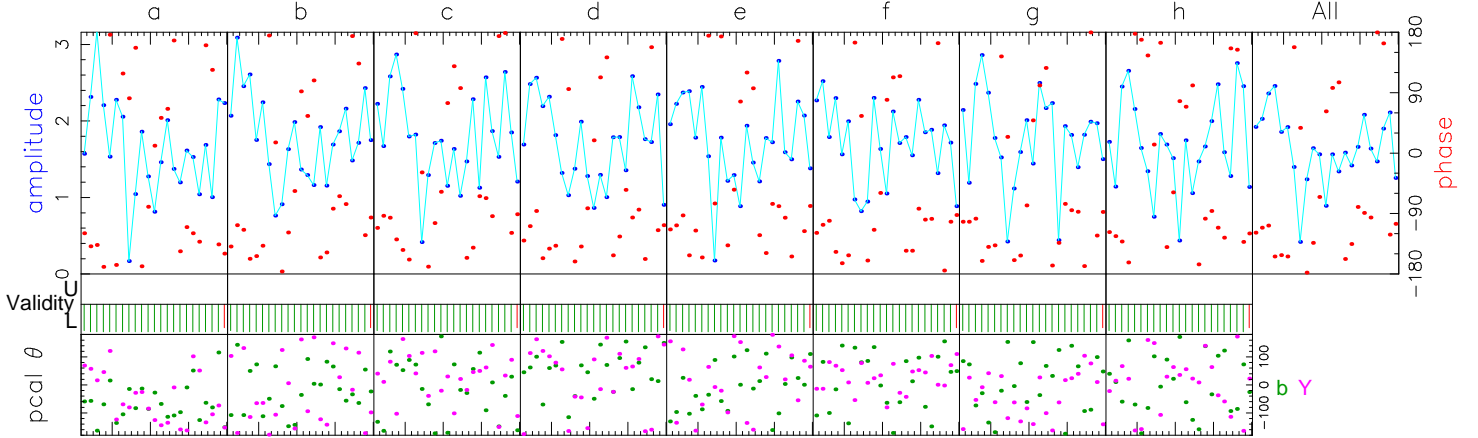
RA & Dec (J2000)

12h56m11.1666s

-5° 47' 21.525"



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
	-161.7	-130.2	-128.8	-130.9	-131.4	-134.3	-138.2	-151.8	Phase	-137.9
	1.0	1.0	1.1	1.2	1.1	1.0	1.0	1.0	Ampl.	1.1
	129.8	130.1	129.8	129.9	129.5	130.0	129.6	129.1	Sbd box	129.7
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	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)	2.63037792262E+03		Apriori delay (usec)		2.63037232329E+03		Resid mbdelay (usec)		5.59934E-03	+/- 7.1E-05
Sband delay (usec)	2.63037798629E+03		Apriori clock (usec)		-8.2301121E+00		Resid sbdelay (usec)		5.66300E-03	+/- 5.6E-04
Phase delay (usec)	2.63037231884E+03		Apriori clockrate (us/s)		-4.4937320E-07		Resid phdelay (usec)		-4.44543E-06	+/- 1.2E-07
Delay rate (us/s)	1.86760473641E+00		Apriori rate (us/s)		1.86760486657E+00		Resid rate (us/s)		-1.30167E-07	+/- 9.1E-10
Total phase (deg)	196.2		Apriori accel (us/s/s)		-1.51258253596E-05		Resid phase (deg)		-137.9	+/- 3.7

RMS Theor. Amplitude 1.053 +/- 0.034

ph/seg (deg) 70.6 8.9 Search (1024X32) 1.006

amp/seg (%) 70.3 15.6 Interp. 0.000

ph/frq (deg) 13.0 5.3 Inc. seg. avg. 1.623

amp/frq (%) 6.3 9.2 Inc. frq. avg. 1.062

Group delay (usec)(sbd) 2.63037792262E+03 Apriori delay (usec) 2.63037232329E+03 Resid mbdelay (usec) 5.59934E-03 +/- 7.1E-05

Sband delay (usec) 2.63037798629E+03 Apriori clock (usec) -8.2301121E+00 Resid sbdelay (usec) 5.66300E-03 +/- 5.6E-04

Phase delay (usec) 2.63037231884E+03 Apriori clockrate (us/s) -4.4937320E-07 Resid phdelay (usec) -4.44543E-06 +/- 1.2E-07

Delay rate (us/s) 1.86760473641E+00 Apriori rate (us/s) 1.86760486657E+00 Resid rate (us/s) -1.30167E-07 +/- 9.1E-10

Total phase (deg) 196.2 Apriori accel (us/s/s) -1.51258253596E-05 Resid phase (deg) -137.9 +/- 3.7

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

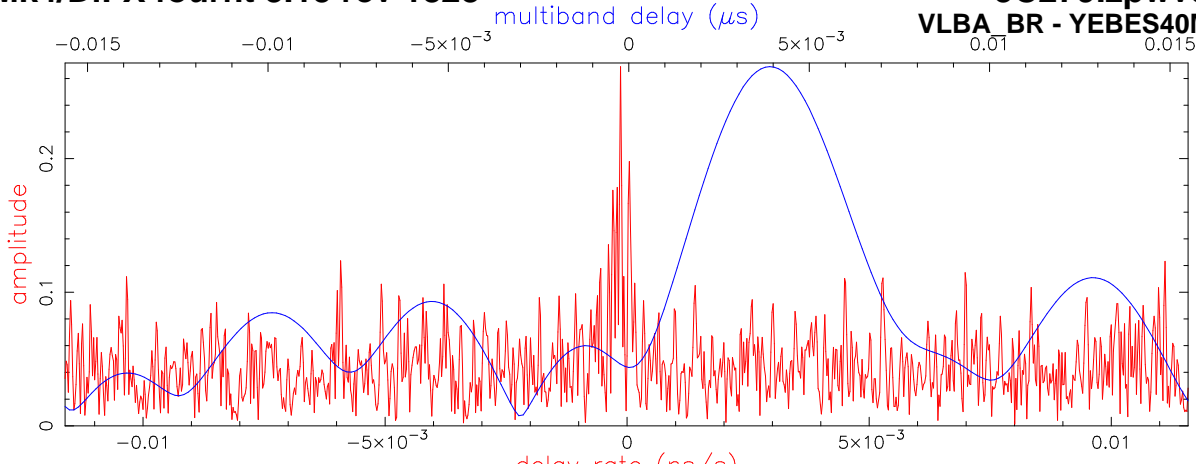
Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012

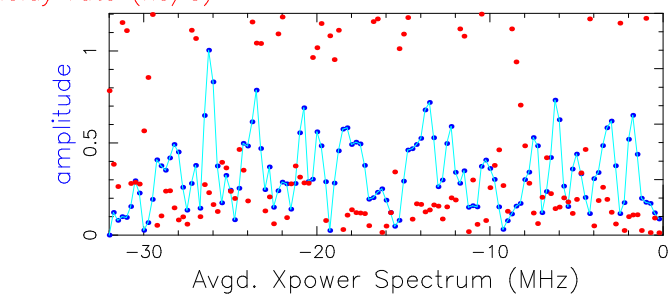
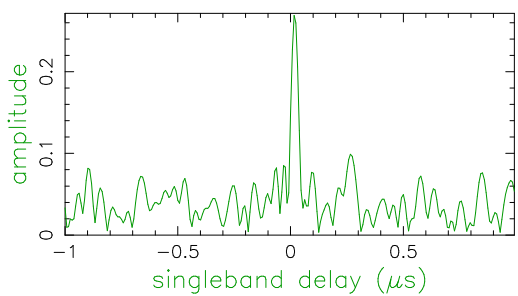
ion window (TEC) 0.00 0.00

b: az 125.4 el 20.4 pa -33.2 Y: az 249.7 el 13.7 pa 45.9 u,v (fr/asec) -10762.183 953.769 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bY..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bY.W.151.zpwvdj

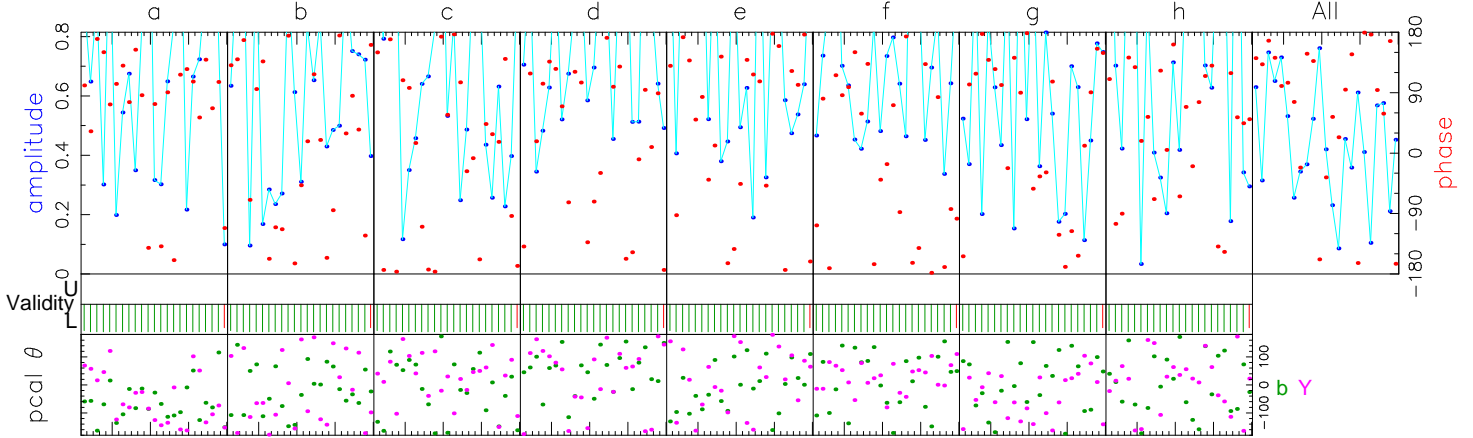


Fringe quality 9  
 SNR 7.9  
 Int time 228.084  
 Amp 0.272  
 Phase 135.9  
 PFD 1.8e-07  
 Delays (us)  
 SBD 0.018140  
 MBD 0.003932  
 Fringe rate (Hz)  
 -0.011285  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500



Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050011.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024632  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

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
115.4	133.2	173.7	127.5	143.3	163.3	135.9	101.3	Phase	135.9
0.4	0.2	0.3	0.3	0.4	0.3	0.2	0.3	Ampl.	0.3
131.1	22.9	130.8	187.2	132.0	65.1	149.0	162.7	Sbd box	131.3
U/L 0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
b -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC phase	
b:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
b:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
b 1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
Y 1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
b W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Y W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
Group delay (usec)(sbd)	2.63037625519E+03	Apriori delay (usec)	2.63037232329E+03	Resid mbdelay (usec)	3.93190E-03	+/-	2.7E-04		
Sband delay (usec)	2.63039046279E+03	Apriori clock (usec)	-8.2301121E+00	Resid sbdelay (usec)	1.81395E-02	+/-	2.2E-03		
Phase delay (usec)	2.63037232767E+03	Apriori clockrate (us/s)	-4.4937320E-07	Resid phdelay (usec)	4.38277E-06	+/-	4.7E-07		
Delay rate (us/s)	1.86760473557E+00	Apriori rate (us/s)	1.86760486657E+00	Resid rate (us/s)	-1.31008E-07	+/-	3.5E-09		
Total phase (deg)	110.0	Apriori accel (us/s/s)	-1.51258253596E-05	Resid phase (deg)	135.9	+/-	14.4		

ph/seg (deg) 68.1 RMS 34.6 Theor. 34.6 Amplitude 0.272 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 96.4 60.5 Search (1024X32) 0.262 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 25.6 20.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 31.9 35.7 Inc. seg. avg. 0.380 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 b: az 125.4 el 20.4 pa -33.2 Y: az 249.7 el 13.7 pa 45.9 u,v (fr/asec) -10762.183 953.769 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bY...zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bY.W.152.zpwvdj