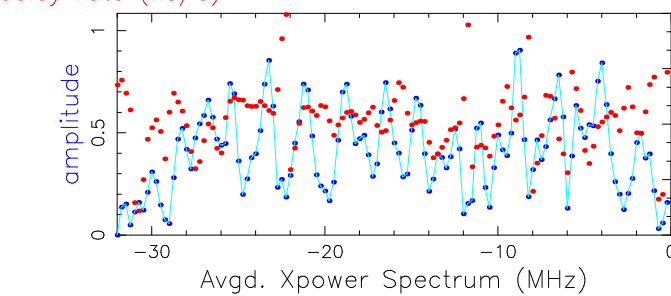
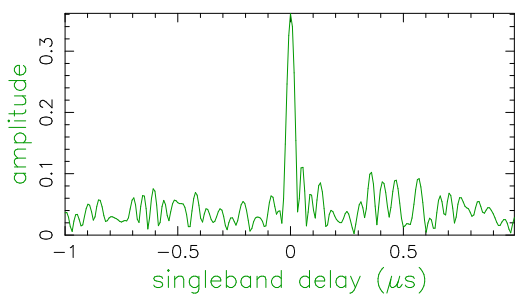
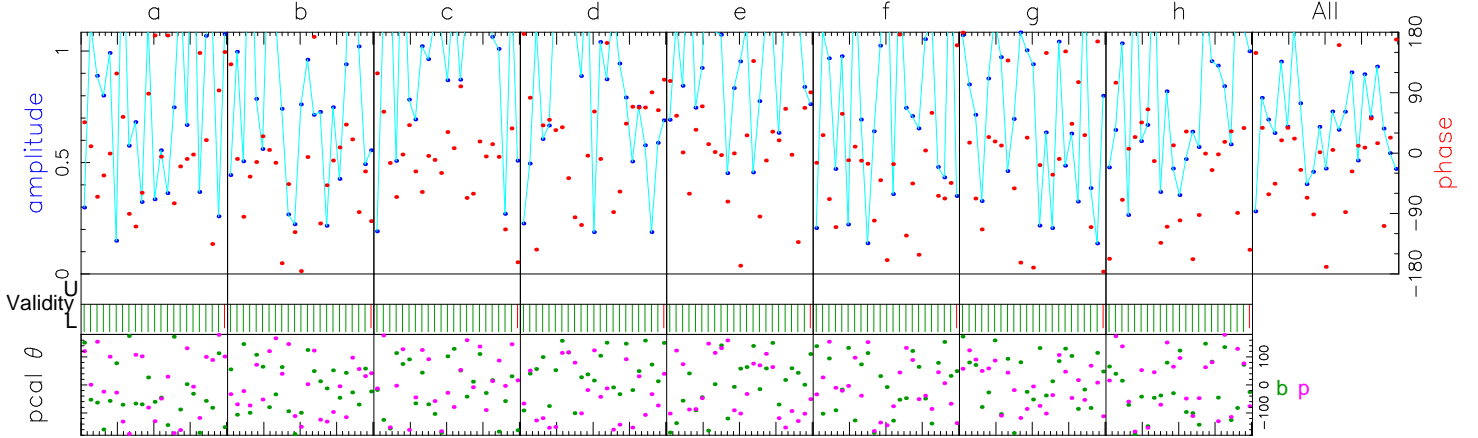


Fringe quality 9  
 SNR 10.8  
 Int time 239.988  
 Amp 0.362  
 Phase -5.0  
 PFD 2.7e-19  
 Delays (us)  
 SBD 0.001090  
 MBD -0.000834  
 Fringe rate (Hz)  
 -0.013180  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 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

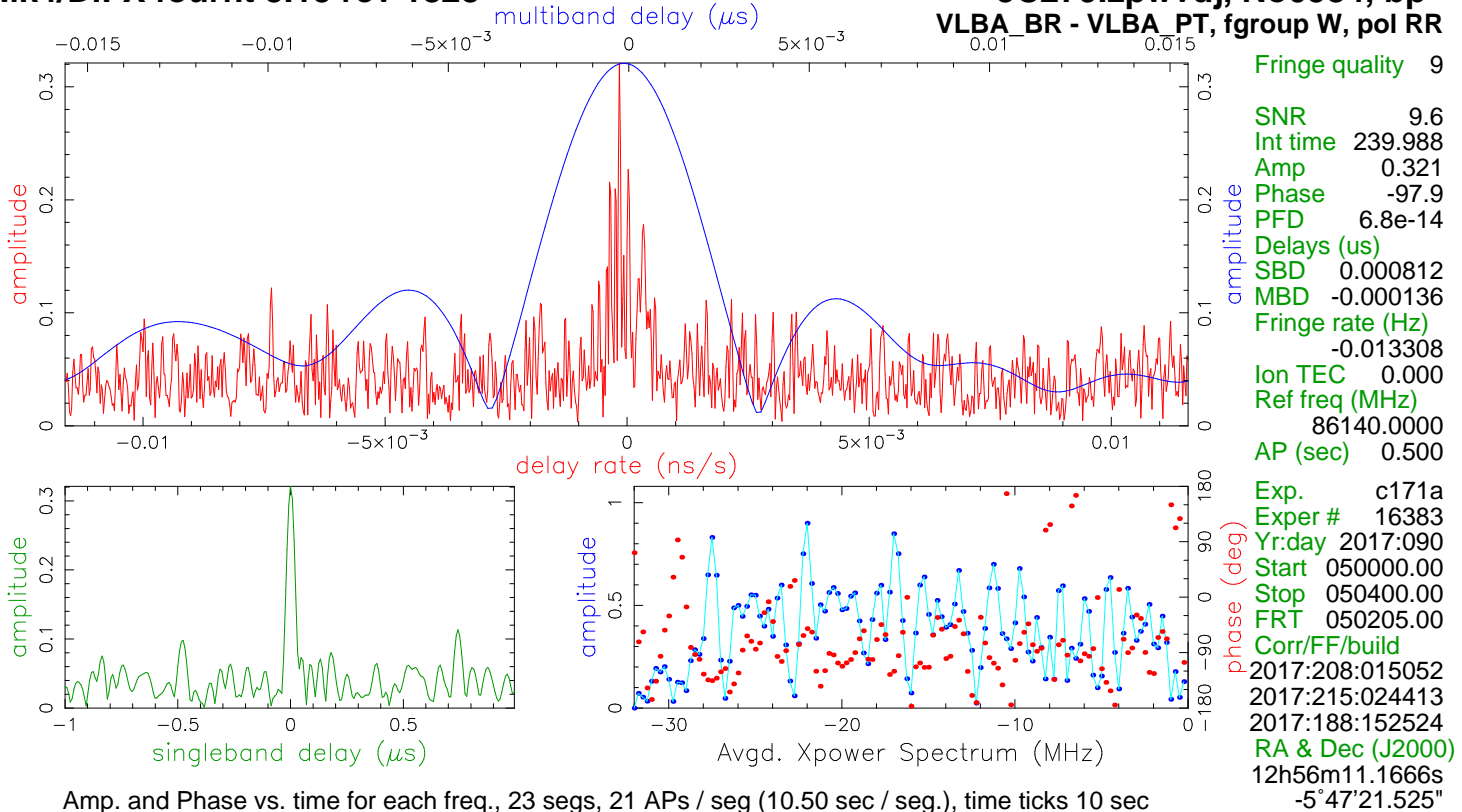


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
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	

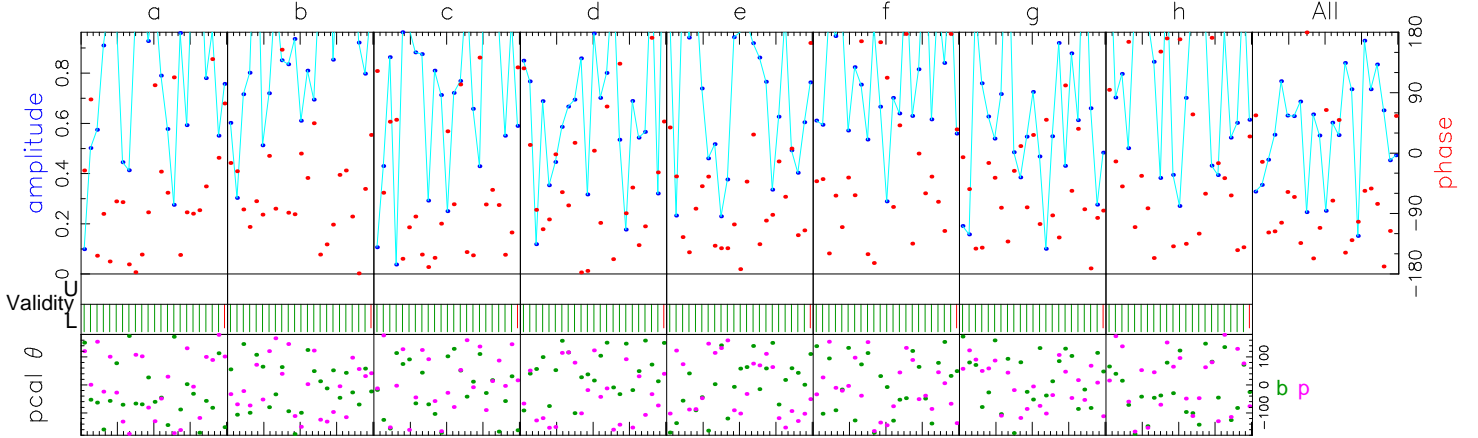
Group delay (usec)(sbd)	-5.01801527465E+03	Apriori delay (usec)	-5.01801444085E+03	Resid mbdelay (usec)	-8.33800E-04	+/-	2.0E-04
Sband delay (usec)	-5.01801335085E+03	Apriori clock (usec)	-6.8399935E+00	Resid sbdelay (usec)	1.09000E-03	+/-	1.6E-03
Phase delay (usec)	-5.01801444101E+03	Apriori clockrate (us/s)	-2.5390790E-07	Resid phdelay (usec)	-1.62247E-07	+/-	3.4E-07
Delay rate (us/s)	-1.16133404249E-03	Apriori rate (us/s)	-1.16118104156E-03	Resid rate (us/s)	-1.53001E-07	+/-	2.5E-09
Total phase (deg)	-341.5	Apriori accel (us/s/s)	2.45529987339E-05	Resid phase (deg)	-5.0	+/-	10.6

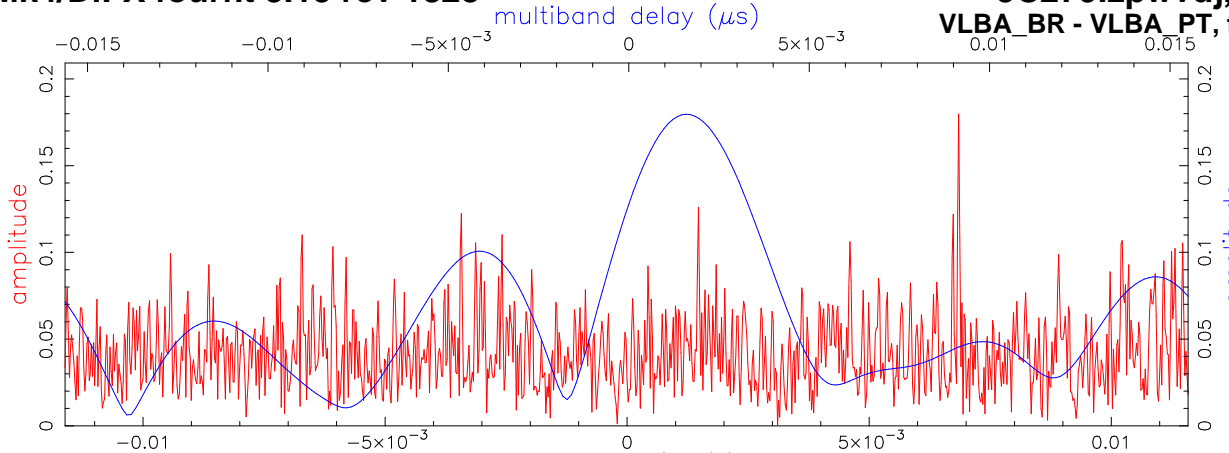
ph/seg (deg)	80.6	Theor.	25.4	Amplitude	0.362 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	102.8	Search (1024X32)	0.352	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	22.4	Interp.	0.000	Inc. seg. avg.	0.619	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	48.1	Inc. frq. avg.	0.366	Inc. frq. avg.	0.366	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
						Data rate(Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00



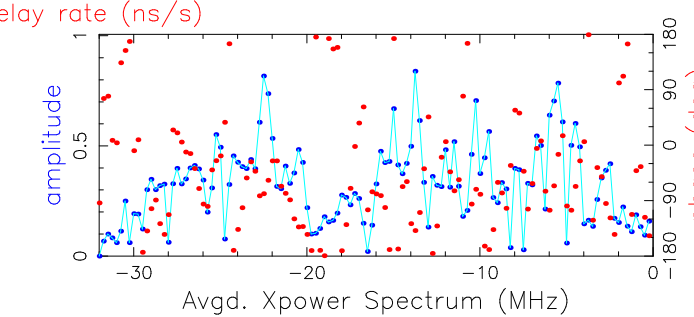
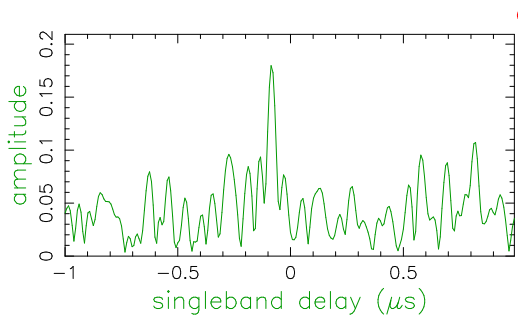
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-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	
								Tracks	
p W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
								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		
RMS	Theor.	Amplitude	0.321 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	74.9	Search (1024X32)	0.316	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	99.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016	0.016	
ph/frq (deg)	14.8	Inc. seg. avg.	0.505	Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012	
amp/frq (%)	37.7	Inc. frq. avg.	0.317	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00	

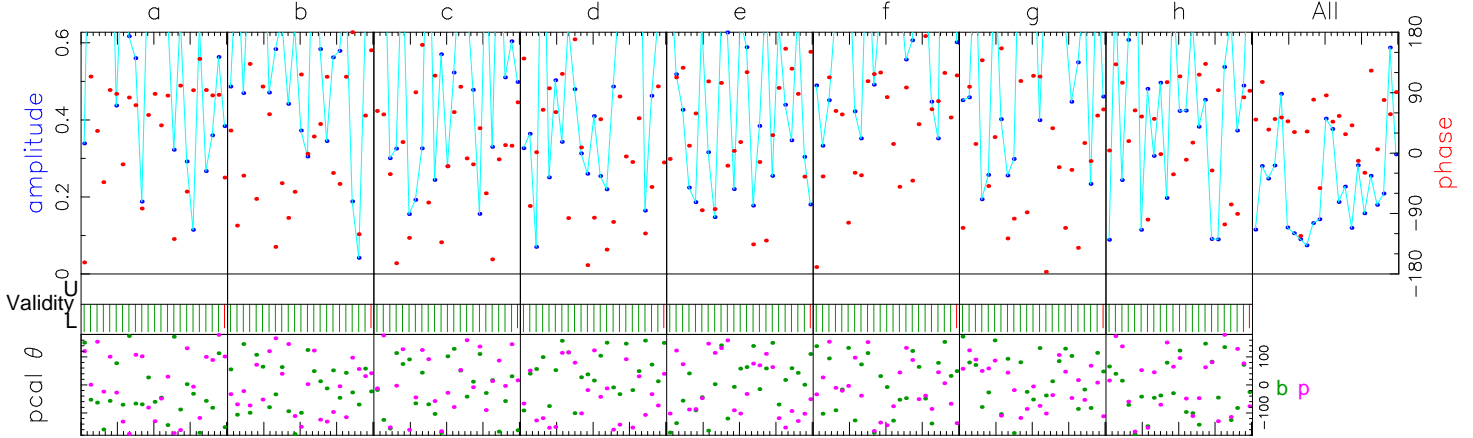


Fringe quality 0  
 SNR 5.4  
 Int time 239.988  
 Amp 0.209  
 Phase 593.4  
 PFD 9.8e-01  
 Delays (us)  
 SBD -0.083975  
 MBD 0.001592  
 Fringe rate (Hz)  
 0.589846  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500



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"

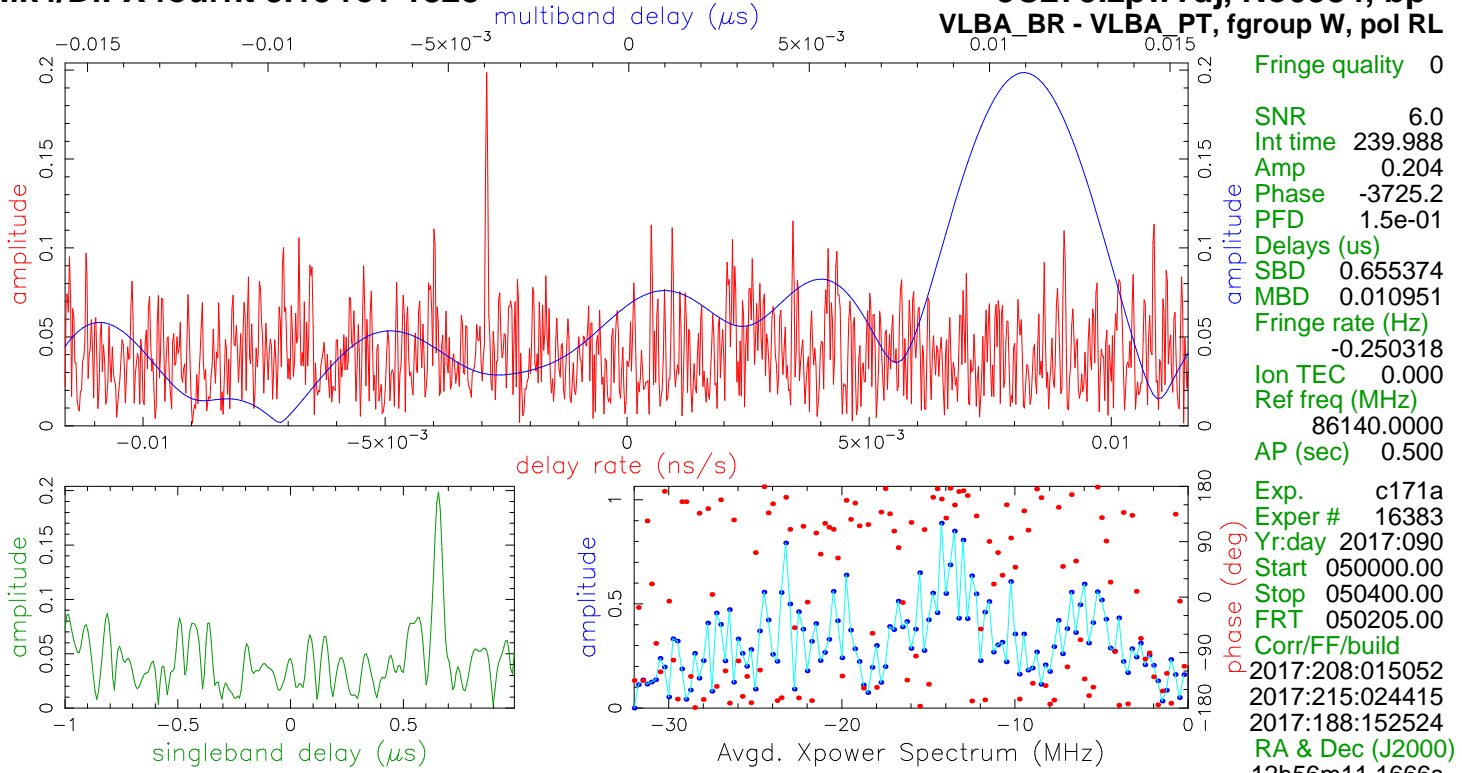
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	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	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	
									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

ph/seg (deg) 54.9 50.8 Search (1024X32) 0.175 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 76.4 88.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 24.1 30.0 Inc. seg. avg. 0.193 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 50.6 52.3 Inc. frq. avg. 0.198 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 Total phase (deg) 257.0 Apriori accel (us/s/s) 2.45529987339E-05 Resid phase (deg) 593.4 +/- 21.2 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.23.zpwvdj



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

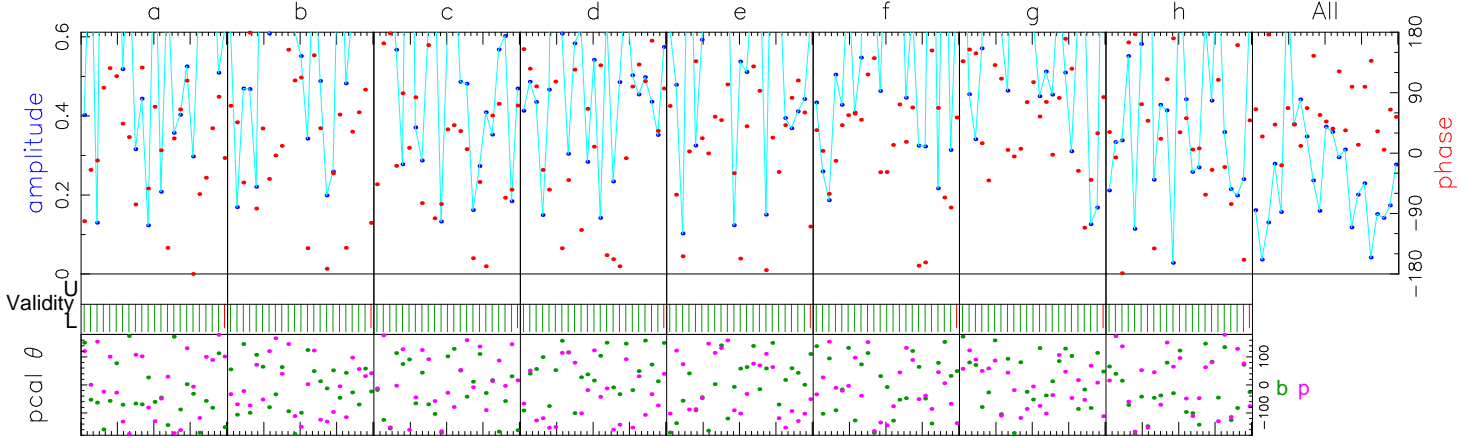
2017:188:152524

RA & Dec (J2000)

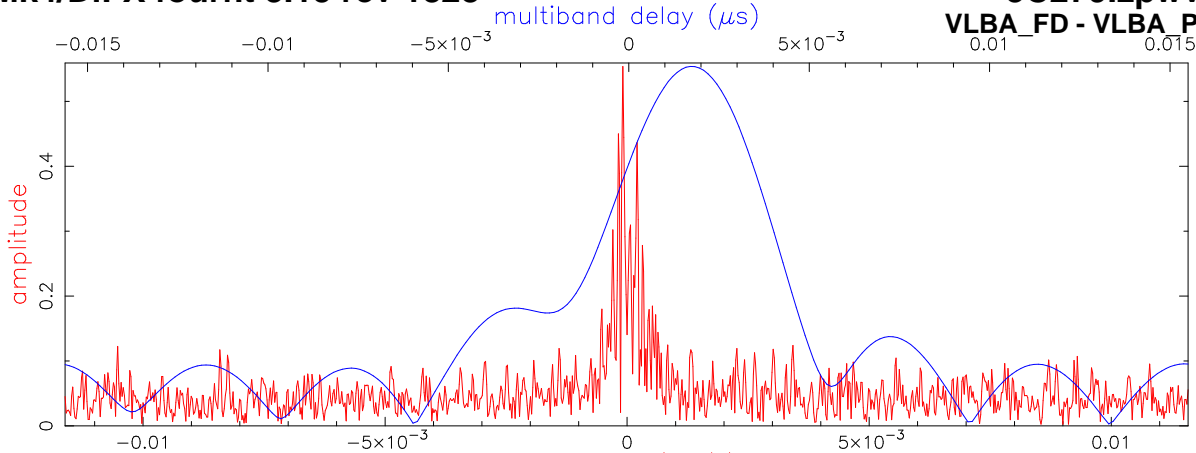
12h56m11.1666s

-5°47'21.525"

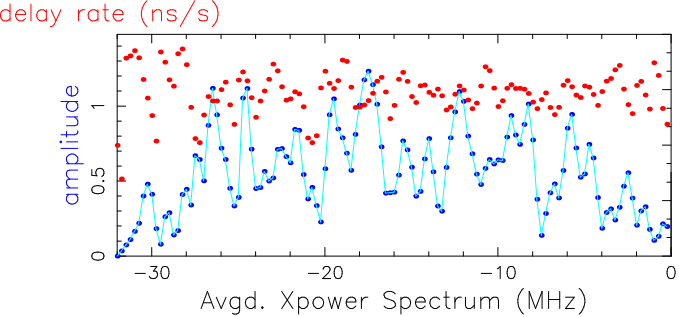
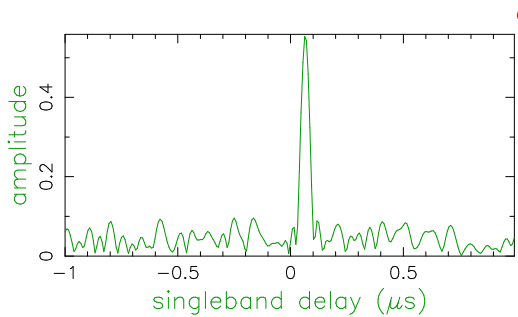
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



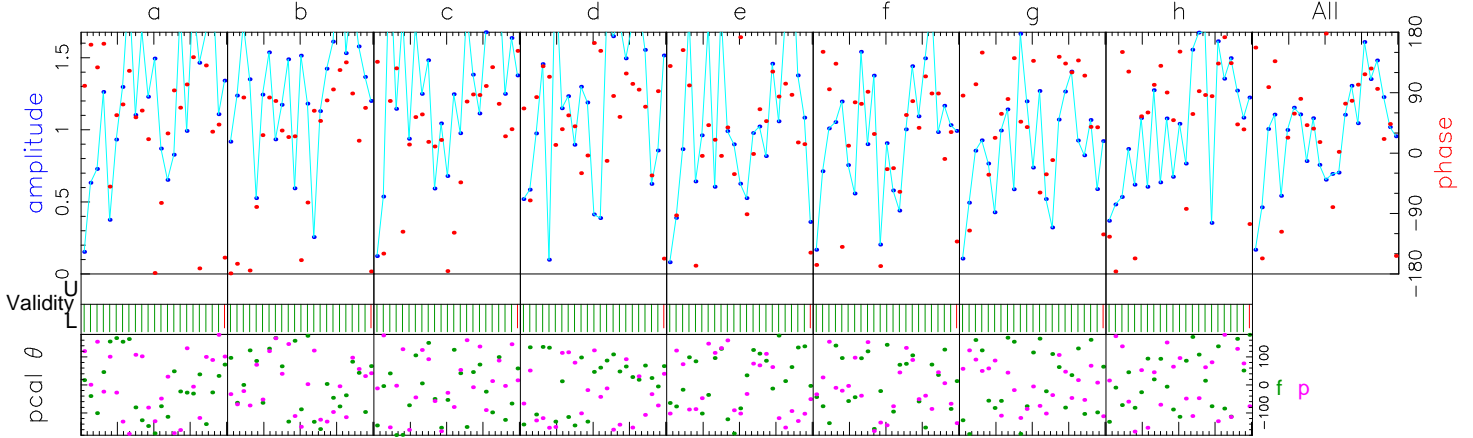
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
	56.7	51.4	8.5	124.4	47.7	54.2	58.7	46.5	Phase	54.8	
	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	Ampl.	0.2	
	61.0	123.1	67.3	202.5	212.1	253.9	201.3	1.6	Sbd box	212.9	
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs 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		
									Tracks		
p	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	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			ion window (TEC)	0.00	0.00	
					nlags: 128 t_cohere infinite						



Fringe quality 9  
 SNR 16.7  
 Int time 239.986  
 Amp 0.559  
 Phase -279.7  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.065337  
 MBD 0.001768  
 Fringe rate (Hz)  
 -0.008760  
 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  
 2017:215:024438  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"



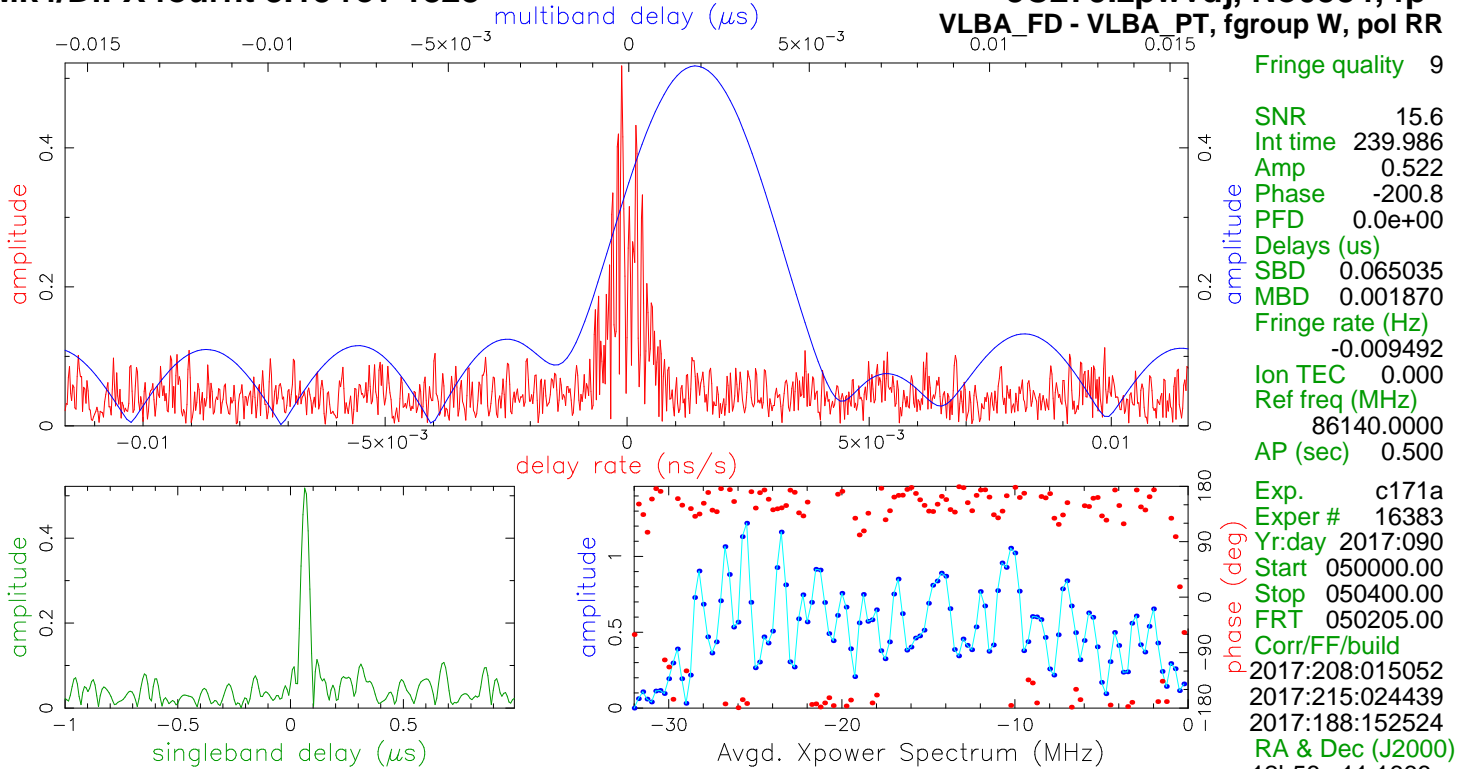
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	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		
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
p	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Group delay (usec)(sbd)		1.46341978790E+03		Apriori delay (usec)	1.46335551978E+03		Resid mbdelay (usec)	1.76812E-03		+/- 1.3E-04
Sband delay (usec)		1.46342085628E+03		Apriori clock (usec)	-3.1295466E+00		Resid sbdelay (usec)	6.53365E-02		+/- 1.0E-03
Phase delay (usec)		1.46335552237E+03		Apriori clockrate (us/s)	-6.8734227E-07		Resid phdelay (usec)	2.59025E-06		+/- 2.2E-07
Delay rate (us/s)		-4.58249530480E-02		Apriori rate (us/s)	-4.58248513516E-02		Resid rate (us/s)	-1.01696E-07		+/- 1.6E-09
Total phase (deg)		-109.1		Apriori accel (us/s/s)	-7.17358282177E-06		Resid phase (deg)	-279.7		+/- 6.8
ph/seg (deg)	RMS 74.4	Theor. 16.4	Amplitude 0.559 +/- 0.033	Search (1024X32)	0.522	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	94.5	28.6	Interp. 0.000	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016	0.016	
ph/frq (deg)	18.9	9.7	Inc. seg. avg. 0.932	Sample rate(MSamp/s): 64		Data rate(Mb/s): 1024	dr window (ns/s)	-0.012	0.012	
amp/frq (%)	16.7	16.9	Inc. frq. avg. 0.570	nlags: 128	t_cohere infinite	ion window (TEC)	0.00	0.00		

f: az 132.0 el 40.8 pa -39.8 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) 258.487 -417.759 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fp..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/fp.W.45.zpwvdj





Fringe quality 9

SNR 15.6

Int time 239.986

Amp 0.522

Phase -200.8

PFD 0.0e+00

Delays (us)

SBD 0.065035

MBD 0.001870

Fringe rate (Hz)

-0.009492

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

2017:215:024439

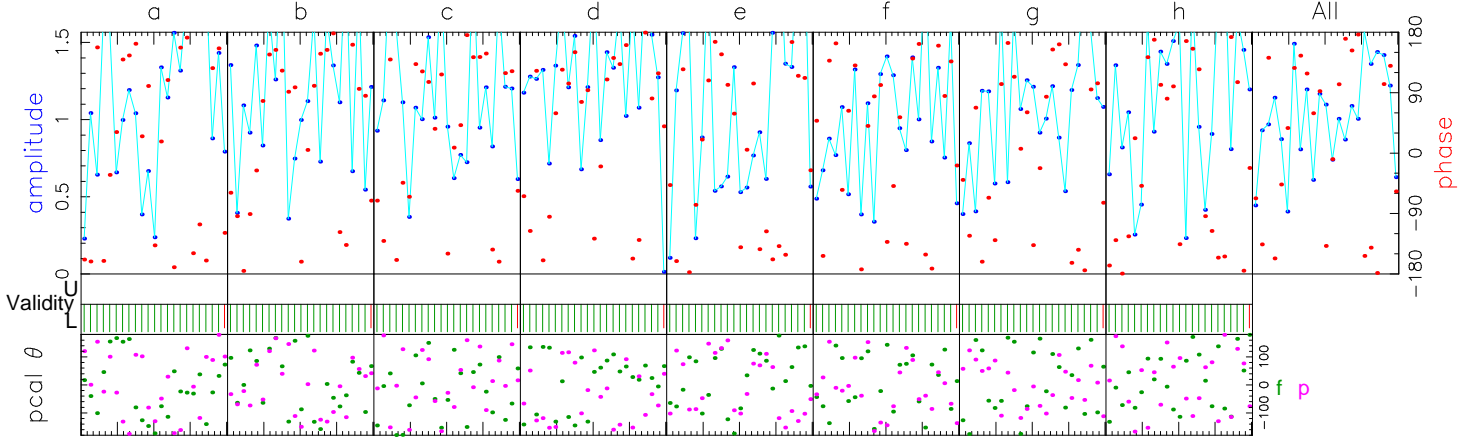
2017:188:152524

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
178.2	156.2	149.8	149.8	154.2	153.2	154.6	172.5	Phase	159.2
0.6	0.4	0.6	0.6	0.6	0.4	0.4	0.6	Ampl.	0.5
137.3	136.3	137.1	137.3	137.6	137.3	137.7	137.5	Sbd box	137.3
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
f -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000		
f W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
p W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	1.46341988939E+03	Apriori delay (usec)	1.46335551978E+03	Resid mbdelay (usec)	1.86961E-03	+/-	1.4E-04		
Sband delay (usec)	1.46342055528E+03	Apriori clock (usec)	-3.1295466E+00	Resid sbdelay (usec)	6.50355E-02	+/-	1.1E-03		
Phase delay (usec)	1.46335552491E+03	Apriori clockrate (us/s)	-6.8734227E-07	Resid phdelay (usec)	5.13497E-06	+/-	2.4E-07		
Delay rate (us/s)	-4.58249615428E-02	Apriori rate (us/s)	-4.58248513516E-02	Resid rate (us/s)	-1.10191E-07	+/-	1.7E-09		
Total phase (deg)	-30.2	Apriori accel (us/s/s)	-7.17358282177E-06	Resid phase (deg)	-200.8	+/-	7.3		

ph/seg (deg) 79.5 17.6 Search (1024X32) 0.514 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

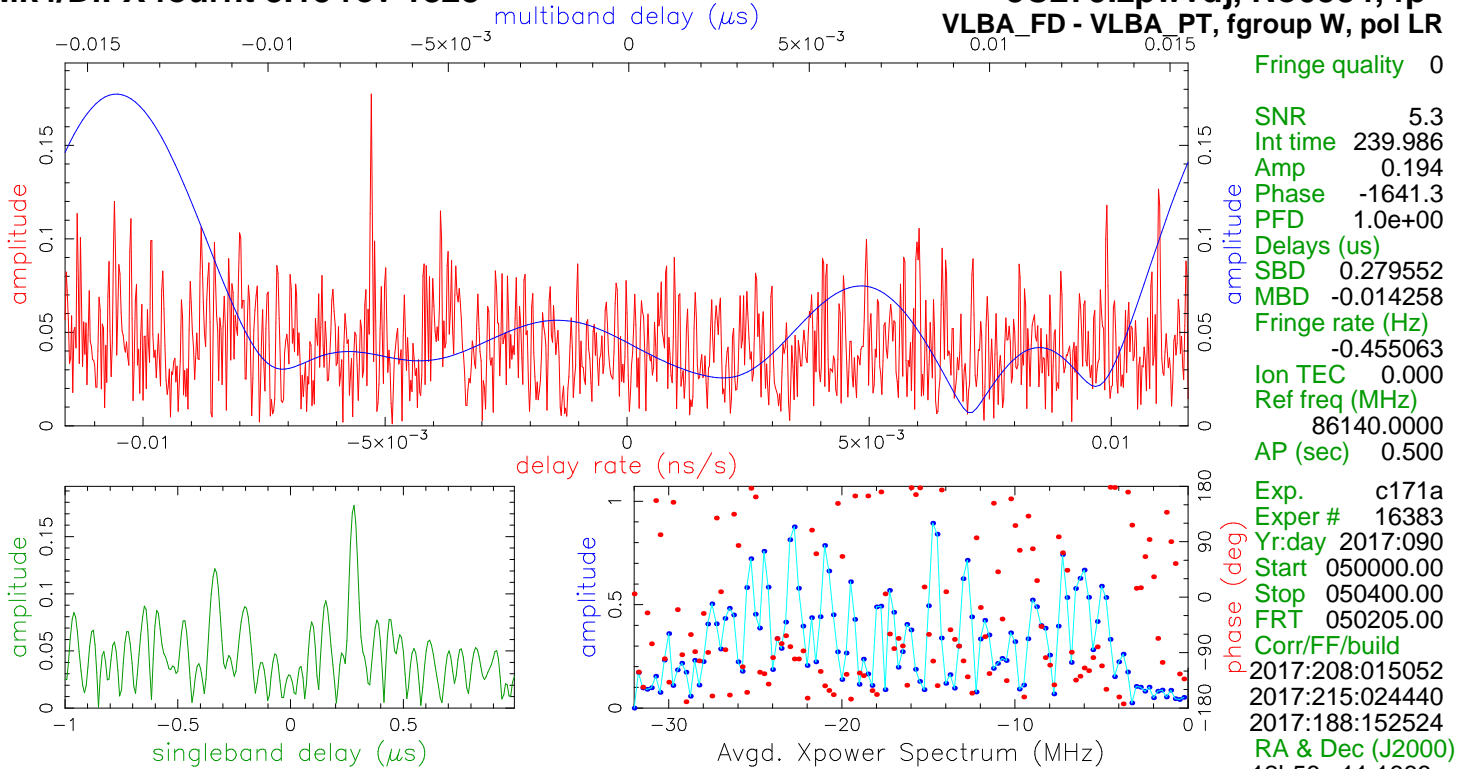
amp/seg (%) 113.4 30.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 11.6 10.4 Inc. seg. avg. 0.977 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 19.4 18.1 Inc. frq. avg. 0.519 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012

f: az 132.0 el 40.8 pa -39.8 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) 258.487 -417.759 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fp..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/fp.W.46.zpwwdj



Fringe quality 0

SNR 5.3

Int time 239.986

Amp 0.194

Phase -1641.3

PFD 1.0e+00

Delays (us)

SBD 0.279552

MBD -0.014258

Fringe rate (Hz)

-0.455063

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

2017:215:024440

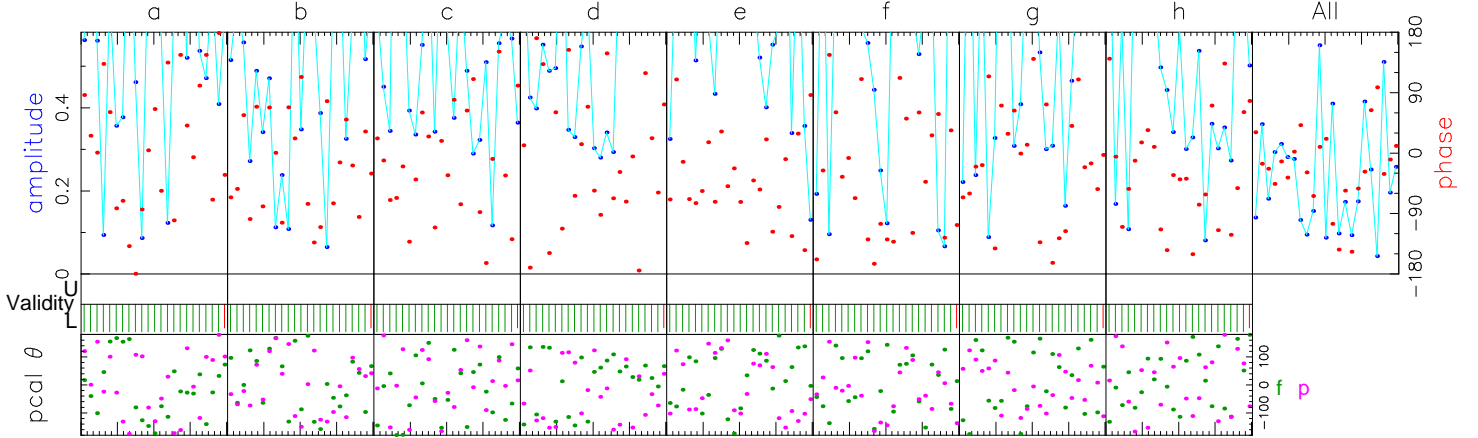
2017:188:152524

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
21.7	-35.6	-25.9	-4.9	-43.5	-11.4	2.7	-19.4	Phase	-21.3
0.1	0.3	0.2	0.1	0.4	0.2	0.2	0.2	Ampl.	0.2
179.6	139.3	241.0	85.5	165.6	211.9	26.4	149.6	Sbd box	164.8
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
f -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
f 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000		
f W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
p W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	1.46362251135E+03	Apriori delay (usec)	1.46335551978E+03	Resid mbdelay (usec)	-1.42584E-02	+/-	4.1E-04		
Sband delay (usec)	1.46363507128E+03	Apriori clock (usec)	-3.1295466E+00	Resid sbdelay (usec)	2.79552E-01	+/-	3.2E-03		
Phase delay (usec)	1.46335551909E+03	Apriori clockrate (us/s)	-6.8734227E-07	Resid phdelay (usec)	-6.88412E-07	+/-	6.9E-07		
Delay rate (us/s)	-4.58301341790E-02	Apriori rate (us/s)	-4.58248513516E-02	Resid rate (us/s)	-5.28283E-06	+/-	5.0E-09		
Total phase (deg)	-1470.8	Apriori accel (us/s/s)	-7.17358282177E-06	Resid phase (deg)	-1641.3	+/-	21.5		

ph/seg (deg) 57.4 51.5 Search (1024X32) 0.174 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

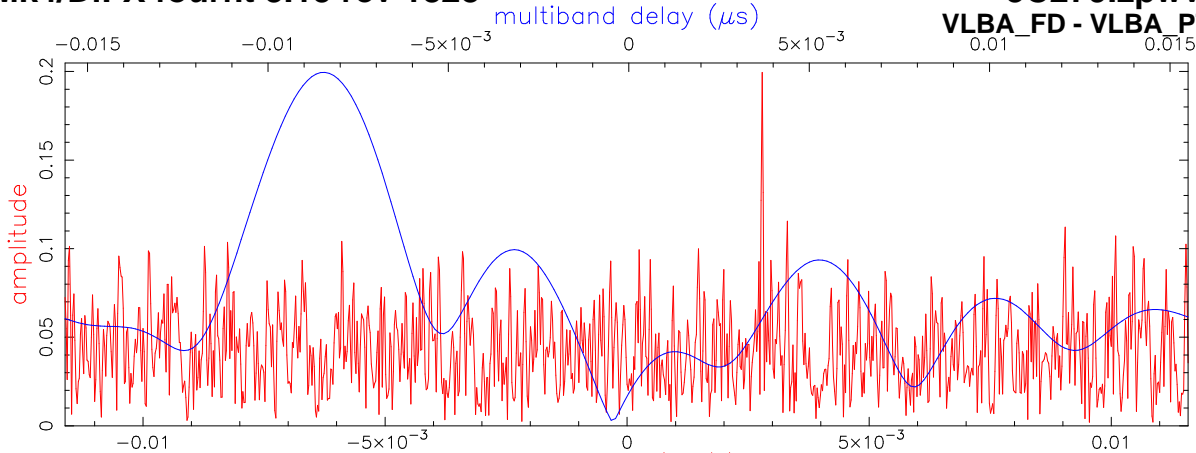
amp/seg (%) 83.8 90.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 24.2 30.4 Inc. seg. avg. 0.185 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

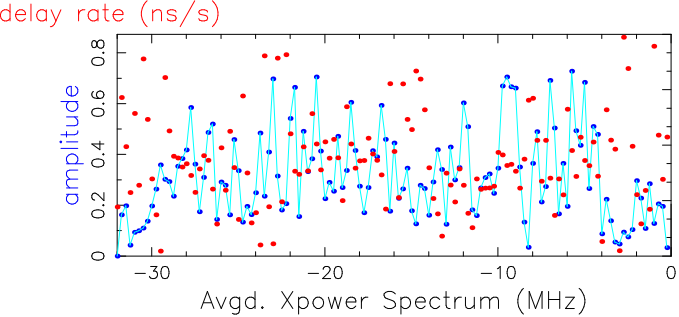
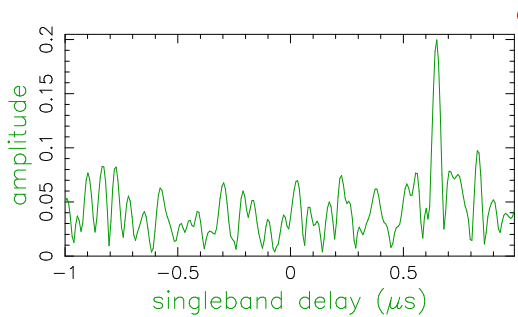
amp/frq (%) 49.3 53.1 Inc. frq. avg. 0.180 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012

f: az 132.0 el 40.8 pa -39.8 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) 258.487 -417.759 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fp..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/fp.W.47.zpwvdj

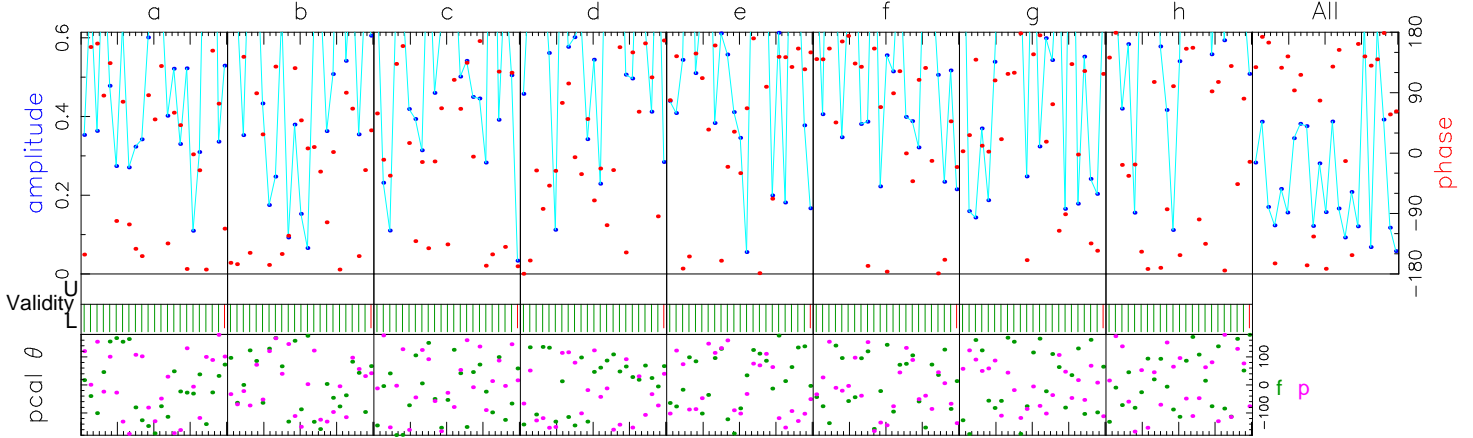


Fringe quality 0  
 SNR 6.0  
 Int time 239.986  
 Amp 0.205  
 Phase -3634.5  
 PFD 1.3e-01  
 Delays (us)  
 SBD 0.647110  
 MBD -0.008452  
 Fringe rate (Hz)  
 0.239935  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500



Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024441  
 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



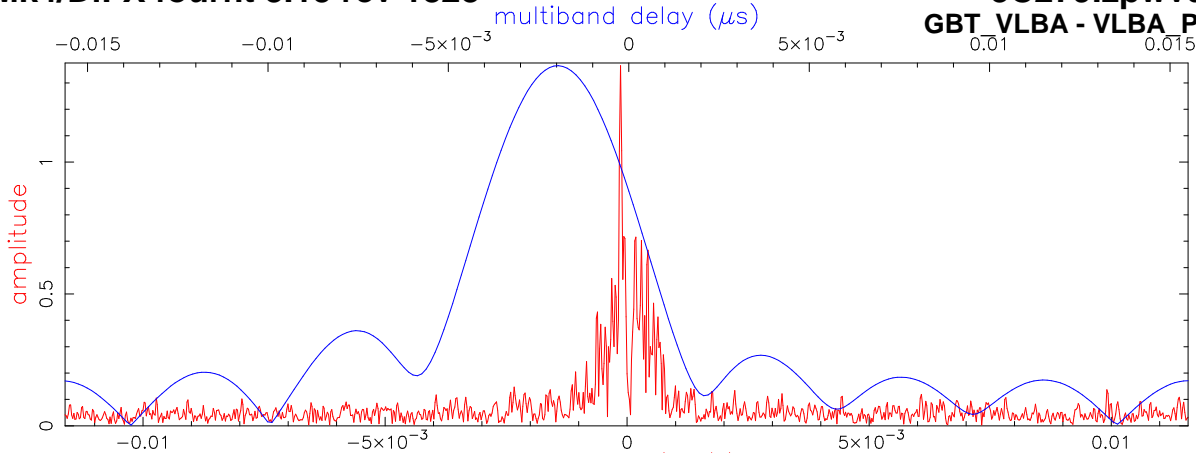
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase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

Group delay (usec)(sbd) 1.46400331738E+03 Apriori delay (usec) 1.46335551978E+03 Resid mbdelay (usec) -8.45240E-03 +/- 3.6E-04  
 Sband delay (usec) 1.46400262928E+03 Apriori clock (usec) -3.1295466E+00 Resid sbdelay (usec) 6.47110E-01 +/- 2.9E-03  
 Phase delay (usec) 1.46335552447E+03 Apriori clockrate (us/s) -6.8734227E-07 Resid phdelay (usec) 4.69131E-06 +/- 6.2E-07  
 Delay rate (us/s) -4.58220659427E-02 Apriori rate (us/s) -4.58248513516E-02 Resid rate (us/s) 2.78541E-06 +/- 4.5E-09  
 Total phase (deg) -3464.0 Apriori accel (us/s/s) -7.17358282177E-06 Resid phase (deg) -3634.5 +/- 19.1

RMS 54.9 Theor. 45.9 Amplitude 0.205 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 54.9 Search (1024X32) 0.195 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 84.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 50.8 Inc. seg. avg. 0.199 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 amp/frq (%) 50.3 Inc. frq. avg. 0.203 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

f: az 132.0 el 40.8 pa -39.8 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) 258.487 -417.759 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fp..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/fp.W.48.zpwvdj

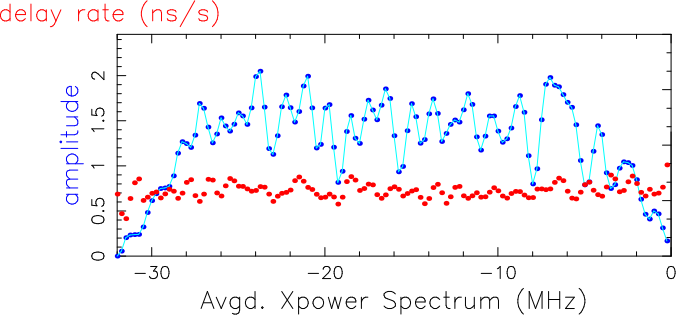
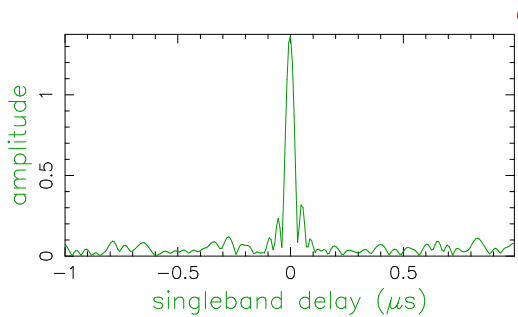




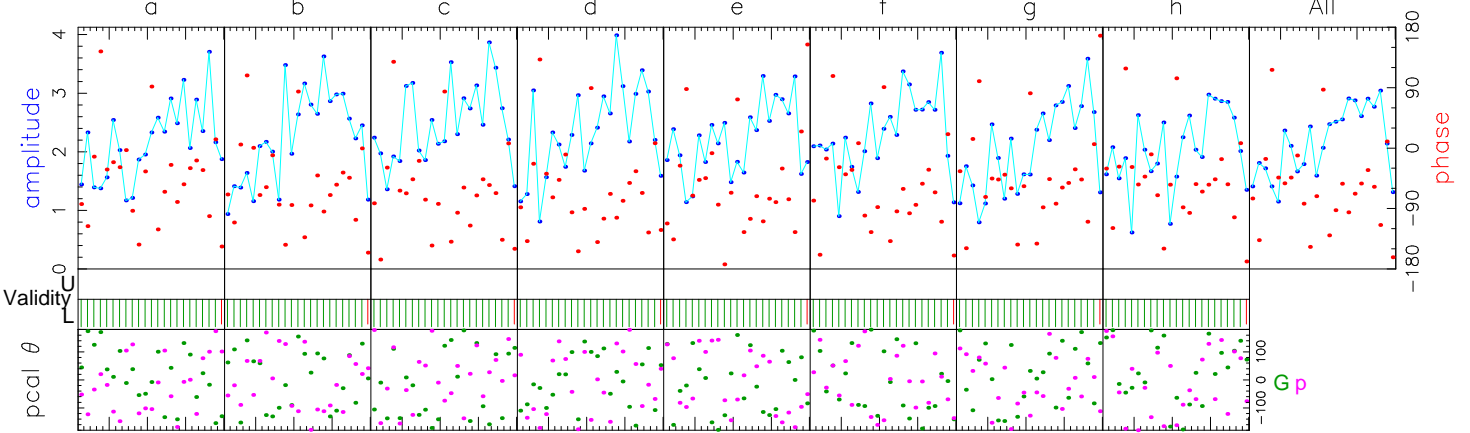
Fringe quality 7

SNR 40.3  
Int time 228.985  
Amp 1.376  
Phase -71.0  
PFD 0.0e+00  
Delays (us)  
SBD -0.002427  
MBD -0.001980  
Fringe rate (Hz)  
-0.011912  
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  
2017:215:024659  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

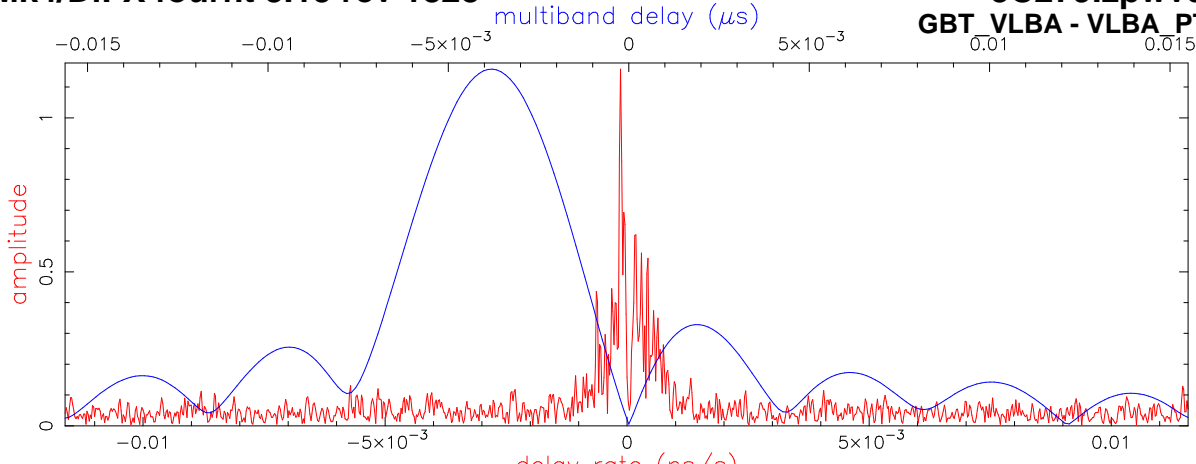


Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-55.4	-69.1	-80.1	-79.5	-81.6	-76.1	-63.0	-60.5	Phase	-71.0
	1.3	1.4	1.6	1.5	1.3	1.3	1.3	1.3	Ampl.	1.4
	128.7	128.6	128.4	128.8	128.7	129.3	128.7	128.6	Sbd box	128.7
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
G	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)	2.44176606751E+03		Apriori delay (usec)		2.44176804717E+03		Resid mbdelay (usec)		-1.97966E-03	+/- 5.4E-05
Sband delay (usec)	2.44176562017E+03		Apriori clock (usec)		-1.3638536E+01		Resid sbdelay (usec)		-2.42700E-03	+/- 4.3E-04
Phase delay (usec)	2.44176804488E+03		Apriori clockrate (us/s)		-3.4534699E-08		Resid phdelay (usec)		-2.29090E-06	+/- 9.2E-08
Delay rate (us/s)	-5.81258953951E-01		Apriori rate (us/s)		-5.81258815663E-01		Resid rate (us/s)		-1.38288E-07	+/- 6.9E-10
Total phase (deg)	139.1		Apriori accel (us/s/s)		-1.37263127482E-05		Resid phase (deg)		-71.0	+/- 2.8

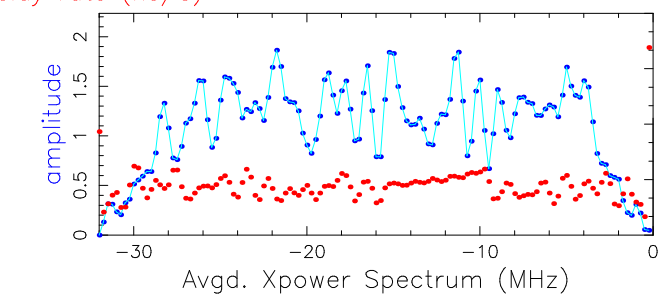
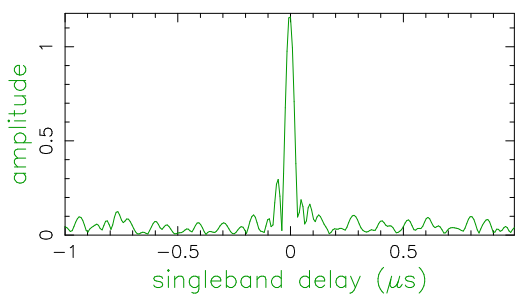
ph/seg (deg) 64.8 6.8 Theor. Amplitude 1.376 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 70.3 11.9 Search (1024X32) 1.357 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 10.9 4.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 7.2 7.0 Inc. seg. avg. 2.146 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 G: az 165.5 el 44.7 pa -11.0 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) 3336.773 623.010 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/Gp..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/Gp.W.177.zpwwdj



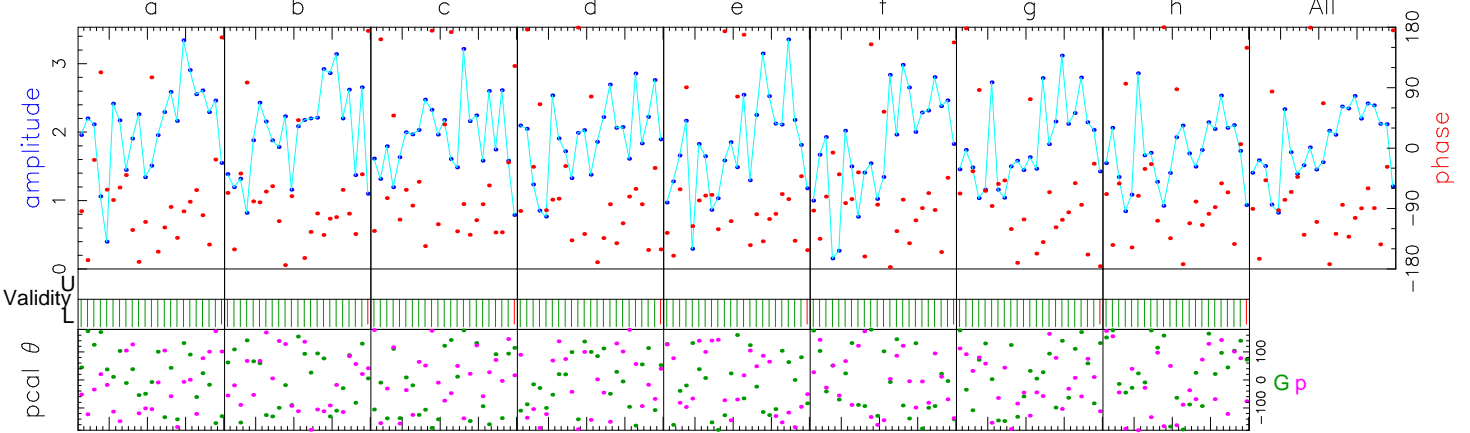
Fringe quality 7

SNR 34.5  
Int time 228.985  
Amp 1.178  
Phase -102.2  
PFD 0.0e+00  
Delays (us)  
SBD -0.003677  
MBD -0.003811  
Fringe rate (Hz)  
-0.011894  
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  
2017:215:024700  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

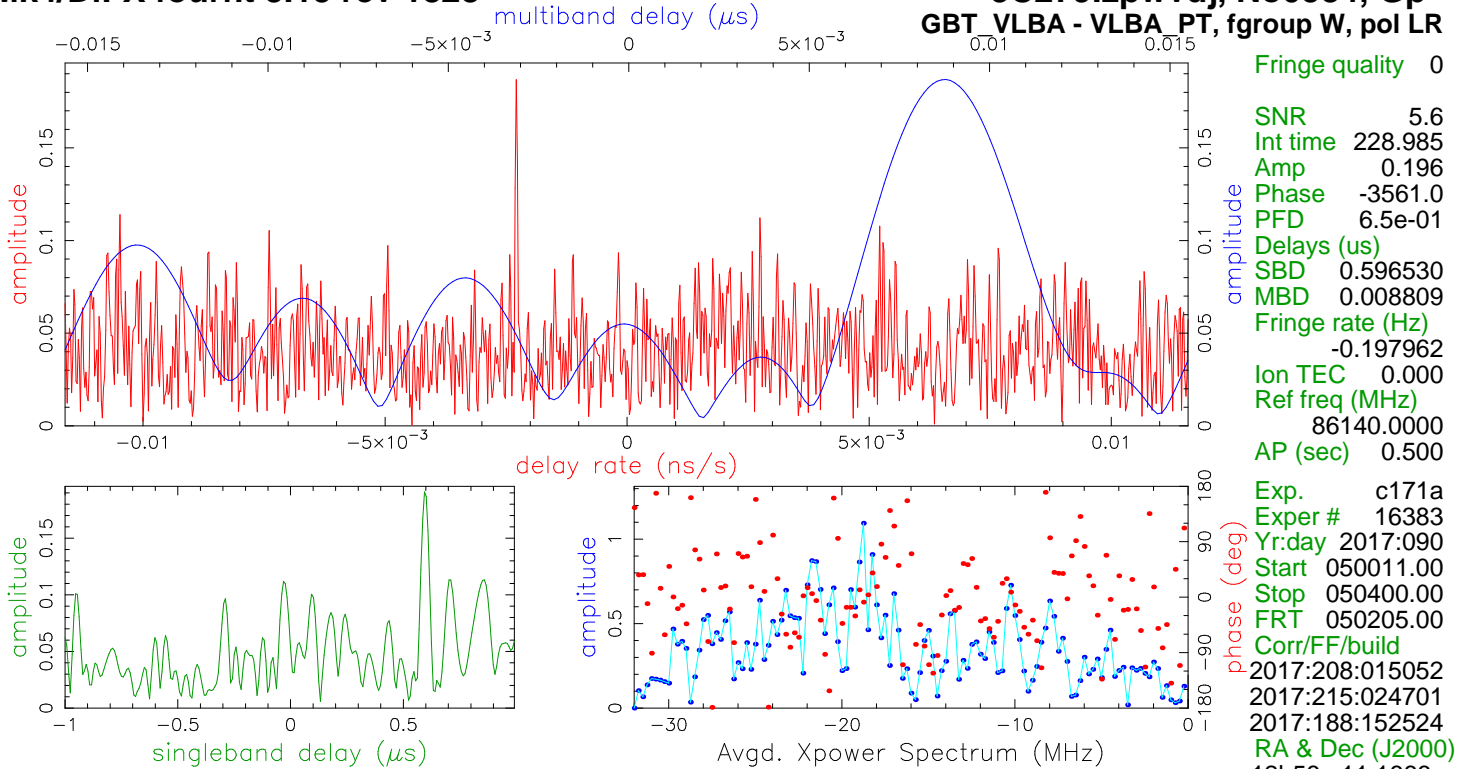


Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec

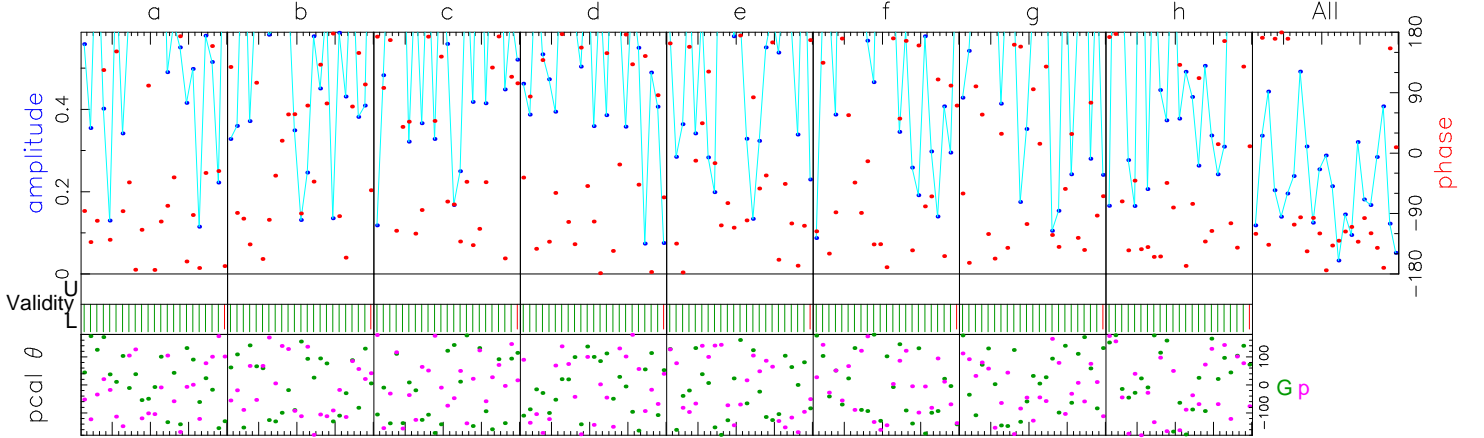


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-101.3	-96.8	-103.5	-104.1	-111.2	-107.2	-100.3	-93.4	Phase	-102.2
	1.3	1.4	1.2	1.2	1.1	1.2	1.1	0.9	Ampl.	1.2
	128.4	128.4	128.7	128.4	128.2	128.5	128.6	129.0	Sbd box	128.5
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
p	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.44176423632E+03		Apriori delay (usec)		2.44176804717E+03		Resid mbdelay (usec)		-3.81085E-03	+/- 6.3E-05
Sband delay (usec)	2.44176437017E+03		Apriori clock (usec)		-1.3638536E+01		Resid sbdelay (usec)		-3.67700E-03	+/- 5.0E-04
Phase delay (usec)	2.44176804388E+03		Apriori clockrate (us/s)		-3.4534699E-08		Resid phdelay (usec)		-3.29675E-06	+/- 1.1E-07
Delay rate (us/s)	-5.81258953735E-01		Apriori rate (us/s)		-5.81258815663E-01		Resid rate (us/s)		-1.38072E-07	+/- 8.1E-10
Total phase (deg)	107.9		Apriori accel (us/s/s)		-1.37263127482E-05		Resid phase (deg)		-102.2	+/- 3.3

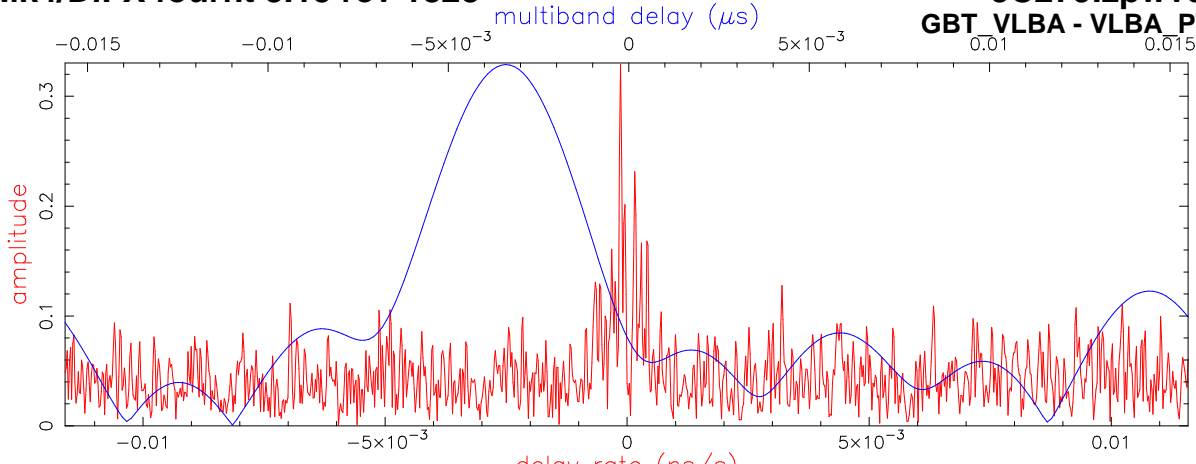
ph/seg (deg) 66.2 8.0 Search (1024X32) 1.150 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 67.9 13.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 6.1 4.7 Inc. seg. avg. 1.798 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 10.3 8.2 Inc. frq. avg. 1.159 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 G: az 165.5 el 44.7 pa -11.0 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) 3336.773 623.010 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/Gp..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/Gp.W.178.zpwwdj



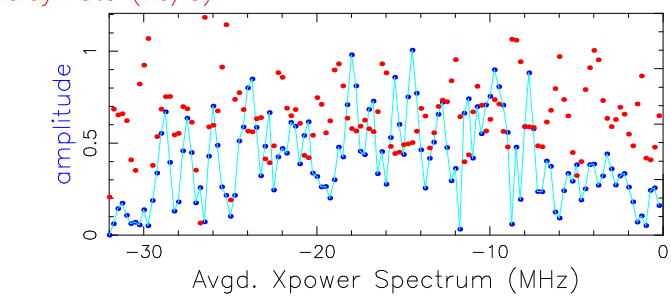
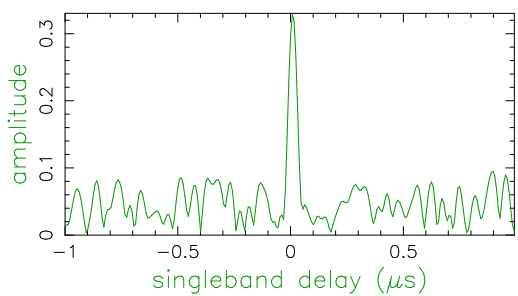
Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
-129.7	-17.0	-169.4	-144.8	-122.7	-158.3	-149.9	-136.0	Phase	-141.0	
0.3	0.0	0.2	0.2	0.2	0.2	0.1	0.3	Ampl.	0.2	
230.4	223.4	147.4	33.6	151.2	59.9	124.8	206.5	Sbd box	205.4	
U/L 0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used		
G -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
p -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
G:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
G:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC		
G 1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
p 1000	1000	1000	1000	1000	1000	1000	1000			
G 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)		2.44237060574E+03	Apriori delay (usec)		2.44176804717E+03	Resid mbdelay (usec)		8.80857E-03	+/- 3.9E-04	
Sband delay (usec)		2.44236457717E+03	Apriori clock (usec)		-1.3638536E+01	Resid sbdelay (usec)		5.96530E-01	+/- 3.1E-03	
Phase delay (usec)		2.44176804263E+03	Apriori clockrate (us/s)		-3.4534699E-08	Resid phdelay (usec)		-4.54714E-06	+/- 6.6E-07	
Delay rate (us/s)		-5.81261113801E-01	Apriori rate (us/s)		-5.81258815663E-01	Resid rate (us/s)		-2.29814E-06	+/- 5.0E-09	
Total phase (deg)		-3350.9	Apriori accel (us/s/s)		-1.37263127482E-05	Resid phase (deg)		-3561.0	+/- 20.3	
RMS	Theor.	Amplitude	0.196 +/- 0.035		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	44.4	48.7	Search (1024X32)		0.180	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
amp/seg (%)	63.9	85.1	Interp.		0.000	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016 0.016
ph/frq (deg)	53.3	28.7	Inc. seg. avg.		0.168	Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012 0.012	
amp/frq (%)	44.8	50.2	Inc. frq. avg.		0.179	Data rate(Mb/s): 1024		nlags: 128 t_cohere infinite	ion window (TEC)	0.00 0.00

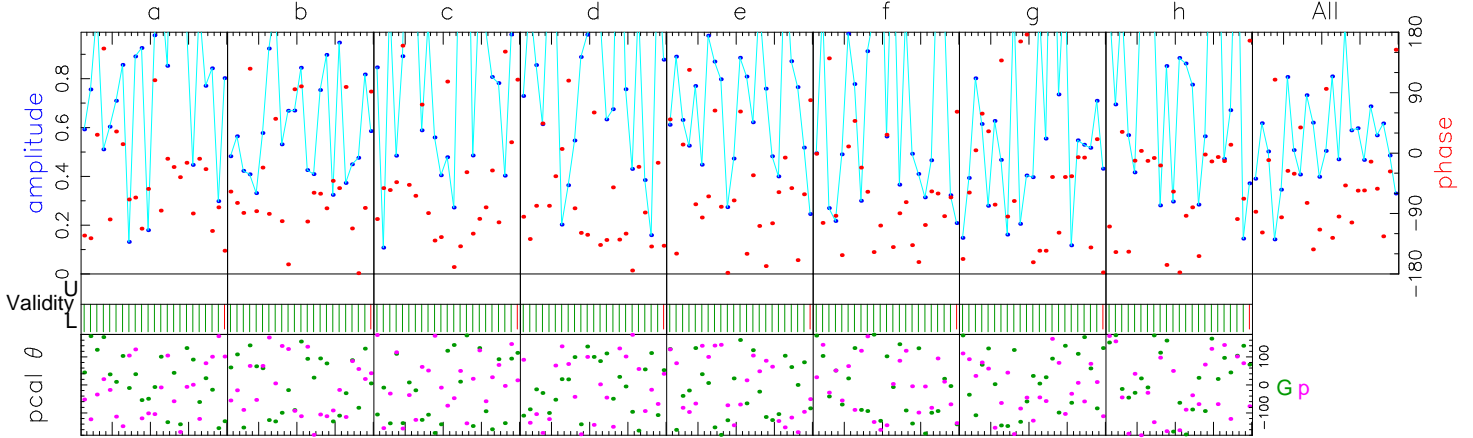


Fringe quality 9  
 SNR 9.7  
 Int time 228.985  
 Amp 0.330  
 Phase -70.1  
 PFD 4.4e-14  
 Delays (us)  
 SBD 0.009794  
 MBD -0.003428  
 Fringe rate (Hz)  
 -0.011679  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500



Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050011.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024702  
 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

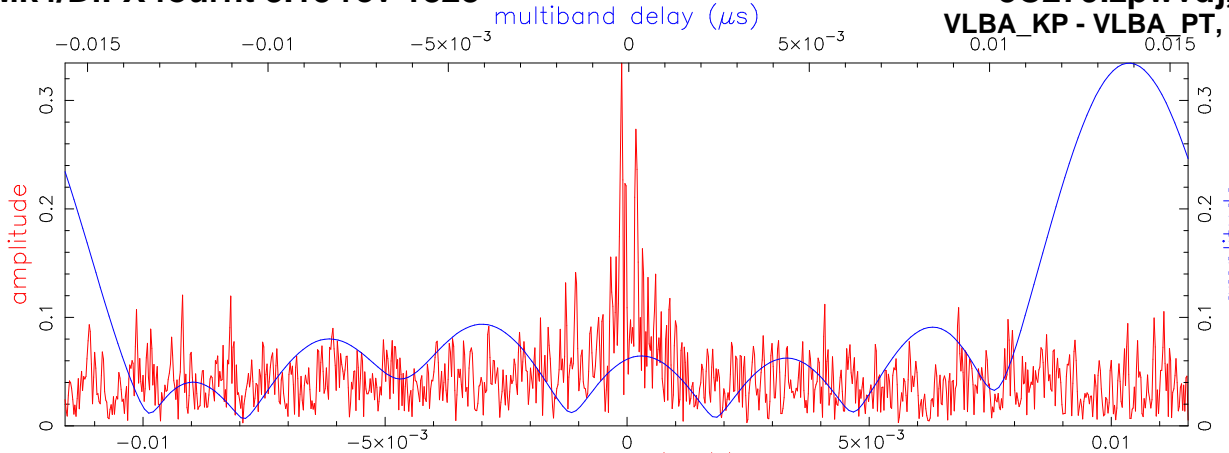


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-46.3	-73.3	-75.9	-91.2	-73.4	-88.1	-63.3	-44.5	Phase	-70.1
	0.4	0.2	0.4	0.5	0.2	0.4	0.2	0.4	Ampl.	0.3
	130.6	240.9	130.7	129.2	57.1	130.6	132.2	130.2	Sbd box	130.3
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
p	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

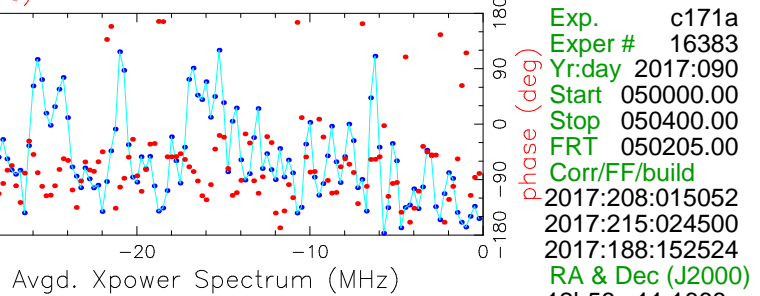
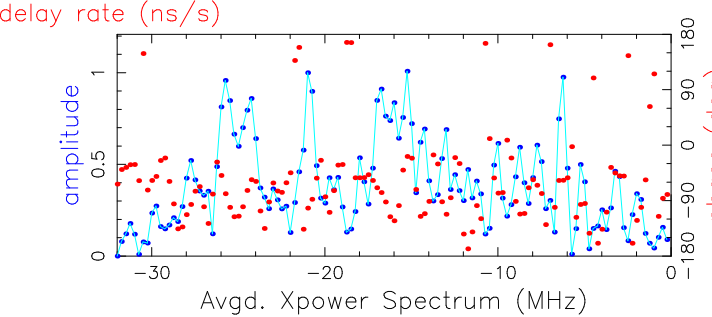
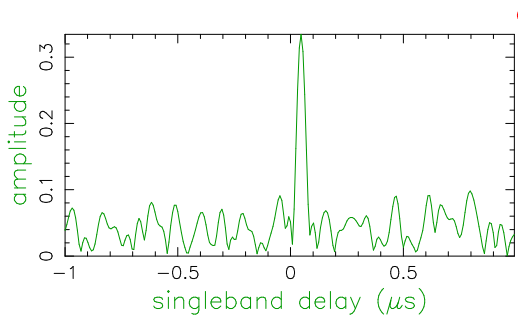
Group delay (usec)(sbd) 2.44176461926E+03 Apriori delay (usec) 2.44176804717E+03 Resid mbdelay (usec) -3.42791E-03 +/- 2.2E-04  
 Sband delay (usec) 2.44177784067E+03 Apriori clock (usec) -1.3638536E+01 Resid sbdelay (usec) 9.79350E-03 +/- 1.8E-03  
 Phase delay (usec) 2.44176804492E+03 Apriori clockrate (us/s) -3.4534699E-08 Resid phdelay (usec) -2.25903E-06 +/- 3.8E-07  
 Delay rate (us/s) -5.81258951243E-01 Apriori rate (us/s) -5.81258815663E-01 Resid rate (us/s) -1.35580E-07 +/- 2.9E-09  
 Total phase (deg) 140.0 Apriori accel (us/s/s) -1.37263127482E-05 Resid phase (deg) -70.1 +/- 11.9

RMS Theor. Amplitude 0.330 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 72.3 28.4 Search (1024X32) 0.321 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 86.2 49.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 18.7 16.8 Inc. seg. avg. 0.489 Sample rate(MSamp/s): 64 dr window (ns/s) -0.012 0.012  
 amp/frq (%) 28.4 29.3 Inc. frq. avg. 0.331 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

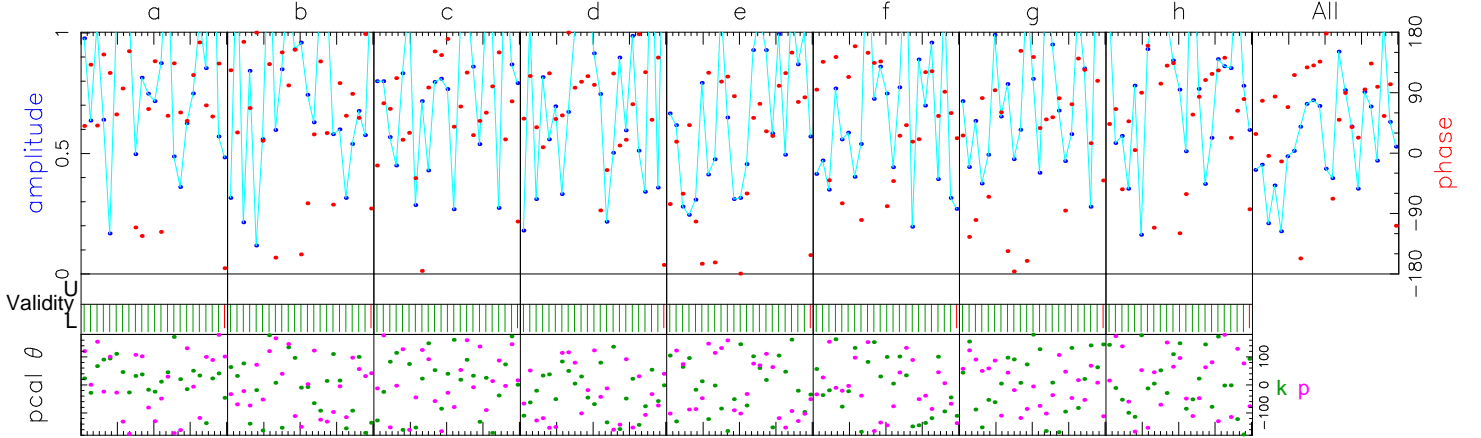
G: az 165.5 el 44.7 pa -11.0 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) 3336.773 623.010 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/Gp..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/Gp.W.180.zpwwdj



Fringe quality 9  
 SNR 10.0  
 Int time 239.988  
 Amp 0.334  
 Phase -87.9  
 PFD 1.3e-15  
 Delays (us)  
 SBD 0.046361  
 MBD 0.013860  
 Fringe rate (Hz)  
 -0.010705  
 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  
 2017:215:024500  
 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

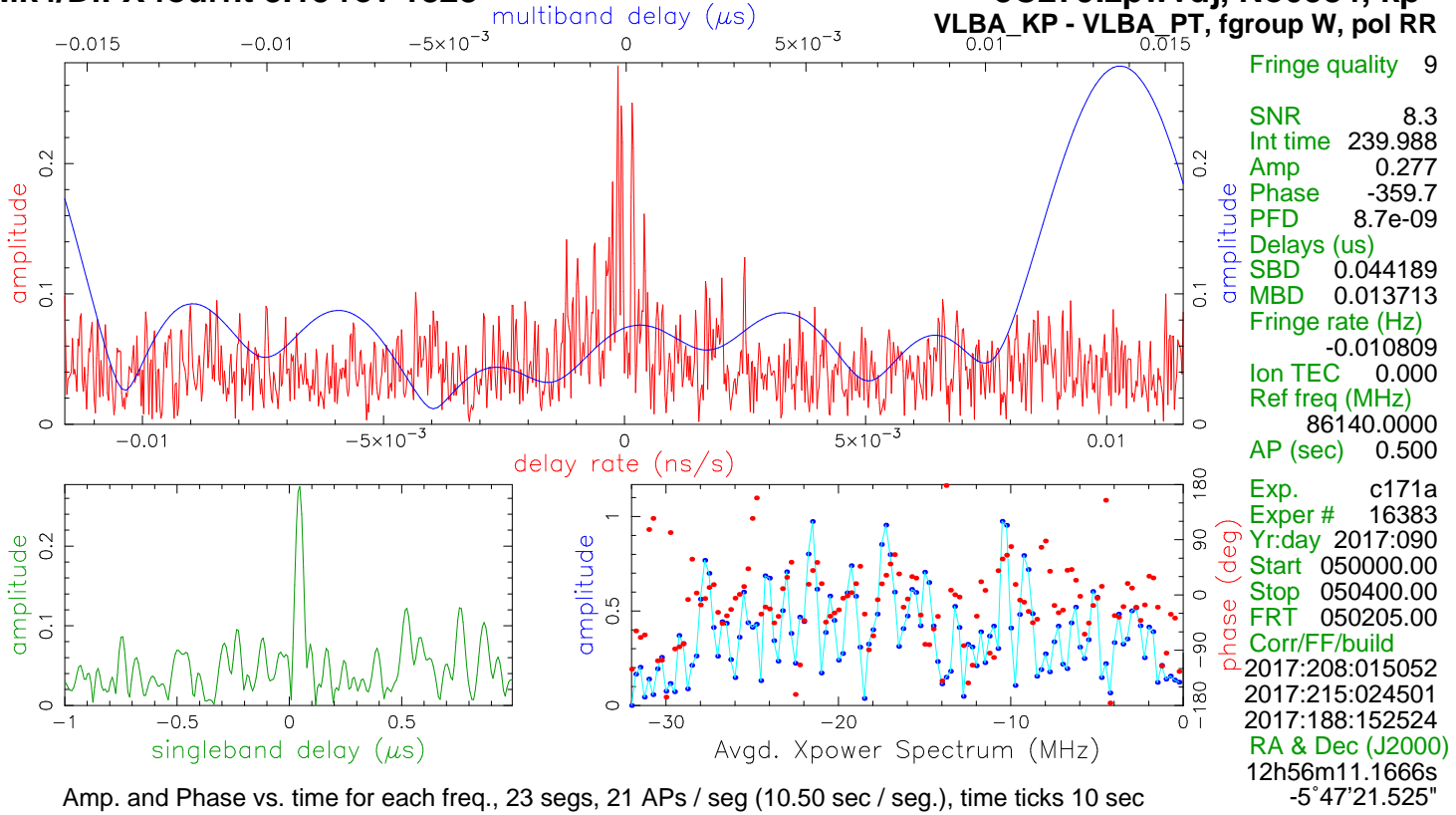


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	96.1	104.5	73.4	92.2	93.1	96.1	103.5	87.6	Ampl.	92.1
k	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.4	Ampl.	0.3
p	134.7	124.7	133.8	135.2	136.2	135.6	133.1	135.0	Sbd box	134.9
k	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
p	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

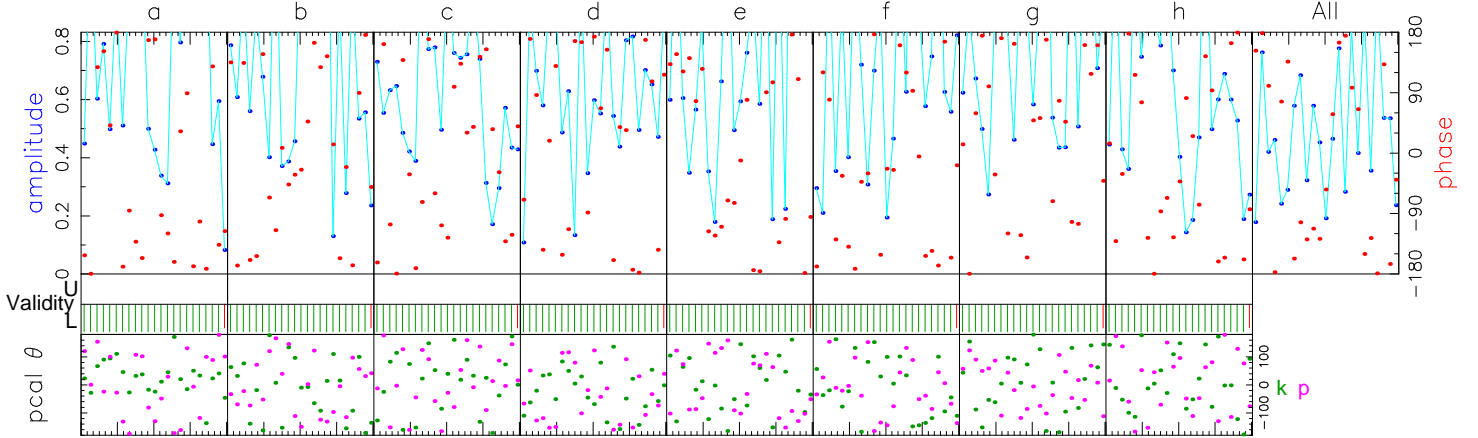
Group delay (usec)(sbd)	-2.62939072758E+02	Apriori delay (usec)	-2.62984182928E+02	Resid mbdelay (usec)	1.38602E-02	+/-	2.2E-04
Sband delay (usec)	-2.62937821428E+02	Apriori clock (usec)	-5.4406080E+00	Resid sbdelay (usec)	4.63615E-02	+/-	1.7E-03
Phase delay (usec)	-2.62984179959E+02	Apriori clockrate (us/s)	-2.6855387E-07	Resid phdelay (usec)	2.96856E-06	+/-	3.7E-07
Delay rate (us/s)	8.25202783827E-02	Apriori rate (us/s)	8.25204026528E-02	Resid rate (us/s)	-1.24270E-07	+/-	2.7E-09
Total phase (deg)	-274.2	Apriori accel (us/s/s)	1.76594810423E-06	Resid phase (deg)	-87.9	+/-	11.4

ph/seg (deg) 69.4 27.4 Search (1024X32) 0.310 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 92.8 47.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 10.7 16.2 Inc. seg. avg. 0.507 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 21.5 28.2 Inc. frq. avg. 0.326 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 k: az 125.6 el 34.9 pa -43.7 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) -473.952 -316.707 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kp.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/kp.W.65.zpvdj





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

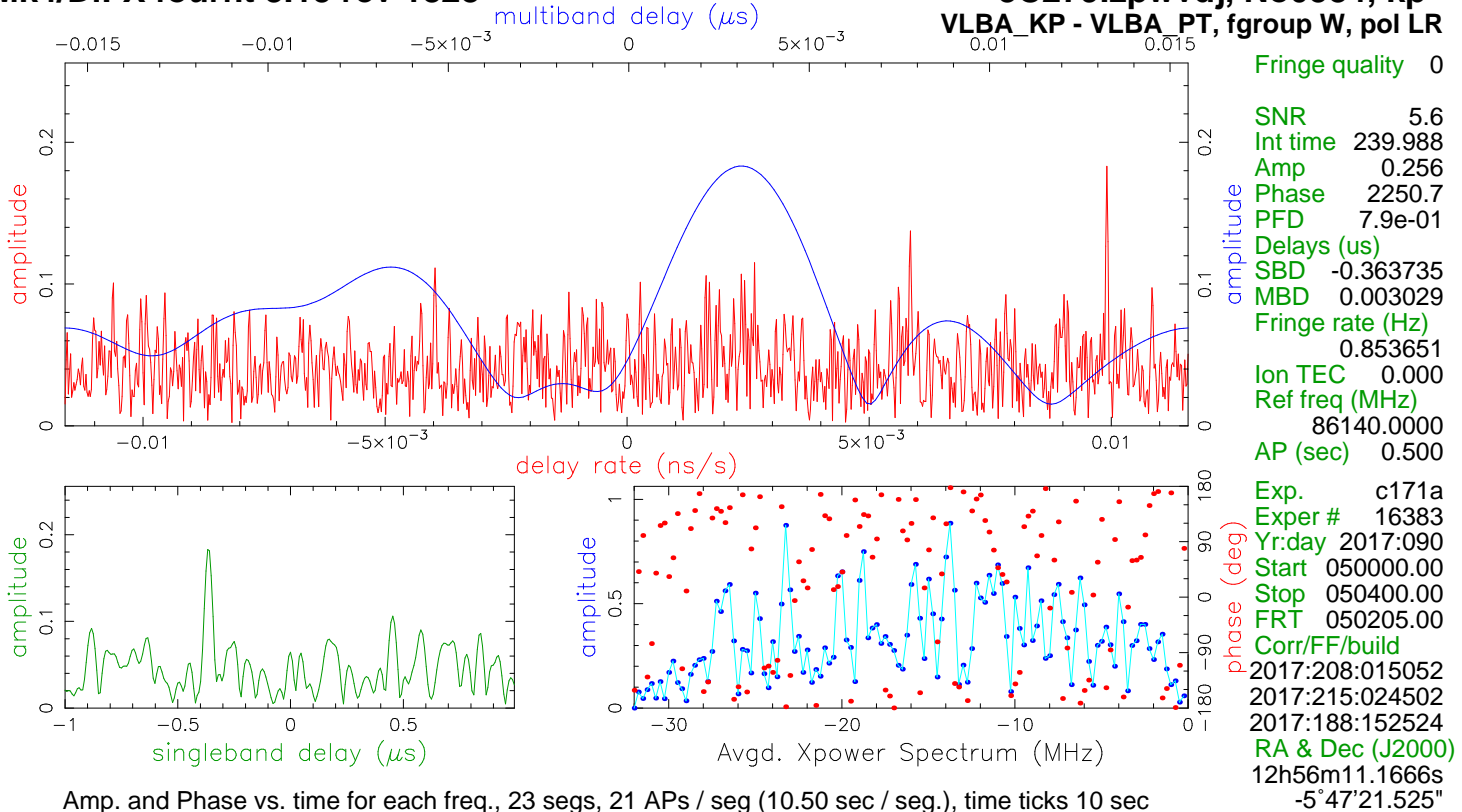


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-169.3	170.5	-156.1	153.7	171.2	-179.9	-179.3	-157.9	Phase	-179.7
	0.5	0.3	0.2	0.3	0.3	0.2	0.2	0.2	Ampl.	0.3
	135.0	225.6	99.4	170.5	133.6	208.0	98.5	127.6	Sbd box	134.7
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
p	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(sbd)		-2.62939219712E+02		Apriori delay (usec)		-2.62984182928E+02		Resid mbdelay (usec)	1.37132E-02	+/- 2.6E-04
Sband delay (usec)		-2.62939993928E+02		Apriori clock (usec)		-5.4406080E+00		Resid sbdelay (usec)	4.41890E-02	+/- 2.1E-03
Phase delay (usec)		-2.62984188722E+02		Apriori clockrate (us/s)		-2.6855387E-07		Resid phdelay (usec)	-5.79462E-06	+/- 4.4E-07
Delay rate (us/s)		8.25202771768E-02		Apriori rate (us/s)		8.25204026528E-02		Resid rate (us/s)	-1.25476E-07	+/- 3.2E-09
Total phase (deg)			-186.0	Apriori accel (us/s/s)		1.76594810423E-06		Resid phase (deg)	-359.7	+/- 13.8

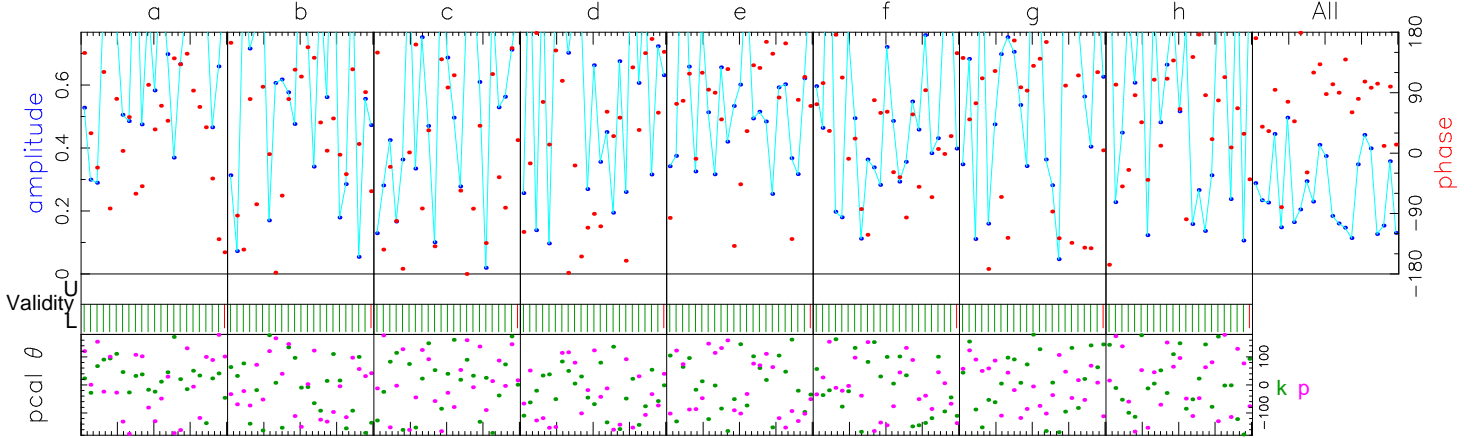
	RMS	Theor.	Amplitude	0.277 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	69.5	33.1	Search (1024X32)	0.252	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
amp/seg (%)	115.1	57.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
ph/frq (deg)	18.4	19.5	Inc. seg. avg.	0.430	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
amp/frq (%)	34.2	34.0	Inc. frq. avg.	0.269	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			

k: az 125.6 el 34.9 pa -43.7      p: az 130.1 el 35.7 pa -39.2      u,v (fr/asec) -473.952 -316.707      simultaneous interpolator

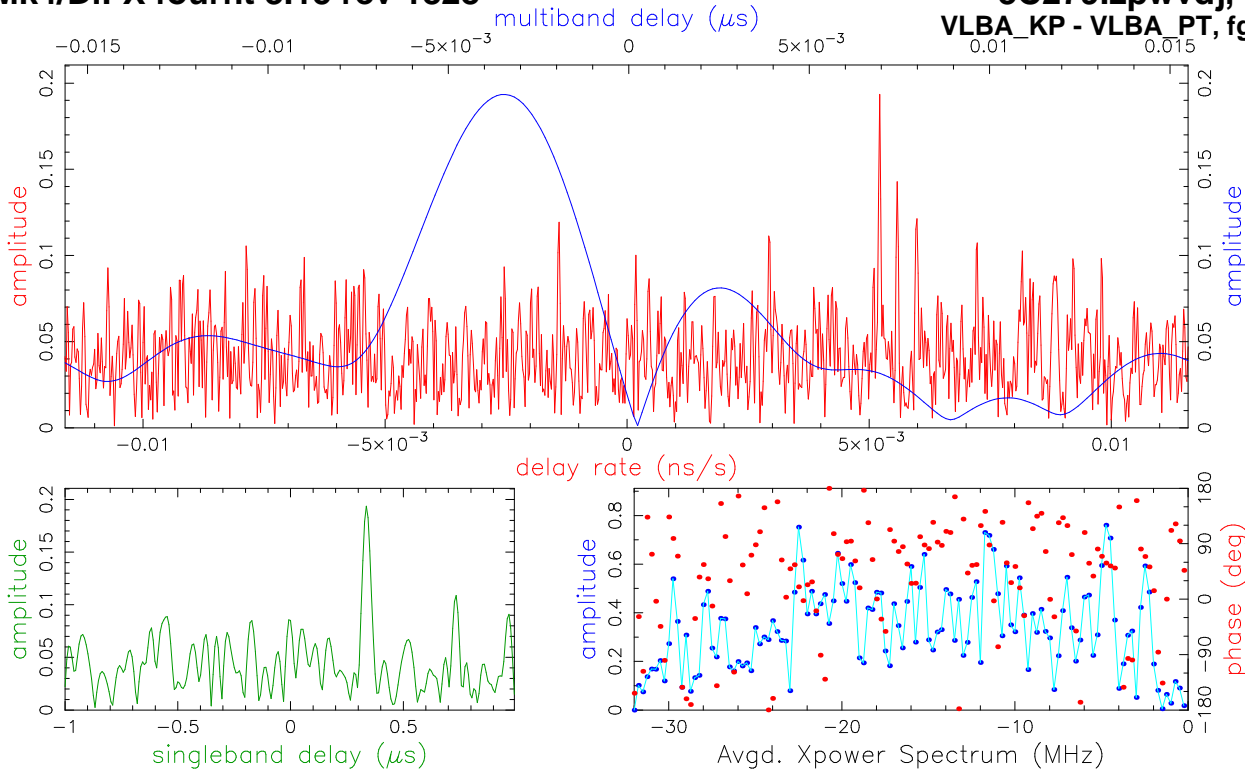
Control file: ../cf\_1234    Input file: /Exps/c171a/gmva/1234/No0584/kp.zpwvdj    Output file: /Exps/c171a/gmva/1234/No0584/kp.W.66.zpwvdj



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

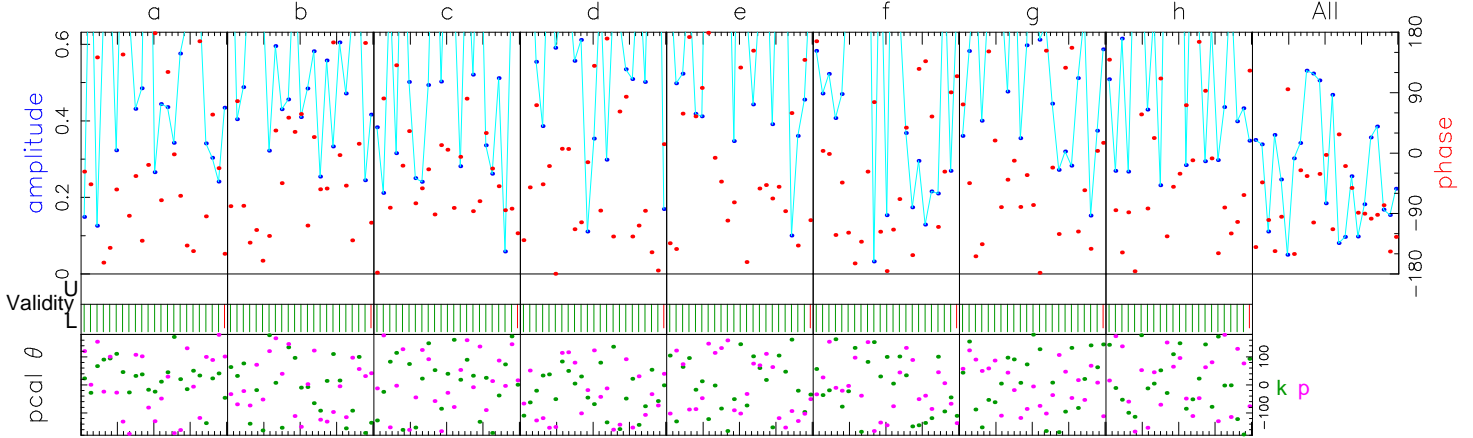


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
p	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
Group delay (usec)(sbd)	-2.63356153659E+02		Apriori delay (usec)	-2.62984182928E+02		Resid mbdelay (usec)	3.02927E-03		+/-	3.9E-04
Sband delay (usec)	-2.63347918428E+02		Apriori clock (usec)	-5.4406080E+00		Resid sbdelay (usec)	-3.63735E-01		+/-	3.1E-03
Phase delay (usec)	-2.62984180003E+02		Apriori clockrate (us/s)	-2.6855387E-07		Resid phdelay (usec)	2.92462E-06		+/-	6.6E-07
Delay rate (us/s)	8.25303126916E-02		Apriori rate (us/s)	8.25204026528E-02		Resid rate (us/s)	9.91004E-06		+/-	4.8E-09
Total phase (deg)		2064.4	Apriori accel (us/s/s)	1.76594810423E-06		Resid phase (deg)	2250.7		+/-	20.6
ph/seg (deg)	60.7	49.4	Search (1024X32)	0.180		Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		sb window (us)	-1.000 1.000
amp/seg (%)	76.4	86.1	Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled		mb window (us)	-0.016 0.016
ph/frq (deg)	36.5	29.1	Inc. seg. avg.	0.267		Bits/sample: 2x2	Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012 0.012
amp/frq (%)	50.8	50.8	Inc. frq. avg.	0.268		Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite		ion window (TEC)	0.00 0.00



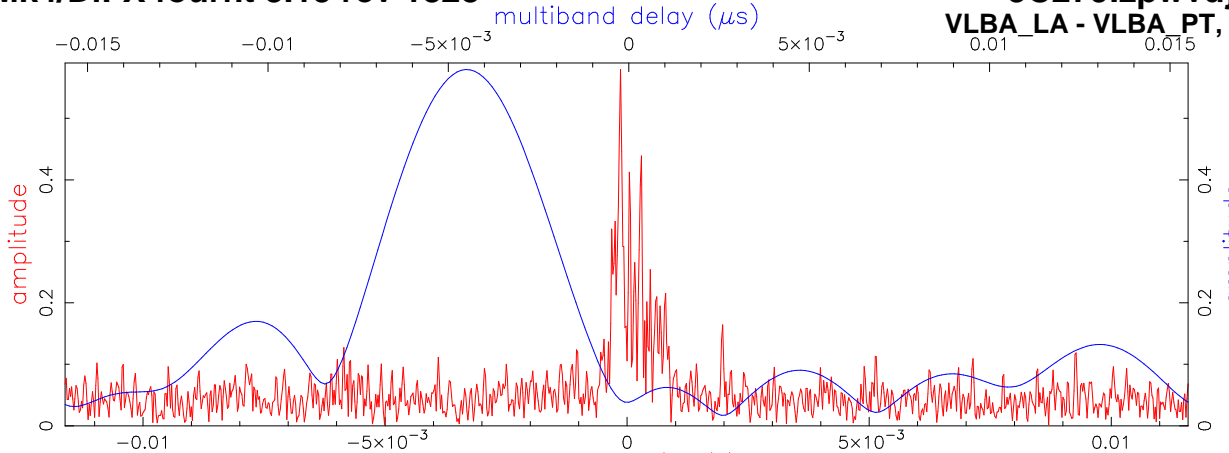
Fringe quality 0  
 SNR 5.8  
 Int time 239.988  
 Amp 0.211  
 Phase -2063.6  
 PFD 3.5e-01  
 Delays (us)  
 SBD 0.336464  
 MBD -0.003454  
 Fringe rate (Hz) 0.448923  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024503  
 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

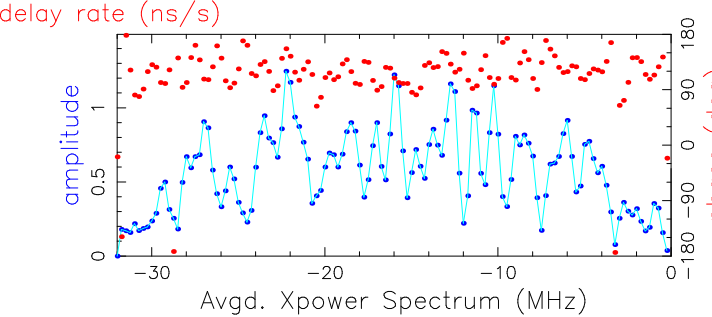
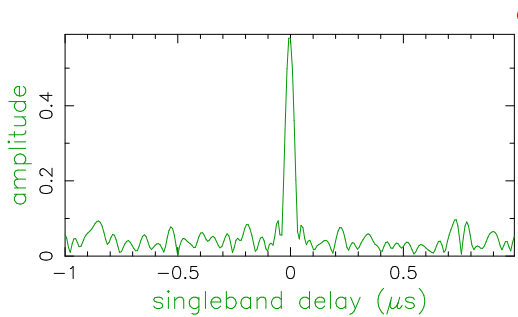


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-105.4	-63.3	-51.1	-104.9	-116.0	-92.8	-71.7	-72.2	Phase	-83.6
0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
201.4	75.0	171.2	86.7	190.5	64.8	254.3	53.0	Sbd box	172.1
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
k -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
kp 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
kp 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
k 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000		
k W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
p W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
Group delay (usec)(sbd)		-2.62643887109E+02	Apriori delay (usec)		-2.62984182928E+02	Resid mbdelay (usec)		-3.45418E-03	+/- 3.7E-04
Sband delay (usec)		-2.62647719428E+02	Apriori clock (usec)		-5.4406080E+00	Resid sbdelay (usec)		3.36464E-01	+/- 3.0E-03
Phase delay (usec)		-2.62984185623E+02	Apriori clockrate (us/s)		-2.6855387E-07	Resid phdelay (usec)		-2.69512E-06	+/- 6.4E-07
Delay rate (us/s)		8.25256142037E-02	Apriori rate (us/s)		8.25204026528E-02	Resid rate (us/s)		5.21155E-06	+/- 4.6E-09
Total phase (deg)		-2249.8	Apriori accel (us/s/s)		1.76594810423E-06	Resid phase (deg)		-2063.6	+/- 19.8

ph/seg (deg) 61.0 47.4 Search (1024X32) 0.188 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 86.2 82.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 25.2 28.0 Inc. seg. avg. 0.223 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 23.7 48.8 Inc. frq. avg. 0.204 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 k: az 125.6 el 34.9 pa -43.7 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) -473.952 -316.707 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kp.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/kp.W.68.zpvdj

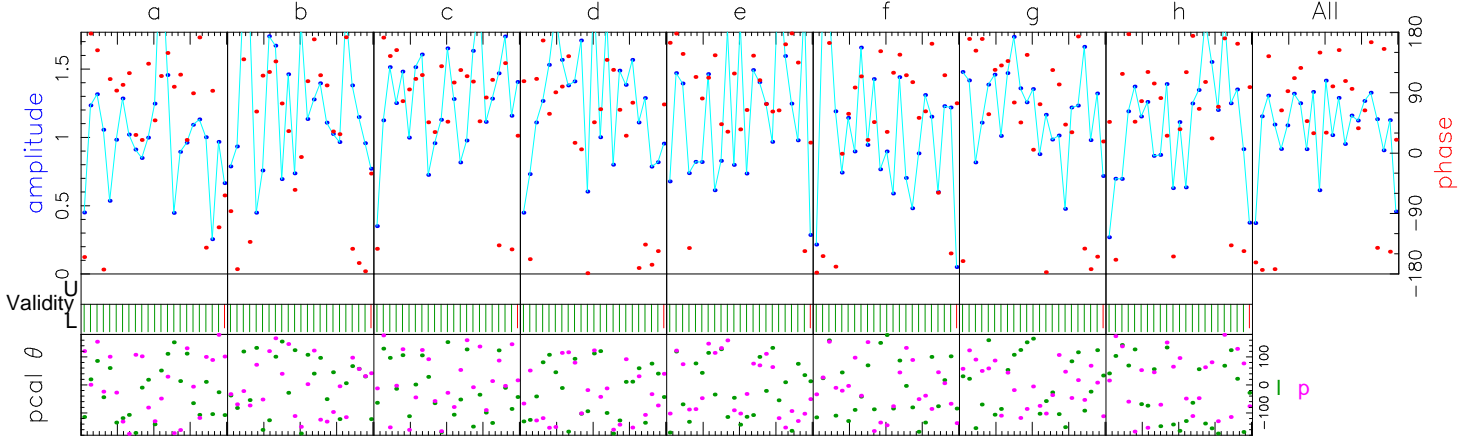


Fringe quality 9  
SNR 17.7  
Int time 239.988  
Amp 0.590  
Phase 116.3  
PFD 0.0e+00  
Delays (us)  
SBD -0.003938  
MBD -0.004480  
Fringe rate (Hz)  
-0.011383  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500

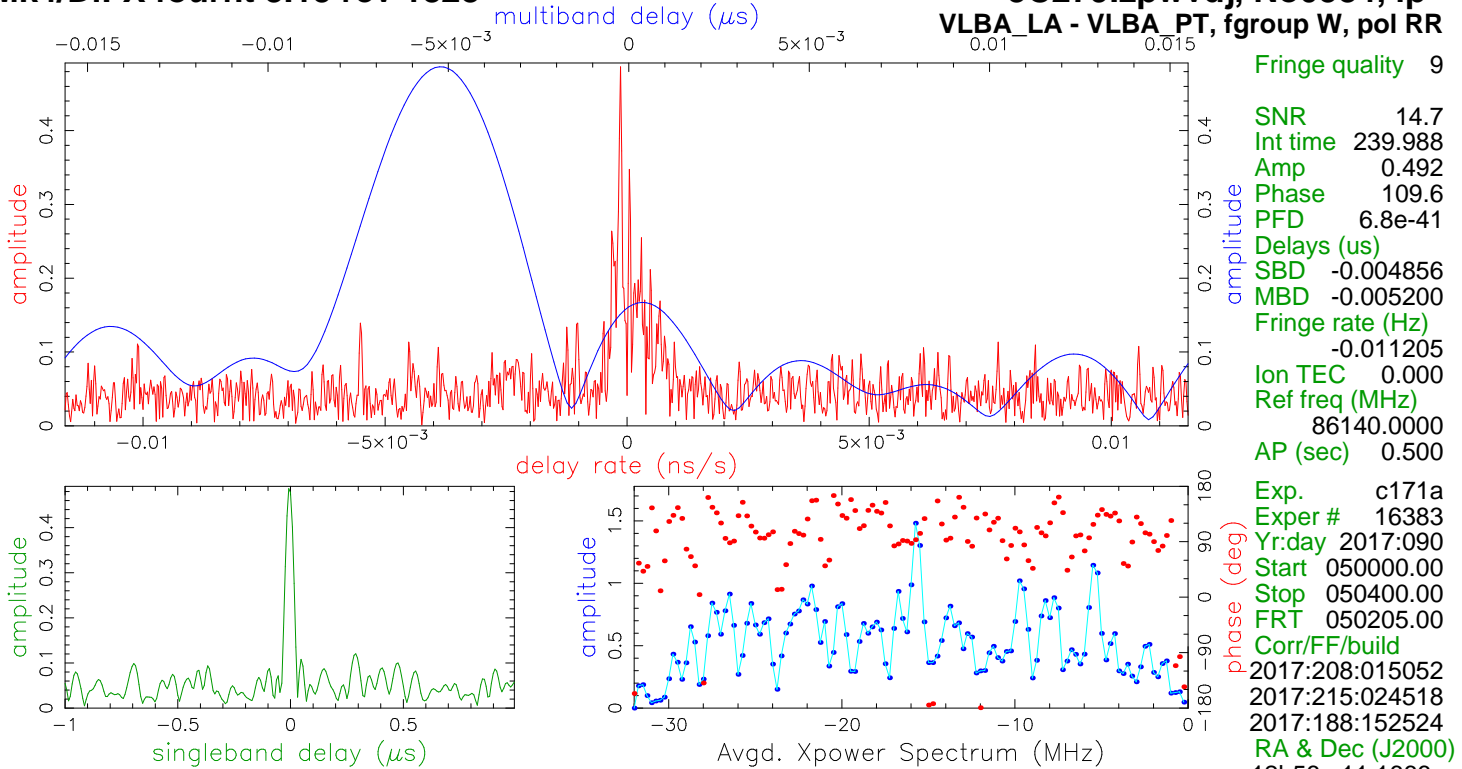


Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024517  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

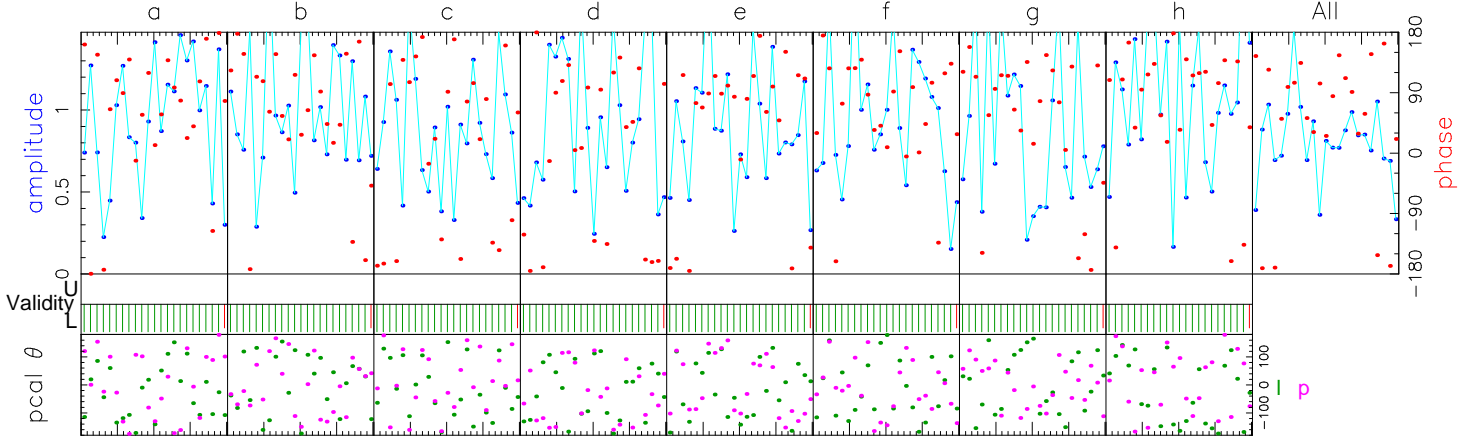
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	123.8	137.4	107.5	95.9	113.9	120.3	132.0	111.1	Phase	116.3
	0.5	0.4	0.8	0.6	0.7	0.5	0.6	0.5	Ampl.	0.6
	129.1	128.9	129.2	128.2	127.8	127.8	128.6	128.5	Sbd box	128.5
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
l	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	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)	4.12345459115E+01		Apriori delay (usec)		4.12390262579E+01		Resid mbdelay (usec)		-4.48035E-03	+/- 1.2E-04
Sband delay (usec)	4.12350877579E+01		Apriori clock (usec)		-6.6486692E+00		Resid sbdelay (usec)		-3.93850E-03	+/- 9.7E-04
Phase delay (usec)	4.12390300074E+01		Apriori clockrate (us/s)		-3.6714780E-07		Resid phdelay (usec)		3.74953E-06	+/- 2.1E-07
Delay rate (us/s)	-4.67450979373E-02		Apriori rate (us/s)		-4.67449657920E-02		Resid rate (us/s)		-1.32145E-07	+/- 1.5E-09
Total phase (deg)	16.1		Apriori accel (us/s/s)		-4.97744889946E-07		Resid phase (deg)		116.3	+/- 6.5
	RMS	Theor.	Amplitude	0.590 +/- 0.033	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	60.8	15.5	Search (1024X32)	0.565	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000
amp/seg (%)	93.1	27.1	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		-0.016	0.016
ph/frq (deg)	14.7	9.2	Inc. seg. avg.	1.032	Sample rate(MSamp/s): 64		dr window (ns/s)		-0.012	0.012
amp/frq (%)	19.3	16.0	Inc. frq. avg.	0.586	Data rate(Mb/s): 1024		ion window (TEC)		0.00	0.00
l: az 132.7 el 35.9 pa -36.5	p: az 130.1 el 35.7 pa -39.2		u,v (fr/asec) 268.839 189.438						simultaneous interpolator	



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

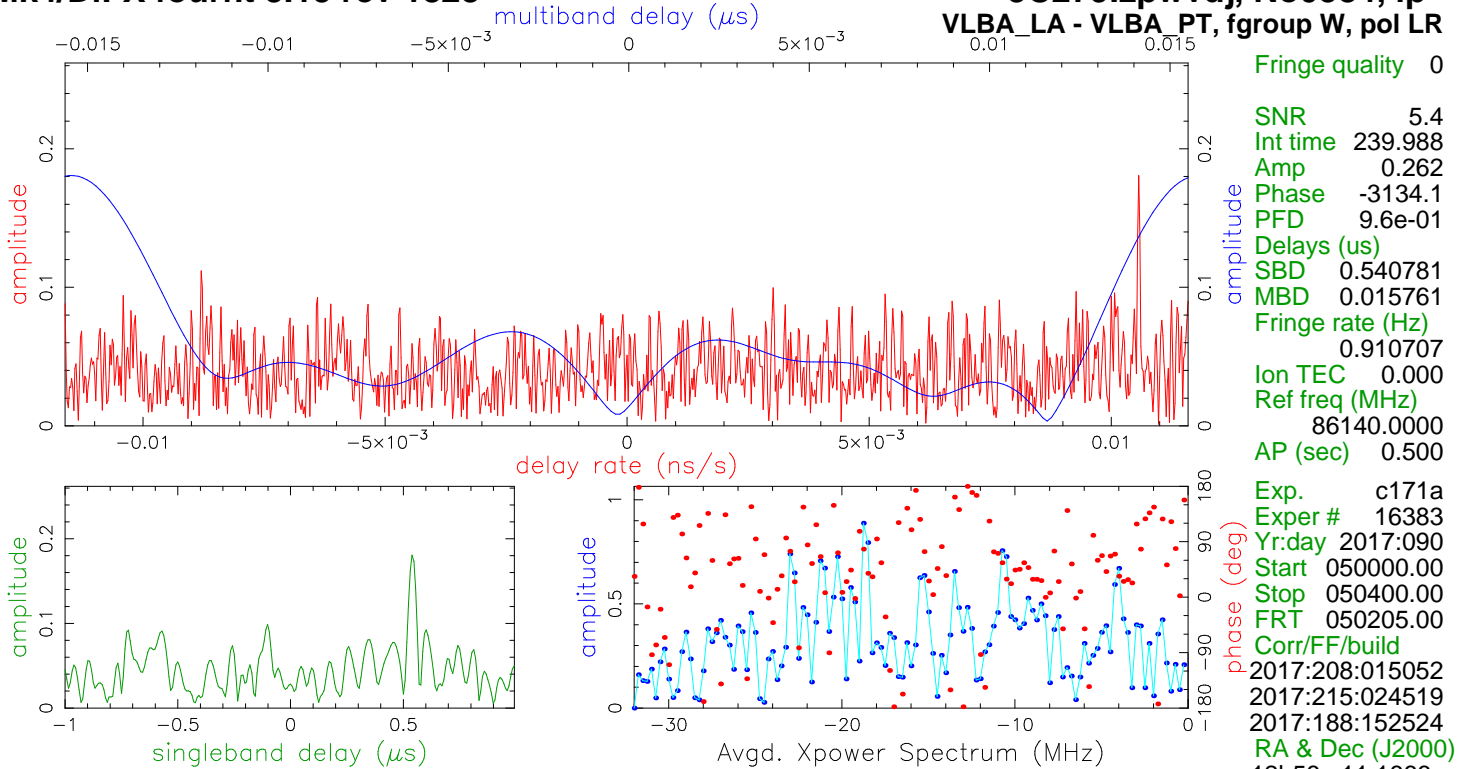


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480			
l	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used		
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC		
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
p	1000	1000	1000	1000	1000	1000	1000	1000			
l	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids		
p	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks		
Group delay (usec)(sbd)		4.12338265365E+01		Apriori delay (usec)	4.12390262579E+01		Resid mbdelay (usec)	-5.19972E-03	+/-	1.5E-04	
Sband delay (usec)		4.12341707579E+01		Apriori clock (usec)	-6.6486692E+00		Resid sbdelay (usec)	-4.85550E-03	+/-	1.2E-03	
Phase delay (usec)		4.12390297908E+01		Apriori clockrate (us/s)	-3.6714780E-07		Resid phdelay (usec)	3.53294E-06	+/-	2.5E-07	
Delay rate (us/s)		-4.67450958665E-02		Apriori rate (us/s)	-4.67449657920E-02		Resid rate (us/s)	-1.30075E-07	+/-	1.8E-09	
Total phase (deg)		9.4		Apriori accel (us/s/s)	-4.97744889946E-07		Resid phase (deg)	109.6	+/-	7.8	
RMS	56.8	18.7		Search (1024X32)	0.471		PCal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
ph/seg (deg)	81.9	32.6		Interp.	0.000		PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
amp/seg (%)	17.1	11.0		Inc. seg. avg.	0.772		Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	17.2	19.2		Inc. frq. avg.	0.491		Sample rate(MSamp/s): 64	dr window (ns/s)	-0.012	0.012	
amp/frq (%)							Data rate(Mb/s): 1024	ion window (TEC)	0.00	0.00	
nlags:	128						t_cohere	infinite			

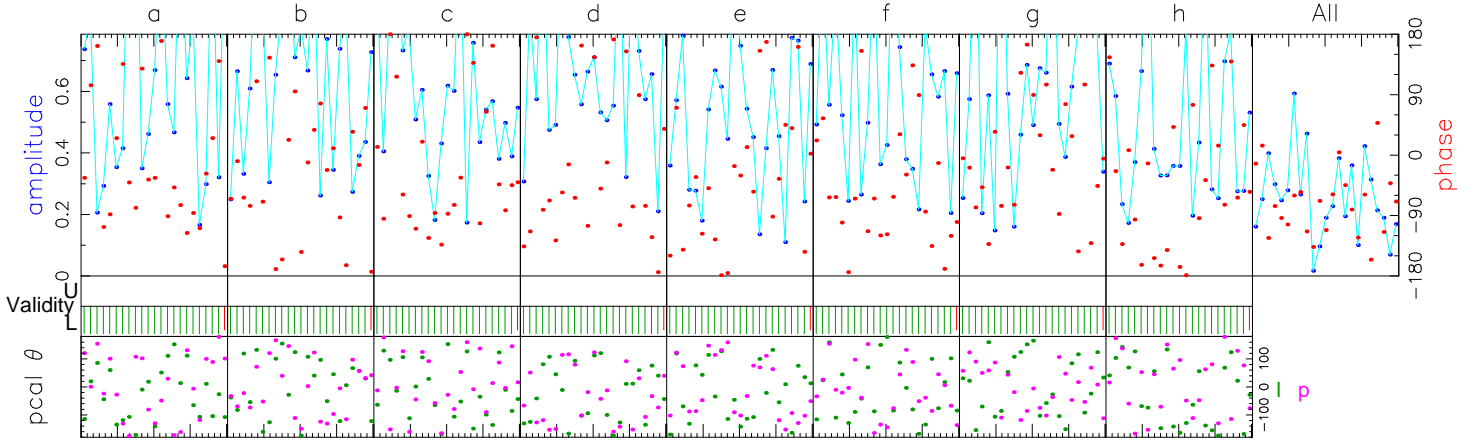
l: az 132.7 el 35.9 pa -36.5      p: az 130.1 el 35.7 pa -39.2      u,v (fr/asec) 268.839 189.438      simultaneous interpolator

Control file: ../cf\_1234    Input file: /Exps/c171a/gmva/1234/No0584/lp..zpwvdj    Output file: /Exps/c171a/gmva/1234/No0584/lp.W.82.zpwvdj





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

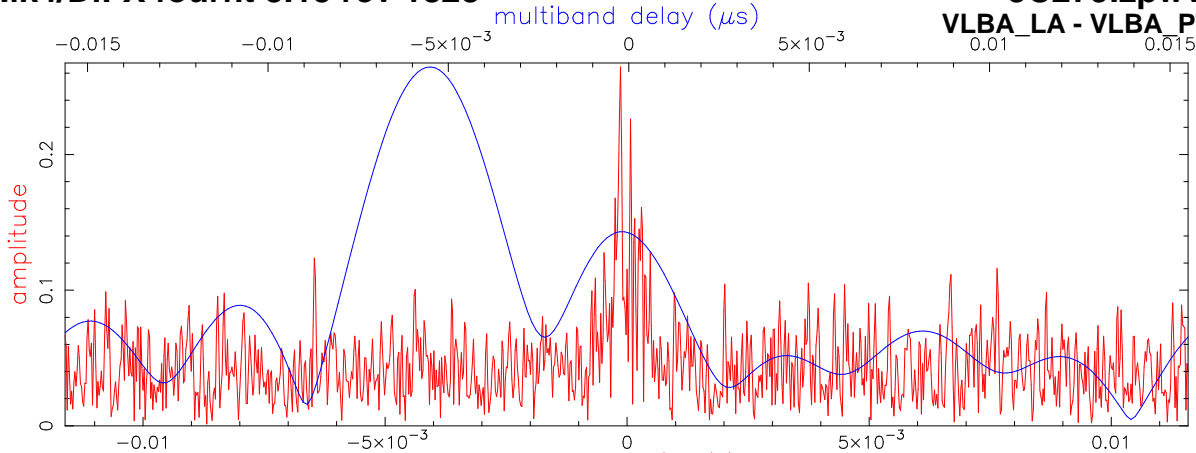


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-75.0	-20.2	-79.2	-94.1	-69.5	-71.8	-44.9	-93.4	Phase	-74.1
0.4	0.1	0.3	0.5	0.2	0.4	0.2	0.2	Ampl.	0.2
197.0	29.6	251.0	165.8	57.7	198.3	93.0	33.7	Sbd box	198.2
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
l	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000		
l	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	Chan ids	
p	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W07LR	Tracks	
								Chan ids	
								Tracks	

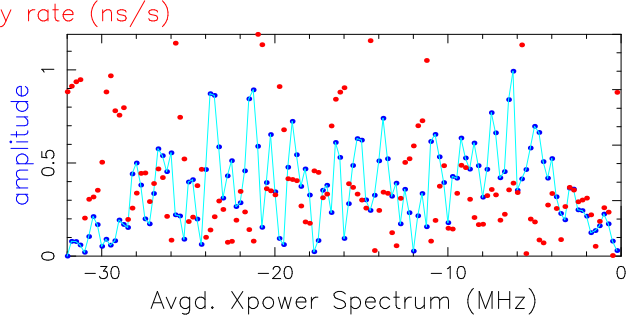
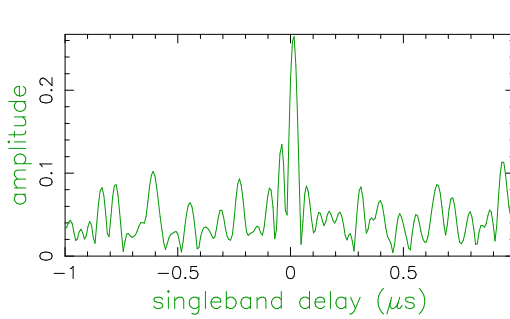
Group delay (usec)(sbd)	4.17860376329E+01	Apriori delay (usec)	4.12390262579E+01	Resid mbdelay (usec)	1.57614E-02	+/-	4.0E-04
Sband delay (usec)	4.17798077579E+01	Apriori clock (usec)	-6.6486692E+00	Resid sbdelay (usec)	5.40781E-01	+/-	3.2E-03
Phase delay (usec)	4.12390238689E+01	Apriori clockrate (us/s)	-3.6714780E-07	Resid phdelay (usec)	-2.38896E-06	+/-	6.8E-07
Delay rate (us/s)	-4.67343933837E-02	Apriori rate (us/s)	-4.67449657920E-02	Resid rate (us/s)	1.05724E-05	+/-	4.9E-09
Total phase (deg)	-2874.2	Apriori accel (us/s/s)	-4.97744889946E-07	Resid phase (deg)	-3134.1	+/-	21.1
RMS	Theor.	Amplitude	0.262 +/- 0.048	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
ph/seg (deg)	49.8	Search (1024X32)	0.174	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
amp/seg (%)	84.7	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
ph/frq (deg)	27.6	Inc. seg. avg.	0.267	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
amp/frq (%)	46.4	Inc. frq. avg.	0.242	Data rate(Mb/s):	1024	nlags:	128
						t_cohere	infinite
						ion window (TEC)	0.00 0.00

l: az 132.7 el 35.9 pa -36.5      p: az 130.1 el 35.7 pa -39.2      u,v (fr/asec) 268.839 189.438      simultaneous interpolator

Control file: ../cf\_1234    Input file: /Exps/c171a/gmva/1234/No0584/lp..zpwvdj    Output file: /Exps/c171a/gmva/1234/No0584/lp.W.83.zpwvdj

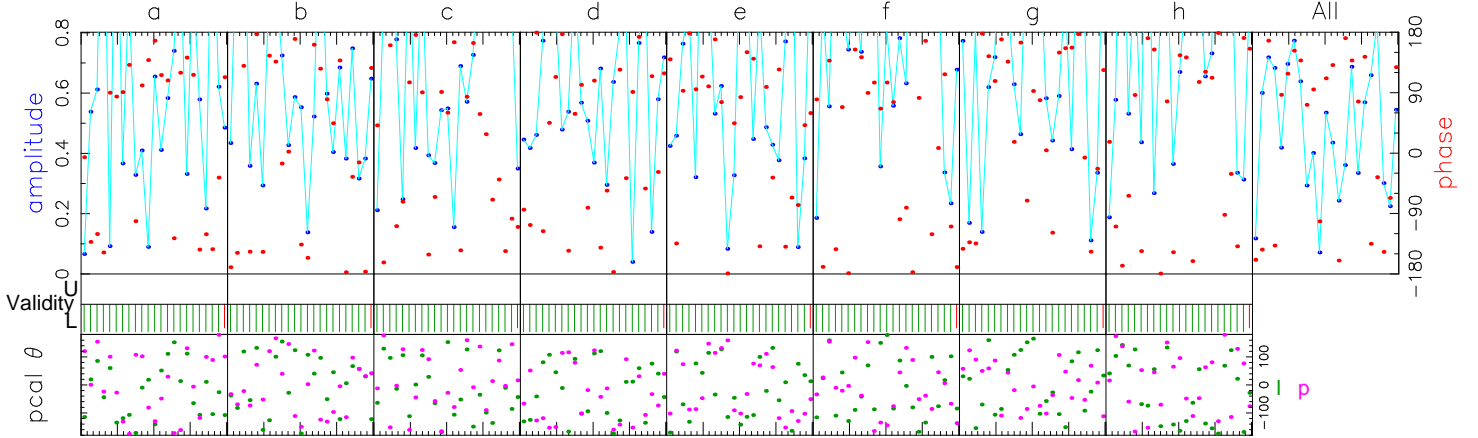


Fringe quality 9  
 SNR 8.0  
 Int time 239.988  
 Amp 0.267  
 Phase -26.4  
 PFD 9.6e-08  
 Delays (us)  
 SBD 0.012722  
 MBD -0.005501  
 Fringe rate (Hz)  
 -0.011932  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500



Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024520  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

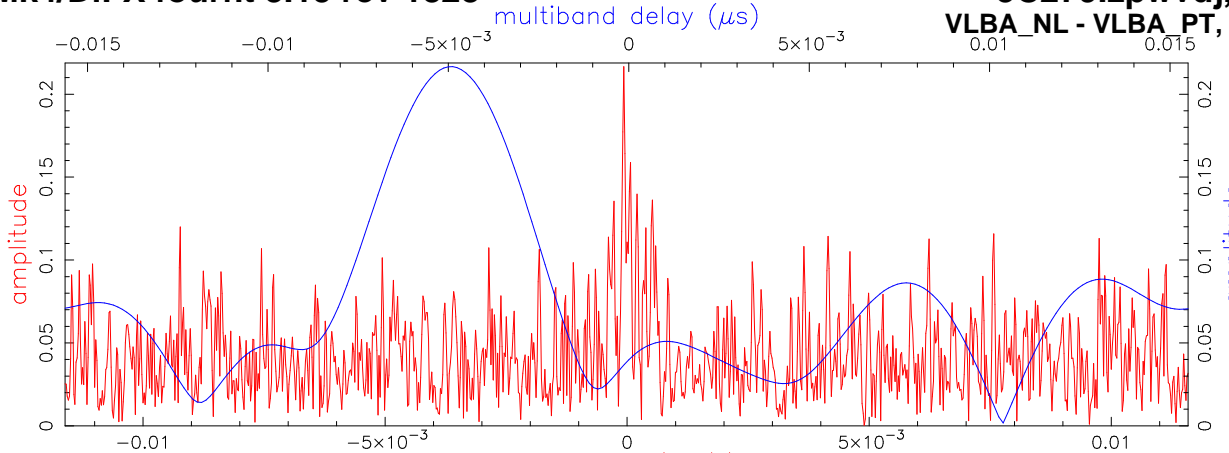
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



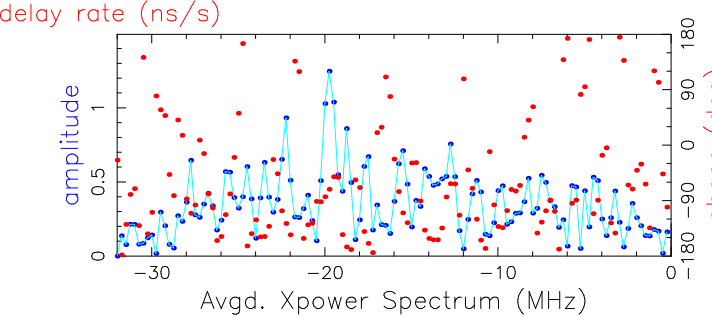
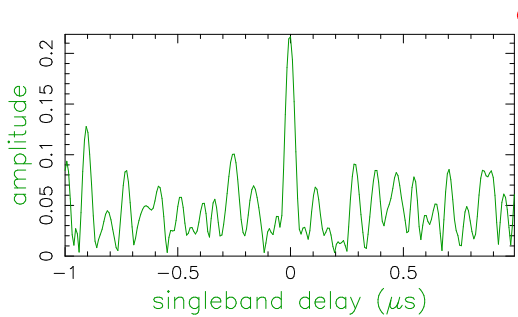
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
l	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Man'l PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
p	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
Group delay (usec)(sbd)		4.12647750990E+01		Apriori delay (usec)	4.12390262579E+01		Resid mbdelay (usec)	-5.50116E-03		+/- 2.7E-04
Sband delay (usec)		4.12517482579E+01		Apriori clock (usec)	-6.6486692E+00		Resid sbdelay (usec)	1.27220E-02		+/- 2.2E-03
Phase delay (usec)		4.12390312097E+01		Apriori clockrate (us/s)	-3.6714780E-07		Resid phdelay (usec)	4.95181E-06		+/- 4.6E-07
Delay rate (us/s)		-4.67451043092E-02		Apriori rate (us/s)	-4.67449657920E-02		Resid rate (us/s)	-1.38517E-07		+/- 3.3E-09
Total phase (deg)		-126.6		Apriori accel (us/s/s)	-4.97744889946E-07		Resid phase (deg)	-26.4		+/- 14.3

RMS Theor. Amplitude 0.267 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 68.5 34.3 Search (1024X32) 0.259 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 113.3 59.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 16.2 20.2 Inc. seg. avg. 0.411 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 (%) 43.1 35.3 Inc. frq. avg. 0.256 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

l: az 132.7 el 35.9 pa -36.5 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) 268.839 189.438 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/lp..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/lp.W.84.zpwvdj

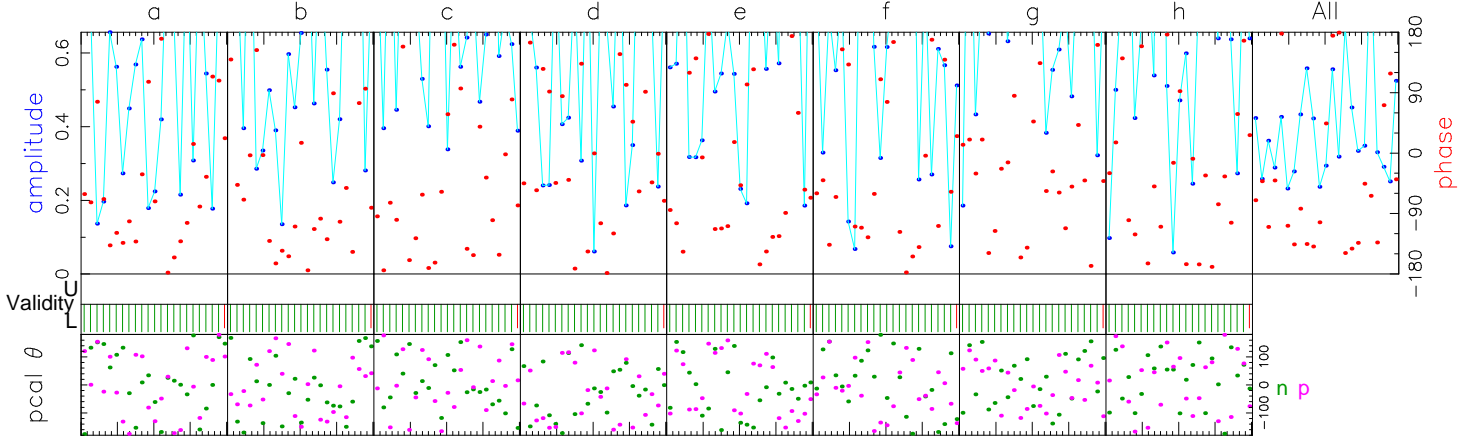


Fringe quality 0  
SNR 6.6  
Int time 239.987  
Amp 0.219  
Phase -114.7  
PFD 3.9e-03  
Delays (us)  
SBD -0.003204  
MBD -0.004885  
Fringe rate (Hz)  
-0.006650  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500



Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024530  
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



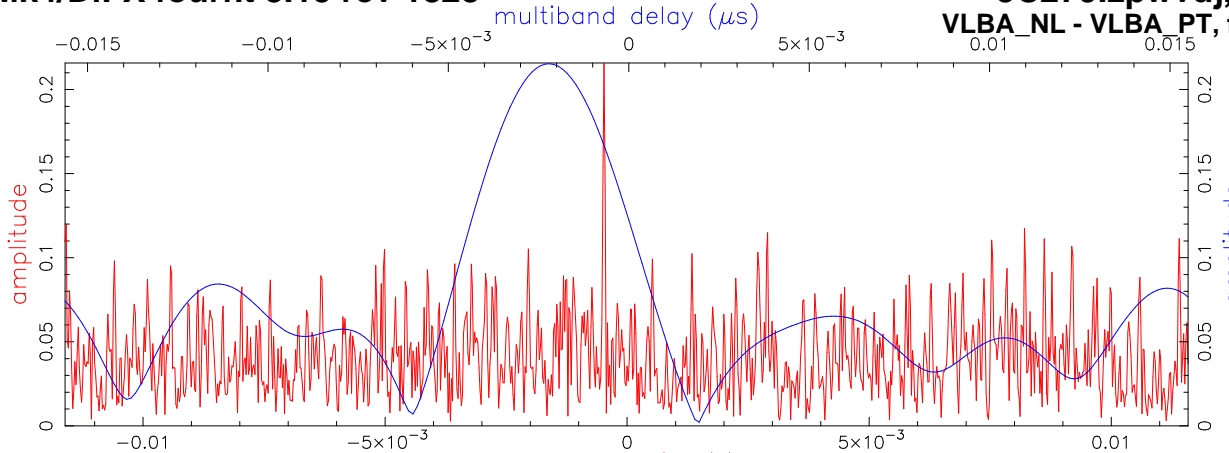
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480			
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000			
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000			
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
n	1000	1000	1000	1000	1000	1000	1000	1000			
p	1000	1000	1000	1000	1000	1000	1000	1000			
n	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL			
p	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL			
Group delay (usec)(sbd)	7.05401871125E+02		Apriori delay (usec)		7.05406755861E+02		Resid mbdelay (usec)		-4.88474E-03	+/- 3.3E-04	
Sband delay (usec)	7.05403552361E+02		Apriori clock (usec)		2.9975812E+00		Resid sbdelay (usec)		-3.20350E-03	+/- 2.6E-03	
Phase delay (usec)	7.05406752161E+02		Apriori clockrate (us/s)		3.0411803E-08		Resid phdelay (usec)		-3.69922E-06	+/- 5.6E-07	
Delay rate (us/s)	-3.64253483247E-01		Apriori rate (us/s)		-3.64253406048E-01		Resid rate (us/s)		-7.71985E-08	+/- 4.1E-09	
Total phase (deg)	227.2		Apriori accel (us/s/s)		-4.91944076746E-06		Resid phase (deg)		-114.7	+/- 17.5	
RMS	71.2	41.9	Search (1024X32)	0.207	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000	1.000
ph/seg (deg)	107.7	73.2	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.016	0.016
amp/seg (%)	36.6	24.7	Inc. seg. avg.	0.314	Bits/sample: 2x2		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012
amp/frq (%)	33.3	43.1	Inc. frq. avg.	0.223	Data rate(Mb/s): 1024		nlags: 128 t_cohere infinite		ion window (TEC)	0.00	0.00

n: az 151.6 el 38.3 pa -20.6 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) 2093.919 943.487 simultaneous interpolator  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/np.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/np.W.93.zpwvdj

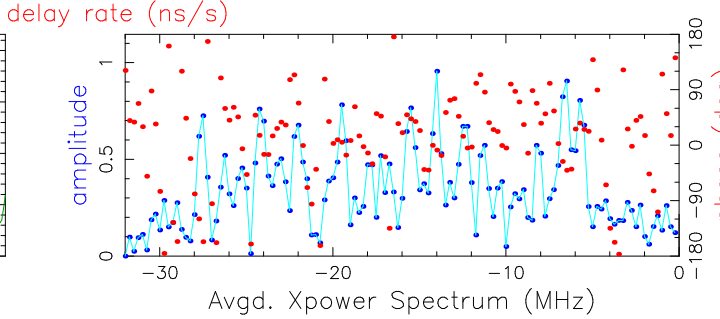
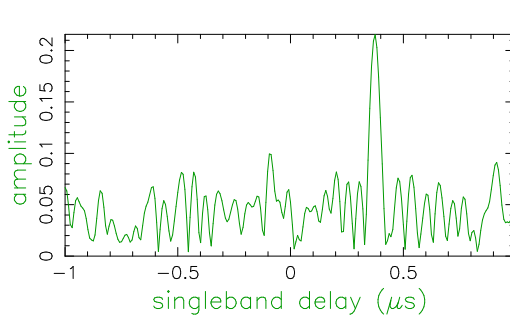






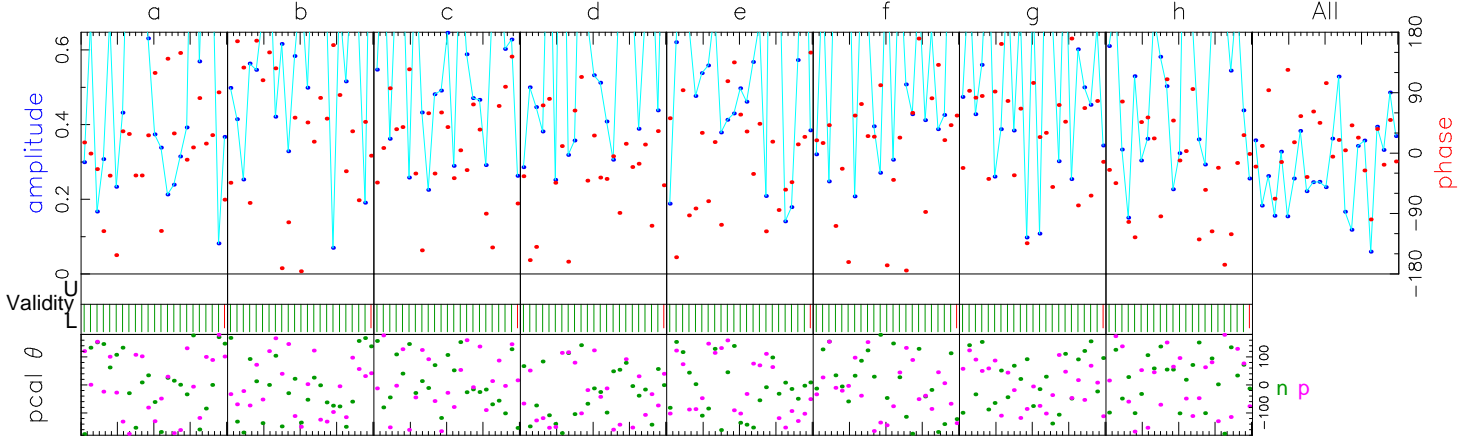


Fringe quality 0  
SNR 6.5  
Int time 239.987  
Amp 0.216  
Phase -2141.8  
PFD 7.2e-03  
Delays (us)  
SBD 0.373585  
MBD -0.002200  
Fringe rate (Hz)  
-0.040722  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024533  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"



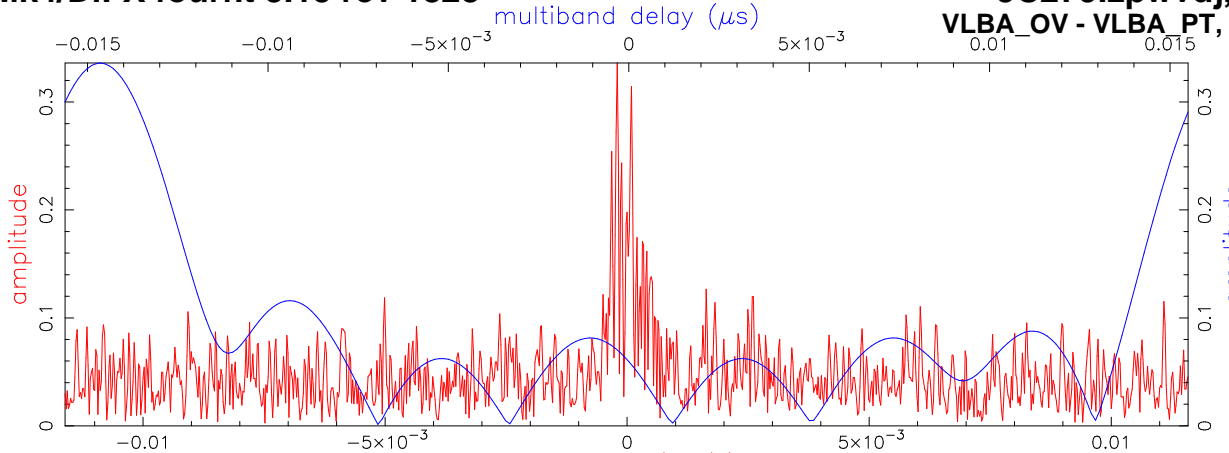
Avgd. Xpower Spectrum (MHz)

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

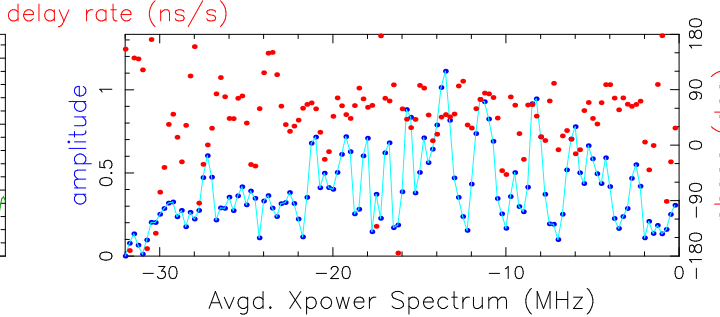
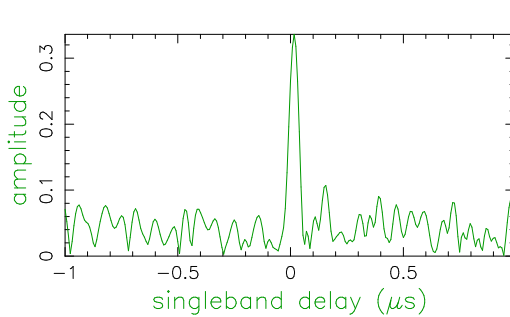


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	176.8		
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	18.2		
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	0.2		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	176.8		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
n	1000	1000	1000	1000	1000	1000	1000	1000			
p	1000	1000	1000	1000	1000	1000	1000	1000			
n	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR			
p	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL			
Group delay (usec)(sbd)	7.05779555586E+02		Apriori delay (usec)		7.05406755861E+02		Resid mbdelay (usec)		-2.20027E-03	+/- 3.4E-04	
Sband delay (usec)	7.05780340361E+02		Apriori clock (usec)		2.9975812E+00		Resid sbdelay (usec)		3.73585E-01	+/- 2.7E-03	
Phase delay (usec)	7.05406756448E+02		Apriori clockrate (us/s)		3.0411803E-08		Resid phdelay (usec)		5.87819E-07	+/- 5.7E-07	
Delay rate (us/s)	-3.64253878785E-01		Apriori rate (us/s)		-3.64253406048E-01		Resid rate (us/s)		-4.72736E-07	+/- 4.1E-09	
Total phase (deg)			Apriori accel (us/s/s)		-4.91944076746E-06		Resid phase (deg)		-2141.8	+/- 17.7	
RMS	51.8	42.5	Search (1024X32)	0.211	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000	1.000
ph/seg (deg)	61.8	74.2	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.016	0.016
amp/seg (%)	32.2	25.1	Inc. seg. avg.	0.223	Bits/sample: 2x2		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012
amp/frq (%)	29.1	43.8	Inc. frq. avg.	0.217	Data rate(Mb/s): 1024		nlags: 128 t_cohere infinite		ion window (TEC)	0.00	0.00

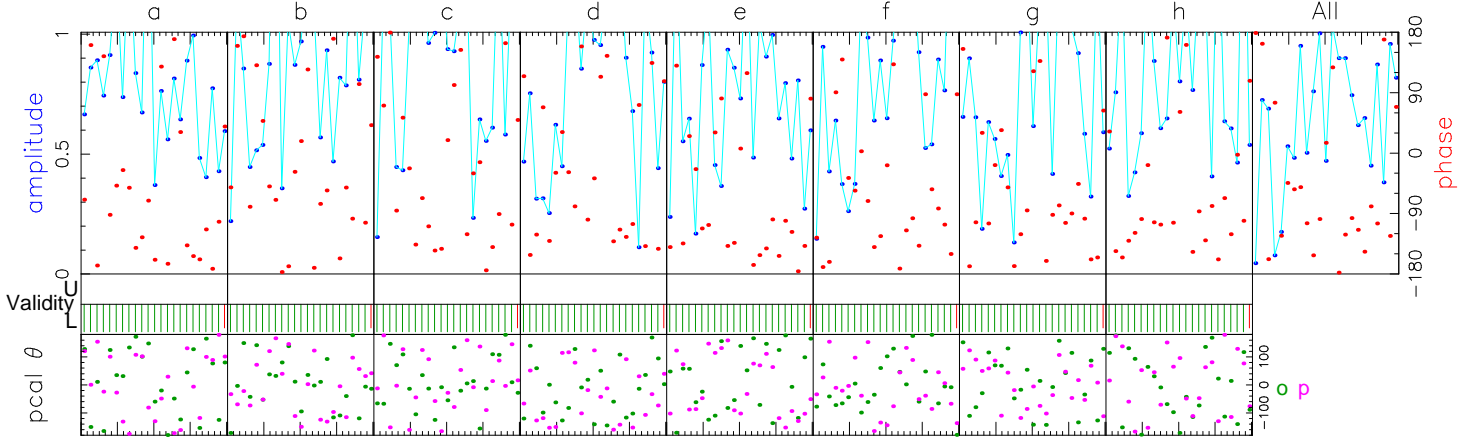
n: az 151.6 el 38.3 pa -20.6 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) 2093.919 943.487 simultaneous interpolator  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/np.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/np.W.96.zpwvdj



Fringe quality 9  
SNR 10.1  
Int time 239.988  
Amp 0.336  
Phase -304.4  
PFD 8.1e-16  
Delays (us)  
SBD 0.015847  
MBD -0.014648  
Fringe rate (Hz)  
-0.017950  
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  
2017:215:024539  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

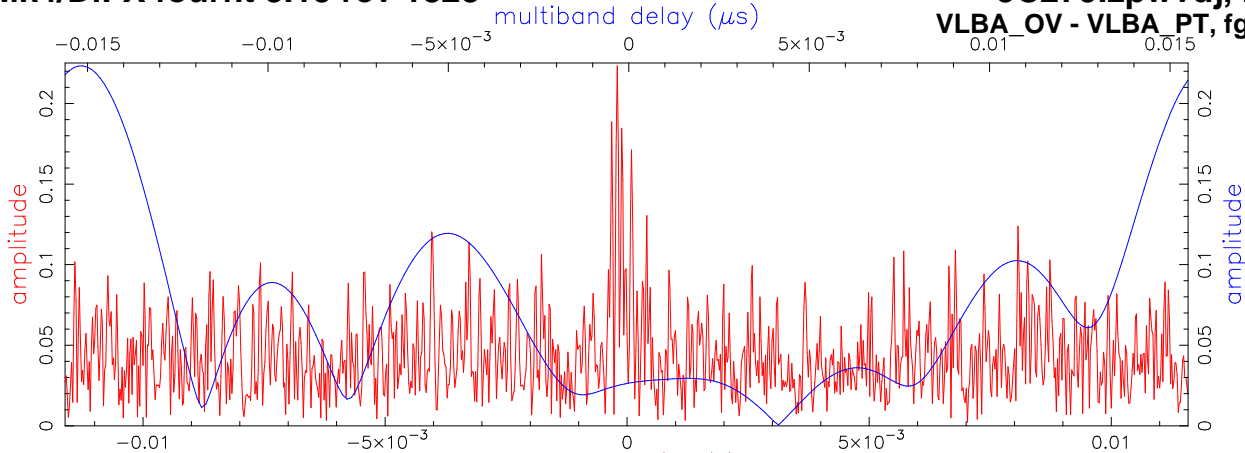


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

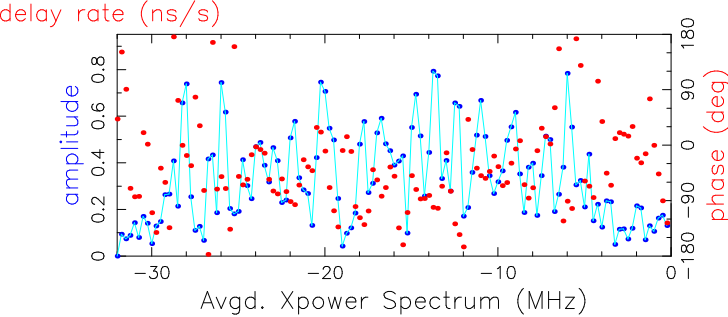
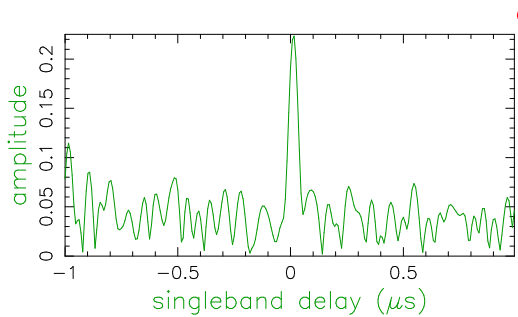


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
o	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
p	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Group delay (usec)(sbd)		-2.63348689923E+03			-2.63350350114E+03				-1.46481E-02	+/- 2.2E-04
Sband delay (usec)		-2.63348765464E+03			-1.9710791E-01				1.58465E-02	+/- 1.7E-03
Phase delay (usec)		-2.63350350516E+03			-6.6908013E-09				-4.01245E-06	+/- 3.7E-07
Delay rate (us/s)		1.30333045039E-01			1.30333253425E-01				-2.08386E-07	+/- 2.6E-09
Total phase (deg)			-516.3		1.35238353086E-05				-304.4	+/- 11.4
RMS	72.5	27.3			0.336 +/- 0.033					
ph/seg (deg)	72.5	27.3			0.331					
amp/seg (%)	123.4	47.6			0.000					
ph/frq (deg)	12.7	16.1			0.576					
amp/frq (%)	22.2	28.1			0.329					
Apriori delay (usec)					0.331					
Apriori clock (usec)					0.000					
Apriori clockrate (us/s)					0.000					
Apriori rate (us/s)					1.30333253425E-01					
Apriori accel (us/s/s)					1.35238353086E-05					
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MSamp/s): 64										
Data rate(Mb/s): 1024										
nlags: 128										
t_cohere infinite										
ion window (TEC)										
sb window (us)	-1.000	1.000								
mb window (us)	-0.016	0.016								
dr window (ns/s)	-0.012	0.012								
simultaneous interpolator										

o: az 122.6 el 27.4 pa -42.2 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) -740.533 254.966  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/op.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/op.W.101.zpwvdj

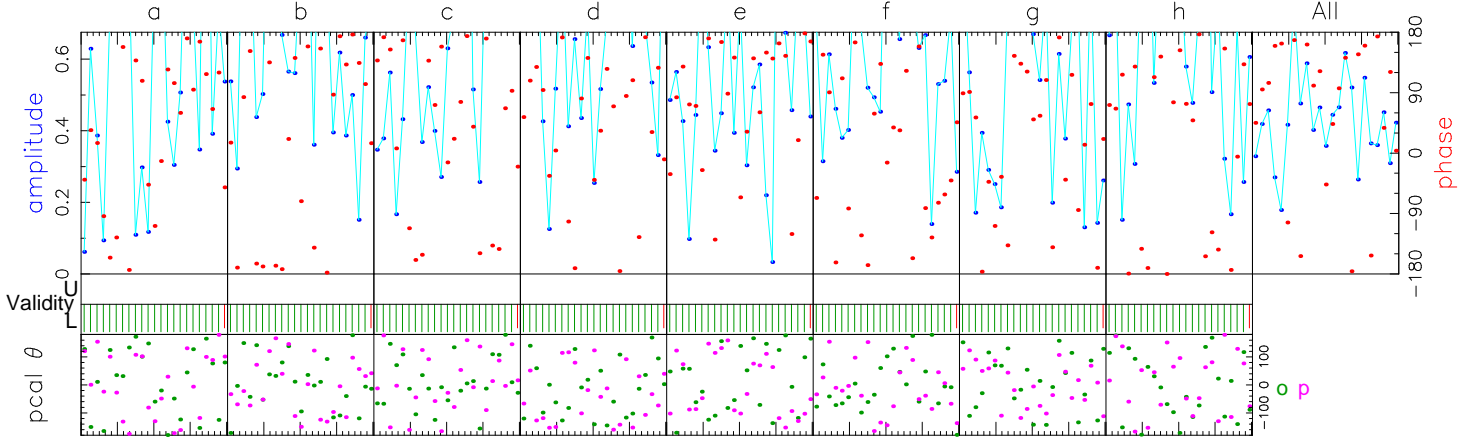


Fringe quality 0  
 SNR 6.7  
 Int time 239.988  
 Amp 0.225  
 Phase -41.3  
 PFD 1.1e-03  
 Delays (us)  
 SBD 0.012775  
 MBD -0.015136  
 Fringe rate (Hz)  
 -0.018478  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500



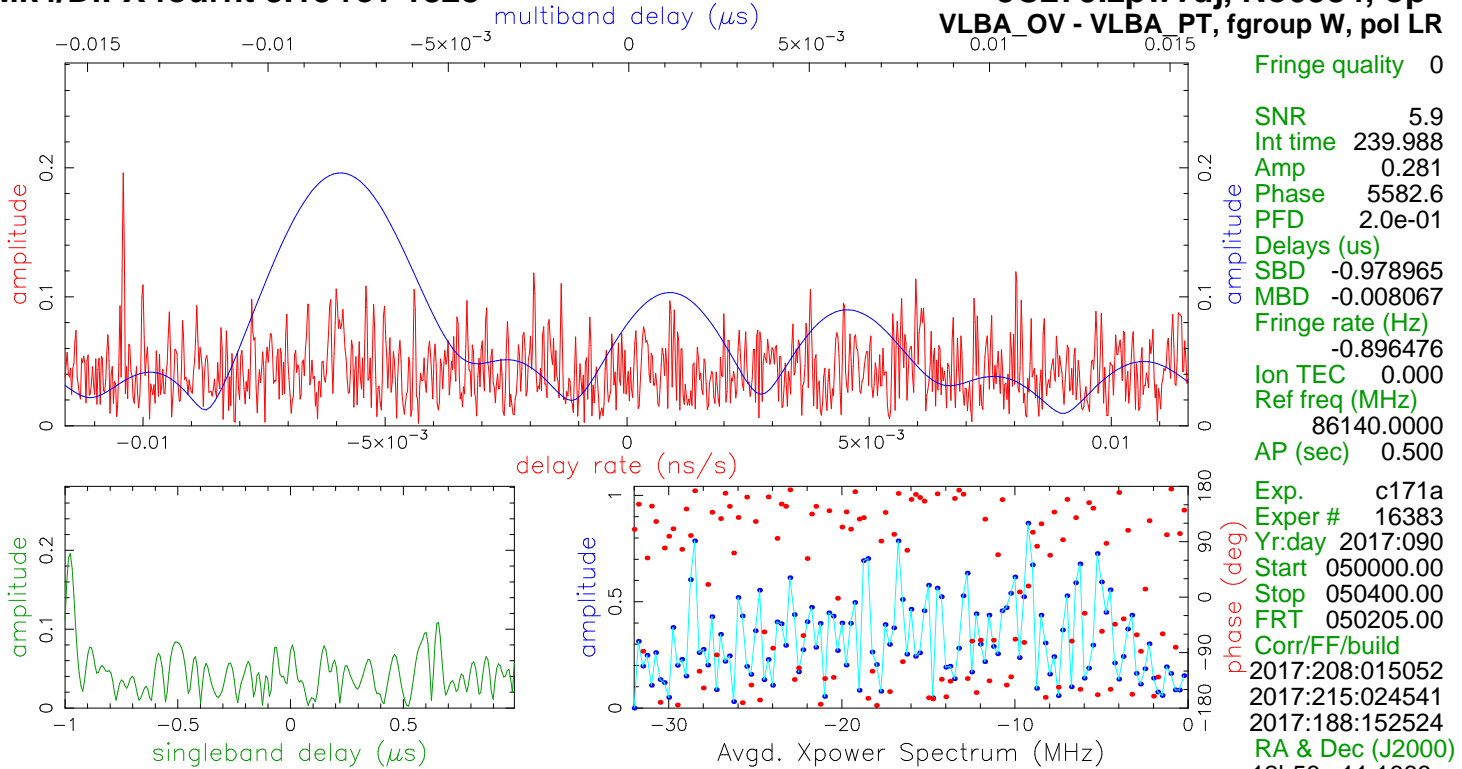
Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024540  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5° 47' 21.525"

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

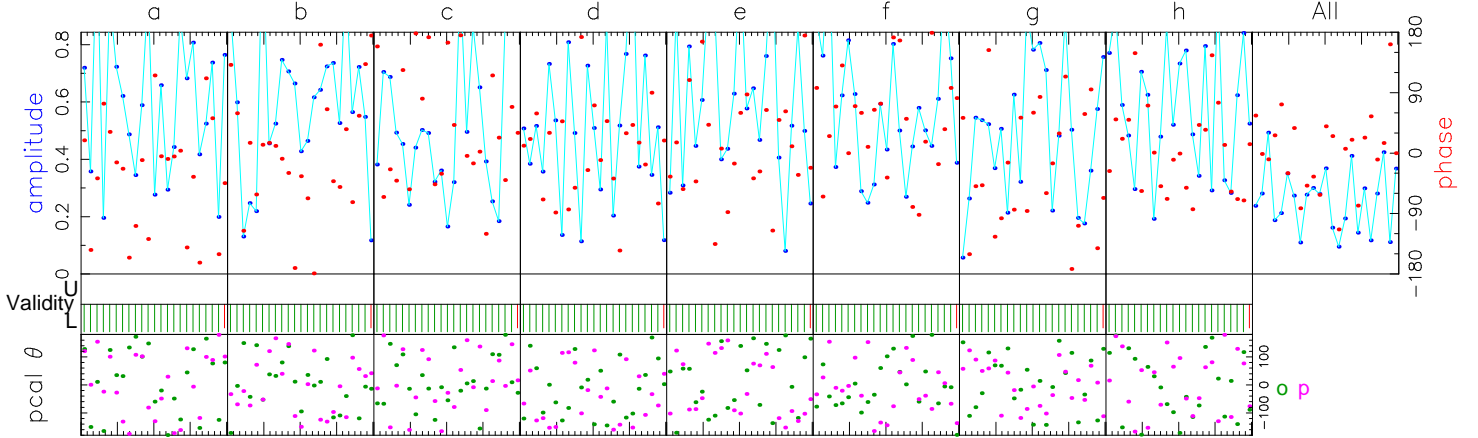


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
o	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
p	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.63348738704E+03								Resid mbdelay (usec)	-1.51359E-02 +/- 3.2E-04
Sband delay (usec)	-2.63349072664E+03								Resid sbdelay (usec)	1.27745E-02 +/- 2.6E-03
Phase delay (usec)	-2.63350349667E+03								Resid phdelay (usec)	4.47161E-06 +/- 5.5E-07
Delay rate (us/s)	1.30333038911E-01								Resid rate (us/s)	-2.14514E-07 +/- 4.0E-09
Total phase (deg)		-253.2							Resid phase (deg)	-41.3 +/- 17.0
	RMS	Theor.	Amplitude	0.225 +/- 0.033					Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	69.6	40.7	Search (1024X32)	0.208					Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	106.7	71.1	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.016 0.016
ph/frq (deg)	36.7	24.0	Inc. seg. avg.	0.343					Sample rate(MSamp/s): 64	dr window (ns/s) -0.012 0.012
amp/frq (%)	46.6	41.9	Inc. frq. avg.	0.217					Data rate(Mb/s): 1024	ion window (TEC) 0.00 0.00
									nlags: 128 t_cohere infinite	

o: az 122.6 el 27.4 pa -42.2 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) -740.533 254.966 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/op.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/op.W.102.zpwvdj



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

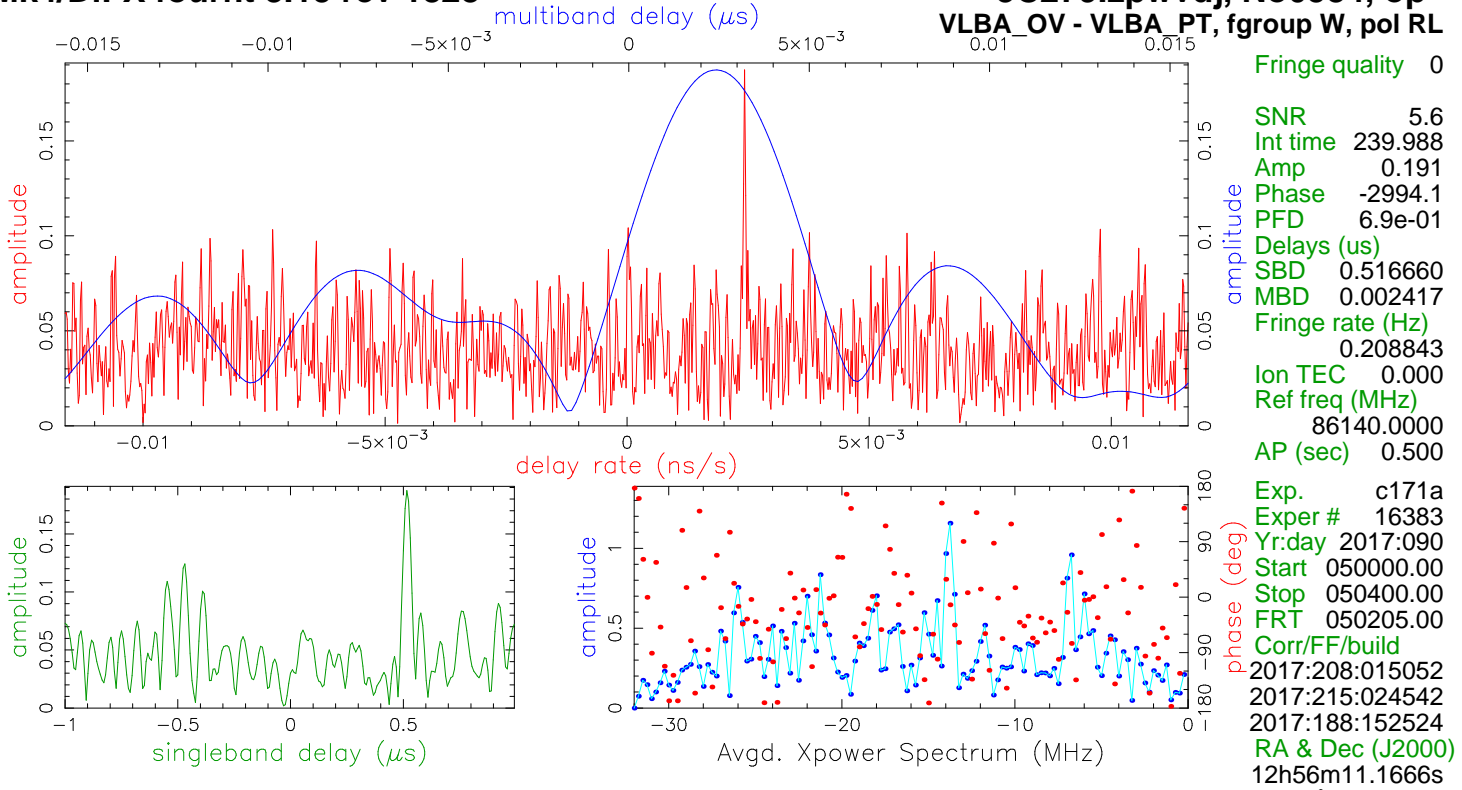


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-22.2	16.1	3.4	3.4	5.6	50.0	-65.8	-6.8	Phase	2.6
0.4	0.3	0.2	0.4	0.3	0.1	0.3	0.5	Ampl.	0.3
2.7	96.9	8.9	95.8	188.5	219.1	203.9	3.0	Sbd box	3.7
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
o	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
o	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000		
o	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	Chan ids	
p	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-2.63448031858E+03		Apriori delay (usec)	-2.63350350114E+03		Resid mbdelay (usec)	-8.06743E-03	+/-	3.7E-04
Sband delay (usec)	-2.63448246564E+03		Apriori clock (usec)	-1.9710791E-01		Resid sbdelay (usec)	-9.78965E-01	+/-	2.9E-03
Phase delay (usec)	-2.63350350106E+03		Apriori clockrate (us/s)	-6.6908013E-09		Resid phdelay (usec)	8.34232E-08	+/-	6.3E-07
Delay rate (us/s)	1.30322846226E-01		Apriori rate (us/s)	1.30333253425E-01		Resid rate (us/s)	-1.04072E-05	+/-	4.5E-09
Total phase (deg)		5370.7	Apriori accel (us/s/s)	1.35238353086E-05		Resid phase (deg)	5582.6	+/-	19.4

ph/seg (deg)	58.1	Theor.	46.5	Amplitude	0.281 +/- 0.048	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	63.3		81.2	Search (1024X32)	0.193	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	36.1		27.5	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	38.5		47.9	Inc. seg. avg.	0.278	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
				Inc. frq. avg.	0.276	Data rate(Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00

o: az 122.6 el 27.4 pa -42.2 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) -740.533 254.966 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/op.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/op.W.103.zpwvdj



Fringe quality 0

SNR 5.6

Int time 239.988

Amp 0.191

Phase -2994.1

PFD 6.9e-01

Delays (us)

SBD 0.516660

MBD 0.002417

Fringe rate (Hz) 0.208843

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

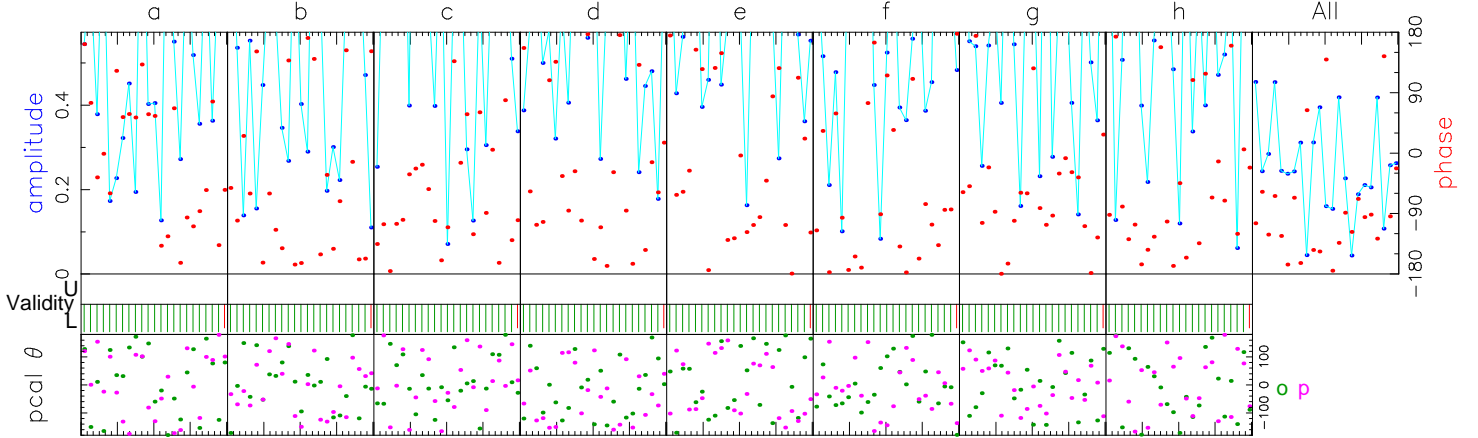
2017:208:015052

2017:215:024542

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
-49.5	-134.7	-82.3	-107.1	-135.3	-161.2	-81.9	-116.7	Phase	-114.1
0.0	0.2	0.2	0.2	0.2	0.2	0.3	0.3	Ampl.	0.2
69.1	197.2	69.9	157.2	193.1	155.9	194.1	194.9	Sbd box	195.1
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
o -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
o:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
o 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000		
o W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
p W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
Group delay (usec)(sbd)	-2.63300108411E+03	Apriori delay (usec)	-2.63350350114E+03	Resid mbdelay (usec)	2.41703E-03	+/-	3.9E-04		
Sband delay (usec)	-2.63298684114E+03	Apriori clock (usec)	-1.9710791E-01	Resid sbdelay (usec)	5.16660E-01	+/-	3.1E-03		
Phase delay (usec)	-2.63350350482E+03	Apriori clockrate (us/s)	-6.6908013E-09	Resid phdelay (usec)	-3.67852E-06	+/-	6.6E-07		
Delay rate (us/s)	1.30335677889E-01	Apriori rate (us/s)	1.30333253425E-01	Resid rate (us/s)	2.42446E-06	+/-	4.7E-09		
Total phase (deg)	-3205.9	Apriori accel (us/s/s)	1.35238353086E-05	Resid phase (deg)	-2994.1	+/-	20.4		

ph/seg (deg) 60.7 48.9 Search (1024X32) 0.184 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 71.0 85.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

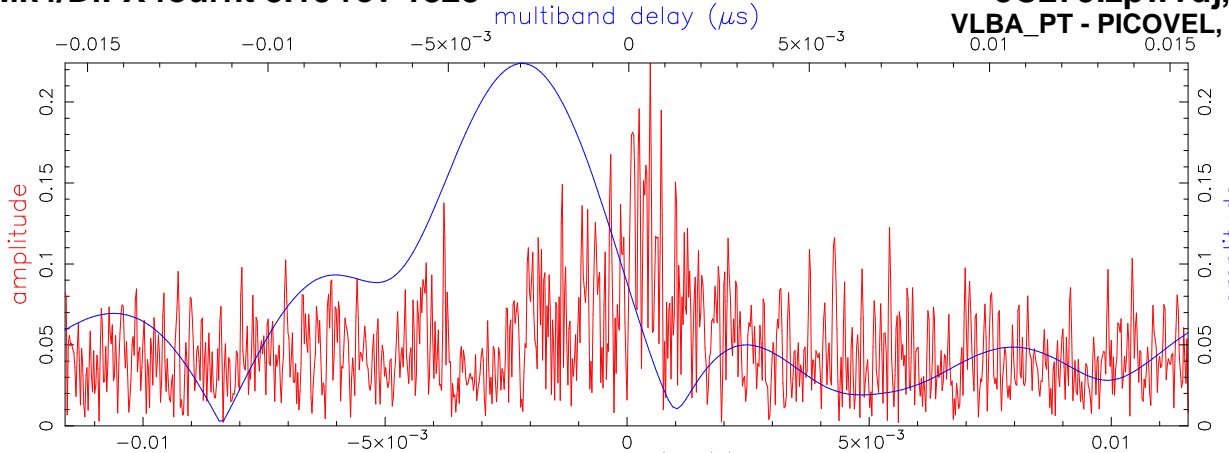
ph/frq (deg) 39.5 28.8 Inc. seg. avg. 0.191 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 43.9 50.3 Inc. frq. avg. 0.191 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012

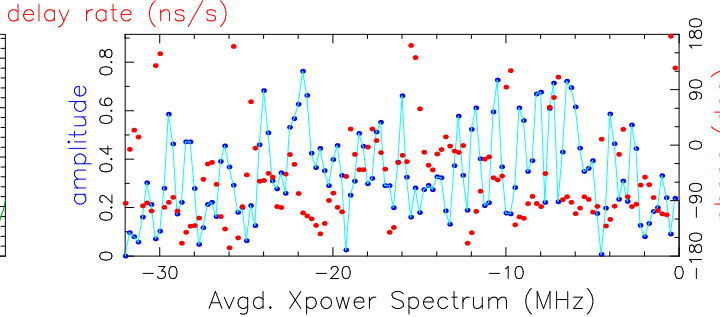
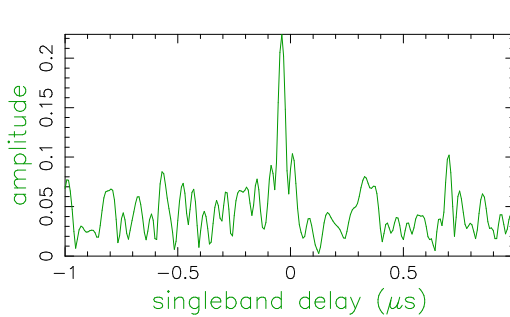
o: az 122.6 el 27.4 pa -42.2 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) -740.533 254.966 ion window (TEC) 0.00 0.00

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/op.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/op.W.104.zpwvdj simultaneous interpolator



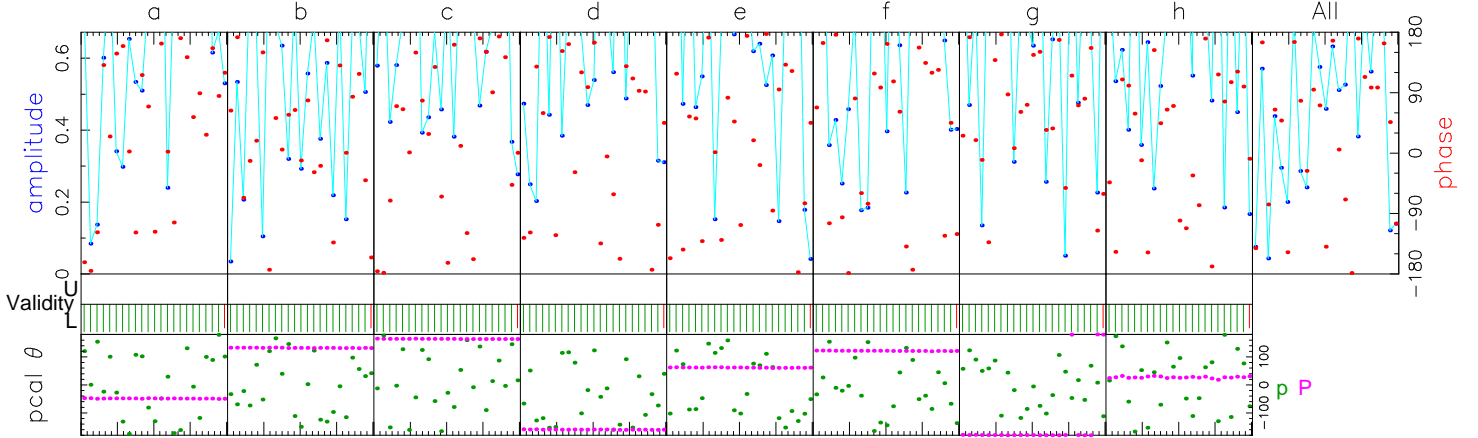


Fringe quality 0  
SNR 6.7  
Int time 239.675  
Amp 0.224  
Phase 310.9  
PFD 1.4e-03  
Delays (us)  
SBD -0.039437  
MBD -0.002961  
Fringe rate (Hz) 0.041764  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024547  
2017:188:152524  
RA & Dec (J2000) 12h56m11.1666s -5°47'21.525"



Avgd. Xpower Spectrum (MHz)

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

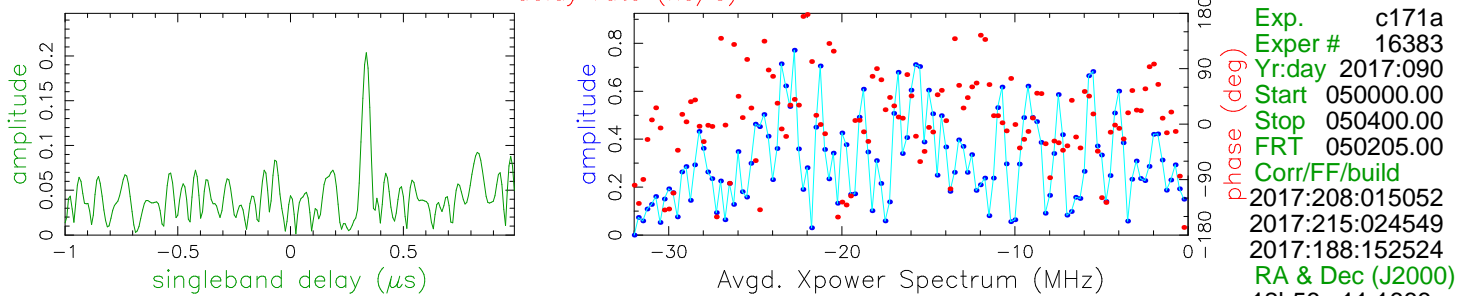
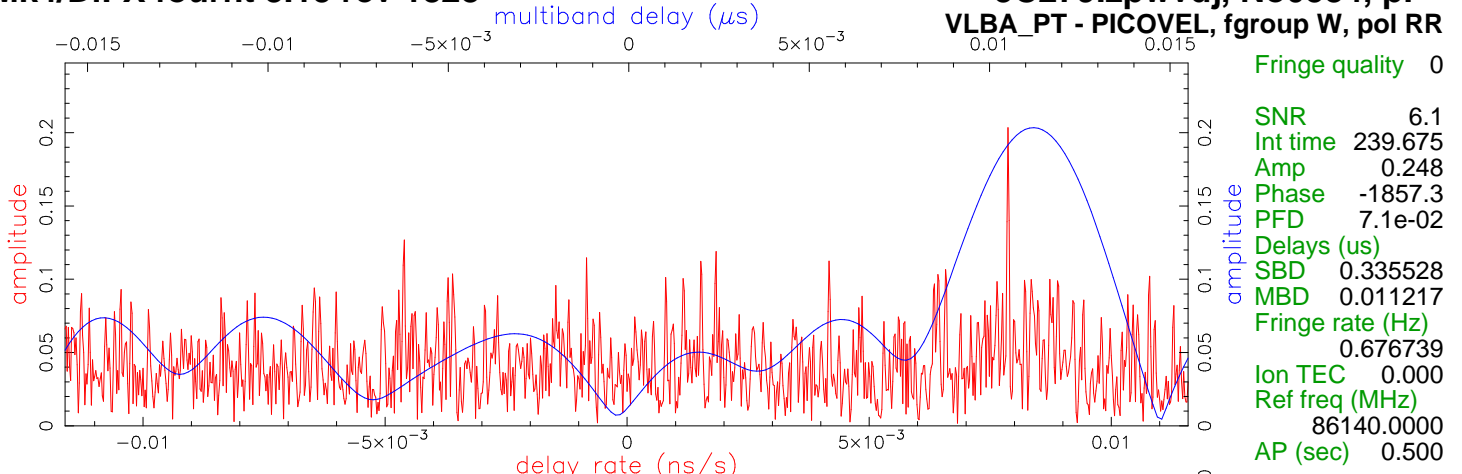


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
p:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
P:P	0:0	0:0	0:0	0:0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

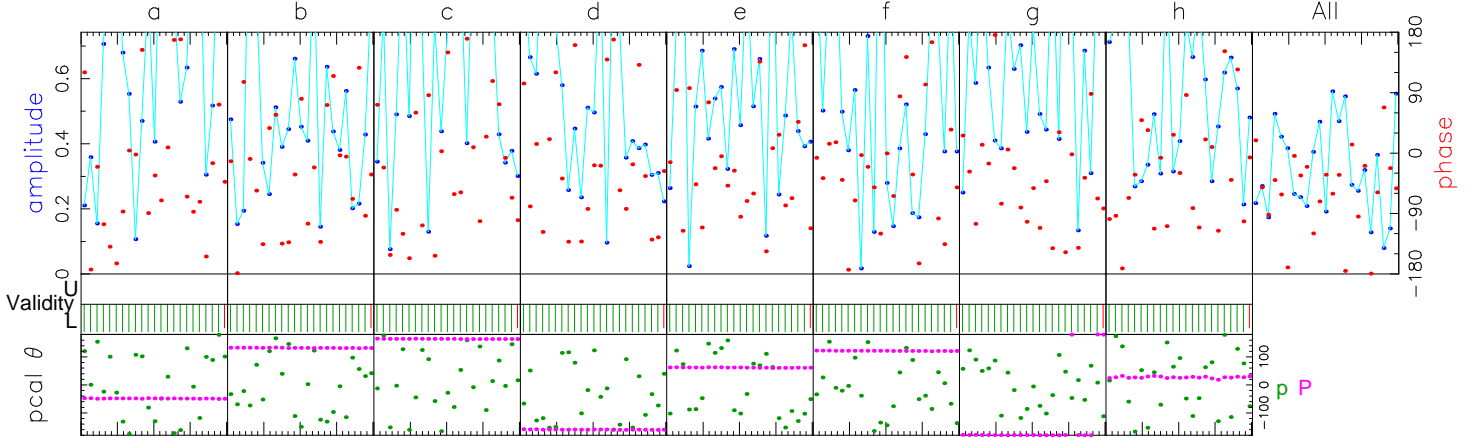
Group delay (usec)(sbd)	7.15203581164E+03	Apriori delay (usec)	7.15207002274E+03	Resid mbdelay (usec)	-2.96110E-03	+/-	3.2E-04
Sband delay (usec)	7.15203058574E+03	Apriori clock (usec)	1.9574981E+00	Resid sbdelay (usec)	-3.94370E-02	+/-	2.6E-03
Phase delay (usec)	7.15207002696E+03	Apriori clockrate (us/s)	-2.5546530E-07	Resid phdelay (usec)	4.22118E-06	+/-	5.5E-07
Delay rate (us/s)	1.92006016600E+00	Apriori rate (us/s)	1.92005968115E+00	Resid rate (us/s)	4.84843E-07	+/-	4.0E-09
Total phase (deg)	223.9	Apriori accel (us/s/s)	-3.75647795017E-05	Resid phase (deg)	310.9	+/-	17.1

ph/seg (deg)	84.3	Theor.	41.0	Amplitude	0.224 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	155.2	Search (1024X32)	0.210	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	32.4	Inc. seg. avg.	0.373	Inc. frq. avg.	0.223	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	40.7	Inc. frq. avg.	0.223	u,v (fr/asec)	-11080.698 -47.320	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

p: az 130.1 el 35.7 pa -39.2 P: az 250.4 el 15.1 pa 49.1 simultaneous interpolator  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/pP.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/pP.W.109.zpwwdj



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



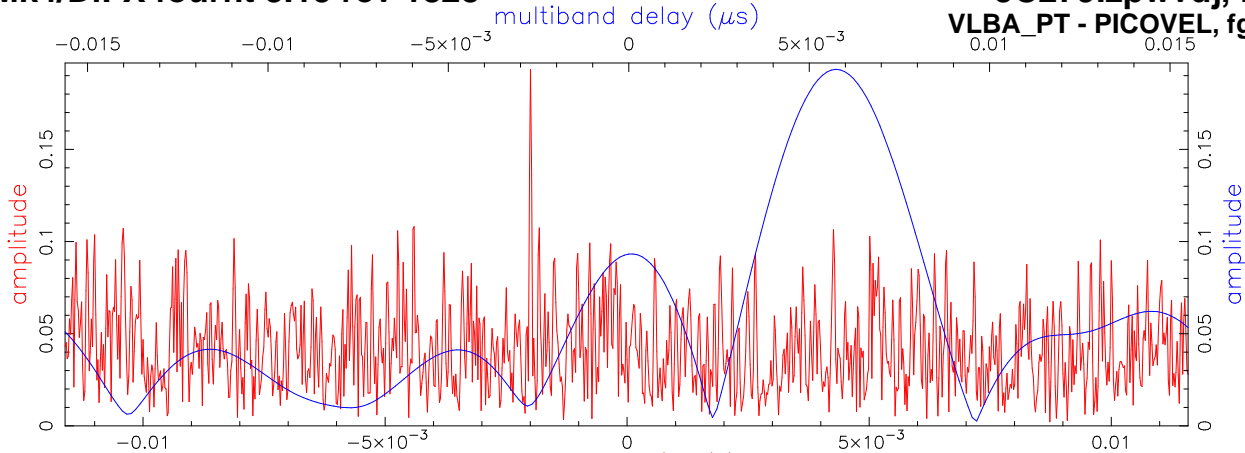
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-84.9	-21.3	-52.9	-62.9	-51.3	-33.3	-59.5	-77.4	Phase	-57.3
	0.4	0.3	0.2	0.1	0.3	0.2	0.4	0.2	Ampl.	0.2
	173.6	119.4	252.6	91.4	170.9	99.9	171.2	225.3	Sbd box	171.9
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

Group delay (usec)(sbd)	7.15239373992E+03	Apriori delay (usec)	7.15207002274E+03	Resid mbdelay (usec)	1.12172E-02	+/-	3.6E-04
Sband delay (usec)	7.15240555124E+03	Apriori clock (usec)	1.9574981E+00	Resid sbdelay (usec)	3.35528E-01	+/-	2.8E-03
Phase delay (usec)	7.15207002089E+03	Apriori clockrate (us/s)	-2.5546530E-07	Resid phdelay (usec)	-1.84616E-06	+/-	6.1E-07
Delay rate (us/s)	1.92006753742E+00	Apriori rate (us/s)	1.92005968115E+00	Resid rate (us/s)	7.85627E-06	+/-	4.4E-09
Total phase (deg)	-1584.2	Apriori accel (us/s/s)	-3.75647795017E-05	Resid phase (deg)	-1857.3	+/-	18.8

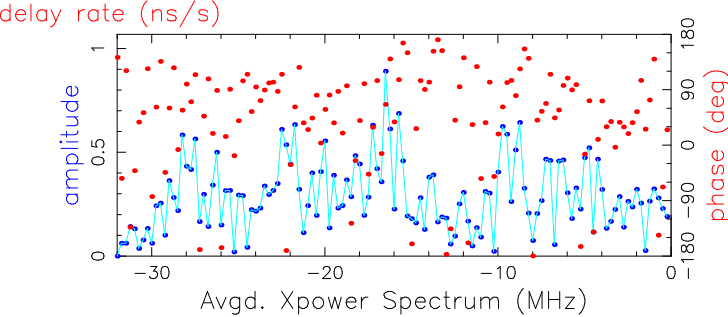
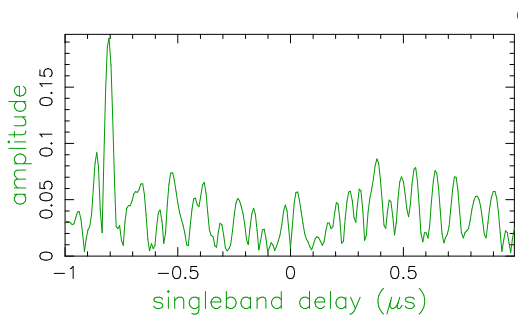
ph/seg (deg)	60.5	Theor.	45.1	Amplitude	0.248 +/- 0.041	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	89.9	Search (1024X32)	0.183	Apriori clock (usec)	0.183	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	22.9	Interp.	0.000	Apriori clockrate (us/s)	-2.5546530E-07	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	35.9	Inc. seg. avg.	0.297	Apriori rate (us/s)	1.92005968115E+00	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
		Inc. frq. avg.	0.238	Apriori accel (us/s/s)	-3.75647795017E-05	Data rate(Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00

p: az 130.1 el 35.7 pa -39.2 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11080.698 -47.320 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/pP.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/pP.W.110.zpwvdj

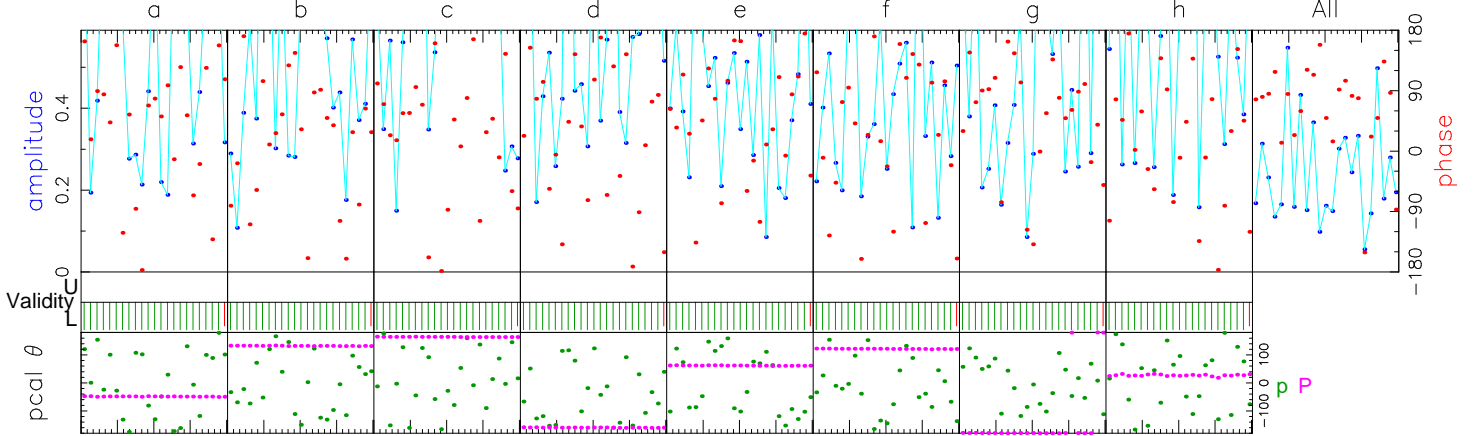


Fringe quality 0  
 SNR 5.8  
 Int time 239.675  
 Amp 0.197  
 Phase 4758.7  
 PFD 3.1e-01  
 Delays (us)  
 SBD -0.806736  
 MBD 0.005797  
 Fringe rate (Hz)  
 -0.171768  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500



Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024550  
 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



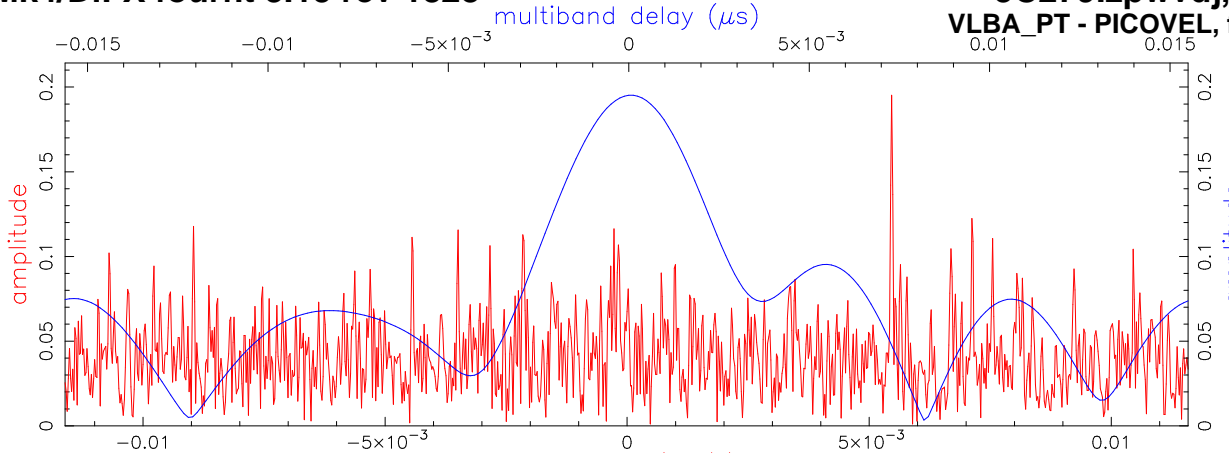
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	102.7	60.7	59.8	83.0	96.6	102.8	70.2	78.0	Phase	78.7
	0.2	0.2	0.3	0.2	0.1	0.3	0.3	0.2	Ampl.	0.2
	30.9	18.2	191.3	108.7	79.9	186.1	24.7	136.0	Sbd box	25.7
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

Group delay (usec)(sbd)	7.15126332013E+03	Apriori delay (usec)	7.15207002274E+03	Resid mbdelay (usec)	5.79740E-03	+/-	3.7E-04
Sband delay (usec)	7.15126328674E+03	Apriori clock (usec)	1.9574981E+00	Resid sbdelay (usec)	-8.06736E-01	+/-	3.0E-03
Phase delay (usec)	7.15207002527E+03	Apriori clockrate (us/s)	-2.5546530E-07	Resid phdelay (usec)	2.53656E-06	+/-	6.3E-07
Delay rate (us/s)	1.92005768710E+00	Apriori rate (us/s)	1.92005968115E+00	Resid rate (us/s)	-1.99405E-06	+/-	4.6E-09
Total phase (deg)	5031.7	Apriori accel (us/s/s)	-3.75647795017E-05	Resid phase (deg)	4758.7	+/-	19.7

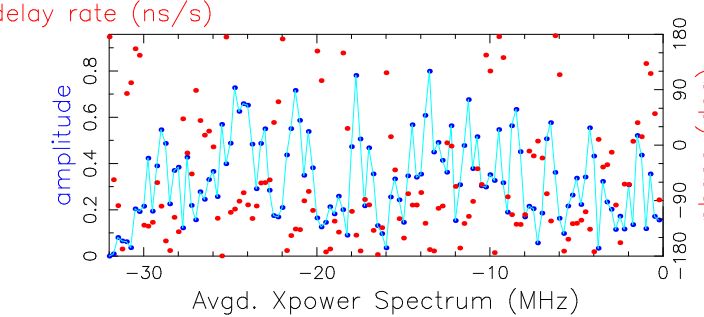
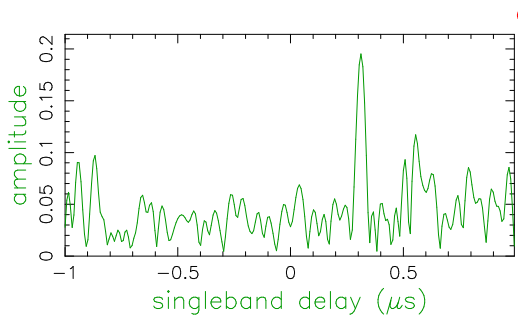
  

ph/seg (deg)	56.3	RMS	47.2	Theor.	56.3	Amplitude	0.197 +/- 0.034	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	69.6	Search (1024X32)	0.191	Interp.	0.000	Apriori rate (us/s)	1.92005968115E+00	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	19.4	Inc. seg. avg.	0.185	Inc. frq. avg.	0.182	Apriori clockrate (us/s)	-2.5546530E-07	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	32.9	Inc. frq. avg.	0.182	u,v (fr/asec)	-11080.698 -47.320	Apriori rate (us/s)	1.92005968115E+00	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016

p: az 130.1 el 35.7 pa -39.2 P: az 250.4 el 15.1 pa 49.1 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00 simultaneous interpolator

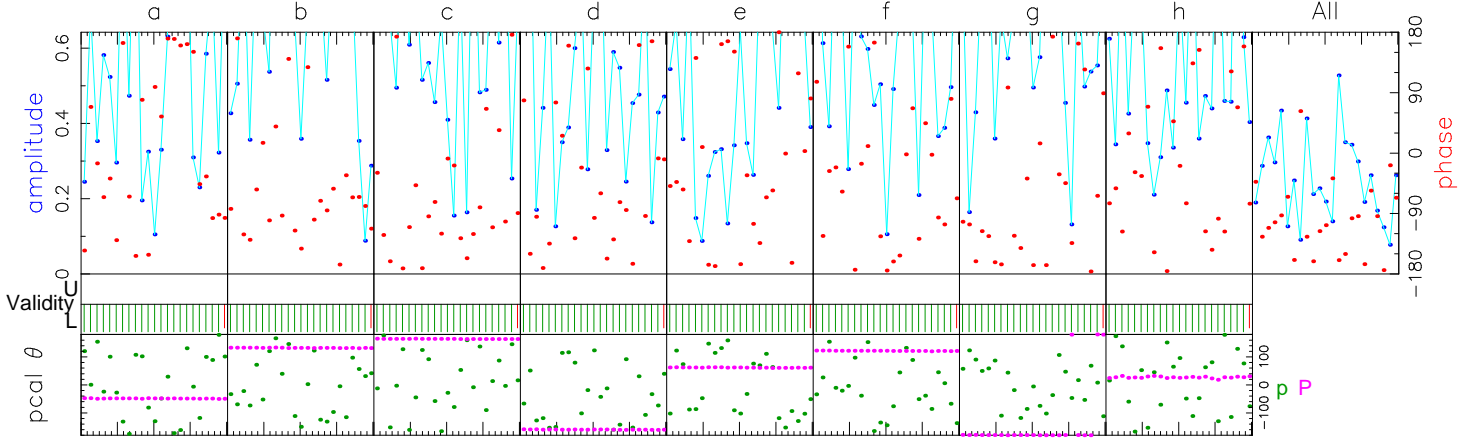


Fringe quality 0  
 SNR 5.8  
 Int time 239.675  
 Amp 0.214  
 Phase -1912.8  
 PFD 2.8e-01  
 Delays (us)  
 SBD 0.312279  
 MBD 0.000066  
 Fringe rate (Hz)  
 0.471049  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500



Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024551  
 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

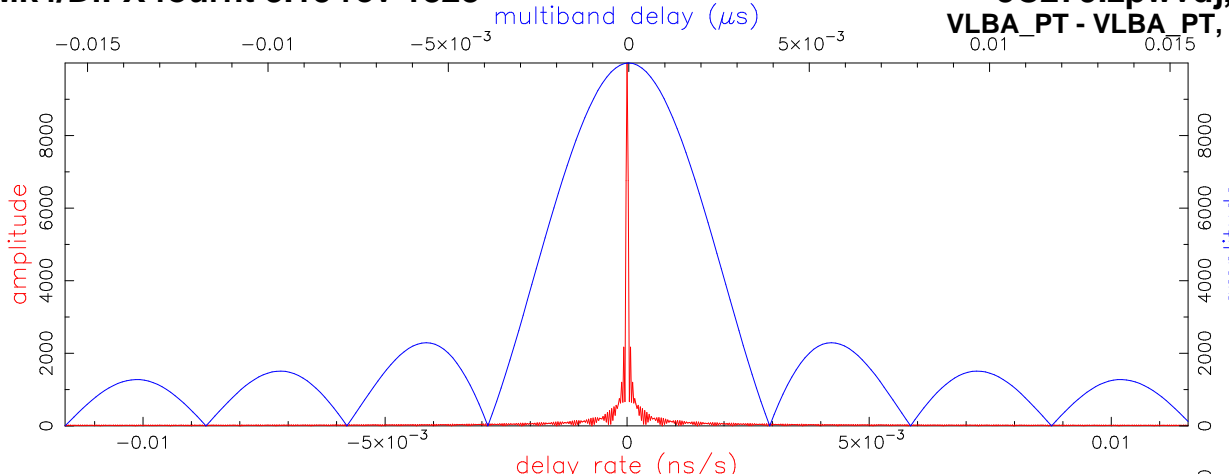


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-156.4	-86.4	-106.2	-113.1	-109.8	-39.8	-143.0	-95.4	Phase	-112.8
	0.2	0.3	0.4	0.2	0.2	0.1	0.3	0.1	Ampl.	0.2
	44.1	200.7	169.2	167.2	242.6	121.9	98.0	95.1	Sbd box	169.0
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

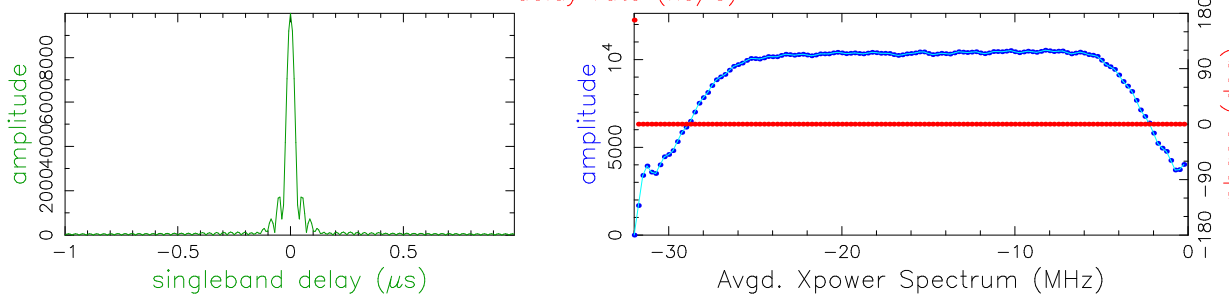
Group delay (usec)(sbd) 7.15238258911E+03 Apriori delay (usec) 7.15207002274E+03 Resid mbdelay (usec) 6.63710E-05 +/- 3.7E-04  
 Sband delay (usec) 7.15238230174E+03 Apriori clock (usec) 1.9574981E+00 Resid sbdelay (usec) 3.12279E-01 +/- 2.9E-03  
 Phase delay (usec) 7.15207001910E+03 Apriori clockrate (us/s) -2.5546530E-07 Resid phdelay (usec) -3.63749E-06 +/- 6.3E-07  
 Delay rate (us/s) 1.92006514957E+00 Apriori rate (us/s) 1.92005968115E+00 Resid rate (us/s) 5.46841E-06 +/- 4.6E-09  
 Total phase (deg) -1639.8 Apriori accel (us/s/s) -3.75647795017E-05 Resid phase (deg) -1912.8 +/- 19.6

RMS Theor. Amplitude 0.214 +/- 0.037 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 56.9 47.0 Search (1024X32) 0.190 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 65.2 82.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 39.1 27.7 Inc. seg. avg. 0.208 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 amp/frq (%) 53.2 48.4 Inc. frq. avg. 0.217 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

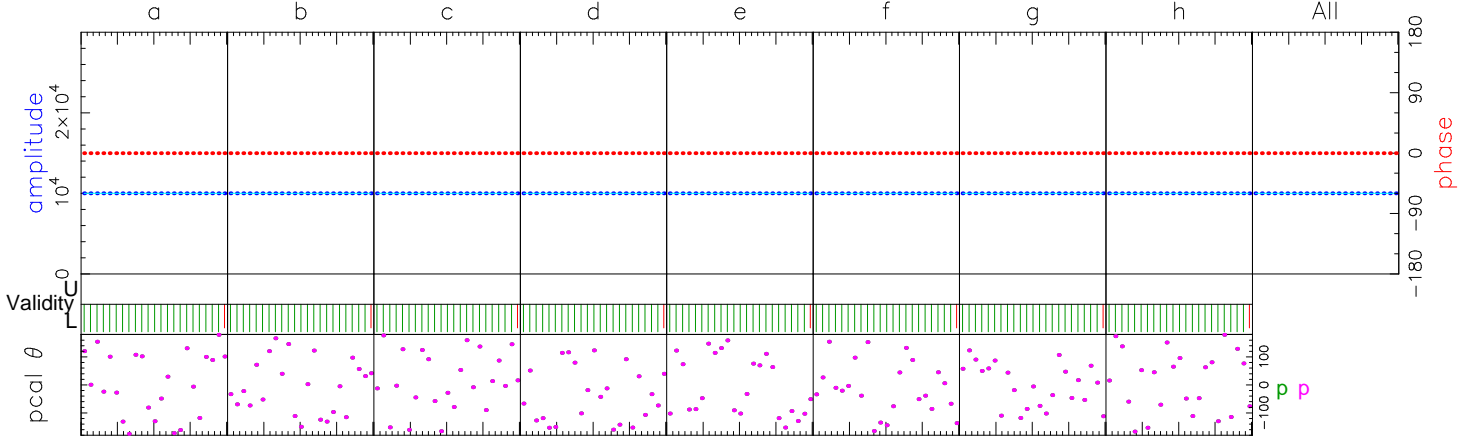
p: az 130.1 el 35.7 pa -39.2 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11080.698 -47.320 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/pP..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/pP.W.112.zpwwdj



Fringe quality 9  
 SNR 299555.3  
 Int time 239.988  
 Amp 9999.999  
 Phase 0.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.000000  
 MBD 0.000000  
 Fringe rate (Hz)  
 0.000000  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
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 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"



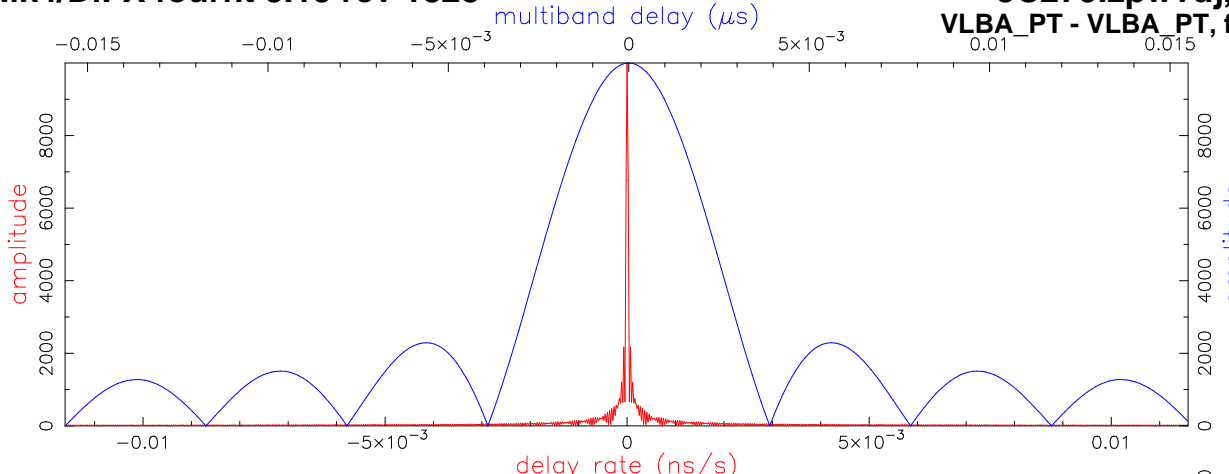
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



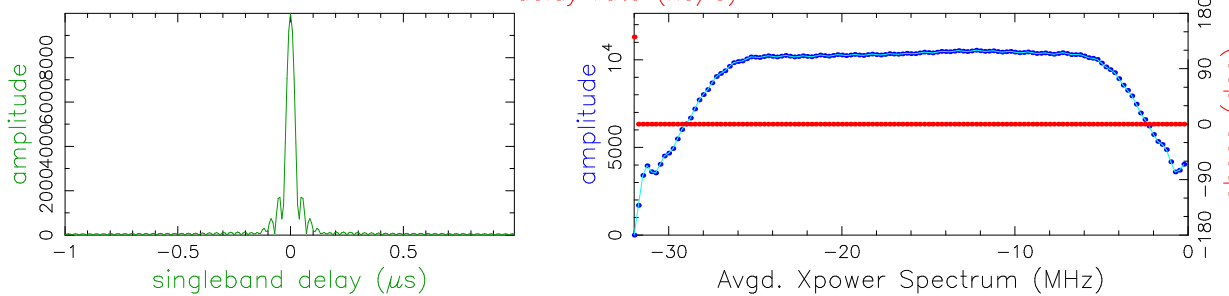
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Phase	0.0
10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	Sbd box	129.0
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
p -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC phase	
p:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
p:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
p 1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
p W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
p 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		

RMS Theor. Amplitude 9999.999 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 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  
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 dr window (ns/s) -0.012 0.012  
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.000 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00  
 p: az 130.1 el 35.7 pa -39.2 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/pp.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/pp.W.137.zpwvdj

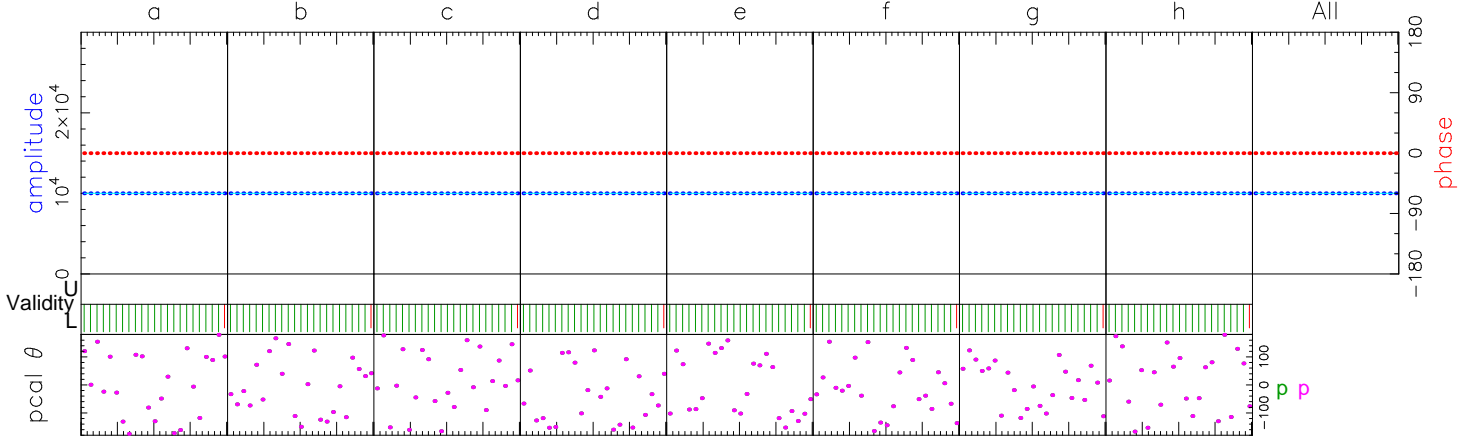




Fringe quality 9  
 SNR 299555.3  
 Int time 239.988  
 Amp 9999.999  
 Phase 0.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.000000  
 MBD 0.000000  
 Fringe rate (Hz)  
 0.000000  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024618  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

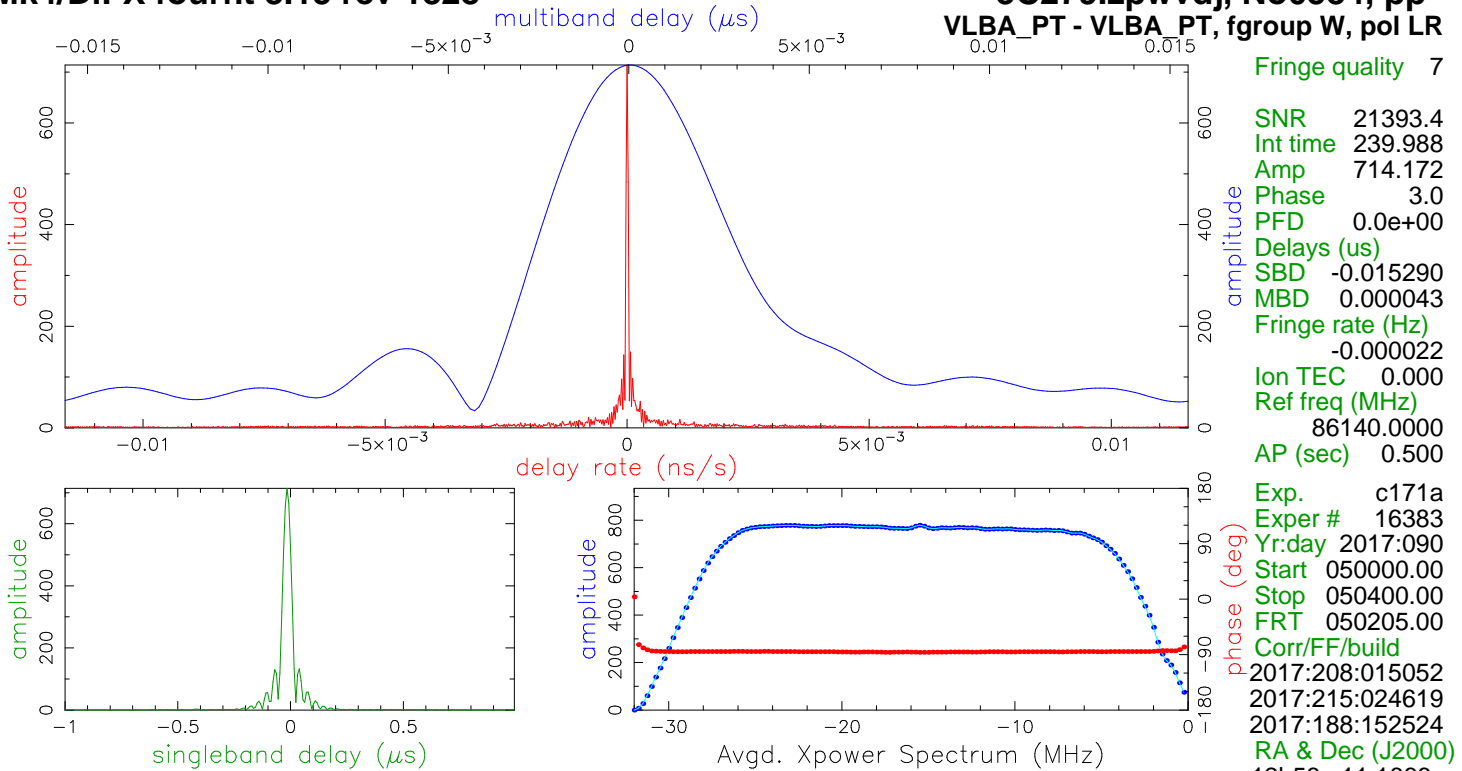


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

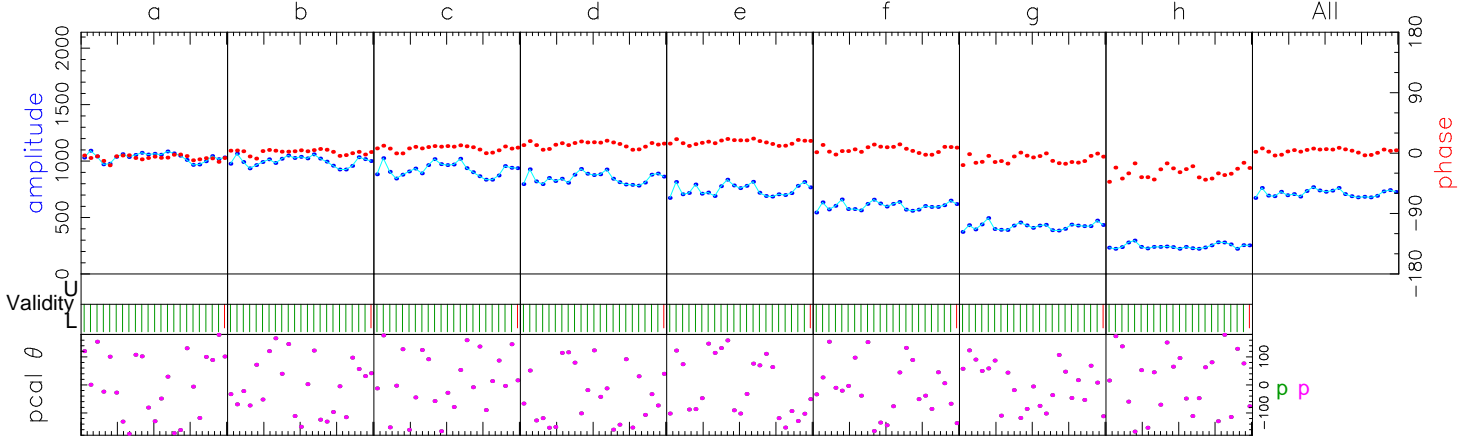


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	10000.0	10000.0
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	0.0	0.0
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	10000.0	10000.0
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

RMS Theor. Amplitude 9999.999 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 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  
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 dr window (ns/s) -0.012 0.012  
 amp/frq (%) 0.0 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

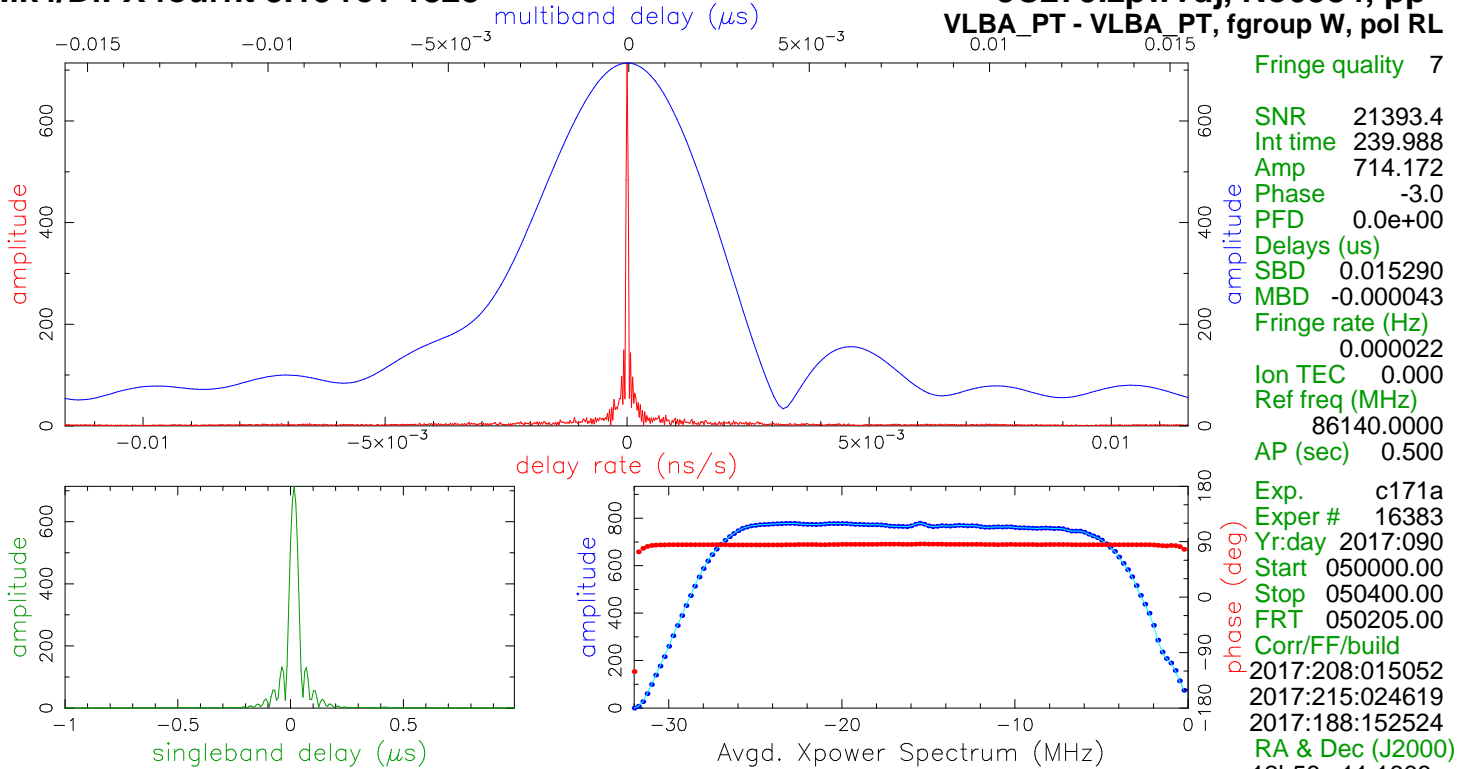


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-7.1	1.5	7.2	12.8	16.6	5.5	-8.6	-28.6	Phase	3.0
1033.0	997.7	922.9	846.8	745.5	600.7	419.7	243.7	Ampl.	726.3
127.1	127.0	127.2	127.1	127.0	126.8	126.8	126.5	Sbd box	127.0
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
p	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000		
p	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	Chan ids	
p	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	4.30625000000E-05	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	4.30625E-05	+/-	1.0E-07		
Sband delay (usec)	-1.52895000000E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.52895E-02	+/-	8.1E-07		
Phase delay (usec)	9.55140682582E-08	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	9.55141E-08	+/-	1.7E-10		
Delay rate (us/s)	-2.55398188995E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-2.55398E-10	+/-	1.2E-12		
Total phase (deg)	3.0	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	3.0	+/-	0.0		

ph/seg (deg)	3.3	0.0	Search (1024X32)	713.946	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	4.1	0.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
ph/frq (deg)	16.0	0.0	Inc. seg. avg.	715.267	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
amp/frq (%)	37.2	0.0	Inc. frq. avg.	726.250	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
					Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			

p: az 130.1 el 35.7 pa -39.2 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/pp.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/pp.W.139.zpwvdj

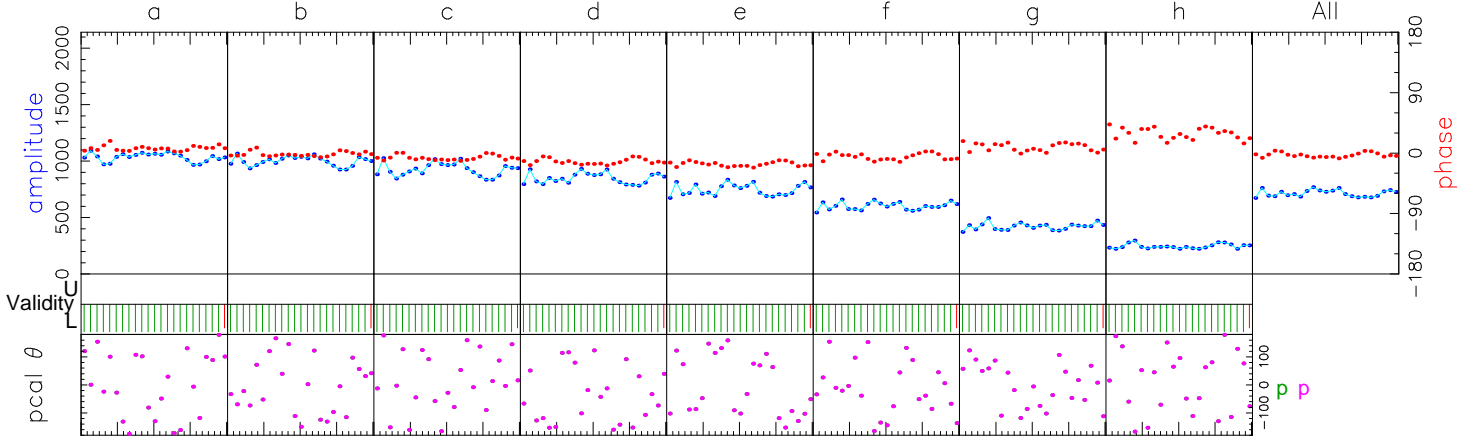


Fringe quality 7

SNR 21393.4  
Int time 239.988  
Amp 714.172  
Phase -3.0  
PFD 0.0e+00  
Delays (us)  
SBD 0.015290  
MBD -0.000043  
Fringe rate (Hz) 0.000022  
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  
2017:215:024619  
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

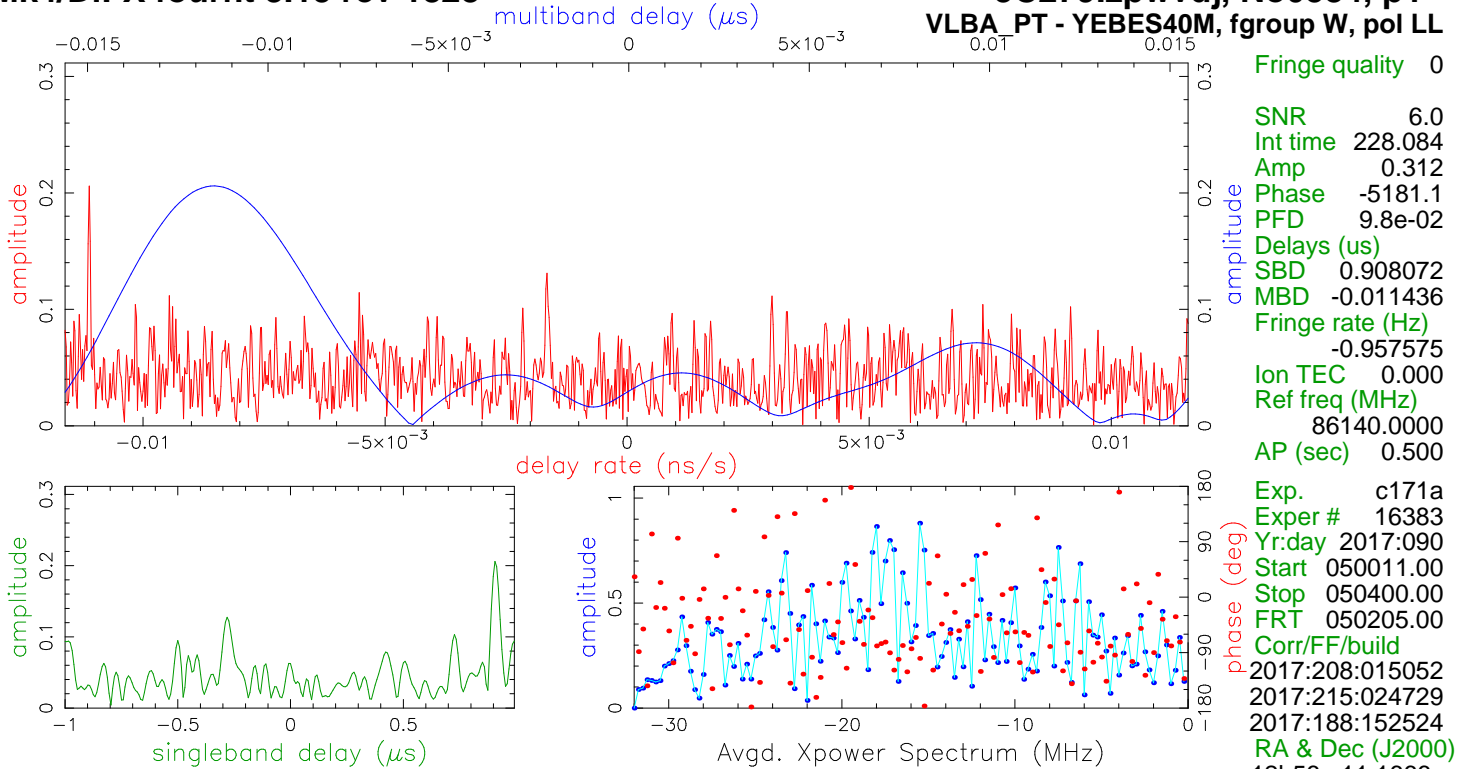


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	7.1	-1.5	-7.2	-12.8	-16.6	-5.5	8.6	28.6	Phase	-3.0
	1033.0	997.7	922.9	846.8	745.5	600.7	419.7	243.7	Ampl.	726.3
	130.9	131.0	130.8	130.9	131.0	131.2	131.2	131.5	Sbd box	131.0
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	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)	-4.30625000000E-05		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-4.30625E-05	+/- 1.0E-07
Sband delay (usec)	1.52895000000E-02		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		1.52895E-02	+/- 8.1E-07
Phase delay (usec)	-9.55140682362E-08		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-9.55141E-08	+/- 1.7E-10
Delay rate (us/s)	2.55398188995E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		2.55398E-10	+/- 1.2E-12
Total phase (deg)	-3.0		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-3.0	+/- 0.0

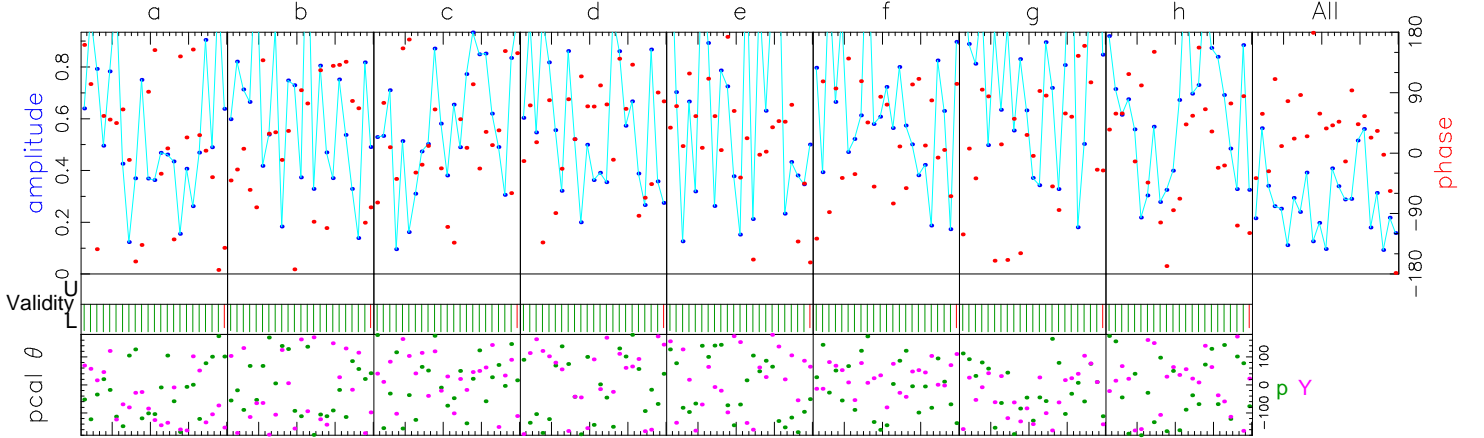
RMS Theor. Amplitude 714.172 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 3.3 0.0 Search (1024X32) 713.946 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 4.1 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 16.0 0.0 Inc. seg. avg. 715.267 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 (%) 37.2 0.0 Inc. frq. avg. 726.250 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

p: az 130.1 el 35.7 pa -39.2 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/pp.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/pp.W.140.zpwvdj



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

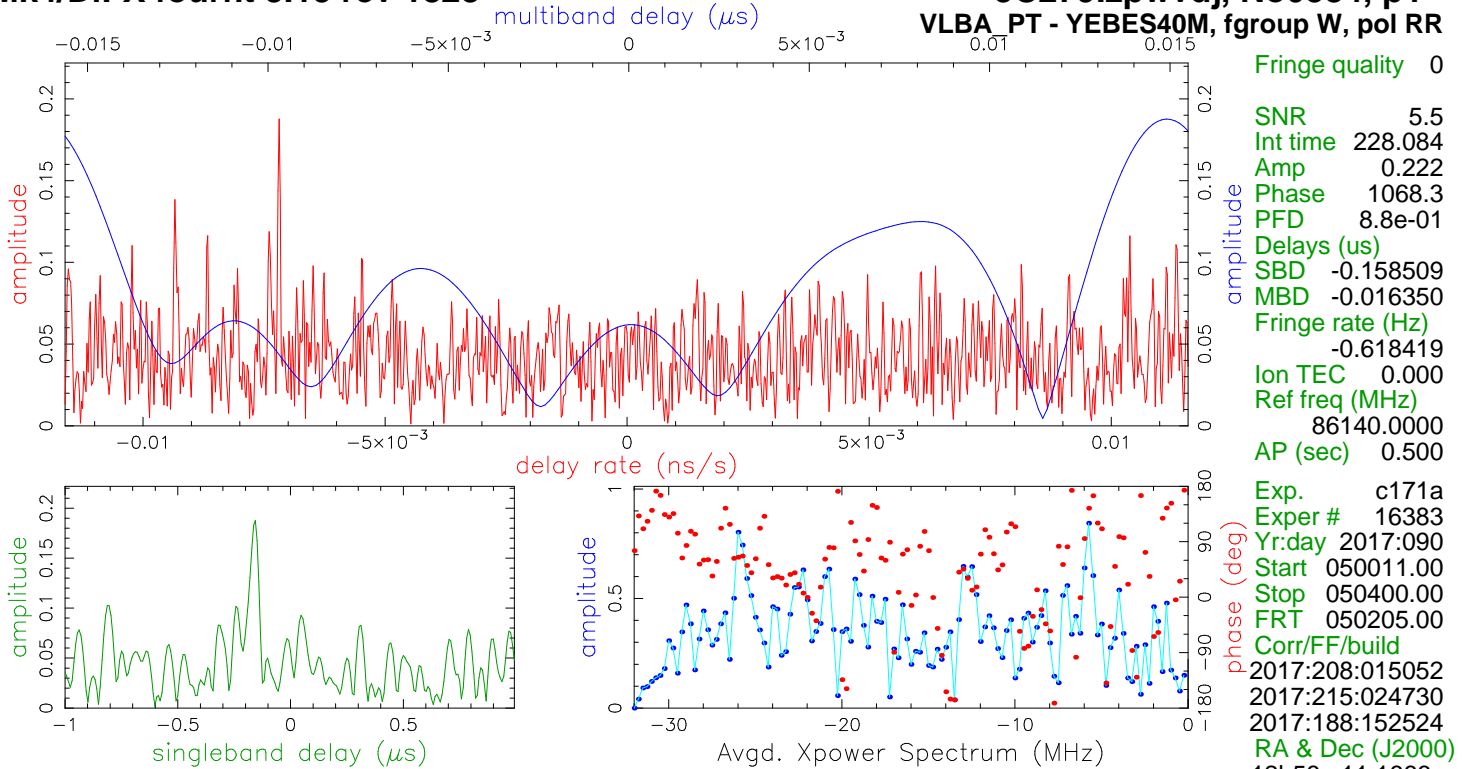


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
90.2	25.6	18.6	52.7	40.4	22.7	38.9	45.0	Phase	38.9
0.1	0.2	0.3	0.3	0.6	0.3	0.3	0.4	Ampl.	0.3
98.3	26.9	221.9	114.3	243.6	223.5	93.1	221.5	Sbd box	245.2
U/L 0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
p -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
p 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y 1000	1000	1000	1000	1000	1000	1000	1000		
p W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Y W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	7.64928157854E+03		Apriori delay (usec)	7.64838676413E+03		Resid mbdelay (usec)	-1.14356E-02	+/-	3.6E-04
Sband delay (usec)	7.64929483563E+03		Apriori clock (usec)	-1.3901184E+00		Resid sbdelay (usec)	9.08072E-01	+/-	2.9E-03
Phase delay (usec)	7.64838676539E+03		Apriori clockrate (us/s)	-1.9546529E-07		Resid phdelay (usec)	1.25518E-06	+/-	6.1E-07
Delay rate (us/s)	1.86875493112E+00		Apriori rate (us/s)	1.86876604762E+00		Resid rate (us/s)	-1.11165E-05	+/-	4.6E-09
Total phase (deg)	-4870.6		Apriori accel (us/s/s)	-3.96788240935E-05		Resid phase (deg)	-5181.1	+/-	19.0

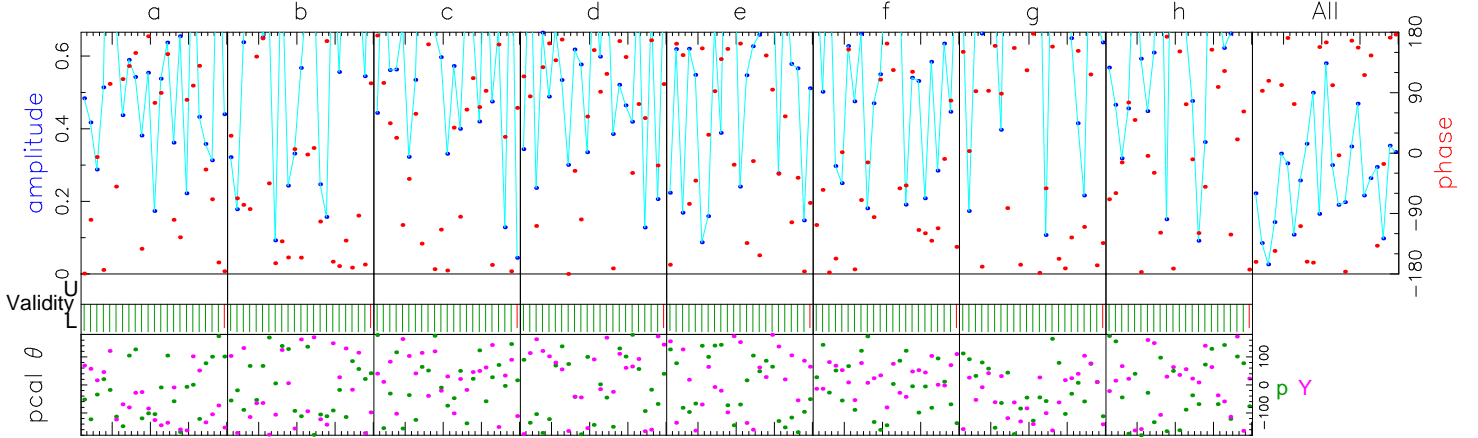
ph/seg (deg)	RMS 57.3	Theor. 45.5	Amplitude 57.3	0.312 +/- 0.052	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	74.5	79.5	Search (1024X32)	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
ph/frq (deg)	24.9	26.9	Interp.	0.323	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
amp/frq (%)	44.4	46.9	Inc. seg. avg.	0.291	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
			Inc. frq. avg.		Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			

p: az 130.1 el 35.7 pa -39.2 Y: az 249.7 el 13.7 pa 45.9 u,v (fr/asec) -10787.080 -443.104 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/pY..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/pY.W.205.zpwvdj



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



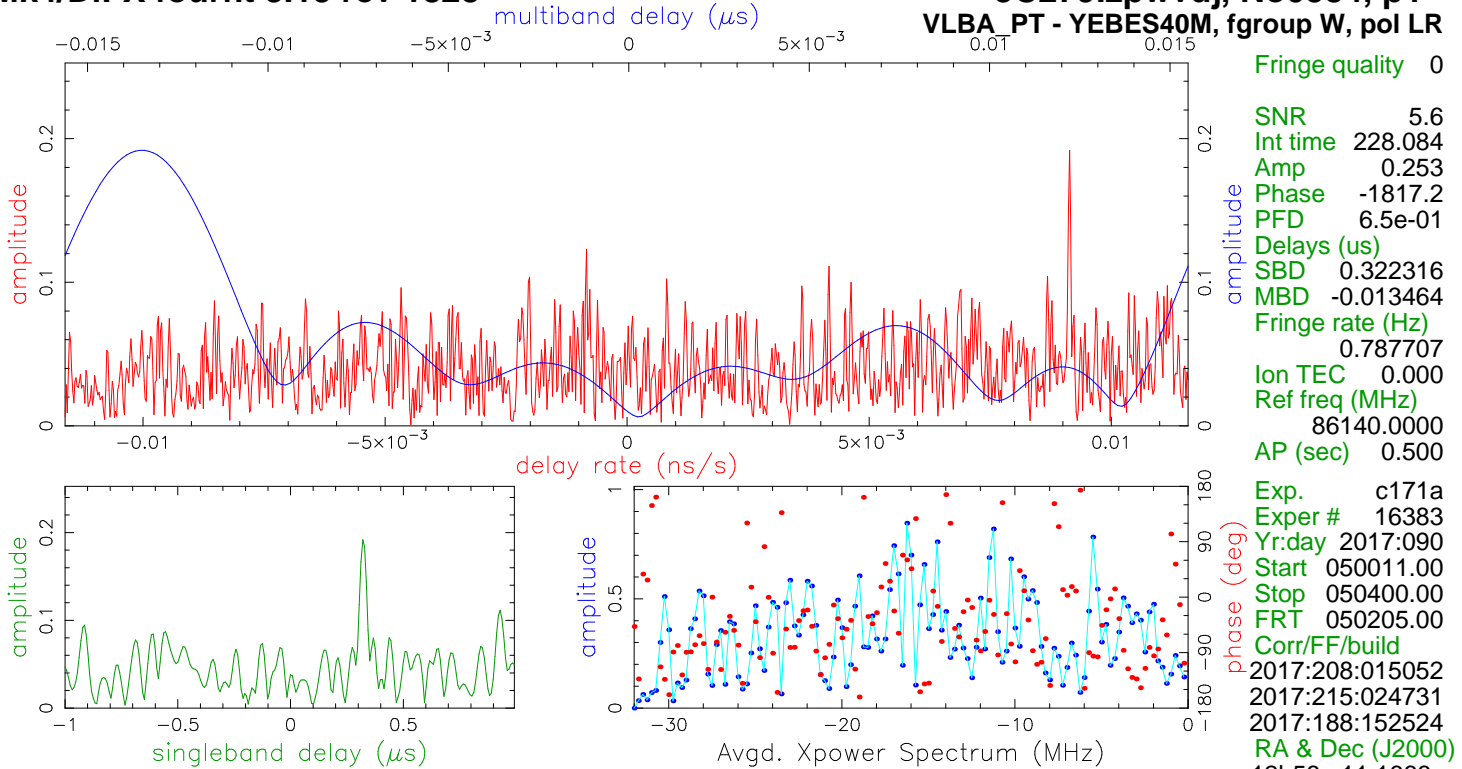
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
155.4	-132.9	143.1	128.1	156.7	-141.3	172.3	142.0	Phase	168.3
0.3	0.3	0.2	0.3	0.1	0.2	0.6	0.1	Ampl.	0.2
132.7	9.1	162.2	32.6	192.3	118.7	108.7	203.4	Sbd box	108.7
U/L 0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
p -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
p 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y 1000	1000	1000	1000	1000	1000	1000	1000		
p 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)	7.64821416438E+03		Apriori delay (usec)	7.64838676413E+03		Resid mbdelay (usec)	-1.63497E-02	+/-	3.9E-04
Sband delay (usec)	7.64822825463E+03		Apriori clock (usec)	-1.3901184E+00		Resid sbdelay (usec)	-1.58509E-01	+/-	3.1E-03
Phase delay (usec)	7.64838676956E+03		Apriori clockrate (us/s)	-1.9546529E-07		Resid phdelay (usec)	5.42629E-06	+/-	6.7E-07
Delay rate (us/s)	1.86875886838E+00		Apriori rate (us/s)	1.86876604762E+00		Resid rate (us/s)	-7.17923E-06	+/-	5.1E-09
Total phase (deg)		1018.8	Apriori accel (us/s/s)	-3.96788240935E-05		Resid phase (deg)	1068.3	+/-	20.8

ph/seg (deg)	68.2	Theor. 49.9	Amplitude Search (1024X32)	0.222 +/- 0.040	0.179	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	82.6	87.0	Interp.	0.000	0.000E+00	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
ph/frq (deg)	39.3	29.4	Inc. seg. avg.	0.228	64	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
amp/frq (%)	65.9	51.3	Inc. frq. avg.	0.233	1024	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			

p: az 130.1 el 35.7 pa -39.2 Y: az 249.7 el 13.7 pa 45.9 u,v (fr/asec) -10787.080 -443.104 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/pY..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/pY.W.206.zpwwdj





Fringe quality 0

SNR 5.6

Int time 228.084

Amp 0.253

Phase -1817.2

PFD 6.5e-01

Delays (us)

SBD 0.322316

MBD -0.013464

Fringe rate (Hz) 0.787707

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

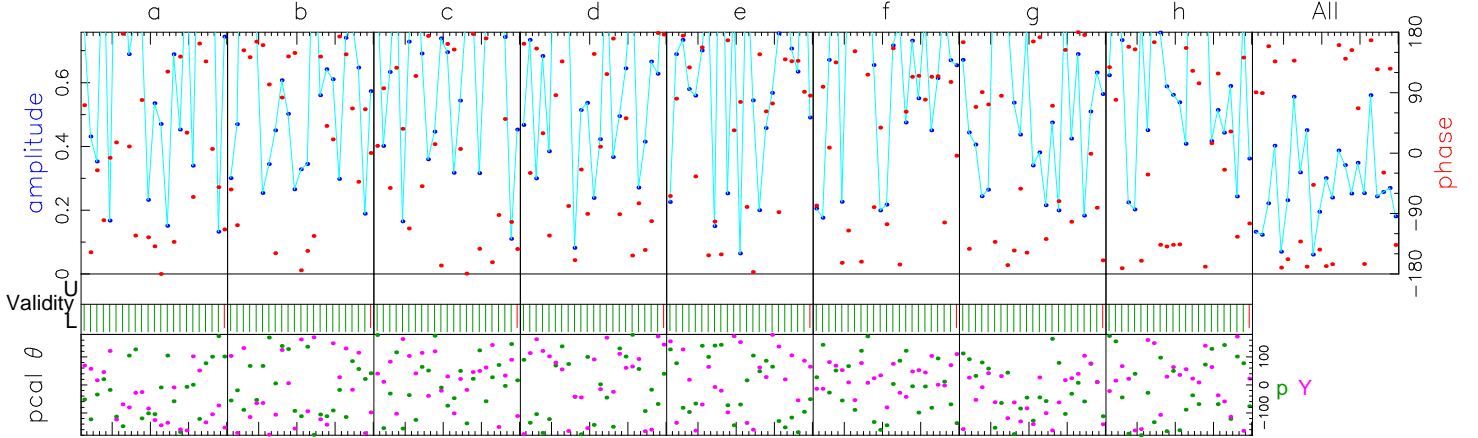
2017:208:015052

2017:215:024731

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
-164.6	148.5	179.1	-172.6	148.5	141.5	-173.6	159.6	Phase	162.8
0.1	0.3	0.3	0.2	0.3	0.3	0.3	0.4	Ampl.	0.2
206.7	54.8	163.8	11.4	168.2	139.7	254.1	171.2	Sbd box	170.3
U/L 0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
p -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
p 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y 1000	1000	1000	1000	1000	1000	1000	1000		
p 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)	7.64871705028E+03	Apriori delay (usec)	7.64838676413E+03	Resid mbdelay (usec)	-1.34639E-02	+/-	3.9E-04		
Sband delay (usec)	7.64870908063E+03	Apriori clock (usec)	-1.3901184E+00	Resid sbdelay (usec)	3.22316E-01	+/-	3.1E-03		
Phase delay (usec)	7.64838676938E+03	Apriori clockrate (us/s)	-1.9546529E-07	Resid phdelay (usec)	5.24919E-06	+/-	6.6E-07		
Delay rate (us/s)	1.86877519211E+00	Apriori rate (us/s)	1.86876604762E+00	Resid rate (us/s)	9.14450E-06	+/-	5.0E-09		
Total phase (deg)	-1866.7	Apriori accel (us/s/s)	-3.96788240935E-05	Resid phase (deg)	-1817.2	+/-	20.3		

RMS 63.4 Theor. 48.7 Amplitude 0.253 +/- 0.045 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 63.4 Search (1024X32) 0.184 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

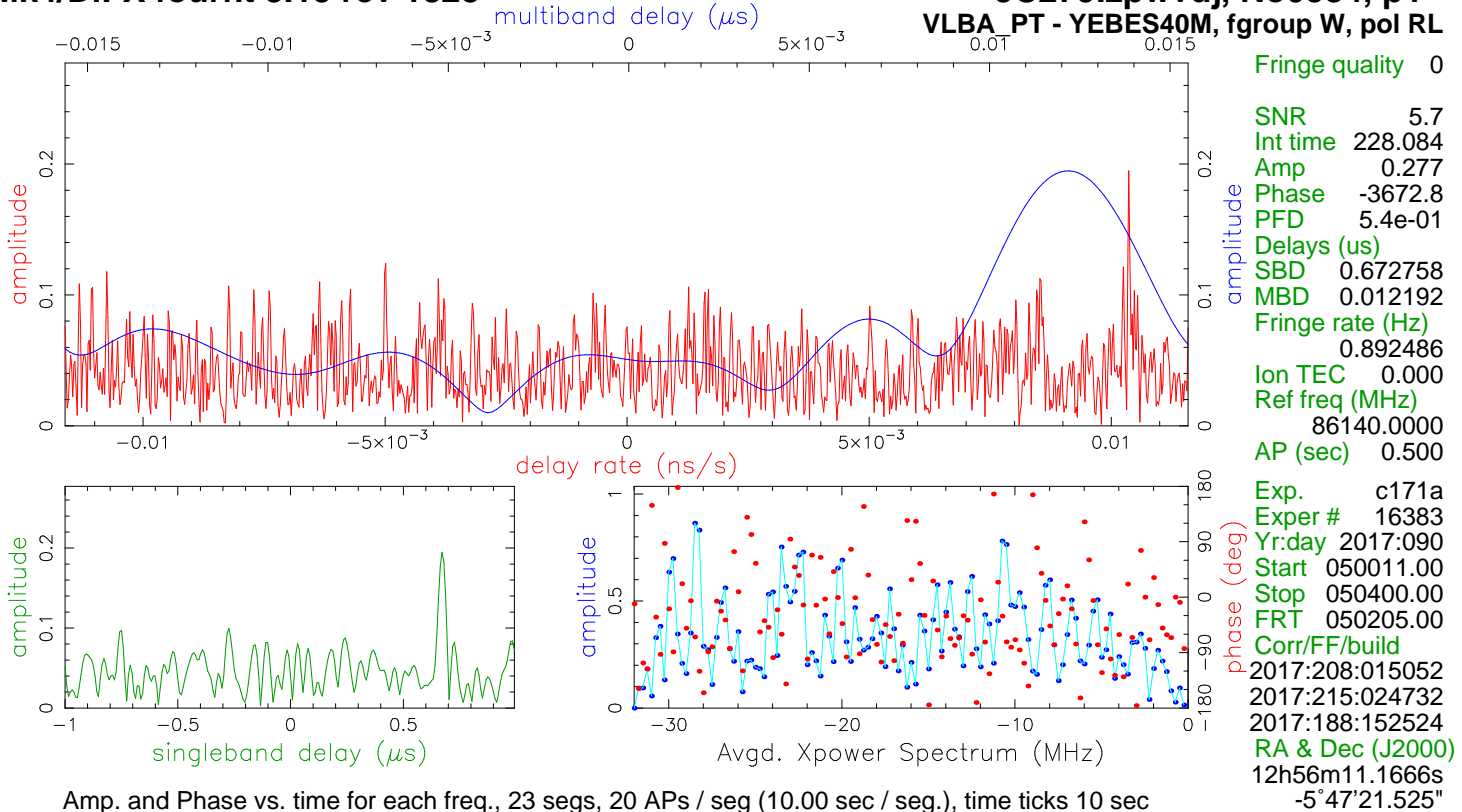
amp/seg (%) 80.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

ph/frq (deg) 23.7 Inc. seg. avg. 0.268 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012

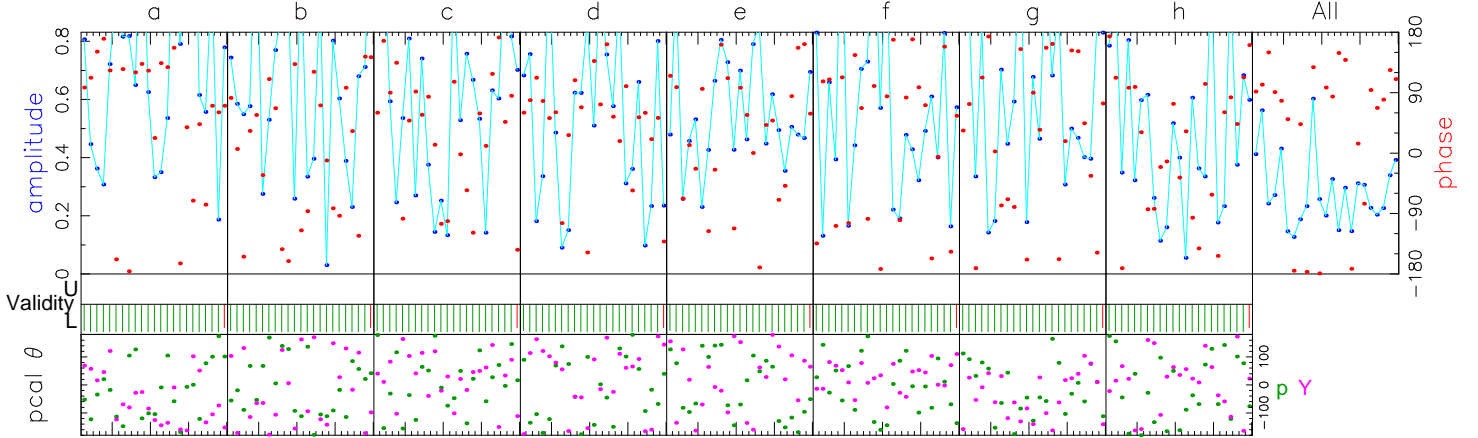
amp/frq (%) 41.0 Inc. frq. avg. 0.234 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

p: az 130.1 el 35.7 pa -39.2 Y: az 249.7 el 13.7 pa 45.9 u,v (fr/asec) -10787.080 -443.104 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/pY.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/pY.W.207.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
126.3	135.9	87.6	71.6	79.6	126.7	137.3	102.0	Phase	107.2
0.5	0.2	0.3	0.5	0.2	0.4	0.3	0.2	Ampl.	0.3
158.1	183.8	255.5	214.4	115.9	185.6	77.8	114.6	Sbd box	215.1
U/L 0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
p -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
p 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y 1000	1000	1000	1000	1000	1000	1000	1000		
p W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Y W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	7.64905520606E+03		Apriori delay (usec)	7.64838676413E+03		Resid mbdelay (usec)	1.21919E-02	+/-	3.8E-04
Sband delay (usec)	7.64905952213E+03		Apriori clock (usec)	-1.3901184E+00		Resid sbdelay (usec)	6.72758E-01	+/-	3.0E-03
Phase delay (usec)	7.64838676759E+03		Apriori clockrate (us/s)	-1.9546529E-07		Resid phdelay (usec)	3.45682E-06	+/-	6.5E-07
Delay rate (us/s)	1.86877640849E+00		Apriori rate (us/s)	1.86876604762E+00		Resid rate (us/s)	1.03609E-05	+/-	4.9E-09
Total phase (deg)	-3722.3		Apriori accel (us/s/s)	-3.96788240935E-05		Resid phase (deg)	-3672.8	+/-	20.1

ph/seg (deg) 59.6 48.3 Search (1024X32) 0.191 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 78.7 84.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 28.6 28.5 Inc. seg. avg. 0.301 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 44.7 49.7 Inc. frq. avg. 0.273 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 p: az 130.1 el 35.7 pa -39.2 Y: az 249.7 el 13.7 pa 45.9 u,v (fr/asec) -10787.080 -443.104 ion window (TEC) 0.00 0.00  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/pY..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/pY.W.208.zpwwdj simultaneous interpolator