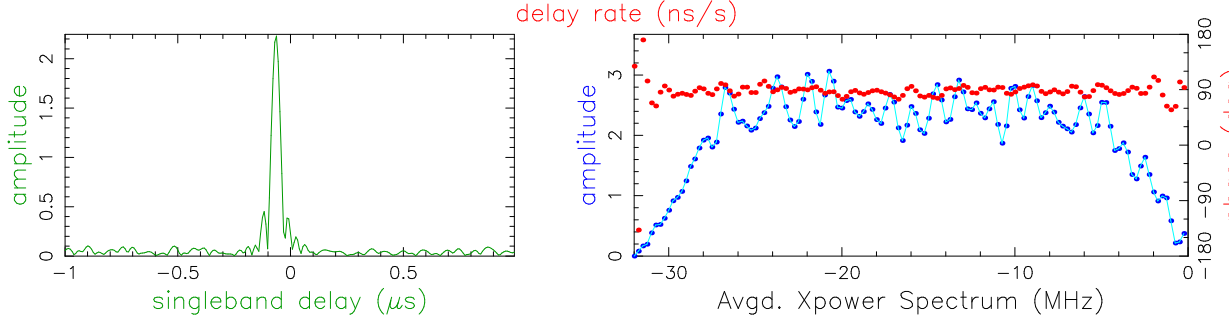
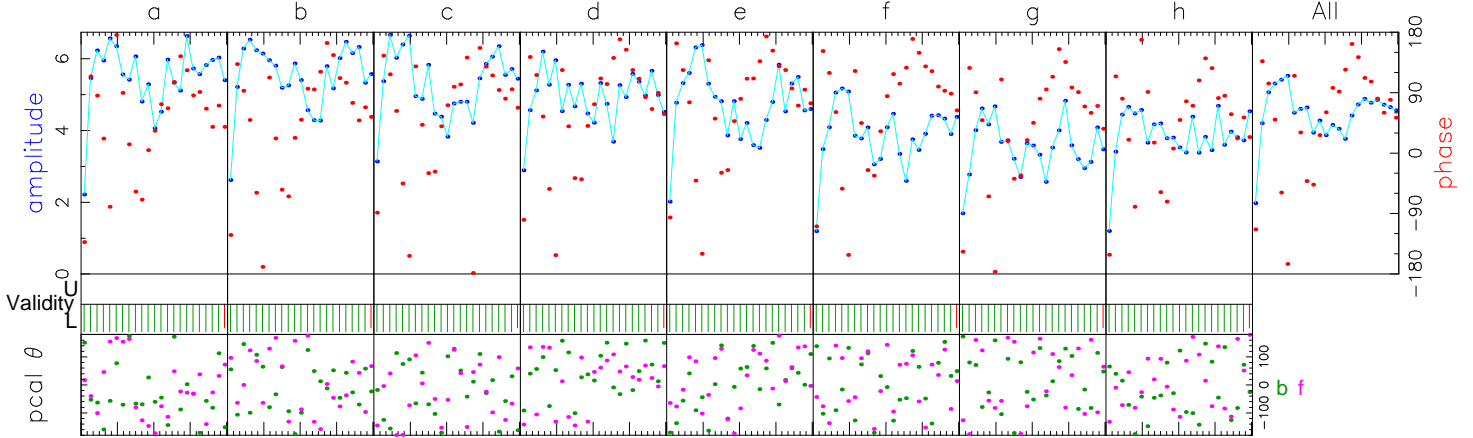


Fringe quality 4  
 SNR 67.3  
 Int time 239.986  
 Amp 2.248  
 Phase 447.4  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.064902  
 MBD -0.002490  
 Fringe rate (Hz) 0.002528  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00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



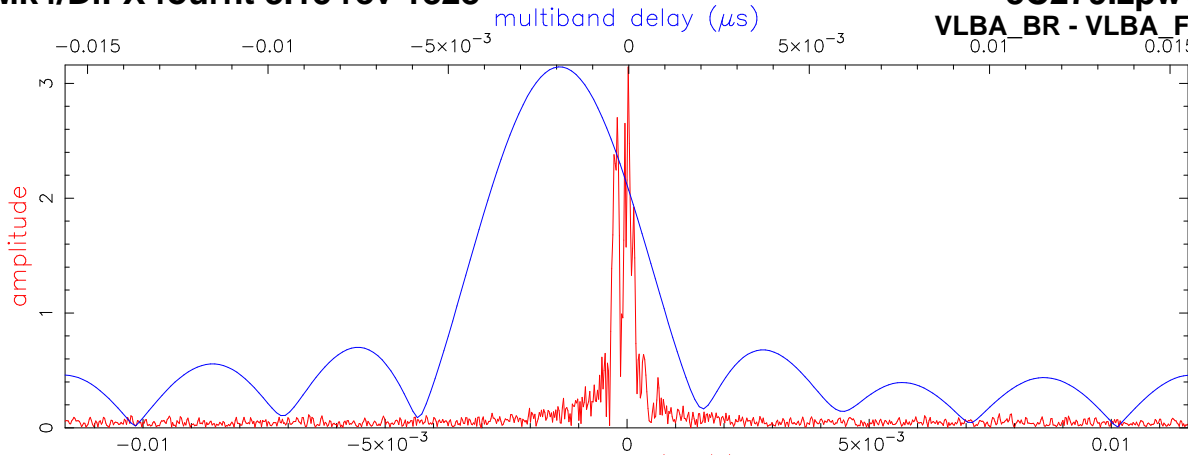
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



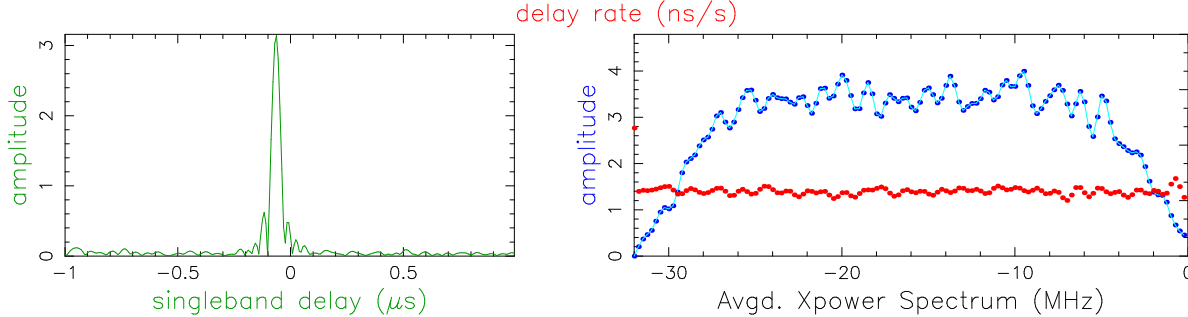
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:f	0:0	0:0	0:0	0:0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

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

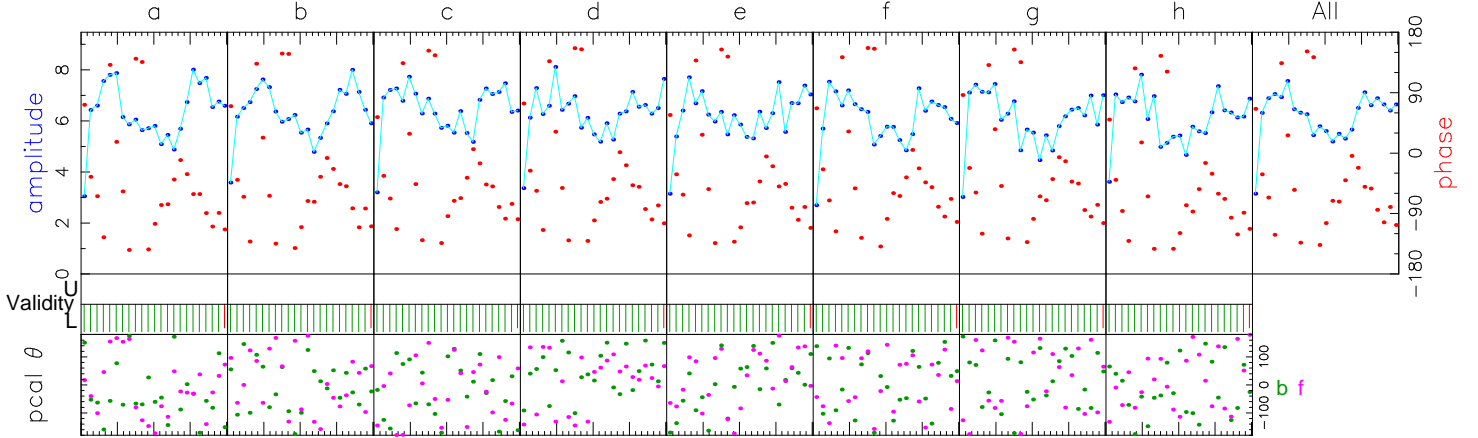
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bf..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bf.W.1.zpwvdj simultaneous interpolator



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



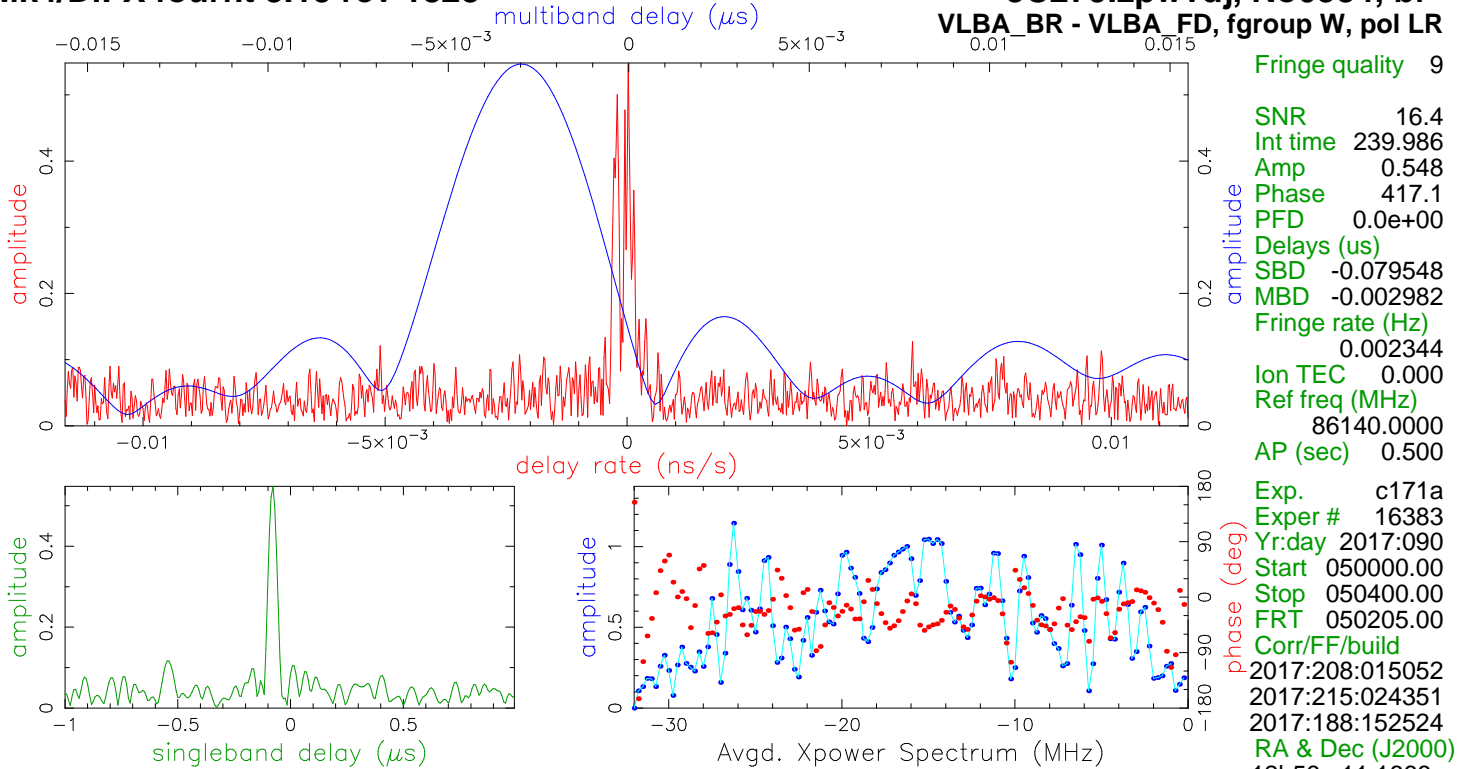
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-80.7	-78.0	-70.1	-72.3	-76.6	-71.2	-69.9	-85.1		-75.5
	3.2	3.1	3.3	3.2	3.2	3.2	2.9	3.1	Ampl.	3.2
	120.7	120.7	120.9	120.8	120.8	120.9	120.5	120.7	Sbd box	120.8
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
f	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.48143437680E+03		Apriori delay (usec)		-6.48136996063E+03		Resid mbdelay (usec)		-1.91617E-03	+/- 2.3E-05
Sband delay (usec)	-6.48143439213E+03		Apriori clock (usec)		-3.7104468E+00		Resid sbdelay (usec)		-6.44315E-02	+/- 1.8E-04
Phase delay (usec)	-6.48136996306E+03		Apriori clockrate (us/s)		4.3343438E-07		Resid phdelay (usec)		-2.43460E-06	+/- 3.9E-08
Delay rate (us/s)	4.46636982863E-02		Apriori rate (us/s)		4.46636703100E-02		Resid rate (us/s)		2.79763E-08	+/- 2.8E-10
Total phase (deg)	137.5		Apriori accel (us/s/s)		3.17265815557E-05		Resid phase (deg)		284.5	+/- 1.2

ph/seg (deg) 71.1 2.9 RMS Theor. Amplitude 3.160 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 99.9 5.1 Search (1024X32) 3.086 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 6.0 1.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 3.2 3.0 Inc. seg. avg. 6.177 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 Inc. frq. avg. 3.156 u,v (fr/asec) -233.589 1814.633 ion window (TEC) 0.00 0.00

b: az 125.4 el 20.4 pa -33.2 f: az 132.0 el 40.8 pa -39.8 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bf..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/bf.W.2.zpwvdj



Fringe quality 9

SNR 16.4

Int time 239.986

Amp 0.548

Phase 417.1

PFD 0.0e+00

Delays (us)

SBD -0.079548

MBD -0.002982

Fringe rate (Hz) 0.002344

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:090

Start 050000.00

Stop 050400.00

FRT 050205.00

Corr/FF/build

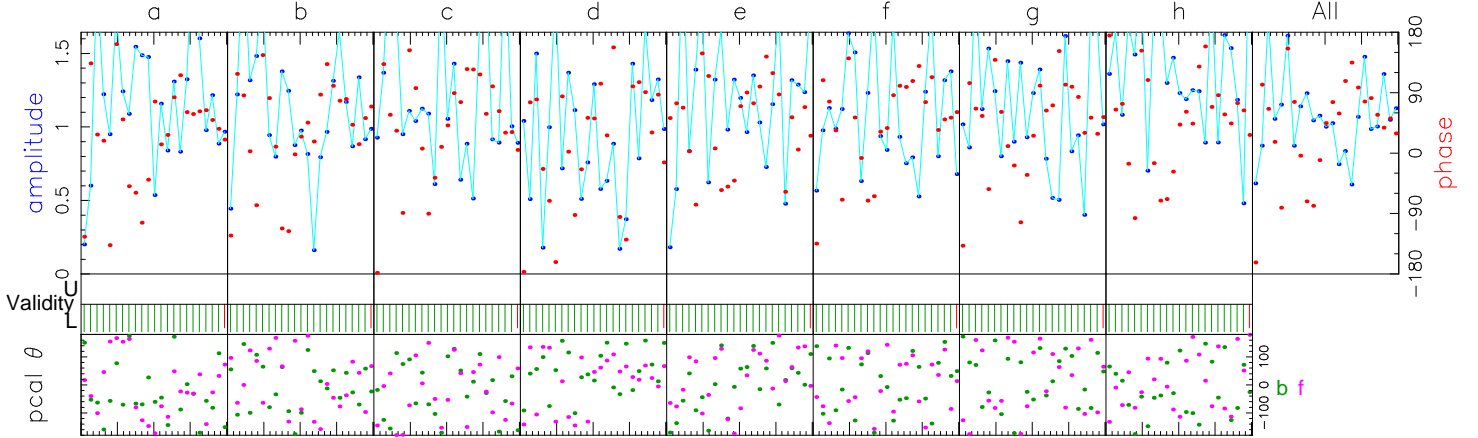
2017:208:015052

2017:215:024351

2017:188:152524

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

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



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	57.1
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Ampl.	0.5
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	118.8
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b	1000	1000	1000	1000	1000	1000	1000	1000	ManI PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
f	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
Group delay (usec)(sbd)	-6.48143544242E+03		Apriori delay (usec)		-6.48136996063E+03		Resid mbdelay (usec)		-2.98180E-03	+/- 1.3E-04
Sband delay (usec)	-6.48144950813E+03		Apriori clock (usec)		-3.7104468E+00		Resid sbdelay (usec)		-7.95475E-02	+/- 1.0E-03
Phase delay (usec)	-6.48136995878E+03		Apriori clockrate (us/s)		4.3343438E-07		Resid phdelay (usec)		1.84153E-06	+/- 2.2E-07
Delay rate (us/s)	4.46636975230E-02		Apriori rate (us/s)		4.46636703100E-02		Resid rate (us/s)		2.72130E-08	+/- 1.6E-09
Total phase (deg)	270.1		Apriori accel (us/s/s)		3.17265815557E-05		Resid phase (deg)		417.1	+/- 7.0

ph/seg (deg) 68.9 16.7 Search (1024X32) 0.538 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

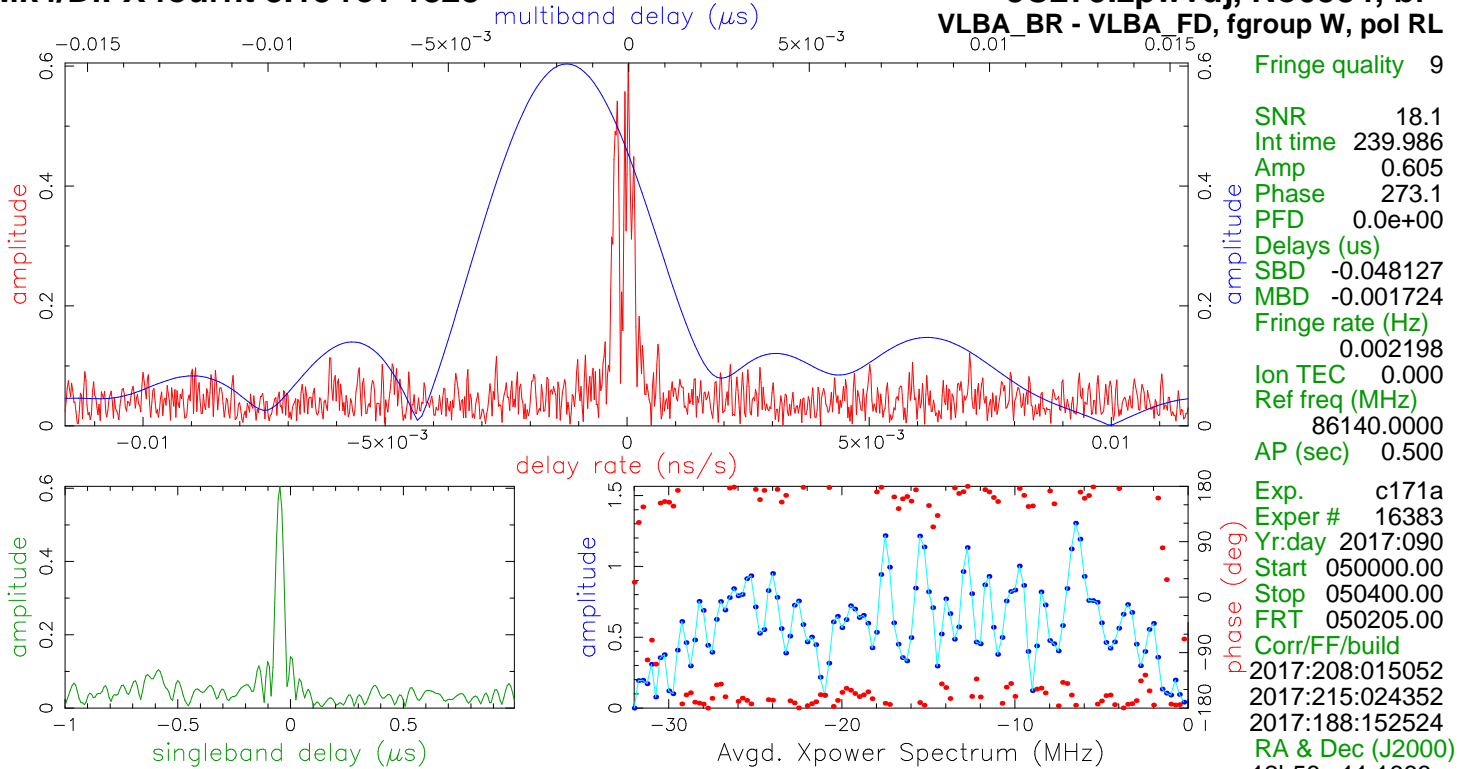
amp/seg (%) 108.3 29.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 13.0 9.9 Inc. seg. avg. 1.031 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 17.9 17.2 Inc. frq. avg. 0.548 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012

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

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



Fringe quality 9

SNR 18.1

Int time 239.986

Amp 0.605

Phase 273.1

PFD 0.0e+00

Delays (us)

SBD -0.048127

MBD -0.001724

Fringe rate (Hz) 0.002198

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:090

Start 050000.00

Stop 050400.00

FRT 050205.00

Corr/FF/build

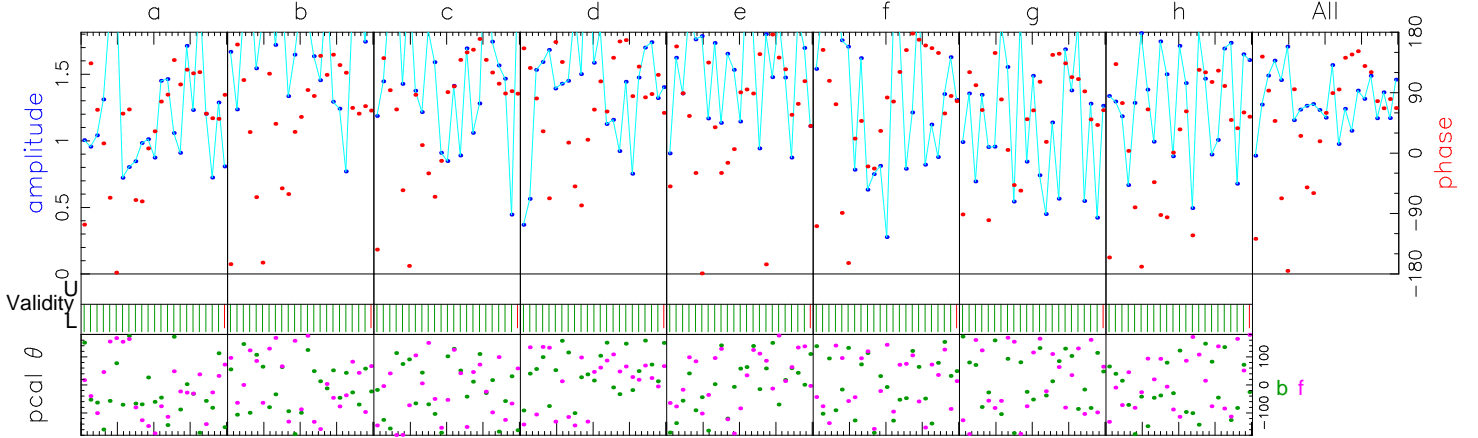
2017:208:015052

2017:215:024352

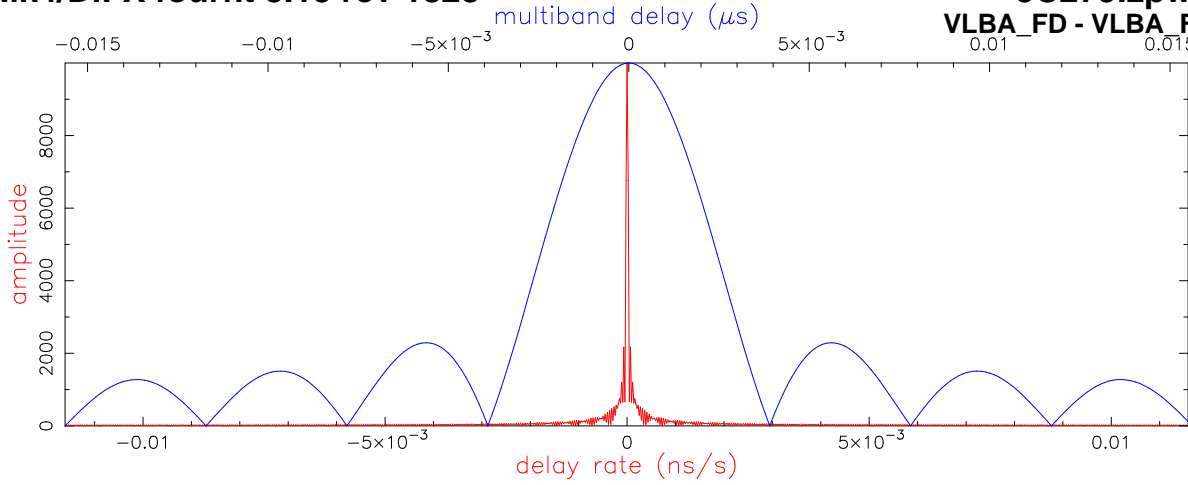
2017:188:152524

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

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



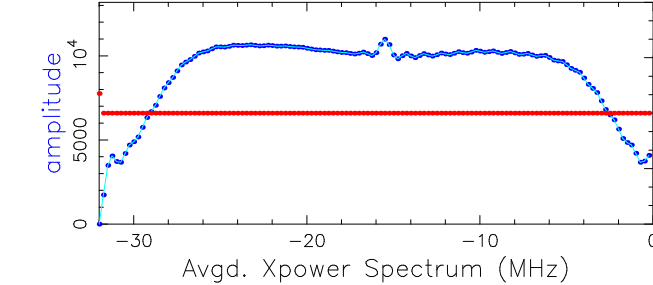
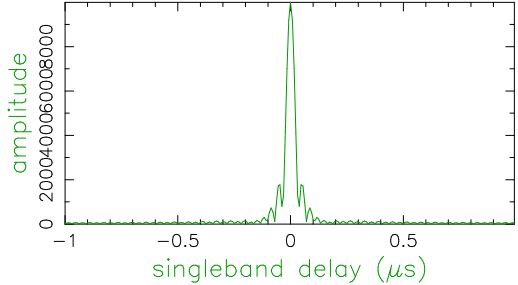
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
Group delay (usec)(sbd)	-6.48140293505E+03		Apriori delay (usec)		-6.48136996063E+03		Resid mbdelay (usec)		-1.72442E-03	+/- 1.2E-04
Sband delay (usec)	-6.48141808813E+03		Apriori clock (usec)		-3.7104468E+00		Resid sbdelay (usec)		-4.81275E-02	+/- 9.5E-04
Phase delay (usec)	-6.48136995762E+03		Apriori clockrate (us/s)		4.3343438E-07		Resid phdelay (usec)		3.00382E-06	+/- 2.0E-07
Delay rate (us/s)	4.46636958266E-02		Apriori rate (us/s)		4.46636703100E-02		Resid rate (us/s)		2.55166E-08	+/- 1.5E-09
Total phase (deg)	126.2		Apriori accel (us/s/s)		3.17265815557E-05		Resid phase (deg)		273.1	+/- 6.3
ph/seg (deg)	RMS 74.3	Theor. 15.2	Amplitude 15.2	Search (1024X32) 0.598	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000 1.000
amp/seg (%)	119.4	26.5	Interp. 0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.016 0.016
ph/frq (deg)	14.8	8.9	Inc. seg. avg. 1.257	0.611	Bits/sample: 2x2		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012 0.012
amp/frq (%)	20.9	15.6	Inc. frq. avg. 0.611	0.611	Data rate(Mb/s): 1024		nlags: 128 t_cohere infinite		ion window (TEC)	0.00 0.00



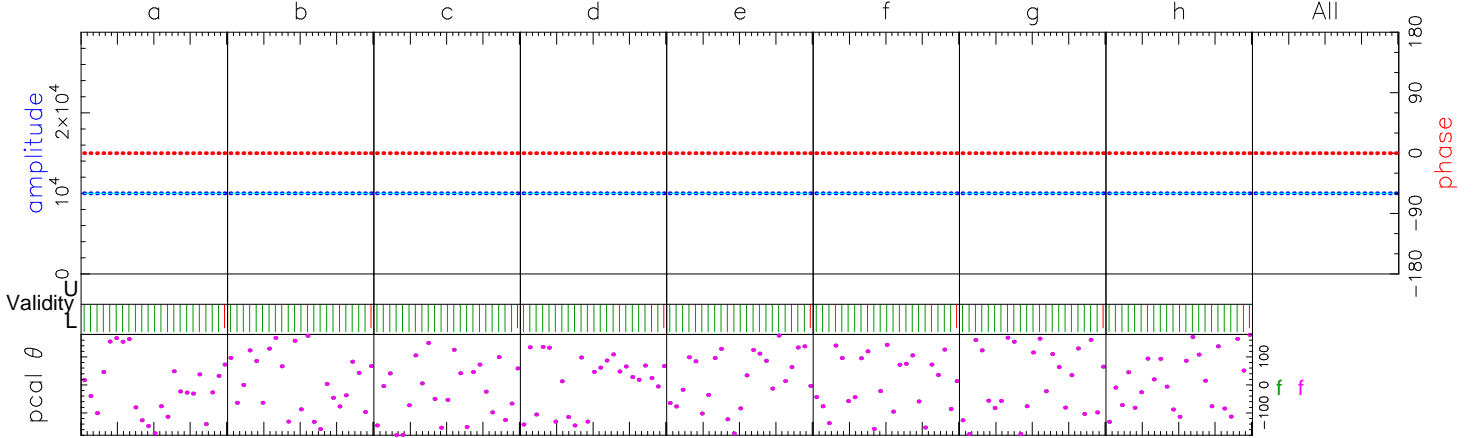
Fringe quality 9

SNR 299554.3  
Int time 239.986  
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  
2017:215:024556  
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



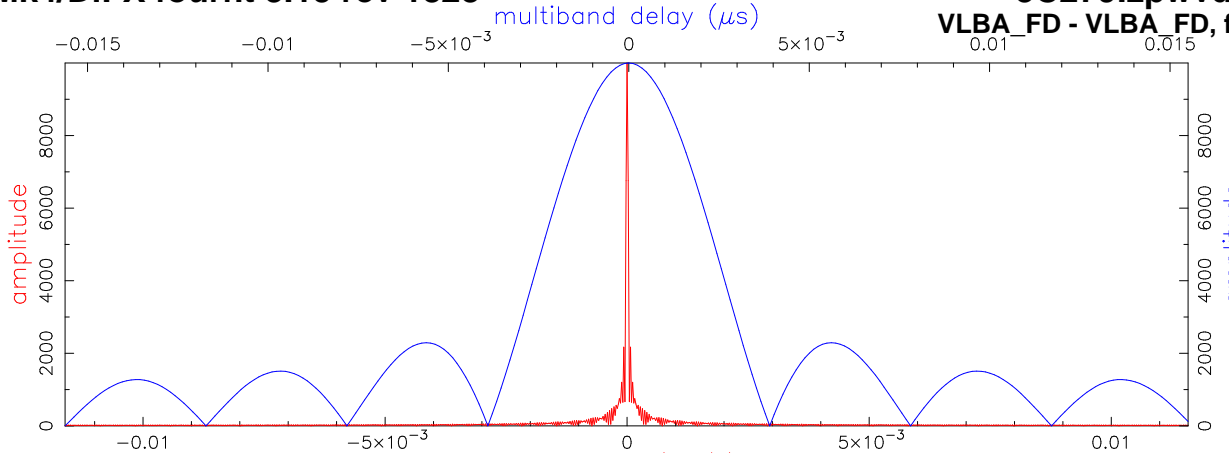
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Phase	0.0
10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	Sbd box	129.0
U/L 0/480	0/480	0/480	0/480	0/480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

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	7.2E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	5.8E-08
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.2E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	8.9E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

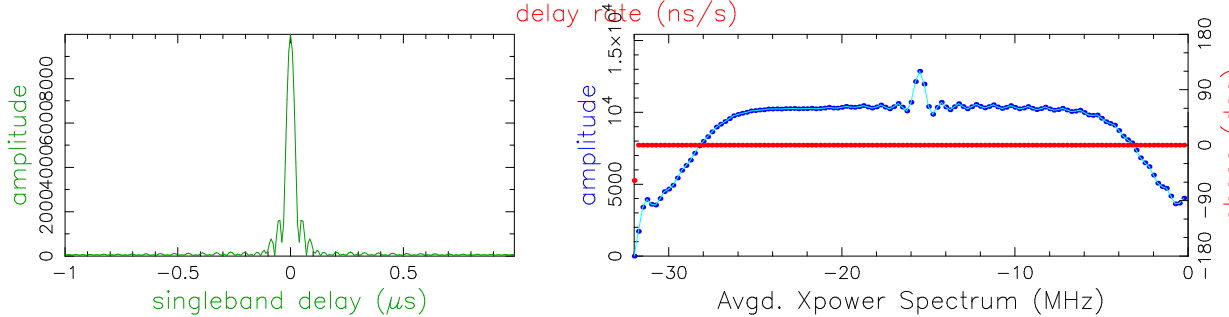
ph/seg (deg)	0.0	Theor.	Amplitude	9999.999 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	0.0	0.0	Search (1024X32)	10000.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
ph/frq (deg)	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
amp/frq (%)	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
			Inc. frq. avg.	9999.999	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			

f: az 132.0 el 40.8 pa -39.8 f: az 132.0 el 40.8 pa -39.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

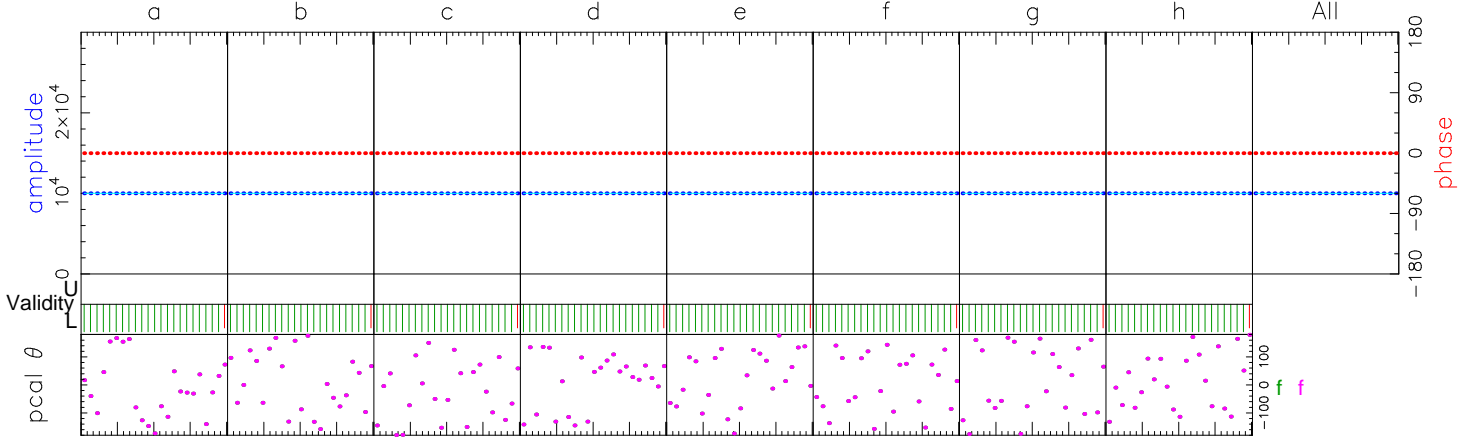
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/ff..zpvvdj Output file: /Exps/c171a/gmva/1234/No0584/ff.W.117.zpvvdj



Fringe quality 9  
 SNR 299554.3  
 Int time 239.986  
 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  
 2017:215:024557  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"



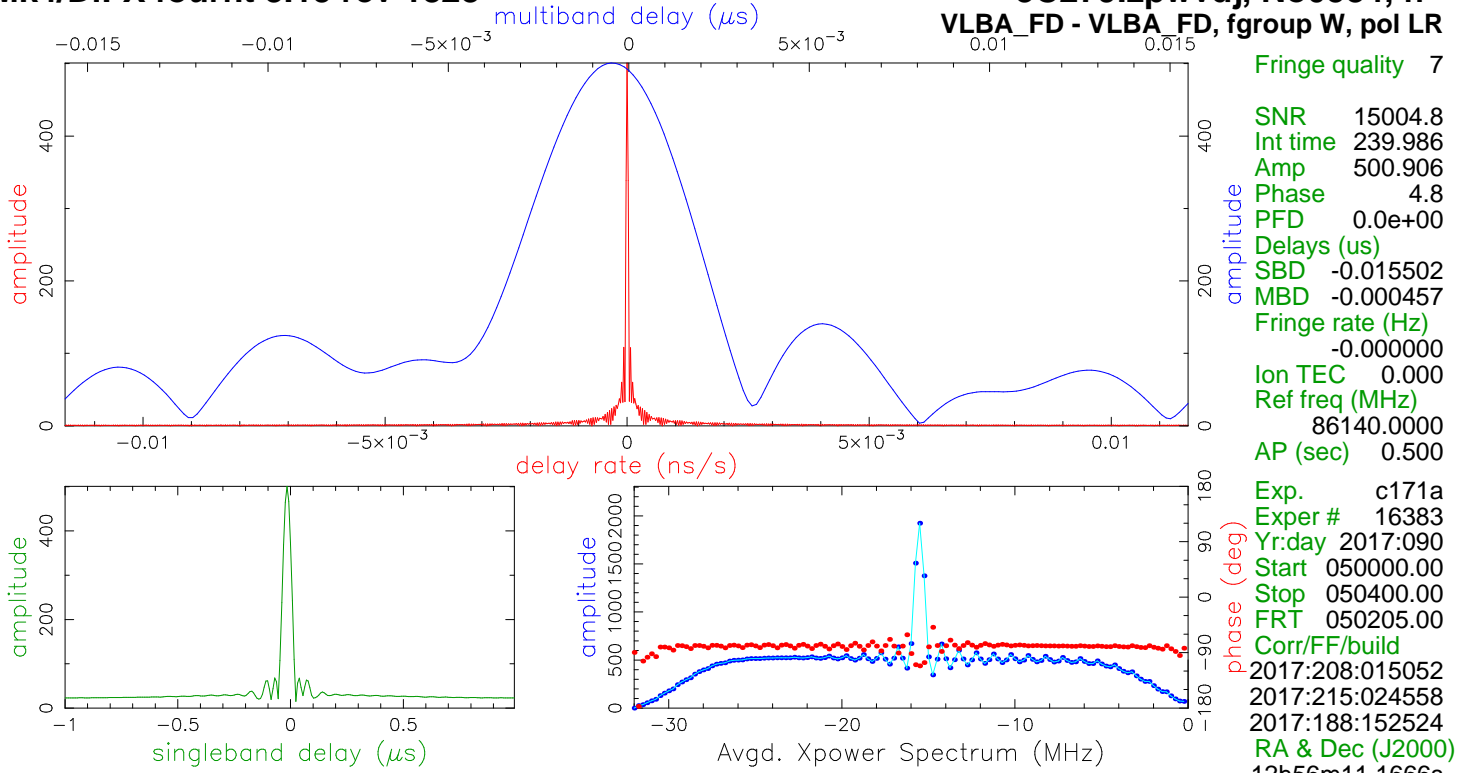
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



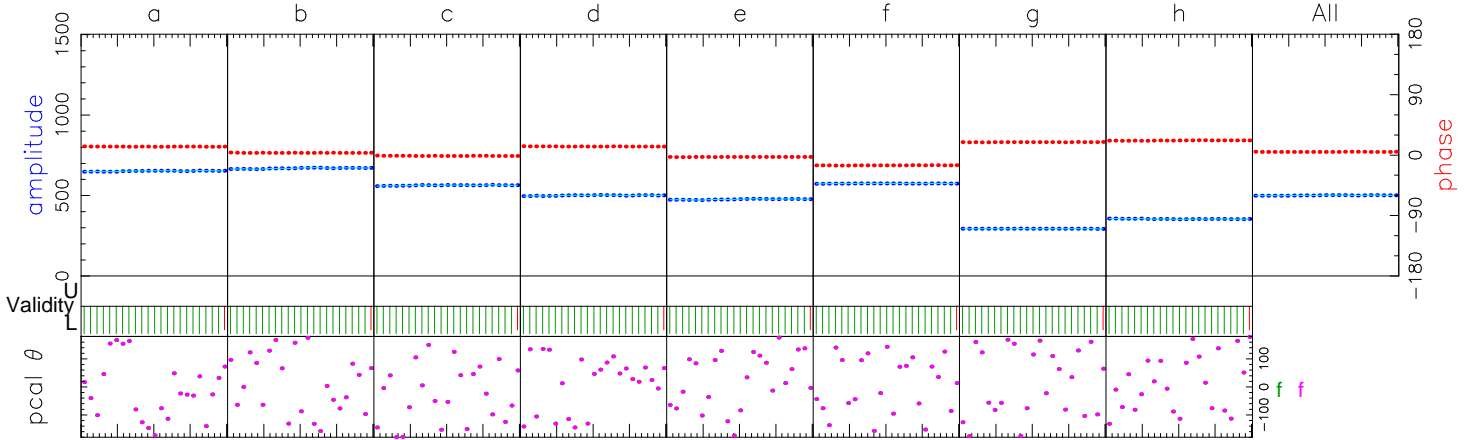
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Phase	0.0
10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	Sbd box	129.0
U/L 0/480	0/480	0/480	0/480	0/480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

ph/seg (deg) 0.0 0.0 Theor. Amplitude 9999.999 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 Inc. frq. avg. 9999.999 ion window (TEC) 0.00 0.00

f: az 132.0 el 40.8 pa -39.8 f: az 132.0 el 40.8 pa -39.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/ff.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/ff.W.118.zpwwdj



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

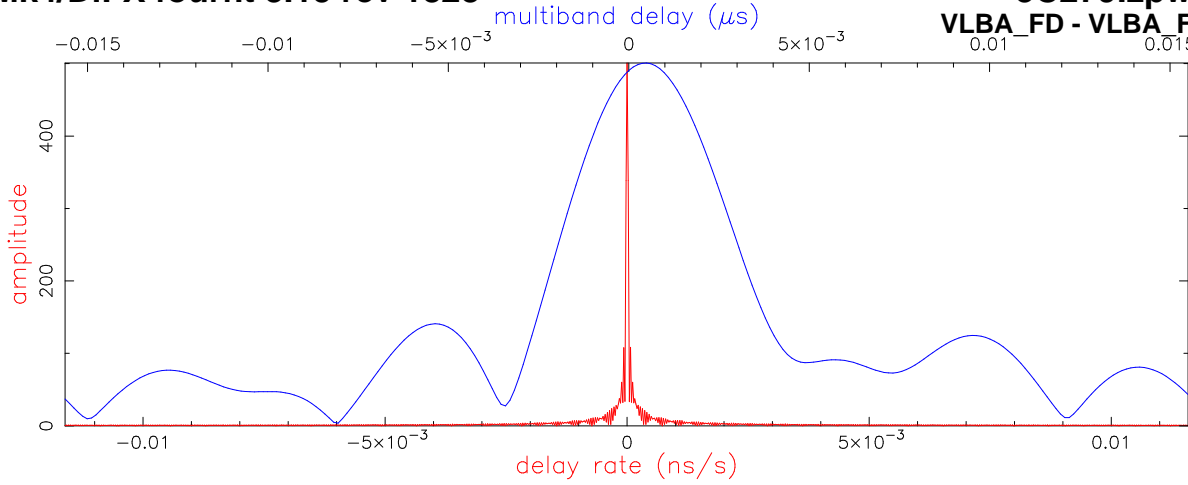


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
12.6	3.4	-1.1	12.8	-2.8	-15.3	19.3	21.7		Phase	4.8
652.0	669.4	563.4	500.6	476.3	574.7	294.0	354.7		Ampl.	510.6
127.3	126.8	127.3	127.0	126.7	127.1	126.9	126.7		Sbd box	127.0
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480		APs used	
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000		PC freqs	
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
f:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Manl PC	
f	1000	1000	1000	1000	1000	1000	1000		PC amp	
f	1000	1000	1000	1000	1000	1000	1000			
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
f	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.57375000000E-04		Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.57375E-04	+/-	1.4E-07		
Sband delay (usec)	-1.55015000000E-02		Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.55015E-02	+/-	1.1E-06		
Phase delay (usec)	1.55178115255E-07		Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.55178E-07	+/-	2.5E-10		
Delay rate (us/s)	-1.45112607383E-12		Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-1.45113E-12	+/-	1.8E-12		
Total phase (deg)		4.8	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	4.8	+/-	0.0		

	RMS	Theor.	Amplitude	500.906 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	0.1	0.0	Search (1024X32)	490.492	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
amp/seg (%)	0.3	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
ph/frq (deg)	13.7	0.0	Inc. seg. avg.	500.897	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
amp/frq (%)	25.0	0.0	Inc. frq. avg.	510.639	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			

f: az 132.0 el 40.8 pa -39.8 f: az 132.0 el 40.8 pa -39.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

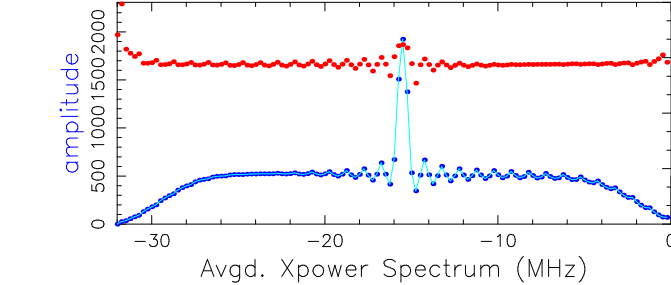
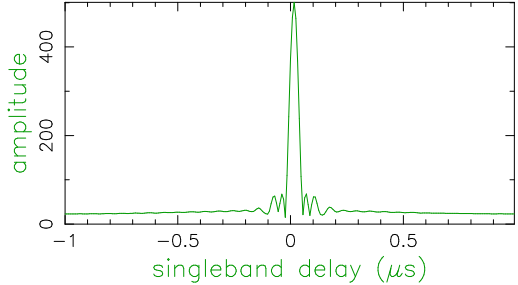
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/ff.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/ff.W.119.zpwwdj



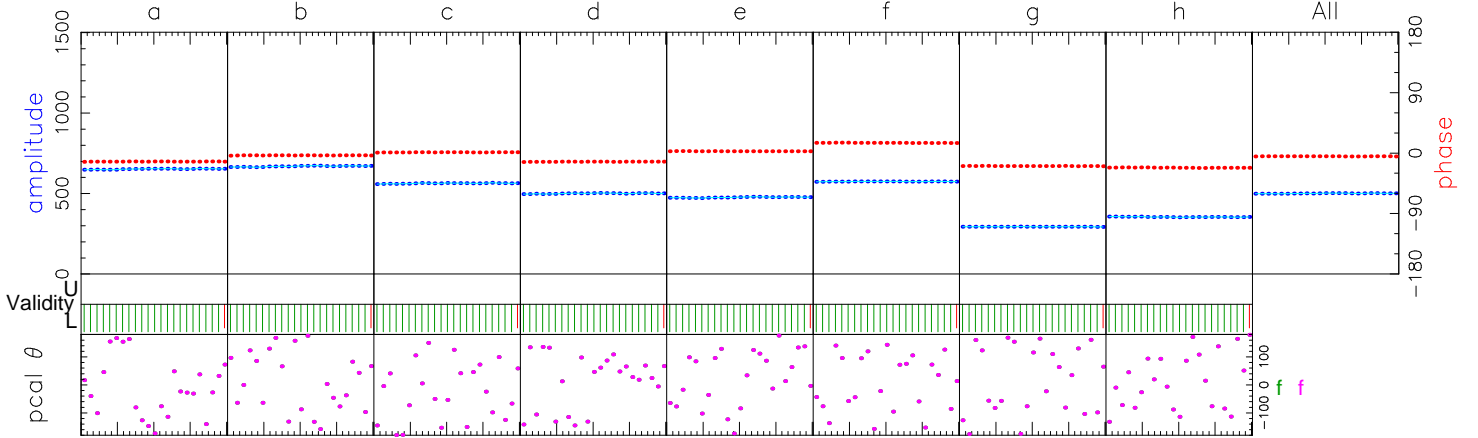
Fringe quality 7

SNR 15004.8  
Int time 239.986  
Amp 500.906  
Phase -4.8  
PFD 0.0e+00  
Delays (us)  
SBD 0.015502  
MBD 0.000457  
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  
2017:215:024559  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"



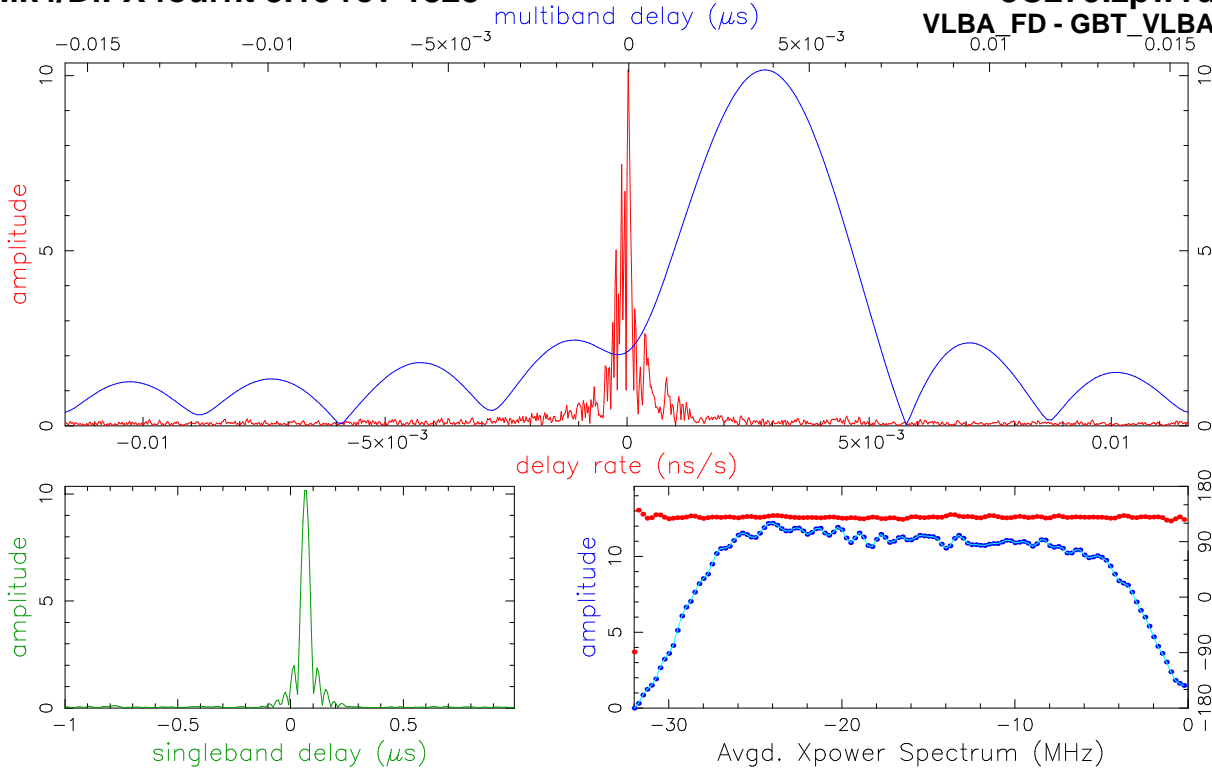
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-12.6	-3.4	1.1	-12.8	2.8	15.3	-19.3	-21.7	Phase	-4.8
652.0	669.4	563.4	500.6	476.3	574.7	294.0	354.7	Ampl.	510.6
130.7	131.2	130.7	131.0	131.3	130.9	131.1	131.3	Sbd box	131.0
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	
f:f 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:f 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	
f 1000	1000	1000	1000	1000	1000	1000	1000		
f W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
f W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
Group delay (usec)(sbd)	4.57375000000E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	4.57375E-04	+/-	1.4E-07		
Sband delay (usec)	1.55015000000E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.55015E-02	+/-	1.1E-06		
Phase delay (usec)	-1.55178115262E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.55178E-07	+/-	2.5E-10		
Delay rate (us/s)	1.45112607383E-12	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	1.45113E-12	+/-	1.8E-12		
Total phase (deg)	-4.8	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-4.8	+/-	0.0		

ph/seg (deg) 0.1 0.0 Theor. Amplitude 500.906 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 0.3 0.0 Search (1024X32) 490.492 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 13.7 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 25.0 0.0 Inc. seg. avg. 500.897 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 f: az 132.0 el 40.8 pa -39.8 u,v (fr/asec) 0.000 0.000 ion window (TEC) 0.00 0.00  
 simultaneous interpolator



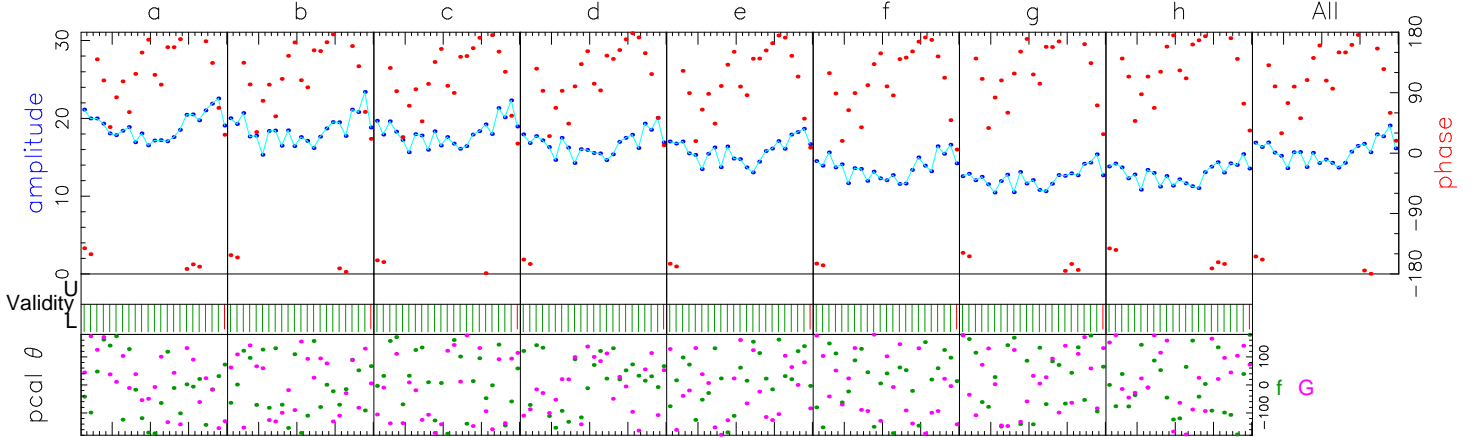


Fringe quality 5

SNR 303.2  
Int time 228.985  
Amp 10.360  
Phase -230.9  
PFD 0.0e+00  
Delays (us)  
SBD 0.066388  
MBD 0.003757  
Fringe rate (Hz) 0.002263  
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  
2017:215:024634  
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
	138.2	132.0	123.6	122.1	119.7	118.2	137.5	143.4	Phase	129.1
	12.2	12.0	11.7	10.9	10.2	8.8	8.2	8.4	Ampl.	10.3
	137.7	137.3	137.5	137.6	137.3	137.6	137.5	137.4	Sbd box	137.5
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-9.78346270754E+02		Apriori delay (usec)		-9.78412527396E+02		Resid mbdelay (usec)		3.75664E-03	+/- 7.2E-06
Sband delay (usec)	-9.78346139396E+02		Apriori clock (usec)		1.0508989E+01		Resid sbdelay (usec)		6.63880E-02	+/- 5.7E-05
Phase delay (usec)	-9.78412523233E+02		Apriori clockrate (us/s)		-6.5280756E-07		Resid phdelay (usec)		4.16285E-06	+/- 1.2E-08
Delay rate (us/s)	5.35433990583E-01		Apriori rate (us/s)		5.35433964311E-01		Resid rate (us/s)		2.62712E-08	+/- 9.2E-11
Total phase (deg)	-270.5		Apriori accel (us/s/s)		6.55272992641E-06		Resid phase (deg)		-230.9	+/- 0.4

ph/seg (deg) 51.7 0.9  
amp/seg (%) 53.6 1.6  
ph/frq (deg) 10.4 0.5  
amp/frq (%) 15.1 0.9

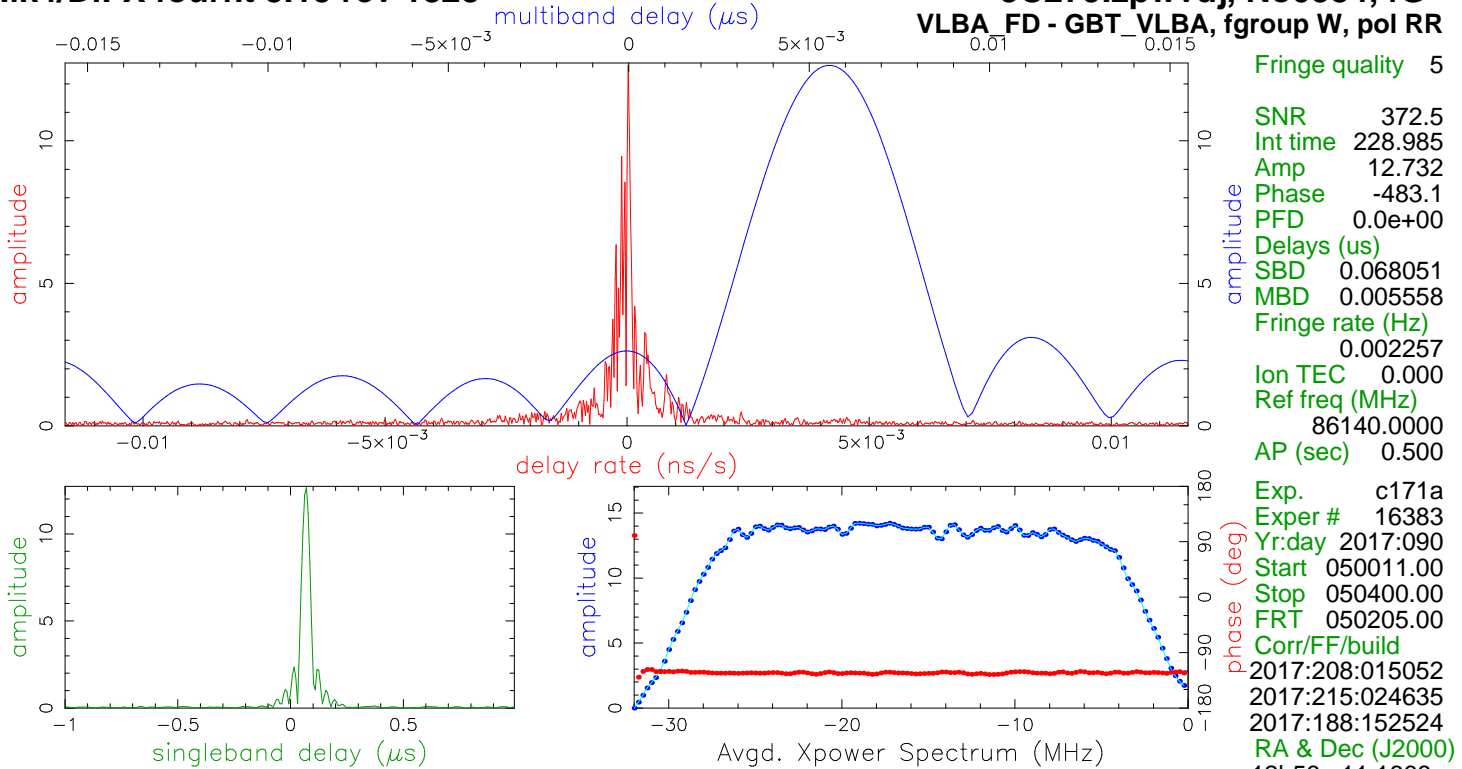
RMS Theor. Amplitude 10.360 +/- 0.034  
Search (1024X32) 10.074  
Interp. 0.000  
Inc. seg. avg. 15.728  
Inc. frq. avg. 10.282

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
Pcal rate: 0.000E+00, 0.000E+00 (us/s)  
Bits/sample: 2x2 SampCntNorm: enabled  
Sample rate(MSamp/s): 64  
Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite

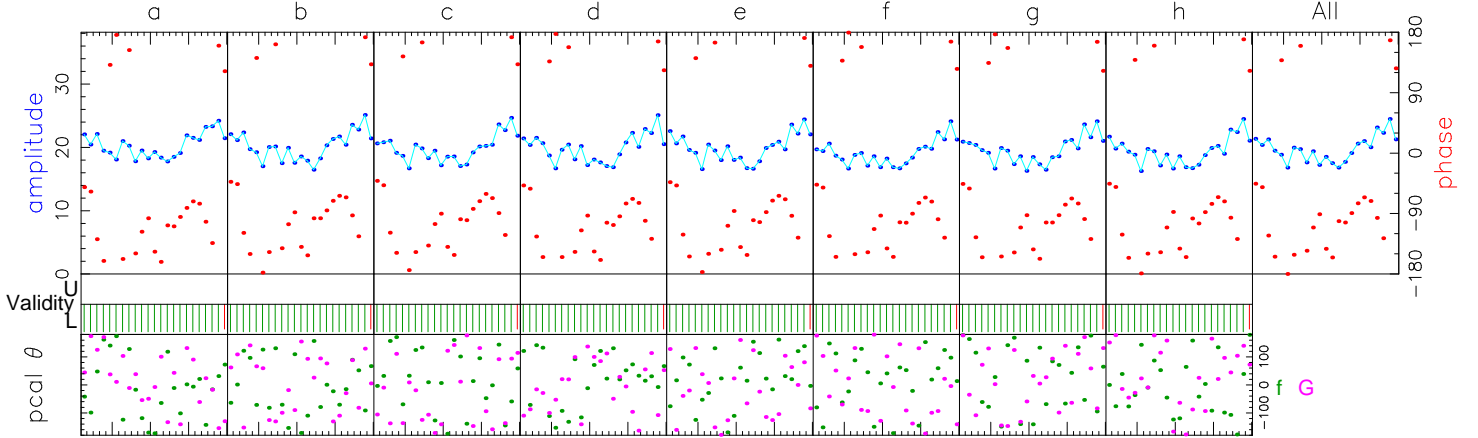
sb window (us) -1.000 1.000  
mb window (us) -0.016 0.016  
dr window (ns/s) -0.012 0.012  
ion window (TEC) 0.00 0.00

f: az 132.0 el 40.8 pa -39.8 G: az 165.5 el 44.7 pa -11.0 u,v (fr/asec) -3078.286 -1040.769 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fG.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/fG.W.153.zpvdj

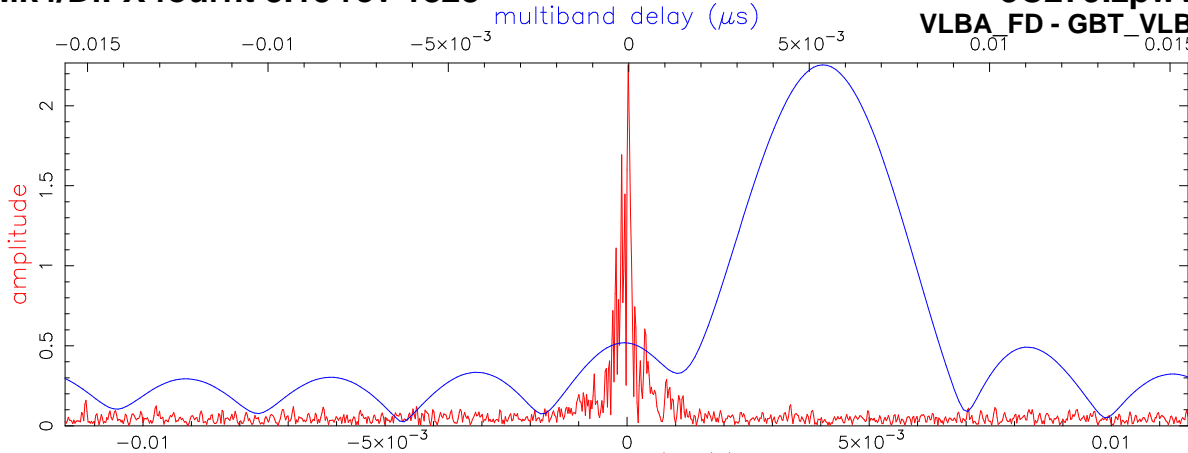


Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec

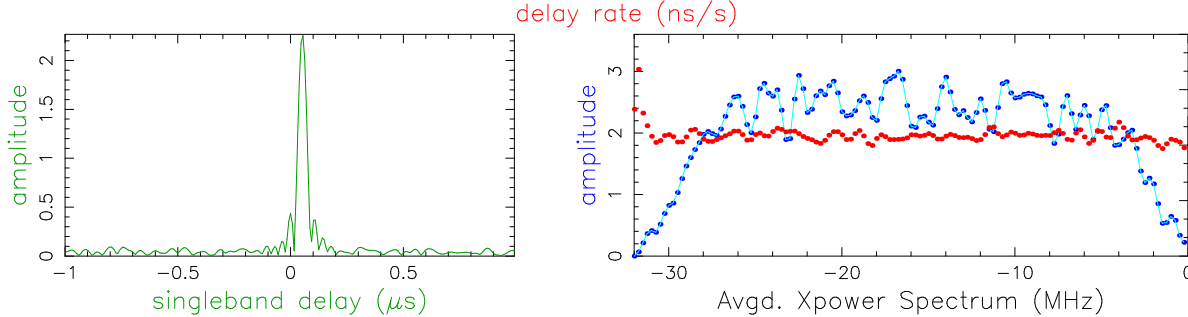


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-128.7	-119.0	-119.0	-125.6	-120.6	-124.2	-124.7	-123.0	Phase	-123.1
13.1	12.9	12.8	12.8	12.8	12.2	12.4	12.3	Ampl.	12.7
137.7	137.8	137.6	137.7	137.7	137.6	137.8	137.8	Sbd box	137.7
U/L 0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
f -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G 1000	1000	1000	1000	1000	1000	1000	1000		
f W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
G W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-9.78344469129E+02		Apriori delay (usec)	-9.78412527396E+02		Resid mbdelay (usec)	5.55827E-03	+/-	5.8E-06
Sband delay (usec)	-9.78344476396E+02		Apriori clock (usec)	1.0508989E+01		Resid sbdelay (usec)	6.80510E-02	+/-	4.6E-05
Phase delay (usec)	-9.78412531365E+02		Apriori clockrate (us/s)	-6.5280756E-07		Resid phdelay (usec)	-3.96961E-06	+/-	9.9E-09
Delay rate (us/s)	5.35433990514E-01		Apriori rate (us/s)	5.35433964311E-01		Resid rate (us/s)	2.62030E-08	+/-	7.5E-11
Total phase (deg)	-522.7		Apriori accel (us/s/s)	6.55272992641E-06		Resid phase (deg)	-483.1	+/-	0.3

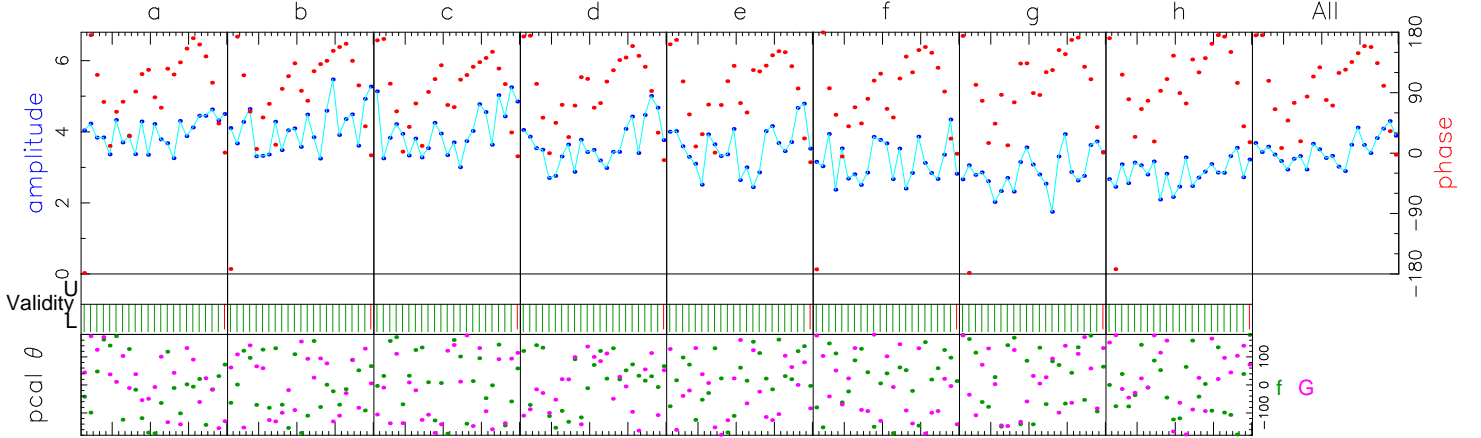
ph/seg (deg) 52.0 0.7 Theor. Amplitude 12.732 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 57.3 1.3 Search (1024X32) 12.442 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 3.7 0.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 2.3 0.8 Inc. seg. avg. 19.750 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 G: az 165.5 el 44.7 pa -11.0 u,v (fr/asec) -3078.286 -1040.769 ion window (TEC) 0.00 0.00  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fG.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/fG.W.154.zpwwdj simultaneous interpolator



Fringe quality 5  
 SNR 66.3  
 Int time 228.985  
 Amp 2.267  
 Phase -257.4  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.052685  
 MBD 0.005378  
 Fringe rate (Hz) 0.002210  
 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  
 2017:215:024636  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

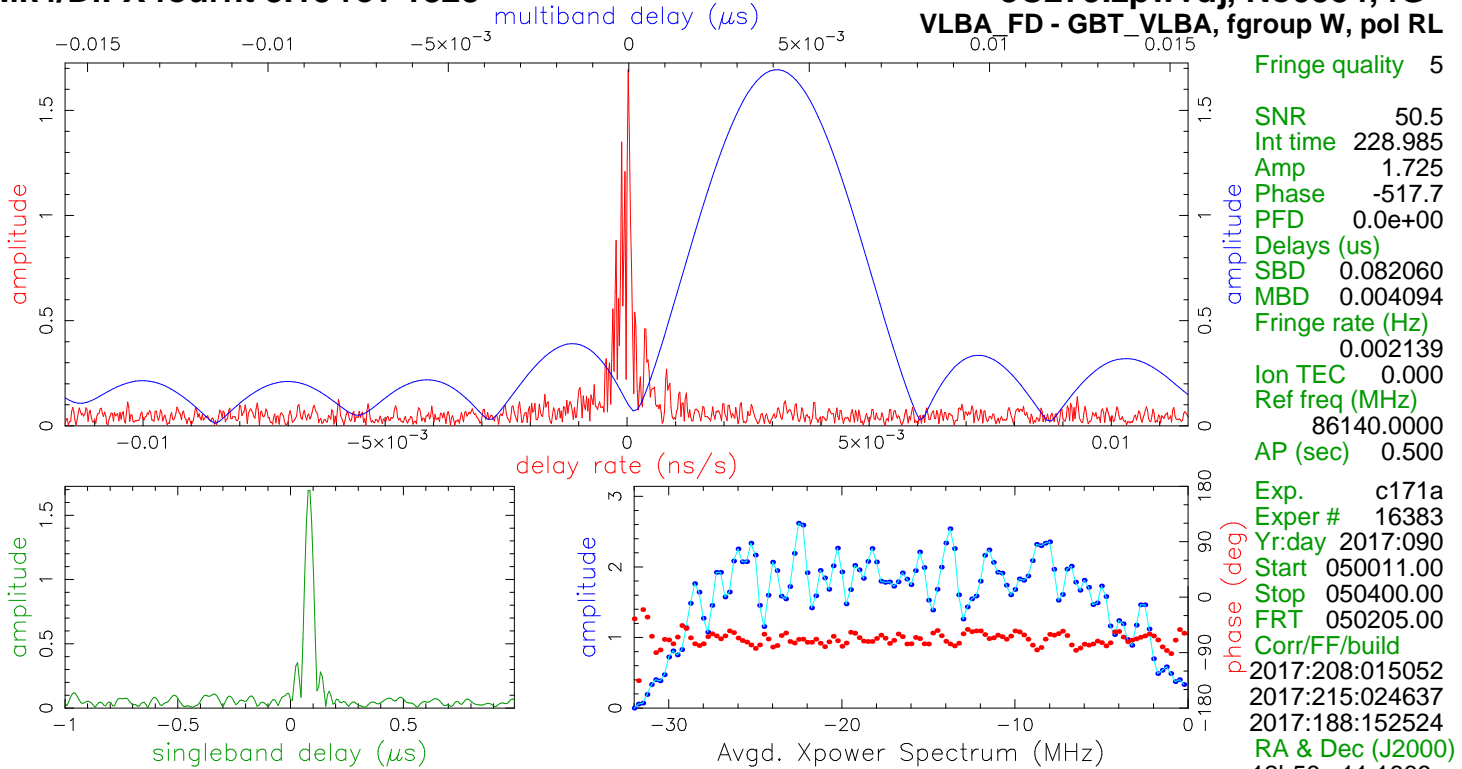


Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec

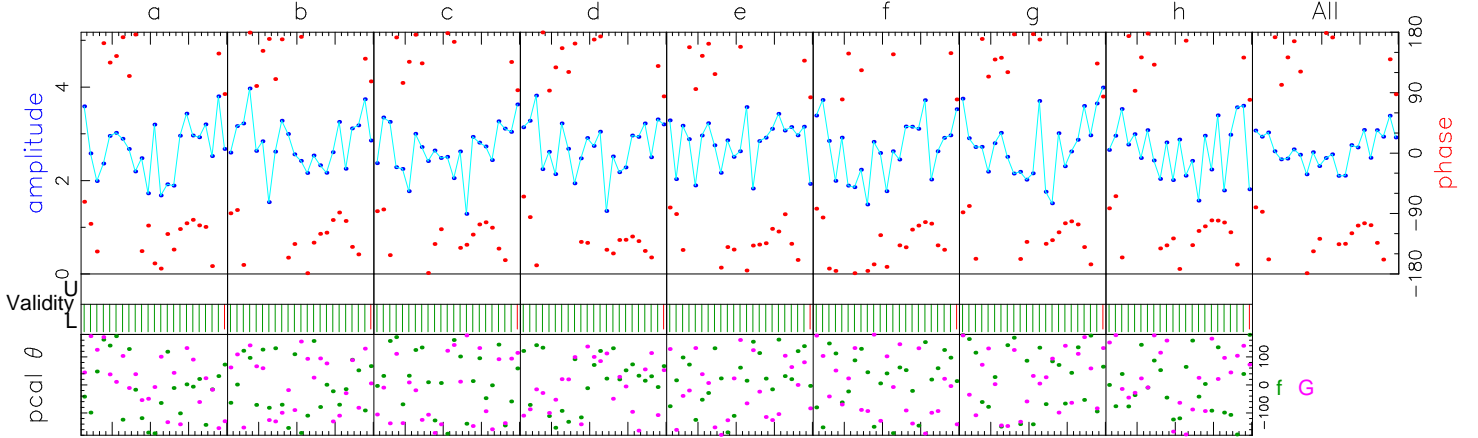


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	106.8	106.4	97.8	98.7	98.7	96.1	108.9	108.5	Phase	102.6
	2.6	2.6	2.7	2.4	2.2	2.0	1.8	1.8	Ampl.	2.3
	136.1	135.7	135.7	135.7	135.6	135.6	135.9	135.6	Sbd box	135.7
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-9.78344649754E+02		Apriori delay (usec)		-9.78412527396E+02		Resid mbdelay (usec)		5.37764E-03	+/- 3.3E-05
Sband delay (usec)	-9.78359841896E+02		Apriori clock (usec)		1.0508989E+01		Resid sbdelay (usec)		5.26855E-02	+/- 2.6E-04
Phase delay (usec)	-9.78412524088E+02		Apriori clockrate (us/s)		-6.5280756E-07		Resid phdelay (usec)		3.30753E-06	+/- 5.6E-08
Delay rate (us/s)	5.35433989962E-01		Apriori rate (us/s)		5.35433964311E-01		Resid rate (us/s)		2.56501E-08	+/- 4.2E-10
Total phase (deg)	-297.0		Apriori accel (us/s/s)		6.55272992641E-06		Resid phase (deg)		-257.4	+/- 1.7

RMS Theor. Amplitude 2.267 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 51.5 4.1 Search (1024X32) 2.192 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 56.3 7.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 5.8 2.4 Inc. seg. avg. 3.478 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 amp/frq (%) 14.5 4.3 Inc. frq. avg. 2.262 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 G: az 165.5 el 44.7 pa -11.0 u,v (fr/asec) -3078.286 -1040.769 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fG.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/fG.W.155.zpvdj

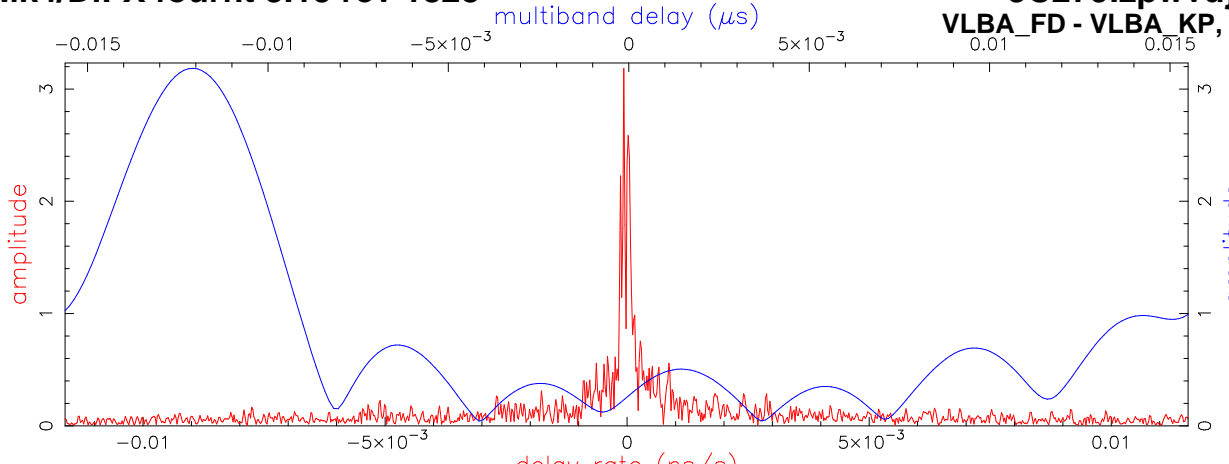


Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-153.1	-159.1	-156.7	-166.5	-158.1	-151.4	-164.2	-152.0	Phase	-157.7
1.7	1.8	1.7	1.7	1.7	1.6	1.6	1.6	Ampl.	1.7
139.6	139.5	139.2	139.7	139.6	139.5	139.5	139.6	Sbd box	139.5
U/L 0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
f -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
f 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G 1000	1000	1000	1000	1000	1000	1000	1000		
f W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
G W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-9.78345933129E+02	Apriori delay (usec)	-9.78412527396E+02	Resid mbdelay (usec)	4.09427E-03	+/-	4.3E-05		
Sband delay (usec)	-9.78330467896E+02	Apriori clock (usec)	1.0508989E+01	Resid sbdelay (usec)	8.20595E-02	+/-	3.4E-04		
Phase delay (usec)	-9.78412532481E+02	Apriori clockrate (us/s)	-6.5280756E-07	Resid phdelay (usec)	-5.08512E-06	+/-	7.3E-08		
Delay rate (us/s)	5.35433989145E-01	Apriori rate (us/s)	5.35433964311E-01	Resid rate (us/s)	2.48331E-08	+/-	5.5E-10		
Total phase (deg)	-557.2	Apriori accel (us/s/s)	6.55272992641E-06	Resid phase (deg)	-517.7	+/-	2.3		

RMS Theor. Amplitude 1.725 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 52.5 5.4 Search (1024X32) 1.683 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 58.2 9.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 6.0 3.2 Inc. seg. avg. 2.660 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 (%) 4.6 5.6 Inc. frq. avg. 1.698 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 G: az 165.5 el 44.7 pa -11.0 u,v (fr/asec) -3078.286 -1040.769 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fG.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/fG.W.156.zpvdj



Fringe quality 4

SNR 96.8

Int time 239.986

Amp 3.232

Phase -9.5

PFD 0.0e+00

Delays (us)

SBD 0.019086

MBD -0.012081

Fringe rate (Hz) -0.004938

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

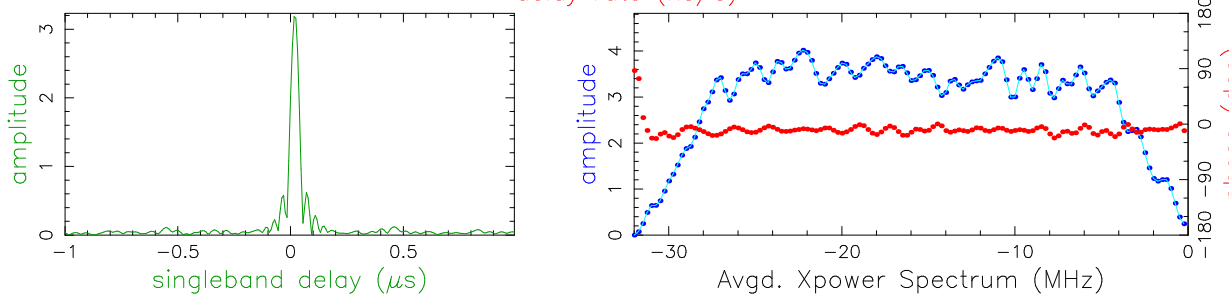
Corr/FF/build

2017:208:015052

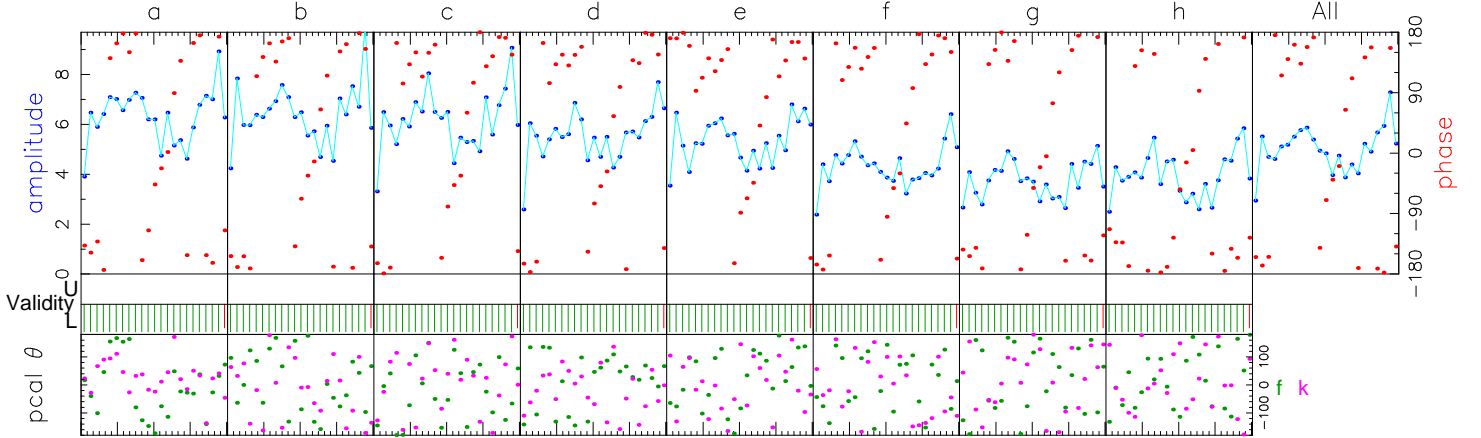
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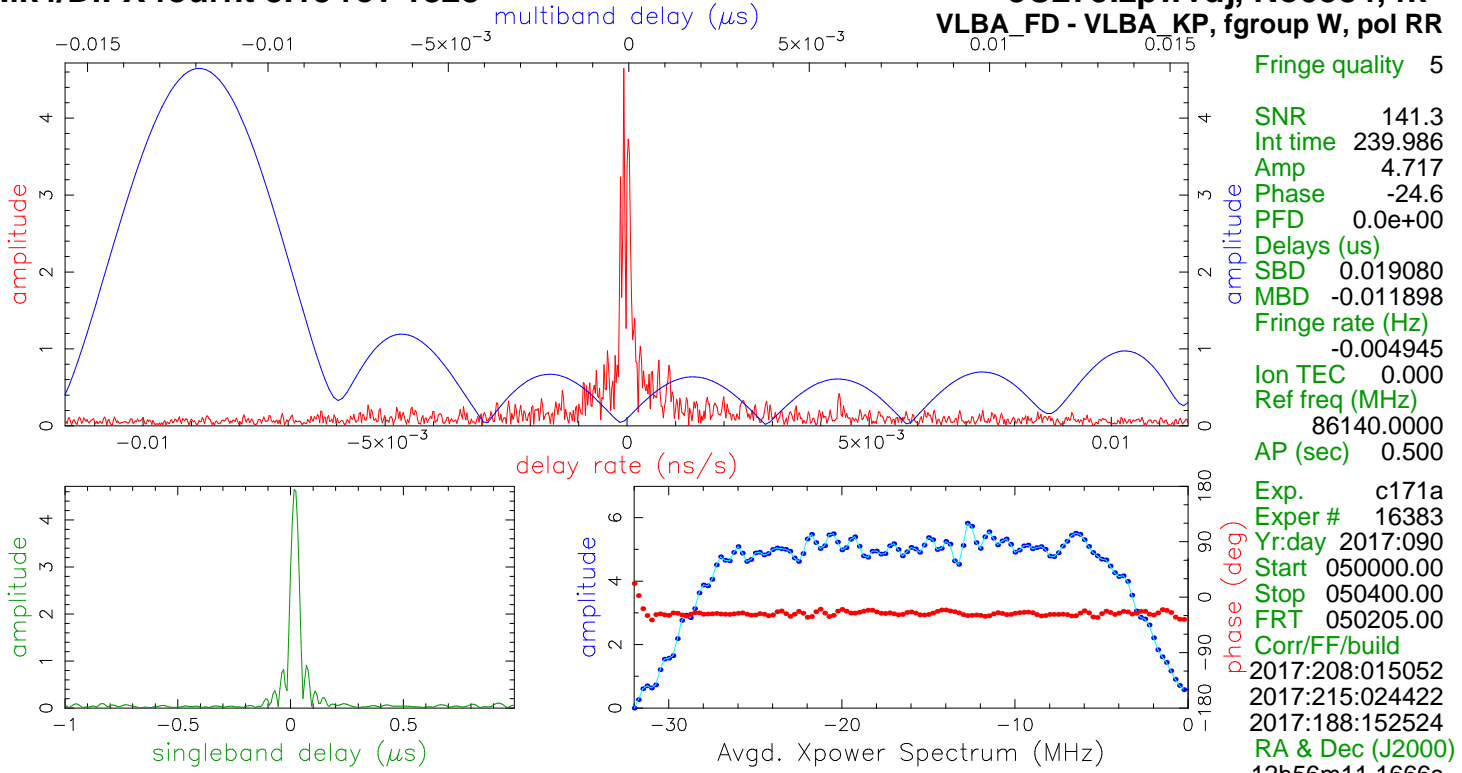
RA & Dec (J2000) 12h56m11.1666s -5°47'21.525"



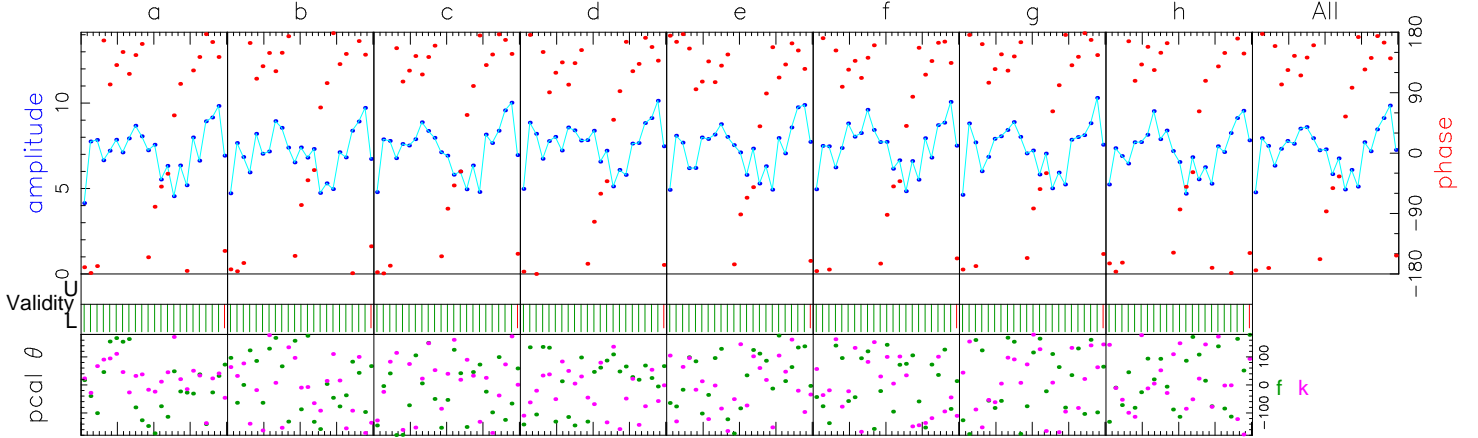
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
-170.2	172.6	158.5	161.7	150.8	161.1	-176.4	-168.3	Phase	170.5	
4.0	4.1	3.9	3.4	3.4	2.7	2.3	2.6	Ampl.	3.3	
131.6	131.2	131.5	131.5	131.3	131.7	131.5	131.3	Sbd box	131.4	
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		
k -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
f:k 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
f:k 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		
k 1000	1000	1000	1000	1000	1000	1000	1000			
f W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids		
k W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks		
Group delay (usec)(sbd)		1.72635887203E+03	Apriori delay (usec)		1.72633970271E+03	Resid mbdelay (usec)		-1.20807E-02	+/- 2.2E-05	
Sband delay (usec)		1.72635878871E+03	Apriori clock (usec)		2.3110614E+00	Resid sbdelay (usec)		1.90860E-02	+/- 1.8E-04	
Phase delay (usec)		1.72633970820E+03	Apriori clockrate (us/s)		-4.1878843E-07	Resid phdelay (usec)		5.49841E-06	+/- 3.8E-08	
Delay rate (us/s)		-1.28345311331E-01	Apriori rate (us/s)		-1.28345254004E-01	Resid rate (us/s)		-5.73267E-08	+/- 2.8E-10	
Total phase (deg)		-12.7	Apriori accel (us/s/s)		-8.93953092600E-06	Resid phase (deg)		-9.5	+/- 1.2	
ph/seg (deg)	RMS 64.7	Theor. 2.8	Amplitude 19.9	3.232 +/- 0.033	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
amp/seg (%)	61.6	5.0	Search (1024X32)	2.795	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000	
ph/frq (deg)	16.8	1.7	Inc. seg. avg.	5.020	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016	0.016
amp/frq (%)	19.9	2.9	Inc. frq. avg.	3.286	Sample rate(MSamp/s): 64		ion window (ns/s)	-0.012	0.012	
f: az 132.0 el 40.8 pa -39.8		k: az 125.6 el 34.9 pa -43.7		u,v (fr/asec) 732.439 -101.052		Data rate(Mb/s): 1024		nlags: 128	t_cohere infinite	simultaneous interpolator

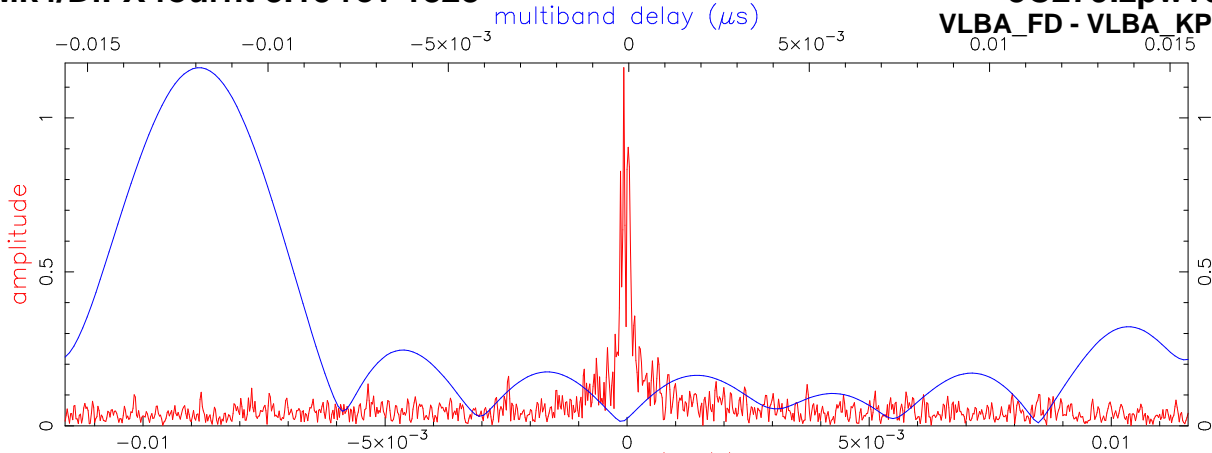


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	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	155.4	155.4
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Ampl.	4.7
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	131.4
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
k	1000	1000	1000	1000	1000	1000	1000	1000	Manl PC	
f	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	PC amp	
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)		1.72635905472E+03		Apriori delay (usec)	1.72633970271E+03		Resid mbdelay (usec)	-1.18980E-02	+/-	1.5E-05
Sband delay (usec)		1.72635878321E+03		Apriori clock (usec)	2.3110614E+00		Resid sbdelay (usec)	1.90805E-02	+/-	1.2E-04
Phase delay (usec)		1.72633970772E+03		Apriori clockrate (us/s)	-4.1878843E-07		Resid phdelay (usec)	5.00964E-06	+/-	2.6E-08
Delay rate (us/s)		-1.28345311408E-01		Apriori rate (us/s)	-1.28345254004E-01		Resid rate (us/s)	-5.74036E-08	+/-	1.9E-10
Total phase (deg)			-27.8	Apriori accel (us/s/s)	-8.93953092600E-06		Resid phase (deg)	-24.6	+/-	0.8

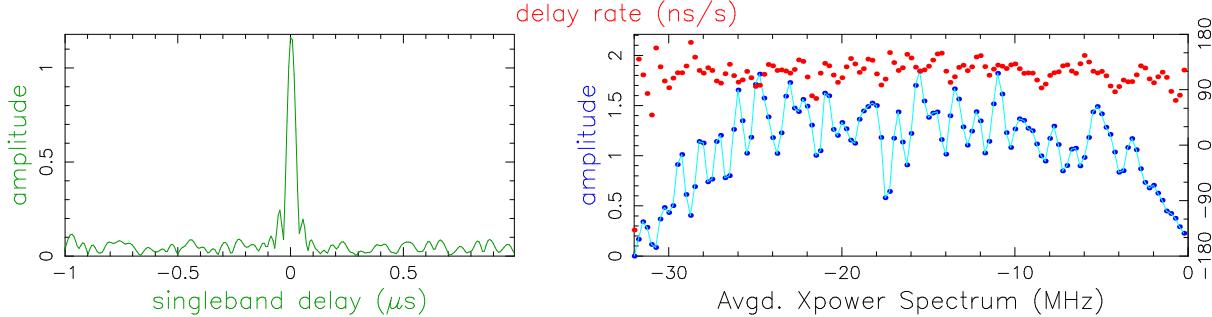
ph/seg (deg) 64.3 1.9 Theor. Amplitude 4.717 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 60.5 3.4 Search (1024X32) 4.122 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 6.6 1.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 3.0 2.0 Inc. seg. avg. 7.268 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 k: az 125.6 el 34.9 pa -43.7 u,v (fr/asec) 732.439 -101.052 ion window (TEC) 0.00 0.00  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fk..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/fk.W.30.zpwvdj simultaneous interpolator



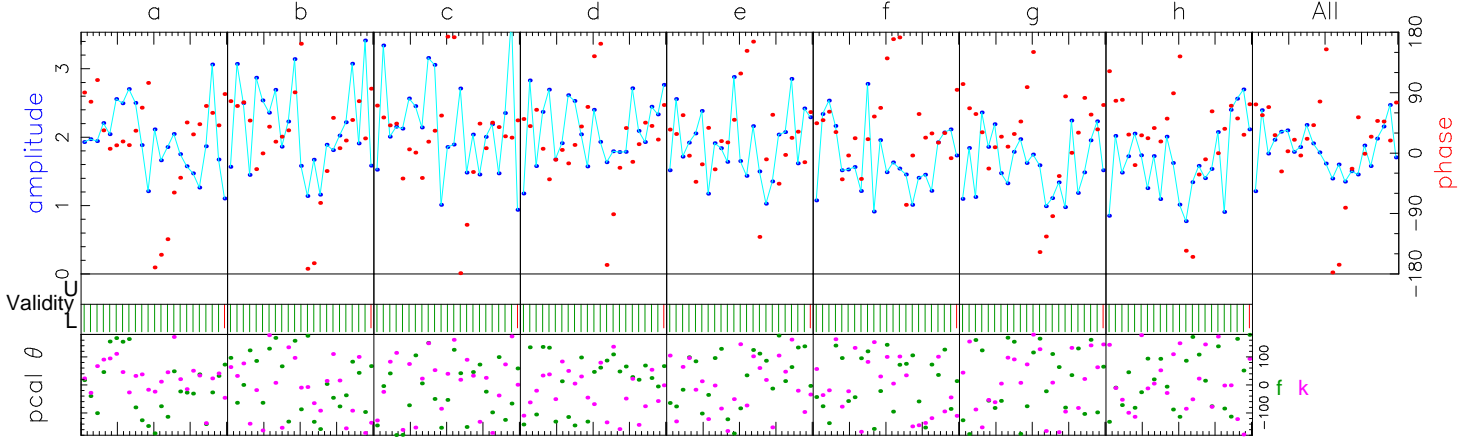
Fringe quality 7

SNR 35.3  
Int time 239.986  
Amp 1.179  
Phase 32.9  
PFD 0.0e+00  
Delays (us)  
SBD 0.003211  
MBD -0.011913  
Fringe rate (Hz) -0.004898  
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  
2017:215:024423  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

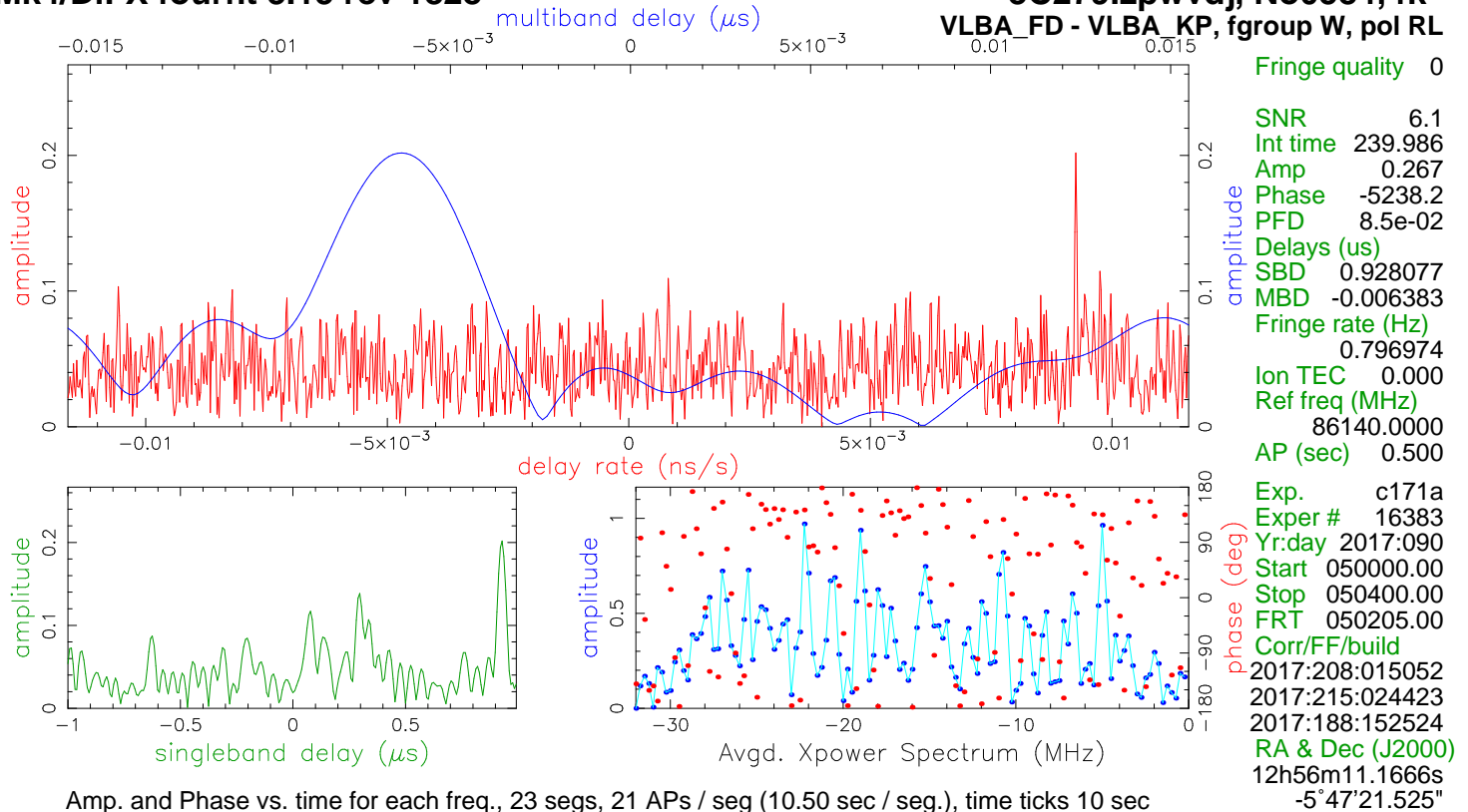


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

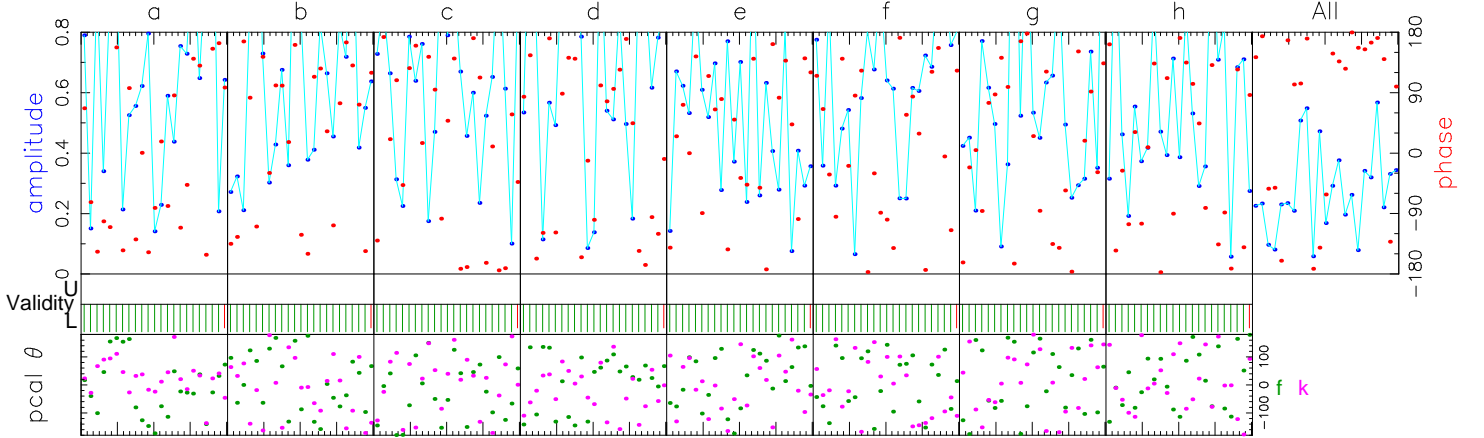


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	42.8	41.0	25.5	22.5	18.1	33.3	39.5	43.1	Phase	32.9
	1.1	1.4	1.3	1.3	1.2	1.1	1.0	1.1	Ampl.	1.2
	129.6	129.3	129.6	129.3	129.3	129.7	129.7	129.0	Sbd box	129.4
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.72632778947E+03		Apriori delay (usec)		1.72633970271E+03		Resid mbdelay (usec)		-1.19132E-02	+/- 6.1E-05
Sband delay (usec)	1.72634291371E+03		Apriori clock (usec)		2.3110614E+00		Resid sbdelay (usec)		3.21100E-03	+/- 4.9E-04
Phase delay (usec)	1.72633970377E+03		Apriori clockrate (us/s)		-4.1878843E-07		Resid phdelay (usec)		1.06207E-06	+/- 1.0E-07
Delay rate (us/s)	-1.28345310868E-01		Apriori rate (us/s)		-1.28345254004E-01		Resid rate (us/s)		-5.68638E-08	+/- 7.6E-10
Total phase (deg)	29.7		Apriori accel (us/s/s)		-8.93953092600E-06		Resid phase (deg)		32.9	+/- 3.2

ph/seg (deg) 64.3 7.8 Theor. Amplitude 1.179 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 60.5 13.6 Search (1024X32) 1.020 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 10.7 4.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 12.1 8.0 Inc. seg. avg. 1.798 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 k: az 125.6 el 34.9 pa -43.7 u,v (fr/asec) 732.439 -101.052 ion window (TEC) 0.00 0.00  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fk..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/fk.W.31.zpwwdj simultaneous interpolator



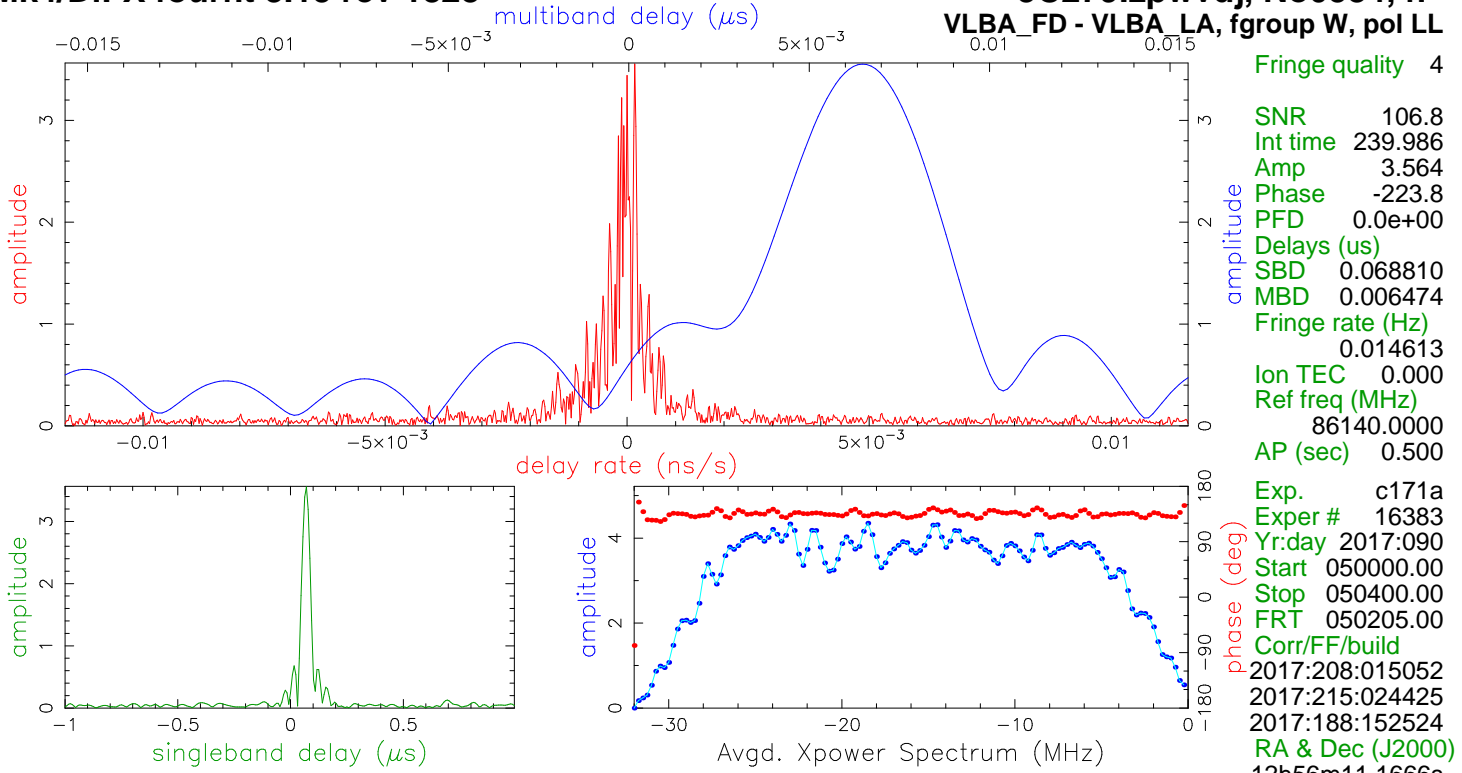
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



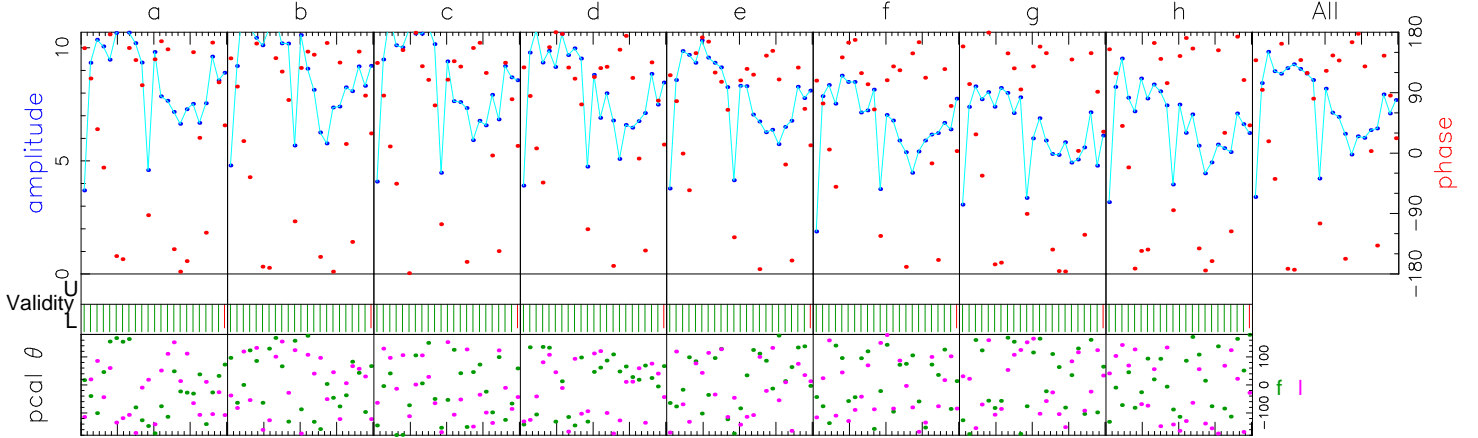
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-173.5	146.5	164.8	156.0	121.9	163.5	172.4	176.3	Phase	161.8
	0.3	0.4	0.3	0.5	0.2	0.3	0.3	0.3	Ampl.	0.3
	56.1	8.6	137.5	247.9	173.5	147.5	187.9	158.7	Sbd box	247.8
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
Group delay (usec)(sbd)	1.72727081963E+03		Apriori delay (usec)		1.72633970271E+03		Resid mbdelay (usec)		-6.38307E-03	+/- 3.6E-04
Sband delay (usec)	1.72726777921E+03		Apriori clock (usec)		2.3110614E+00		Resid sbdelay (usec)		9.28077E-01	+/- 2.8E-03
Phase delay (usec)	1.72633970793E+03		Apriori clockrate (us/s)		-4.1878843E-07		Resid phdelay (usec)		5.21860E-06	+/- 6.1E-07
Delay rate (us/s)	-1.28336001926E-01		Apriori rate (us/s)		-1.28345254004E-01		Resid rate (us/s)		9.25208E-06	+/- 4.4E-09
Total phase (deg)			Apriori accel (us/s/s)		-8.93953092600E-06		Resid phase (deg)		-5238.2	+/- 18.9

ph/seg (deg) 61.0 Theor. 45.3 Amplitude 0.267 +/- 0.044 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 79.7 79.1 Interp. 0.000 Search (1024X32) 0.196 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 21.6 26.7 Inc. seg. avg. 0.279 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
amp/frq (%) 39.2 46.7 Inc. frq. avg. 0.252 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 k: az 125.6 el 34.9 pa -43.7 u,v (fr/asec) 732.439 -101.052 ion window (TEC) 0.00 0.00  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fk..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/fk.W.32.zpwvdj simultaneous interpolator





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

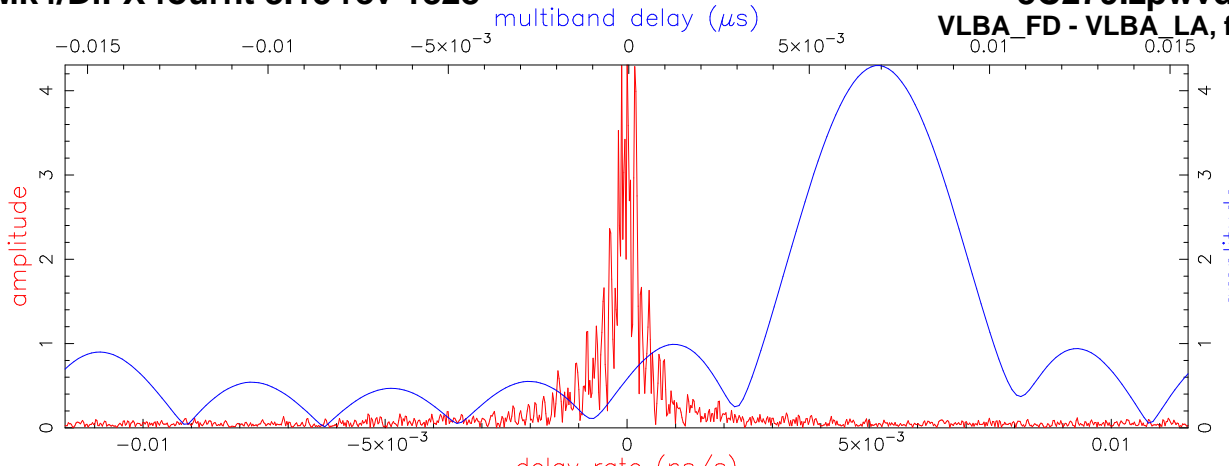


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
l	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
l	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Group delay (usec)(sbd)		1.42218546746E+03		Apriori delay (usec)		1.42211649352E+03		Resid mbdelay (usec)	6.47394E-03	+/- 2.0E-05
Sband delay (usec)		1.42218530302E+03		Apriori clock (usec)		3.5191231E+00		Resid sbdelay (usec)	6.88095E-02	+/- 1.6E-04
Phase delay (usec)		1.42211649791E+03		Apriori clockrate (us/s)		-3.2019450E-07		Resid phdelay (usec)	4.39050E-06	+/- 3.5E-08
Delay rate (us/s)		9.20284081362E-04		Apriori rate (us/s)		9.20114440371E-04		Resid rate (us/s)	1.69641E-07	+/- 2.5E-10
Total phase (deg)		-313.2		Apriori accel (us/s/s)		-6.67583793182E-06		Resid phase (deg)	-223.8	+/- 1.1

	RMS	Theor.	Amplitude	3.564 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	71.3	2.6	Search (1024X32)	3.314	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
amp/seg (%)	117.0	4.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
ph/frq (deg)	18.1	1.5	Inc. seg. avg.	7.382	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
amp/frq (%)	13.2	2.6	Inc. frq. avg.	3.685	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			

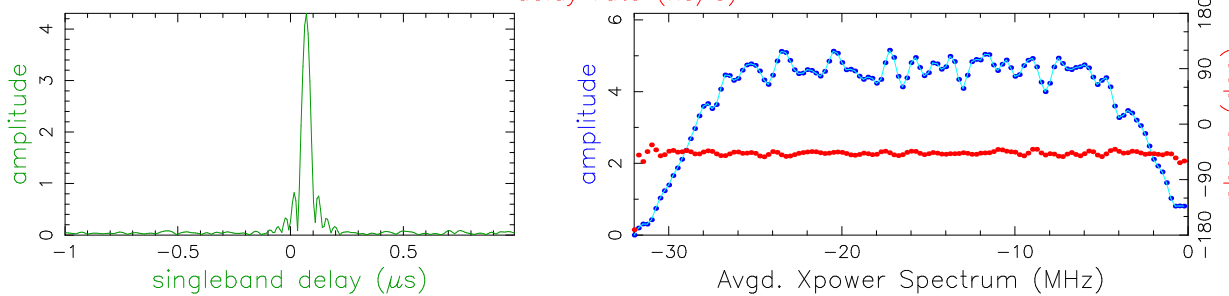
f: az 132.0 el 40.8 pa -39.8 l: az 132.7 el 35.9 pa -36.5 u,v (fr/asec) -10.352 -607.197 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fl.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/fl.W.33.zpwwdj

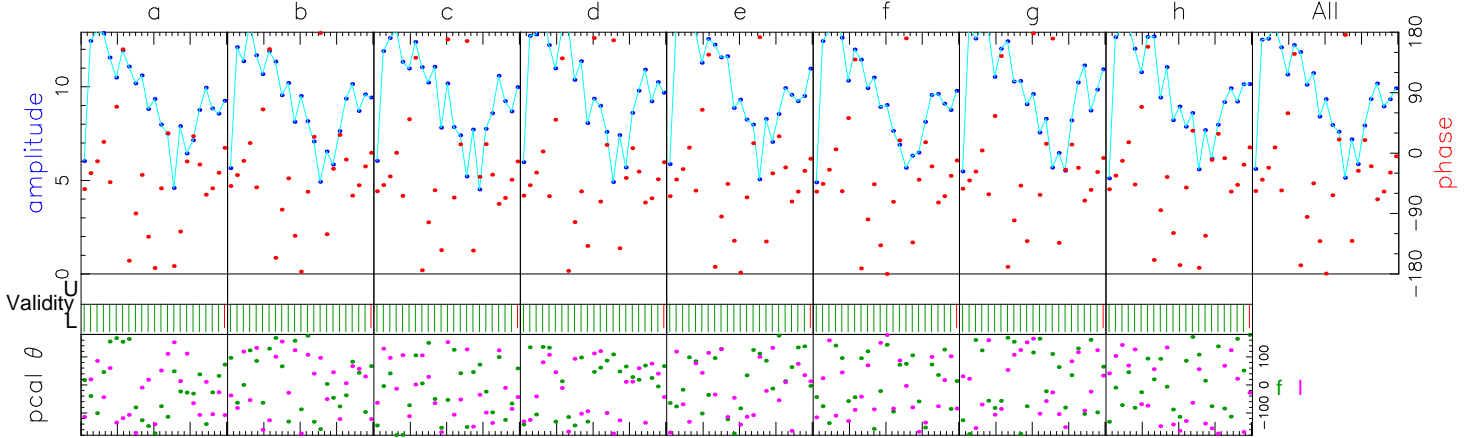


Fringe quality 5  
 SNR 129.0  
 Int time 239.986  
 Amp 4.306  
 Phase -406.5  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.069256  
 MBD 0.006903  
 Fringe rate (Hz)  
 -0.009426  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500

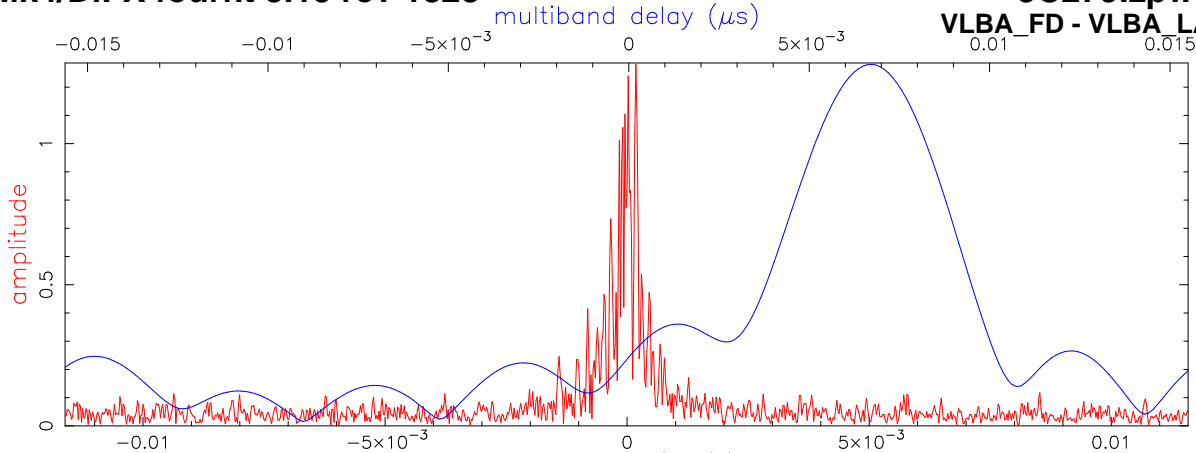
Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024426  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"



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



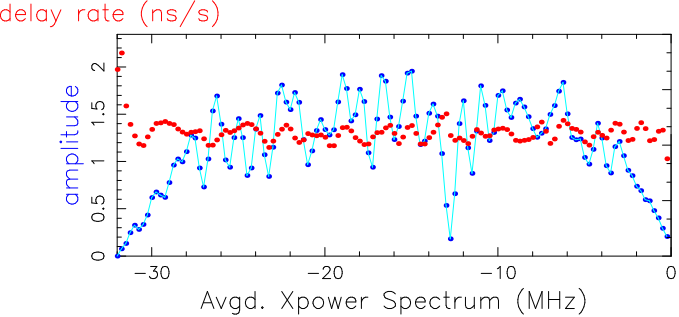
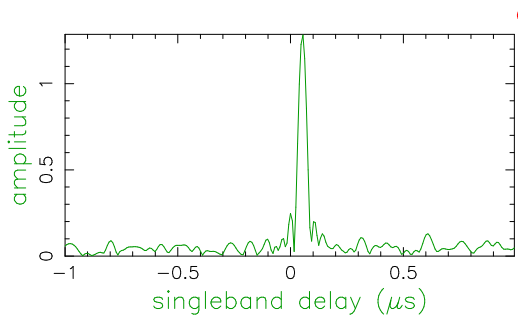
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480			
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000			
l	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000			
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
f	1000	1000	1000	1000	1000	1000	1000	1000			
l	1000	1000	1000	1000	1000	1000	1000	1000			
f	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR			
l	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR			
Group delay (usec)(sbd)		1.42218589694E+03		Apriori delay (usec)	1.42211649352E+03		Resid mbdelay (usec)	6.90342E-03	+/-	1.7E-05	
Sband delay (usec)		1.42218574902E+03		Apriori clock (usec)	3.5191231E+00		Resid sbdelay (usec)	6.92555E-02	+/-	1.3E-04	
Phase delay (usec)		1.42211649202E+03		Apriori clockrate (us/s)	-3.2019450E-07		Resid phdelay (usec)	-1.49986E-06	+/-	2.9E-08	
Delay rate (us/s)		9.20005016758E-04		Apriori rate (us/s)	9.20114440371E-04		Resid rate (us/s)	-1.09424E-07	+/-	2.1E-10	
Total phase (deg)		-135.8		Apriori accel (us/s/s)	-6.67583793182E-06		Resid phase (deg)	-406.5	+/-	0.9	
RMS	73.3	2.1		Search (1024X32)	4.207		Pcal mode: MANUAL, MANUAL				
ph/seg (deg)	132.2	3.7		Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
amp/seg (%)	8.2	1.3		Inc. seg. avg.	9.509		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016 0.016
ph/frq (deg)	3.4	2.2		Inc. frq. avg.	4.332		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	
f: az 132.0 el 40.8 pa -39.8				l: az 132.7 el 35.9 pa -36.5			u,v (fr/asec) -10.352 -607.197				simultaneous interpolator



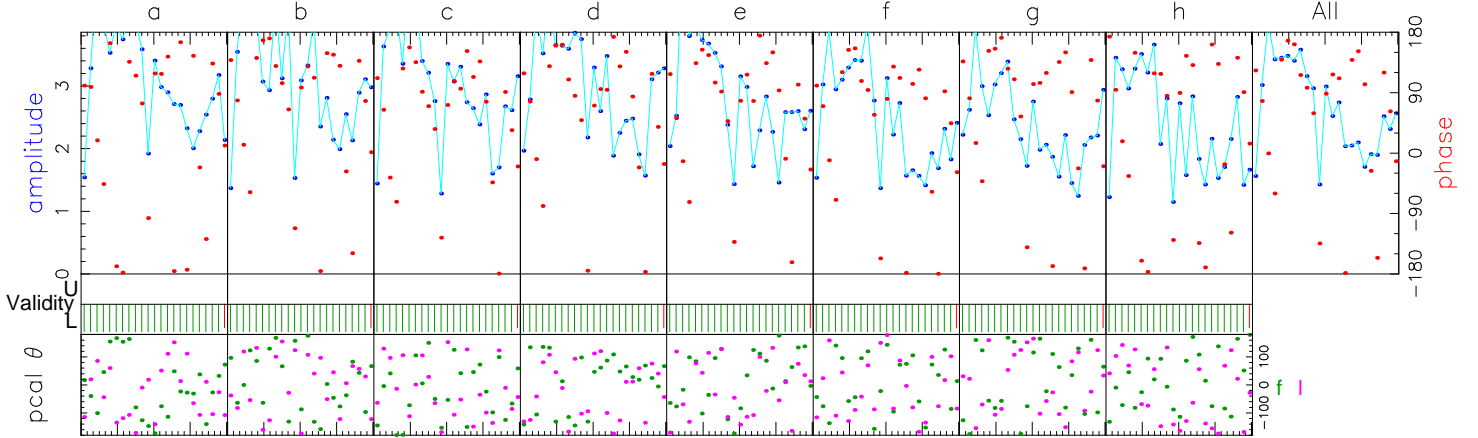
Fringe quality 6

SNR 38.5  
Int time 239.986  
Amp 1.286  
Phase -67.7  
PFD 0.0e+00  
Delays (us)  
SBD 0.052922  
MBD 0.006708  
Fringe rate (Hz) 0.014775  
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  
2017:215:024427  
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

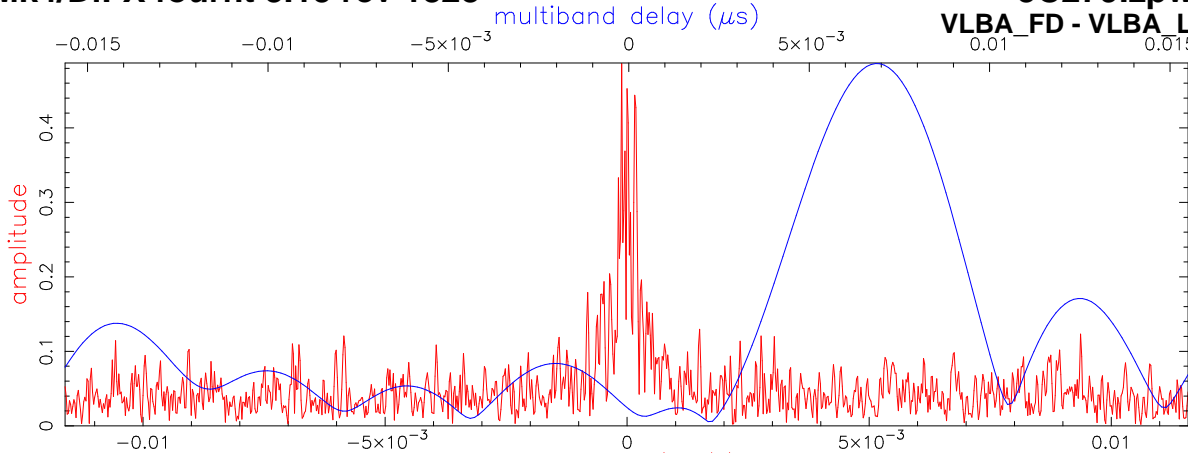


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
l	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
l	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)		1.42215445102E+03			1.42211649352E+03			6.70750E-03		+/- 5.6E-05
Sband delay (usec)		1.42216941552E+03			3.5191231E+00			5.29220E-02		+/- 4.5E-04
Phase delay (usec)		1.42211649714E+03			-3.2019450E-07			3.62025E-06		+/- 9.6E-08
Delay rate (us/s)		9.20285963473E-04			9.20114440371E-04			1.71523E-07		+/- 6.9E-10
Total phase (deg)			-157.1		-6.67583793182E-06			-67.7		+/- 3.0
Apriori delay (usec)				1.231						
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
PC period (AP's) 5, 5										
sb window (us)										-1.000 1.000
mb window (us)										-0.016 0.016
dr window (ns/s)										-0.012 0.012
ion window (TEC)										0.00 0.00
nlags: 128 t_cohere infinite										

ph/seg (deg) 71.6 7.1 Search (1024X32) 1.231 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 119.4 12.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled sb window (us) -1.000 1.000  
 ph/frq (deg) 17.2 4.2 Inc. seg. avg. 2.625 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 (%) 12.3 7.3 Inc. frq. avg. 1.321 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite ion window (TEC) 0.00 0.00

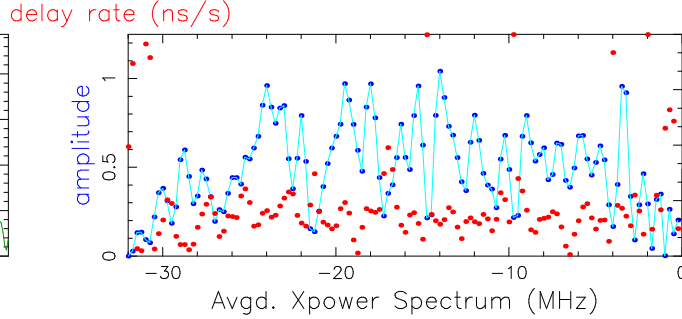
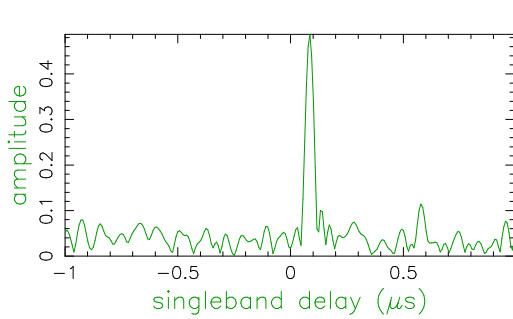
f: az 132.0 el 40.8 pa -39.8 l: az 132.7 el 35.9 pa -36.5 u,v (fr/asec) -10.352 -607.197 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fl.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/fl.W.35.zpvdj



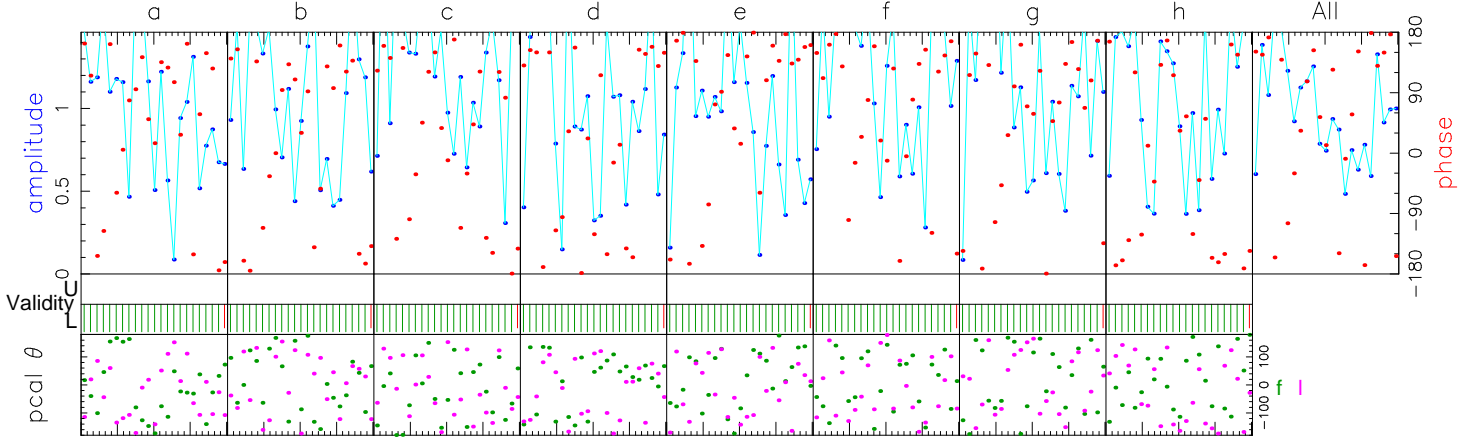
Fringe quality 9

SNR 14.6  
 Int time 239.986  
 Amp 0.487  
 Phase -207.4  
 PFD 4.7e-40  
 Delays (us)  
 SBD 0.084844  
 MBD 0.006883  
 Fringe rate (Hz)  
 -0.009841  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500



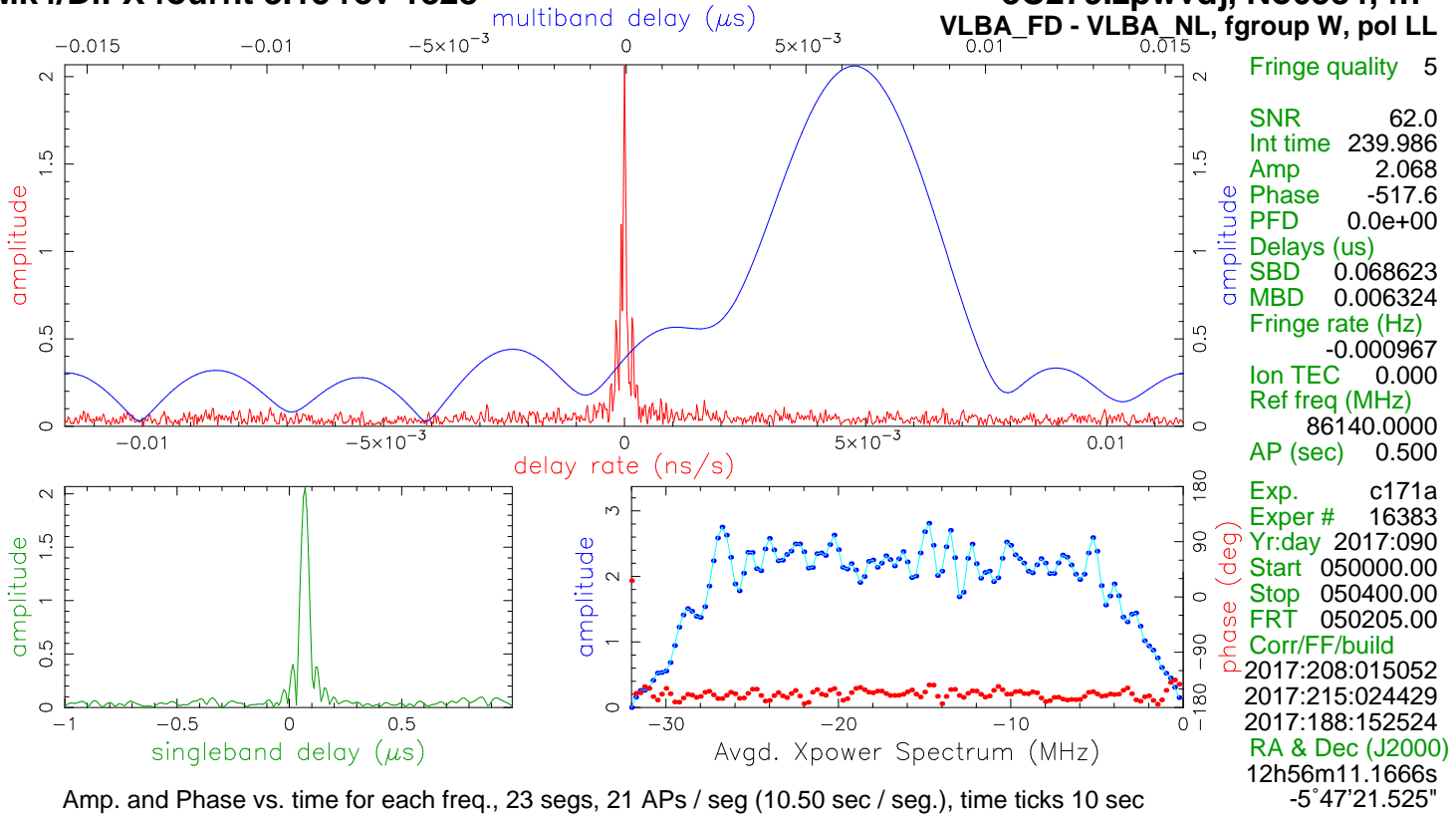
Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024428  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

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

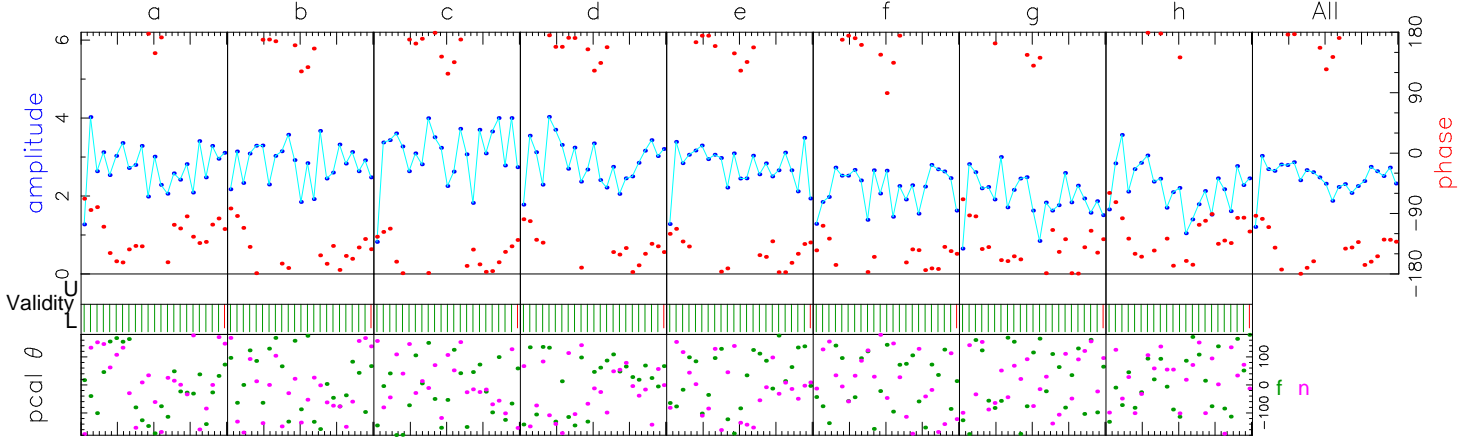


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
l	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
l	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Group delay (usec)(sbd)		1.42218587675E+03				1.42211649352E+03			6.88323E-03	+/- 1.5E-04
Sband delay (usec)		1.42220133802E+03				3.5191231E+00			8.48445E-02	+/- 1.2E-03
Phase delay (usec)		1.42211649844E+03				-3.2019450E-07			4.91962E-06	+/- 2.5E-07
Delay rate (us/s)		9.20000190313E-04				9.20114440371E-04			-1.14250E-07	+/- 1.8E-09
Total phase (deg)			-296.8			-6.67583793182E-06			-207.4	+/- 7.9
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Sample rate(MSamp/s):	64									
Data rate(Mb/s):	1024									
nlags:	128									
t_cohere:	infinite									
sb window (us)	-1.000	1.000								
mb window (us)	-0.016	0.016								
dr window (ns/s)	-0.012	0.012								
ion window (TEC)	0.00	0.00								

ph/seg (deg) 77.2 18.8 Search (1024X32) 0.484 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 119.1 32.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 16.8 11.1 Inc. seg. avg. 0.936 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 13.3 19.4 Inc. frq. avg. 0.493 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 l: az 132.7 el 35.9 pa -36.5 u,v (fr/asec) -10.352 -607.197 ion window (TEC) 0.00 0.00  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fl.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/fl.W.36.zpwwdj simultaneous interpolator



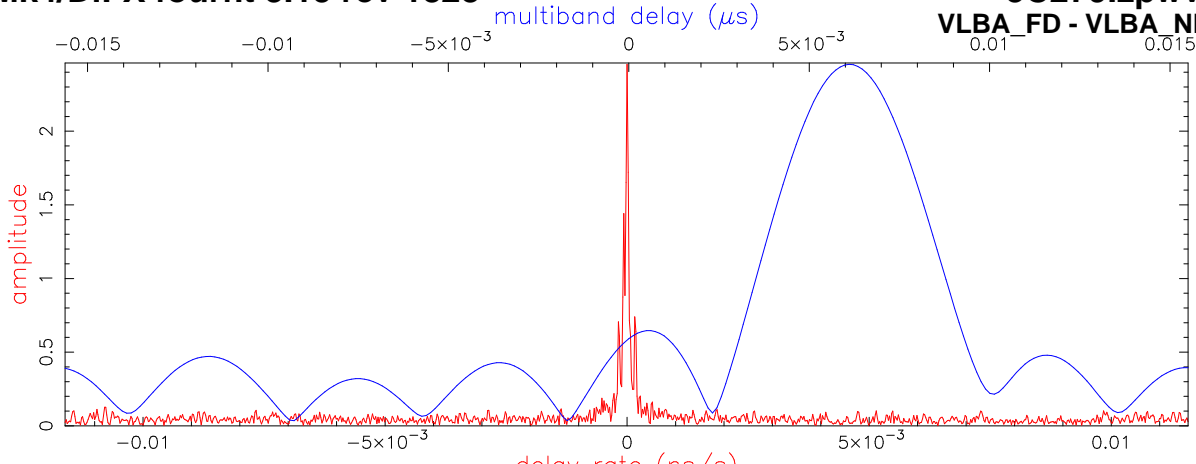
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-129.2	-162.6	-170.6	-167.5	-169.2	-171.1	-150.9	-130.1	Phase	-157.6
2.3	2.3	2.7	2.3	2.3	1.9	1.6	1.8	Ampl.	2.1
137.8	137.4	137.9	137.9	137.7	137.7	138.3	138.0	Sbd box	137.8
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	
n -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n 1000	1000	1000	1000	1000	1000	1000	1000		
f W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
n W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

Group delay (usec)(sbd)	7.58017587543E+02	Apriori delay (usec)	7.57948763918E+02	Resid mbdelay (usec)	6.32362E-03	+/-	3.5E-05
Sband delay (usec)	7.58017387418E+02	Apriori clock (usec)	-6.1271276E+00	Resid sbdelay (usec)	6.86235E-02	+/-	2.8E-04
Phase delay (usec)	7.57948758835E+02	Apriori clockrate (us/s)	-7.1775409E-07	Resid phdelay (usec)	-5.08359E-06	+/-	6.0E-08
Delay rate (us/s)	3.18428543468E-01	Apriori rate (us/s)	3.18428554697E-01	Resid rate (us/s)	-1.12288E-08	+/-	4.3E-10
Total phase (deg)	-329.0	Apriori accel (us/s/s)	-2.25414205431E-06	Resid phase (deg)	-517.6	+/-	1.8

ph/seg (deg)	35.4	Theor.	4.4	Amplitude	2.068 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	26.5	Search (1024X32)	1.855	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	19.2	Inc. seg. avg.	2.456	Inc. frq. avg.	2.146	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	16.8	Inc. frq. avg.	2.146	u,v (fr/asec)	-1835.432 -1361.247	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
						Data rate(Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00



Fringe quality 6

SNR 73.8

Int time 239.986

Amp 2.463

Phase -383.3

PFD 0.0e+00

Delays (us)

SBD 0.068517

MBD 0.006114

Fringe rate (Hz) -0.000906

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

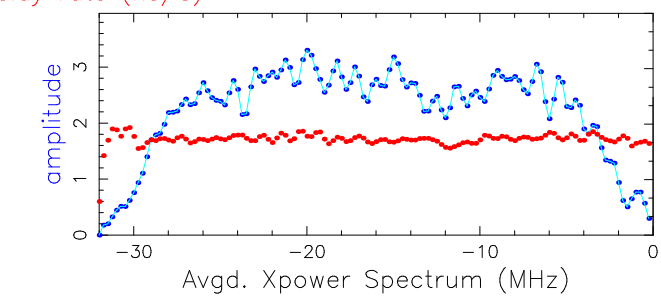
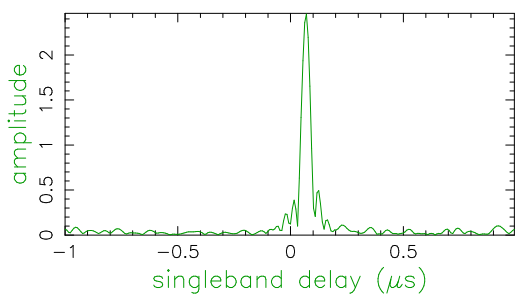
Corr/FF/build

2017:208:015052

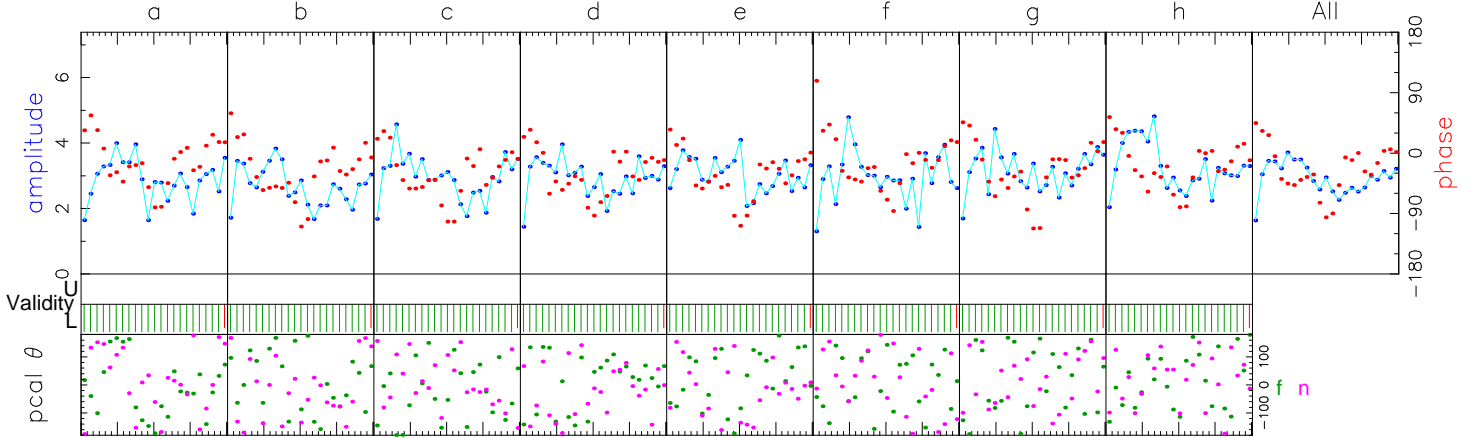
2017:215:024430

2017:188:152524

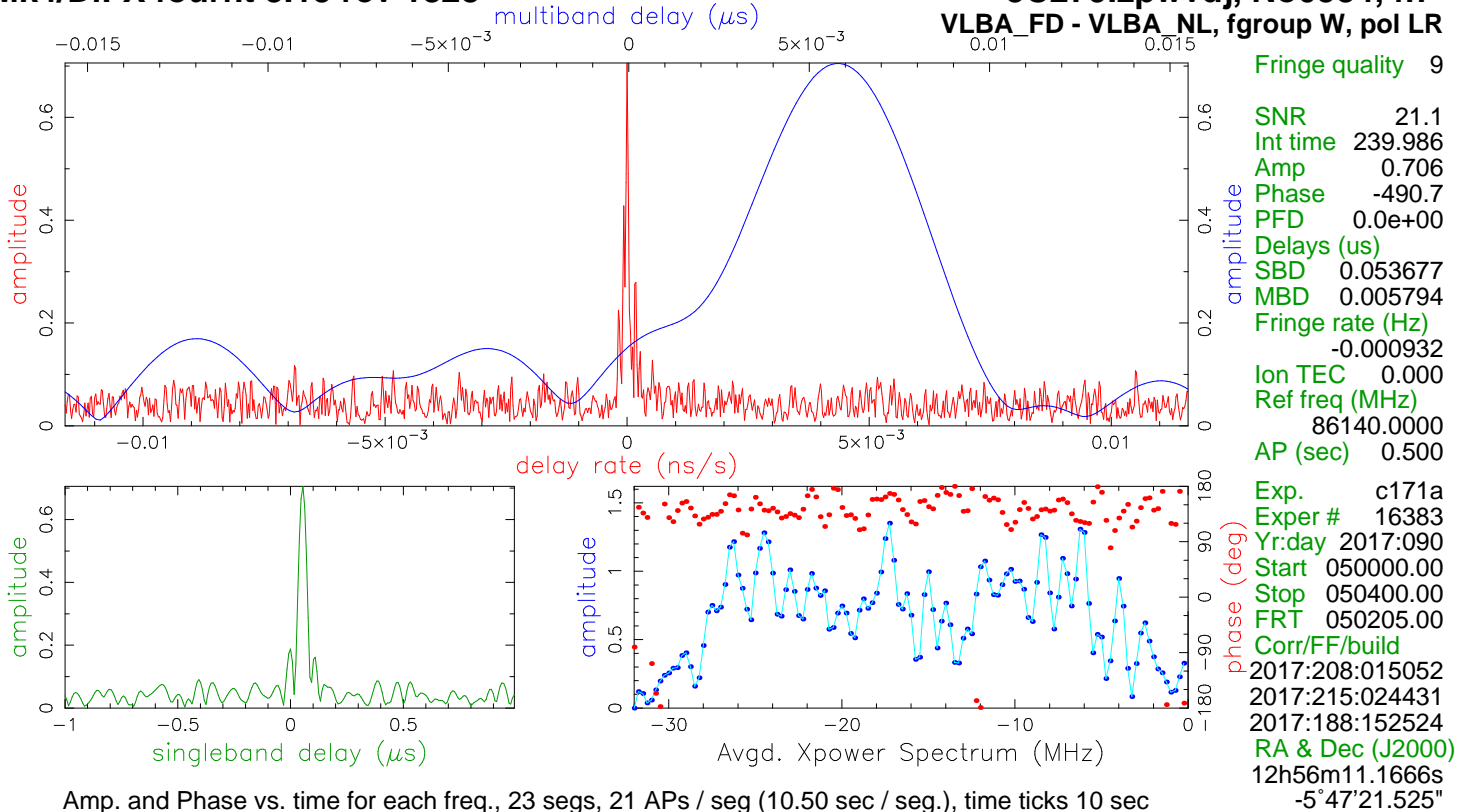
RA & Dec (J2000) 12h56m11.1666s -5°47'21.525"



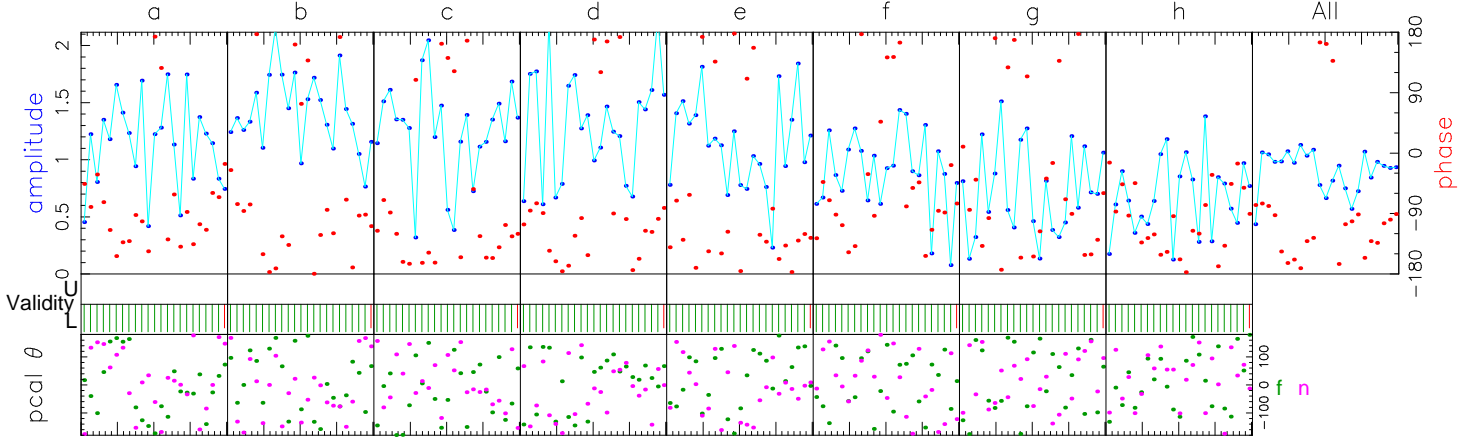
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-11.0	-26.5	-30.3	-27.9	-32.5	-16.7	-24.7	-17.4	Phase	-23.3
	2.4	2.1	2.4	2.5	2.5	2.5	2.5	2.8	Ampl.	2.5
	137.6	137.7	138.0	137.4	137.9	137.9	137.7	138.1	Sbd box	137.8
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	
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
n	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.58017377668E+02		Apriori delay (usec)		7.57948763918E+02		Resid mbdelay (usec)		6.11375E-03	+/- 2.9E-05
Sband delay (usec)	7.58017280418E+02		Apriori clock (usec)		-6.1271276E+00		Resid sbdelay (usec)		6.85165E-02	+/- 2.3E-04
Phase delay (usec)	7.57948763168E+02		Apriori clockrate (us/s)		-7.1775409E-07		Resid phdelay (usec)		-7.49840E-07	+/- 5.0E-08
Delay rate (us/s)	3.18428544176E-01		Apriori rate (us/s)		3.18428554697E-01		Resid rate (us/s)		-1.05207E-08	+/- 3.6E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.25414205431E-06		Resid phase (deg)		-383.3	+/- 1.6
	RMS	Theor.	Amplitude	2.463 +/- 0.033		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		
ph/seg (deg)	35.3	3.7	Search (1024X32)	2.258		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000
amp/seg (%)	26.9	6.5	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	-0.016	0.016
ph/frq (deg)	8.1	2.2	Inc. seg. avg.	2.923		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012
amp/frq (%)	6.9	3.8	Inc. frq. avg.	2.471		Data rate(Mb/s): 1024		ion window (TEC)	0.00	0.00
f: az 132.0 el 40.8 pa -39.8	n: az 151.6 el 38.3 pa -20.6		u,v (fr/asec) -1835.432 -1361.247				nlags: 128 t_cohere infinite		simultaneous interpolator	



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



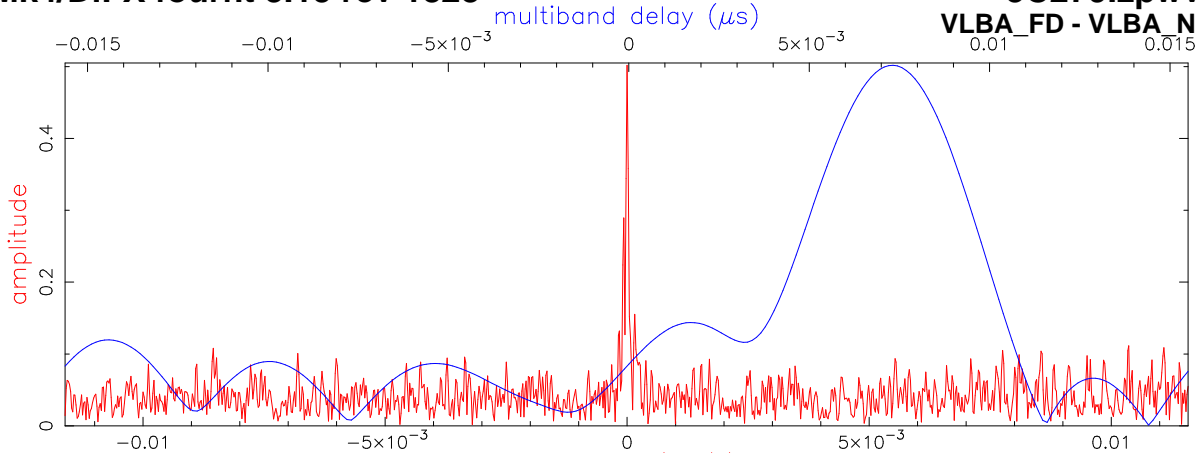
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-107.3	-139.6	-142.4	-130.1	-149.0	-111.0	-142.2	-109.4	Phase	-130.7
	0.8	0.9	1.0	1.0	0.9	0.5	0.4	0.5	Ampl.	0.7
	135.6	135.6	136.3	135.7	135.6	136.3	136.6	136.6	Sbd box	135.9
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
n	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

Group delay (usec)(sbd)	7.58017057793E+02	Apriori delay (usec)	7.57948763918E+02	Resid mbdelay (usec)	5.79388E-03	+/-	1.0E-04
Sband delay (usec)	7.58002440918E+02	Apriori clock (usec)	-6.1271276E+00	Resid sbdelay (usec)	5.36770E-02	+/-	8.1E-04
Phase delay (usec)	7.57948759705E+02	Apriori clockrate (us/s)	-7.1775409E-07	Resid phdelay (usec)	-4.21345E-06	+/-	1.7E-07
Delay rate (us/s)	3.18428543880E-01	Apriori rate (us/s)	3.18428554697E-01	Resid rate (us/s)	-1.08167E-08	+/-	1.3E-09
Total phase (deg)	-302.1	Apriori accel (us/s/s)	-2.25414205431E-06	Resid phase (deg)	-490.7	+/-	5.4

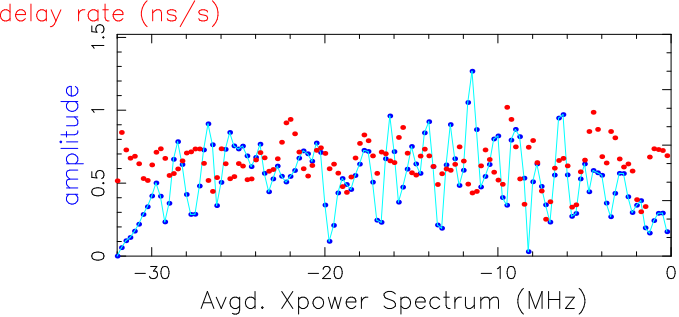
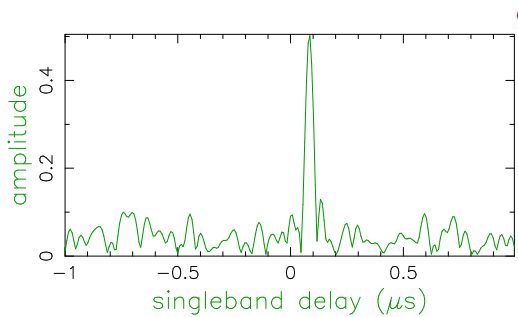
ph/seg (deg)	41.2	RMS	13.0	Theor.	13.0	Amplitude	0.706 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	37.5	Search (1024X32)	0.648	Interp.	0.000	Apriori clock (usec)	6.648	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	18.6	Inc. seg. avg.	0.881	Inc. frq. avg.	0.725	Apriori clockrate (us/s)	-7.1775409E-07	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	33.5	Inc. frq. avg.	0.725	u,v (fr/asec)	-1835.432 -1361.247	Apriori rate (us/s)	3.18428554697E-01	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
						Apriori accel (us/s/s)	-2.25414205431E-06	Data rate(Mb/s):	1024	dr window (ns/s)	-0.012 0.012
								nlags:	128	ion window (TEC)	0.00 0.00

f: az 132.0 el 40.8 pa -39.8 n: az 151.6 el 38.3 pa -20.6 u,v (fr/asec) -1835.432 -1361.247 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fn..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/fn.W.39.zpwvdj

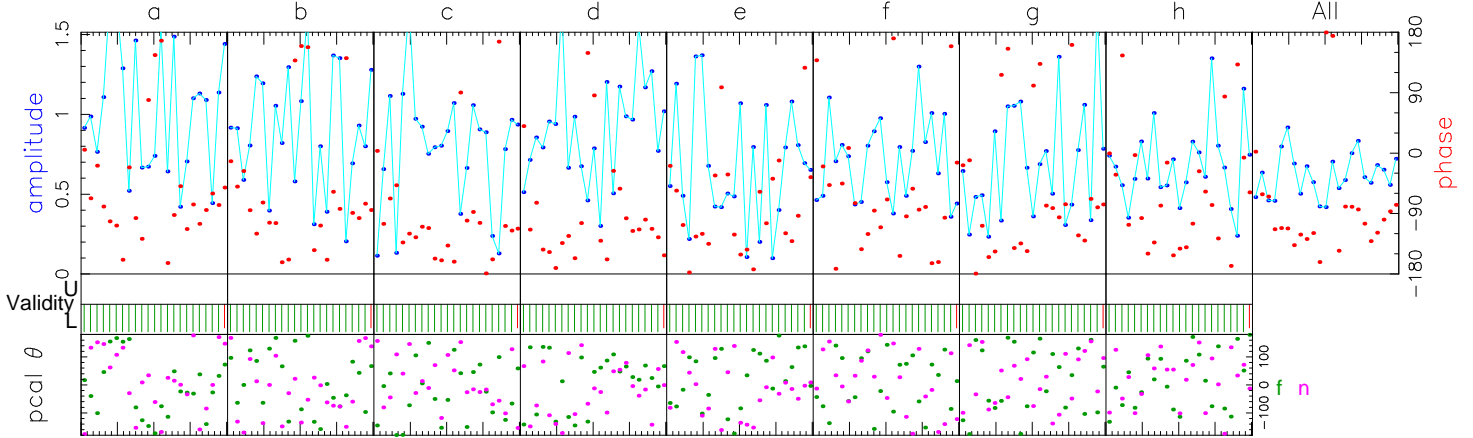


Fringe quality 9  
 SNR 15.1  
 Int time 239.986  
 Amp 0.505  
 Phase -468.9  
 PFD 1.7e-43  
 Delays (us)  
 SBD 0.083738  
 MBD 0.007289  
 Fringe rate (Hz)  
 -0.000618  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500



Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024432  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

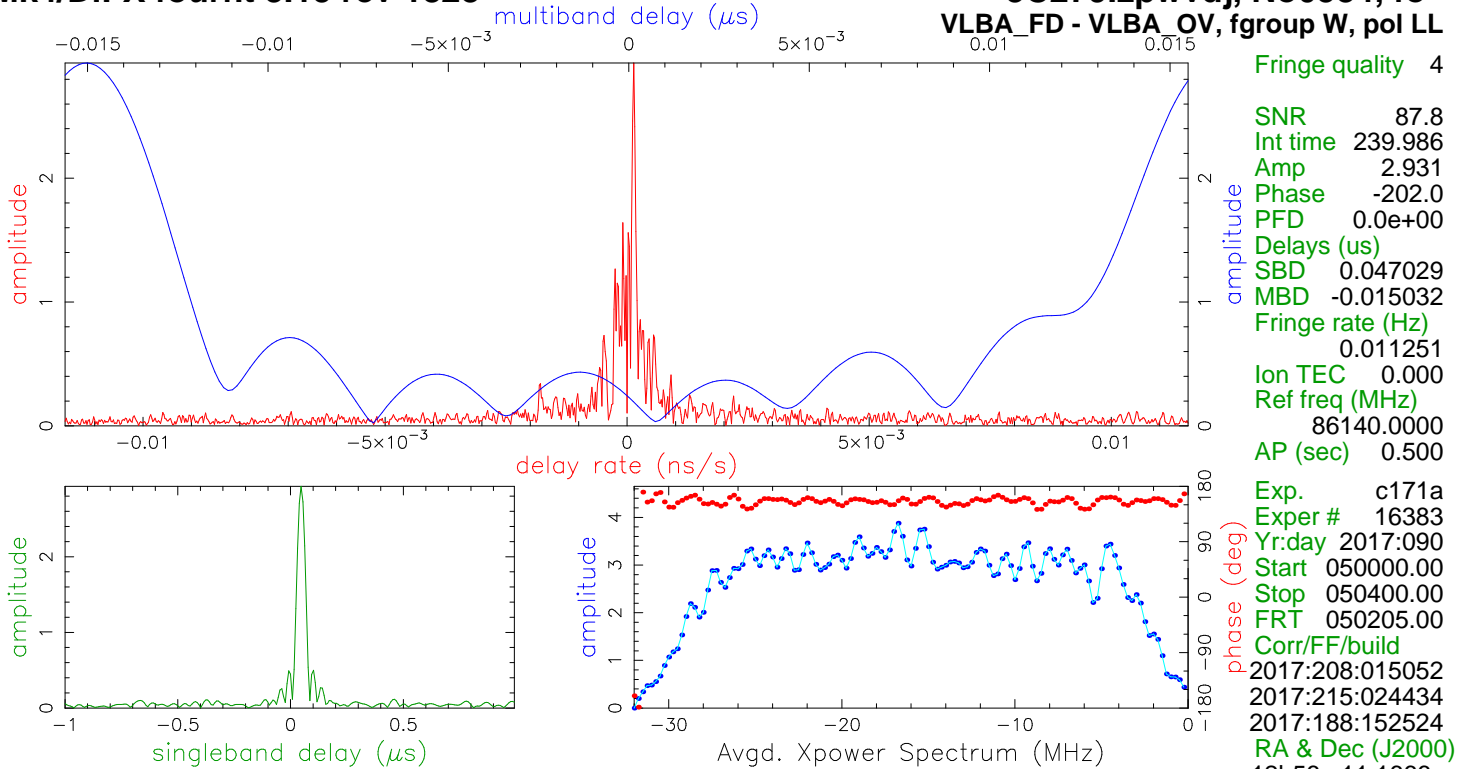
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



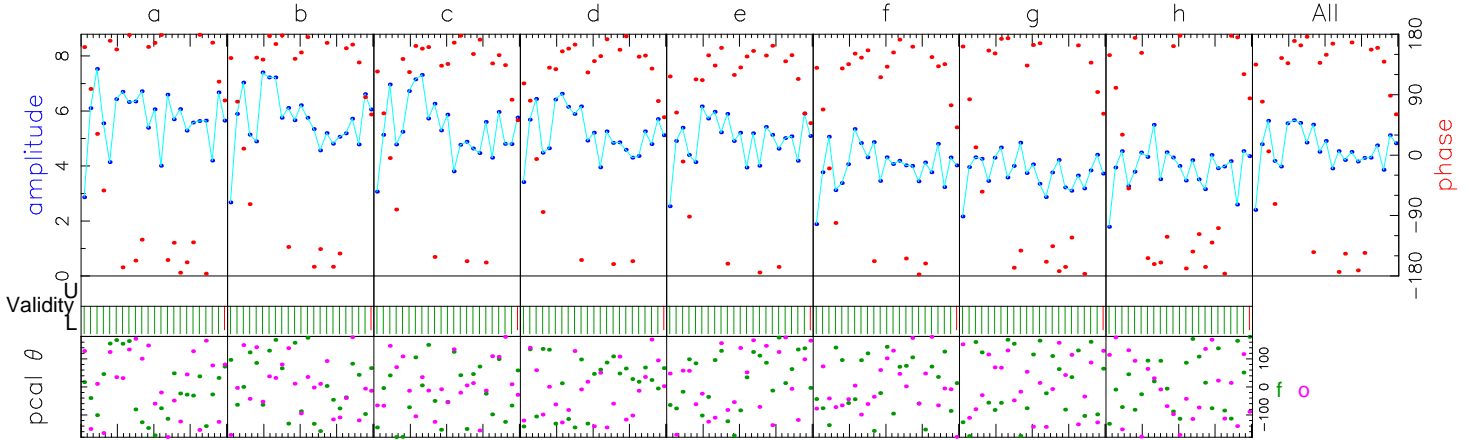
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
n	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Tracks	
Group delay (usec)(sbd)	7.58018552793E+02		Apriori delay (usec)		7.57948763918E+02		Resid mbdelay (usec)		7.28888E-03	+/- 1.4E-04
Sband delay (usec)	7.58032502418E+02		Apriori clock (usec)		-6.1271276E+00		Resid sbdelay (usec)		8.37385E-02	+/- 1.1E-03
Phase delay (usec)	7.57948760405E+02		Apriori clockrate (us/s)		-7.1775409E-07		Resid phdelay (usec)		-3.51316E-06	+/- 2.4E-07
Delay rate (us/s)	3.18428547522E-01		Apriori rate (us/s)		3.18428554697E-01		Resid rate (us/s)		-7.17437E-09	+/- 1.8E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.25414205431E-06		Resid phase (deg)		-468.9	+/- 7.6
	RMS	Theor.	Amplitude	0.505 +/- 0.033	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	40.5	18.2	Search (1024X32)	0.474	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000
amp/seg (%)	34.5	31.7	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		-0.016	0.016
ph/frq (deg)	16.1	10.7	Inc. seg. avg.	0.590	Sample rate(MSamp/s): 64		dr window (ns/s)		-0.012	0.012
amp/frq (%)	24.1	18.7	Inc. frq. avg.	0.507	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 n: az 151.6 el 38.3 pa -20.6 u,v (fr/asec) -1835.432 -1361.247 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fn..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/fn.W.40.zpwvdj





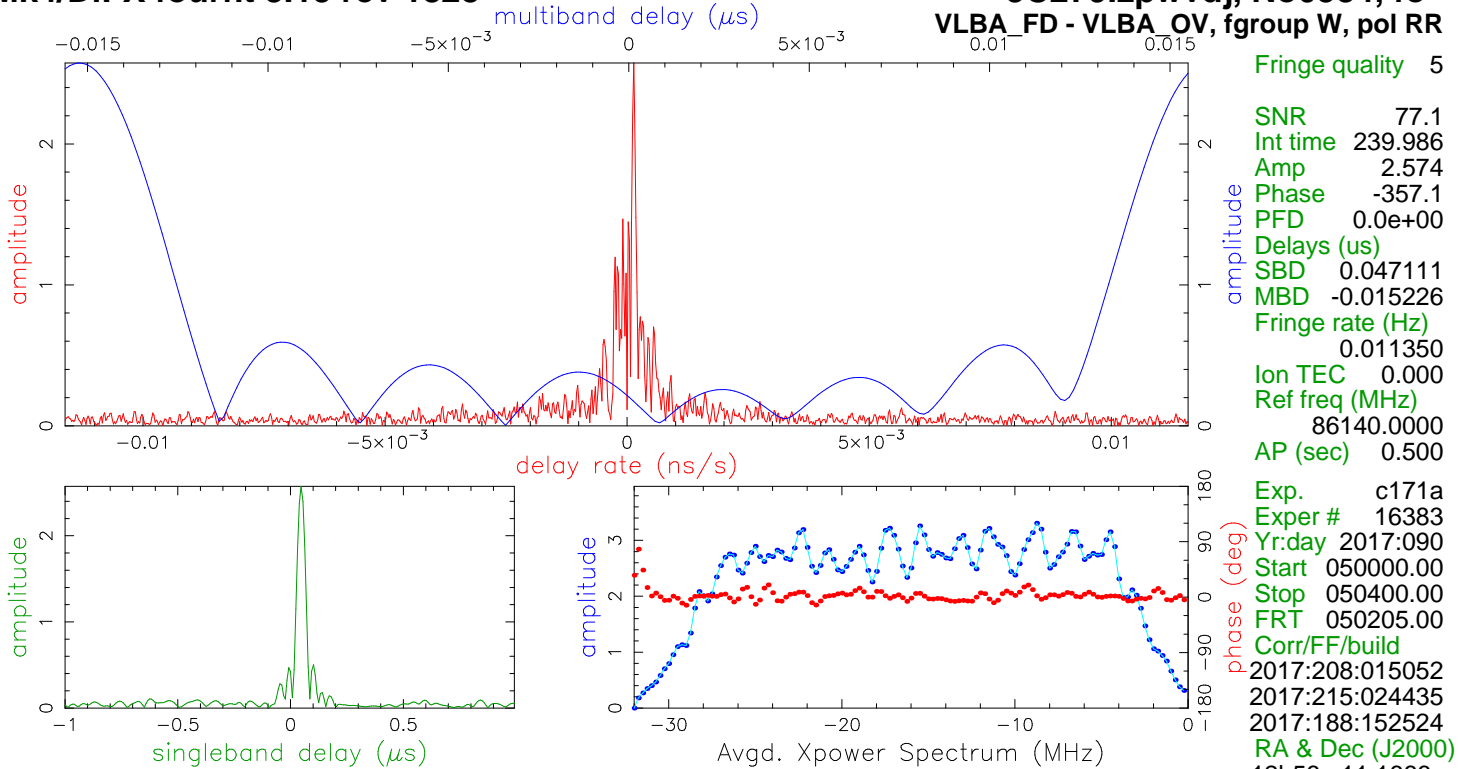
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



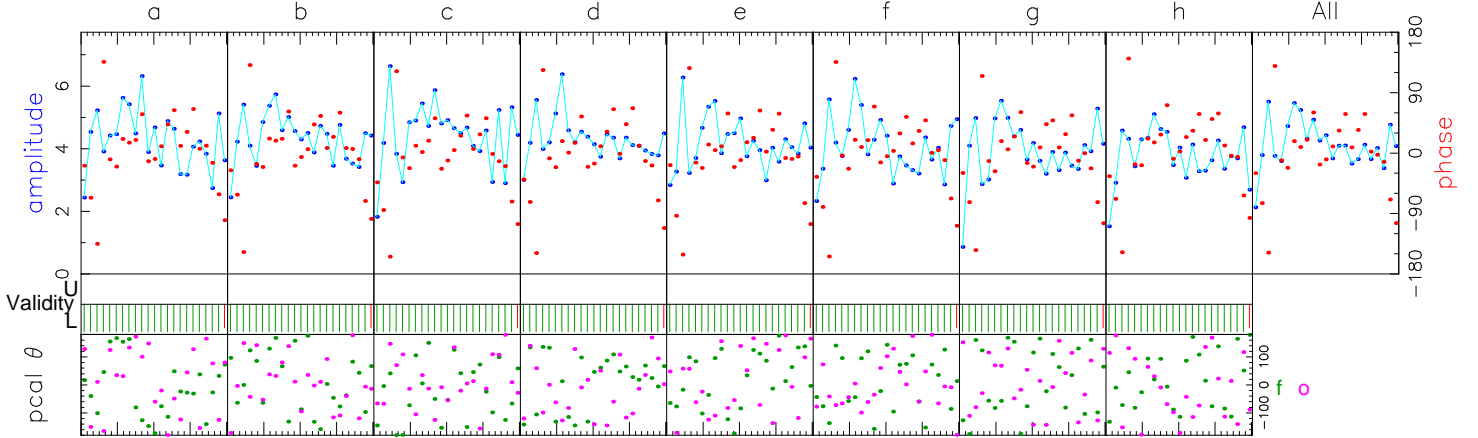
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All		
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480				
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000				
o	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000				
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0				
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0				
f	1000	1000	1000	1000	1000	1000	1000	1000				
o	1000	1000	1000	1000	1000	1000	1000	1000				
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL				
o	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL				
Group delay (usec)(sbd)	4.09690648927E+03		Apriori delay (usec)		4.09685902092E+03		Resid mbdelay (usec)		-1.50317E-02	+/- 2.5E-05		
Sband delay (usec)	4.09690604942E+03		Apriori clock (usec)		-2.9324386E+00		Resid sbdelay (usec)		4.70285E-02	+/- 2.0E-04		
Phase delay (usec)	4.09685902602E+03		Apriori clockrate (us/s)		-6.8065150E-07		Resid phdelay (usec)		5.09444E-06	+/- 4.2E-08		
Delay rate (us/s)	-1.76157974160E-01		Apriori rate (us/s)		-1.76158104776E-01		Resid rate (us/s)		1.30616E-07	+/- 3.0E-10		
Total phase (deg)			Apriori accel (us/s/s)		-2.06974181303E-05		Resid phase (deg)		-202.0	+/- 1.3		
RMS	56.5	3.1	Amplitude		2.931 +/- 0.033		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	62.5	5.5	Search (1024X32)		2.846		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
amp/seg (%)	19.3	1.8	Interp.		0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016 0.016	
ph/frq (deg)	18.0	3.2	Inc. seg. avg.		4.604		Sample rate(MSamp/s): 64			dr window (ns/s)	-0.012 0.012	
amp/frq (%)			Inc. frq. avg.		3.054		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 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 999.019 -672.726 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fo..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/fo.W.41.zpwvdj



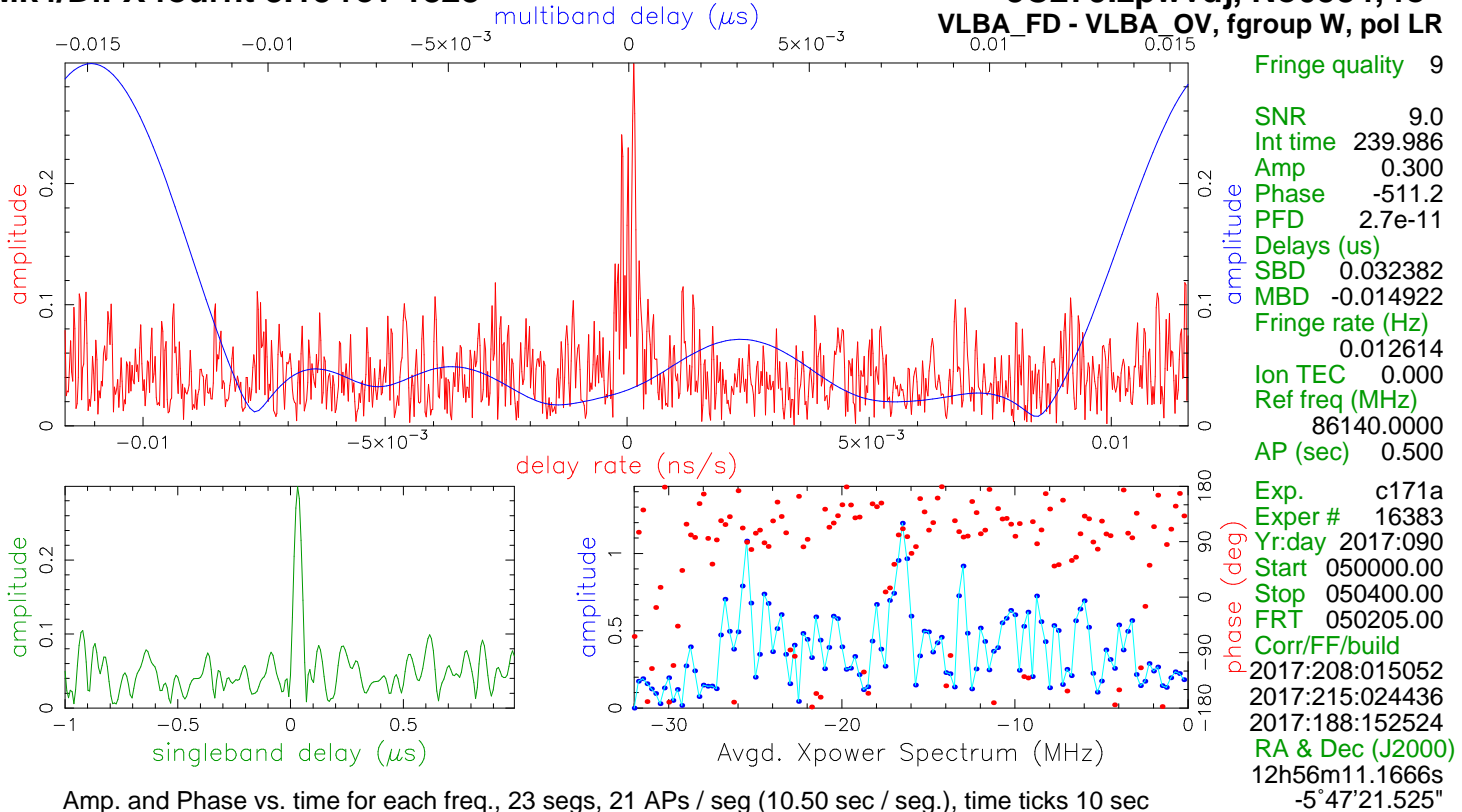
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



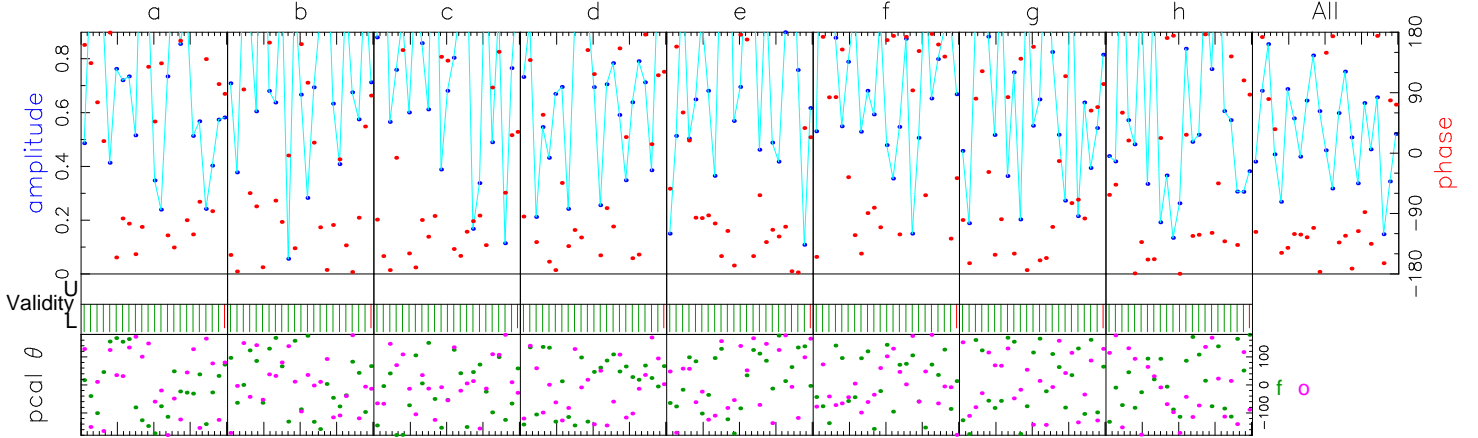
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480			
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used		
o	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
f:o	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		
o	1000	1000	1000	1000	1000	1000	1000	1000			
f	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids		
o	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks		
									Chan ids		
									Tracks		
Group delay (usec)(sbd)		4.09690629533E+03		Apriori delay (usec)		4.09685902092E+03		Resid mbdelay (usec)	-1.52256E-02	+/- 2.8E-05	
Sband delay (usec)		4.09690613192E+03		Apriori clock (usec)		-2.9324386E+00		Resid sbdelay (usec)	4.71110E-02	+/- 2.2E-04	
Phase delay (usec)		4.09685902102E+03		Apriori clockrate (us/s)		-6.8065150E-07		Resid phdelay (usec)	9.42630E-08	+/- 4.8E-08	
Delay rate (us/s)		-1.76157973018E-01		Apriori rate (us/s)		-1.76158104776E-01		Resid rate (us/s)	1.31758E-07	+/- 3.5E-10	
Total phase (deg)			-334.7	Apriori accel (us/s/s)		-2.06974181303E-05		Resid phase (deg)	-357.1	+/- 1.5	
RMS	57.1	3.6		Amplitude	2.574 +/- 0.033			Pcal mode: MANUAL, MANUAL			
ph/seg (deg)	57.1	3.6		Search (1024X32)	2.514			Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
amp/seg (%)	67.4	6.2		Interp.	0.000			Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016 0.016
ph/frq (deg)	5.2	2.1		Inc. seg. avg.	4.137			Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012 0.012
amp/frq (%)	5.1	3.7		Inc. frq. avg.	2.580			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 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 999.019 -672.726 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fo..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/fo.W.42.zpwvdj



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



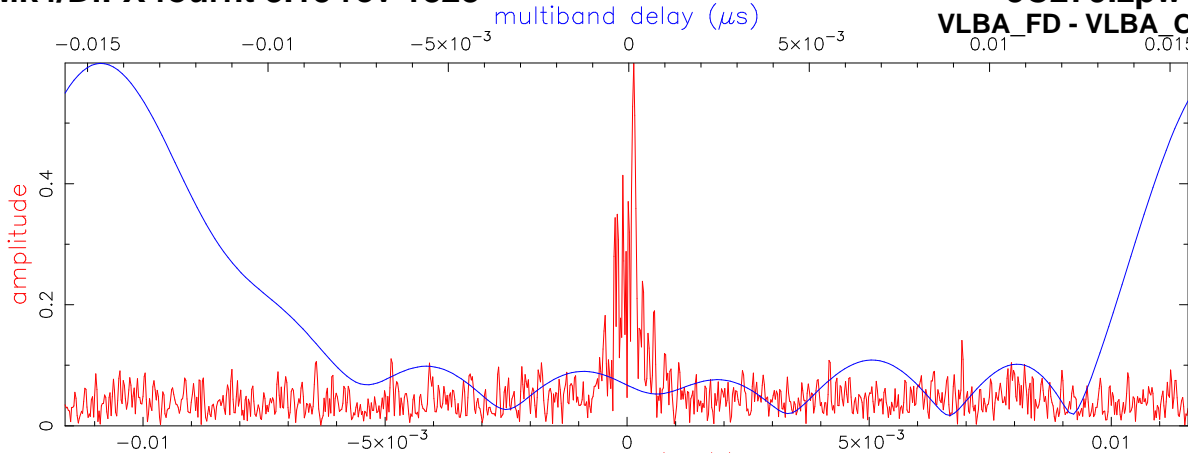
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-162.1	-143.9	-141.9	-171.6	-140.0	-161.2	-153.7	-142.7	Phase	-151.2
0.3	0.3	0.4	0.3	0.5	0.3	0.2	0.2	Ampl.	0.3
210.1	132.3	134.1	133.2	132.2	133.8	247.5	208.3	Sbd box	133.1
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
f -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
o -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f:0 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:0 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	
o 1000	1000	1000	1000	1000	1000	1000	1000		
f W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
o W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

Group delay (usec)(sbd)	4.09690659933E+03	Apriori delay (usec)	4.09685902092E+03	Resid mbdelay (usec)	-1.49216E-02	+/-	2.4E-04
Sband delay (usec)	4.09689140292E+03	Apriori clock (usec)	-2.9324386E+00	Resid sbdelay (usec)	3.23820E-02	+/-	1.9E-03
Phase delay (usec)	4.09685901605E+03	Apriori clockrate (us/s)	-6.8065150E-07	Resid phdelay (usec)	-4.87523E-06	+/-	4.1E-07
Delay rate (us/s)	-1.76157958337E-01	Apriori rate (us/s)	-1.76158104776E-01	Resid rate (us/s)	1.46439E-07	+/-	3.0E-09
Total phase (deg)	-488.8	Apriori accel (us/s/s)	-2.06974181303E-05	Resid phase (deg)	-511.2	+/-	12.8

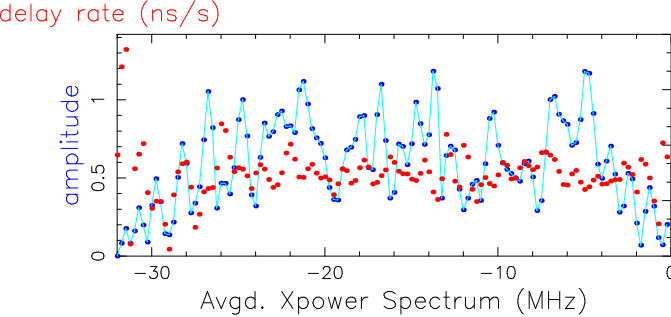
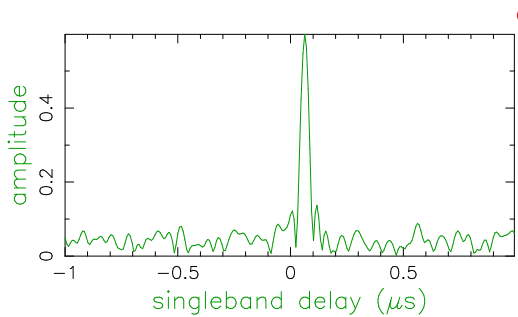
ph/seg (deg)	66.1	Theor.	30.6	Amplitude	0.300 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	96.5	Search (1024X32)	0.288	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	12.8	Interp.	0.000	Inc. seg. avg.	0.463	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	32.4	Inc. frq. avg.	0.291	Inc. frq. avg.	0.291	Sample rate (MSamp/s):	64	mb window (us)	-0.016 0.016
						Data rate (Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00

f: az 132.0 el 40.8 pa -39.8 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 999.019 -672.726 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fo.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/fo.W.43.zpwvdj

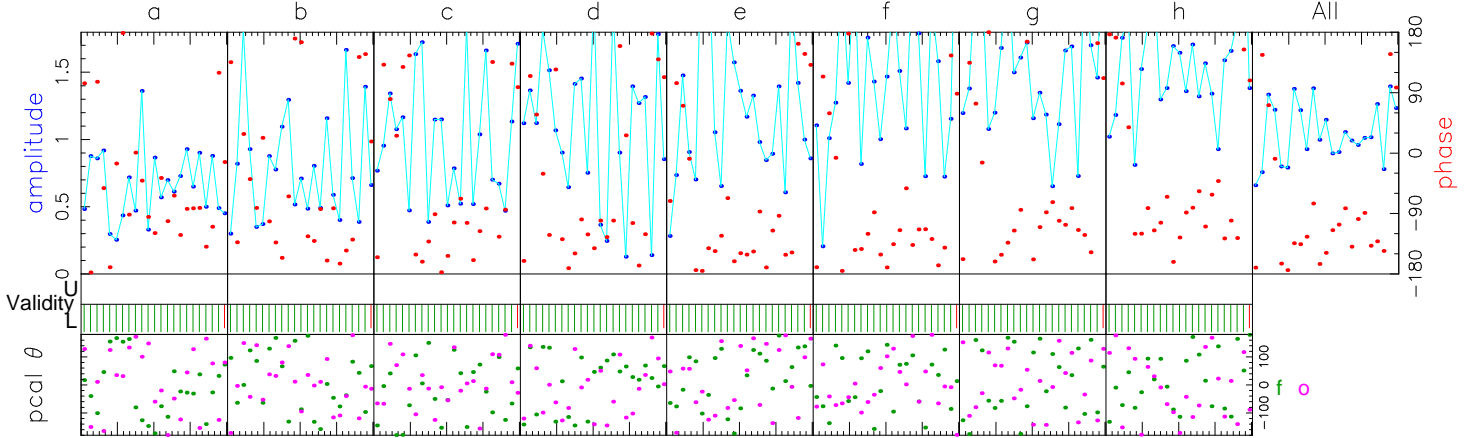


Fringe quality 8  
 SNR 18.0  
 Int time 239.986  
 Amp 0.599  
 Phase -497.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.063361  
 MBD -0.014626  
 Fringe rate (Hz) 0.011365  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.500



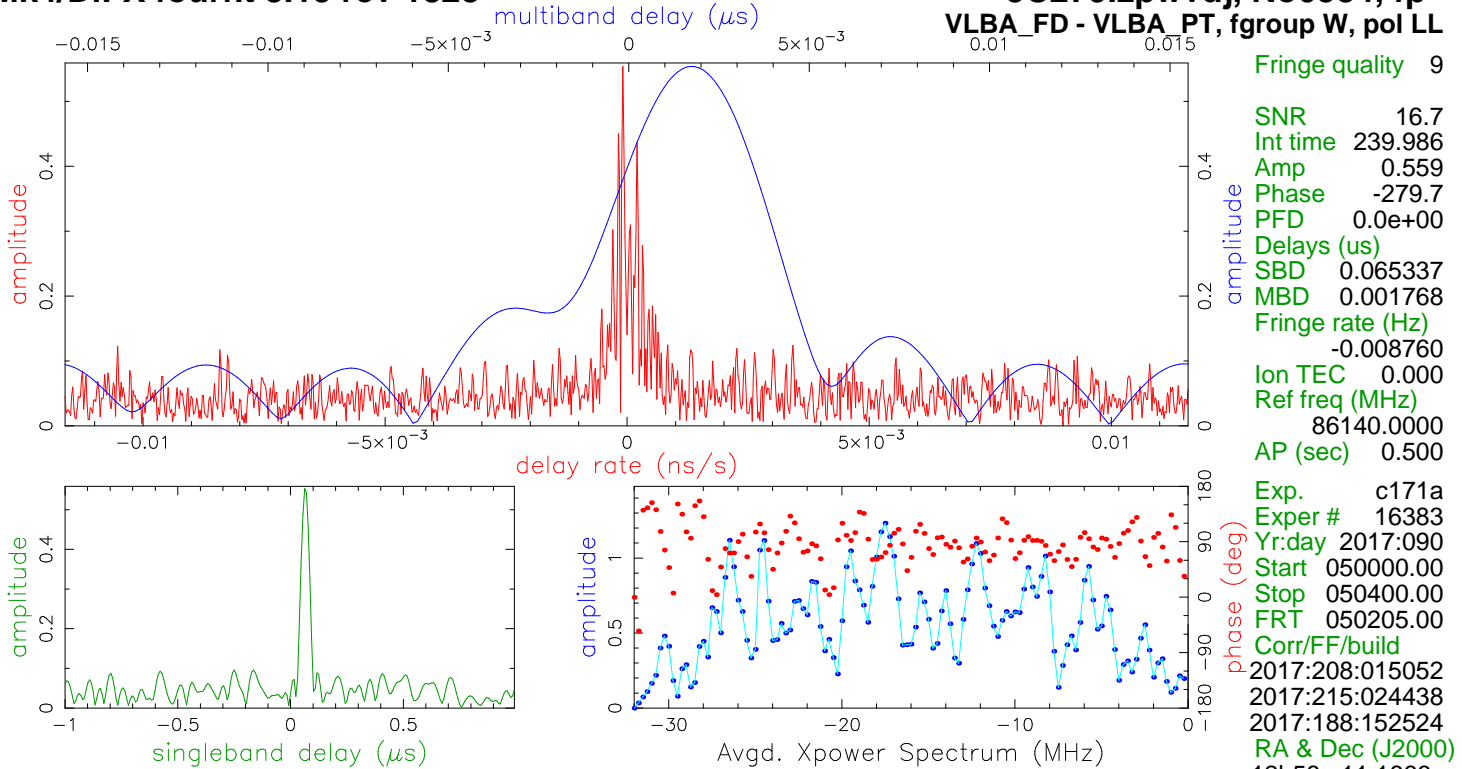
Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024437  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

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

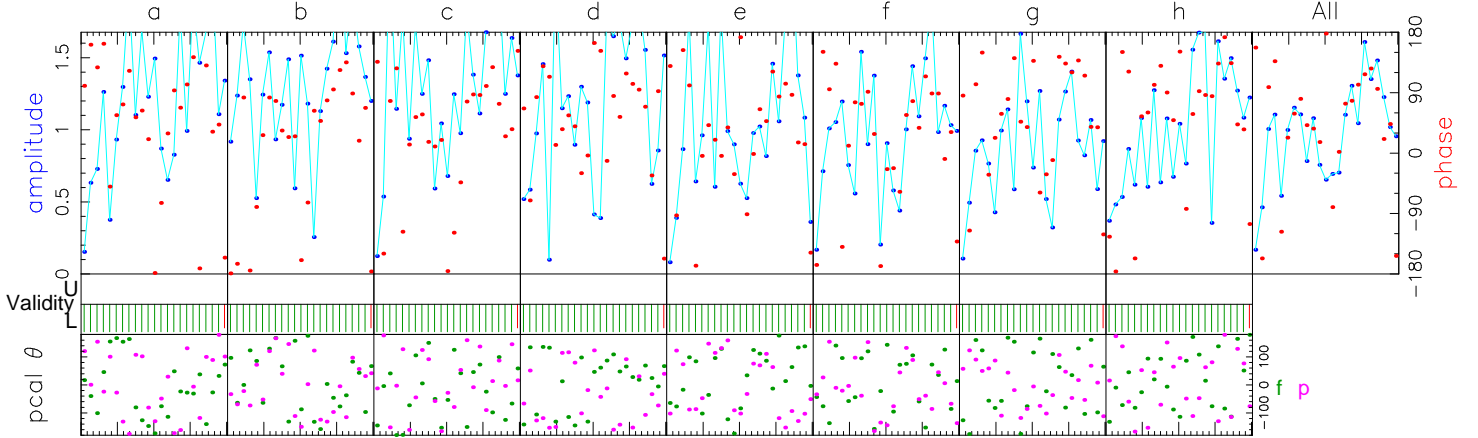


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-90.9	-131.2	-157.8	-145.3	-150.4	-145.5	-137.8	-117.9	Phase	-137.2
0.3	0.4	0.4	0.6	0.8	0.9	0.8	0.8	Ampl.	0.6
136.8	137.2	136.0	136.5	137.2	137.0	138.0	137.4	Sbd box	137.1
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
f -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
o -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f:0 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:0 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	
o 1000	1000	1000	1000	1000	1000	1000	1000		
f W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
o W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	4.09690689508E+03	Apriori delay (usec)	4.09685902092E+03	Resid mbdelay (usec)	-1.46258E-02	+/-	1.2E-04		
Sband delay (usec)	4.09692238192E+03	Apriori clock (usec)	-2.9324386E+00	Resid sbdelay (usec)	6.33610E-02	+/-	9.6E-04		
Phase delay (usec)	4.09685901650E+03	Apriori clockrate (us/s)	-6.8065150E-07	Resid phdelay (usec)	-4.42326E-06	+/-	2.1E-07		
Delay rate (us/s)	-1.76157972843E-01	Apriori rate (us/s)	-1.76158104776E-01	Resid rate (us/s)	1.31933E-07	+/-	1.5E-09		
Total phase (deg)	-474.8	Apriori accel (us/s/s)	-2.06974181303E-05	Resid phase (deg)	-497.2	+/-	6.4		

ph/seg (deg) 59.6 15.3 Theor. Amplitude 0.599 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 83.1 26.7 Search (1024X32) 0.594 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 23.4 9.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 36.1 15.8 Inc. seg. avg. 1.012 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 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 999.019 -672.726 ion window (TEC) 0.00 0.00  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fo..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/fo.W.44.zpwvdj simultaneous interpolator

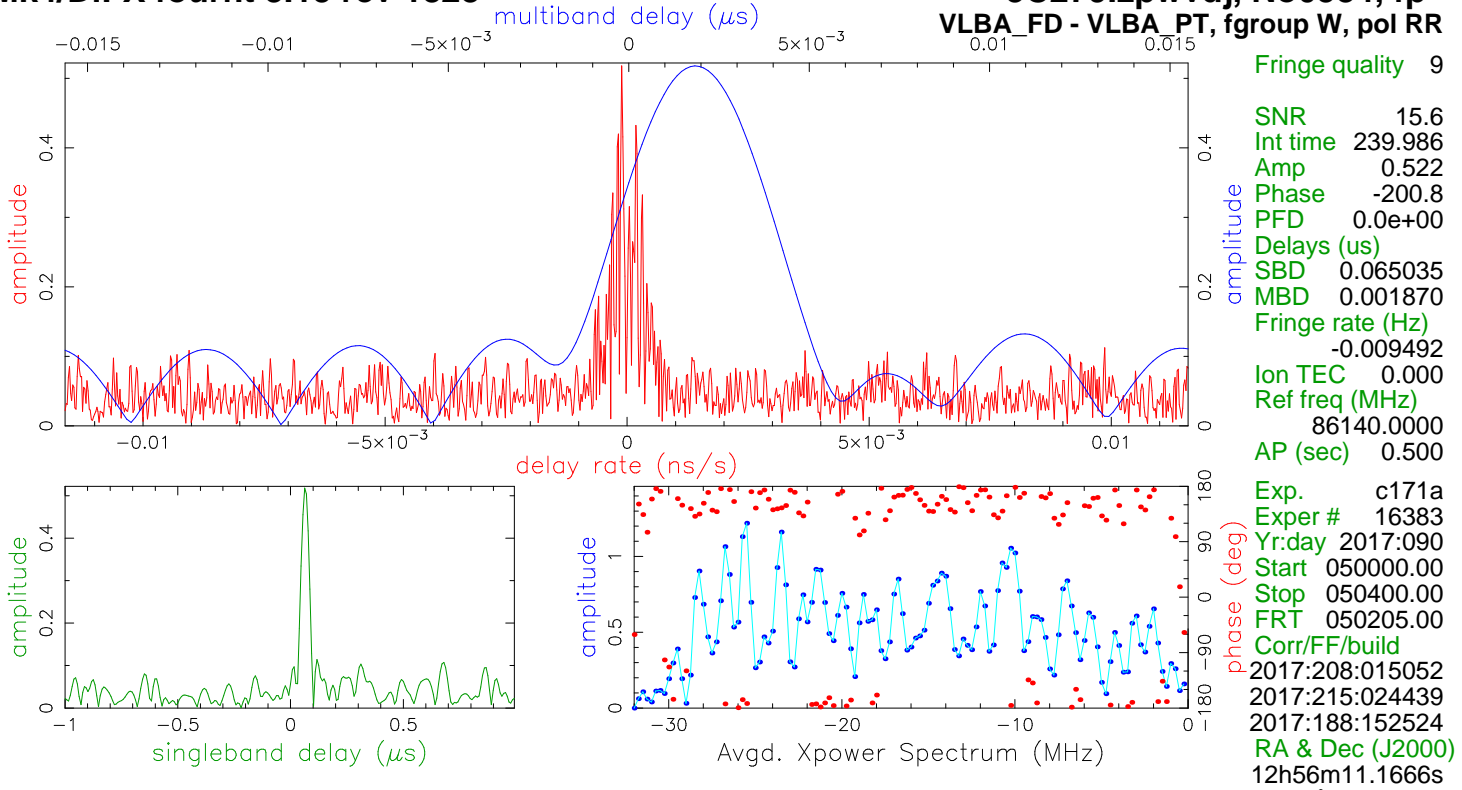


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

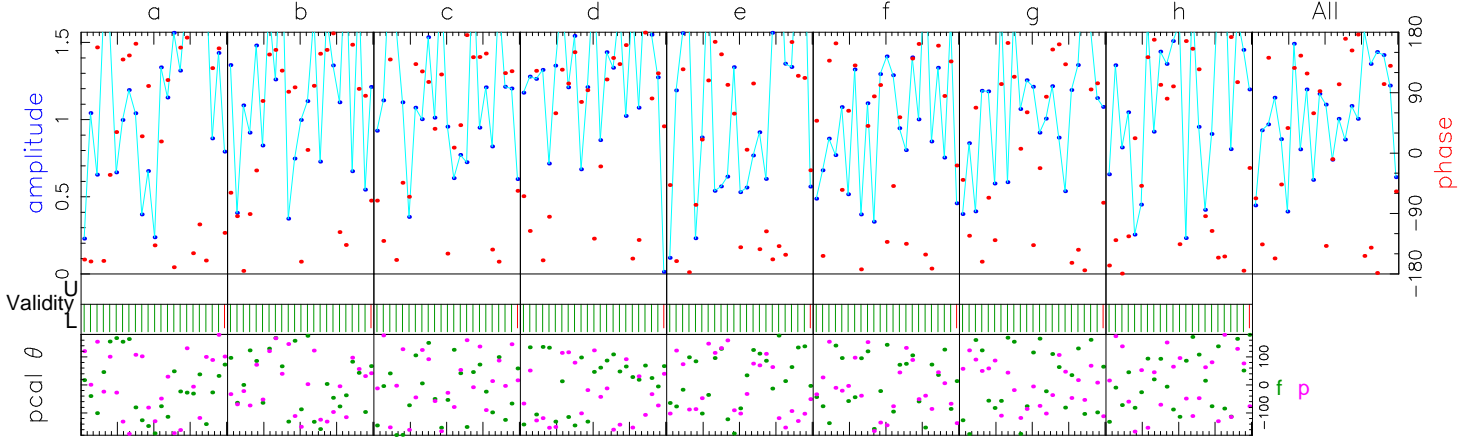


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
99.7	91.1	72.9	62.3	57.4	69.5	86.8	104.6	104.6	Phase	80.3
0.6	0.6	0.7	0.7	0.6	0.5	0.4	0.6	0.6	Ampl.	0.6
137.7	137.2	137.3	137.1	137.4	138.0	136.4	137.8	137.8	Sbd box	137.4
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	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	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)	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) 74.4 16.4 Theor. Amplitude 0.559 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 94.5 28.6 Search (1024X32) 0.522 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 18.9 9.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 16.7 16.9 Inc. seg. avg. 0.932 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

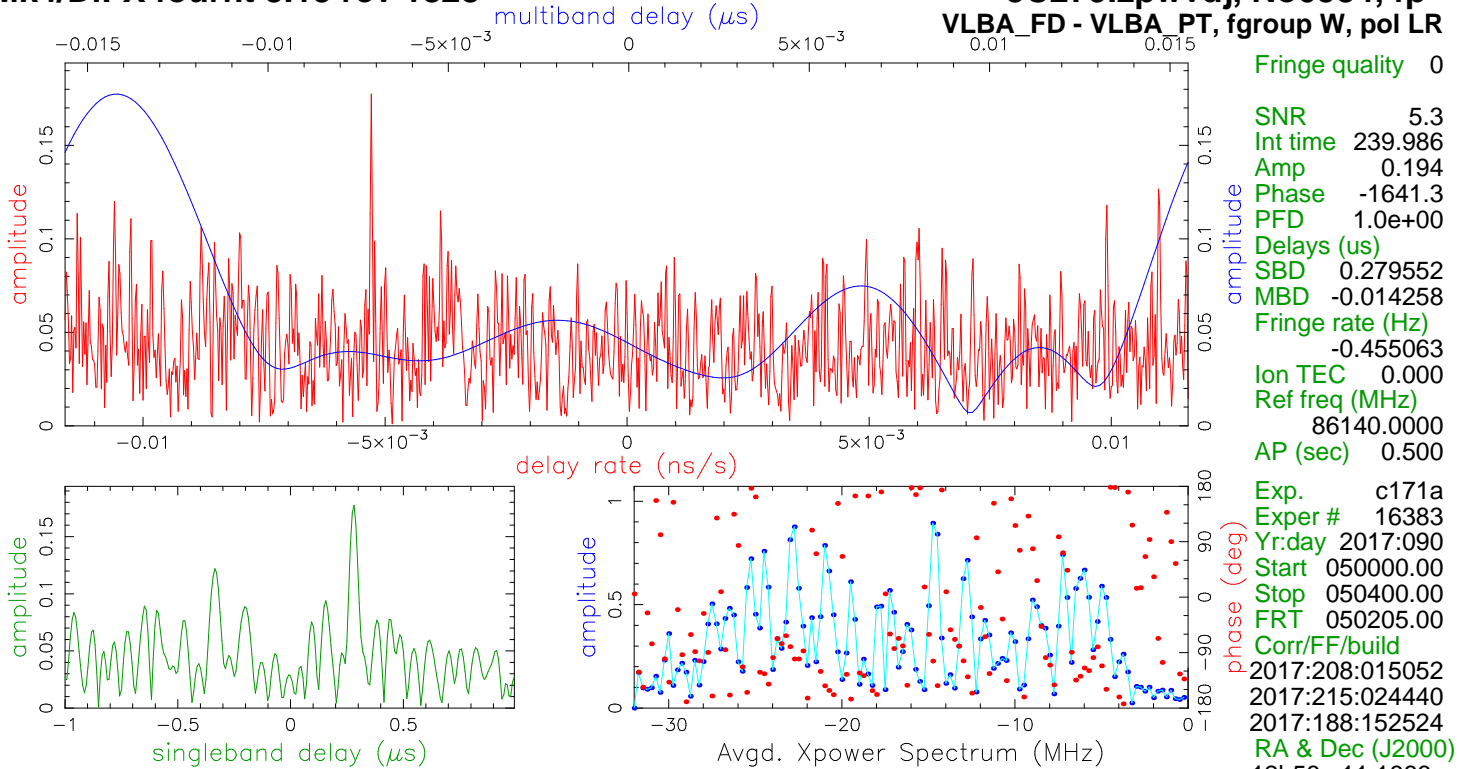


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	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)			Apriori accel (us/s/s)		-7.17358282177E-06		Resid phase (deg)		-200.8	+/- 7.3

RMS Theor. Amplitude 0.522 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 79.5 17.6 Search (1024X32) 0.514 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 113.4 30.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 11.6 10.4 Inc. seg. avg. 0.977 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 (%) 19.4 18.1 Inc. frq. avg. 0.519 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.46.zpwvdj



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

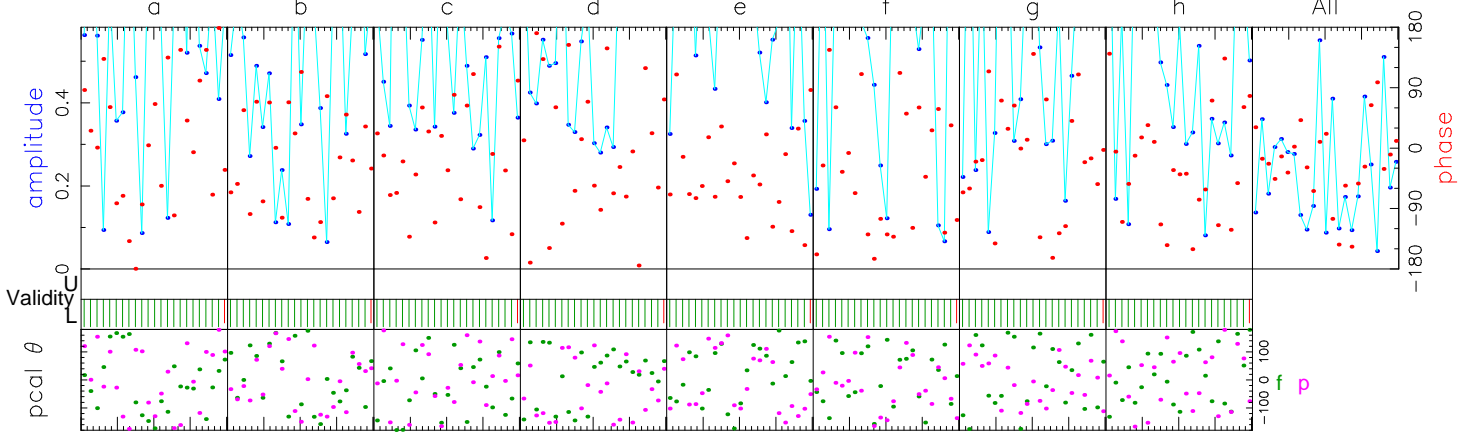
2017:188:152524

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

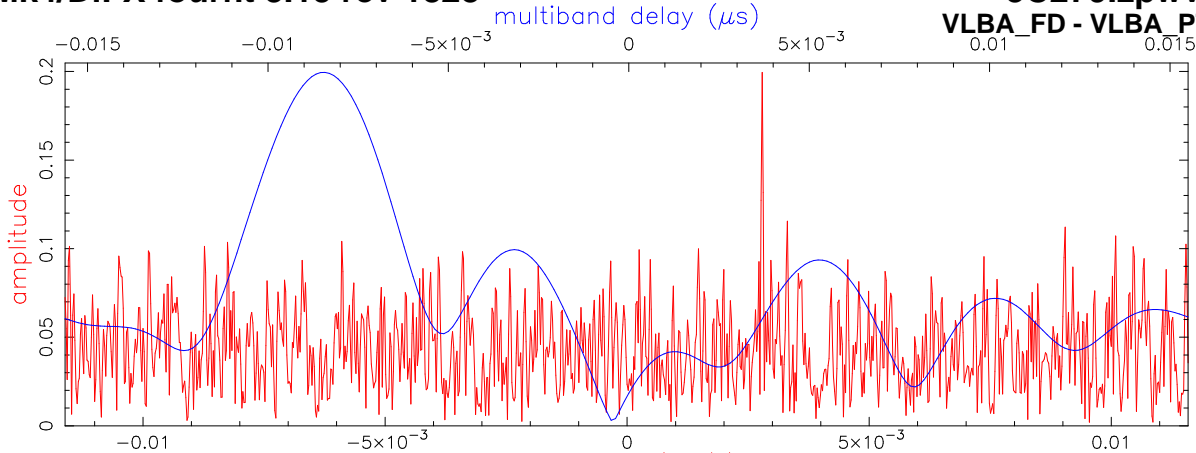
amp/seg (%) 83.8 90.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

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

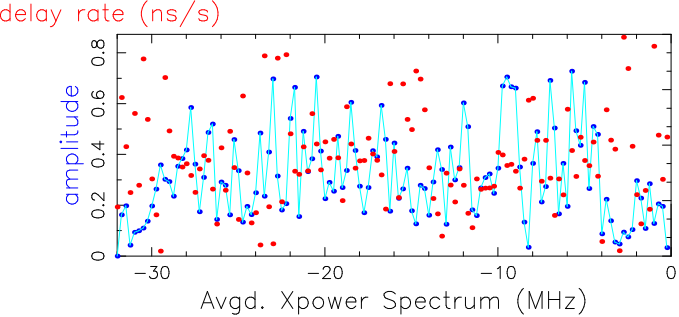
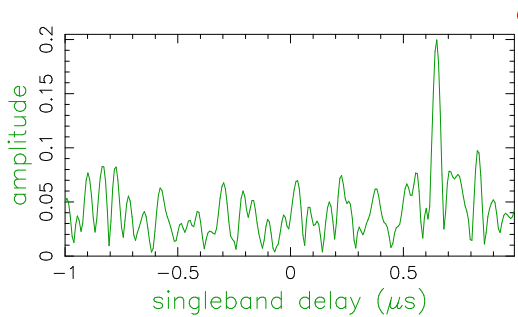
amp/frq (%) 49.3 53.1 Inc. frq. avg. 0.180 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012

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

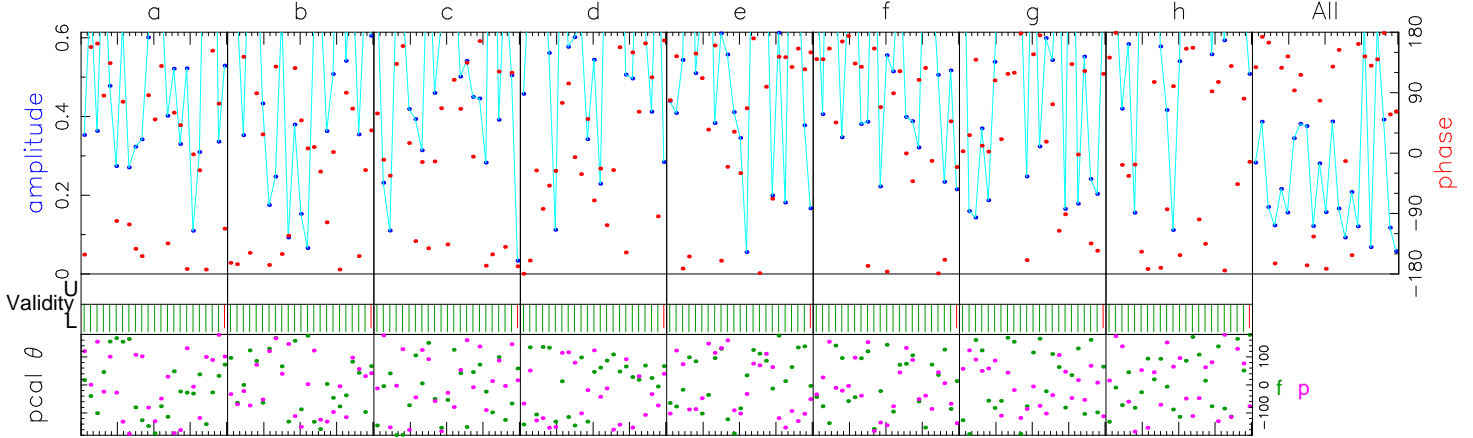


Fringe quality 0  
 SNR 6.0  
 Int time 239.986  
 Amp 0.205  
 Phase -3634.5  
 PFD 1.3e-01  
 Delays (us)  
 SBD 0.647110  
 MBD -0.008452  
 Fringe rate (Hz)  
 0.239935  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500



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



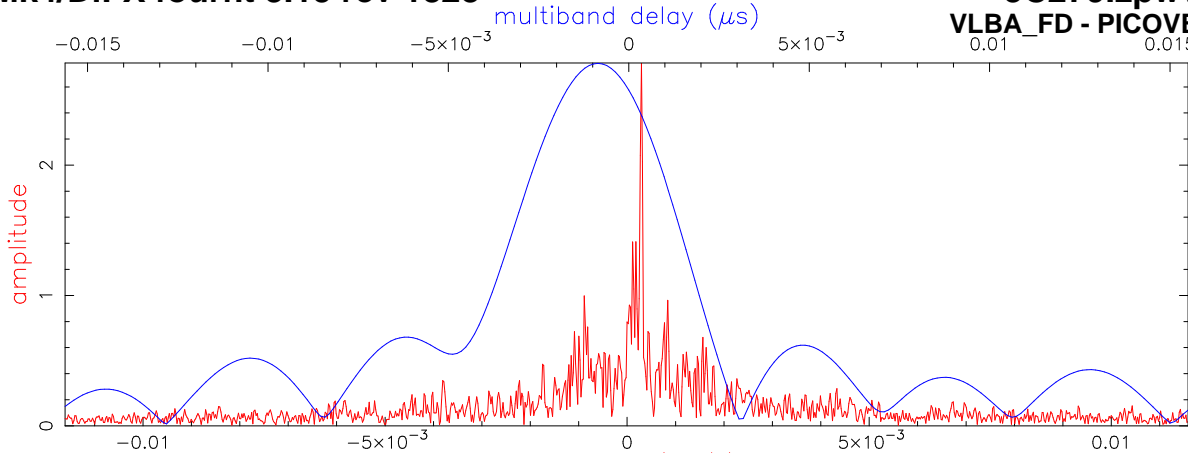
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
142.2	151.8	153.8	-98.5	143.8	132.5	111.9	169.3	Phase	145.5
0.3	0.1	0.2	0.3	0.3	0.2	0.3	0.3	Ampl.	0.2
30.8	134.9	164.2	24.7	211.2	211.5	149.1	211.7	Sbd box	211.8
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	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	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 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

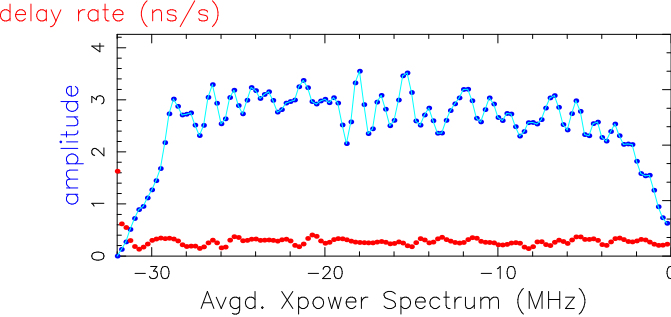
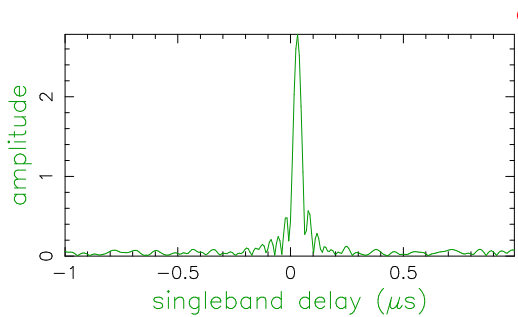
ph/seg (deg)	54.9	Theor.	45.9	Search (1024X32)	0.195	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	84.7		80.1	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
ph/frq (deg)	50.8		27.1	Inc. seg. avg.	0.199	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
amp/frq (%)	50.3		47.2	Inc. frq. avg.	0.203	Sample rate(MSamp/s): 64		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



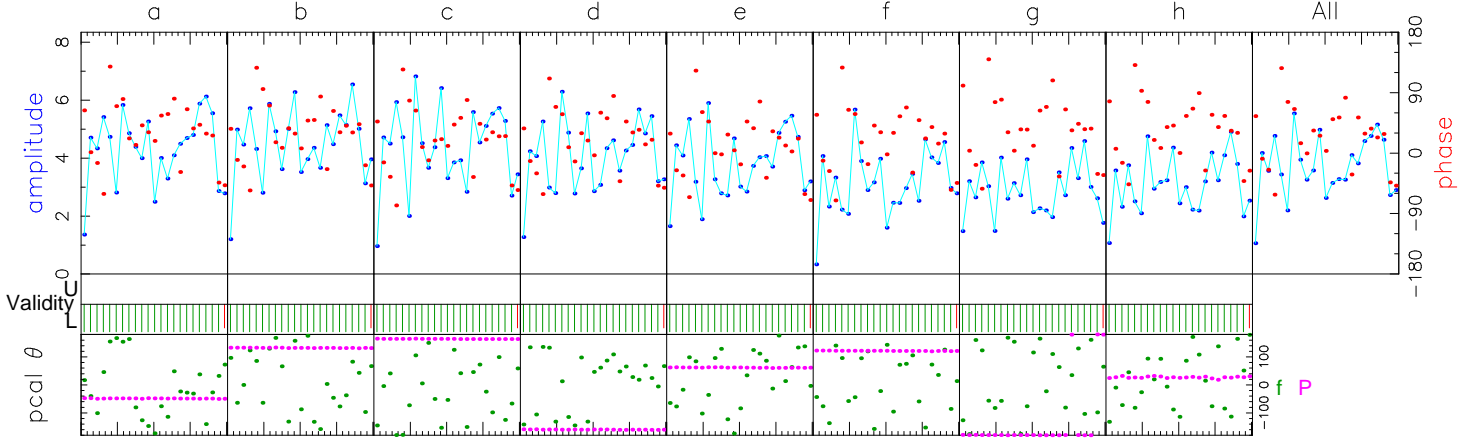


Fringe quality 5  
SNR 83.3  
Int time 239.674  
Amp 2.784  
Phase -157.4  
PFD 0.0e+00  
Delays (us)  
SBD 0.030497  
MBD -0.000857  
Fringe rate (Hz) 0.025208  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500

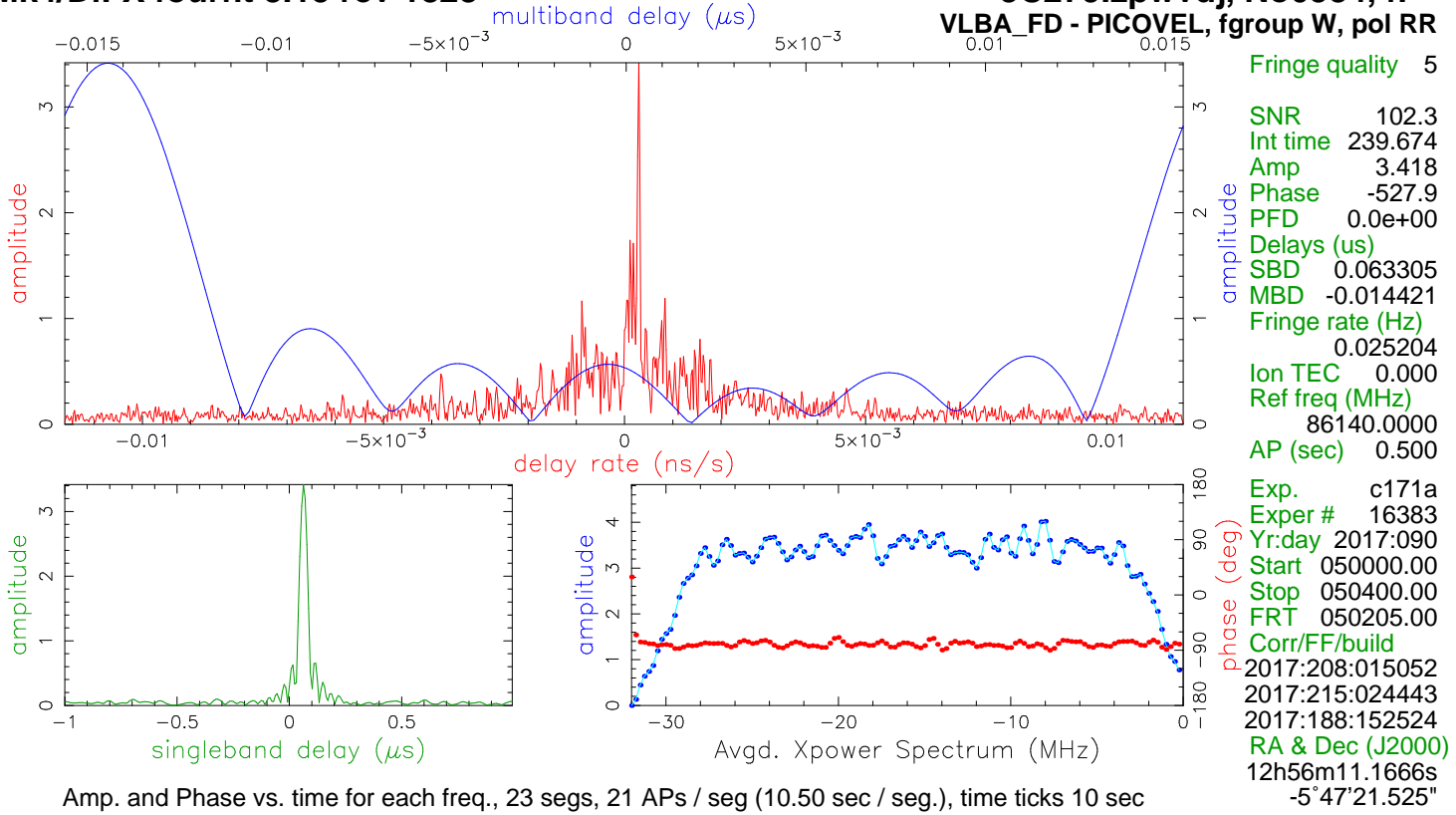


Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024442  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

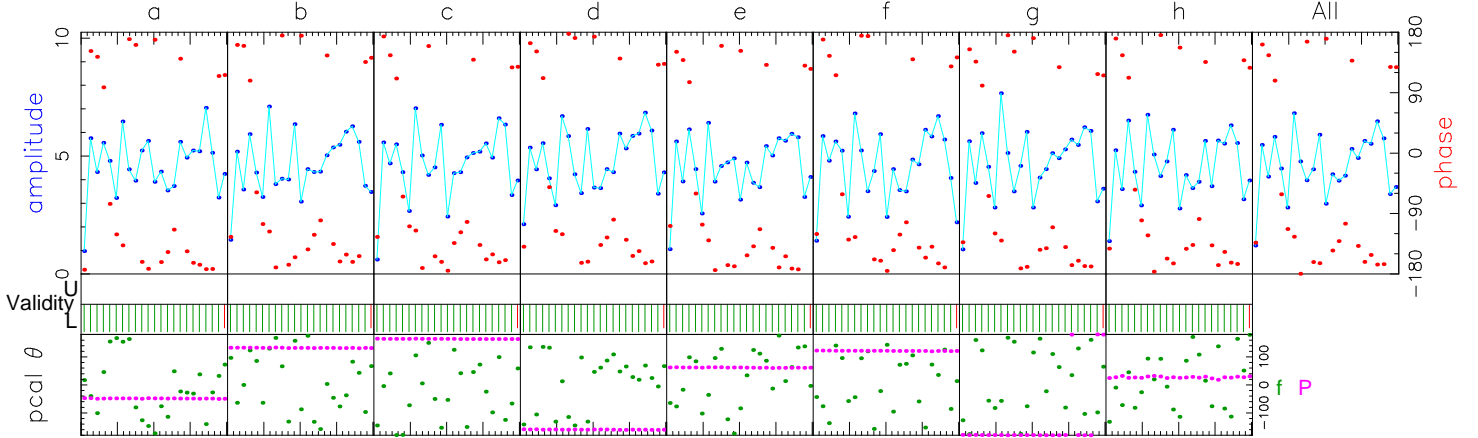
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



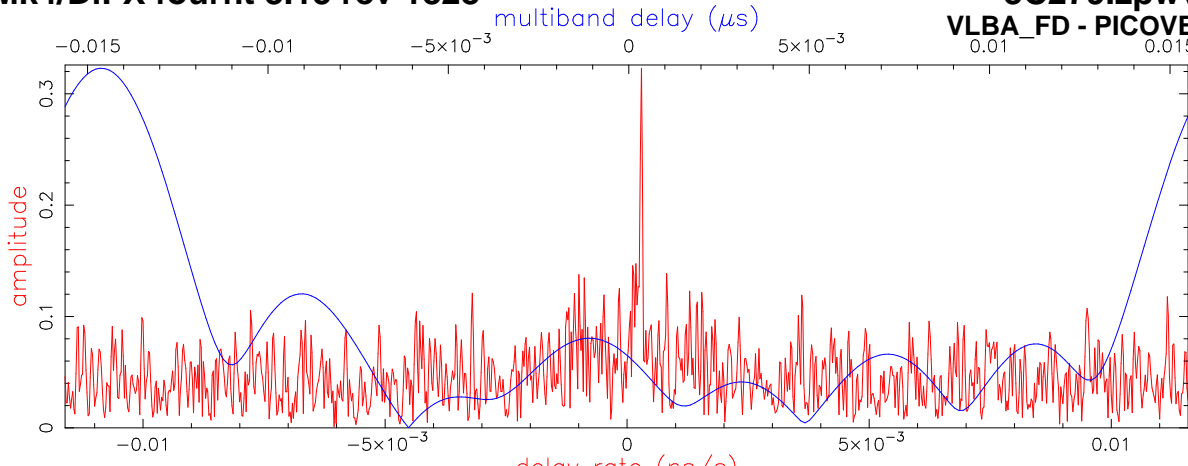
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
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	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)		8.61545593541E+03		Apriori delay (usec)	8.61542554251E+03		Resid mbdelay (usec)	-8.57104E-04	+/-	2.6E-05
Sband delay (usec)		8.61545603901E+03		Apriori clock (usec)	-1.1720484E+00		Resid sbdelay (usec)	3.04965E-02	+/-	2.1E-04
Phase delay (usec)		8.61542554324E+03		Apriori clockrate (us/s)	-9.4280757E-07		Resid phdelay (usec)	7.29961E-07	+/-	4.4E-08
Delay rate (us/s)		1.87423512244E+00		Apriori rate (us/s)	1.87423482980E+00		Resid rate (us/s)	2.92636E-07	+/-	3.2E-10
Total phase (deg)			-73.8	Apriori accel (us/s/s)	-4.47383623235E-05		Resid phase (deg)	-157.4	+/-	1.4
RMS		Theor.	Amplitude	2.784 +/- 0.033		PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
ph/seg (deg)	44.9	3.3	Search (1024X32)	2.755		PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
amp/seg (%)	50.2	5.8	Interp.	0.000		Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	9.5	1.9	Inc. seg. avg.	3.719		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012
amp/frq (%)	16.0	3.4	Inc. frq. avg.	2.808		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 250.4 el 15.1 pa 49.1		u,v (fr/asec)	-10822.211 -465.080					simultaneous interpolator



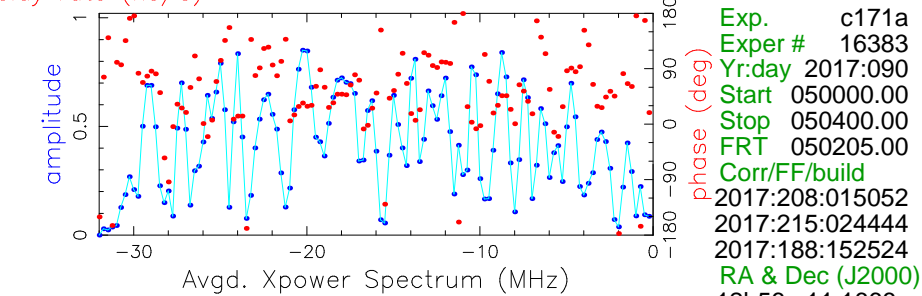
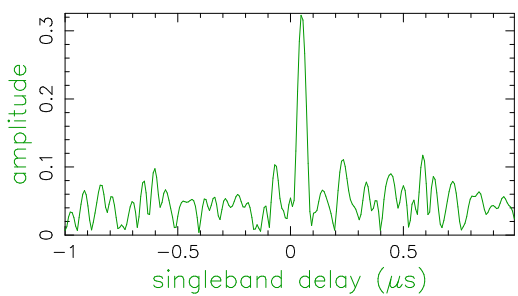
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
	-176.7	-161.0	-162.4	-165.1	-174.5	-164.6	-171.9	-167.4	Phase	-167.9	
	3.5	3.4	3.4	3.6	3.3	3.5	3.4	3.3	Ampl.	3.4	
	136.9	137.3	137.0	137.0	137.1	137.0	137.1	137.3	Sbd box	137.1	
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	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)	8.61547362166E+03		Apriori delay (usec)		8.61542554251E+03		Resid mbdelay (usec)		-1.44209E-02	+/- 2.1E-05	
Sband delay (usec)	8.61548884751E+03		Apriori clock (usec)		-1.1720484E+00		Resid sbdelay (usec)		6.33050E-02	+/- 1.7E-04	
Phase delay (usec)	8.61542553710E+03		Apriori clockrate (us/s)		-9.4280757E-07		Resid phdelay (usec)		-5.41478E-06	+/- 3.6E-08	
Delay rate (us/s)	1.87423512240E+00		Apriori rate (us/s)		1.87423482980E+00		Resid rate (us/s)		2.92599E-07	+/- 2.6E-10	
Total phase (deg)			Apriori accel (us/s/s)		-4.47383623235E-05		Resid phase (deg)		-527.9	+/- 1.1	
RMS	45.2	2.7	Amplitude	3.418 +/- 0.033		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	51.0	4.7	Search (1024X32)	3.369		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000	
amp/seg (%)	6.2	1.6	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	2.3	2.8	Inc. seg. avg.	4.603		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012	
amp/frq (%)			Inc. frq. avg.	3.429		Data rate(Mb/s): 1024		ion window (TEC)	0.00	0.00	
f: az 132.0 el 40.8 pa -39.8	P: az 250.4 el 15.1 pa 49.1		u,v (fr/asec)		-10822.211 -465.080		nlags: 128 t_cohere infinite		simultaneous interpolator		

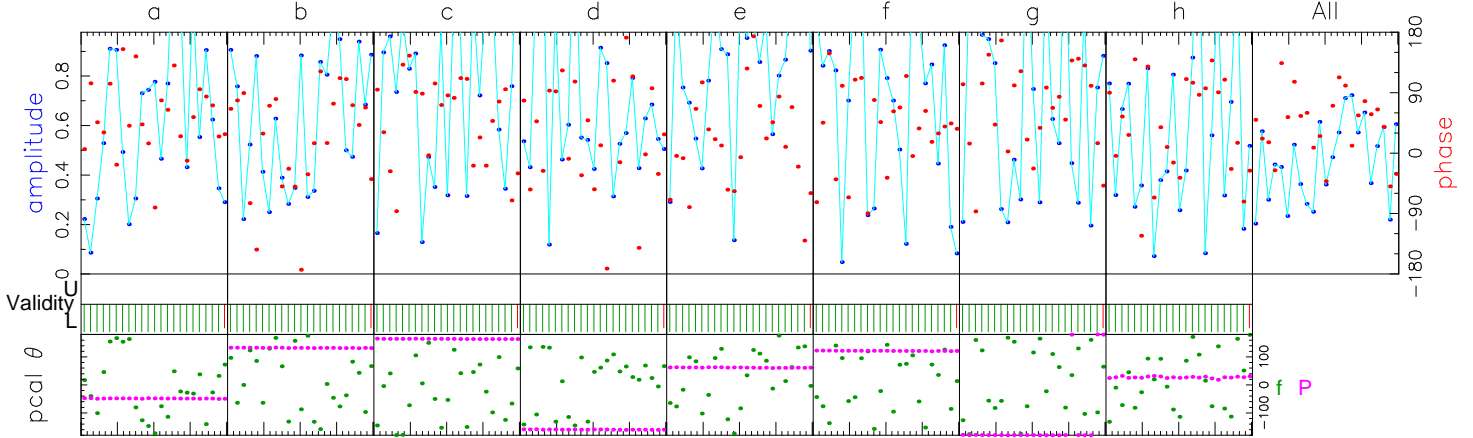


Fringe quality 9  
 SNR 9.8  
 Int time 239.674  
 Amp 0.326  
 Phase -311.8  
 PFD 1.9e-14  
 Delays (us)  
 SBD 0.049581  
 MBD -0.014585  
 Fringe rate (Hz) 0.025573  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.500



Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024444  
 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
	57.8	63.3	45.1	47.5	13.8	38.4	62.6	60.7	Phase	48.2
	0.4	0.3	0.3	0.3	0.4	0.4	0.3	0.3	Ampl.	0.3
	136.2	135.9	135.1	198.1	135.5	135.5	134.7	135.8	Sbd box	135.3
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	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)	8.61547345785E+03		Apriori delay (usec)		8.61542554251E+03		Resid mbdelay (usec)		-1.45847E-02	+/- 2.2E-04
Sband delay (usec)	8.61547512351E+03		Apriori clock (usec)		-1.1720484E+00		Resid sbdelay (usec)		4.95810E-02	+/- 1.8E-03
Phase delay (usec)	8.61542554407E+03		Apriori clockrate (us/s)		-9.4280757E-07		Resid phdelay (usec)		1.55376E-06	+/- 3.8E-07
Delay rate (us/s)	1.87423512668E+00		Apriori rate (us/s)		1.87423482980E+00		Resid rate (us/s)		2.96876E-07	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		-4.47383623235E-05		Resid phase (deg)		-311.8	+/- 11.8

ph/seg (deg) 48.3 28.2  
 amp/seg (%) 63.8 49.2  
 ph/frq (deg) 18.1 16.6  
 amp/frq (%) 13.4 29.0

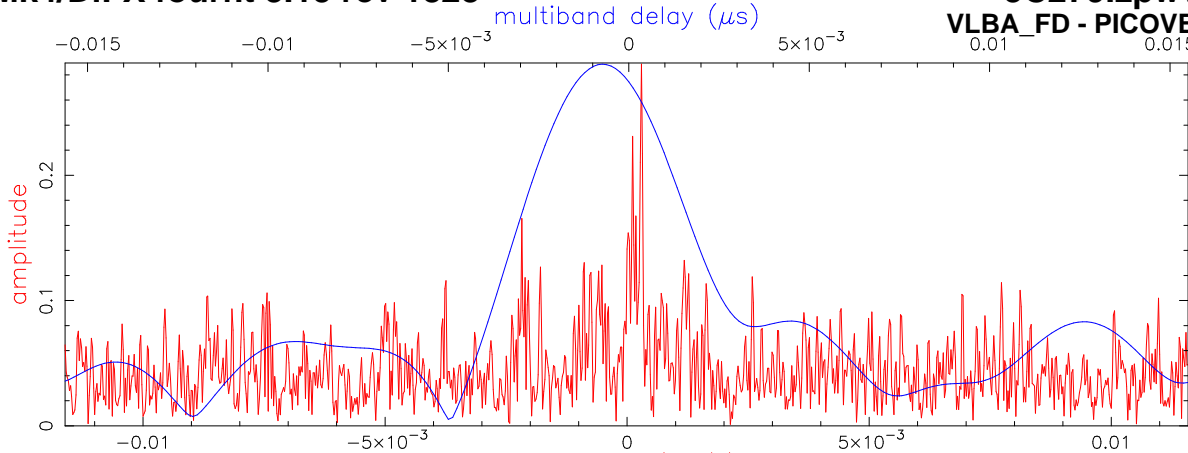
RMS Theor. Amplitude 0.326 +/- 0.033  
 Search (1024X32) 0.321  
 Interp. 0.000  
 Inc. seg. avg. 0.410  
 Inc. frq. avg. 0.322

PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 PCal rate: 0.000E+00, 0.000E+00 (us/s)  
 Bits/sample: 2x2 SampCntNorm: enabled  
 Sample rate(MSamp/s): 64  
 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite

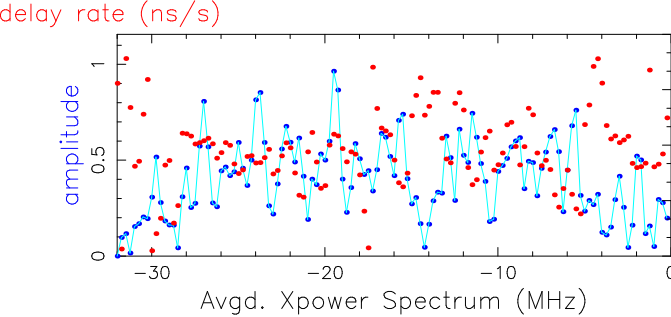
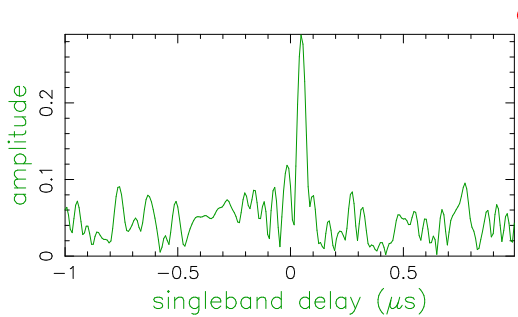
sb window (us) -1.000 1.000  
 mb window (us) -0.016 0.016  
 dr window (ns/s) -0.012 0.012  
 ion window (TEC) 0.00 0.00

f: az 132.0 el 40.8 pa -39.8 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -10822.211 -465.080 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fP..zpvdj Output file: /Exps/c171a/gmva/1234/No0584/fP.W.51.zpvdj

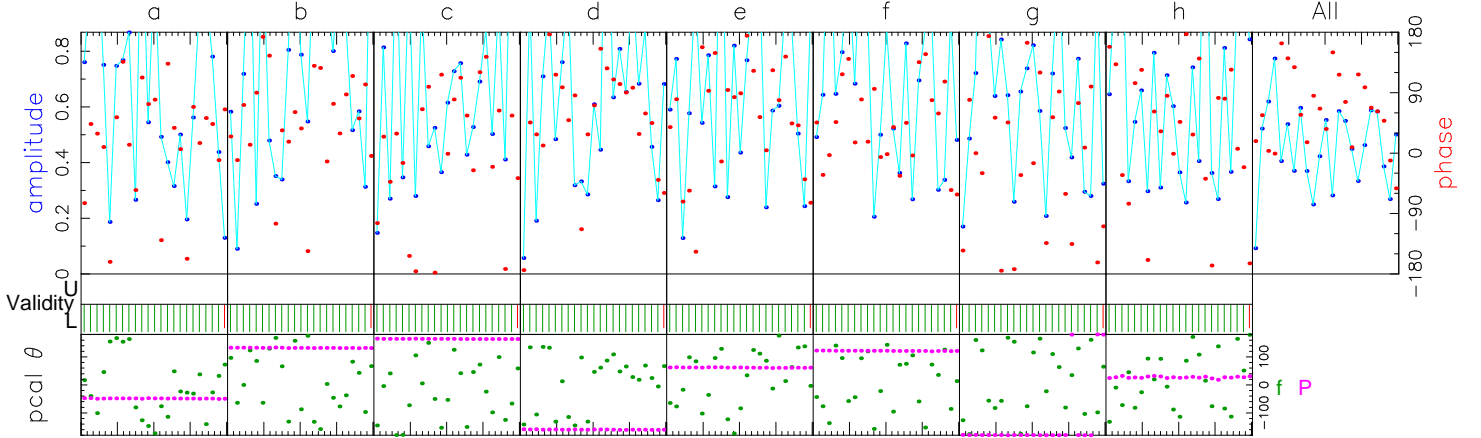


Fringe quality 9  
 SNR 8.7  
 Int time 239.674  
 Amp 0.290  
 Phase -298.9  
 PFD 4.1e-10  
 Delays (us)  
 SBD 0.048476  
 MBD -0.000721  
 Fringe rate (Hz) 0.025598  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.500



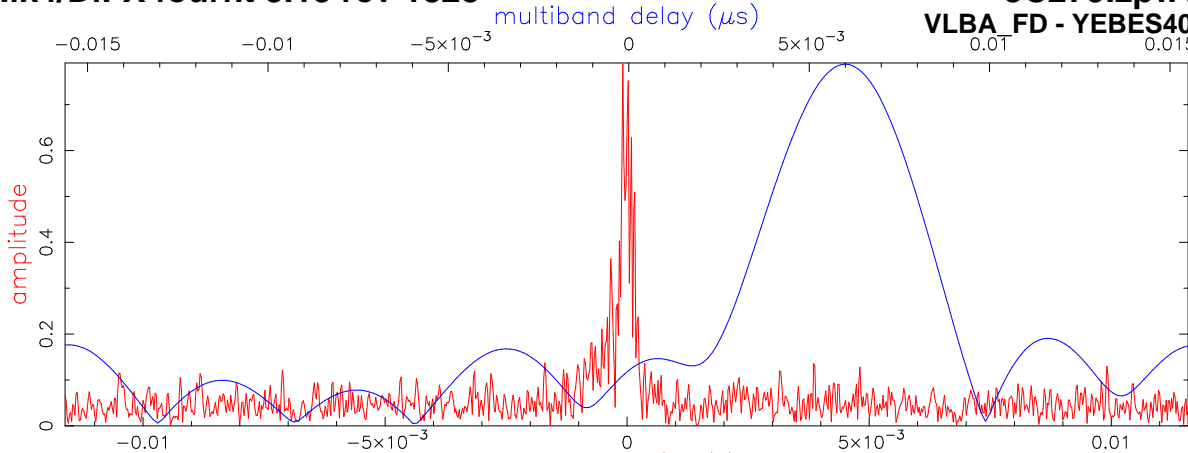
Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024445  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

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

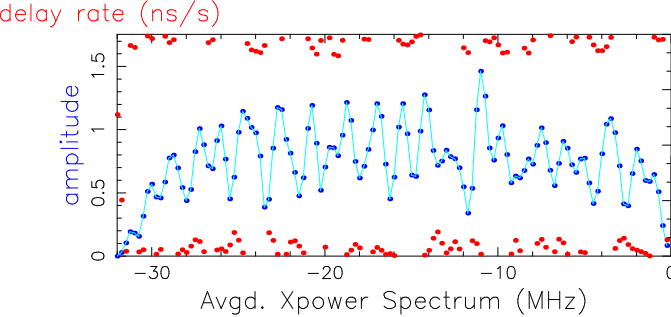
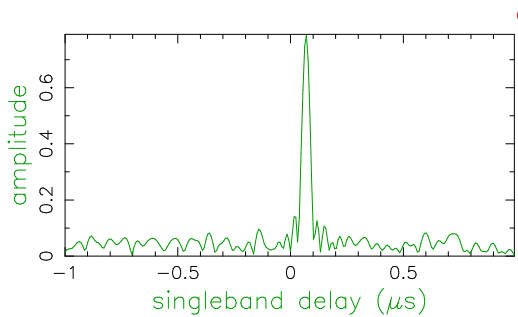


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480			
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000			
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000			
f:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
f:P	0:0	0:0	0:0	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	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR			
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL			
Group delay (usec)(sbd)		8.61548732147E+03		Apriori delay (usec)	8.61542554251E+03		Resid mbdelay (usec)	-7.21041E-04		+/- 2.5E-04	
Sband delay (usec)		8.61547401851E+03		Apriori clock (usec)	-1.1720484E+00		Resid sbdelay (usec)	4.84760E-02		+/- 2.0E-03	
Phase delay (usec)		8.61542554448E+03		Apriori clockrate (us/s)	-9.4280757E-07		Resid phdelay (usec)	1.96932E-06		+/- 4.3E-07	
Delay rate (us/s)		1.87423512697E+00		Apriori rate (us/s)	1.87423482980E+00		Resid rate (us/s)	2.97170E-07		+/- 3.1E-09	
Total phase (deg)		-215.3		Apriori accel (us/s/s)	-4.47383623235E-05		Resid phase (deg)	-298.9		+/- 13.2	
ph/seg (deg)	54.8	31.7		Search (1024X32)	0.285		Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	77.3	55.3		Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	15.9	18.7		Inc. seg. avg.	0.396		Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016	0.016
amp/frq (%)	37.2	32.6		Inc. frq. avg.	0.283		Sample rate(MSamp/s): 64	ion window (TEC)	-0.012	0.012	
							Data rate(Mb/s): 1024	nlags: 128	t_cohere infinite	0.00	0.00

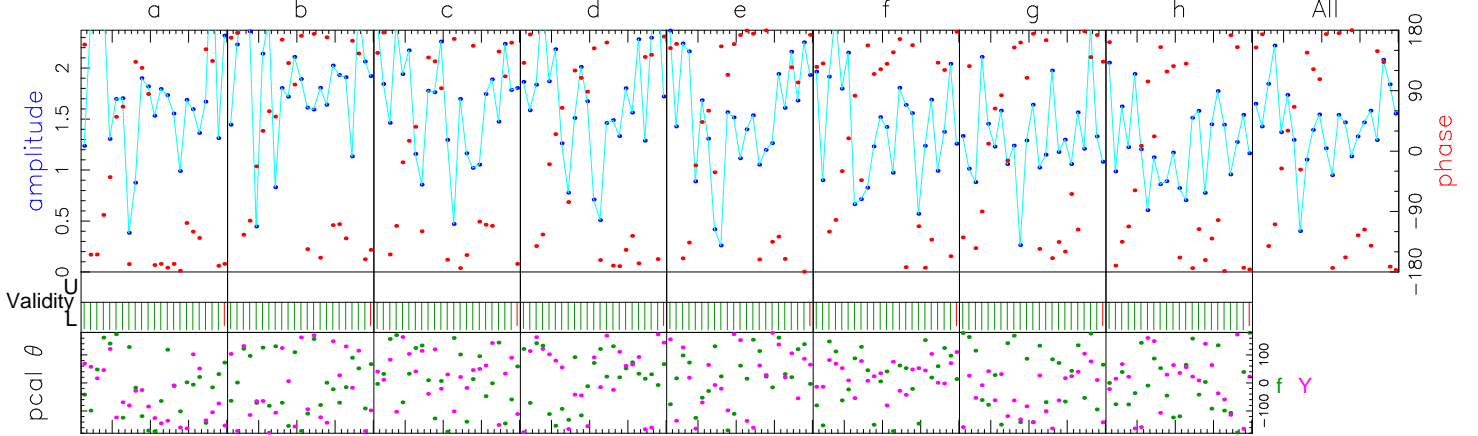
f: az 132.0 el 40.8 pa -39.8 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -10822.211 -465.080 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fP.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/fP.W.52.zpwwdj



Fringe quality 9  
SNR 23.1  
Int time 228.084  
Amp 0.791  
Phase -180.7  
PFD 0.0e+00  
Delays (us)  
SBD 0.068750  
MBD 0.005978  
Fringe rate (Hz)  
-0.008371  
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  
2017:215:024638  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

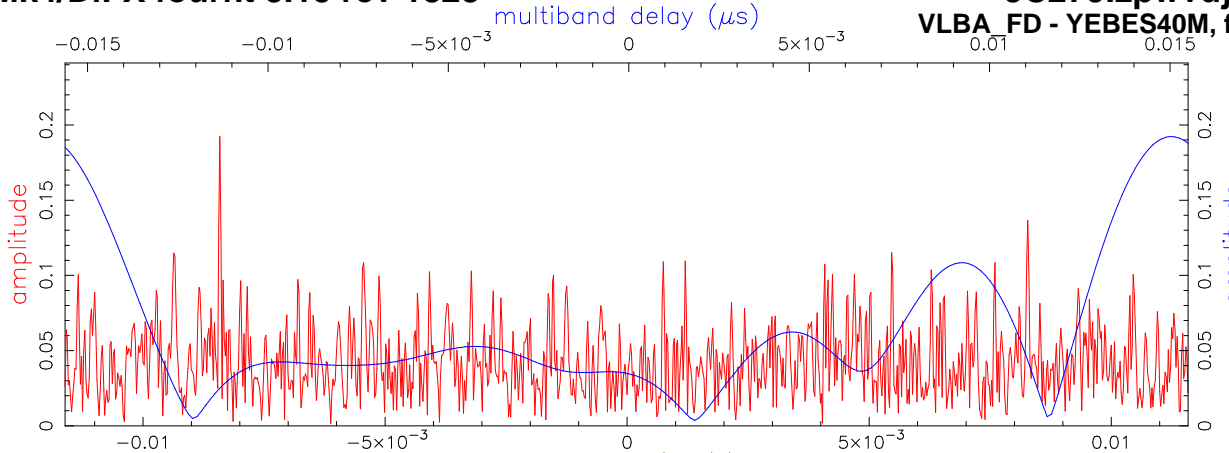


Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec

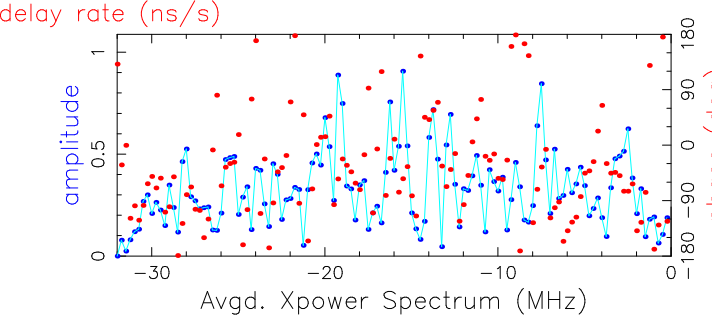
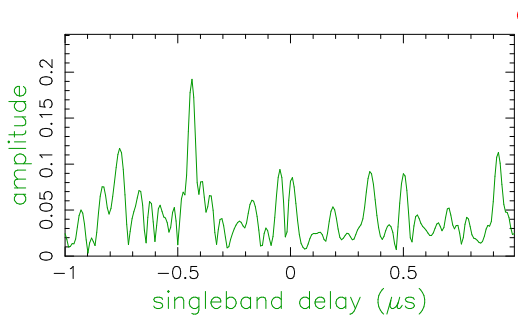


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-176.9	-174.0	175.6	172.4	170.4	170.4	-177.9	-164.0	Phase	179.3
	1.0	1.0	0.7	0.9	1.0	0.6	0.6	0.7	Ampl.	0.8
	137.9	138.0	137.8	137.7	137.7	138.0	137.8	137.5	Sbd box	137.8
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	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)	9.11181076160E+03		Apriori delay (usec)		9.11174228391E+03		Resid mbdelay (usec)		5.97768E-03	+/- 9.4E-05
Sband delay (usec)	9.11181103391E+03		Apriori clock (usec)		-4.5196648E+00		Resid sbdelay (usec)		6.87500E-02	+/- 7.5E-04
Phase delay (usec)	9.11174228969E+03		Apriori clockrate (us/s)		-8.8280761E-07		Resid phdelay (usec)		5.78246E-06	+/- 1.6E-07
Delay rate (us/s)	1.82294109909E+00		Apriori rate (us/s)		1.82294119626E+00		Resid rate (us/s)		-9.71761E-08	+/- 1.2E-09
Total phase (deg)			Apriori accel (us/s/s)		-4.68524069153E-05		Resid phase (deg)		-180.7	+/- 5.0
	RMS	Theor.	Amplitude	0.791 +/- 0.034	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	70.1	11.9	Search (1024X32)	0.762	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000
amp/seg (%)	96.1	20.8	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		-0.016	0.016
ph/frq (deg)	9.7	7.0	Inc. seg. avg.	1.423	Sample rate(MSamp/s): 64		dr window (ns/s)		-0.012	0.012
amp/frq (%)	18.6	12.2	Inc. frq. avg.	0.790	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	Y: az 249.7 el 13.7 pa 45.9		u,v (fr/asec) -10528.594 -860.864						simultaneous interpolator	

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fY..zpvdj Output file: /Exps/c171a/gmva/1234/No0584/fY.W.157.zpvdj

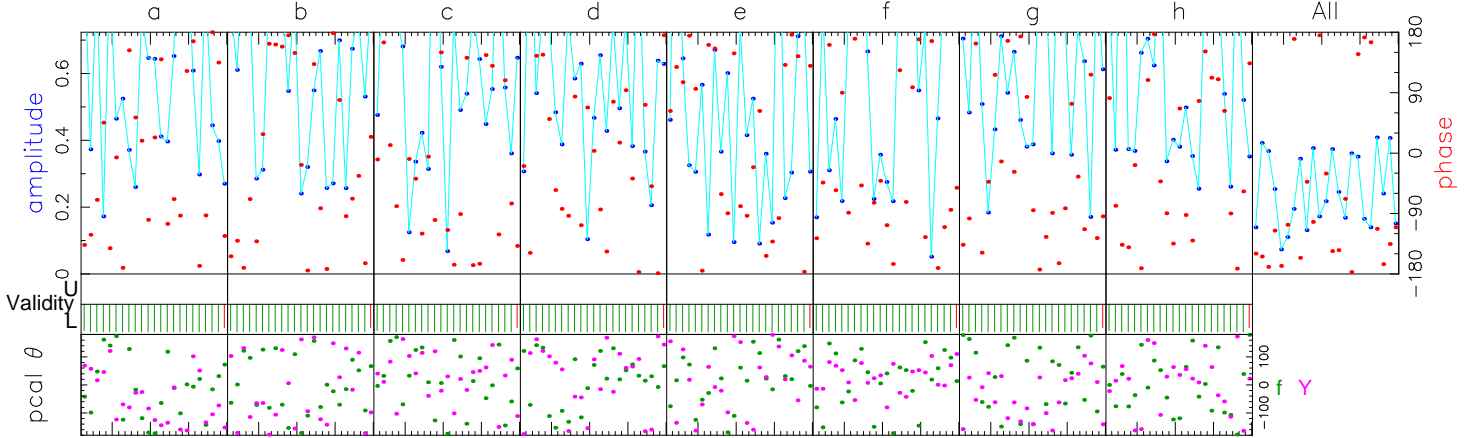


Fringe quality 0  
 SNR 5.6  
 Int time 228.084  
 Amp 0.241  
 Phase 2193.9  
 PFD 6.9e-01  
 Delays (us)  
 SBD -0.438062  
 MBD -0.016216  
 Fringe rate (Hz)  
 -0.724544  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500



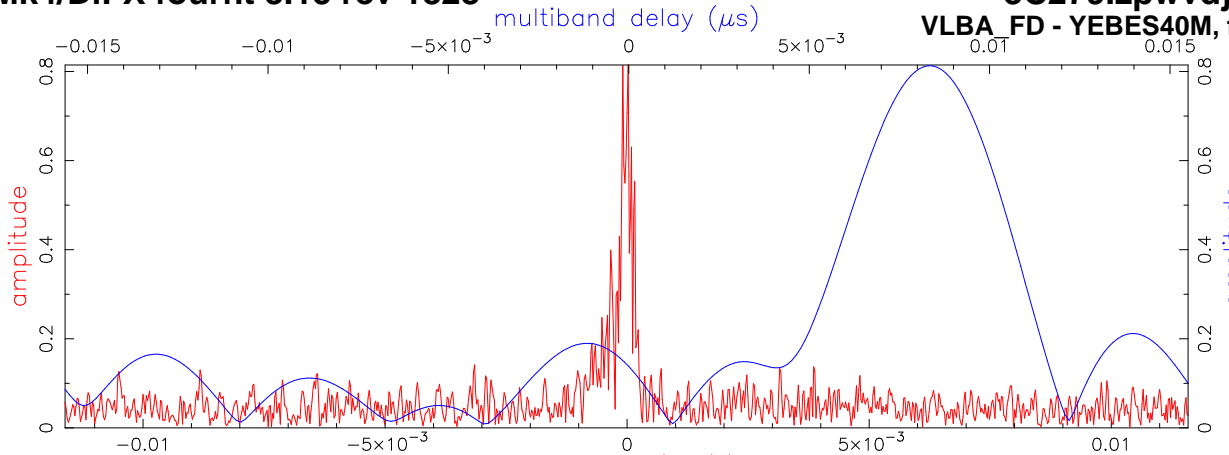
Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050011.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024639  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

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

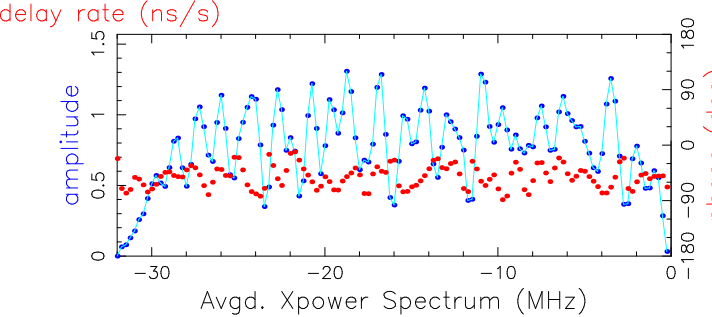
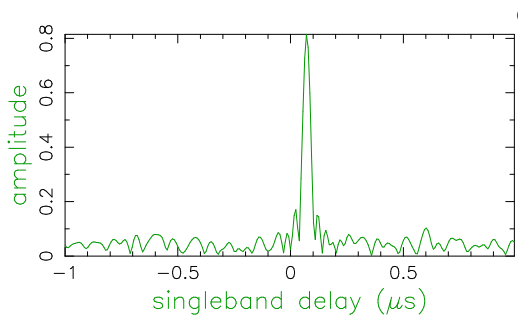


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All		
	-126.3	-166.2	-142.8	-176.5	-178.0	-105.6	-130.1	179.1	Phase	-146.1		
	0.3	0.3	0.3	0.1	0.2	0.3	0.4	0.2	Ampl.	0.2		
	166.9	71.6	253.7	50.6	11.6	33.8	72.0	78.8	Sbd box	72.9		
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used			
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs			
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs			
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase			
f:Y	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			
Y	1000	1000	1000	1000	1000	1000	1000	1000				
f	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)	9.11131981804E+03		Apriori delay (usec)		9.11174228391E+03		Resid mbdelay (usec)		-1.62159E-02	+/- 3.9E-04		
Sband delay (usec)	9.11130422191E+03		Apriori clock (usec)		-4.5196648E+00		Resid sbdelay (usec)		-4.38062E-01	+/- 3.1E-03		
Phase delay (usec)	9.11174227920E+03		Apriori clockrate (us/s)		-8.8280761E-07		Resid phdelay (usec)		-4.71286E-06	+/- 6.6E-07		
Delay rate (us/s)	1.82293278502E+00		Apriori rate (us/s)		1.82294119626E+00		Resid rate (us/s)		-8.41124E-06	+/- 5.0E-09		
Total phase (deg)	2314.9		Apriori accel (us/s/s)		-4.68524069153E-05		Resid phase (deg)		2193.9	+/- 20.4		
	RMS	Theor.	Amplitude	0.241 +/- 0.043		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
ph/seg (deg)	47.5	48.9	Search (1024X32)	0.186		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000		
amp/seg (%)	64.3	85.4	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016	0.016	
ph/frq (deg)	31.2	28.8	Inc. seg. avg.	0.232		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012		
amp/frq (%)	32.9	50.3	Inc. frq. avg.	0.238		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 Y: az 249.7 el 13.7 pa 45.9 u,v (fr/asec) -10528.594 -860.864 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fY..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/fY.W.158.zpwwdj

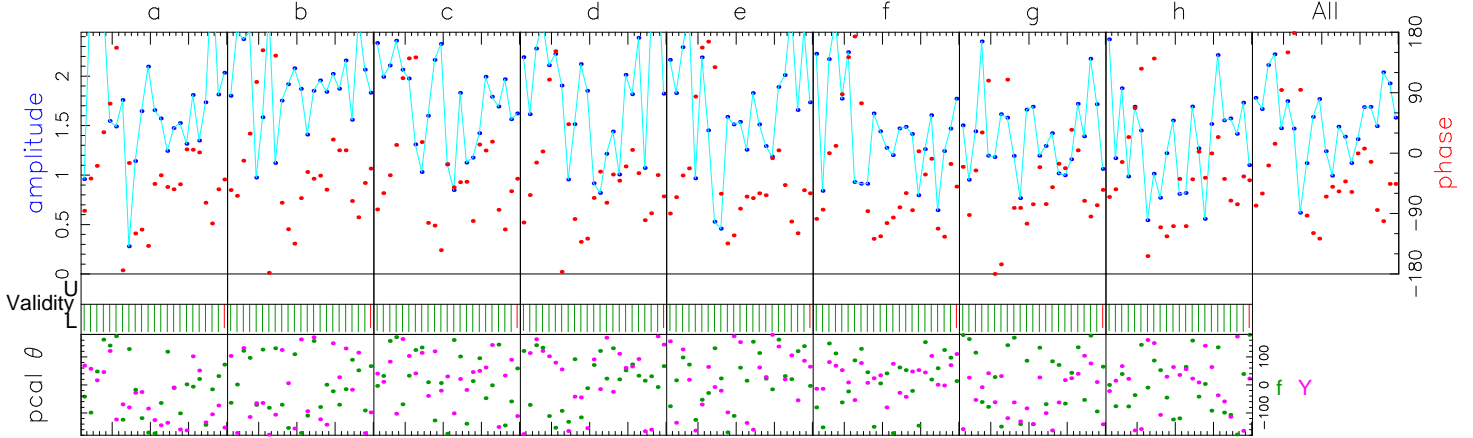


Fringe quality 9  
 SNR 23.8  
 Int time 228.084  
 Amp 0.815  
 Phase -415.1  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.071474  
 MBD 0.008354  
 Fringe rate (Hz)  
 -0.008400  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500

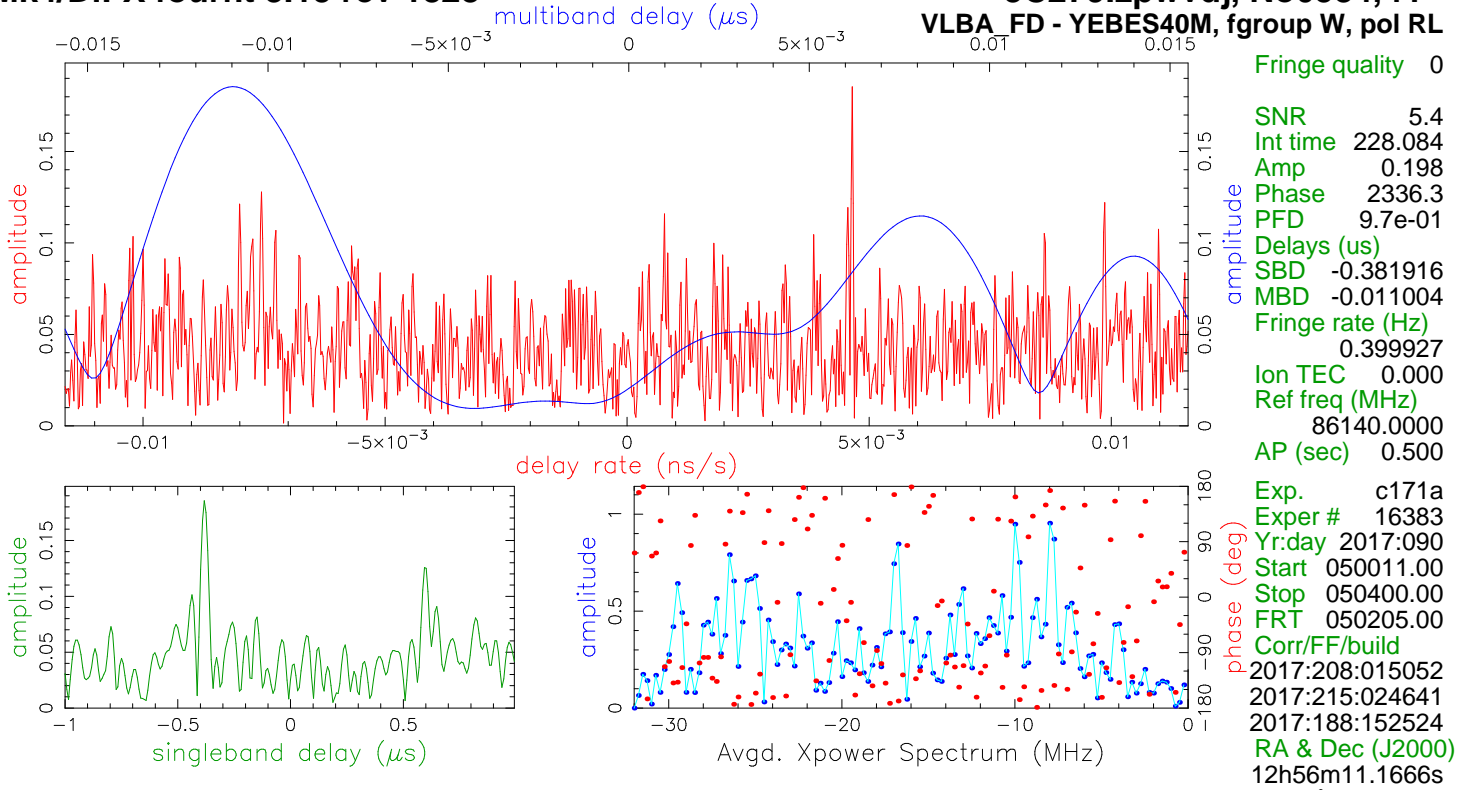


Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050011.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024640  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

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
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	Ampl.	0.8
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	138.1
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f	1000	1000	1000	1000	1000	1000	1000	1000	ManI PC	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	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)	9.11181313753E+03		Apriori delay (usec)		9.11174228391E+03		Resid mbdelay (usec)		8.35362E-03	+/- 9.1E-05
Sband delay (usec)	9.11181375791E+03		Apriori clock (usec)		-4.5196648E+00		Resid sbdelay (usec)		7.14740E-02	+/- 7.2E-04
Phase delay (usec)	9.11174228214E+03		Apriori clockrate (us/s)		-8.8280761E-07		Resid phdelay (usec)		-1.77530E-06	+/- 1.6E-07
Delay rate (us/s)	1.82294109875E+00		Apriori rate (us/s)		1.82294119626E+00		Resid rate (us/s)		-9.75128E-08	+/- 1.2E-09
Total phase (deg)			Apriori accel (us/s/s)		-4.68524069153E-05		Resid phase (deg)		-415.1	+/- 4.8
	RMS	Theor.	Amplitude	0.815 +/- 0.034	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	70.6	11.5	Search (1024X32)	0.768	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000
amp/seg (%)	100.4	20.2	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		-0.016	0.016
ph/frq (deg)	10.4	6.8	Inc. seg. avg.	1.516	Sample rate(MSamp/s): 64		dr window (ns/s)		-0.012	0.012
amp/frq (%)	17.8	11.9	Inc. frq. avg.	0.818	Data rate(Mb/s): 1024		ion window (TEC)		0.00	0.00
					nlags: 128 t_cohere infinite					
f: az 132.0 el 40.8 pa -39.8	Y: az 249.7 el 13.7 pa 45.9		u,v (fr/asec) -10528.594 -860.864						simultaneous interpolator	

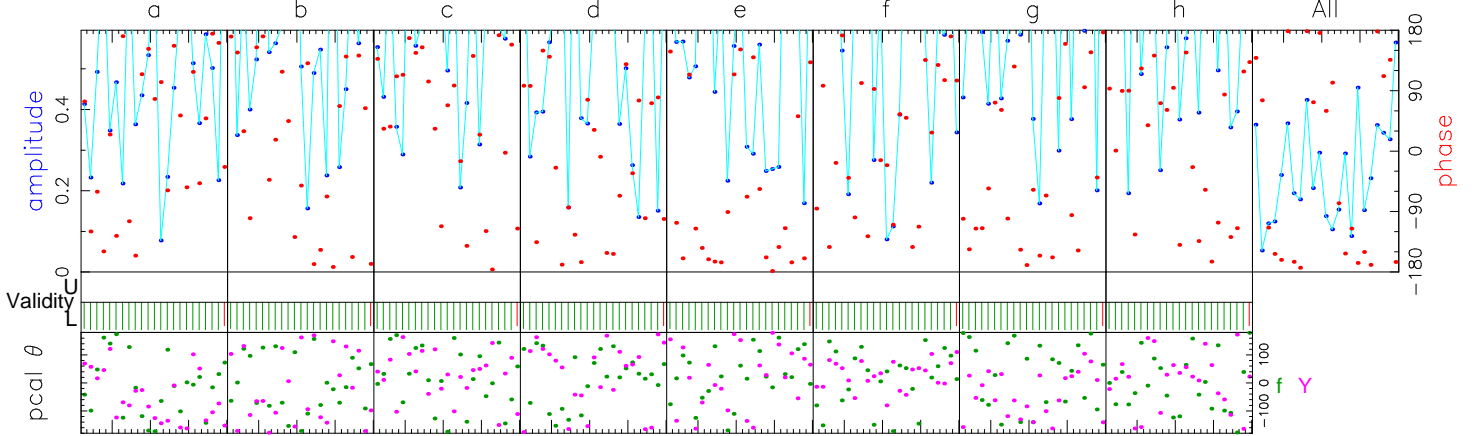


Fringe quality 0

SNR 5.4  
Int time 228.084  
Amp 0.198  
Phase 2336.3  
PFD 9.7e-01  
Delays (us)  
SBD -0.381916  
MBD -0.011004  
Fringe rate (Hz)  
0.399927  
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  
2017:215:024641  
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
	-169.1	176.0	143.2	-169.9	-165.3	-177.4	-160.6	113.5	Phase	176.3
	0.0	0.3	0.1	0.1	0.4	0.1	0.4	0.2	Ampl.	0.2
	71.1	206.2	85.8	26.9	81.1	22.8	138.4	124.6	Sbd box	80.1
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Tracks	
Group delay (usec)(sbd)	9.11135628026E+03		Apriori delay (usec)		9.11174228391E+03		Resid mbdelay (usec)		-1.10036E-02	+/- 4.0E-04
Sband delay (usec)	9.11136036741E+03		Apriori clock (usec)		-4.5196648E+00		Resid sbdelay (usec)		-3.81916E-01	+/- 3.2E-03
Phase delay (usec)	9.11174228960E+03		Apriori clockrate (us/s)		-8.8280761E-07		Resid phdelay (usec)		5.68482E-06	+/- 6.8E-07
Delay rate (us/s)	1.82294583902E+00		Apriori rate (us/s)		1.82294119626E+00		Resid rate (us/s)		4.64276E-06	+/- 5.2E-09
Total phase (deg)	2457.3		Apriori accel (us/s/s)		-4.68524069153E-05		Resid phase (deg)		2336.3	+/- 21.1
	RMS	Theor.	Amplitude	0.198 +/- 0.037	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	56.5	50.7	Search (1024X32)	0.178	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000
amp/seg (%)	76.8	88.5	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		-0.016	0.016
ph/frq (deg)	32.5	29.9	Inc. seg. avg.	0.191	Sample rate(MSamp/s): 64		dr window (ns/s)		-0.012	0.012
amp/frq (%)	65.7	52.2	Inc. frq. avg.	0.197	Data rate(Mb/s): 1024		ion window (TEC)		0.00	0.00
					nlags: 128 t_cohere infinite					

f: az 132.0 el 40.8 pa -39.8 Y: az 249.7 el 13.7 pa 45.9 u,v (fr/asec) -10528.594 -860.864 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fY..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/fY.W.160.zpwwdj