

Fringe quality 7

SNR 39.8

Int time 239.988

Amp 1.330

Phase 274.4

PFD 0.0e+00

Delays (us)

SBD -0.045982

MBD -0.014625

Fringe rate (Hz) -0.008983

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

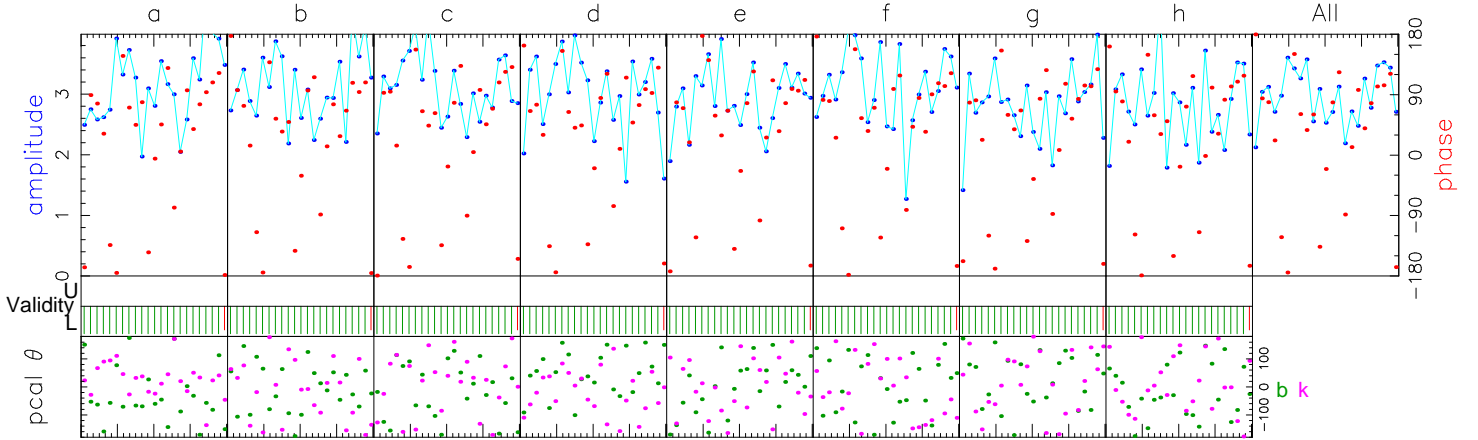
2017:208:015052

2017:215:024354

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

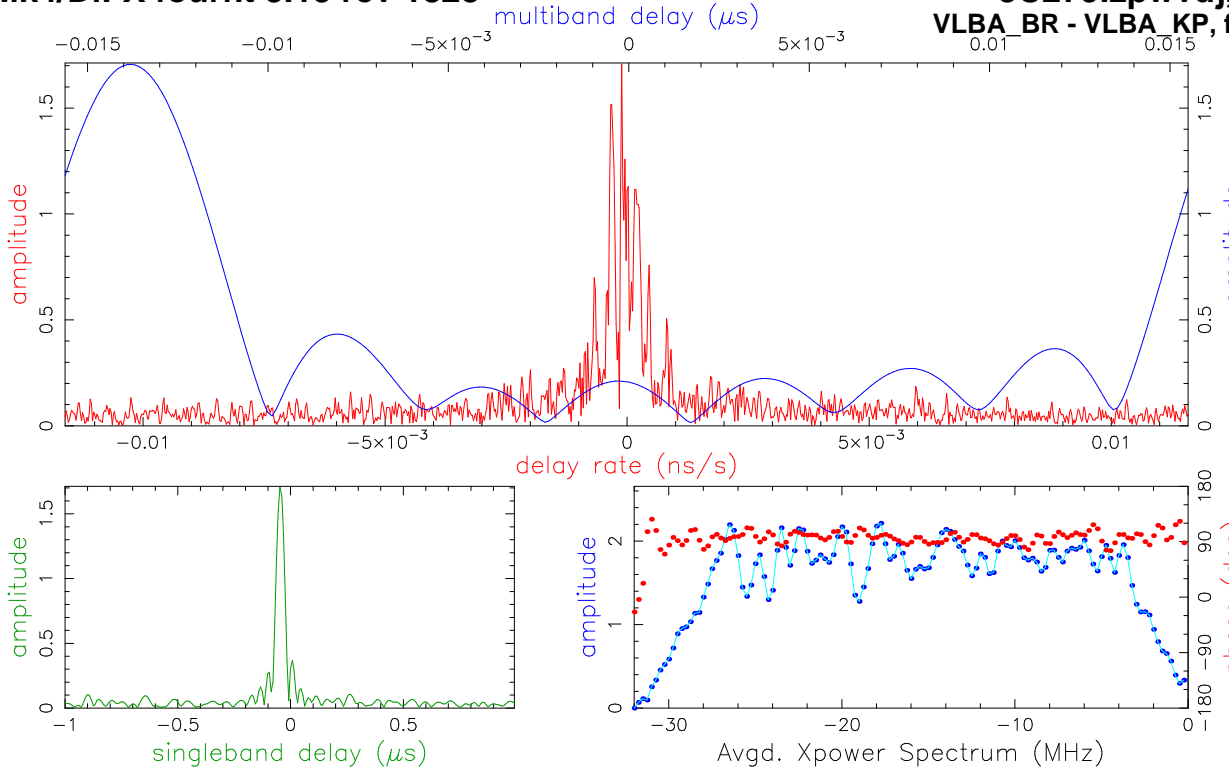
ph/seg (deg) 76.0 RMS 76.0 Theor. 6.9 Amplitude 1.330 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 127.9 12.0 Interp. 0.000 Search (1024X32) 1.238 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 5.3 4.1 Inc. seg. avg. 2.954 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 6.3 7.1 Inc. frq. avg. 1.330 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012

b: az 125.4 el 20.4 pa -33.2 k: az 125.6 el 34.9 pa -43.7 u,v (fr/asec) 498.850 1713.581 ion window (TEC) 0.00 0.00 simultaneous interpolator

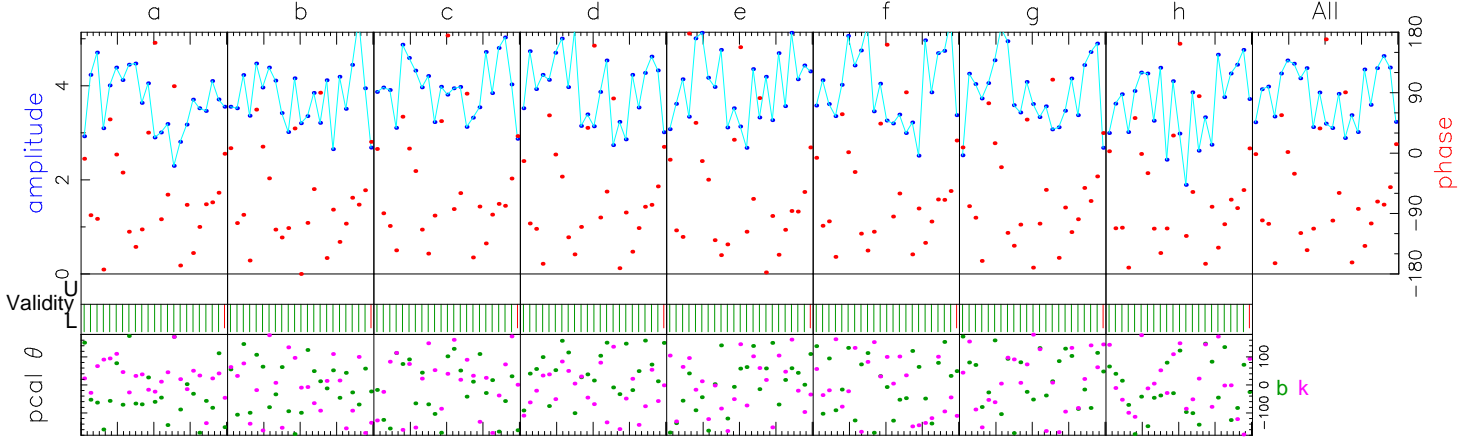


Fringe quality 5

SNR 51.3  
Int time 239.988  
Amp 1.713  
Phase 96.5  
PFD 0.0e+00  
Delays (us)  
SBD -0.045061  
MBD -0.013813  
Fringe rate (Hz) -0.009085  
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  
2017:215:024355  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

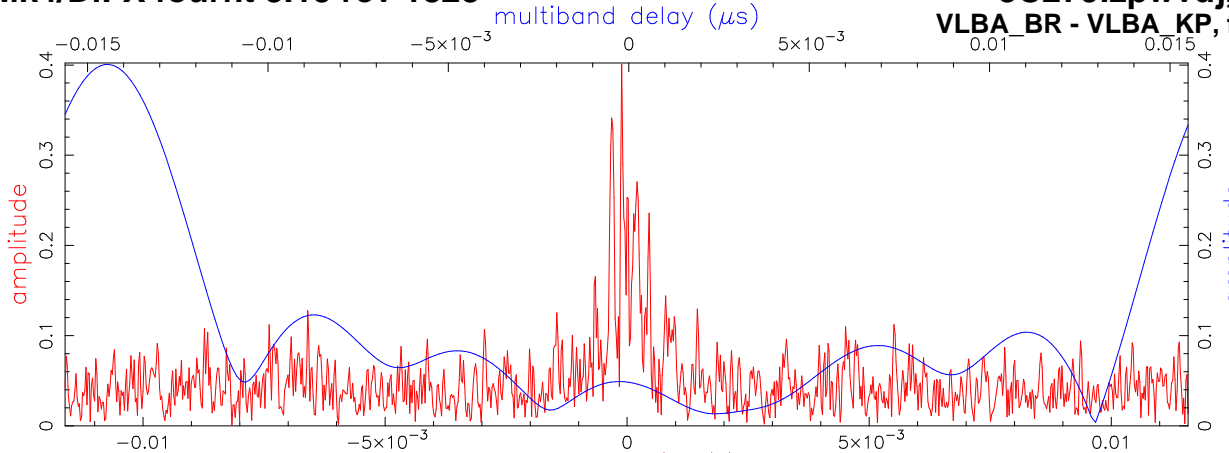
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



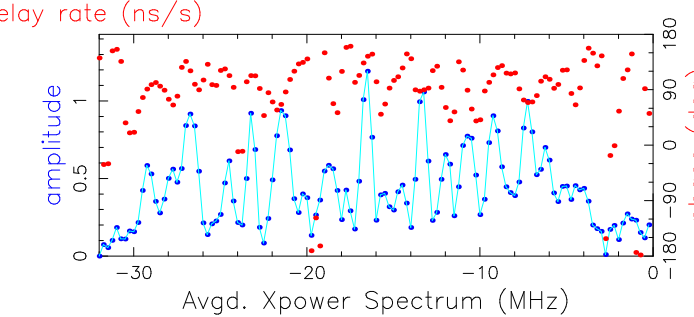
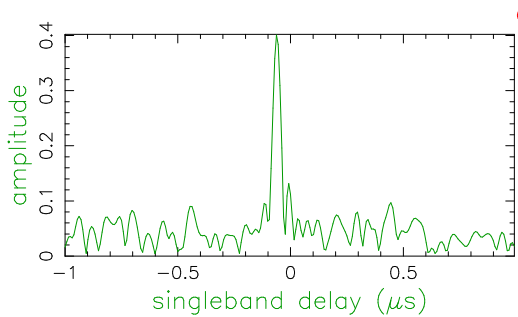
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-83.3	-81.6	-76.8	-88.3	-95.4	-83.2	-77.3	-82.8	Phase	-83.5
	1.7	1.7	1.8	1.8	1.6	1.8	1.7	1.6	Ampl.	1.7
	123.3	123.2	123.3	123.0	123.6	123.3	123.4	122.8	Sbd box	123.2
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480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

ph/seg (deg) 74.1 5.4 Theor. Amplitude 1.713 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 125.9 9.3 Search (1024X32) 1.616 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 6.5 3.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 4.6 5.5 Inc. seg. avg. 3.780 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 Inc. frq. avg. 1.712 Total phase (deg) 96.5 +/- 2.2 ion window (TEC) 0.00 0.00

b: az 125.4 el 20.4 pa -33.2 k: az 125.6 el 34.9 pa -43.7 u,v (fr/asec) 498.850 1713.581 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bk.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/bk.W.6.zpvdj

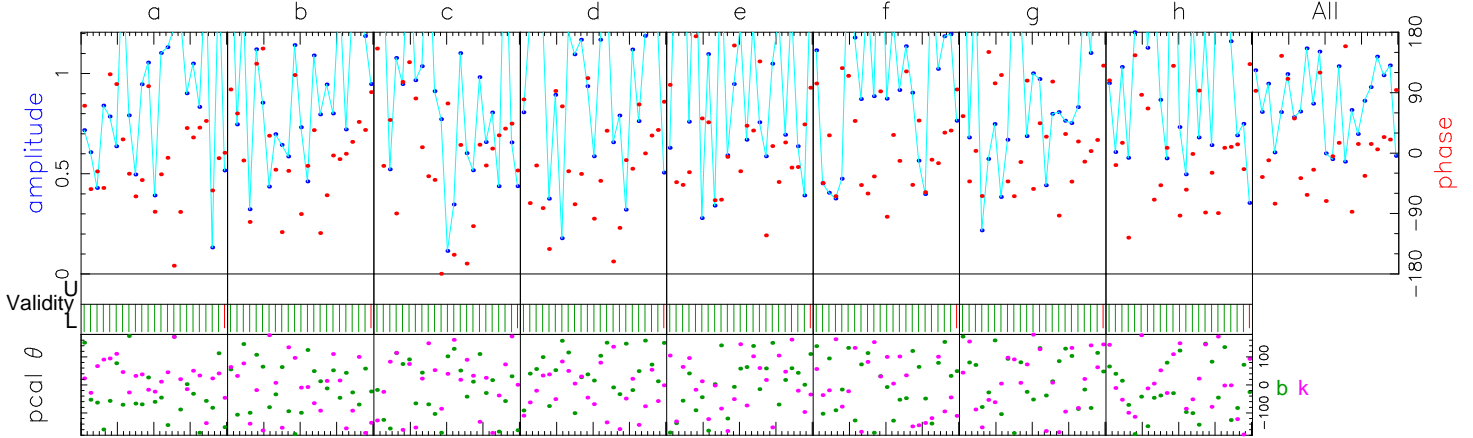


Fringe quality 9  
SNR 12.0  
Int time 239.988  
Amp 0.402  
Phase 187.7  
PFD 2.5e-25  
Delays (us)  
SBD -0.060739  
MBD -0.014462  
Fringe rate (Hz)  
-0.008963  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500



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

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



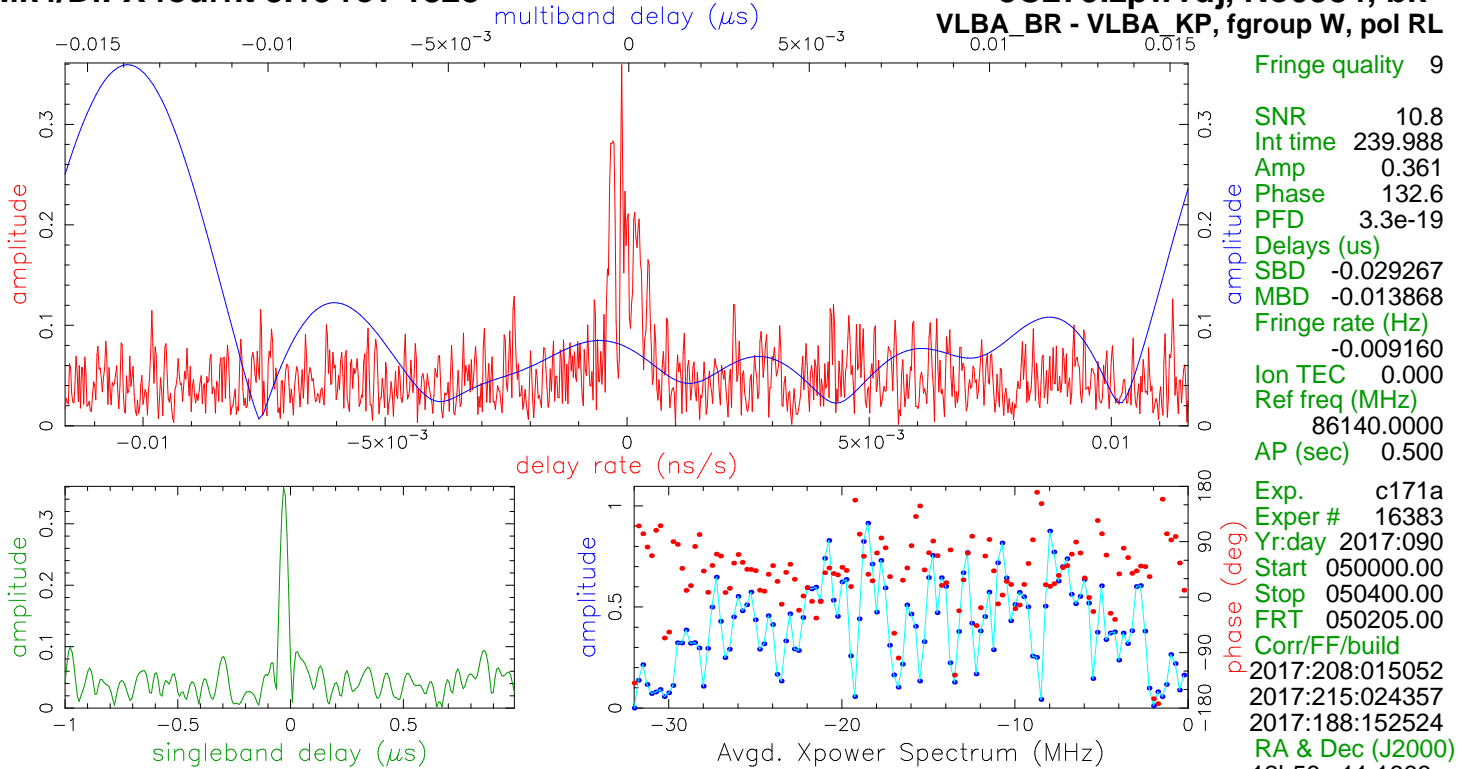
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	121.2	121.2
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	0.4	0.4
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	0.3	0.3
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.5	0.5
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	10.9	6.2
b	1000	1000	1000	1000	1000	1000	1000	1000	0.4	0.4
k	1000	1000	1000	1000	1000	1000	1000	1000	121.1	121.1
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	0/480	0/480
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	-1000	-1000
Group delay (usec)(sbd)	-4.75507596969E+03		Apriori delay (usec)		-4.75503025792E+03		Resid mbdelay (usec)		-1.44618E-02	+/- 1.8E-04
Sband delay (usec)	-4.75509099742E+03		Apriori clock (usec)		-1.3993855E+00		Resid sbdelay (usec)		-6.07395E-02	+/- 1.4E-03
Phase delay (usec)	-4.75503025767E+03		Apriori clockrate (us/s)		1.4645969E-08		Resid phdelay (usec)		2.47006E-07	+/- 3.1E-07
Delay rate (us/s)	-8.36816877459E-02		Apriori rate (us/s)		-8.36815836943E-02		Resid rate (us/s)		-1.04052E-07	+/- 2.2E-09
Total phase (deg)	37.5		Apriori accel (us/s/s)		2.27870506297E-05		Resid phase (deg)		187.7	+/- 9.5

ph/seg (deg) 71.0 22.8  
amp/seg (%) 121.3 39.8  
ph/frq (deg) 15.9 13.4  
amp/frq (%) 17.4 23.5

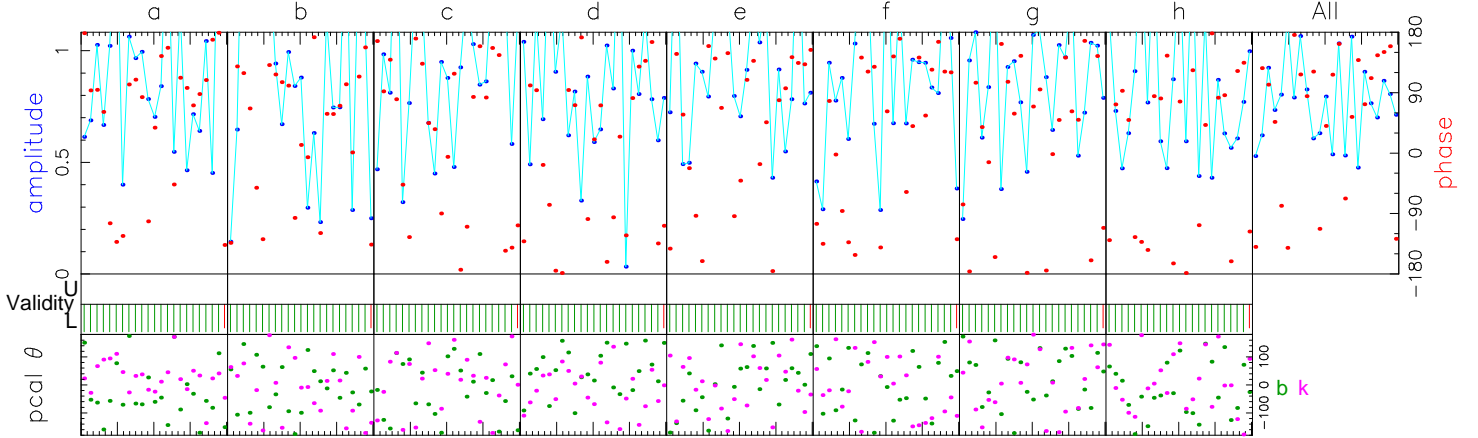
RMS Theor. Amplitude 0.402 +/- 0.033  
Search (1024X32) 0.373  
Interp. 0.000  
Inc. seg. avg. 0.794  
Inc. frq. avg. 0.402

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

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



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

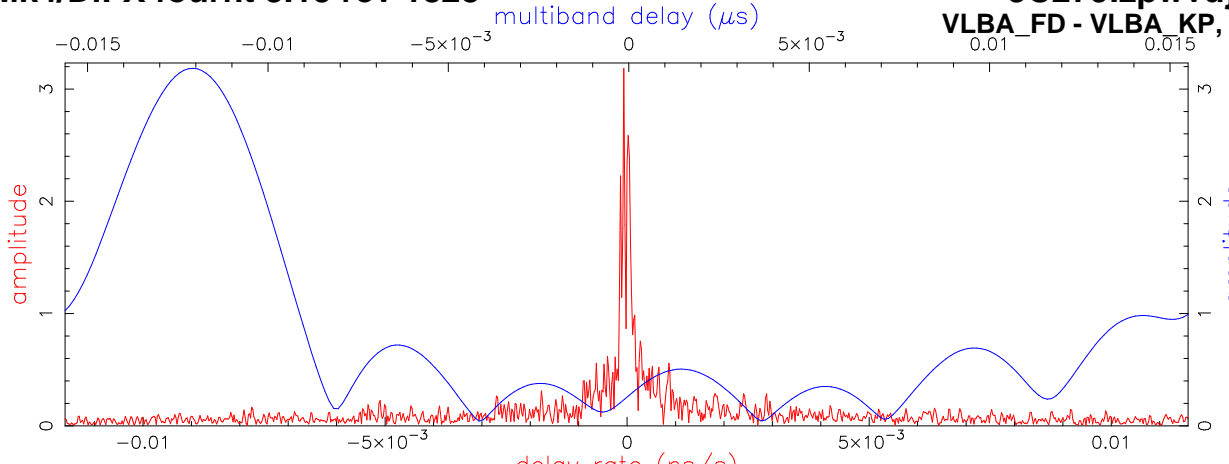


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
140.5	108.1	152.7	156.0	131.7	130.4	120.9	137.5	Phase	132.6
0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.3	Ampl.	0.4
124.8	124.3	125.4	3.2	125.6	125.3	19.5	125.2	Sbd box	125.3
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:k 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:k 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k 1000	1000	1000	1000	1000	1000	1000	1000		
b W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
								Tracks	
k W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
								Tracks	
Group delay (usec)(sbd)	-4.75504412600E+03		Apriori delay (usec)	-4.75503025792E+03		Resid mbdelay (usec)	-1.38681E-02	+/-	2.0E-04
Sband delay (usec)	-4.75505952442E+03		Apriori clock (usec)	-1.3993855E+00		Resid sbdelay (usec)	-2.92665E-02	+/-	1.6E-03
Phase delay (usec)	-4.75503025364E+03		Apriori clockrate (us/s)	1.4645969E-08		Resid phdelay (usec)	4.27659E-06	+/-	3.4E-07
Delay rate (us/s)	-8.36816900343E-02		Apriori rate (us/s)	-8.36815836943E-02		Resid rate (us/s)	-1.06340E-07	+/-	2.5E-09
Total phase (deg)		-17.5	Apriori accel (us/s/s)	2.27870506297E-05		Resid phase (deg)	132.6	+/-	10.6

ph/seg (deg) 72.0 25.4 Theor. Amplitude 0.361 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 126.1 44.3 Search (1024X32) 0.345 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 17.2 15.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 23.6 26.2 Inc. seg. avg. 0.708 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 Inc. frq. avg. 0.358 ion window (TEC) 0.00 0.00

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

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/bk.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/bk.W.8.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

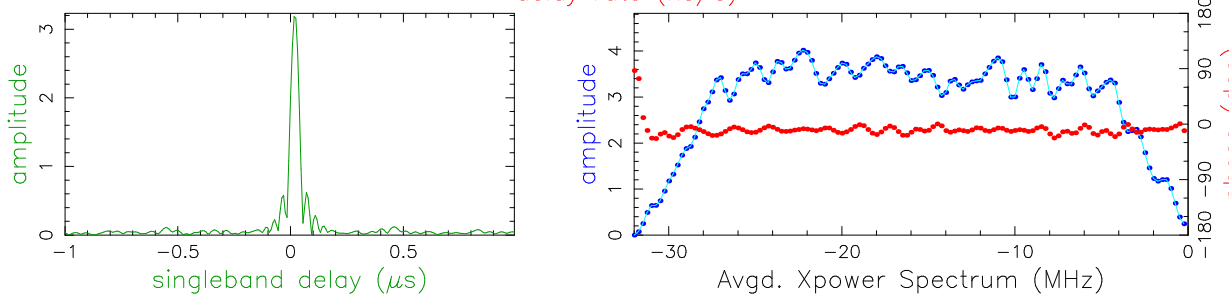
Corr/FF/build

2017:208:015052

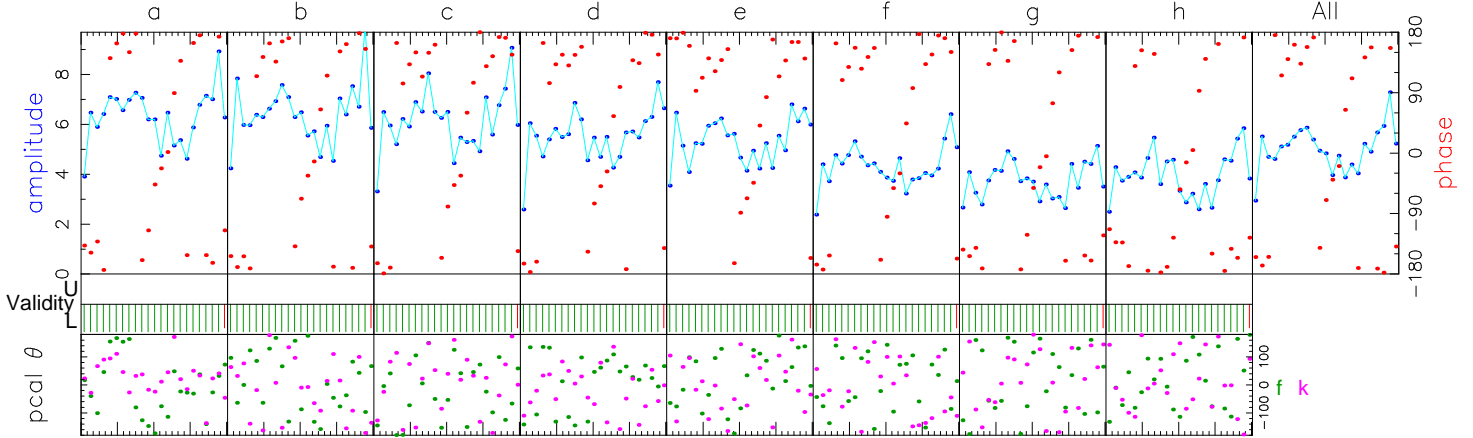
2017:215:024420

2017:188:152524

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

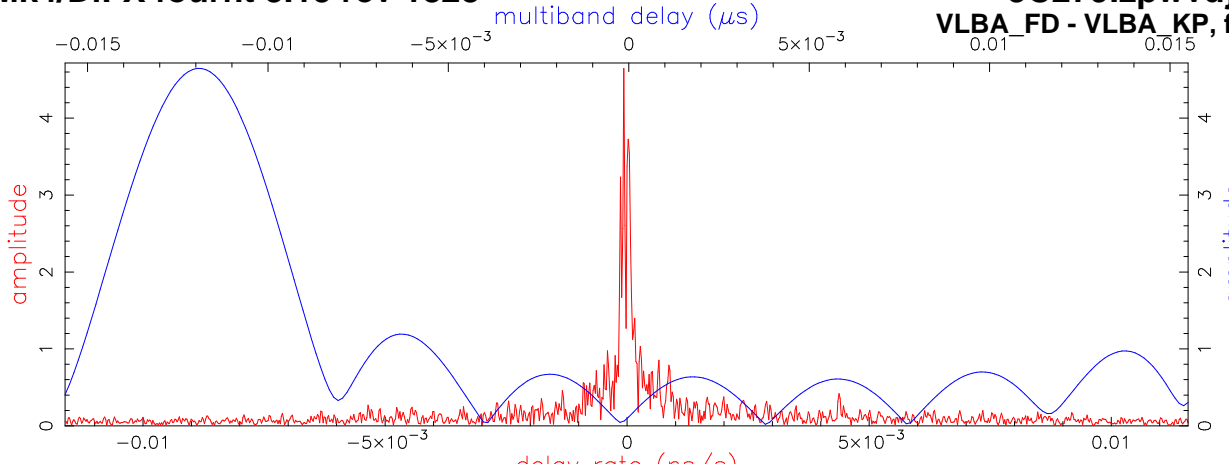


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

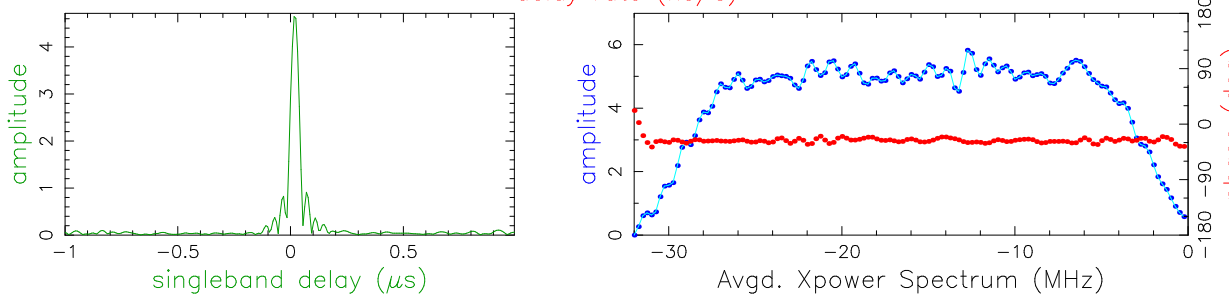


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
	-170.2	172.6	158.5	161.7	150.8	161.1	-176.4	-168.3	Phase	170.5	
	4.0	4.1	3.9	3.4	3.4	2.7	2.3	2.6	Ampl.	3.3	
	131.6	131.2	131.5	131.5	131.3	131.7	131.5	131.3	Sbd box	131.4	
U/L	0/480	0/480	0/480	0/480	0/480	0/480	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	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	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks		
									Chan ids		
									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)			Apriori accel (us/s/s)		-8.93953092600E-06		Resid phase (deg)		-9.5	+/- 1.2	
	RMS	Theor.	Amplitude	3.232 +/- 0.033		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	64.7	2.8	Search (1024X32)	2.795		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000	
amp/seg (%)	61.6	5.0	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	16.8	1.7	Inc. seg. avg.	5.020		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012	
amp/frq (%)	19.9	2.9	Inc. frq. avg.	3.286		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	k: az 125.6 el 34.9 pa -43.7		u,v (fr/asec) 732.439 -101.052						simultaneous interpolator		

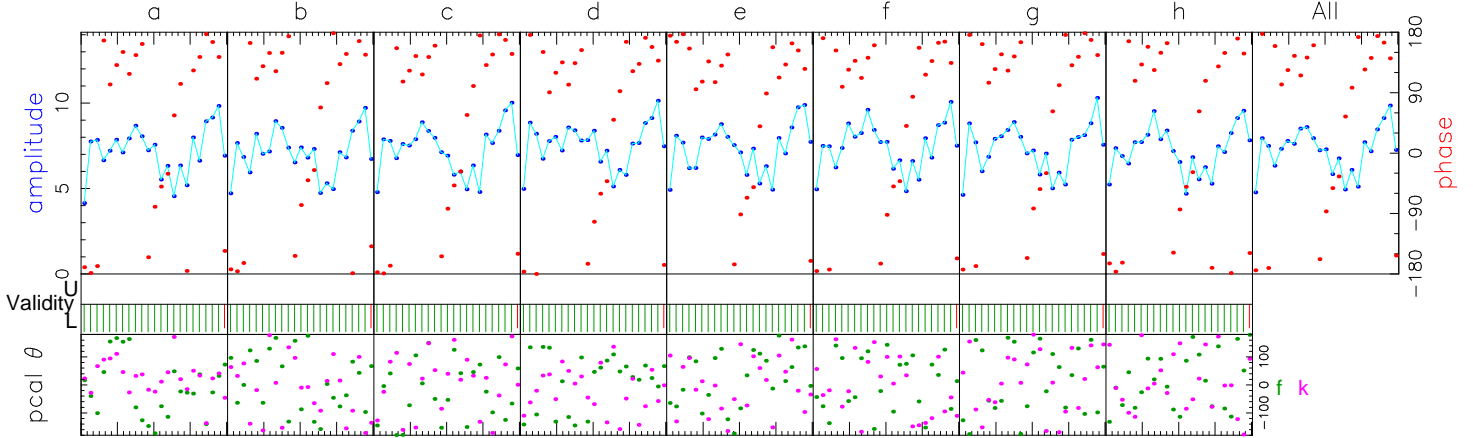




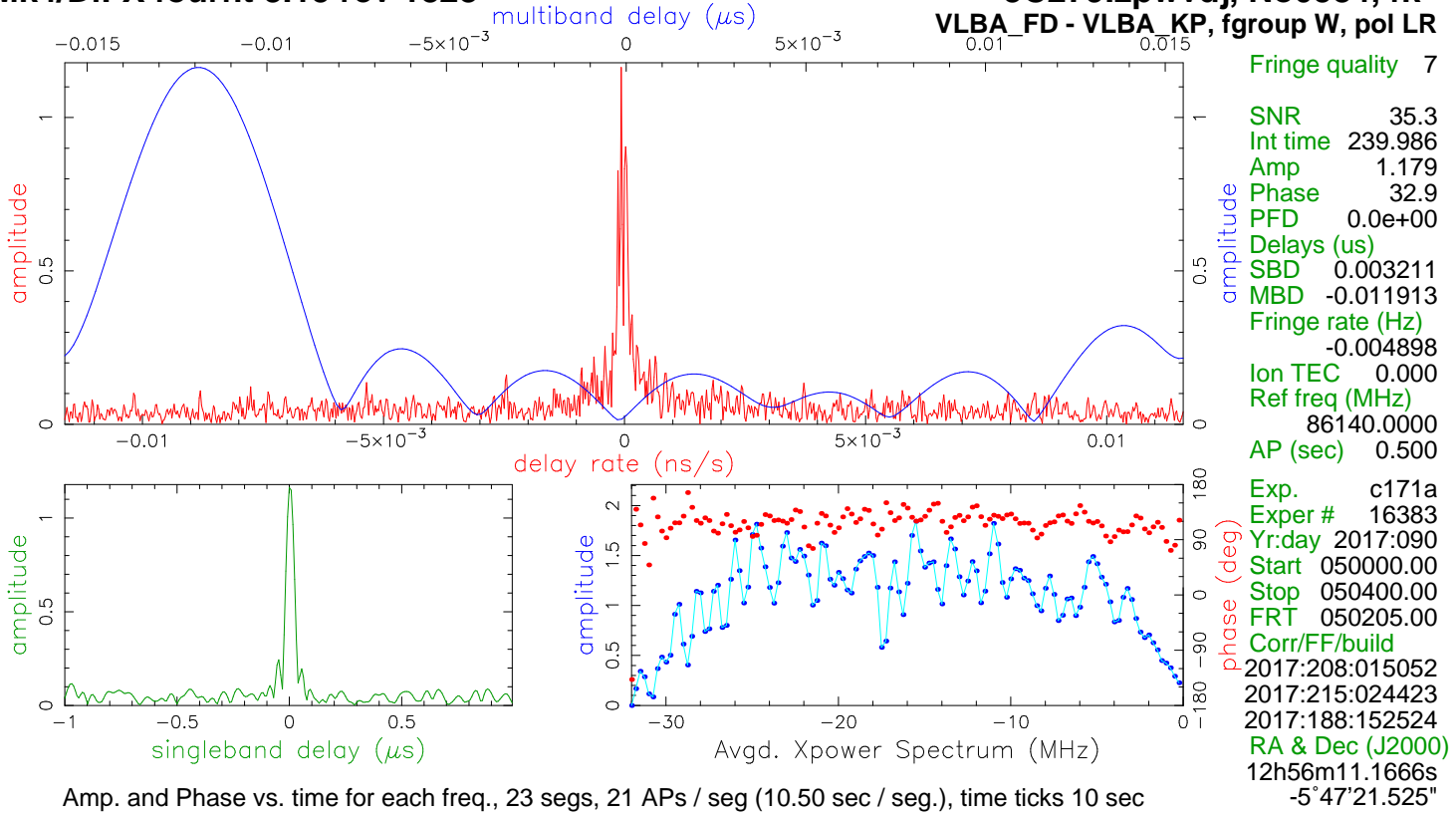
Fringe quality 5  
 SNR 141.3  
 Int time 239.986  
 Amp 4.717  
 Phase -24.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.019080  
 MBD -0.011898  
 Fringe rate (Hz) -0.004945  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024422  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"



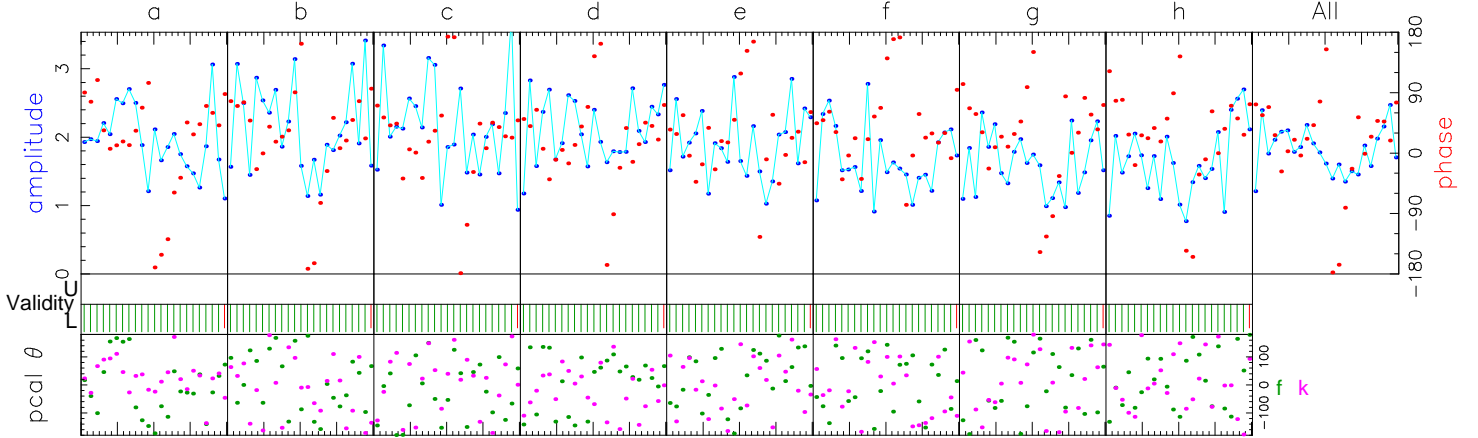
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	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	155.4	
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	155.4	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	4.7	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	131.4	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	4.7	
f	1000	1000	1000	1000	1000	1000	1000	1000	131.4	
k	1000	1000	1000	1000	1000	1000	1000	1000	4.7	
f	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	131.4	
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
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)	RMS 64.3	Theor. 1.9	Amplitude 4.717 +/- 0.033	4.122	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	60.5	3.4	Search (1024X32)	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.016	0.016	
ph/frq (deg)	6.6	1.1	Interp.	7.268	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.012	0.012	
amp/frq (%)	3.0	2.0	Inc. seg. avg.	4.670	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		k: az 125.6 el 34.9 pa -43.7		u,v (fr/asec)	732.439 -101.052					simultaneous interpolator



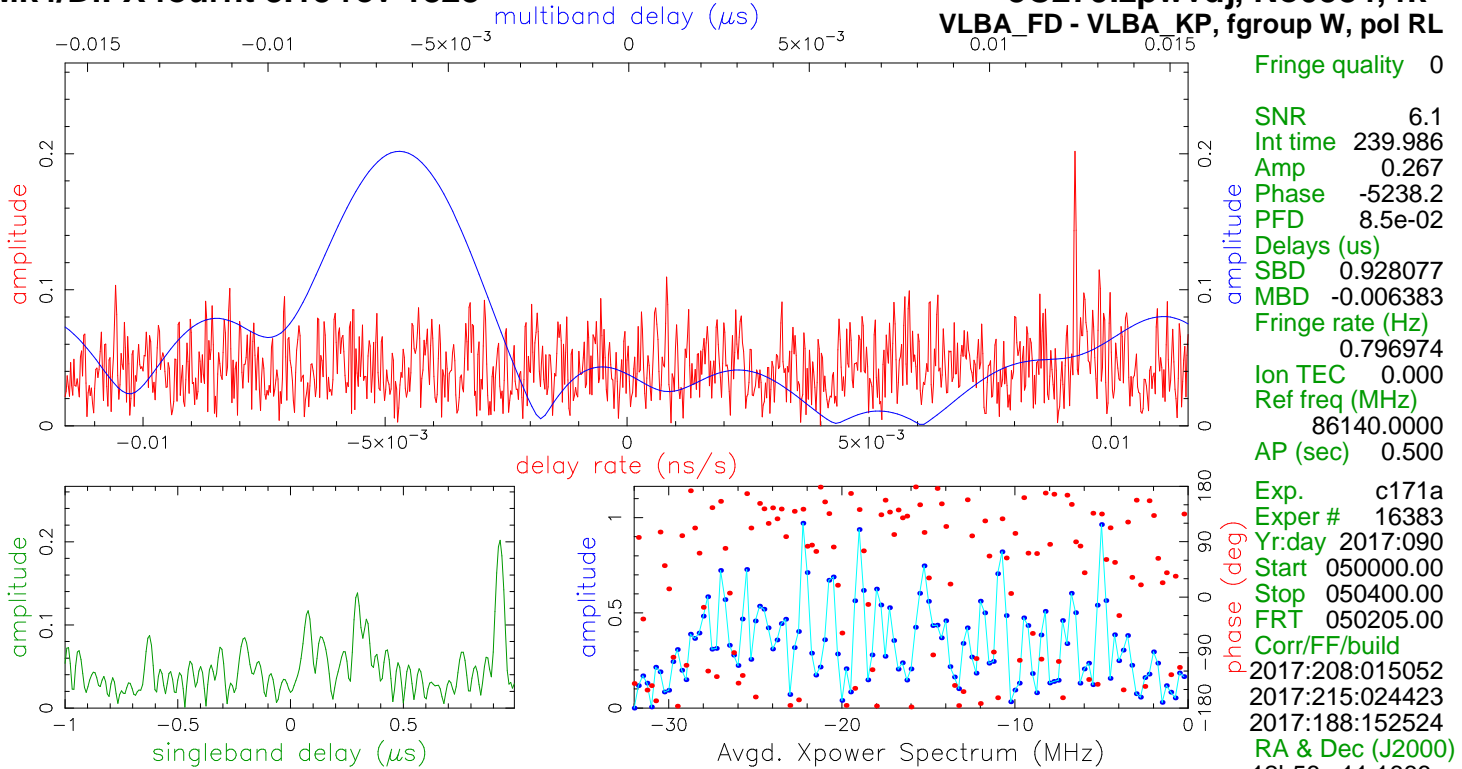
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



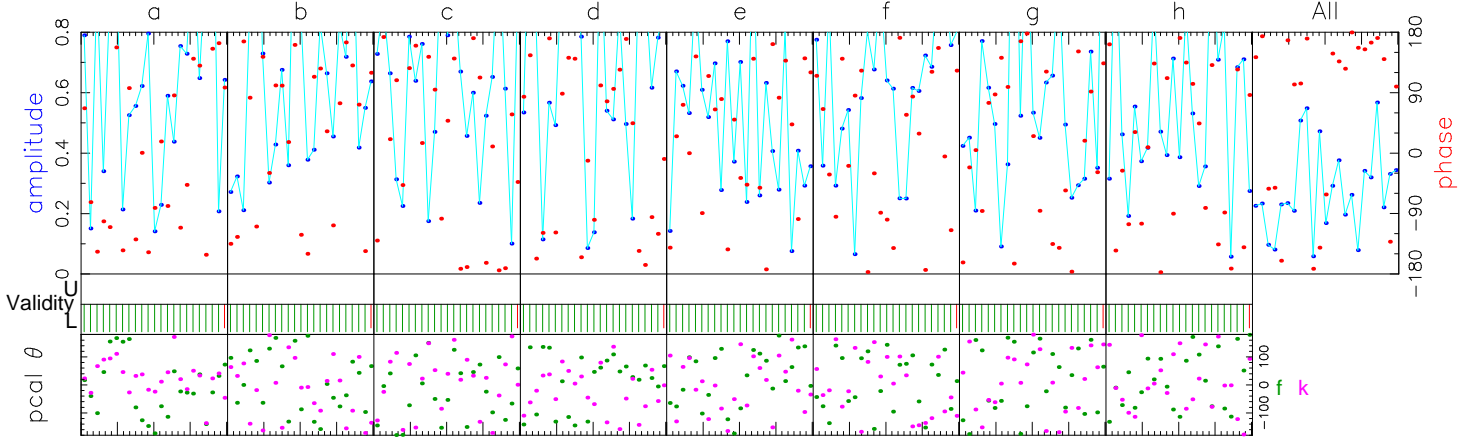
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	42.8	41.0	25.5	22.5	18.1	33.3	39.5	43.1	Phase	32.9
	1.1	1.4	1.3	1.3	1.2	1.1	1.0	1.1	Ampl.	1.2
	129.6	129.3	129.6	129.3	129.3	129.7	129.7	129.0	Sbd box	129.4
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs 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
RMS		Theor.	Amplitude	1.179 +/- 0.033						
ph/seg (deg)	64.3	7.8	Search (1024X32)	1.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	60.5	13.6	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	10.7	4.6	Inc. seg. avg.	1.798	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016	0.016	
amp/frq (%)	12.1	8.0	Inc. frq. avg.	1.175	Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012	
					Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00	

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 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/fk..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/fk.W.31.zpwwdj



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



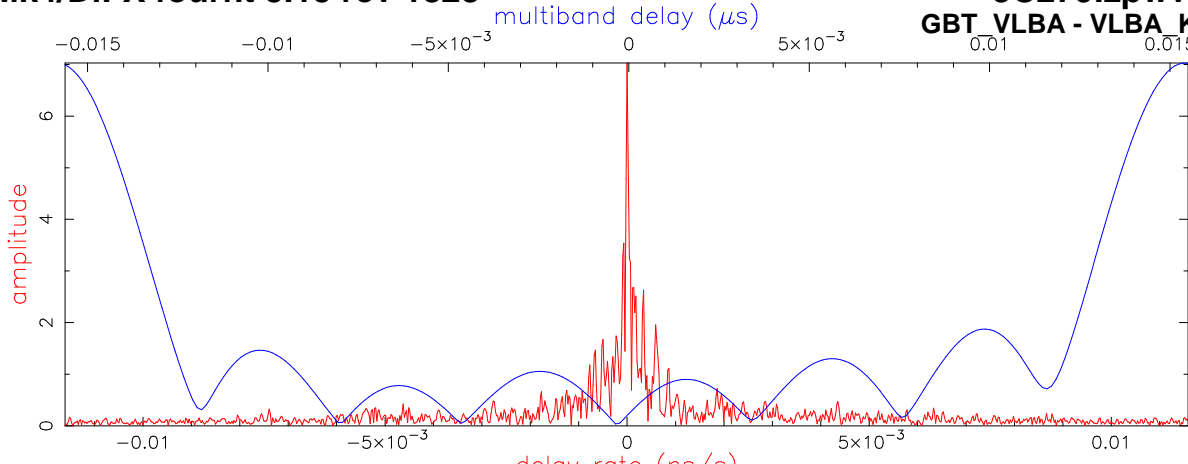
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-173.5	146.5	164.8	156.0	121.9	163.5	172.4	176.3	Phase	161.8
0.3	0.4	0.3	0.5	0.2	0.3	0.3	0.3	Ampl.	0.3
56.1	8.6	137.5	247.9	173.5	147.5	187.9	158.7	Sbd box	247.8
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	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	Manl 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)		-5241.4	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	sb window (us)	-1.000	1.000
amp/seg (%)	79.7	79.1	Search (1024X32) 0.196	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
ph/frq (deg)	21.6	26.7	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
amp/frq (%)	39.2	46.7	Inc. seg. avg. 0.279	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
			Inc. frq. avg. 0.252	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			

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      simultaneous interpolator

Control file: ../cf\_1234    Input file: /Exps/c171a/gmva/1234/No0584/fk..zpwvdj    Output file: /Exps/c171a/gmva/1234/No0584/fk.W.32.zpwvdj

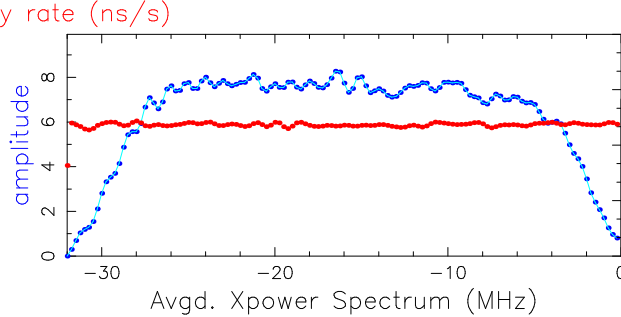
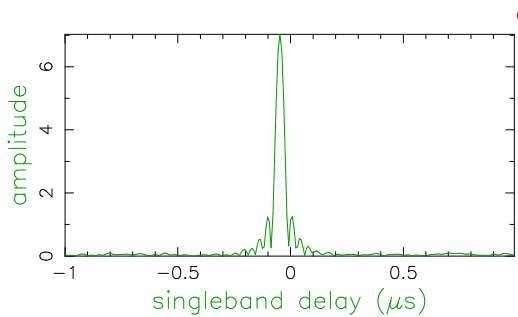




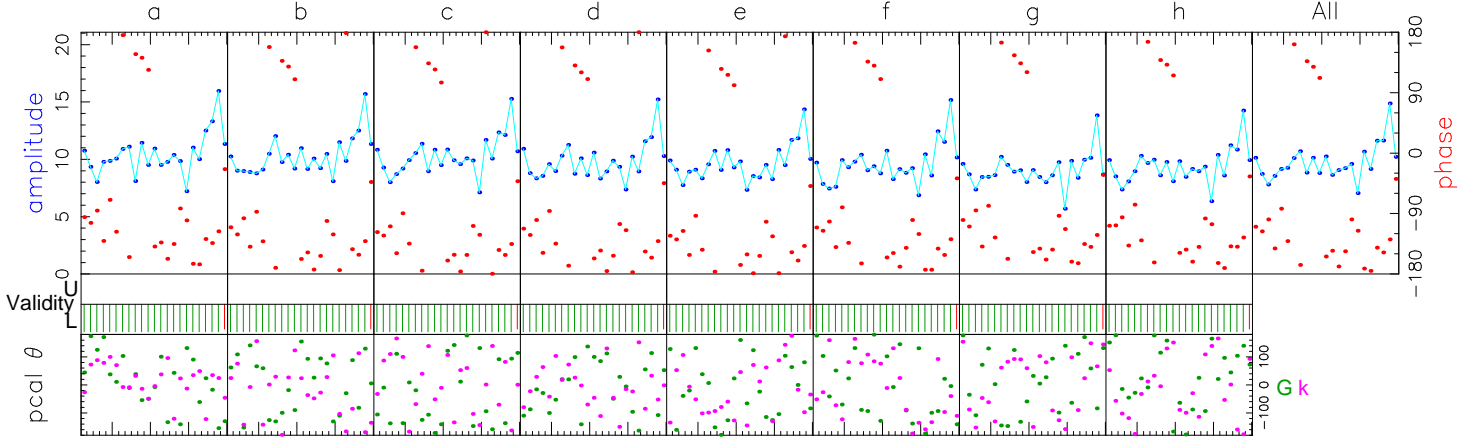
Fringe quality 5

SNR 205.7  
Int time 228.985  
Amp 7.029  
Phase 33.6  
PFD 0.0e+00  
Delays (us)  
SBD -0.047157  
MBD -0.015844  
Fringe rate (Hz)  
-0.000733  
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  
2017:215:024642  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"



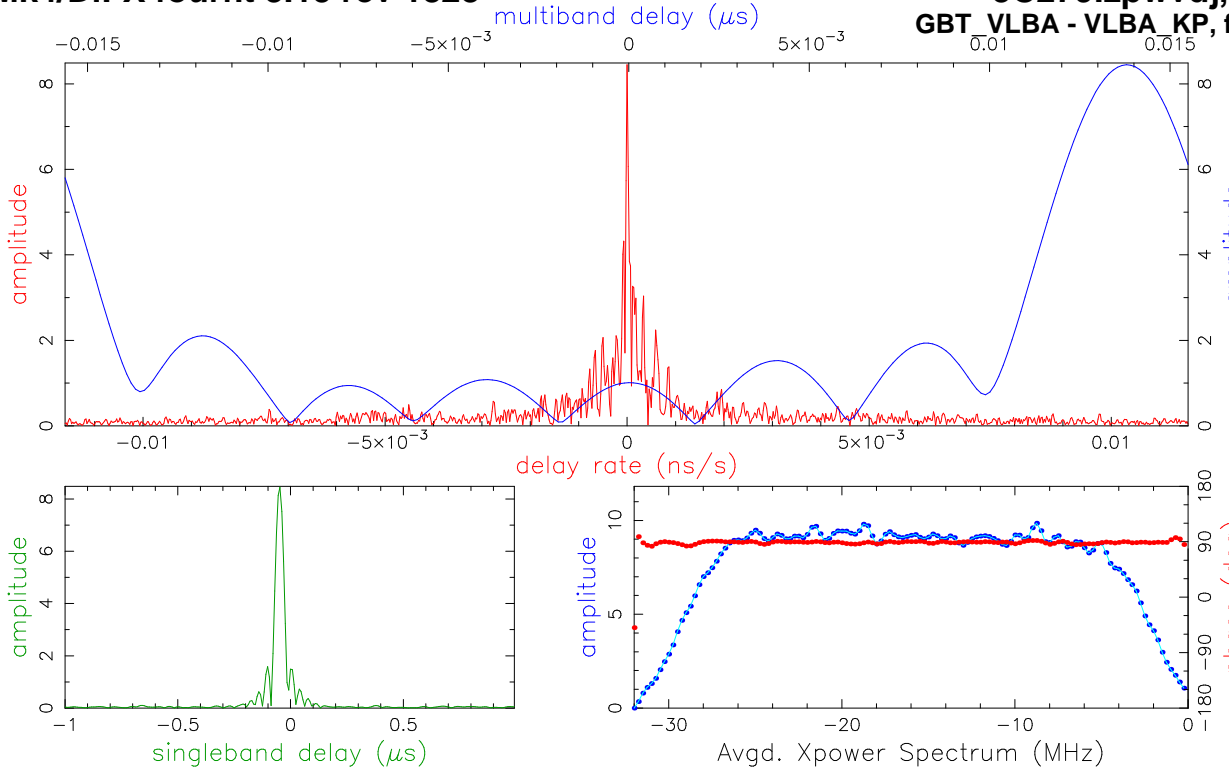
Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-133.8	-149.4	-153.1	-150.1	-156.6	-146.7	-139.9	-141.5	Phase	-146.4
	7.5	7.5	7.5	7.1	6.9	6.9	6.5	6.8	Ampl.	7.1
	122.8	122.9	123.0	123.0	123.0	123.1	123.1	122.9	Sbd box	123.0
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.70470513654E+03		Apriori delay (usec)		2.70475223010E+03		Resid mbdelay (usec)		-1.58436E-02	+/- 1.1E-05
Sband delay (usec)	2.70470507310E+03		Apriori clock (usec)		-8.1979284E+00		Resid sbdelay (usec)		-4.71570E-02	+/- 8.4E-05
Phase delay (usec)	2.70475222538E+03		Apriori clockrate (us/s)		2.3401918E-07		Resid phdelay (usec)		-4.72242E-06	+/- 1.8E-08
Delay rate (us/s)	-6.63779226825E-01		Apriori rate (us/s)		-6.63779218316E-01		Resid rate (us/s)		-8.50940E-09	+/- 1.4E-10
Total phase (deg)	69.9		Apriori accel (us/s/s)		-1.54922608524E-05		Resid phase (deg)		33.6	+/- 0.6
	RMS	Theor.	Amplitude	7.029 +/- 0.034	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	47.5	1.3	Search (1024X32)	6.665	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000
amp/seg (%)	44.5	2.3	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		-0.016	0.016
ph/frq (deg)	8.1	0.8	Inc. seg. avg.	9.748	Sample rate(MSamp/s): 64		dr window (ns/s)		-0.012	0.012
amp/frq (%)	4.8	1.4	Inc. frq. avg.	7.081	Data rate(Mb/s): 1024		ion window (TEC)		0.00	0.00
					nlags: 128 t_cohere infinite					

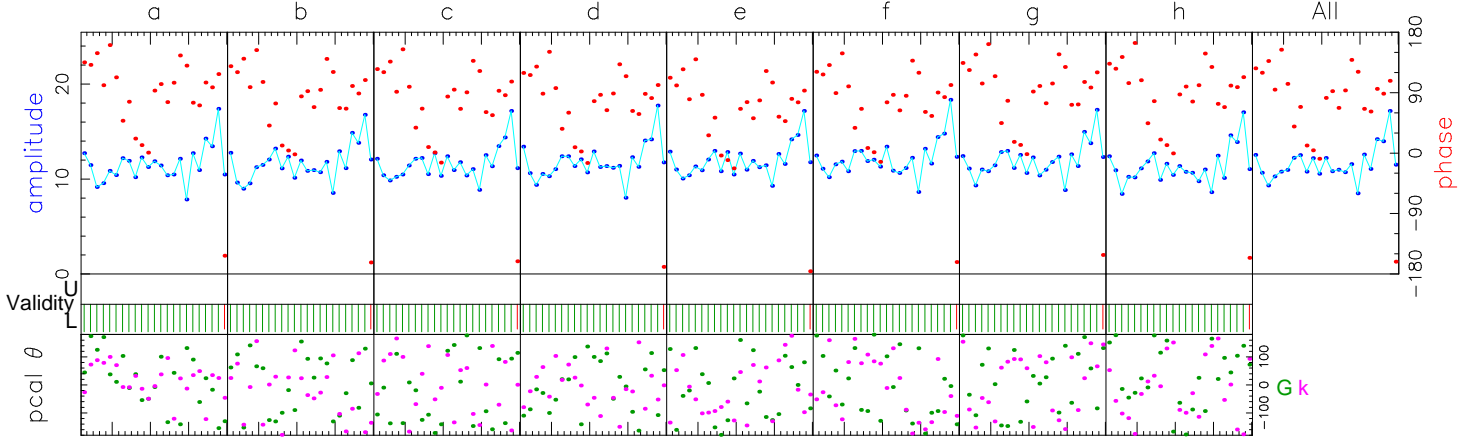
G: az 165.5 el 44.7 pa -11.0 k: az 125.6 el 34.9 pa -43.7 u,v (fr/asec) 3810.725 939.717 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/Gk.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/Gk.W.161.zpwwdj



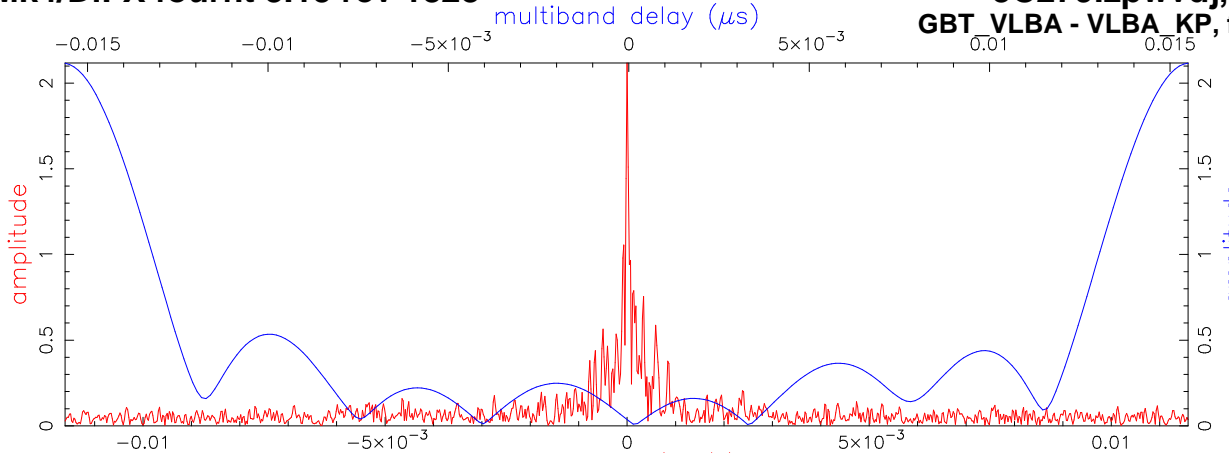
Fringe quality 5  
 SNR 248.4  
 Int time 228.985  
 Amp 8.489  
 Phase 449.7  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.048870  
 MBD 0.013800  
 Fringe rate (Hz)  
 -0.000766  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050011.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024643  
 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

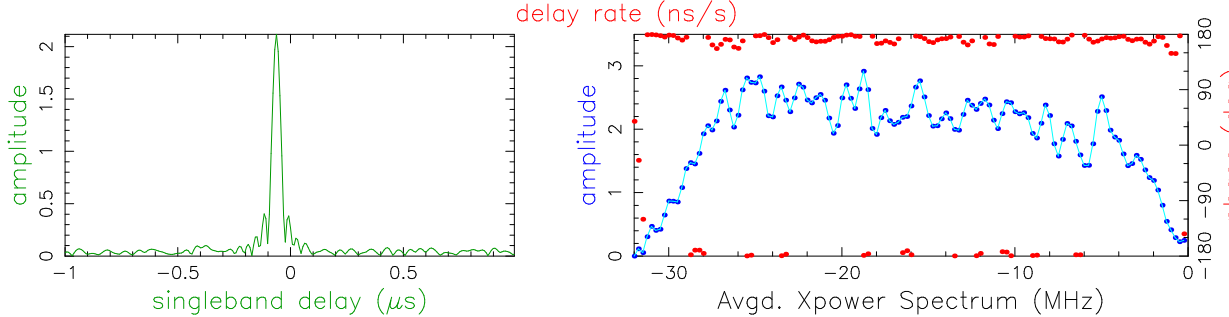


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	99.1	91.8	87.7	84.0	75.0	85.1	98.6	97.0	Phase	89.7
	8.4	8.5	8.3	8.7	8.7	8.8	8.6	8.3	Ampl.	8.5
	122.6	122.7	122.8	122.7	122.8	122.9	122.8	122.6	Sbd box	122.7
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.70470352979E+03		Apriori delay (usec)		2.70475223010E+03		Resid mbdelay (usec)		1.37997E-02	+/- 8.7E-06
Sband delay (usec)	2.70470336060E+03		Apriori clock (usec)		-8.1979284E+00		Resid sbdelay (usec)		-4.88695E-02	+/- 6.9E-05
Phase delay (usec)	2.70475223299E+03		Apriori clockrate (us/s)		2.3401918E-07		Resid phdelay (usec)		2.89249E-06	+/- 1.5E-08
Delay rate (us/s)	-6.63779227202E-01		Apriori rate (us/s)		-6.63779218316E-01		Resid rate (us/s)		-8.88670E-09	+/- 1.1E-10
Total phase (deg)	486.1		Apriori accel (us/s/s)		-1.54922608524E-05		Resid phase (deg)		449.7	+/- 0.5

ph/seg (deg) 47.3 1.1 Search (1024X32) 8.001 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 42.6 1.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 9.1 0.7 Inc. seg. avg. 11.660 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 2.2 1.1 Inc. frq. avg. 8.528 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 G: az 165.5 el 44.7 pa -11.0 k: az 125.6 el 34.9 pa -43.7 u,v (fr/asec) 3810.725 939.717 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/Gk.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/Gk.W.162.zpvdj

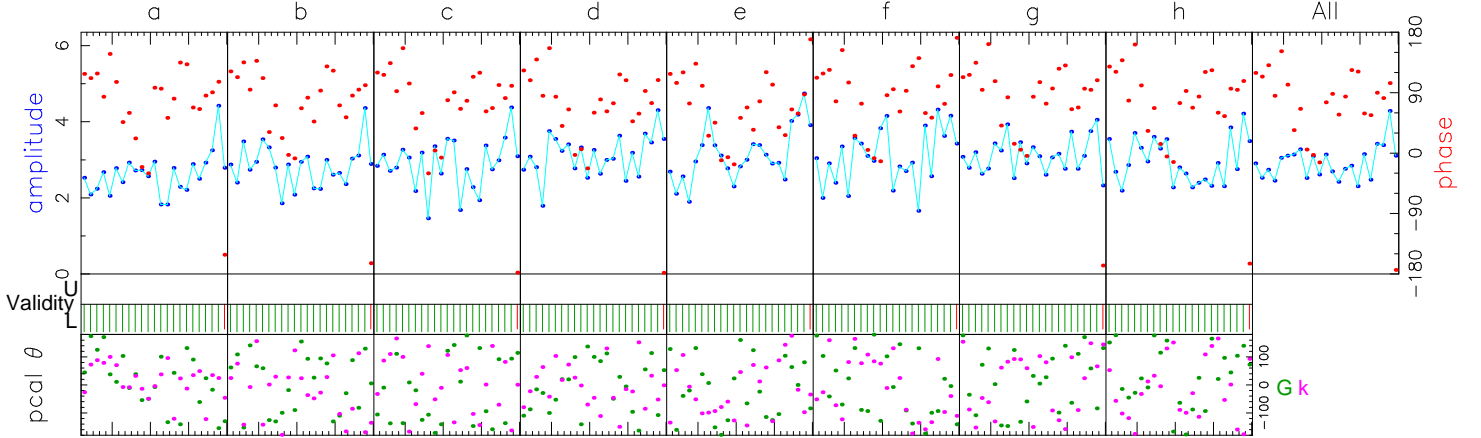


Fringe quality 5  
 SNR 62.0  
 Int time 228.985  
 Amp 2.118  
 Phase 445.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.062719  
 MBD -0.015702  
 Fringe rate (Hz)  
 -0.000718  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500



Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050011.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024644  
 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
	87.3	89.4	88.6	82.8	68.9	84.9	91.9	88.5	Phase	85.2
	1.8	2.1	2.1	2.2	2.3	2.1	2.4	2.0	Ampl.	2.1
	121.0	121.0	121.0	120.8	121.0	121.2	121.2	120.6	Sbd box	121.0
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
G	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)	2.70467402829E+03		Apriori delay (usec)		2.70475223010E+03		Resid mbdelay (usec)		-1.57018E-02	+/- 3.5E-05
Sband delay (usec)	2.70468951160E+03		Apriori clock (usec)		-8.1979284E+00		Resid sbdelay (usec)		-6.27185E-02	+/- 2.8E-04
Phase delay (usec)	2.70475223285E+03		Apriori clockrate (us/s)		2.3401918E-07		Resid phdelay (usec)		2.74763E-06	+/- 6.0E-08
Delay rate (us/s)	-6.63779226655E-01		Apriori rate (us/s)		-6.63779218316E-01		Resid rate (us/s)		-8.33962E-09	+/- 4.5E-10
Total phase (deg)	481.6		Apriori accel (us/s/s)		-1.54922608524E-05		Resid phase (deg)		445.2	+/- 1.8

ph/seg (deg) 46.9 4.4  
 amp/seg (%) 43.5 7.7  
 ph/frq (deg) 7.8 2.6  
 amp/frq (%) 6.8 4.6

RMS Theor. Amplitude 2.118 +/- 0.034  
 Search (1024X32) 2.020  
 Interp. 0.000  
 Inc. seg. avg. 2.923  
 Inc. frq. avg. 2.131

Group delay (usec)(sbd) 2.70467402829E+03  
 Sband delay (usec) 2.70468951160E+03  
 Phase delay (usec) 2.70475223285E+03  
 Delay rate (us/s) -6.63779226655E-01  
 Total phase (deg) 481.6

Apriori delay (usec) 2.70475223010E+03  
 Apriori clock (usec) -8.1979284E+00  
 Apriori clockrate (us/s) 2.3401918E-07  
 Apriori rate (us/s) -6.63779218316E-01  
 Apriori accel (us/s/s) -1.54922608524E-05

Resid mbdelay (usec) -1.57018E-02  
 Resid sbdelay (usec) -6.27185E-02  
 Resid phdelay (usec) 2.74763E-06  
 Resid rate (us/s) -8.33962E-09  
 Resid phase (deg) 445.2

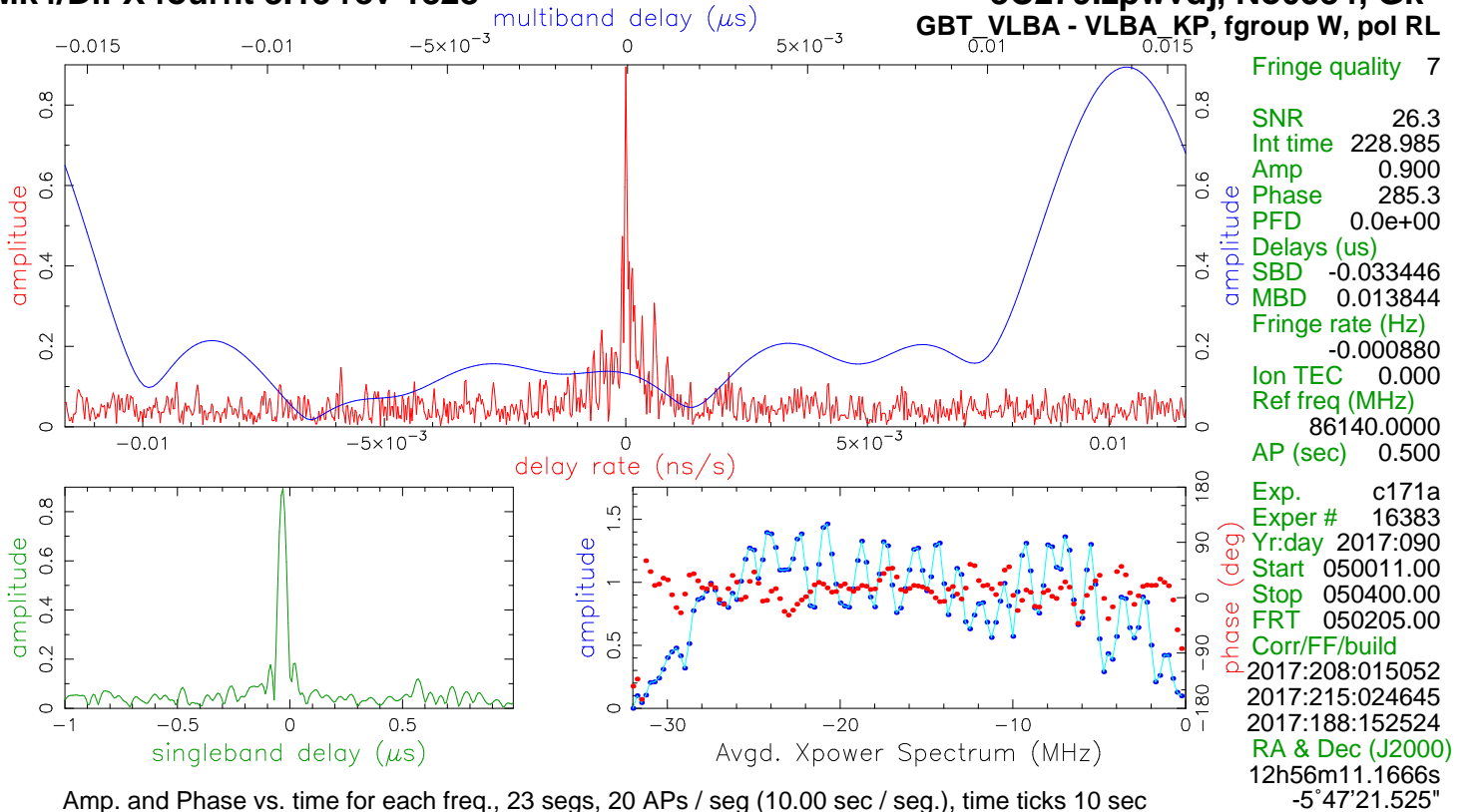
PCal mode: MANUAL, MANUAL  
 PCal rate: 0.000E+00, 0.000E+00 (us/s)  
 Bits/sample: 2x2  
 Sample rate(MSamp/s): 64  
 Data rate(Mb/s): 1024

PC period (AP's) 5, 5  
 sb window (us) -1.000 1.000  
 SampCntNorm: enabled  
 mb window (us) -0.016 0.016  
 dr window (ns/s) -0.012 0.012  
 ion window (TEC) 0.00 0.00

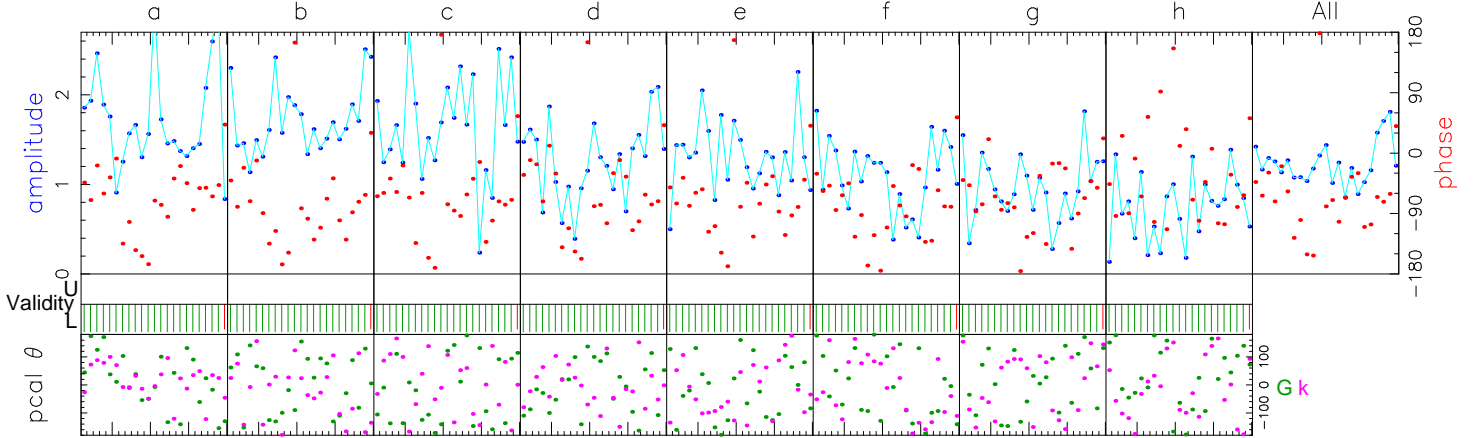
nlags: 128 t\_cohere infinite

G: az 165.5 el 44.7 pa -11.0 k: az 125.6 el 34.9 pa -43.7 u,v (fr/asec) 3810.725 939.717 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/Gk..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/Gk.W.163.zpwwdj



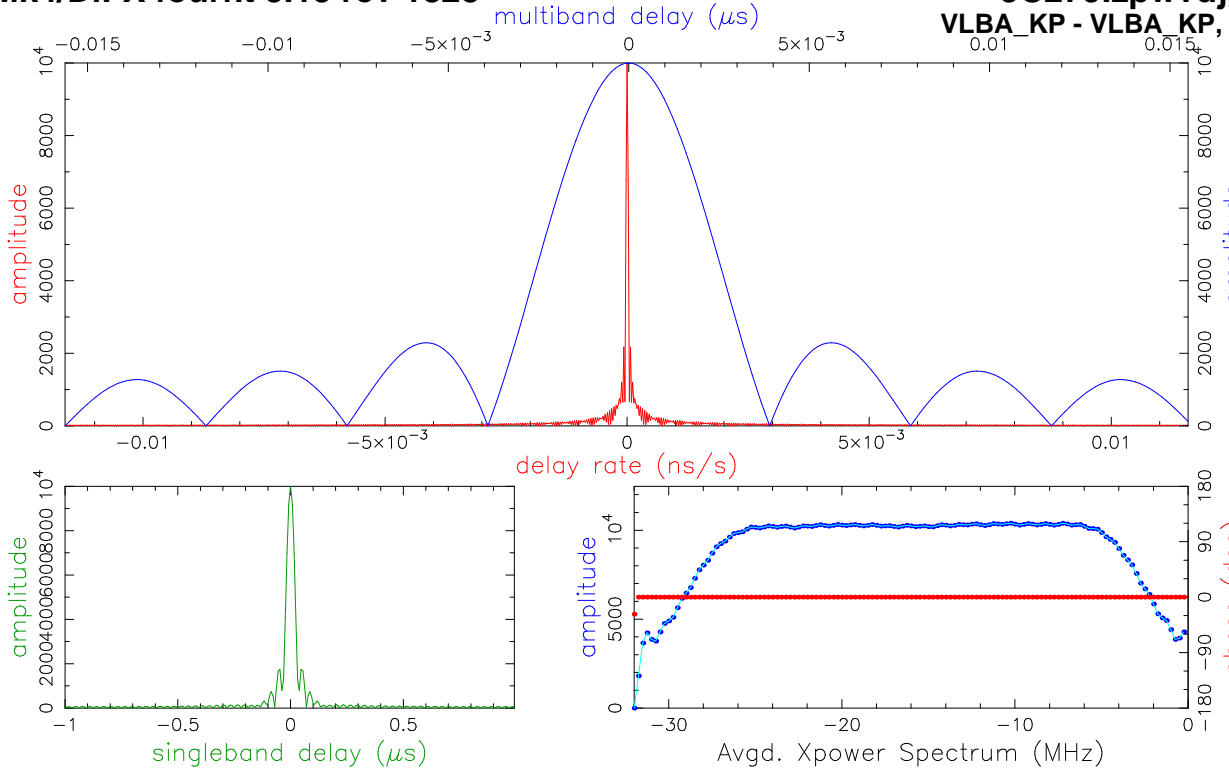
Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
	-64.7	-88.2	-77.9	-61.2	-82.0	-86.1	-66.0	-63.9	Phase	-74.7	
	1.3	1.1	1.2	0.8	0.9	0.8	0.7	0.4	Ampl.	0.9	
	124.5	124.5	124.9	124.8	124.9	125.1	124.9	124.3	Sbd box	124.7	
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used		
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
G:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
G:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC		
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
k	1000	1000	1000	1000	1000	1000	1000	1000			
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids		
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks		
									Tracks		
Group delay (usec)(sbd)		2.70470357416E+03		Apriori delay (usec)		2.70475223010E+03		Resid mbdelay (usec)	1.38441E-02	+/- 8.2E-05	
Sband delay (usec)		2.70471878410E+03		Apriori clock (usec)		-8.1979284E+00		Resid sbdelay (usec)	-3.34460E-02	+/- 6.5E-04	
Phase delay (usec)		2.70475222769E+03		Apriori clockrate (us/s)		2.3401918E-07		Resid phdelay (usec)	-2.40820E-06	+/- 1.4E-07	
Delay rate (us/s)		-6.63779228536E-01		Apriori rate (us/s)		-6.63779218316E-01		Resid rate (us/s)	-1.02203E-08	+/- 1.1E-09	
Total phase (deg)			321.7	Apriori accel (us/s/s)		-1.54922608524E-05		Resid phase (deg)	285.3	+/- 4.4	
RMS		Theor.	Amplitude	0.900 +/- 0.034							
ph/seg (deg)	47.6	10.4	Search (1024X32)	0.826		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
amp/seg (%)	45.1	18.2	Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000	
ph/frq (deg)	11.9	6.2	Inc. seg. avg.	1.213		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016	0.016
amp/frq (%)	30.8	10.7	Inc. frq. avg.	0.904		Sample rate(MSamp/s): 64			dr window (ns/s)	-0.012	0.012
						Data rate(Mb/s): 1024		nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00

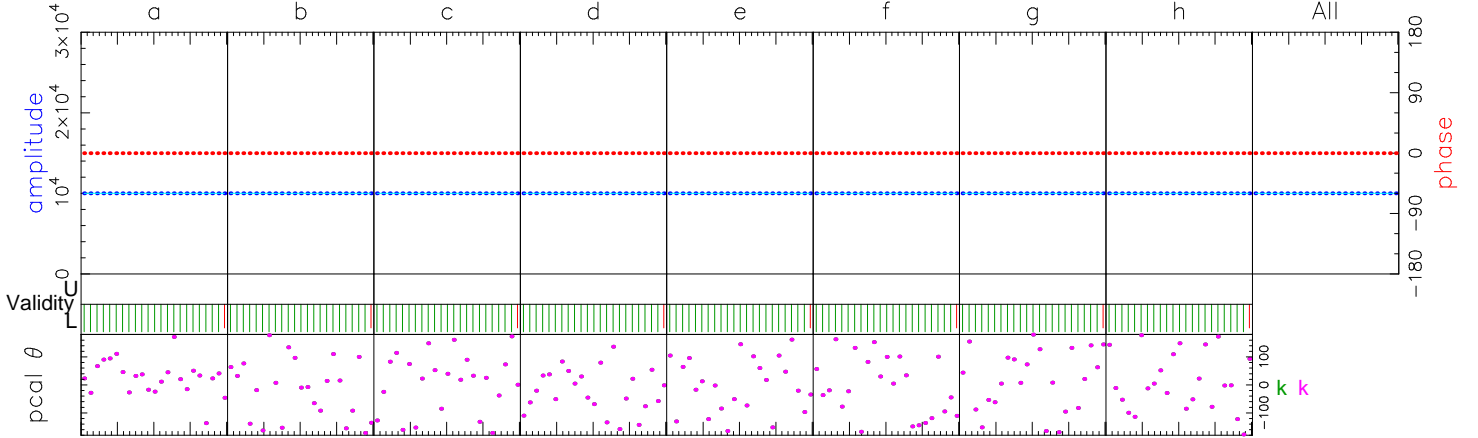
G: az 165.5 el 44.7 pa -11.0 k: az 125.6 el 34.9 pa -43.7 u,v (fr/asec) 3810.725 939.717 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/Gk.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/Gk.W.164.zpwwdj



Fringe quality 9  
 SNR 299555.4  
 Int time 239.988  
 Amp 10000.000  
 Phase 0.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.000000  
 MBD 0.000000  
 Fringe rate (Hz)  
 0.000000  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024600  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

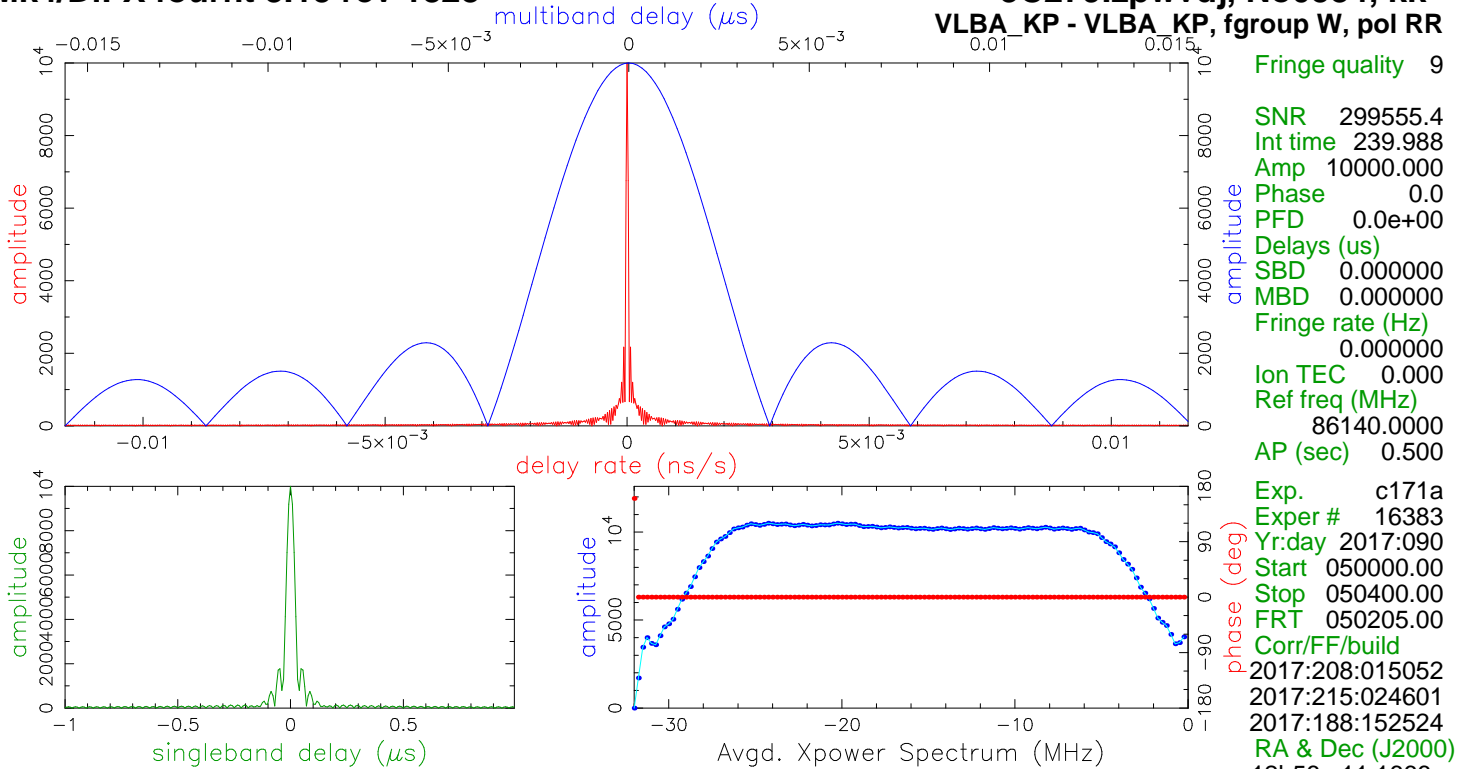
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



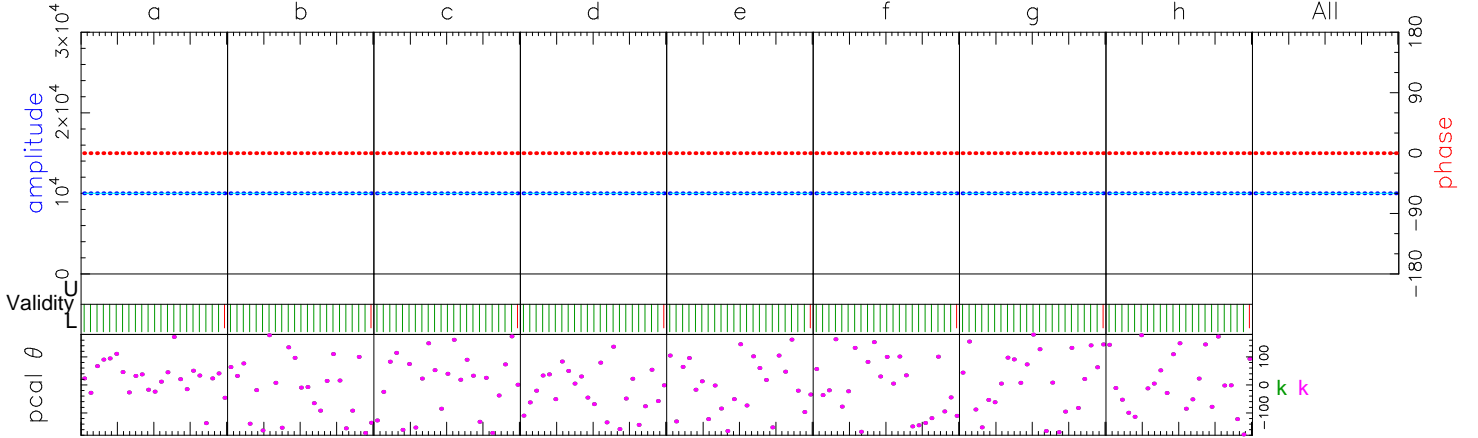
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480			
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000			
k:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
k:k	1000	1000	1000	1000	1000	1000	1000	1000			
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL			
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL			
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		+/- 7.2E-09	
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		+/- 5.8E-08	
Phase delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		+/- 1.2E-11	
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		+/- 8.9E-14	
Total phase (deg)			0.0								+/- 0.0
Apriori delay (usec)											
Apriori clock (usec)											
Apriori clockrate (us/s)											
Apriori rate (us/s)											
Apriori accel (us/s/s)											
Resid mbdelay (usec)											
Resid sbdelay (usec)											
Resid phdelay (usec)											
Resid rate (us/s)											
Resid phase (deg)											
Pcal mode: MANUAL, MANUAL											
Pcal rate: 0.000E+00, 0.000E+00 (us/s)											
PCal period (AP's) 5, 5											
sb window (us)											-1.000 1.000
Bits/sample: 2x2											
SampCntNorm: enabled											
Sample rate(MSamp/s): 64											
Data rate(Mb/s): 1024											
nlags: 128 t_cohere infinite											
ion window (TEC)											0.00 0.00

ph/seg (deg) 0.0 0.0  
 amp/seg (%) 0.0 0.0  
 ph/frq (deg) 0.0 0.0  
 amp/frq (%) 0.0 0.0  
 k: az 125.6 el 34.9 pa -43.7 k: az 125.6 el 34.9 pa -43.7 u,v (fr/asec) 0.000 0.000  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kk.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/kk.W.121.zpvdj  
 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
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	
k -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC phase	
k:k 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k:k 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
k 1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
k 1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
k W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
k W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	7.2E-09		
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	5.8E-08		
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.2E-11		
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	8.9E-14		
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0		

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

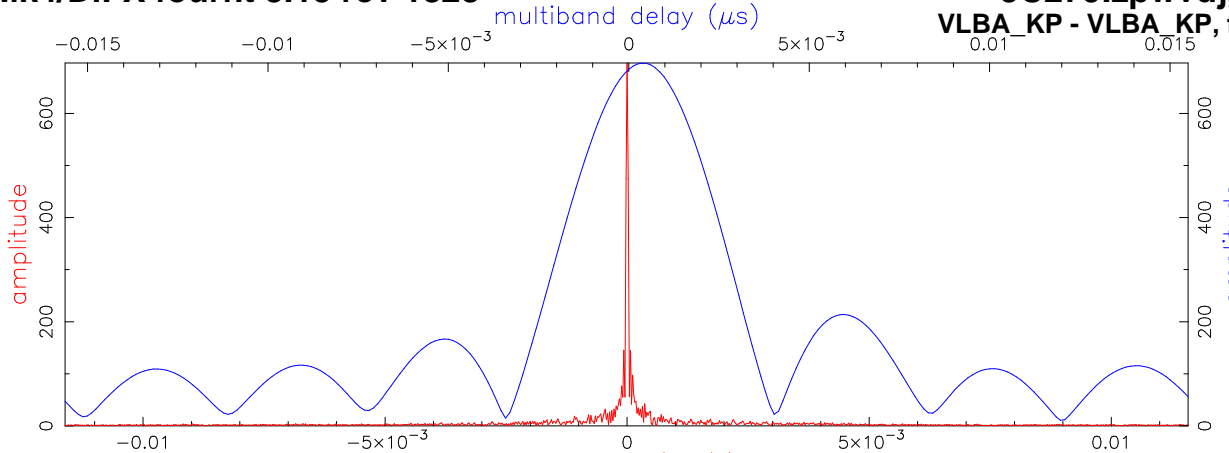
amp/seg (%) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

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

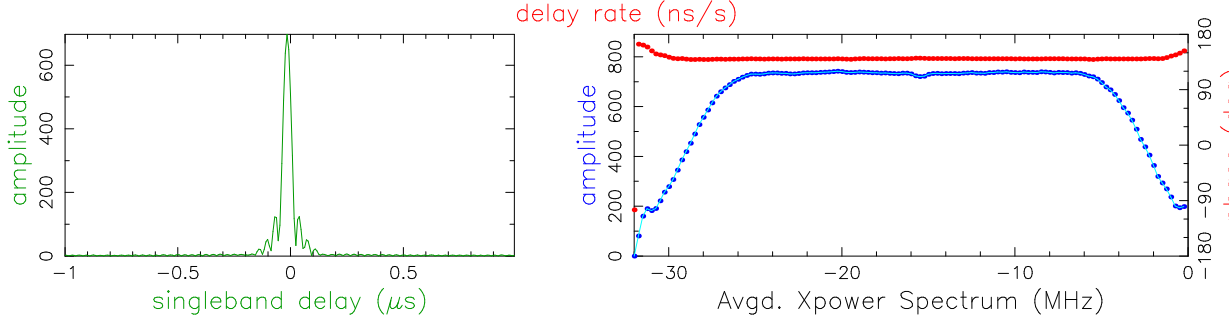
amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012

k: az 125.6 el 34.9 pa -43.7 k: az 125.6 el 34.9 pa -43.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kk.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/kk.W.122.zpvdj

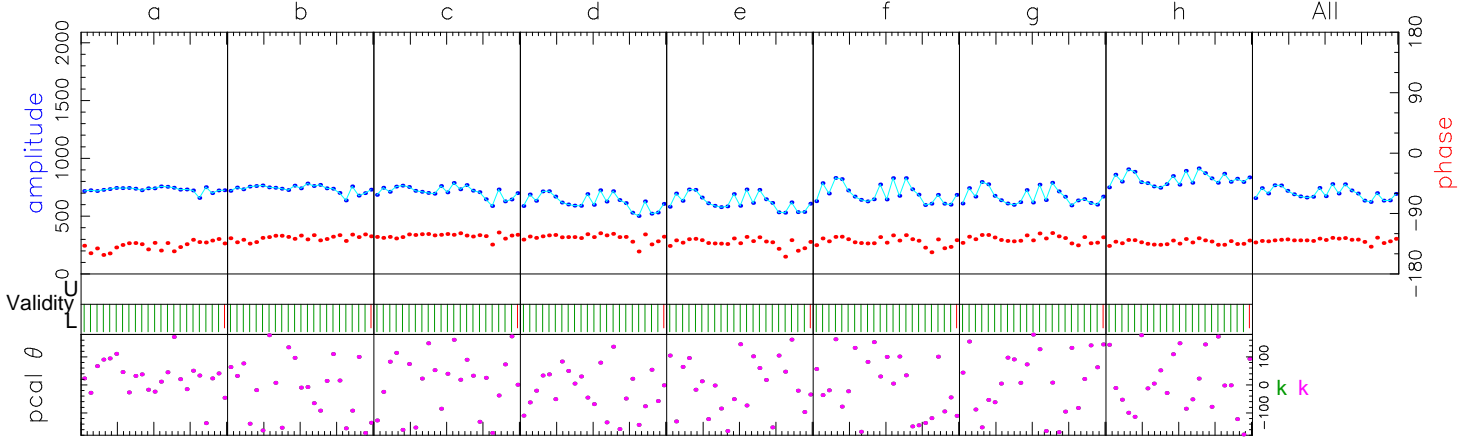


Fringe quality 9  
 SNR 20881.6  
 Int time 239.988  
 Amp 697.085  
 Phase -129.7  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.015186  
 MBD 0.000393  
 Fringe rate (Hz)  
 -0.000076  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024602  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"



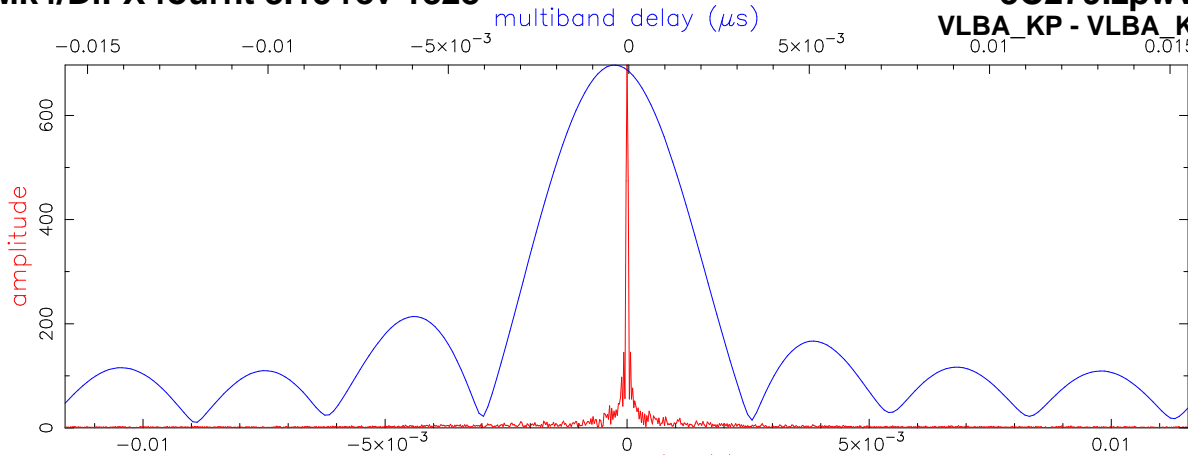
Avgd. Xpower Spectrum (MHz)  
 amplitude  
 phase (deg)

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
	-138.1	-126.3	-123.2	-125.5	-133.2	-130.9	-127.2	-132.8	Phase	-129.7
	725.6	735.1	710.4	620.8	621.0	692.8	668.4	819.6	Ampl.	699.2
	127.2	127.1	127.1	126.9	127.1	127.1	127.0	127.0	Sbd box	127.1
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
k	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)	3.93437500000E-04		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		3.93438E-04	+/- 1.0E-07
Sband delay (usec)	-1.51865000000E-02		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-1.51865E-02	+/- 8.3E-07
Phase delay (usec)	-4.18381701755E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-4.18382E-06	+/- 1.8E-10
Delay rate (us/s)	-8.80833526817E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-8.80834E-10	+/- 1.3E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-129.7	+/- 0.0

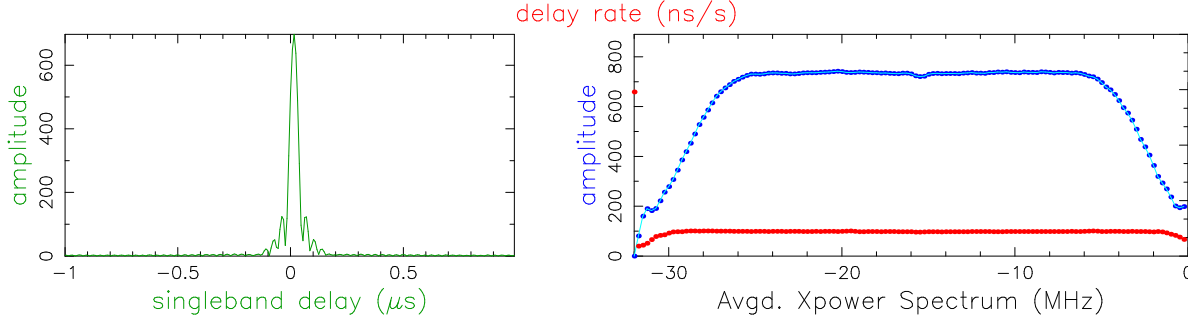
ph/seg (deg) 2.9 0.0 Theor. Amplitude 697.085 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 6.7 0.0 Search (1024X32) 684.532 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 5.3 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 8.8 0.0 Inc. seg. avg. 697.769 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. 699.218 simultaneous interpolator ion window (TEC) 0.00 0.00  
 k: az 125.6 el 34.9 pa -43.7 k: az 125.6 el 34.9 pa -43.7 u,v (fr/asec) 0.000 0.000  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kk.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/kk.W.123.zpvdj



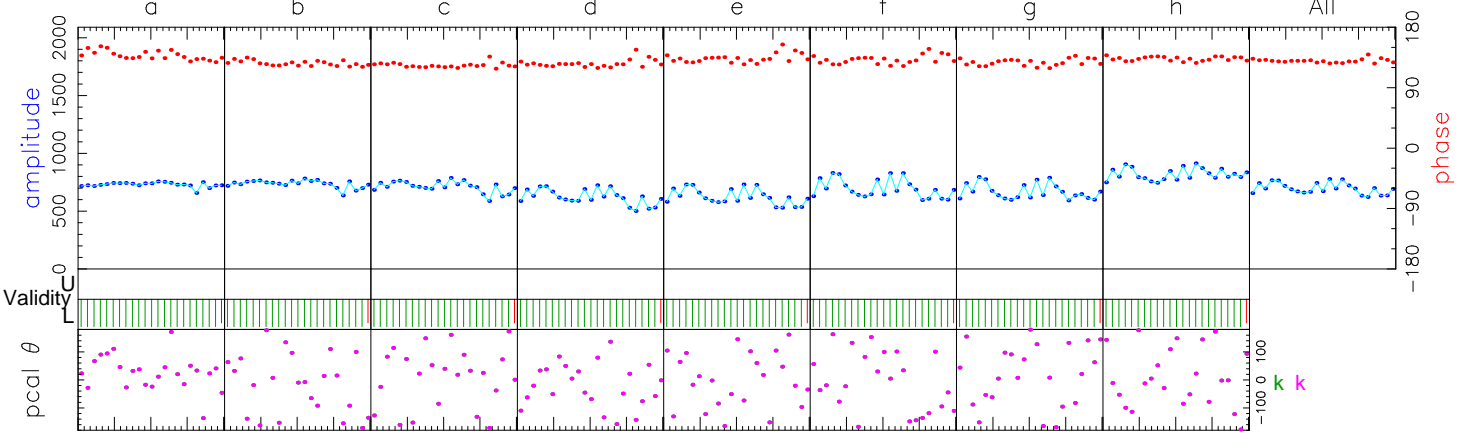
Fringe quality 9

SNR 20881.6  
 Int time 239.988  
 Amp 697.085  
 Phase 129.7  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.015186  
 MBD -0.000393  
 Fringe rate (Hz) 0.000076  
 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  
 2017:215:024603  
 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



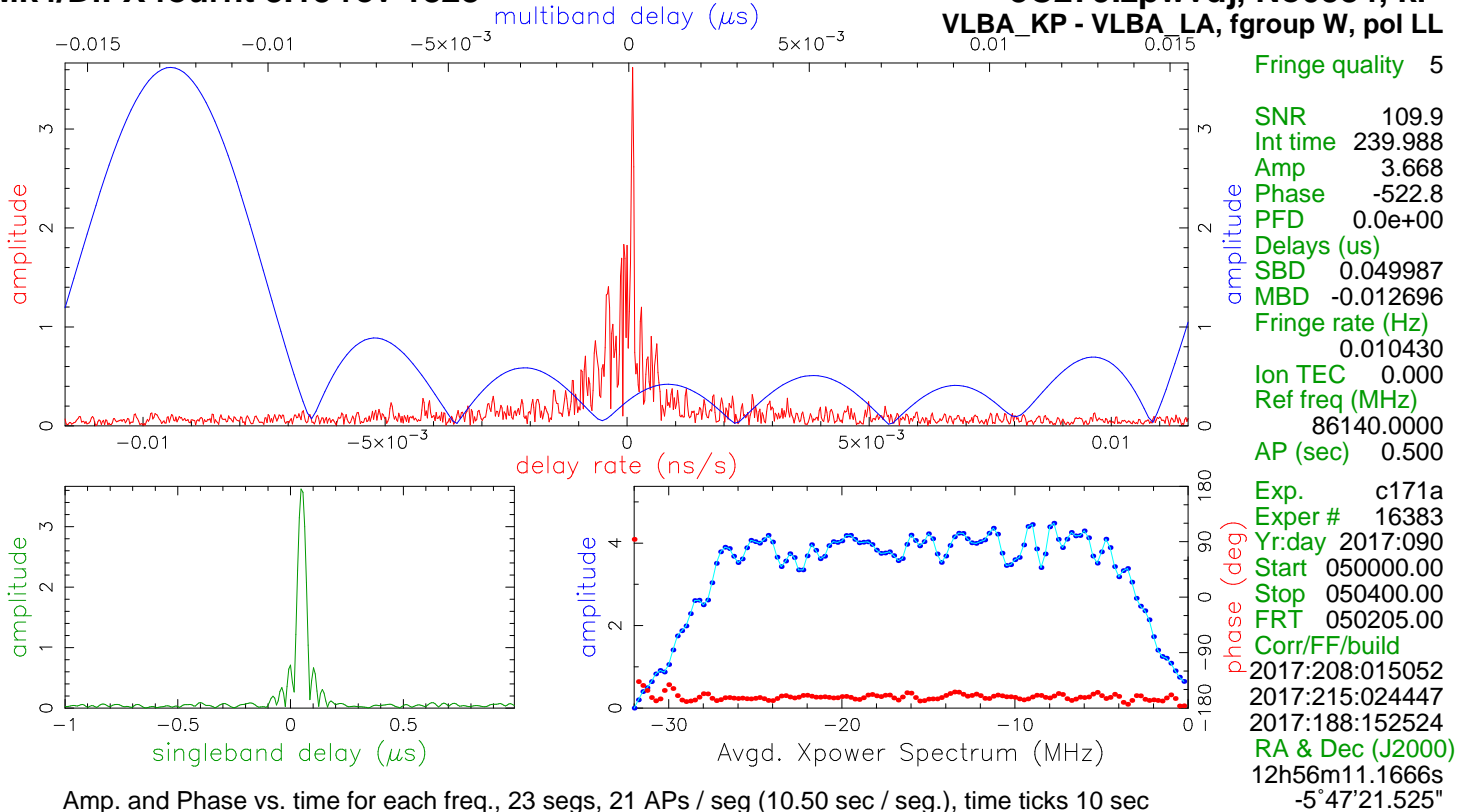
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
k:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000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

Group delay (usec)(sbd)	-3.93437500000E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-3.93438E-04	+/-	1.0E-07
Sband delay (usec)	1.51865000000E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.51865E-02	+/-	8.3E-07
Phase delay (usec)	4.18381701761E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.18382E-06	+/-	1.8E-10
Delay rate (us/s)	8.80833526817E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	8.80834E-10	+/-	1.3E-12
Total phase (deg)	129.7	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	129.7	+/-	0.0

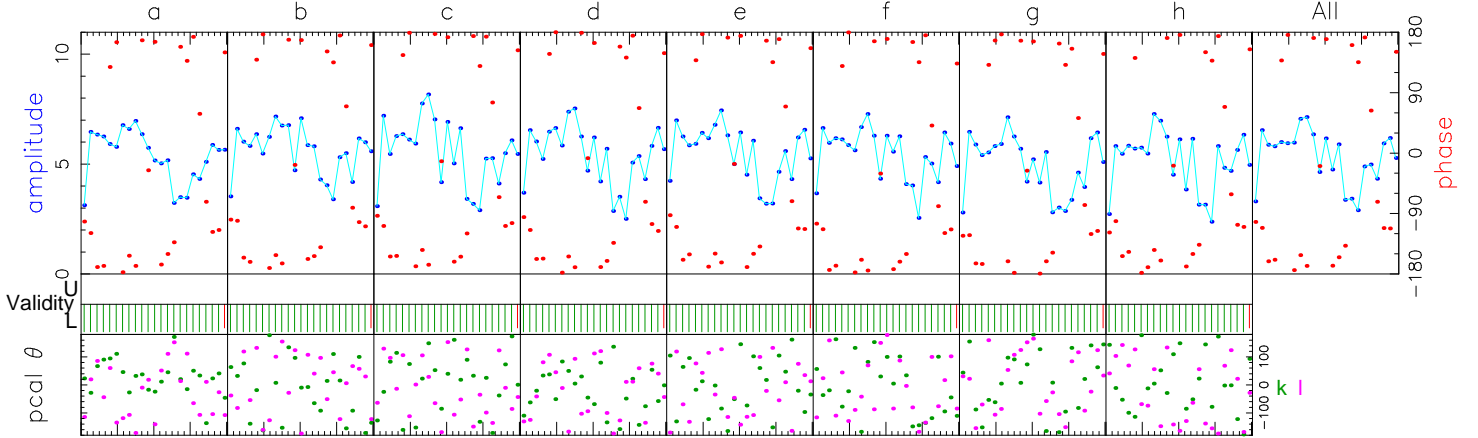
ph/seg (deg)	2.9	Theor.	0.0	Amplitude	697.085 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	6.7		0.0	Search (1024X32)	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	5.3		0.0	Inc. seg. avg.	697.769	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	8.8		0.0	Inc. frq. avg.	699.218	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016

k: az 125.6 el 34.9 pa -43.7      k: az 125.6 el 34.9 pa -43.7      u,v (fr/asec) 0.000 0.000      simultaneous interpolator

Control file: ../cf\_1234    Input file: /Exps/c171a/gmva/1234/No0584/kk.zpvdj    Output file: /Exps/c171a/gmva/1234/No0584/kk.W.124.zpvdj



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

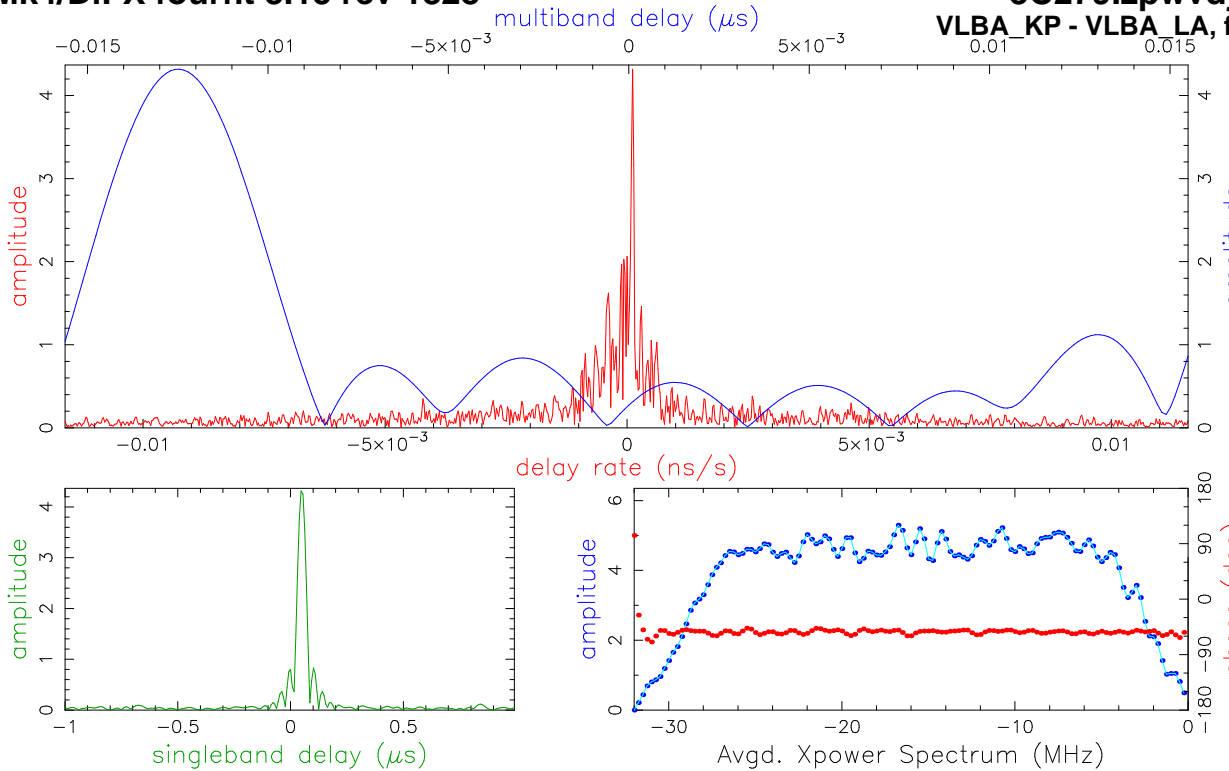


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-165.1	-162.0	-159.2	-163.5	-159.5	-166.4	-169.1	-158.2	Phase	-162.8
	3.5	3.8	3.8	3.7	3.7	3.7	3.4	3.5	Ampl.	3.6
	135.4	135.3	135.3	135.3	135.5	135.4	135.4	135.6	Sbd box	135.4
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
l	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
l	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		-3.04173405418E+02		Apriori delay (usec)		-3.04223209186E+02		Resid mbdelay (usec)		-1.26962E-02 +/- 2.0E-05
Sband delay (usec)		-3.04173222686E+02		Apriori clock (usec)		1.2080617E+00		Resid sbdelay (usec)		4.99865E-02 +/- 1.6E-04
Phase delay (usec)		-3.04223214436E+02		Apriori clockrate (us/s)		9.8593930E-08		Resid phdelay (usec)		-5.25065E-06 +/- 3.4E-08
Delay rate (us/s)		1.29265489525E-01		Apriori rate (us/s)		1.29265368445E-01		Resid rate (us/s)		1.21081E-07 +/- 2.4E-10
Total phase (deg)		-609.0		Apriori accel (us/s/s)		2.26369299418E-06		Resid phase (deg)		-522.8 +/- 1.0

	RMS	Theor.	Amplitude	3.668 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	56.2	2.5	Search (1024X32)	3.489	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	55.9	4.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	4.2	1.5	Inc. seg. avg.	5.336	Sample rate(MSamp/s): 64	mb window (us) -0.016 0.016
amp/frq (%)	3.8	2.6	Inc. frq. avg.	3.630	Data rate(Mb/s): 1024	dr window (ns/s) -0.012 0.012
					nlags: 128	t_cohere infinite
						ion window (TEC) 0.00 0.00

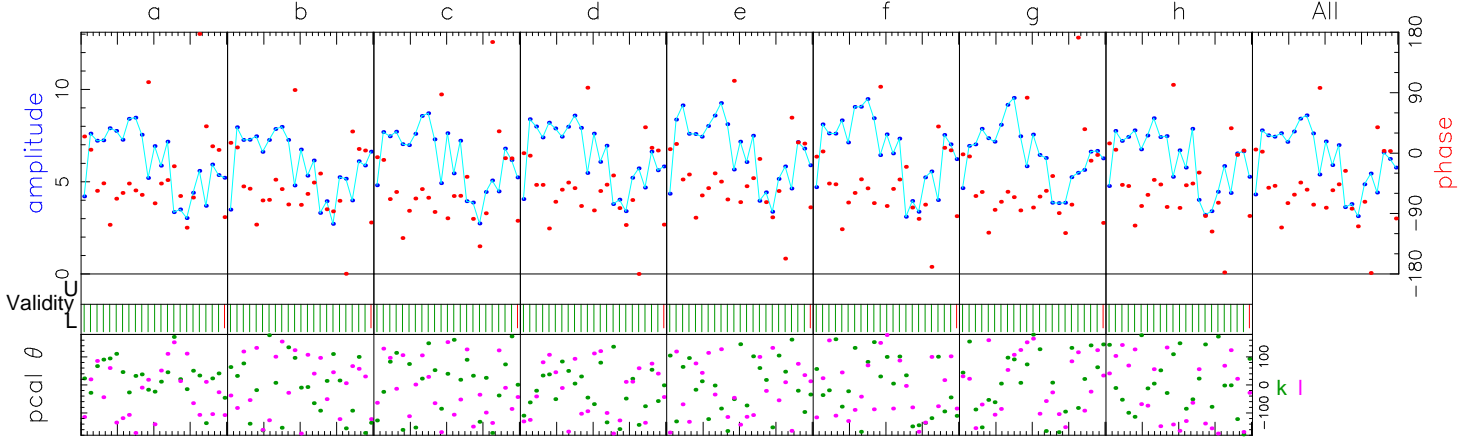
k: az 125.6 el 34.9 pa -43.7 l: az 132.7 el 35.9 pa -36.5 u,v (fr/asec) -742.791 -506.145 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kl.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/kl.W.53.zpwwdj



Fringe quality 5  
 SNR 130.8  
 Int time 239.988  
 Amp 4.368  
 Phase -412.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.049941  
 MBD -0.012481  
 Fringe rate (Hz) 0.010392  
 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  
 2017:215:024448  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

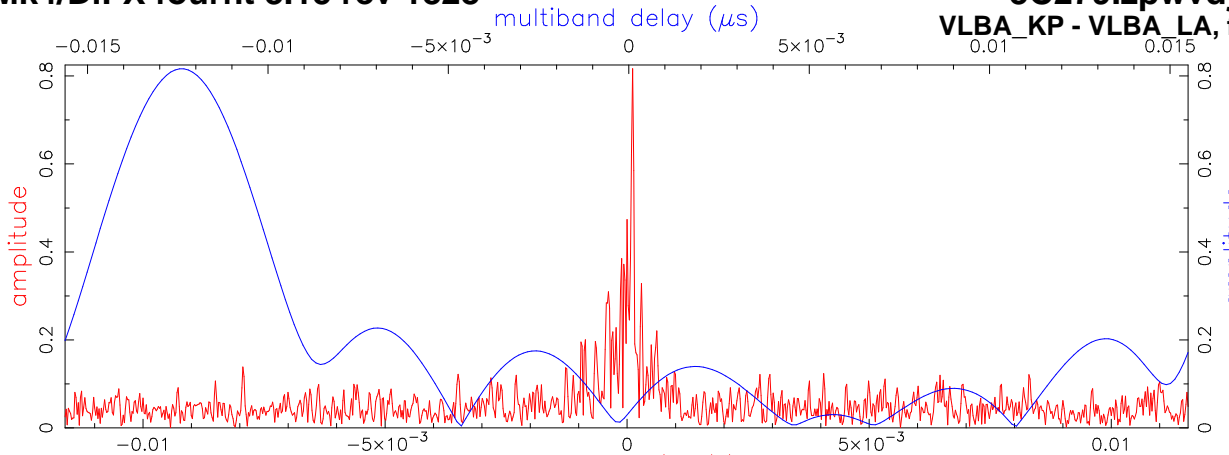
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



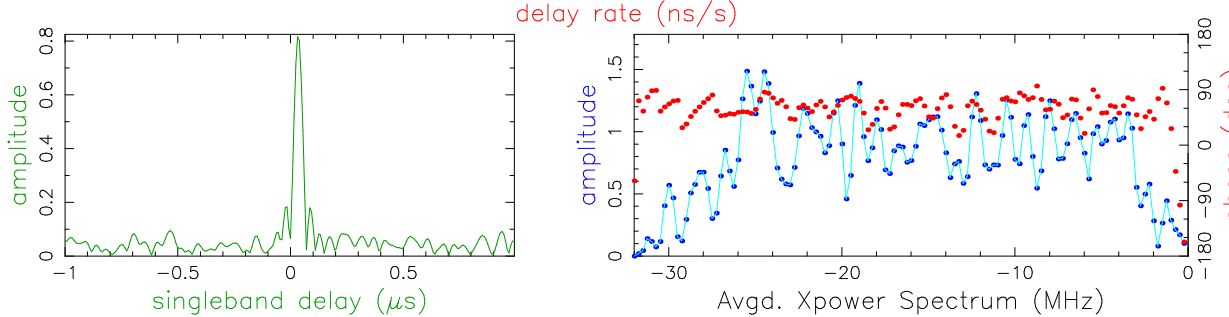
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-48.7	-52.2	-63.0	-53.1	-40.7	-50.1	-60.8	-50.7	Phase	-52.3
	4.1	4.1	4.2	4.4	4.6	4.5	4.5	4.2	Ampl.	4.3
	135.3	135.4	135.4	135.6	135.3	135.1	135.5	135.7	Sbd box	135.4
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
l	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Man'l PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
l	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.04173189918E+02		Apriori delay (usec)		-3.04223209186E+02		Resid mbdelay (usec)		-1.24807E-02	+/- 1.7E-05
Sband delay (usec)	-3.04173267686E+02		Apriori clock (usec)		1.2080617E+00		Resid sbdelay (usec)		4.99415E-02	+/- 1.3E-04
Phase delay (usec)	-3.04223210872E+02		Apriori clockrate (us/s)		9.8593930E-08		Resid phdelay (usec)		-1.68673E-06	+/- 2.8E-08
Delay rate (us/s)	1.29265489088E-01		Apriori rate (us/s)		1.29265368445E-01		Resid rate (us/s)		1.20644E-07	+/- 2.0E-10
Total phase (deg)	-498.4		Apriori accel (us/s/s)		2.26369299418E-06		Resid phase (deg)		-412.3	+/- 0.9
	RMS	Theor.	Amplitude	4.368 +/- 0.033		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		
ph/seg (deg)	55.9	2.1	Search (1024X32)	4.166		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000
amp/seg (%)	56.2	3.7	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	-0.016	0.016
ph/frq (deg)	7.6	1.2	Inc. seg. avg.	6.239		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012
amp/frq (%)	4.6	2.2	Inc. frq. avg.	4.346		Data rate(Mb/s): 1024		ion window (TEC)	0.00	0.00
							nlags: 128	t_cohere infinite		

k: az 125.6 el 34.9 pa -43.7 l: az 132.7 el 35.9 pa -36.5 u,v (fr/asec) -742.791 -506.145 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kl.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/kl.W.54.zpwwdj

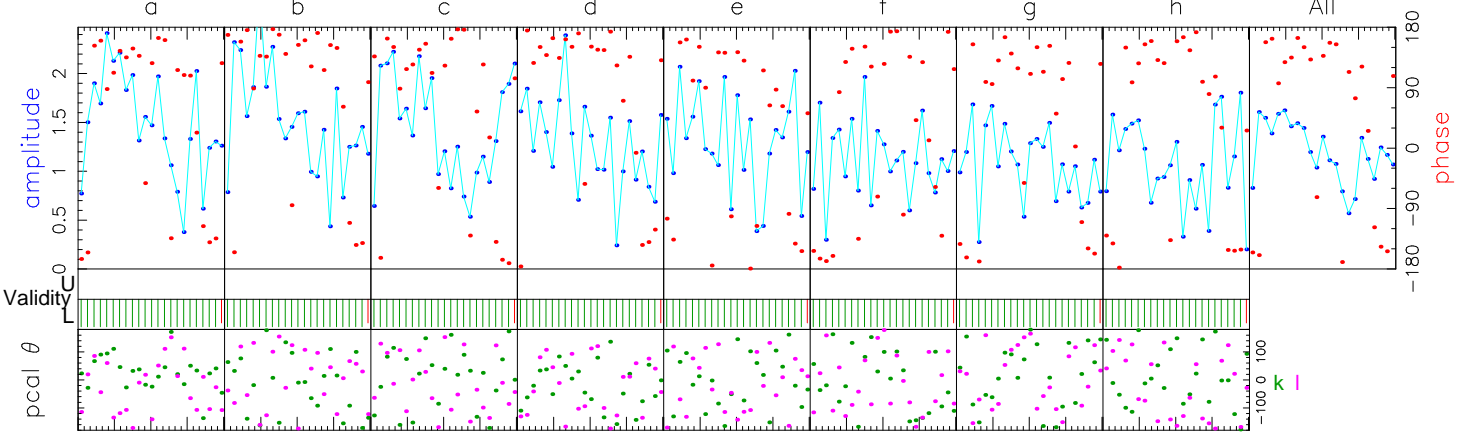




Fringe quality 7  
SNR 24.7  
Int time 239.988  
Amp 0.825  
Phase -26.8  
PFD 0.0e+00  
Delays (us)  
SBD 0.034180  
MBD -0.012376  
Fringe rate (Hz) 0.010386  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024449  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

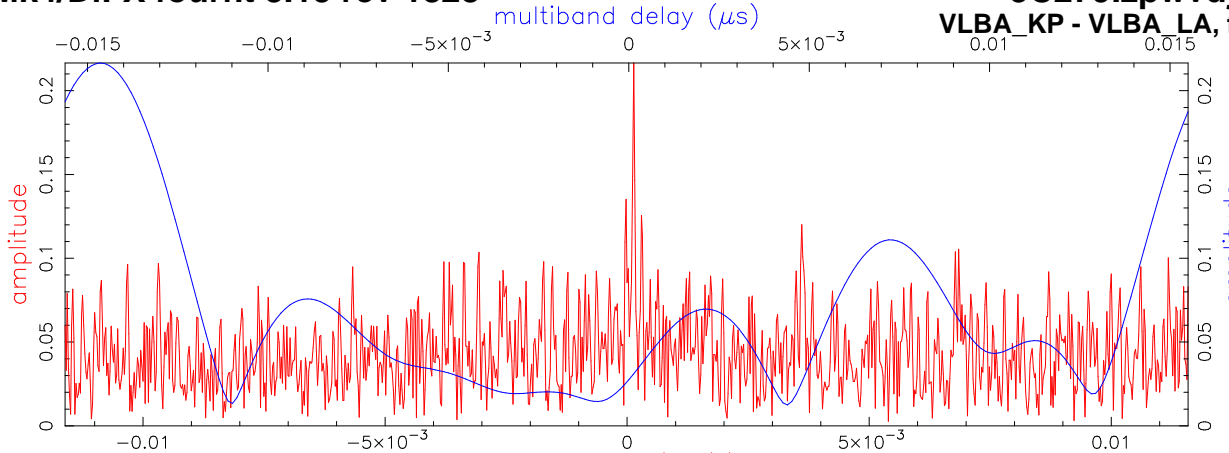


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

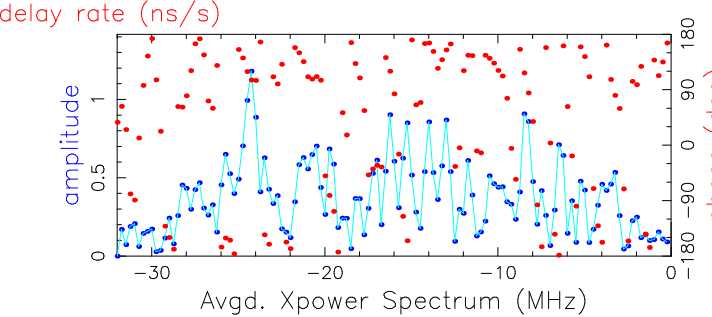
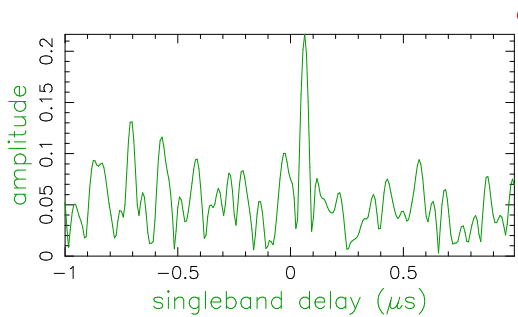


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
l	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
l	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)		-3.04204335293E+02				-3.04223209186E+02			-1.23761E-02	+/- 8.8E-05
Sband delay (usec)		-3.04189029186E+02				1.2080617E+00			3.41800E-02	+/- 7.0E-04
Phase delay (usec)		-3.04223204244E+02				9.8593930E-08			4.94167E-06	+/- 1.5E-07
Delay rate (us/s)		1.29265489022E-01				1.29265368445E-01			1.20577E-07	+/- 1.1E-09
Total phase (deg)			-112.9			2.26369299418E-06			-26.8	+/- 4.6
RMS	55.6	11.1								
ph/seg (deg)	55.6	11.1								
amp/seg (%)	58.4	19.4								
ph/frq (deg)	8.7	6.6								
amp/frq (%)	21.4	11.4								
Group delay (usec)(sbd)										
Sband delay (usec)										
Phase delay (usec)										
Delay rate (us/s)										
Total phase (deg)										
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MSamp/s): 64										
Data rate(Mb/s): 1024										
nlags: 128										
t_cohere infinite										
ion window (TEC)										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

k: az 125.6 el 34.9 pa -43.7 l: az 132.7 el 35.9 pa -36.5 u,v (fr/asec) -742.791 -506.145 simultaneous interpolator  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kl..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/kl.W.55.zpwwdj

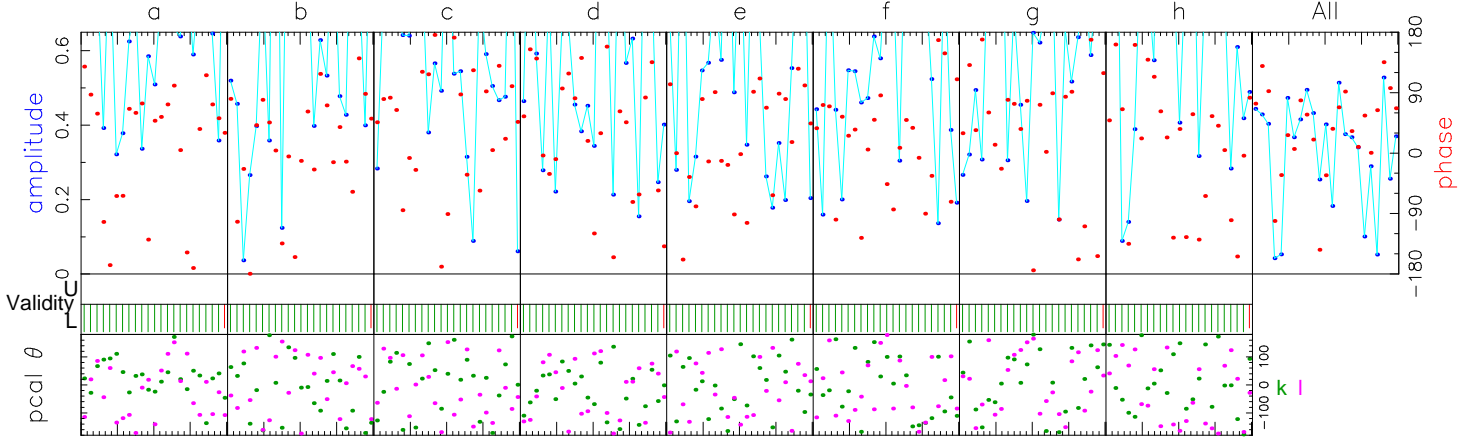


Fringe quality 0  
SNR 6.5  
Int time 239.988  
Amp 0.217  
Phase -301.8  
PFD 6.1e-03  
Delays (us)  
SBD 0.062102  
MBD -0.014646  
Fringe rate (Hz)  
0.010902  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500



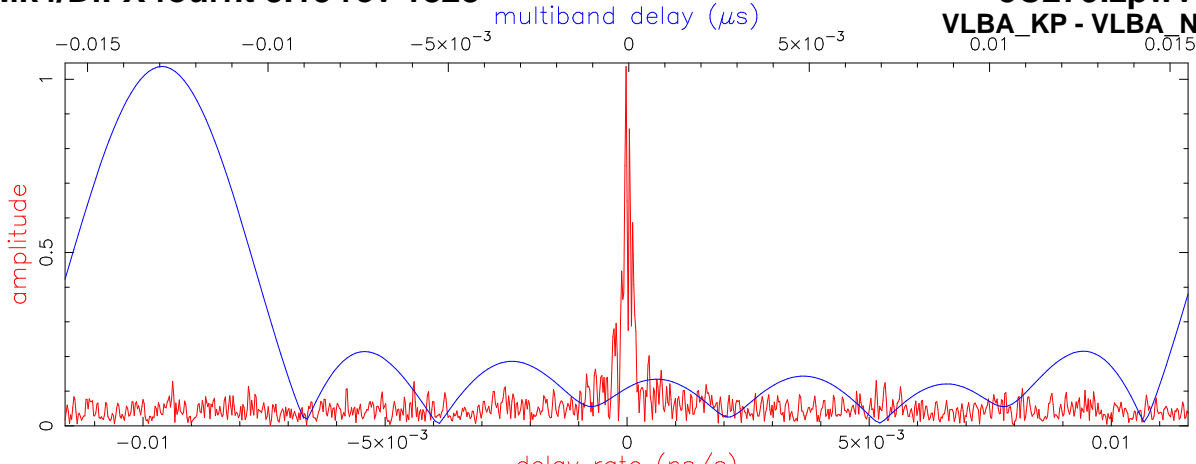
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024450  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

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

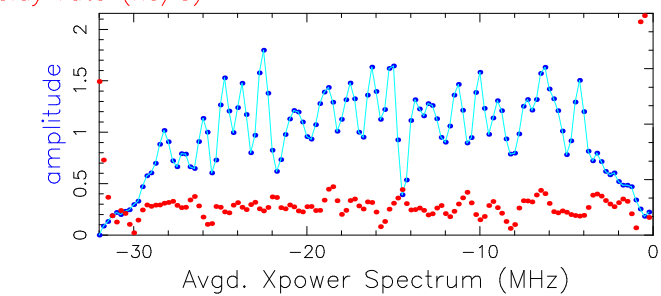
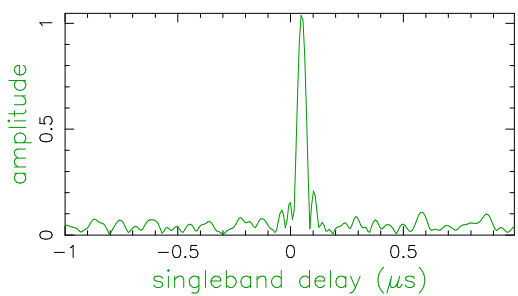


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
l	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
l	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.04175355339E+02								Resid mbdelay (usec)	-1.46462E-02 +/- 3.3E-04
Sband delay (usec)	-3.04161107186E+02								Resid sbdelay (usec)	6.21020E-02 +/- 2.7E-03
Phase delay (usec)	-3.04223207310E+02								Resid phdelay (usec)	1.87612E-06 +/- 5.7E-07
Delay rate (us/s)	1.29265495003E-01								Resid rate (us/s)	1.26559E-07 +/- 4.1E-09
Total phase (deg)		-388.0							Resid phase (deg)	-301.8 +/- 17.7
	RMS	Theor.	Amplitude	0.217 +/- 0.033					Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	64.3	42.4	Search (1024X32)	0.202					Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	86.0	73.9	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.016 0.016
ph/frq (deg)	28.4	25.0	Inc. seg. avg.	0.259					Sample rate(MSamp/s): 64	dr window (ns/s) -0.012 0.012
amp/frq (%)	24.7	43.6	Inc. frq. avg.	0.219					Data rate(Mb/s): 1024	ion window (TEC) 0.00 0.00
									nlags: 128 t_cohere infinite	

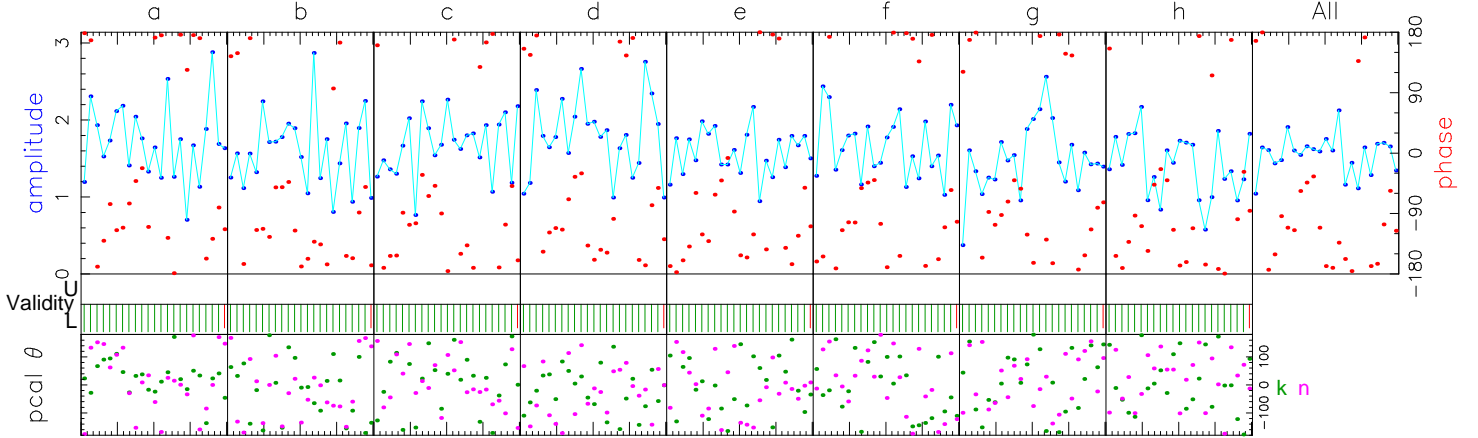
k: az 125.6 el 34.9 pa -43.7 l: az 132.7 el 35.9 pa -36.5 u,v (fr/asec) -742.791 -506.145 simultaneous interpolator  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kl.zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/kl.W.56.zpwwdj



Fringe quality 7  
SNR 31.4  
Int time 239.987  
Amp 1.047  
Phase -495.2  
PFD 0.0e+00  
Delays (us)  
SBD 0.049696  
MBD -0.012923  
Fringe rate (Hz)  
-0.002209  
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  
2017:215:024451  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

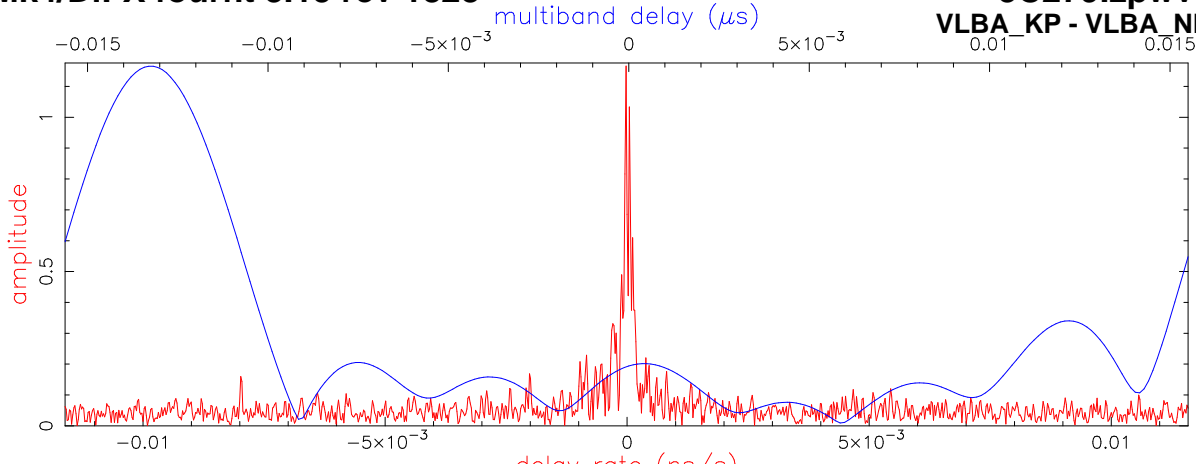


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	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	135.4	135.4
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	1.1	1.0
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	1.1	1.0
k:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	1.1	0.9
k:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	1.1	0.9
k	1000	1000	1000	1000	1000	1000	1000	1000	1.1	1.0
n	1000	1000	1000	1000	1000	1000	1000	1000	1.1	1.0
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	1.1	1.0
n	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	1.1	1.0
Group delay (usec)(sbd)		-9.68341361804E+02			-9.68390938788E+02				-1.29230E-02	+/- 6.9E-05
Sband delay (usec)		-9.68341242788E+02			-8.4381886E+00				4.96960E-02	+/- 5.5E-04
Phase delay (usec)		-9.68390943148E+02			-2.9896566E-07				-4.35946E-06	+/- 1.2E-07
Delay rate (us/s)		4.46773783058E-01			4.46773808701E-01				-2.56428E-08	+/- 8.5E-10
Total phase (deg)			-663.4		6.68538887169E-06				-495.2	+/- 3.7
Apriori delay (usec)				1.025						
Apriori clock (usec)				1.025						
Apriori clockrate (us/s)				1.035						
Apriori rate (us/s)				1.035						
Apriori accel (us/s/s)				1.035						
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
pcal mode: MANUAL, MANUAL										
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
simultaneous interpolator										

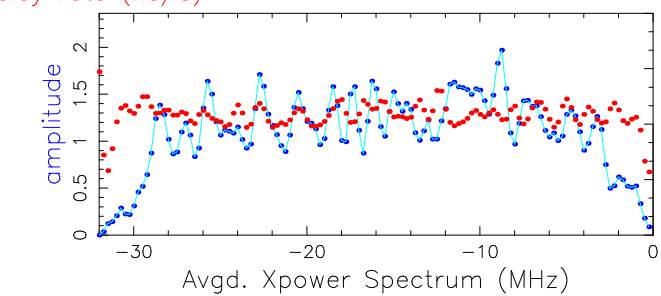
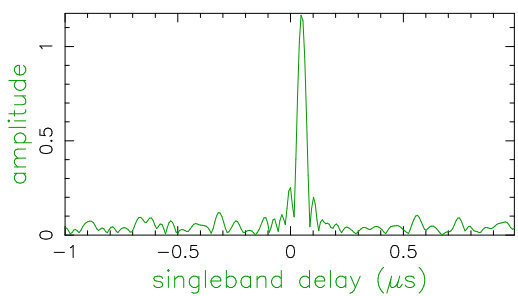
k: az 125.6 el 34.9 pa -43.7 n: az 151.6 el 38.3 pa -20.6 u,v (fr/asec) -2567.871 -1260.195  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kn..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/kn.W.57.zpwvdj



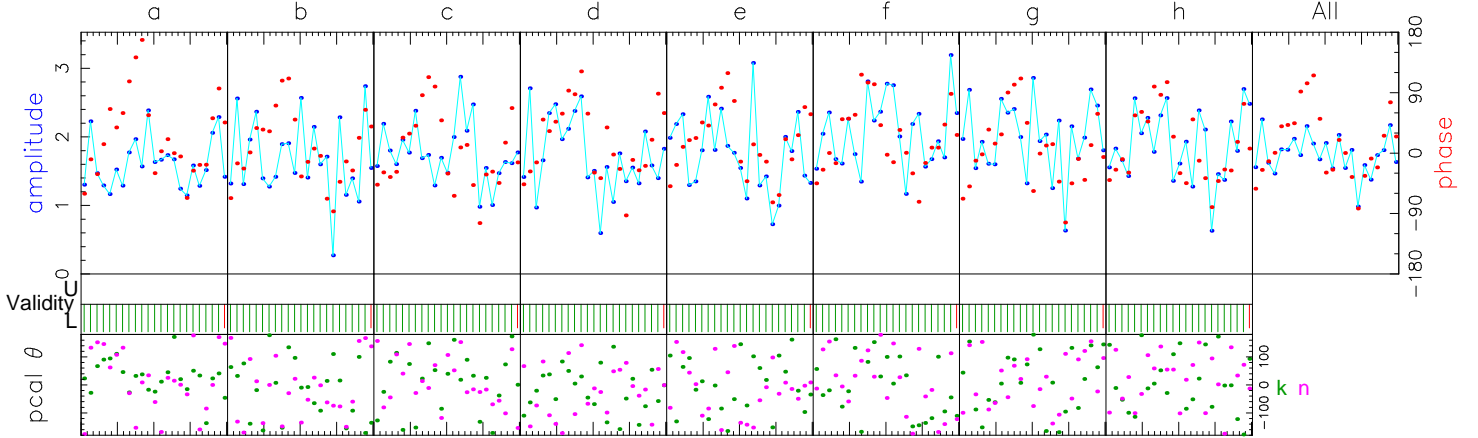
Fringe quality 7

SNR 35.2  
Int time 239.987  
Amp 1.176  
Phase -344.9  
PFD 0.0e+00  
Delays (us)  
SBD 0.049505  
MBD -0.013234  
Fringe rate (Hz)  
-0.001963  
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  
2017:215:024452  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"



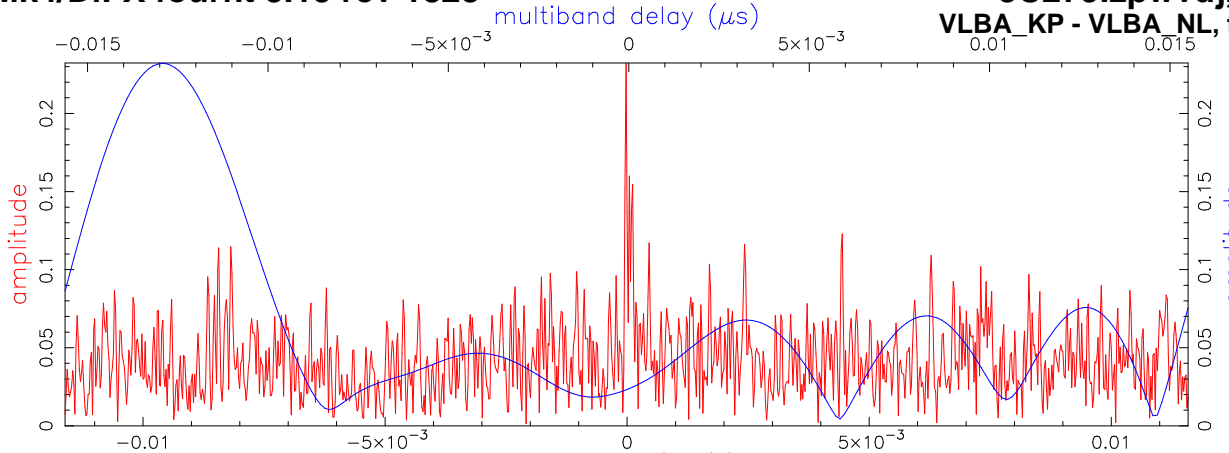
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



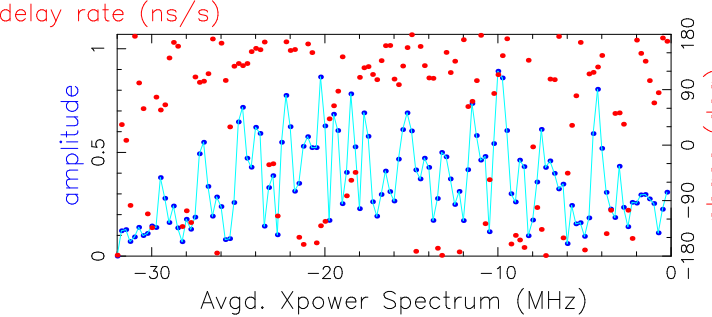
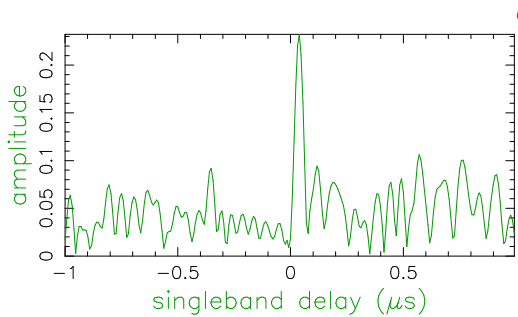
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	15.1
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Ampl.	1.2
k:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	135.3
k:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
n	1000	1000	1000	1000	1000	1000	1000	1000	Manl PC	
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	PC amp	
n	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	-9.68341672492E+02		Apriori delay (usec)	-9.68390938788E+02	Resid mbdelay (usec)	-1.32337E-02	+/-	6.2E-05		
Sband delay (usec)	-9.68341433288E+02		Apriori clock (usec)	-8.4381886E+00	Resid sbdelay (usec)	4.95055E-02	+/-	4.9E-04		
Phase delay (usec)	-9.68390938302E+02		Apriori clockrate (us/s)	-2.9896566E-07	Resid phdelay (usec)	4.86206E-07	+/-	1.0E-07		
Delay rate (us/s)	4.46773785907E-01		Apriori rate (us/s)	4.46773808701E-01	Resid rate (us/s)	-2.27943E-08	+/-	7.6E-10		
Total phase (deg)	-513.1		Apriori accel (us/s/s)	6.68538887169E-06	Resid phase (deg)	-344.9	+/-	3.3		
RMS	50.6	7.8	Search (1024X32)	1.144	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
ph/seg (deg)	53.9	13.6	Interp.	0.000	PCal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.016	0.016	
amp/seg (%)	11.0	4.6	Inc. seg. avg.	1.729	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.012	0.012	
amp/frq (%)	11.3	8.0	Inc. frq. avg.	1.178	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00	

k: az 125.6 el 34.9 pa -43.7 n: az 151.6 el 38.3 pa -20.6 u,v (fr/asec) -2567.871 -1260.195 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kn.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/kn.W.58.zpvdj

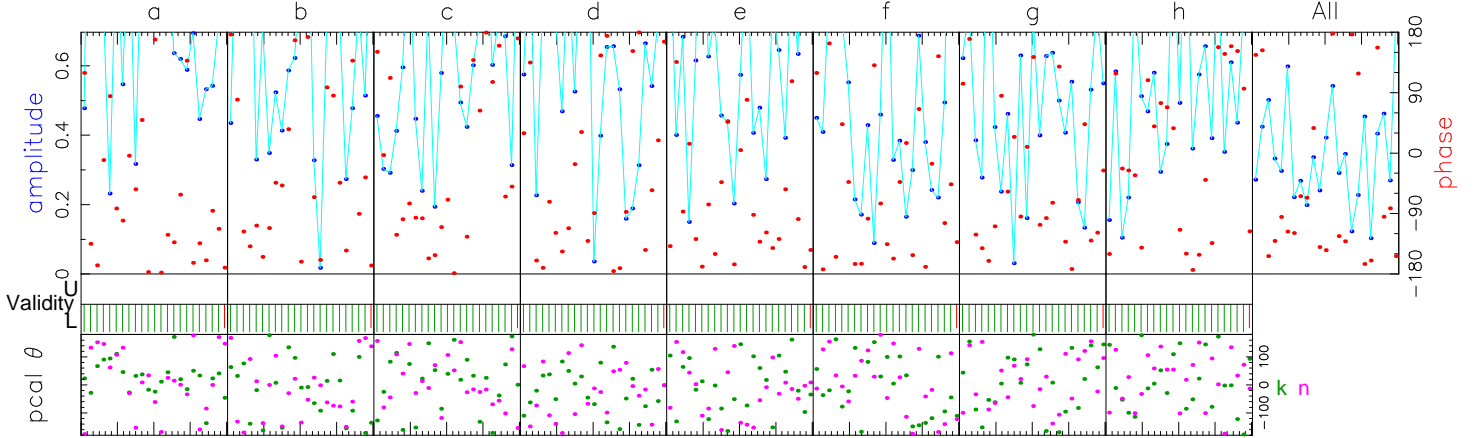


Fringe quality 0  
SNR 7.0  
Int time 239.987  
Amp 0.232  
Phase -505.0  
PFD 2.6e-04  
Delays (us)  
SBD 0.037914  
MBD -0.012896  
Fringe rate (Hz)  
-0.001588  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.500



Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050000.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024453  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

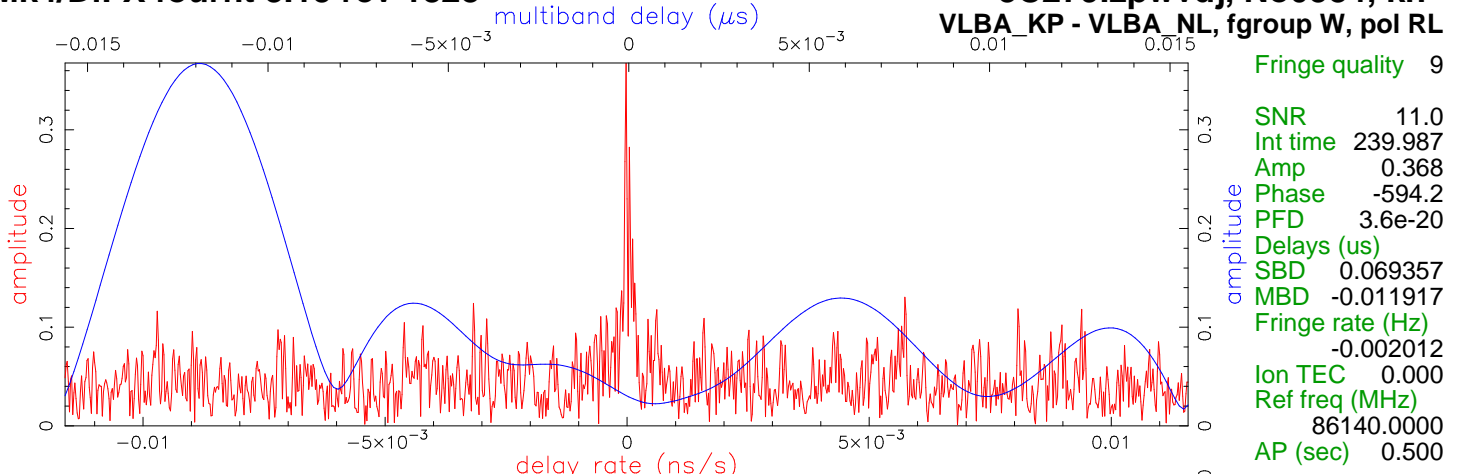
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



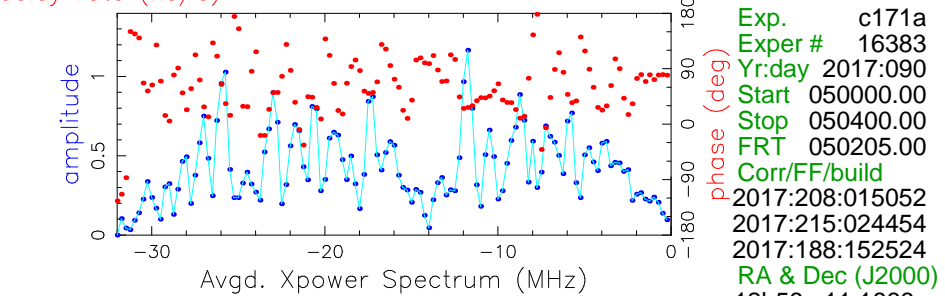
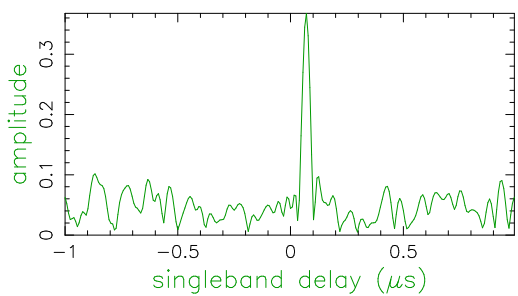
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
n	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-9.68341335242E+02								Resid mbdelay (usec)	-1.28965E-02 +/- 3.1E-04
Sband delay (usec)	-9.68353024288E+02								Resid sbdelay (usec)	3.79145E-02 +/- 2.5E-03
Phase delay (usec)	-9.68390943464E+02								Resid phdelay (usec)	-4.67522E-06 +/- 5.3E-07
Delay rate (us/s)	4.46773790266E-01								Resid rate (us/s)	-1.84351E-08 +/- 3.8E-09
Total phase (deg)		-673.2							Resid phase (deg)	-505.0 +/- 16.5
	RMS	Theor.	Amplitude	0.232 +/- 0.033					Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	59.4	39.5	Search (1024X32)	0.228					Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	79.9	68.9	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.016 0.016
ph/frq (deg)	20.0	23.3	Inc. seg. avg.	0.281					Sample rate(MSamp/s): 64	dr window (ns/s) -0.012 0.012
amp/frq (%)	32.9	40.6	Inc. frq. avg.	0.221					Data rate(Mb/s): 1024	ion window (TEC) 0.00 0.00
									nlags: 128 t_cohere infinite	

k: az 125.6 el 34.9 pa -43.7 n: az 151.6 el 38.3 pa -20.6 u,v (fr/asec) -2567.871 -1260.195 simultaneous interpolator  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kn.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/kn.W.59.zpvdj

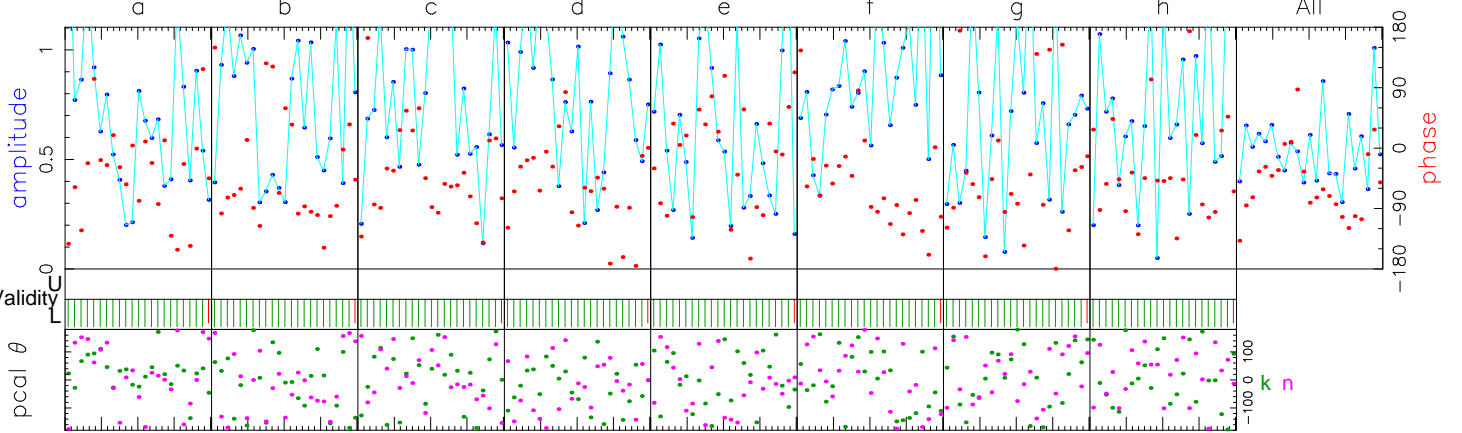




Fringe quality 9  
 SNR 11.0  
 Int time 239.987  
 Amp 0.368  
 Phase -594.2  
 PFD 3.6e-20  
 Delays (us)  
 SBD 0.069357  
 MBD -0.011917  
 Fringe rate (Hz)  
 -0.002012  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024454  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

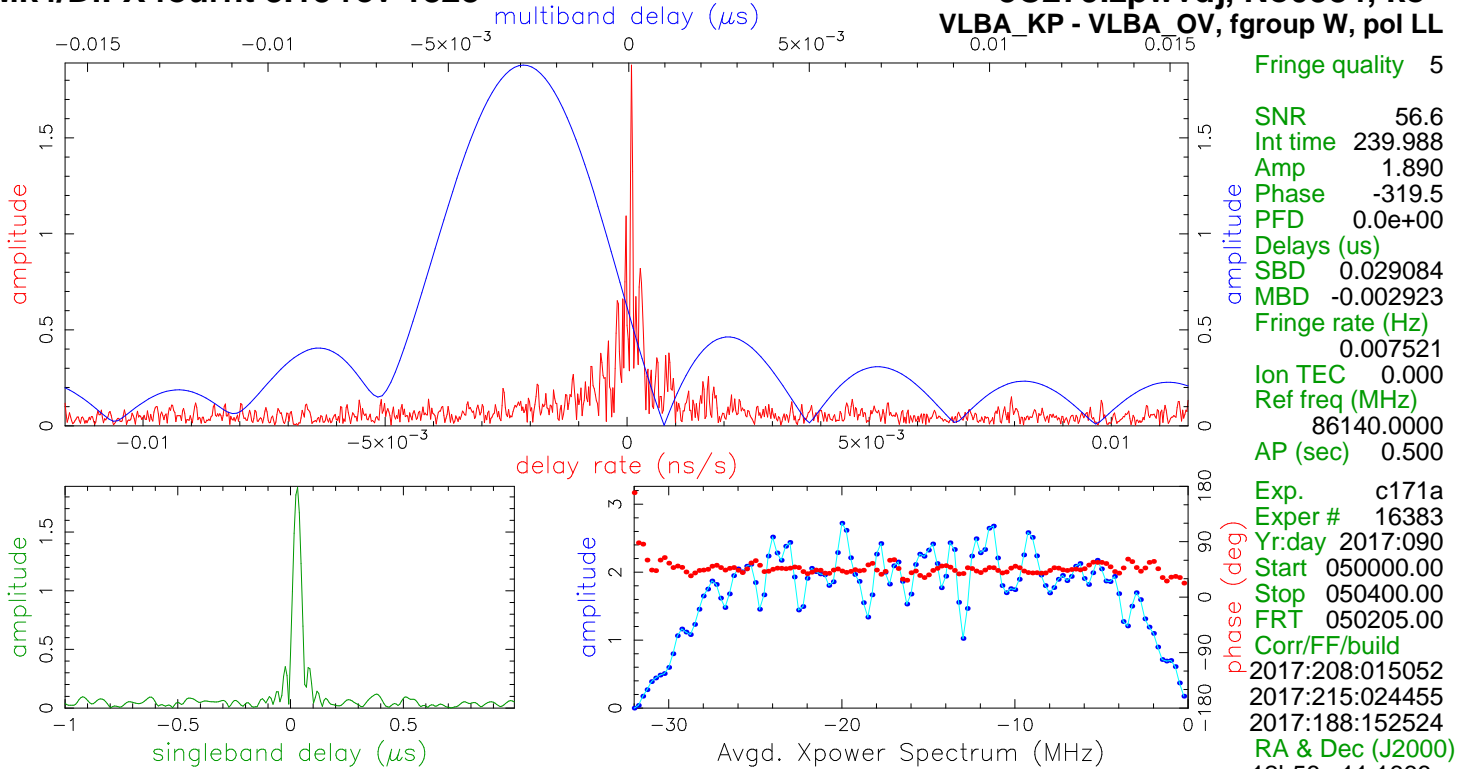


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-55.9	-67.1	-47.2	-62.2	10.4	-66.7	-71.7	-46.3	Phase	-54.2
0.3	0.4	0.5	0.4	0.3	0.5	0.4	0.4	Ampl.	0.4
138.8	137.9	137.8	138.1	137.7	137.0	137.4	138.1	Sbd box	137.9
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
k -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
n -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
kn 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n 1000	1000	1000	1000	1000	1000	1000	1000		
k W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
n W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-9.68309105929E+02		Apriori delay (usec)	-9.68390938788E+02		Resid mbdelay (usec)	-1.19171E-02	+/-	2.0E-04
Sband delay (usec)	-9.68321581788E+02		Apriori clock (usec)	-8.4381886E+00		Resid sbdelay (usec)	6.93570E-02	+/-	1.6E-03
Phase delay (usec)	-9.68390940537E+02		Apriori clockrate (us/s)	-2.9896566E-07		Resid phdelay (usec)	-1.74815E-06	+/-	3.4E-07
Delay rate (us/s)	4.46773785342E-01		Apriori rate (us/s)	4.46773808701E-01		Resid rate (us/s)	-2.33588E-08	+/-	2.4E-09
Total phase (deg)		-762.4	Apriori accel (us/s/s)	6.68538887169E-06		Resid phase (deg)	-594.2	+/-	10.4

ph/seg (deg) 51.5 24.9 Theor. Amplitude 0.368 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 65.7 43.5 Search (1024X32) 0.366 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 28.8 14.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 21.5 25.7 Inc. seg. avg. 0.503 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 k: az 125.6 el 34.9 pa -43.7 n: az 151.6 el 38.3 pa -20.6 u,v (fr/asec) -2567.871 -1260.195 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kn.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/kn.W.60.zpwvdj



Fringe quality 5

SNR 56.6

Int time 239.988

Amp 1.890

Phase -319.5

PFD 0.0e+00

Delays (us)

SBD 0.029084

MBD -0.002923

Fringe rate (Hz) 0.007521

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

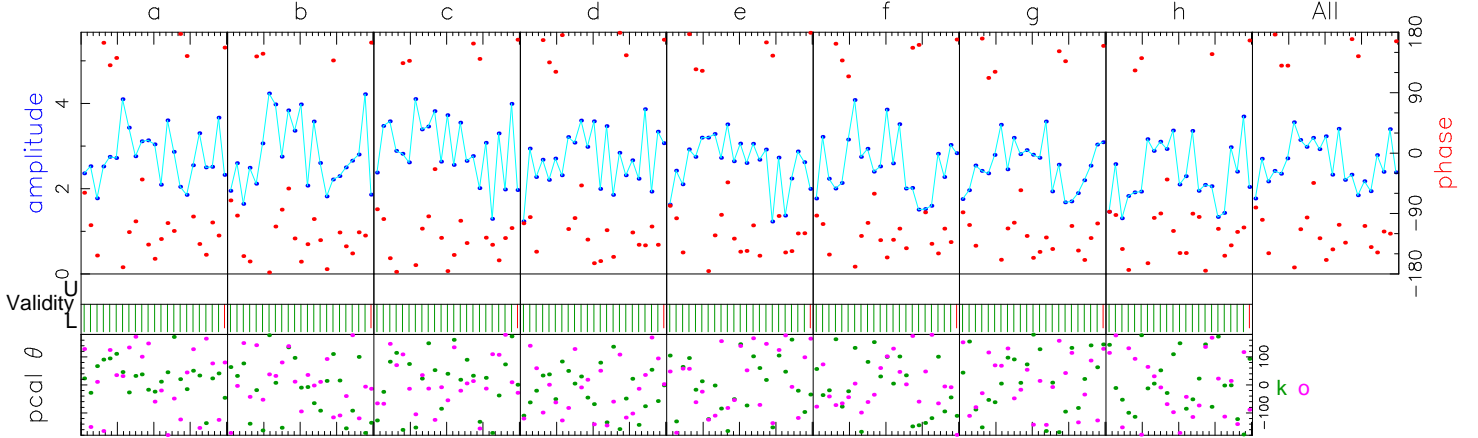
2017:208:015052

2017:215:024455

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
-137.3	-135.6	-141.6	-144.0	-140.9	-143.2	-144.3	-128.7	Phase	-139.5
1.9	2.1	2.0	1.9	1.8	1.9	1.8	1.7	Ampl.	1.9
132.9	132.7	132.6	132.8	132.8	132.5	132.8	132.8	Sbd box	132.7
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
k -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
o -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o 1000	1000	1000	1000	1000	1000	1000	1000		
k W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
o W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	2.37054764472E+03	Apriori delay (usec)	2.37051931822E+03	Resid mbdelay (usec)	-2.92350E-03	+/-	3.8E-05		
Sband delay (usec)	2.37054840272E+03	Apriori clock (usec)	-5.2434998E+00	Resid sbdelay (usec)	2.90845E-02	+/-	3.0E-04		
Phase delay (usec)	2.37051931372E+03	Apriori clockrate (us/s)	-2.6186307E-07	Resid phdelay (usec)	-4.50003E-06	+/-	6.5E-08		
Delay rate (us/s)	-4.78127634592E-02	Apriori rate (us/s)	-4.78128507720E-02	Resid rate (us/s)	8.73128E-08	+/-	4.7E-10		
Total phase (deg)	-294.0	Apriori accel (us/s/s)	-1.17578872043E-05	Resid phase (deg)	-319.5	+/-	2.0		

ph/seg (deg) 47.0 4.9 Theor. Amplitude 1.890 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

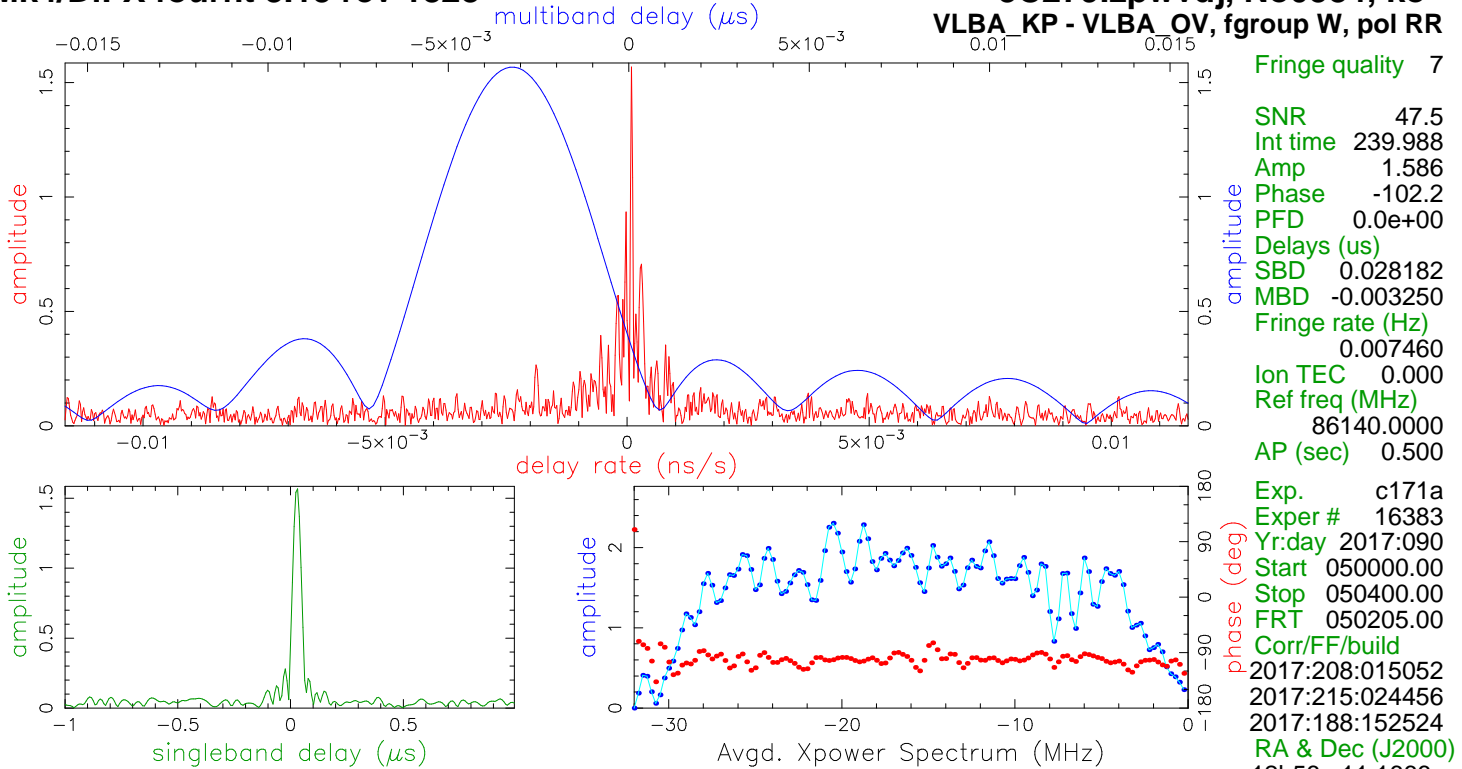
amp/seg (%) 47.5 8.5 Search (1024X32) 1.861 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 5.8 2.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

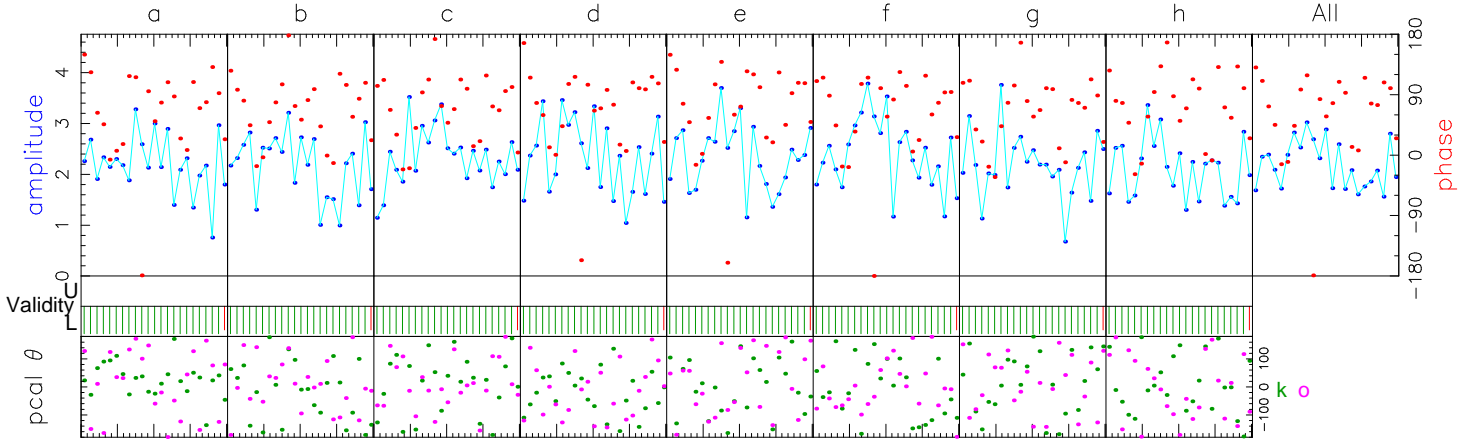
amp/frq (%) 7.0 5.0 Inc. seg. avg. 2.617 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012

k: az 125.6 el 34.9 pa -43.7 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 266.581 -571.674 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/ko.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/ko.W.61.zpvdj



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

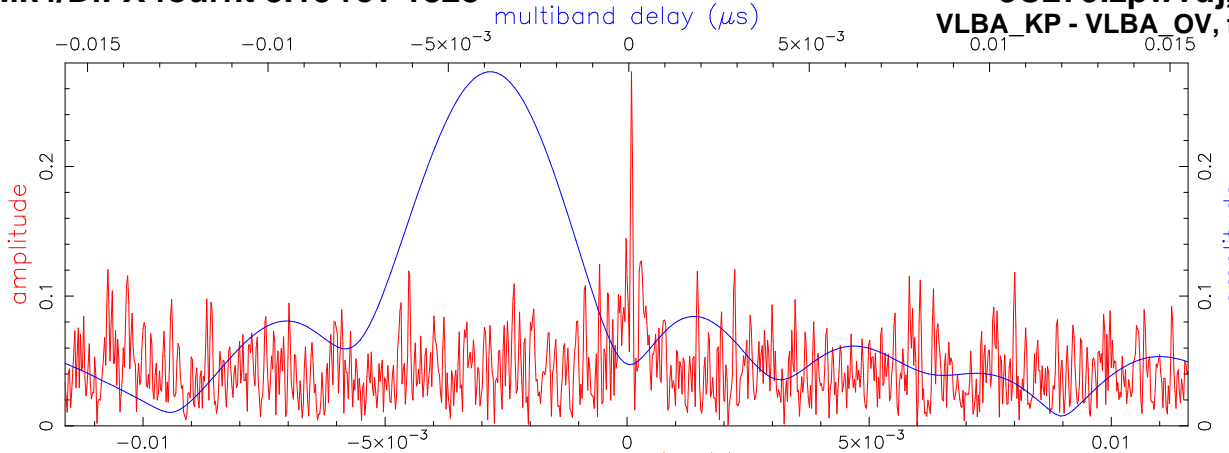


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
77.0	74.1	70.3	83.8	87.7	81.7	70.3	76.5	Phase	77.8
1.5	1.5	1.6	1.7	1.6	1.7	1.6	1.4	Ampl.	1.6
132.6	132.5	132.8	132.8	132.6	132.2	132.7	132.6	Sbd box	132.6
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
k -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
o -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
ko 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o 1000	1000	1000	1000	1000	1000	1000	1000		
k W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
o W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	2.37054731809E+03		Apriori delay (usec)	2.37051931822E+03		Resid mbdelay (usec)	-3.25012E-03	+/-	4.6E-05
Sband delay (usec)	2.37054750022E+03		Apriori clock (usec)	-5.2434998E+00		Resid sbdelay (usec)	2.81820E-02	+/-	3.6E-04
Phase delay (usec)	2.37051932072E+03		Apriori clockrate (us/s)	-2.6186307E-07		Resid phdelay (usec)	2.50917E-06	+/-	7.8E-08
Delay rate (us/s)	-4.78127641644E-02		Apriori rate (us/s)	-4.78128507720E-02		Resid rate (us/s)	8.66076E-08	+/-	5.6E-10
Total phase (deg)		-76.6	Apriori accel (us/s/s)	-1.17578872043E-05		Resid phase (deg)	-102.2	+/-	2.4

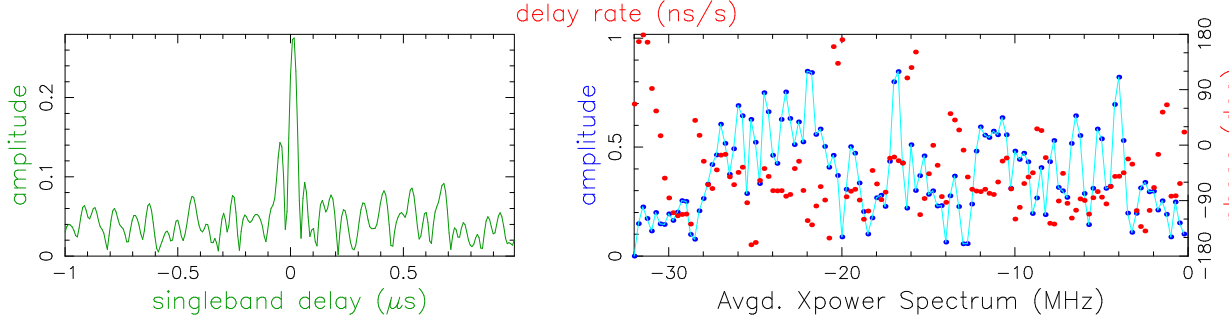
ph/seg (deg)	47.3	5.8	Search (1024X32)	1.533	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	48.1	10.1	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
ph/frq (deg)	6.8	3.4	Inc. seg. avg.	2.191	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
amp/frq (%)	5.6	6.0	Inc. frq. avg.	1.574	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
					Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			

k: az 125.6 el 34.9 pa -43.7 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 266.581 -571.674 simultaneous interpolator

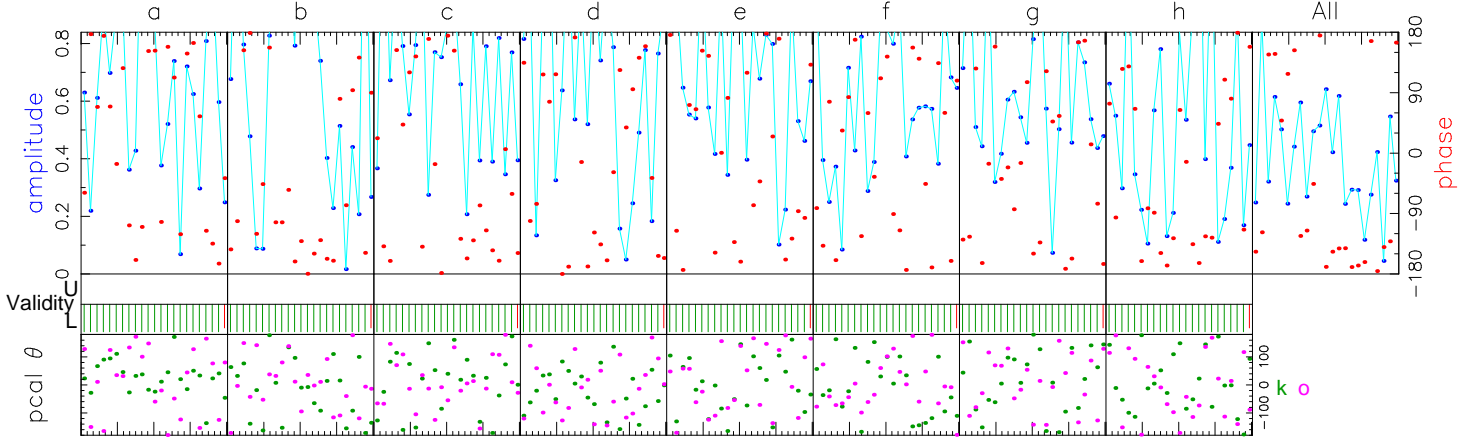
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/ko.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/ko.W.62.zpwvdj



Fringe quality 9  
SNR 8.4  
Int time 239.988  
Amp 0.280  
Phase -340.9  
PFD 4.6e-09  
Delays (us)  
SBD 0.012107  
MBD -0.003769  
Fringe rate (Hz) 0.006853  
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  
2017:215:024458  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"

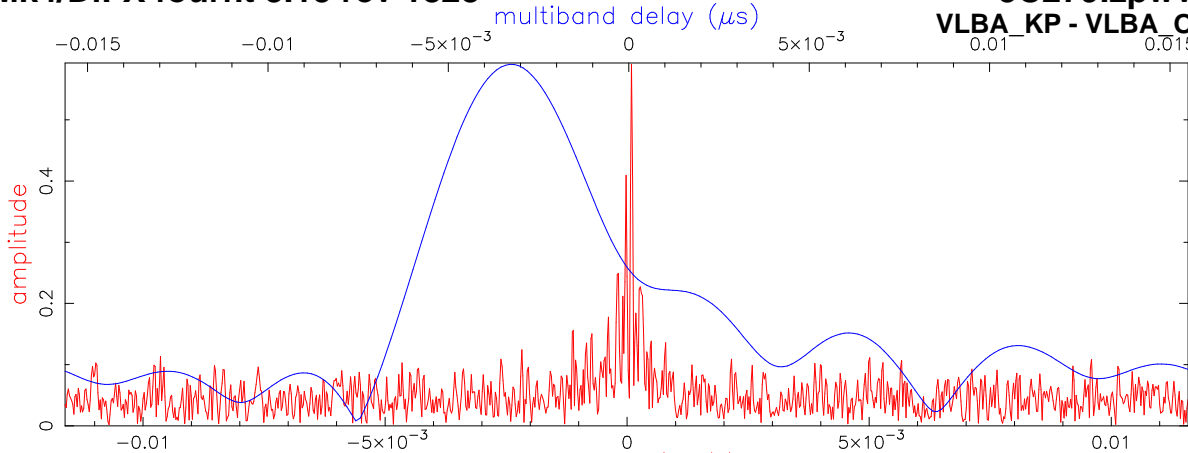


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

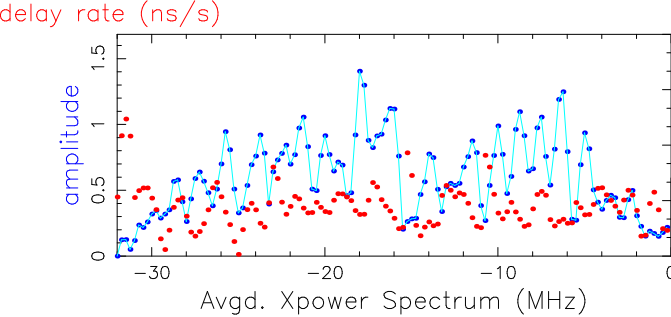
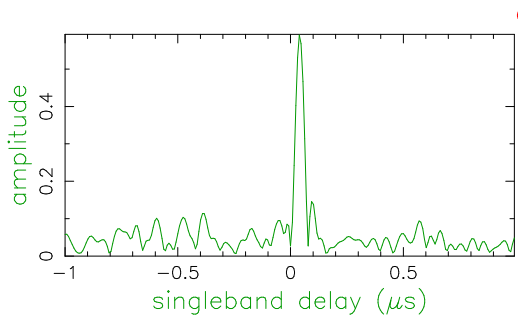


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-178.5	-141.4	-157.6	-175.1	-158.8	178.4	-143.0	-170.1	Phase	-160.9
	0.3	0.5	0.4	0.3	0.2	0.2	0.2	0.2	Ampl.	0.3
	152.6	130.7	215.2	123.7	26.9	73.1	203.0	180.1	Sbd box	130.5
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
o	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
o	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.37054679953E+03		Apriori delay (usec)		2.37051931822E+03		Resid mbdelay (usec)		-3.76869E-03	+/- 2.6E-04
Sband delay (usec)	2.37053142572E+03		Apriori clock (usec)		-5.2434998E+00		Resid sbdelay (usec)		1.21075E-02	+/- 2.1E-03
Phase delay (usec)	2.37051931303E+03		Apriori clockrate (us/s)		-2.6186307E-07		Resid phdelay (usec)		-5.18825E-06	+/- 4.4E-07
Delay rate (us/s)	-4.78127712154E-02		Apriori rate (us/s)		-4.78128507720E-02		Resid rate (us/s)		7.95565E-08	+/- 3.2E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.17578872043E-05		Resid phase (deg)		-340.9	+/- 13.7
	RMS	Theor.	Amplitude	0.280 +/- 0.033	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	51.6	32.8	Search (1024X32)	0.254	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000
amp/seg (%)	81.9	57.2	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		-0.016	0.016
ph/frq (deg)	17.0	19.3	Inc. seg. avg.	0.351	Sample rate(MSamp/s): 64		dr window (ns/s)		-0.012	0.012
amp/frq (%)	30.9	33.7	Inc. frq. avg.	0.267	Data rate(Mb/s): 1024		ion window (TEC)		0.00	0.00
					nlags: 128 t_cohere infinite					

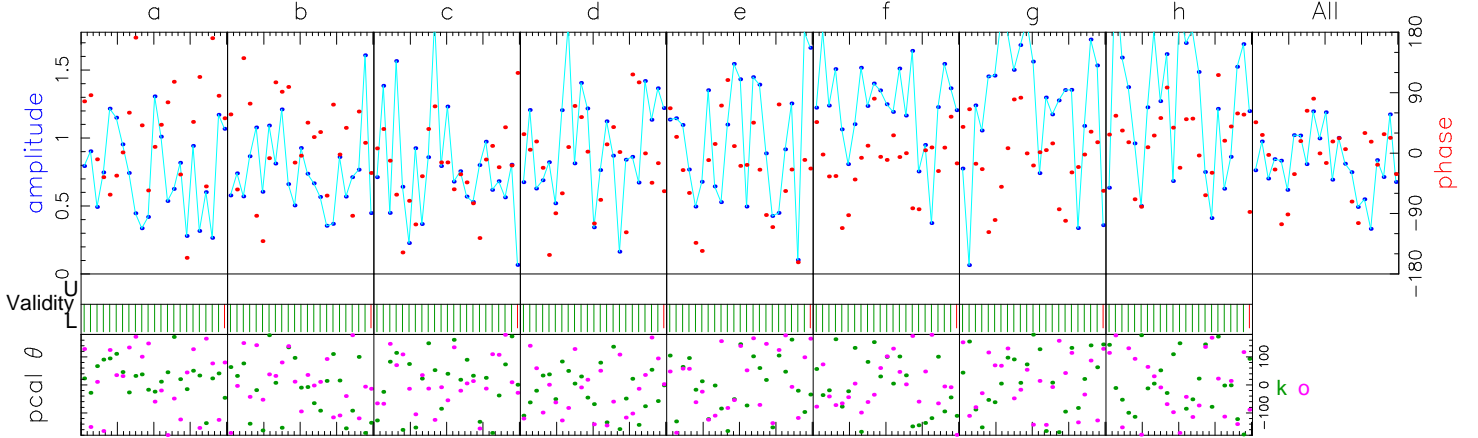
k: az 125.6 el 34.9 pa -43.7 o: az 122.6 el 27.4 pa -42.2 u,v (fr/asec) 266.581 -571.674 simultaneous interpolator  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/ko.zpvdj Output file: /Exps/c171a/gmva/1234/No0584/ko.W.63.zpvdj



Fringe quality 9  
 SNR 17.8  
 Int time 239.988  
 Amp 0.593  
 Phase -177.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.040863  
 MBD -0.003271  
 Fringe rate (Hz) 0.007471  
 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  
 2017:215:024458  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"



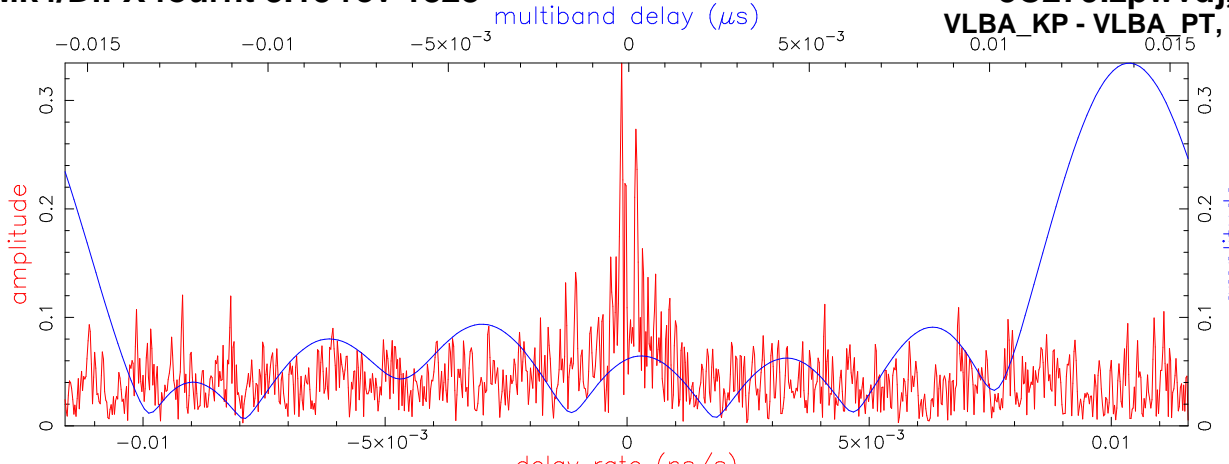
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



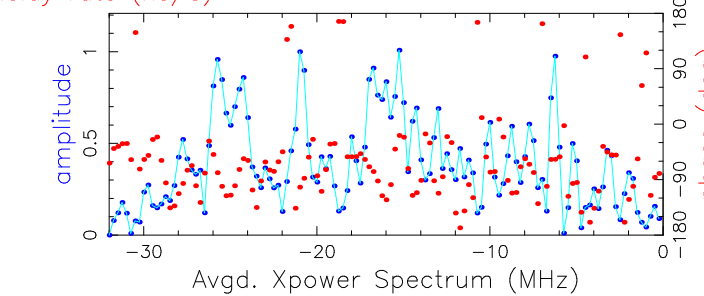
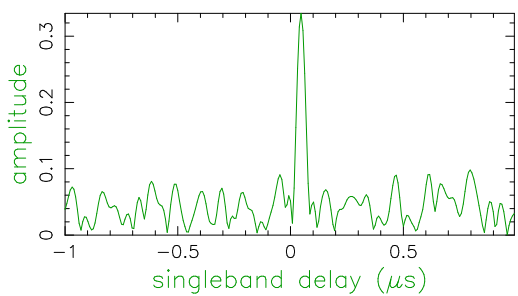
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
o	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
o	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Group delay (usec)(sbd)		2.37054729740E+03		Apriori delay (usec)	2.37051931822E+03		Resid mbdelay (usec)	-3.27081E-03		+/- 1.2E-04
Sband delay (usec)		2.37056018122E+03		Apriori clock (usec)	-5.2434998E+00		Resid sbdelay (usec)	4.08630E-02		+/- 9.7E-04
Phase delay (usec)		2.37051931830E+03		Apriori clockrate (us/s)	-2.6186307E-07		Resid phdelay (usec)	8.82544E-08		+/- 2.1E-07
Delay rate (us/s)		-4.78127640382E-02		Apriori rate (us/s)	-4.78128507720E-02		Resid rate (us/s)	8.67338E-08		+/- 1.5E-09
Total phase (deg)		-151.7		Apriori accel (us/s/s)	-1.17578872043E-05		Resid phase (deg)	-177.3		+/- 6.5
ph/seg (deg)	RMS 49.6	Theor. 15.5	Amplitude 0.593 +/- 0.033	Search (1024X32) 0.577	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
amp/seg (%)	54.1	27.0	Interp. 0.000	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016	0.016	
ph/frq (deg)	21.3	9.1	Inc. seg. avg. 0.798	0.798	Sample rate(MSamp/s): 64	Data rate(Mb/s): 1024	dr window (ns/s)	-0.012	0.012	
amp/frq (%)	34.7	15.9	Inc. frq. avg. 0.614	0.614	nlags: 128	t_cohere infinite	ion window (TEC)	0.00	0.00	

k: az 125.6 el 34.9 pa -43.7      o: az 122.6 el 27.4 pa -42.2      u,v (fr/asec) 266.581 -571.674      simultaneous interpolator  
 Control file: ../cf\_1234    Input file: /Exps/c171a/gmva/1234/No0584/ko.zpwvdj    Output file: /Exps/c171a/gmva/1234/No0584/ko.W.64.zpwvdj

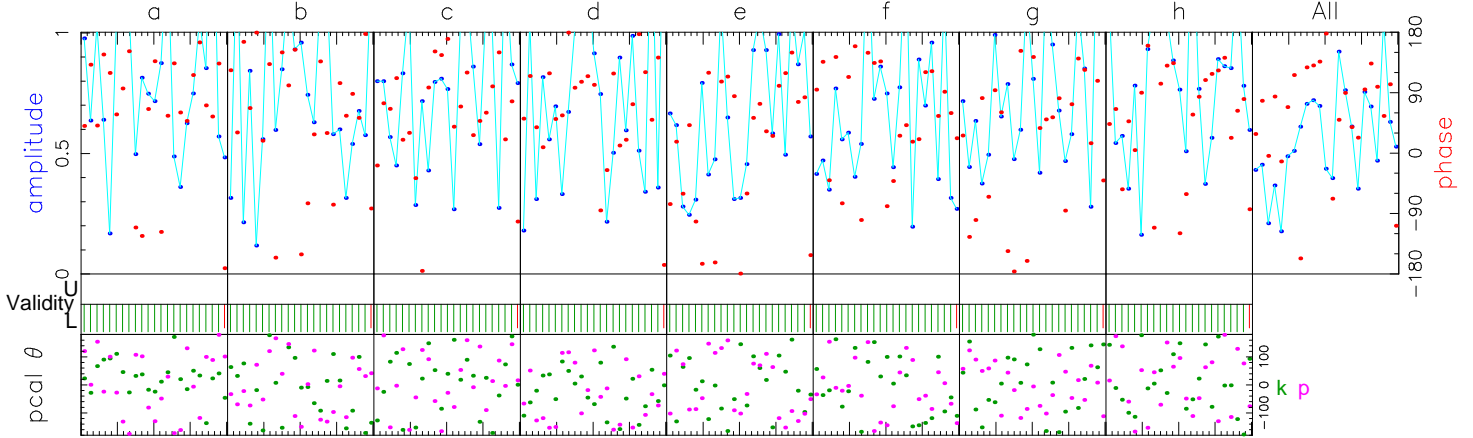




Fringe quality 9  
 SNR 10.0  
 Int time 239.988  
 Amp 0.334  
 Phase -87.9  
 PFD 1.3e-15  
 Delays (us)  
 SBD 0.046361  
 MBD 0.013860  
 Fringe rate (Hz)  
 -0.010705  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500  
 Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024500  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

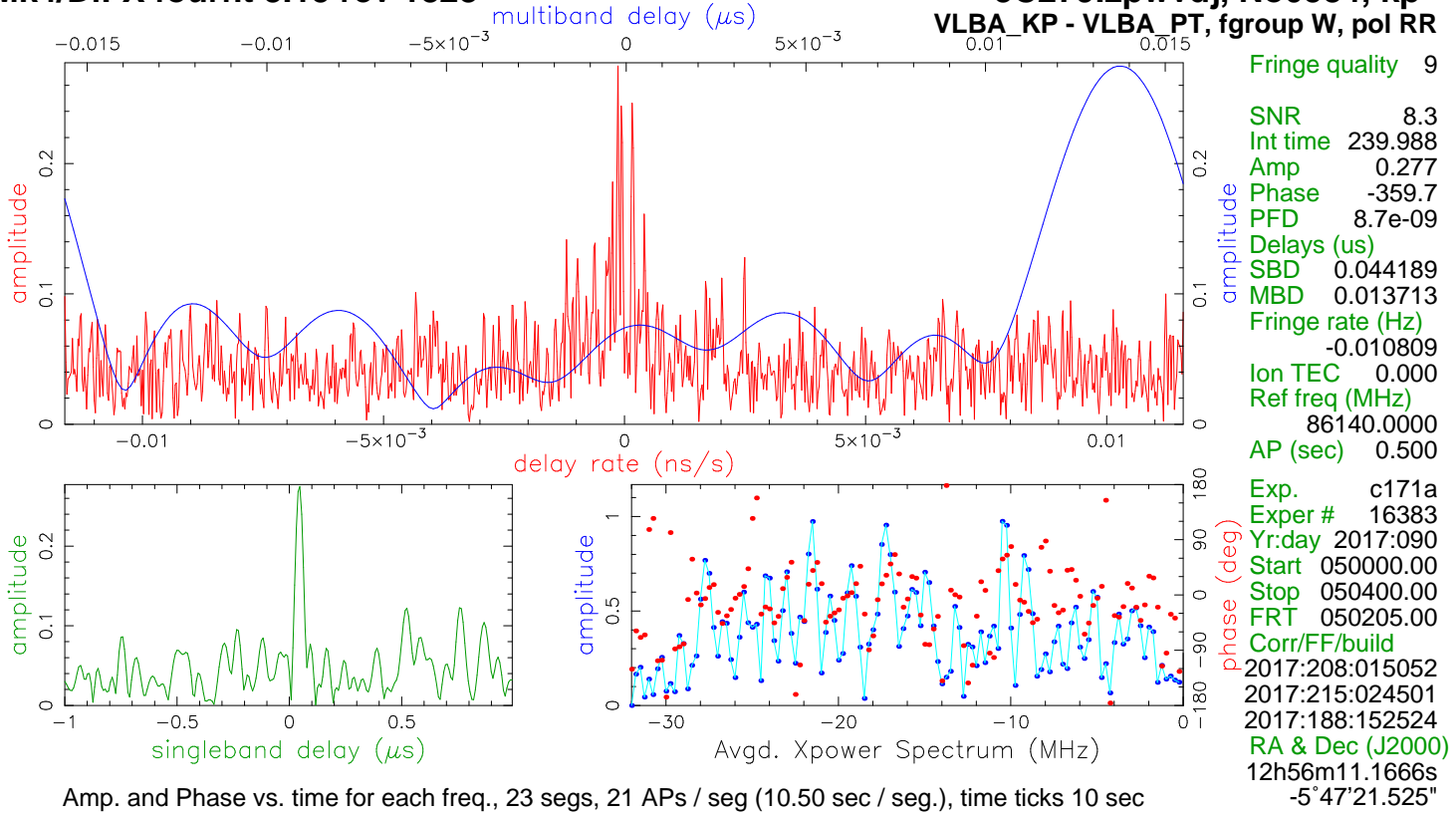


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

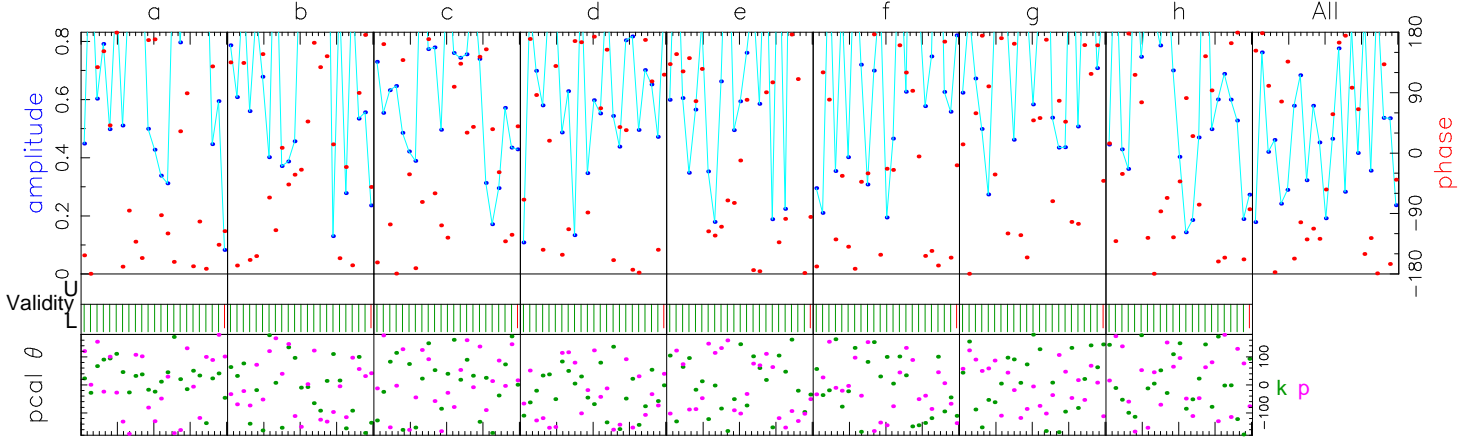


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480			
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000			
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000			
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
k	1000	1000	1000	1000	1000	1000	1000	1000			
p	1000	1000	1000	1000	1000	1000	1000	1000			
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL			
p	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL			
Group delay (usec)(sbd)		-2.62939072758E+02		Apriori delay (usec)		-2.62984182928E+02		Resid mbdelay (usec)	1.38602E-02	+/- 2.2E-04	
Sband delay (usec)		-2.62937821428E+02		Apriori clock (usec)		-5.4406080E+00		Resid sbdelay (usec)	4.63615E-02	+/- 1.7E-03	
Phase delay (usec)		-2.62984179959E+02		Apriori clockrate (us/s)		-2.6855387E-07		Resid phdelay (usec)	2.96856E-06	+/- 3.7E-07	
Delay rate (us/s)		8.25202783827E-02		Apriori rate (us/s)		8.25204026528E-02		Resid rate (us/s)	-1.24270E-07	+/- 2.7E-09	
Total phase (deg)		-274.2		Apriori accel (us/s/s)		1.76594810423E-06		Resid phase (deg)	-87.9	+/- 11.4	
RMS	69.4	27.4	Search (1024X32)	0.310	0.334 +/- 0.033			PCal mode: MANUAL, MANUAL		PC period (AP's) 5, 5	
ph/seg (deg)	69.4	27.4	Interp.	0.000				PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
amp/seg (%)	92.8	47.9	Inc. seg. avg.	0.507				Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016 0.016
ph/frq (deg)	10.7	16.2	Inc. frq. avg.	0.326				Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012 0.012
amp/frq (%)	21.5	28.2						Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite	ion window (TEC)	0.00 0.00

k: az 125.6 el 34.9 pa -43.7 p: az 130.1 el 35.7 pa -39.2 u,v (fr/asec) -473.952 -316.707 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kp.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/kp.W.65.zpwvdj



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

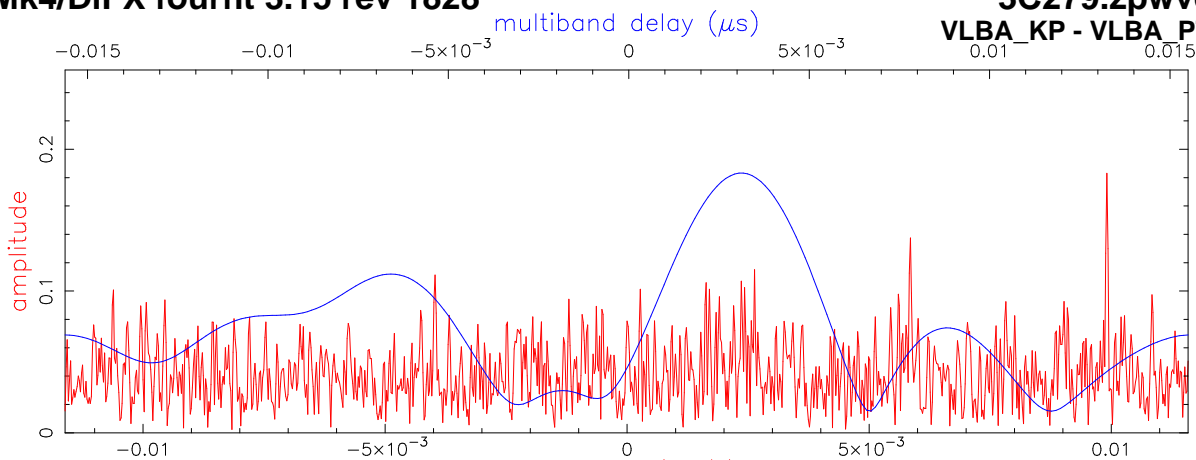


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-169.3	170.5	-156.1	153.7	171.2	-179.9	-179.3	-157.9	Phase	-179.7
	0.5	0.3	0.2	0.3	0.3	0.2	0.2	0.2	Ampl.	0.3
	135.0	225.6	99.4	170.5	133.6	208.0	98.5	127.6	Sbd box	134.7
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480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

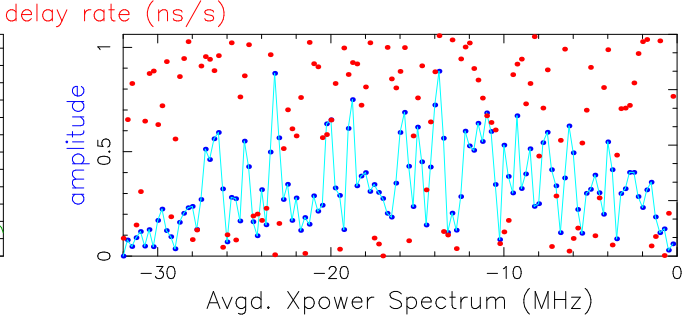
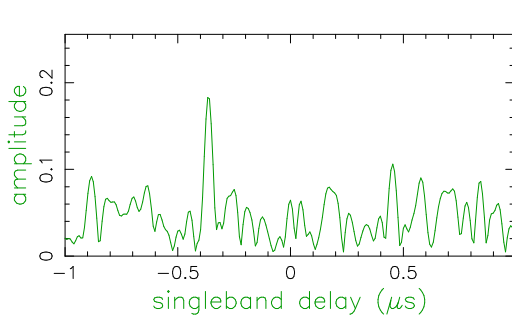
	RMS	Theor.	Amplitude	0.277 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	69.5	33.1	Search (1024X32)	0.252	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
amp/seg (%)	115.1	57.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled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

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

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

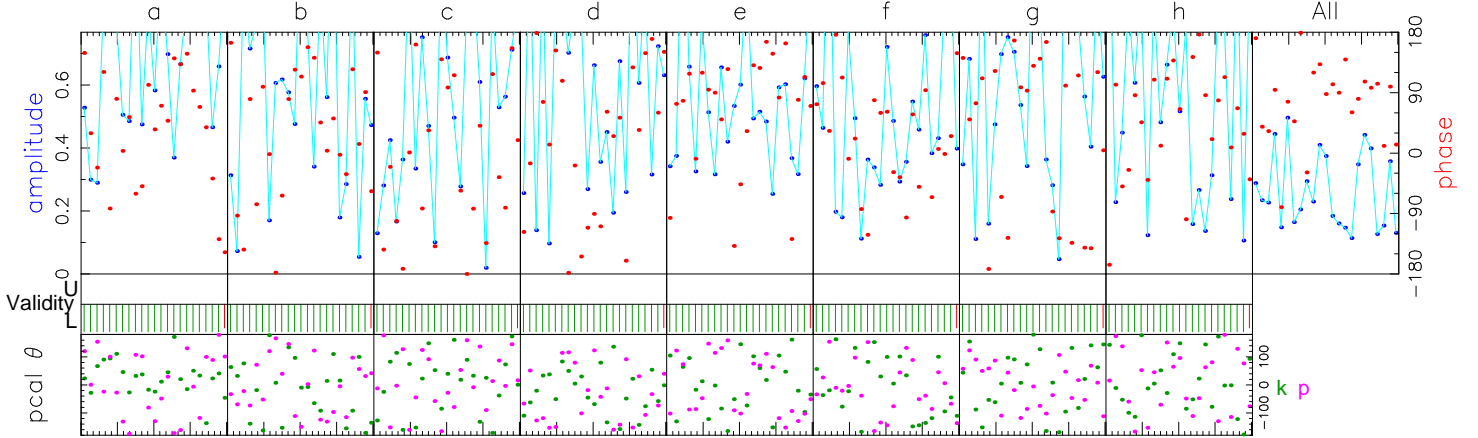


Fringe quality 0  
 SNR 5.6  
 Int time 239.988  
 Amp 0.256  
 Phase 2250.7  
 PFD 7.9e-01  
 Delays (us)  
 SBD -0.363735  
 MBD 0.003029  
 Fringe rate (Hz)  
 0.853651  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500



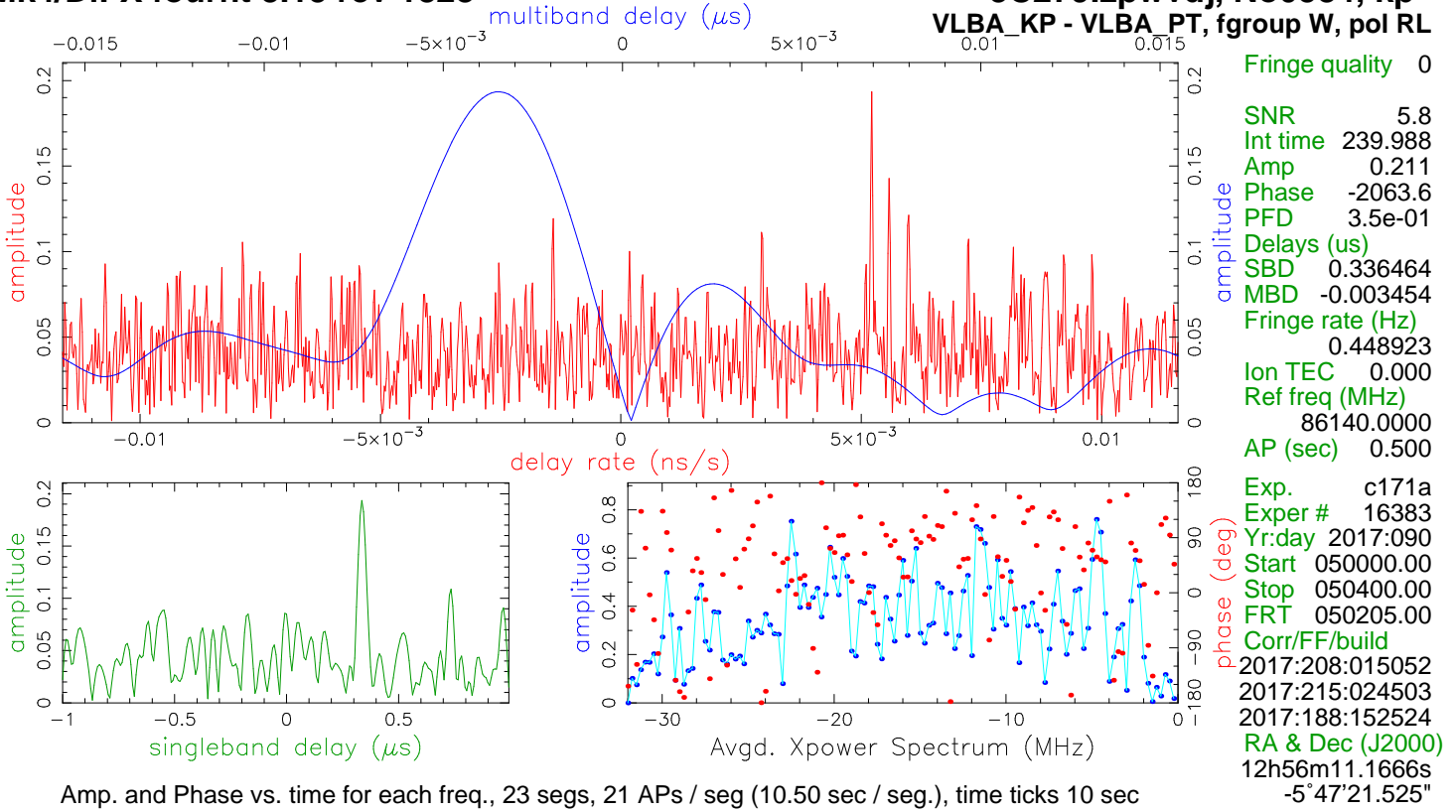
Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024502  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

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

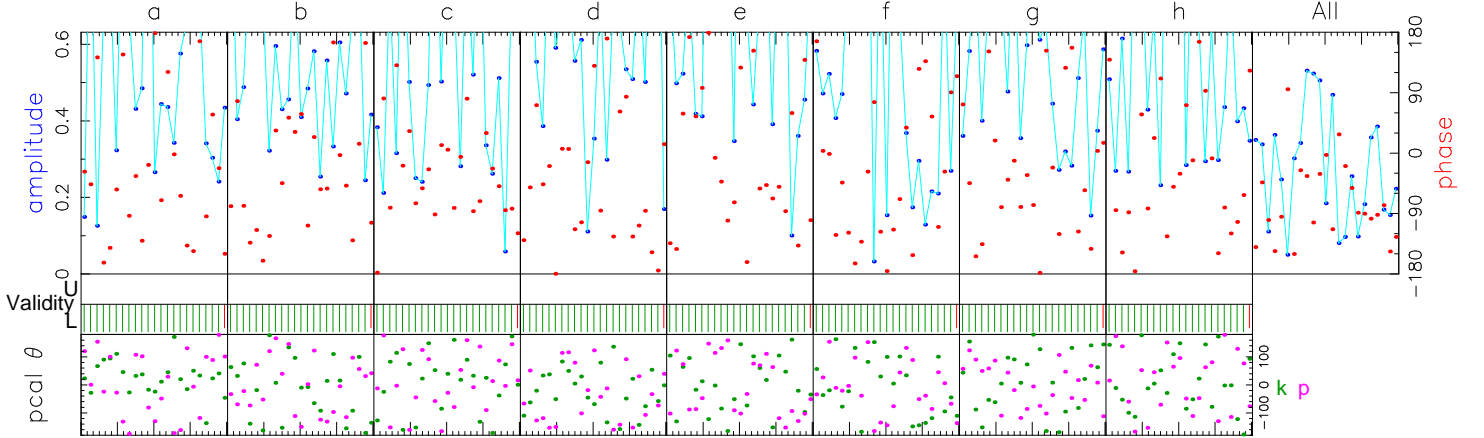


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
p	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
	Group delay (usec)(sbd)	-2.63356153659E+02	Apriori delay (usec)	-2.62984182928E+02	Resid mbdelay (usec)	3.02927E-03	+/-	3.9E-04		
	Sband delay (usec)	-2.63347918428E+02	Apriori clock (usec)	-5.4406080E+00	Resid sbdelay (usec)	-3.63735E-01	+/-	3.1E-03		
	Phase delay (usec)	-2.62984180003E+02	Apriori clockrate (us/s)	-2.6855387E-07	Resid phdelay (usec)	2.92462E-06	+/-	6.6E-07		
	Delay rate (us/s)	8.25303126916E-02	Apriori rate (us/s)	8.25204026528E-02	Resid rate (us/s)	9.91004E-06	+/-	4.8E-09		
	Total phase (deg)	2064.4	Apriori accel (us/s/s)	1.76594810423E-06	Resid phase (deg)	2250.7	+/-	20.6		
	RMS	Theor.	Amplitude	0.256 +/- 0.046	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5			
	ph/seg (deg)	60.7	49.4	Search (1024X32)	0.180	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
	amp/seg (%)	76.4	86.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016	0.016
	ph/frq (deg)	36.5	29.1	Inc. seg. avg.	0.267	Sample rate(MSamp/s): 64	ion window (ns/s)	-0.012	0.012	
	amp/frq (%)	50.8	50.8	Inc. frq. avg.	0.268	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00

k: az 125.6 el 34.9 pa -43.7      p: az 130.1 el 35.7 pa -39.2      u,v (fr/asec) -473.952 -316.707      simultaneous interpolator  
 Control file: ../cf\_1234    Input file: /Exps/c171a/gmva/1234/No0584/kp.zpvdj    Output file: /Exps/c171a/gmva/1234/No0584/kp.W.67.zpvdj



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



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

ph/seg (deg) 61.0 47.4 Search (1024X32) 0.188 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

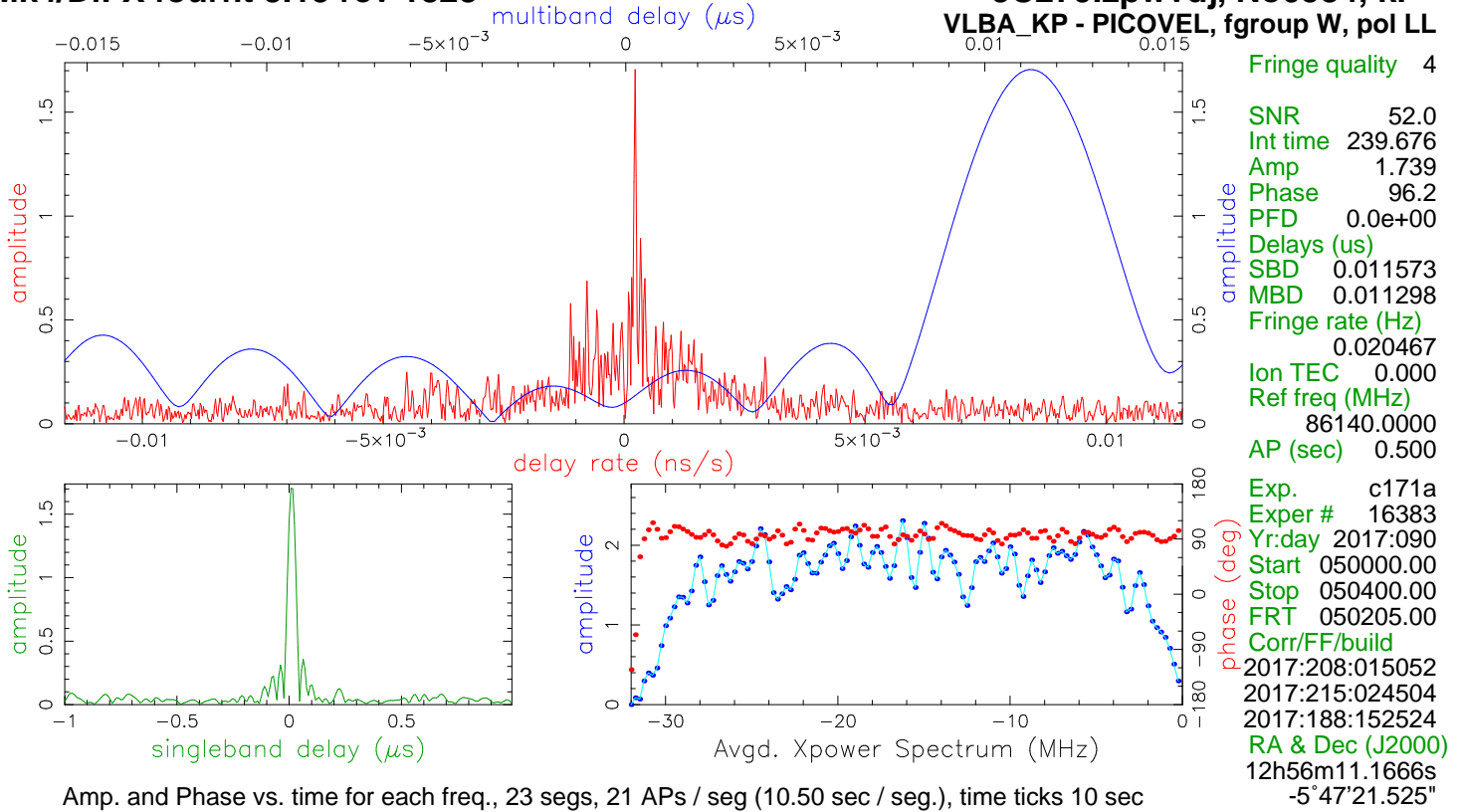
amp/seg (%) 86.2 82.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 25.2 28.0 Inc. seg. avg. 0.223 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

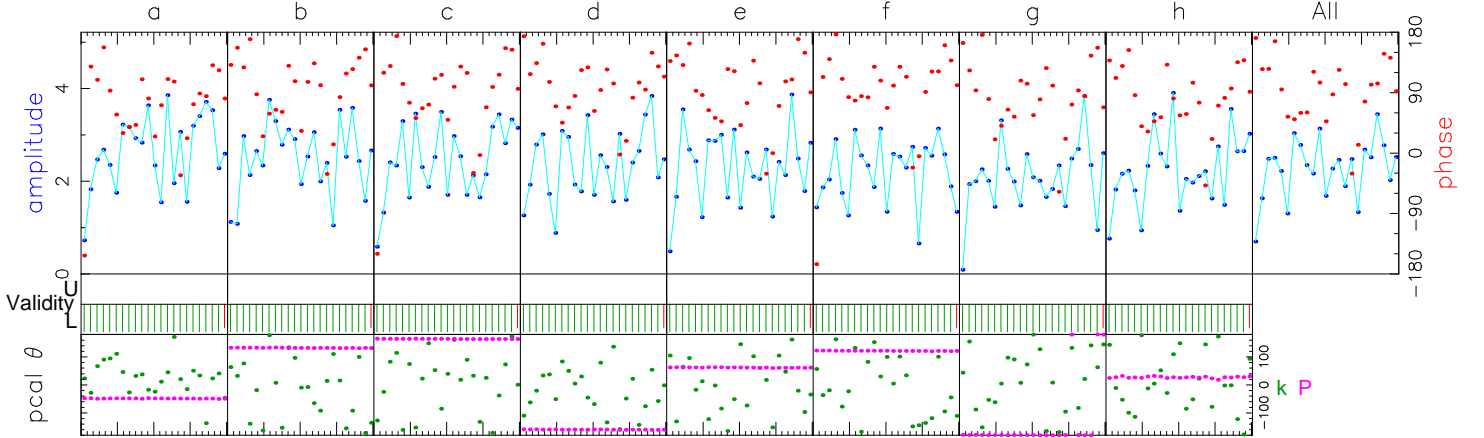
amp/frq (%) 23.7 48.8 Inc. frq. avg. 0.204 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012

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

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kp.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/kp.W.68.zpwvdj



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



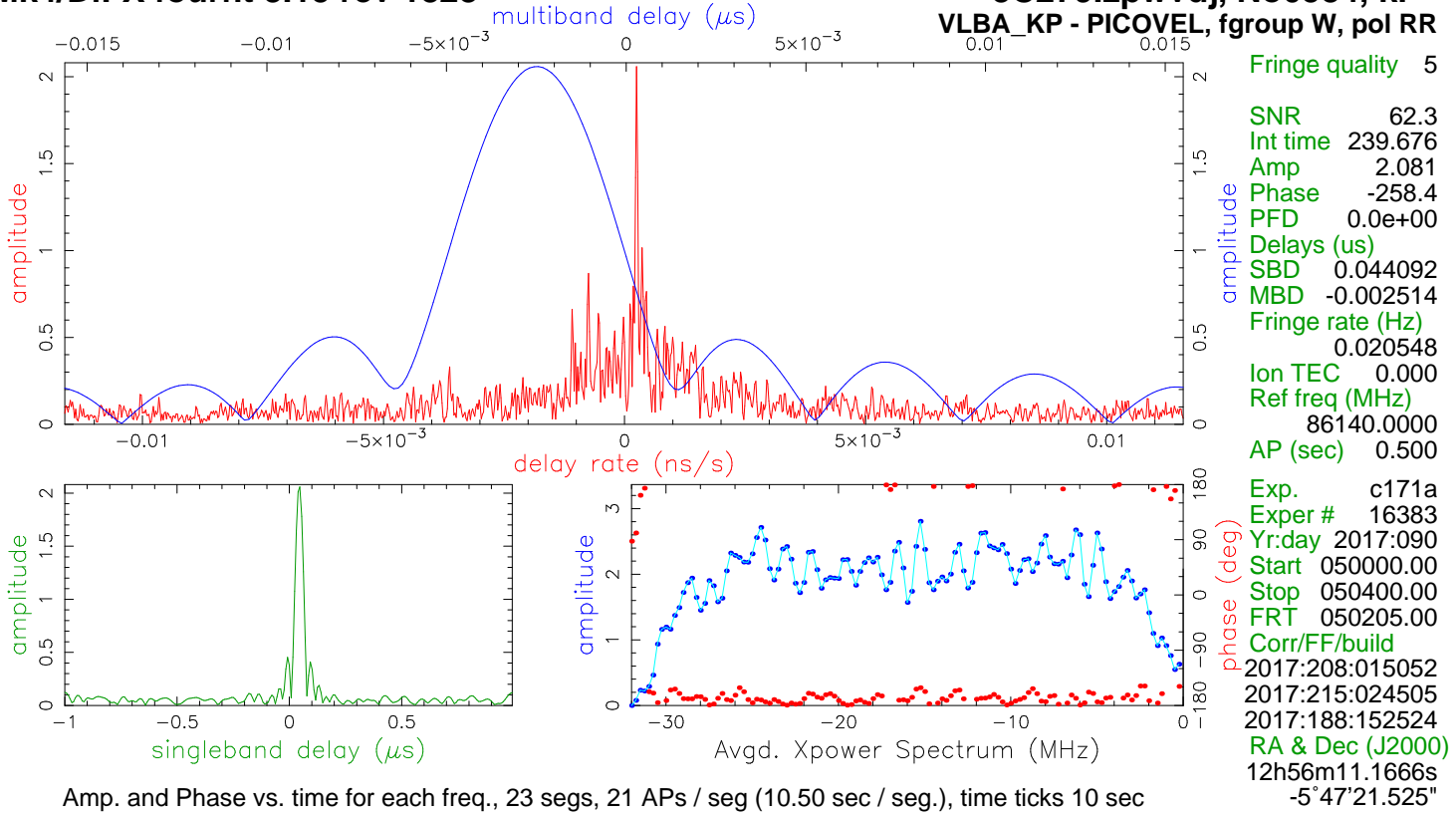
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
82.6	99.1	103.4	103.2	99.3	111.9	84.0	85.8		Phase	96.2
1.9	1.8	1.8	1.8	1.6	1.7	1.5	1.7		Ampl.	1.7
130.6	130.7	130.6	130.2	130.7	130.3	130.2	130.5		Sbd box	130.5
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480		APs used	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000		PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000		PC freqs	
k:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
k:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0		ManI PC	
k	1000	1000	1000	1000	1000	1000	1000		PC amp	
P	1000	1000	1000	1000	1000	1000	1000			
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.88909713766E+03		Apriori delay (usec)	6.88908583981E+03		Resid mbdelay (usec)	1.12978E-02	+/-	4.2E-05	
Sband delay (usec)	6.88909741281E+03		Apriori clock (usec)	-3.4831097E+00		Resid sbdelay (usec)	1.15730E-02	+/-	3.3E-04	
Phase delay (usec)	6.88908584291E+03		Apriori clockrate (us/s)	-5.2401914E-07		Resid phdelay (usec)	3.10289E-06	+/-	7.1E-08	
Delay rate (us/s)	2.00258032140E+00		Apriori rate (us/s)	2.00258008381E+00		Resid rate (us/s)	2.37597E-07	+/-	5.1E-10	
Total phase (deg)		183.0	Apriori accel (us/s/s)	-3.57988313975E-05		Resid phase (deg)	96.2	+/-	2.2	

	RMS	Theor.	Amplitude	1.739 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	47.2	5.3	Search (1024X32)	1.527	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
amp/seg (%)	47.5	9.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
ph/frq (deg)	11.6	3.1	Inc. seg. avg.	2.270	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
amp/frq (%)	7.3	5.4	Inc. frq. avg.	1.730	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			

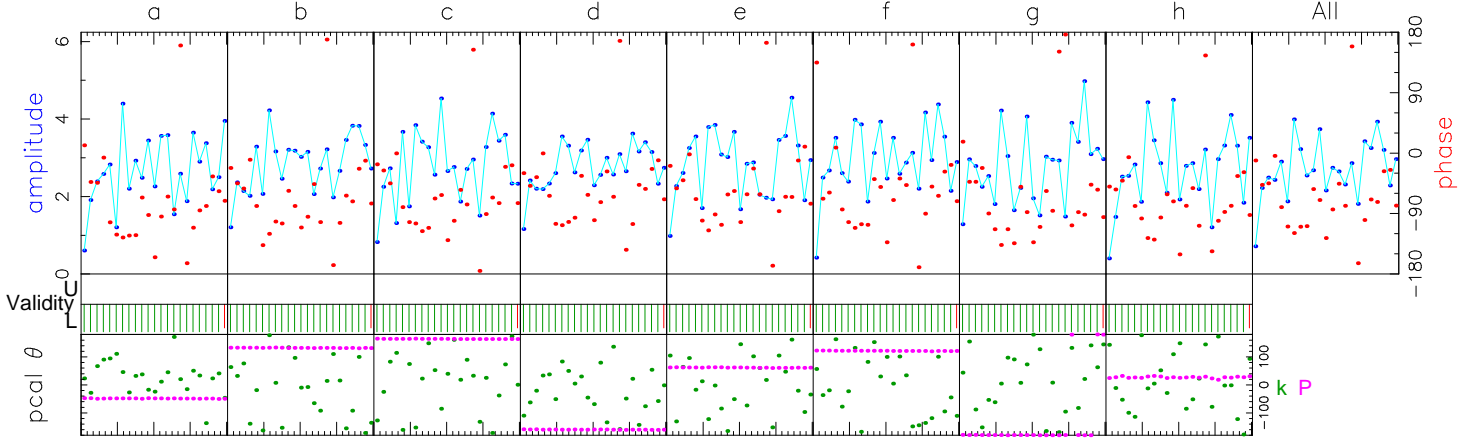
k: az 125.6 el 34.9 pa -43.7 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11554.650 -364.028 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kP..zpwwdj Output file: /Exps/c171a/gmva/1234/No0584/kP.W.69.zpwwdj





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

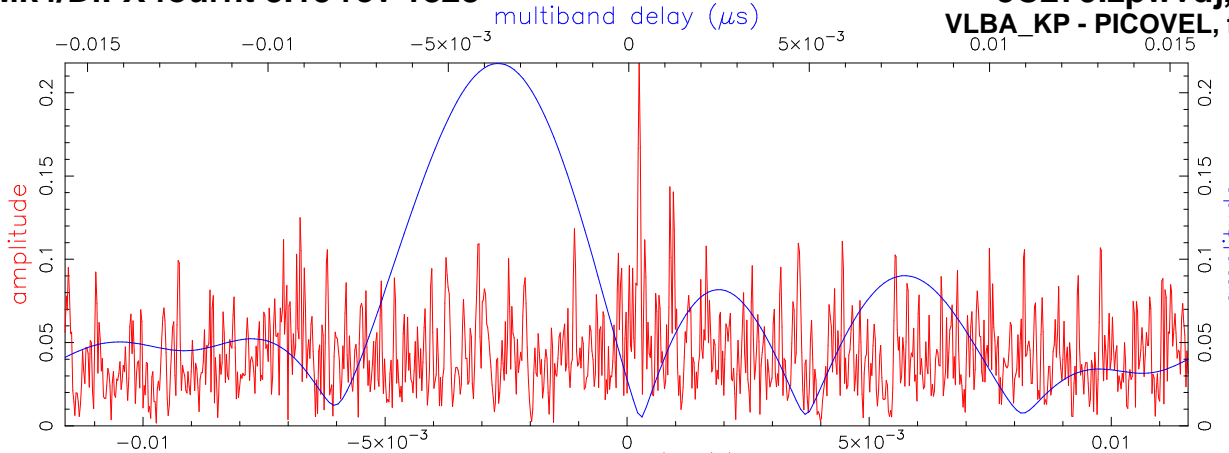


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-90.5	-80.3	-78.2	-68.5	-66.6	-71.6	-88.1	-84.9		-78.4
	2.0	2.1	2.1	2.1	2.2	2.1	2.1	2.0	Ampl.	2.1
	134.5	134.7	134.8	134.7	134.6	134.6	134.3	135.0	Sbd box	134.6
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.88911457630E+03		Apriori delay (usec)		6.88908583981E+03		Resid mbdelay (usec)		-2.51351E-03	+/- 3.5E-05
Sband delay (usec)	6.88912993131E+03		Apriori clock (usec)		-3.4831097E+00		Resid sbdelay (usec)		4.40915E-02	+/- 2.8E-04
Phase delay (usec)	6.88908583728E+03		Apriori clockrate (us/s)		-5.2401914E-07		Resid phdelay (usec)		-2.52936E-06	+/- 5.9E-08
Delay rate (us/s)	2.00258032234E+00		Apriori rate (us/s)		2.00258008381E+00		Resid rate (us/s)		2.38538E-07	+/- 4.3E-10
Total phase (deg)			Apriori accel (us/s/s)		-3.57988313975E-05		Resid phase (deg)		-258.4	+/- 1.8
RMS	46.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4		
ph/seg (deg)	46.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4		
amp/seg (%)	46.3	7.7	7.7	7.7	7.7	7.7	7.7	7.7		
ph/frq (deg)	9.7	2.6	2.6	2.6	2.6	2.6	2.6	2.6		
amp/frq (%)	2.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5		
Group delay (usec)(sbd)	6.88911457630E+03		Apriori delay (usec)		6.88908583981E+03		Resid mbdelay (usec)		-2.51351E-03	+/- 3.5E-05
Sband delay (usec)	6.88912993131E+03		Apriori clock (usec)		-3.4831097E+00		Resid sbdelay (usec)		4.40915E-02	+/- 2.8E-04
Phase delay (usec)	6.88908583728E+03		Apriori clockrate (us/s)		-5.2401914E-07		Resid phdelay (usec)		-2.52936E-06	+/- 5.9E-08
Delay rate (us/s)	2.00258032234E+00		Apriori rate (us/s)		2.00258008381E+00		Resid rate (us/s)		2.38538E-07	+/- 4.3E-10
Total phase (deg)			Apriori accel (us/s/s)		-3.57988313975E-05		Resid phase (deg)		-258.4	+/- 1.8
ph/seg (deg)	46.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4		
amp/seg (%)	46.3	7.7	7.7	7.7	7.7	7.7	7.7	7.7		
ph/frq (deg)	9.7	2.6	2.6	2.6	2.6	2.6	2.6	2.6		
amp/frq (%)	2.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5		
k: az 125.6 el 34.9 pa -43.7	P: az 250.4 el 15.1 pa 49.1		u,v (fr/asec)		-11554.650 -364.028		simultaneous interpolator			
Control file: ../cf_1234	Input file: /Exps/c171a/gmva/1234/No0584/kP..zpwvdj		Output file: /Exps/c171a/gmva/1234/No0584/kP.W.70.zpwvdj							

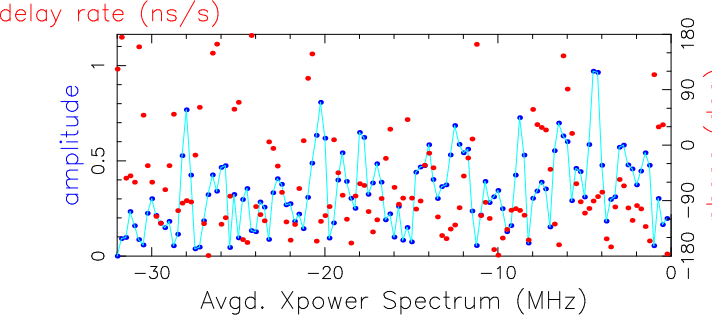
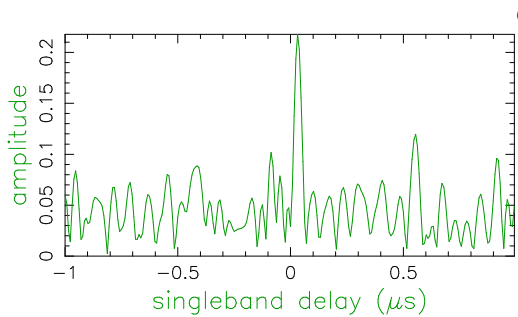
Group delay (usec)(sbd) 6.88911457630E+03 Apriori delay (usec) 6.88908583981E+03 Resid mbdelay (usec) -2.51351E-03 +/- 3.5E-05  
 Sband delay (usec) 6.88912993131E+03 Apriori clock (usec) -3.4831097E+00 Resid sbdelay (usec) 4.40915E-02 +/- 2.8E-04  
 Phase delay (usec) 6.88908583728E+03 Apriori clockrate (us/s) -5.2401914E-07 Resid phdelay (usec) -2.52936E-06 +/- 5.9E-08  
 Delay rate (us/s) 2.00258032234E+00 Apriori rate (us/s) 2.00258008381E+00 Resid rate (us/s) 2.38538E-07 +/- 4.3E-10  
 Total phase (deg) -171.7 Apriori accel (us/s/s) -3.57988313975E-05 Resid phase (deg) -258.4 +/- 1.8

RMS 46.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4  
 ph/seg (deg) 46.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4  
 amp/seg (%) 46.3 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7  
 ph/frq (deg) 9.7 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6  
 amp/frq (%) 2.4 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5

k: az 125.6 el 34.9 pa -43.7 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11554.650 -364.028 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kP..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/kP.W.70.zpwvdj

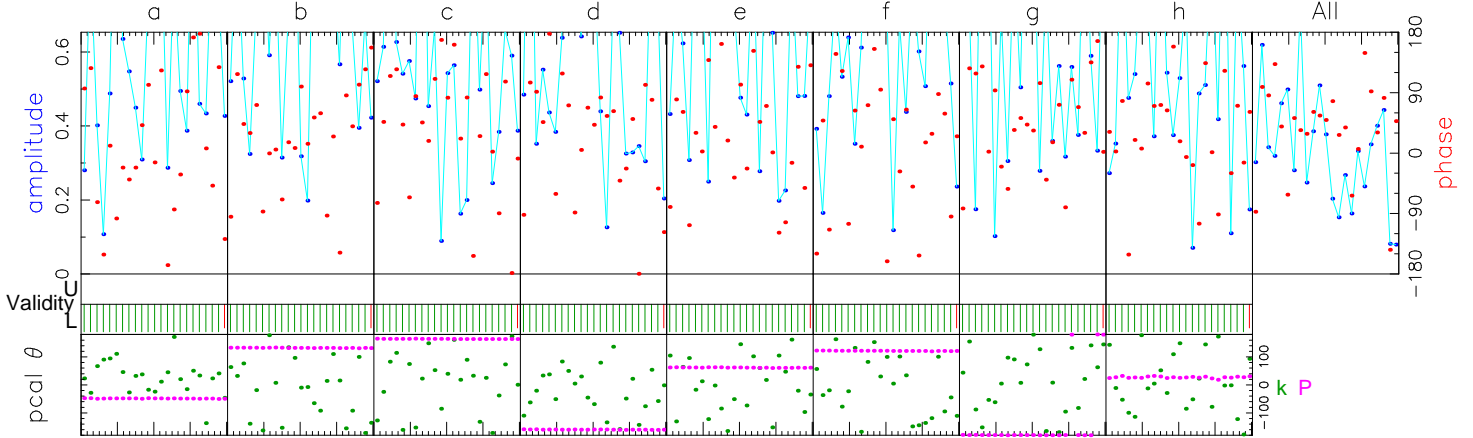


Fringe quality 0  
 SNR 6.5  
 Int time 239.676  
 Amp 0.218  
 Phase -127.0  
 PFD 4.9e-03  
 Delays (us)  
 SBD 0.032136  
 MBD -0.003606  
 Fringe rate (Hz)  
 0.020548  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500



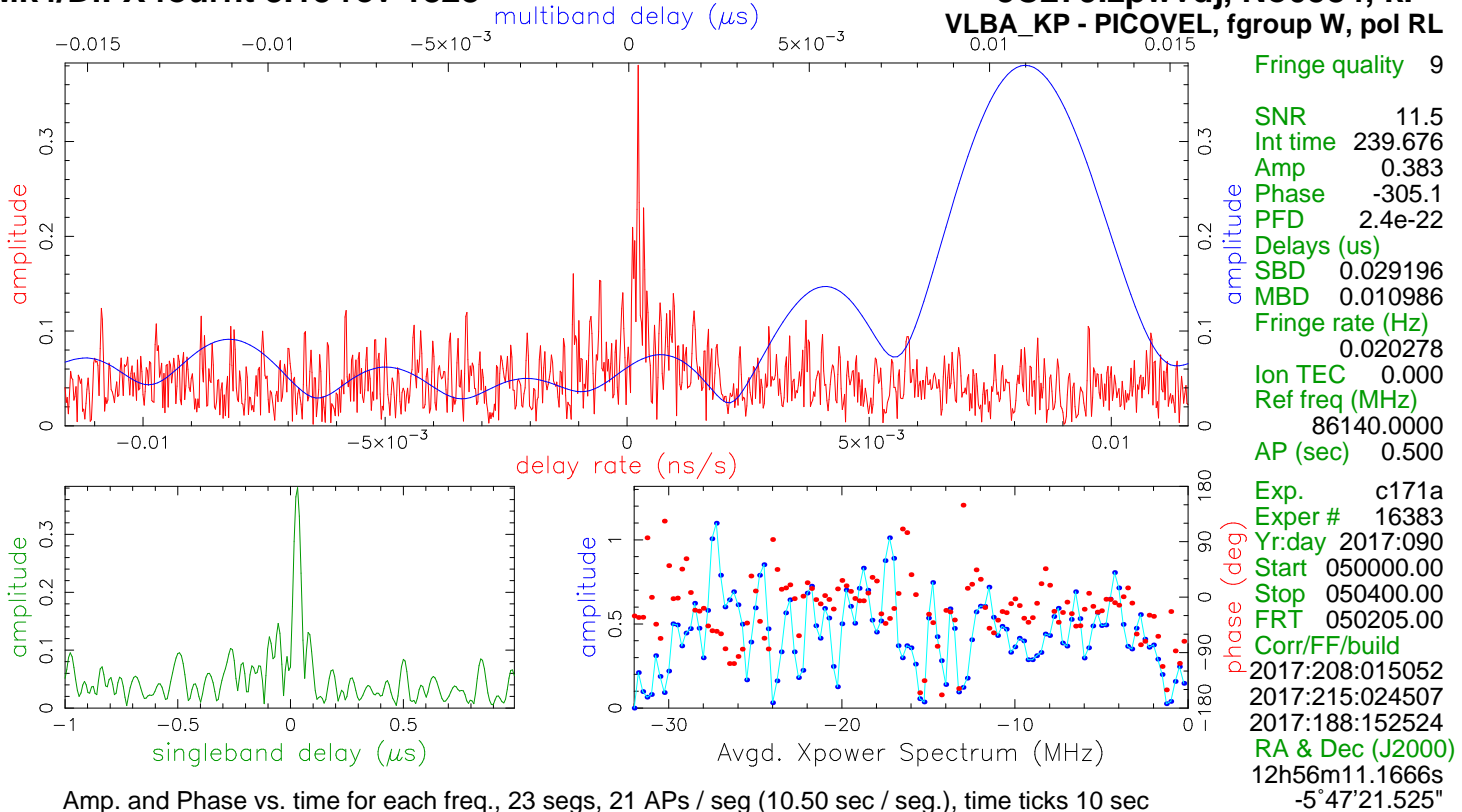
Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050000.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024506  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

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

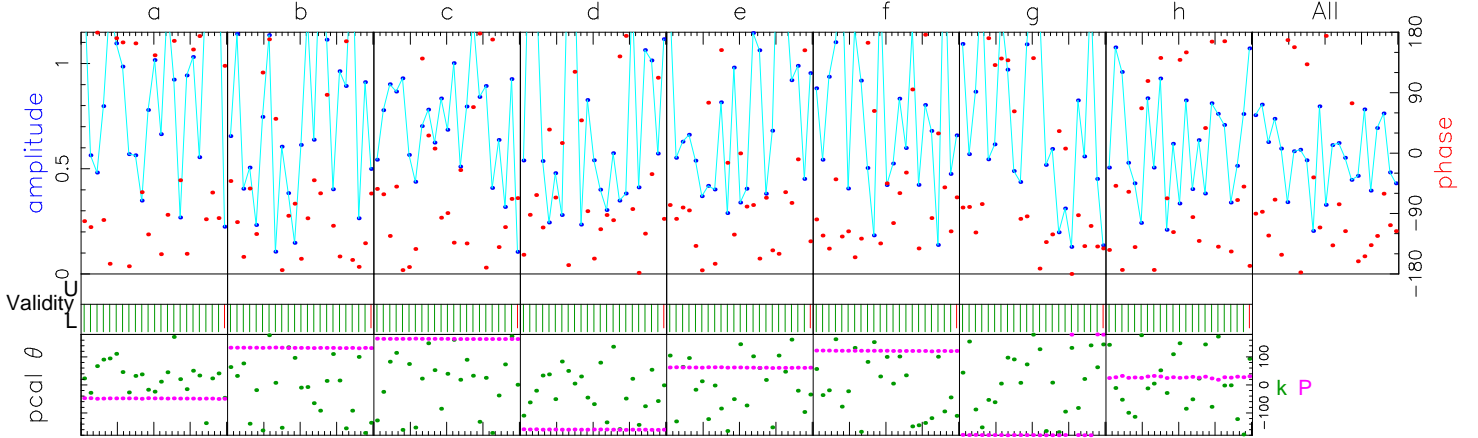


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-59.8	40.2	88.4	55.5	41.1	79.5	41.6	52.5	Phase	53.0
	0.0	0.3	0.2	0.3	0.3	0.2	0.3	0.3	Ampl.	0.2
	48.9	132.6	248.2	140.5	47.8	96.6	132.5	123.4	Sbd box	133.1
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.88911348355E+03		Apriori delay (usec)		6.88908583981E+03		Resid mbdelay (usec)		-3.60626E-03	+/- 3.3E-04
Sband delay (usec)	6.88911797631E+03		Apriori clock (usec)		-3.4831097E+00		Resid sbdelay (usec)		3.21365E-02	+/- 2.6E-03
Phase delay (usec)	6.88908584152E+03		Apriori clockrate (us/s)		-5.2401914E-07		Resid phdelay (usec)		1.70989E-06	+/- 5.7E-07
Delay rate (us/s)	2.00258032234E+00		Apriori rate (us/s)		2.00258008381E+00		Resid rate (us/s)		2.38538E-07	+/- 4.1E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.57988313975E-05		Resid phase (deg)		-127.0	+/- 17.6

ph/seg (deg) 66.0 42.1 Search (1024X32) 0.203 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 90.6 73.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 50.2 24.9 Inc. seg. avg. 0.267 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 41.5 43.4 Inc. frq. avg. 0.214 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 k: az 125.6 el 34.9 pa -43.7 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11554.650 -364.028 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kP.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/kP.W.71.zpwvdj

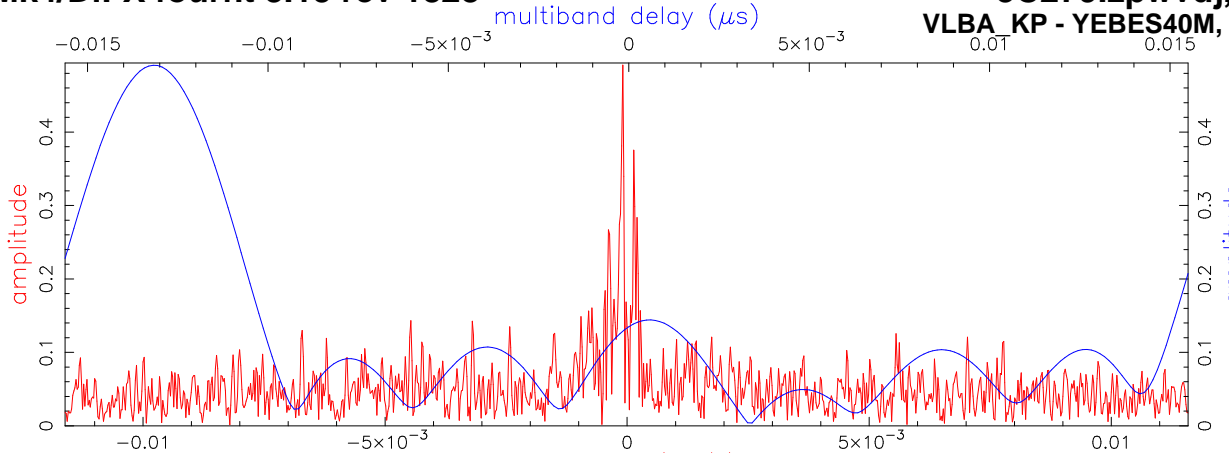


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

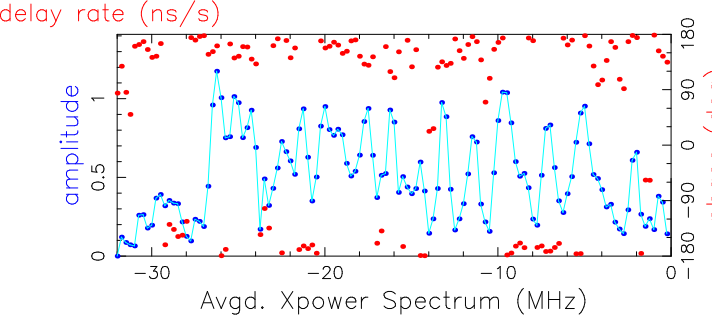
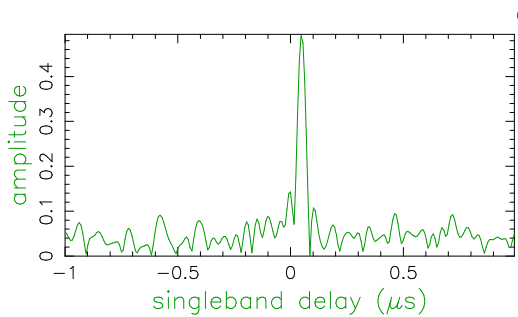


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All					
-139.1	-130.4	-118.0	-111.3	-106.3	-109.0	-137.7	-155.4	Phase	-125.1					
0.6	0.4	0.3	0.4	0.5	0.4	0.4	0.3	Ampl.	0.4					
132.9	132.6	122.0	132.2	131.9	132.6	132.6	202.2	Sbd box	132.7					
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used						
k -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs						
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs						
k:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase						
k:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC						
k 1000	1000	1000	1000	1000	1000	1000	1000	PC amp						
P 1000	1000	1000	1000	1000	1000	1000	1000							
k W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids						
P W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks						
Group delay (usec)(sbd)									6.88912807541E+03	Apriori delay (usec)	6.88908583981E+03	Resid mbdelay (usec)	1.09856E-02	+/- 1.9E-04
Sband delay (usec)									6.88911503531E+03	Apriori clock (usec)	0.354	Resid sbdelay (usec)	2.91955E-02	+/- 1.5E-03
Phase delay (usec)									6.88908583577E+03	Apriori clockrate (us/s)	-5.2401914E-07	Resid phdelay (usec)	-4.03442E-06	+/- 3.2E-07
Delay rate (us/s)									2.00258031922E+00	Apriori rate (us/s)	2.00258008381E+00	Resid rate (us/s)	2.35409E-07	+/- 2.3E-09
Total phase (deg)									-218.3	Apriori accel (us/s/s)	-3.57988313975E-05	Resid phase (deg)	-305.1	+/- 10.0

RMS 58.1 Theor. 24.0 Amplitude 0.383 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 65.2 41.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 19.0 14.1 Inc. seg. avg. 0.527 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 23.5 24.7 Inc. frq. avg. 0.384 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 k: az 125.6 el 34.9 pa -43.7 P: az 250.4 el 15.1 pa 49.1 u,v (fr/asec) -11554.650 -364.028 ion window (TEC) 0.00 0.00  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kP.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/kP.W.72.zpwvdj simultaneous interpolator

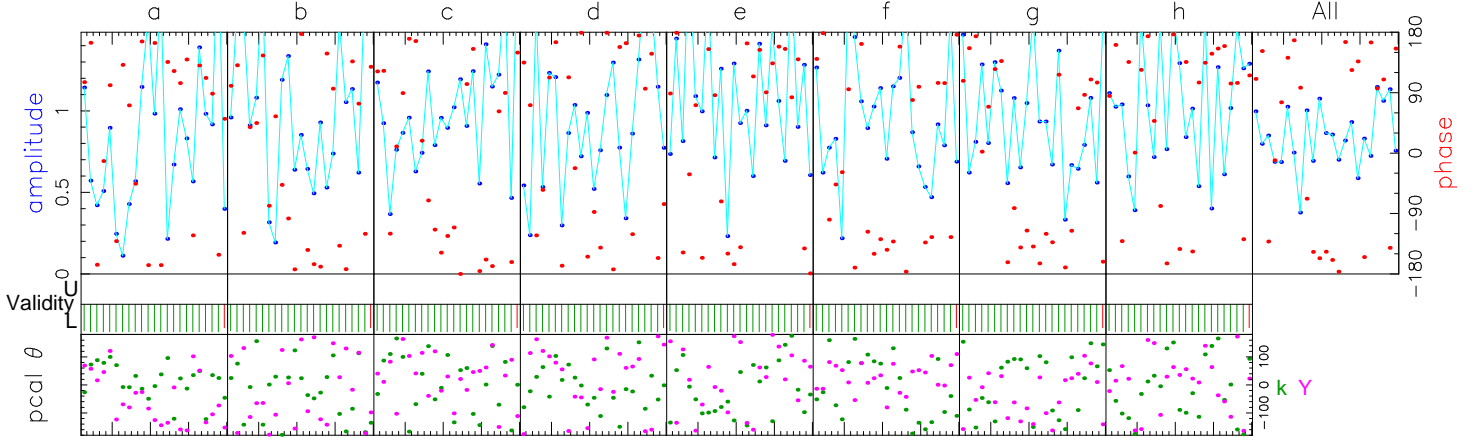


Fringe quality 9  
 SNR 14.4  
 Int time 228.084  
 Amp 0.494  
 Phase -193.9  
 PFD 5.2e-39  
 Delays (us)  
 SBD 0.049077  
 MBD -0.013175  
 Fringe rate (Hz)  
 -0.008516  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.500



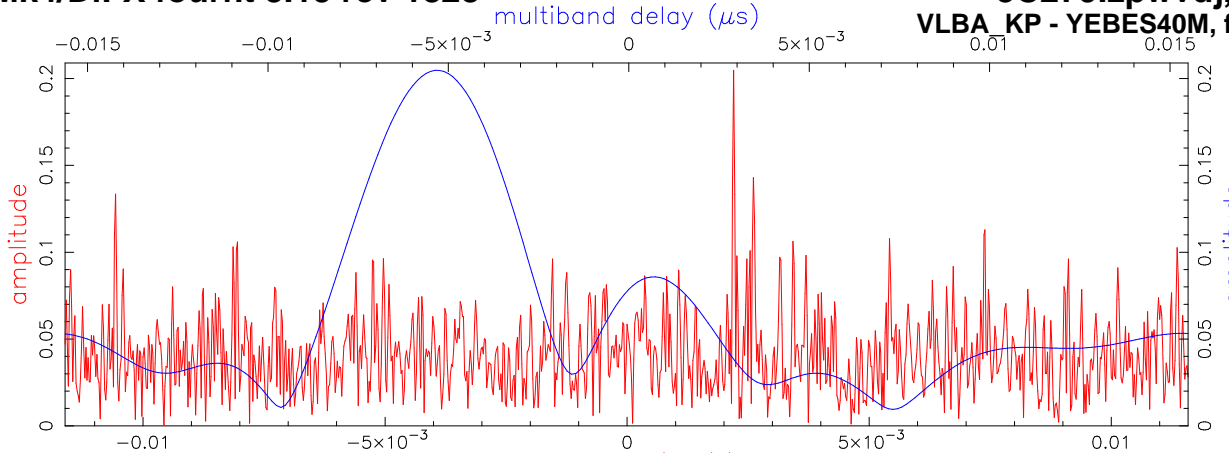
Exp. c171a  
 Exper # 16383  
 Yr:day 2017:090  
 Start 050011.00  
 Stop 050400.00  
 FRT 050205.00  
 Corr/FF/build  
 2017:208:015052  
 2017:215:024712  
 2017:188:152524  
 RA & Dec (J2000)  
 12h56m11.1666s  
 -5°47'21.525"

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

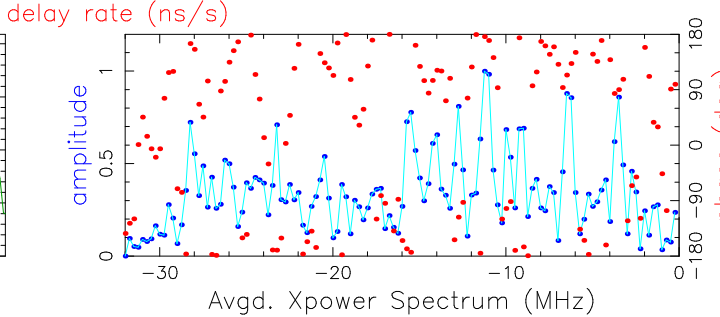
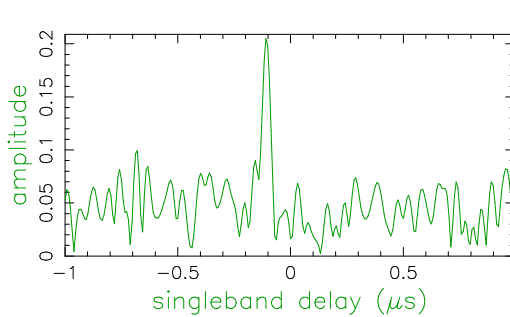


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	135.0	135.3
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	152.3	166.1
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	175.4	166.1
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.4	0.5
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.4	0.5
k	1000	1000	1000	1000	1000	1000	1000	1000	134.6	135.3
Y	1000	1000	1000	1000	1000	1000	1000	1000	134.7	135.3
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	178.0	166.0
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	156.7	156.0
Group delay (usec)(sbd)	7.38545190651E+03		Apriori delay (usec)		7.38540258121E+03		Resid mbdelay (usec)		-1.31747E-02	+/- 1.5E-04
Sband delay (usec)	7.38545165771E+03		Apriori clock (usec)		-6.8307261E+00		Resid sbdelay (usec)		4.90765E-02	+/- 1.2E-03
Phase delay (usec)	7.38540258656E+03		Apriori clockrate (us/s)		-4.6401918E-07		Resid phdelay (usec)		5.35597E-06	+/- 2.6E-07
Delay rate (us/s)	1.95128635140E+00		Apriori rate (us/s)		1.95128645027E+00		Resid rate (us/s)		-9.88667E-08	+/- 1.9E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.79128759893E-05		Resid phase (deg)		-193.9	+/- 7.9
ph/seg (deg)	RMS 62.9	Theor. 19.0	Amplitude 19.0	0.494 +/- 0.034	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000 1.000
amp/seg (%)	79.5	33.2	Search (1024X32)	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.016 0.016
ph/frq (deg)	12.6	11.2	Interp.	0.797	Bits/sample: 2x2				dr window (ns/s)	-0.012 0.012
amp/frq (%)	13.6	19.6	Inc. seg. avg.	0.491	Sample rate(MSamp/s): 64				ion window (TEC)	0.00 0.00
		Inc. frq. avg.		0.491	Data rate(Mb/s): 1024					
				0.491	nlags: 128 t_cohere infinite					

k: az 125.6 el 34.9 pa -43.7 Y: az 249.7 el 13.7 pa 45.9 u,v (fr/asec) -11261.032 -759.812 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kY..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/kY.W.189.zpwvdj

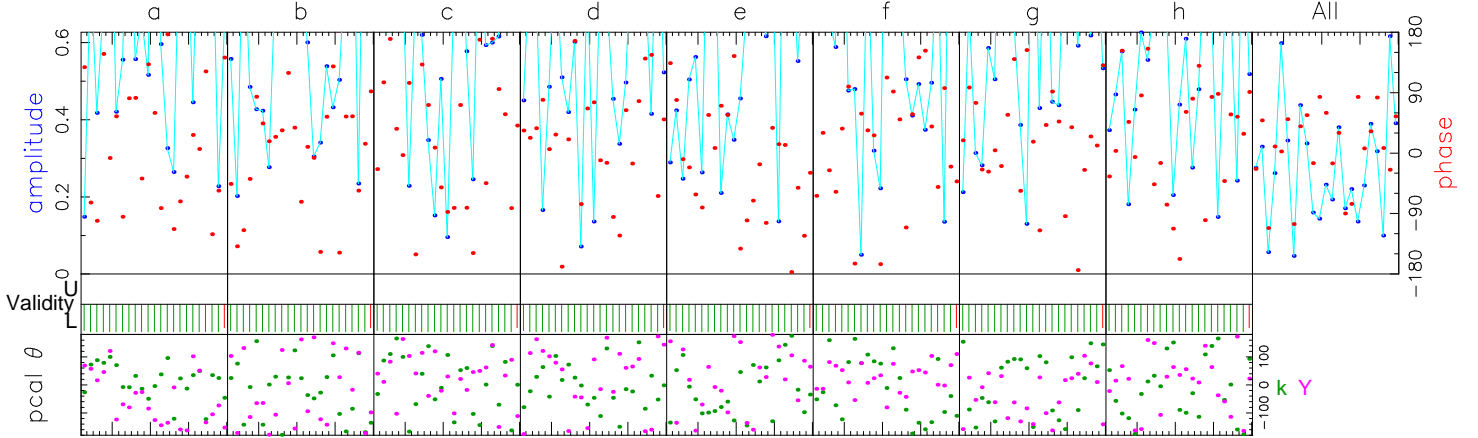


Fringe quality 0  
SNR 6.0  
Int time 228.084  
Amp 0.209  
Phase 561.5  
PFD 1.1e-01  
Delays (us)  
SBD -0.107174  
MBD -0.005304  
Fringe rate (Hz) 0.189738  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.500  
Exp. c171a  
Exper # 16383  
Yr:day 2017:090  
Start 050011.00  
Stop 050400.00  
FRT 050205.00  
Corr/FF/build  
2017:208:015052  
2017:215:024713  
2017:188:152524  
RA & Dec (J2000)  
12h56m11.1666s  
-5°47'21.525"



Avgd. Xpower Spectrum (MHz)

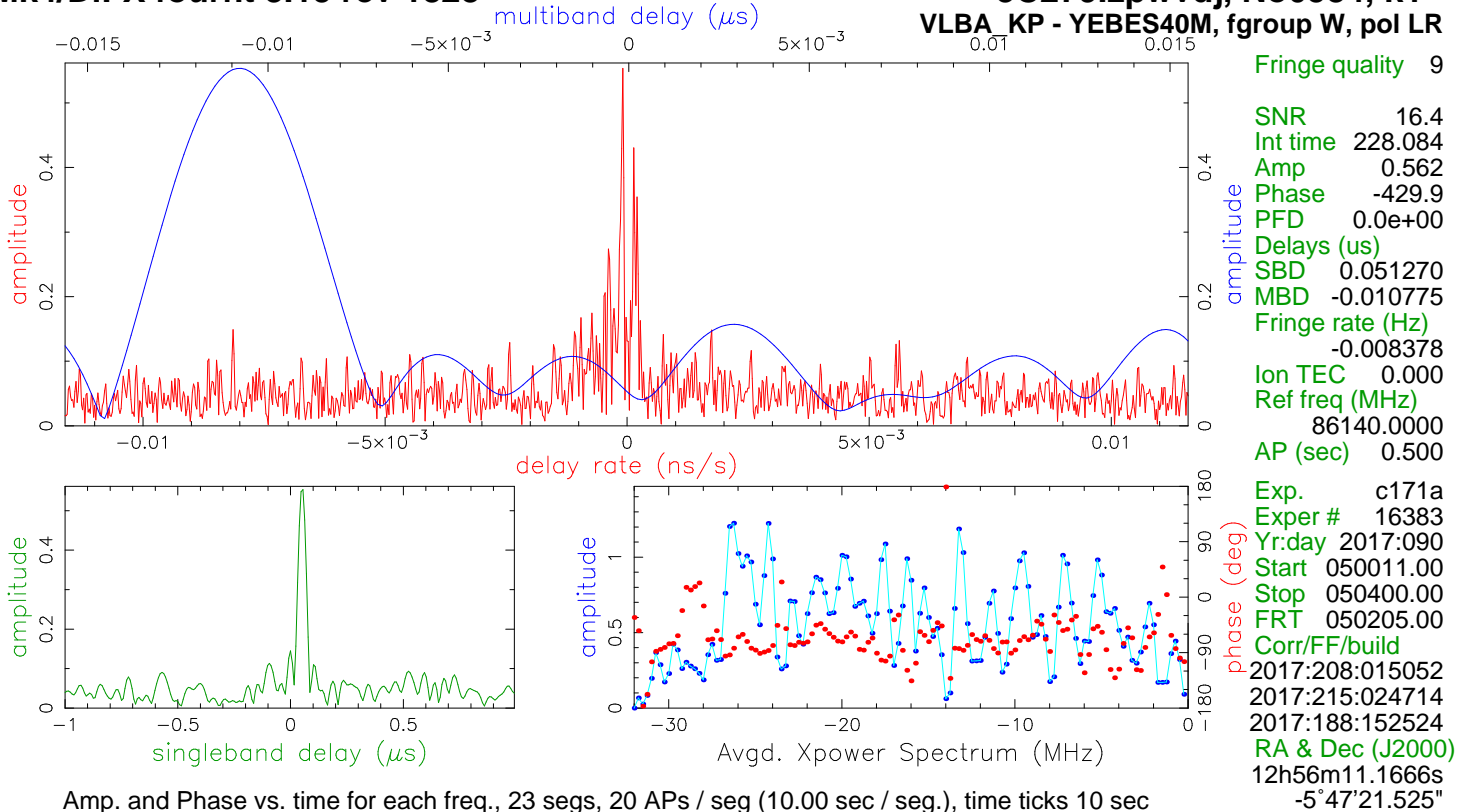
Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



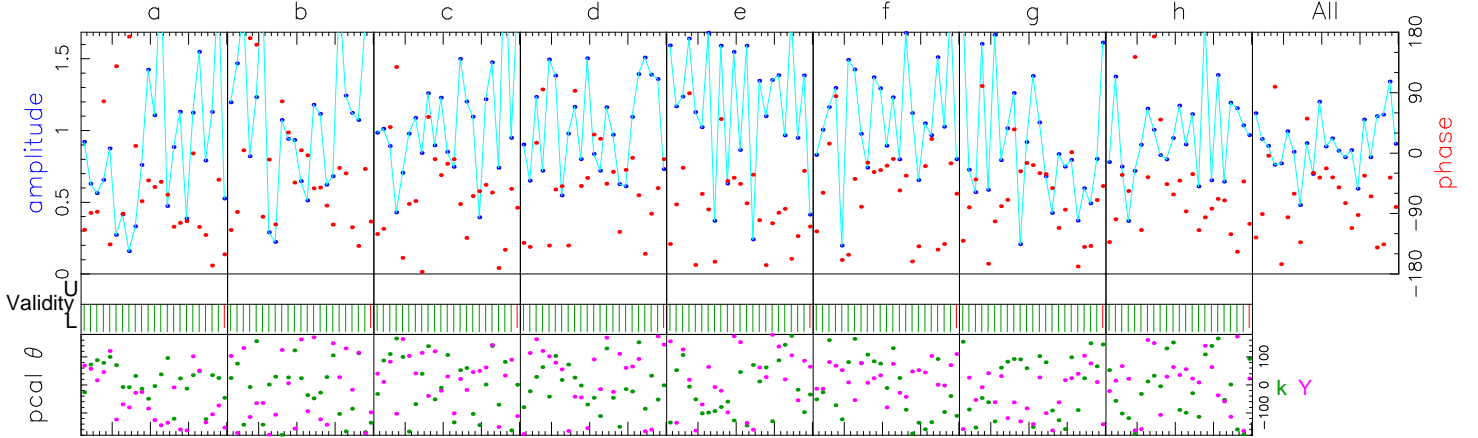
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458		
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.38530352745E+03		Apriori delay (usec)		7.38540258121E+03		Resid mbdelay (usec)		-5.30376E-03	+/- 3.6E-04
Sband delay (usec)	7.38529540721E+03		Apriori clock (usec)		-6.8307261E+00		Resid sbdelay (usec)		-1.07174E-01	+/- 2.9E-03
Phase delay (usec)	7.38540258190E+03		Apriori clockrate (us/s)		-4.6401918E-07		Resid phdelay (usec)		6.94365E-07	+/- 6.1E-07
Delay rate (us/s)	1.95128865294E+00		Apriori rate (us/s)		1.95128645027E+00		Resid rate (us/s)		2.20267E-06	+/- 4.6E-09
Total phase (deg)	685.8		Apriori accel (us/s/s)		-3.79128759893E-05		Resid phase (deg)		561.5	+/- 19.1
	RMS	Theor.	Amplitude	0.209 +/- 0.035	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	59.4	45.7	Search (1024X32)	0.199	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000
amp/seg (%)	79.7	79.8	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		-0.016	0.016
ph/frq (deg)	25.5	26.9	Inc. seg. avg.	0.213	Sample rate(MSamp/s): 64		dr window (ns/s)		-0.012	0.012
amp/frq (%)	32.0	47.0	Inc. frq. avg.	0.199	Data rate(Mb/s): 1024		ion window (TEC)		0.00	0.00
					nlags: 128 t_cohere infinite					

k: az 125.6 el 34.9 pa -43.7 Y: az 249.7 el 13.7 pa 45.9 u,v (fr/asec) -11261.032 -759.812 simultaneous interpolator  
Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kY..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/kY.W.190.zpwvdj



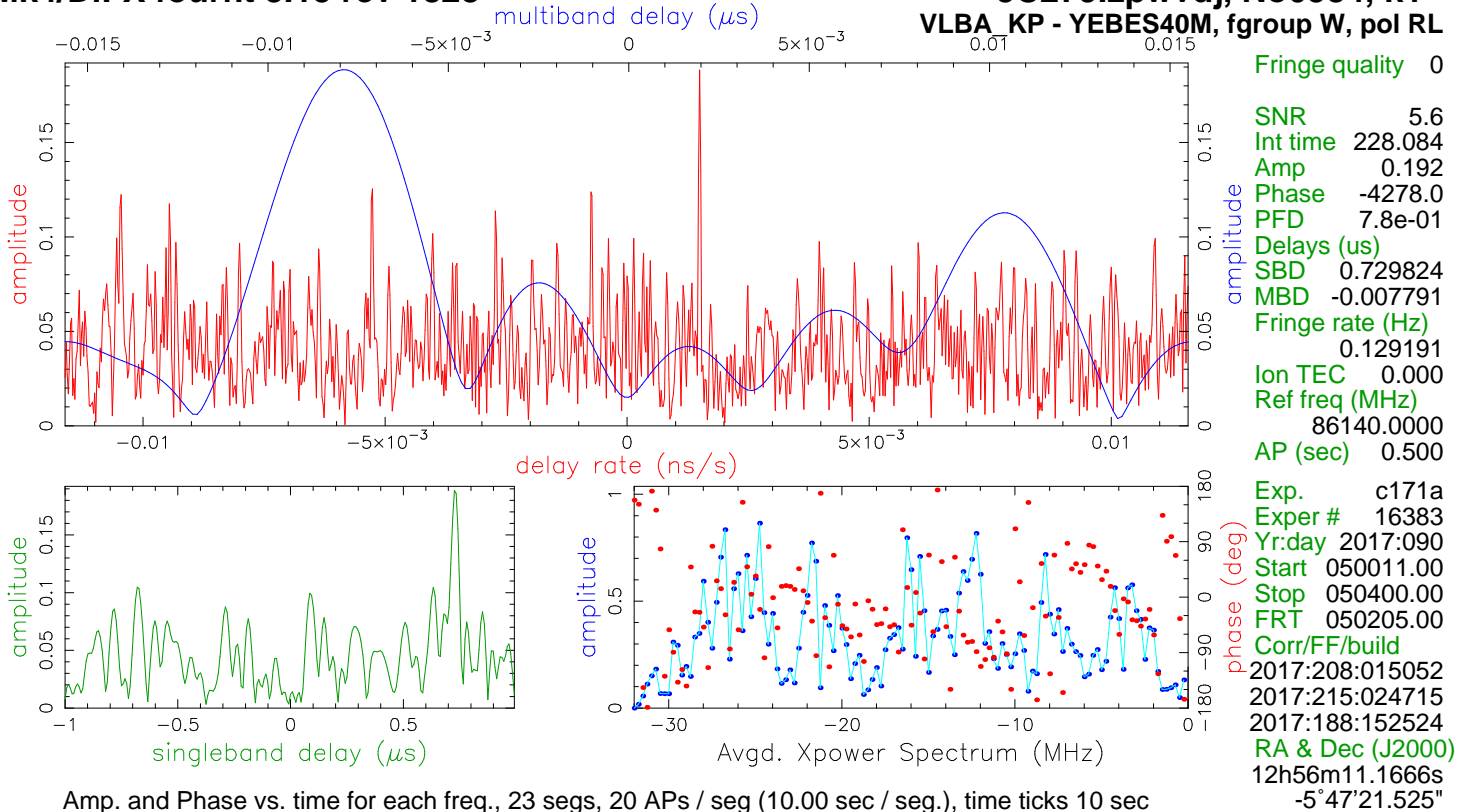


Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-78.4	-59.8	-76.8	-57.1	-86.0	-47.5	-65.2	-82.6	Phase	-69.9
0.6	0.6	0.6	0.5	0.6	0.6	0.5	0.6	Ampl.	0.6
135.3	136.2	135.5	135.0	136.2	135.0	135.6	135.3	Sbd box	135.6
U/L 0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
k -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
k 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y 1000	1000	1000	1000	1000	1000	1000	1000		
k W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Y W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	7.38545430645E+03		Apriori delay (usec)	7.38540258121E+03		Resid mbdelay (usec)	-1.07748E-02	+/-	1.3E-04
Sband delay (usec)	7.38545385171E+03		Apriori clock (usec)	-6.8307261E+00		Resid sbdelay (usec)	5.12705E-02	+/-	1.1E-03
Phase delay (usec)	7.38540257895E+03		Apriori clockrate (us/s)	-4.6401918E-07		Resid phdelay (usec)	-2.25281E-06	+/-	2.3E-07
Delay rate (us/s)	1.95128635301E+00		Apriori rate (us/s)	1.95128645027E+00		Resid rate (us/s)	-9.72574E-08	+/-	1.7E-09
Total phase (deg)		-305.6	Apriori accel (us/s/s)	-3.79128759893E-05		Resid phase (deg)	-429.9	+/-	7.0

ph/seg (deg) 61.2 16.7 Theor. Amplitude 0.562 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 70.6 29.2 Search (1024X32) 0.538 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 14.9 9.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 9.6 17.2 Inc. seg. avg. 0.873 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012  
 k: az 125.6 el 34.9 pa -43.7 Y: az 249.7 el 13.7 pa 45.9 u,v (fr/asec) -11261.032 -759.812 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kY..zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/kY.W.191.zpwvdj



Fringe quality 0

SNR 5.6

Int time 228.084

Amp 0.192

Phase -4278.0

PFD 7.8e-01

Delays (us)

SBD 0.729824

MBD -0.007791

Fringe rate (Hz) 0.129191

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

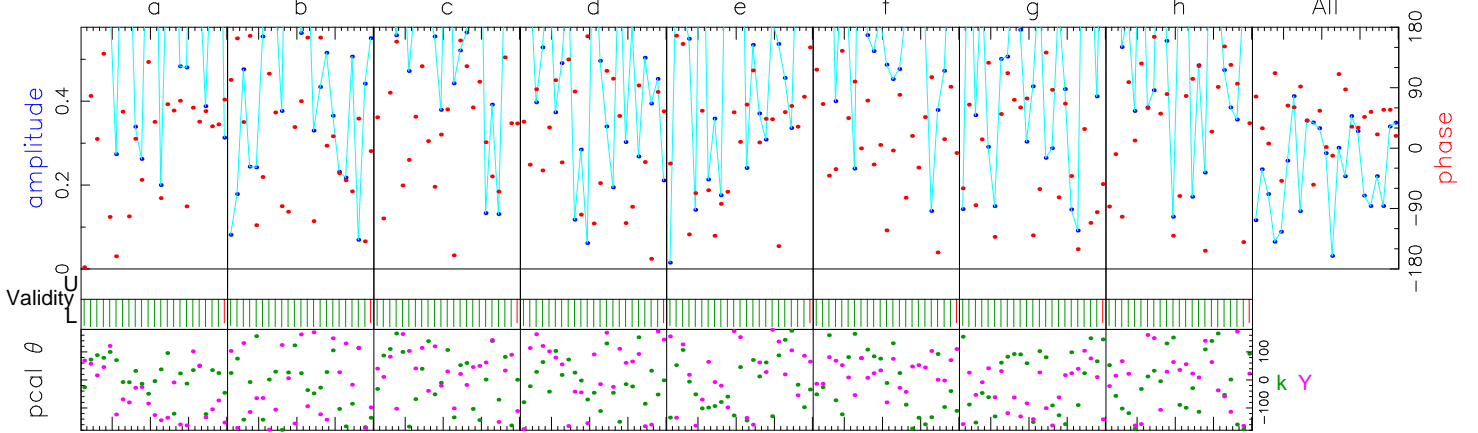
Corr/FF/build

2017:208:015052

2017:215:024715

2017:188:152524

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



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	52.5	2.4	59.4	18.6	55.7	17.5	15.2	71.3	Phase	42.0
	0.3	0.1	0.3	0.1	0.2	0.3	0.1	0.2	Ampl.	0.2
	222.0	66.0	233.2	143.4	214.3	222.7	82.8	242.9	Sbd box	222.4
U/L	0/458	0/458	0/458	0/458	0/458	0/458	0/458	0/458	APs used	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.38614479062E+03		Apriori delay (usec)		7.38540258121E+03		Resid mbdelay (usec)		-7.79059E-03	+/- 3.9E-04
Sband delay (usec)	7.38613240571E+03		Apriori clock (usec)		-6.8307261E+00		Resid sbdelay (usec)		7.29824E-01	+/- 3.1E-03
Phase delay (usec)	7.38540258256E+03		Apriori clockrate (us/s)		-4.6401918E-07		Resid phdelay (usec)		1.35555E-06	+/- 6.6E-07
Delay rate (us/s)	1.95128795004E+00		Apriori rate (us/s)		1.95128645027E+00		Resid rate (us/s)		1.49978E-06	+/- 5.0E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.79128759893E-05		Resid phase (deg)		-4278.0	+/- 20.6

ph/seg (deg) 42.6 49.3 Search (1024X32) 0.182 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 60.4 86.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 28.6 29.1 Inc. seg. avg. 0.173 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 47.6 50.8 Inc. frq. avg. 0.181 Data rate (Mb/s): 1024 nlags: 128 t\_cohere infinite dr window (ns/s) -0.012 0.012

k: az 125.6 el 34.9 pa -43.7 Y: az 249.7 el 13.7 pa 45.9 u,v (fr/asec) -11261.032 -759.812 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/c171a/gmva/1234/No0584/kY.zpwvdj Output file: /Exps/c171a/gmva/1234/No0584/kY.W.192.zpwvdj