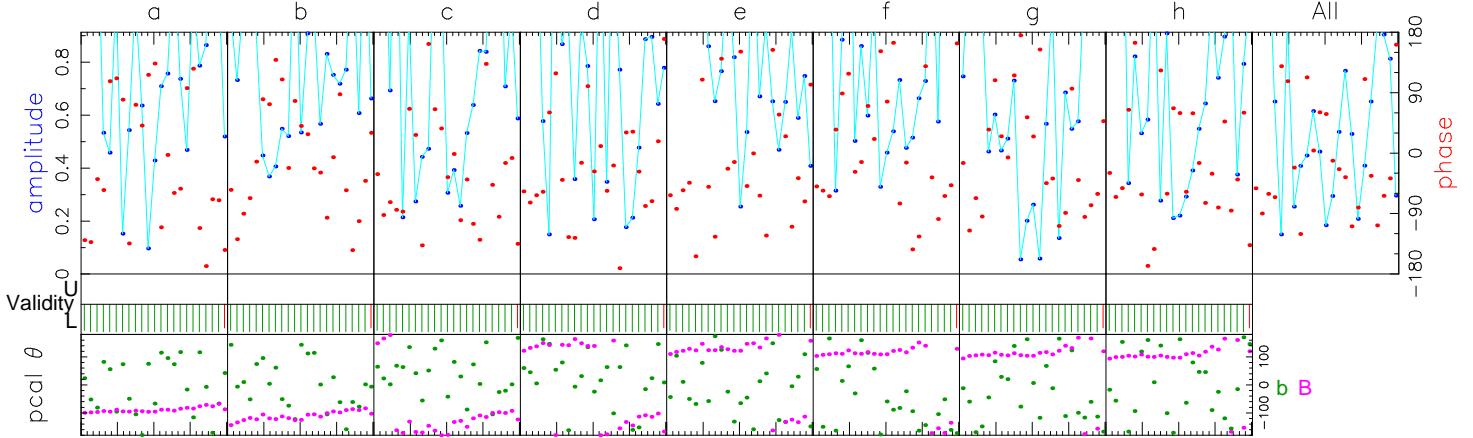


Fringe quality 9
SNR 9.1
Int time 239.447
Amp 0.304
Phase -53.5
PFD 8.1e-12
Delays (us)
SBD -0.004619
MBD -0.006178
Fringe rate (Hz)
-0.021367
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500
Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022509
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2° 03' 8.598"

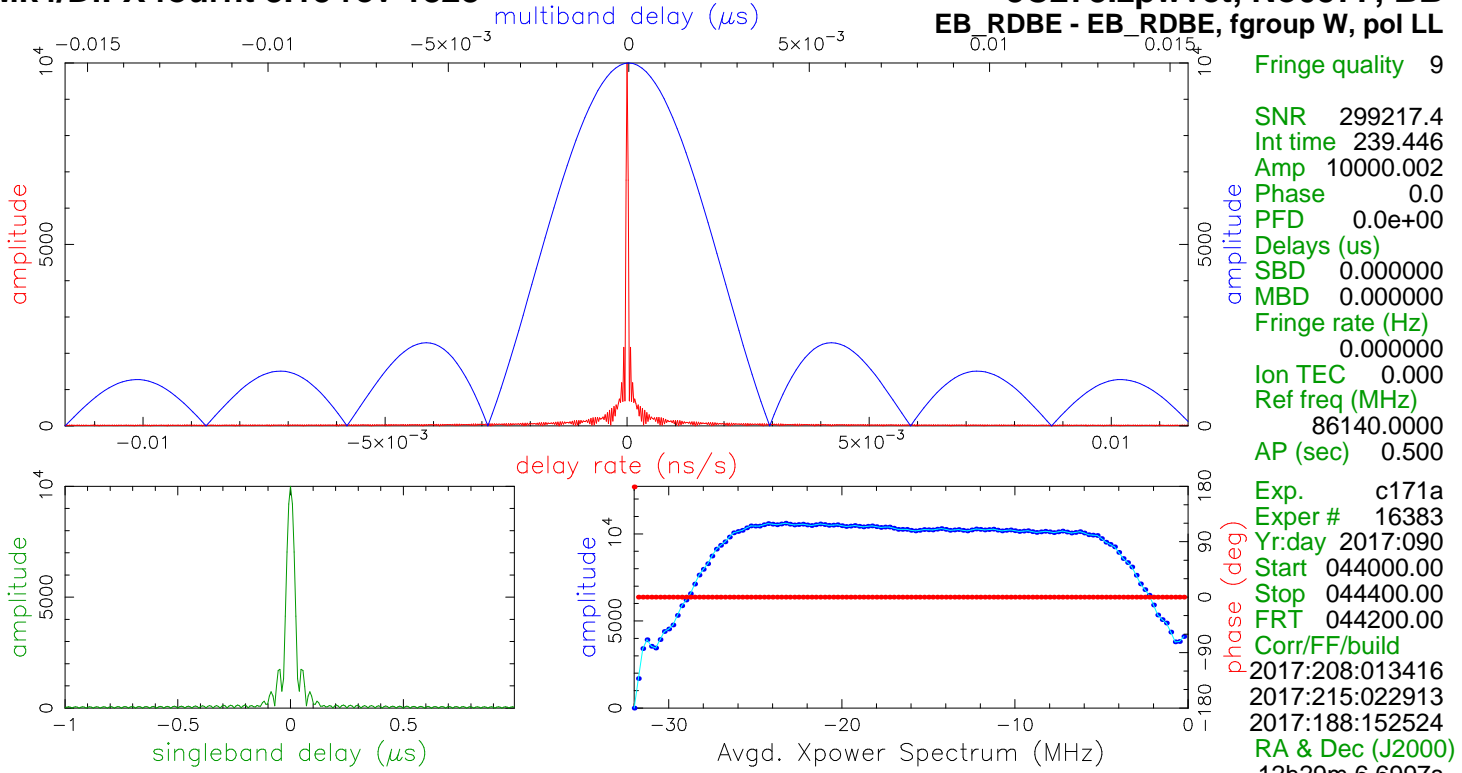
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-90.1	-30.4	-55.3	-45.3	-62.3	-41.7	-50.8	-60.7	Phase	-53.5
	0.2	0.3	0.4	0.3	0.4	0.2	0.3	0.4	Ampl.	0.3
	38.2	129.7	128.9	126.7	13.6	203.9	182.6	128.9	Sbd box	128.4
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.80447399554E+03		Apriori delay (usec)		6.80448017340E+03		Resid mbdelay (usec)		-6.17787E-03	+/- 2.4E-04
Sband delay (usec)	6.80447555440E+03		Apriori clock (usec)		-3.3204369E+01		Resid sbdelay (usec)		-4.61900E-03	+/- 1.9E-03
Phase delay (usec)	6.80448017168E+03		Apriori clockrate (us/s)		3.7026890E-08		Resid phdelay (usec)		-1.72495E-06	+/- 4.1E-07
Delay rate (us/s)	1.73808188108E+00		Apriori rate (us/s)		1.73808212913E+00		Resid rate (us/s)		-2.48050E-07	+/- 2.9E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.64571948783E-05		Resid phase (deg)		-53.5	+/- 12.6

ph/seg (deg) 87.8 30.2 Amplitude 0.304 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 143.0 52.7 Search (1024X32) 0.297 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 19.2 17.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 18.2 31.1 Inc. seg. avg. 0.532 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. 0.297 ion window (TEC) 0.00 0.00

b: az 122.2 el 27.9 pa -34.4 B: az 262.0 el 9.0 pa 39.1 u,v (fr/asec) -9984.394 -334.226 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/bB.zpwvct Output file: /Exps/c171a/gmva/1234/No0577/bB.W.1.zpwvct



Fringe quality 9

SNR 299217.4

Int time 239.446

Amp 10000.002

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 044000.00

Stop 044400.00

FRT 044200.00

Corr/FF/build

2017:208:013416

2017:215:022913

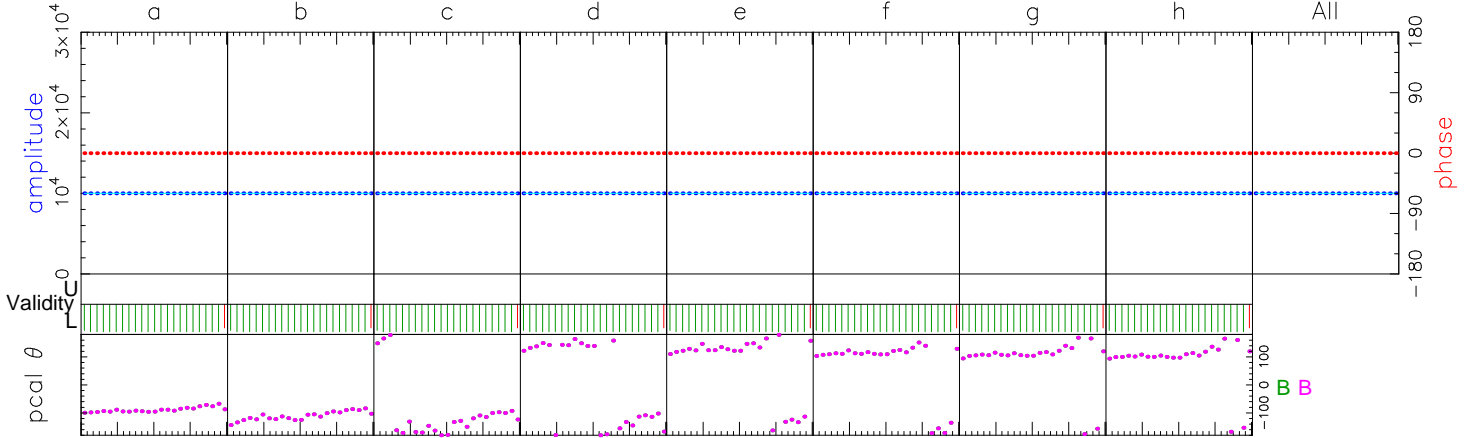
2017:188:152524

RA & Dec (J2000)

12h29m 6.6997s

+2°03' 8.598"

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



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Phase	0.0
10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	Sbd box	129.0
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:B 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:B 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B 1000	1000	1000	1000	1000	1000	1000	1000		
B W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
B W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	7.3E-09		
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	5.8E-08		
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.2E-11		
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	8.9E-14		
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0		

ph/seg (deg) 0.0 0.0 Theor. Amplitude 10000.002 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

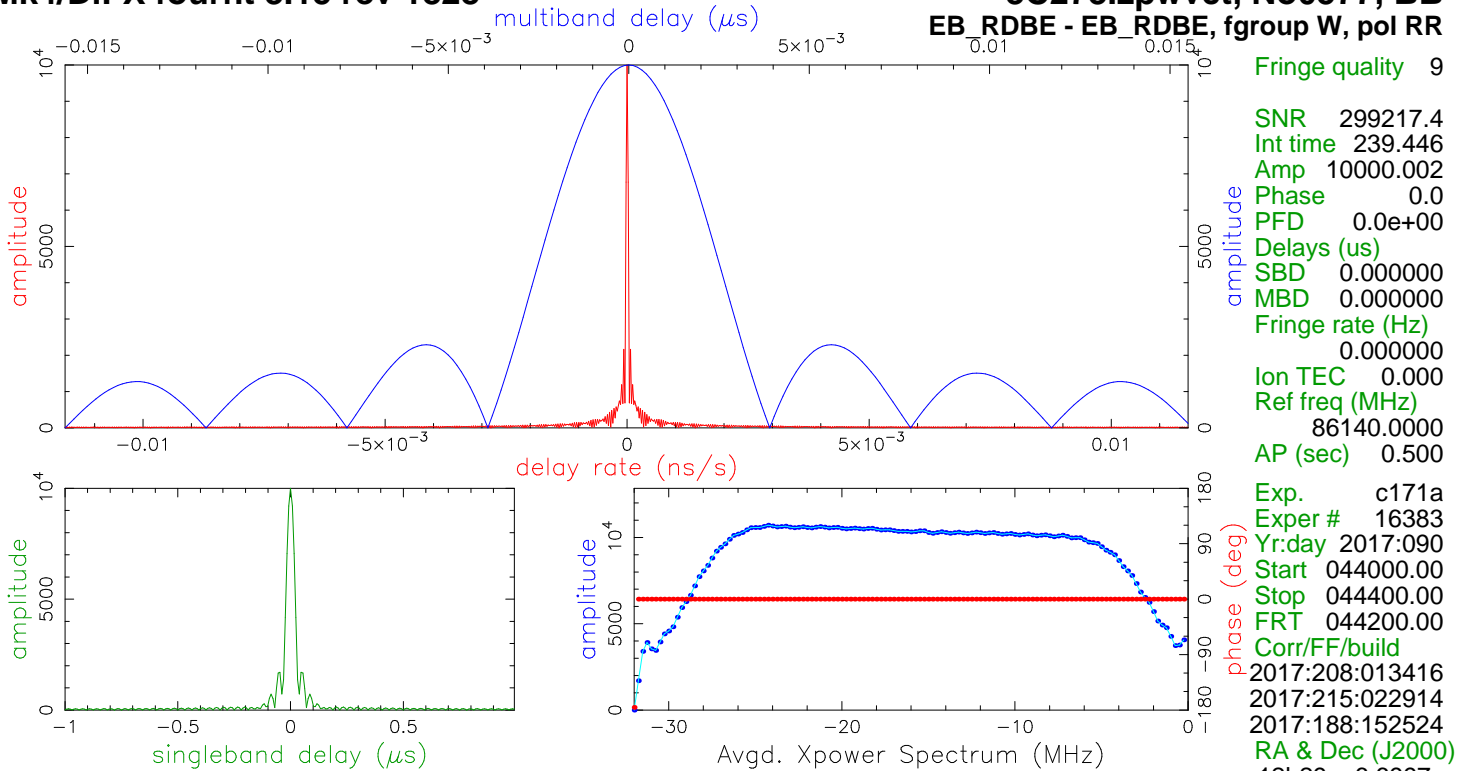
amp/seg (%) 0.0 0.0 Search (1024X32) 10000.002 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

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

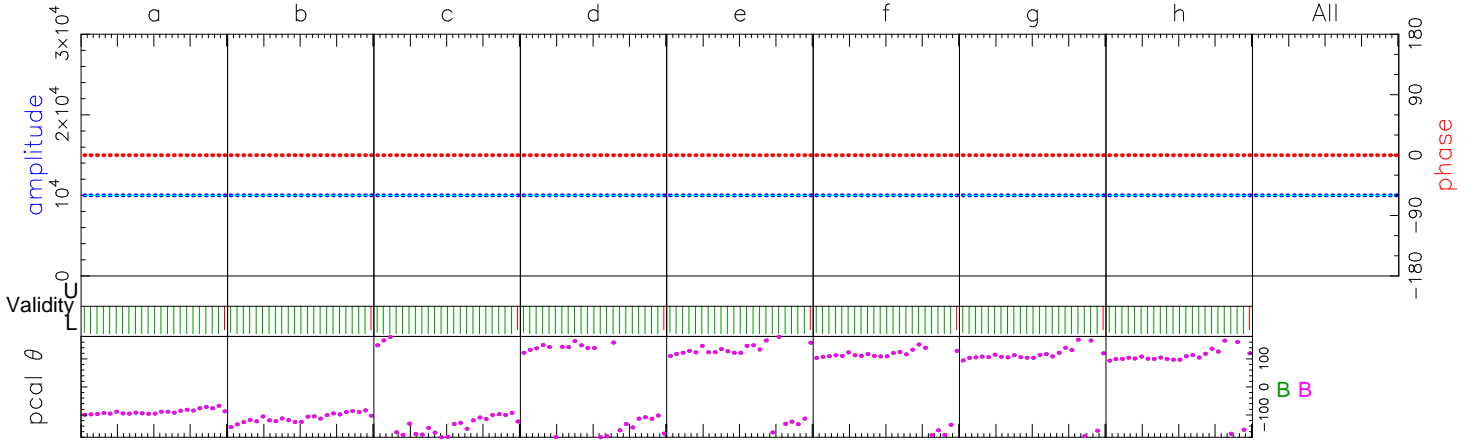
amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

B: az 262.0 el 9.0 pa 39.1 B: az 262.0 el 9.0 pa 39.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/BB..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/BB.W.225.zpwvct



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



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Phase	0.0
10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	Sbd box	129.0
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:B 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:B 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B 1000	1000	1000	1000	1000	1000	1000	1000		
B W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
B W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	7.3E-09		
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	5.8E-08		
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.2E-11		
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	8.9E-14		
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0		

ph/seg (deg) 0.0 0.0 Theor. Amplitude 10000.002 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

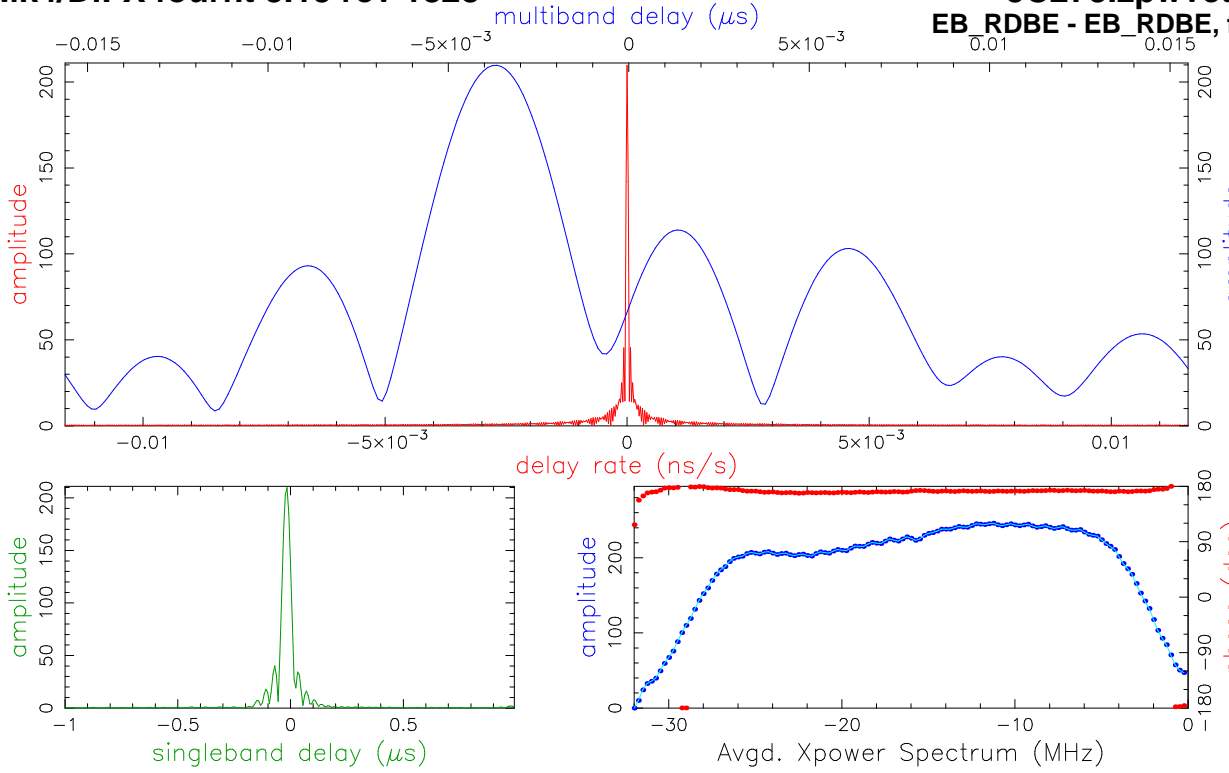
amp/seg (%) 0.0 0.0 Search (1024X32) 10000.002 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

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

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

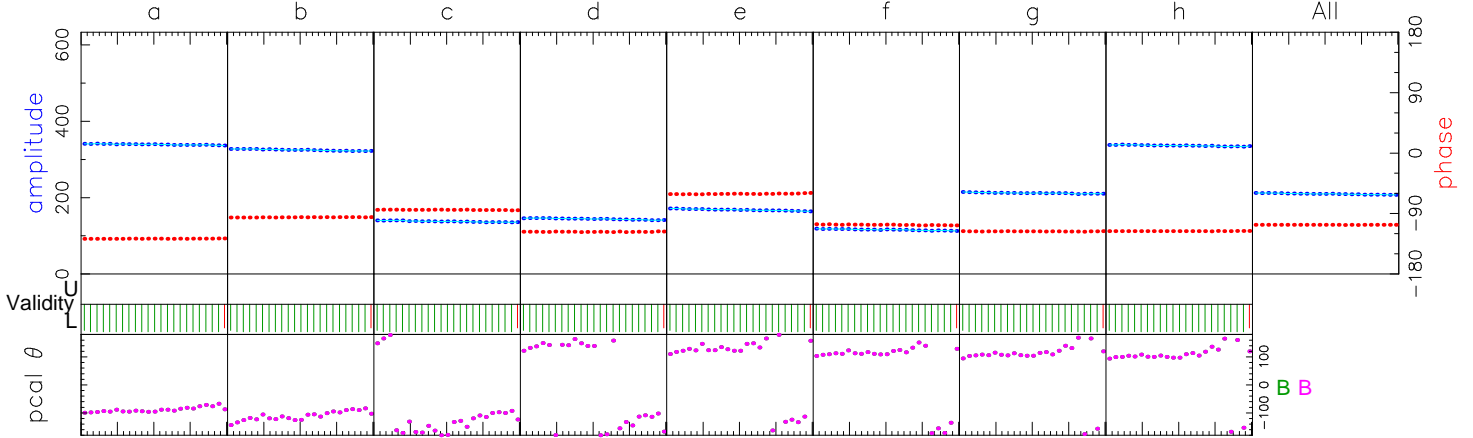
B: az 262.0 el 9.0 pa 39.1 B: az 262.0 el 9.0 pa 39.1 u,v (fr/asec) 0.000 0.000 Data rate (TEC) 0.00 0.00 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/BB..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/BB.W.226.zpwvct



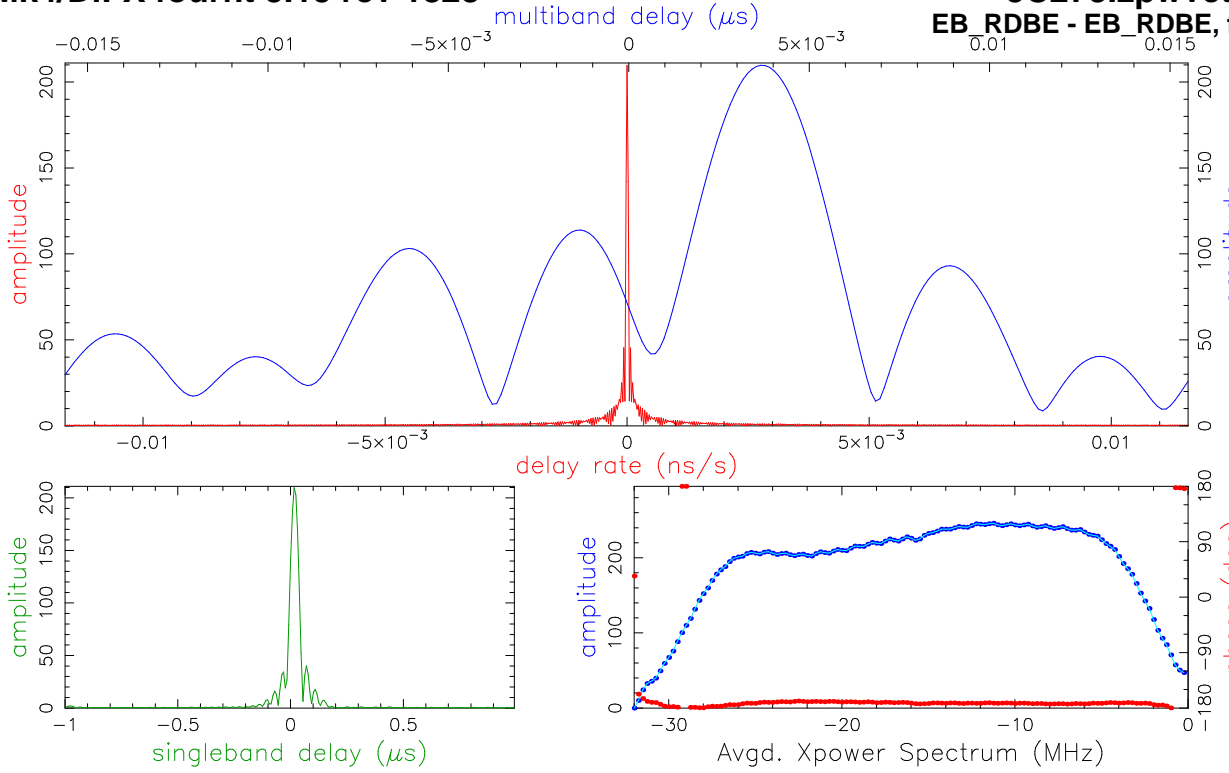
Fringe quality 5
 SNR 6315.7
 Int time 239.446
 Amp 211.074
 Phase -106.8
 PFD 0.0e+00
 Delays (us)
 SBD -0.017856
 MBD -0.003686
 Fringe rate (Hz)
 -0.000014
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022915
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6975s
 +2° 03' 8.598"

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



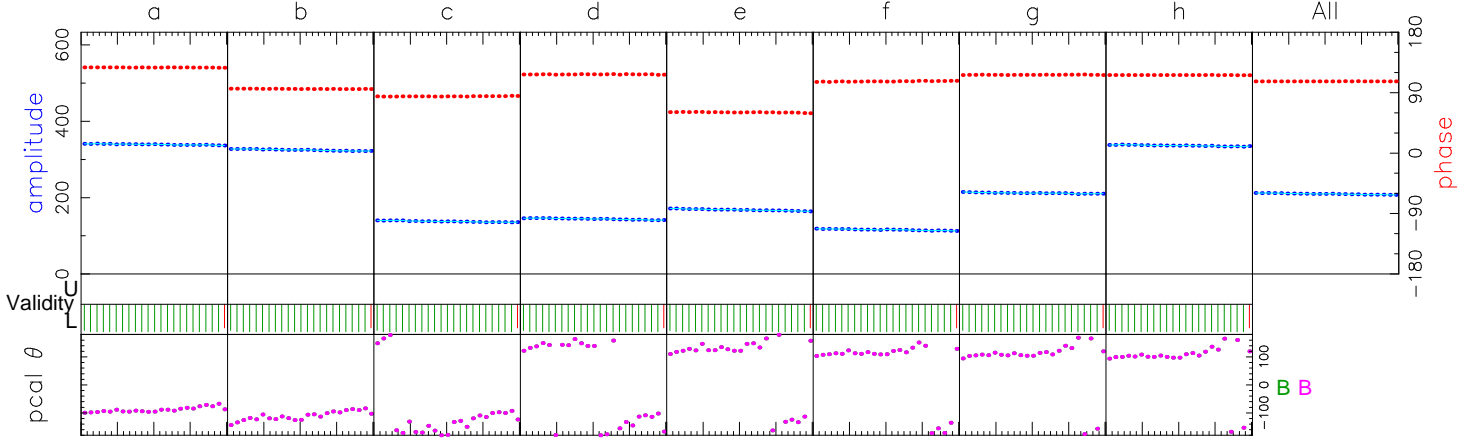
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-127.4	-95.6	-84.5	-117.1	-60.6	-106.8	-116.5	-116.1	Phase	-106.8
	339.2	324.8	137.8	144.0	168.0	115.9	212.0	336.3	Ampl.	222.2
	126.8	127.2	125.9	126.8	127.0	126.0	127.2	126.8	Sbd box	126.7
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.68637500000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-3.68637E-03	+/- 3.4E-07
Sband delay (usec)	-1.78555000000E-02		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-1.78555E-02	+/- 2.7E-06
Phase delay (usec)	-3.44251538569E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-3.44252E-06	+/- 5.9E-10
Delay rate (us/s)	-1.62526120269E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-1.62526E-10	+/- 4.2E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-106.8	+/- 0.0

ph/seg (deg) 0.1 0.0 Theor. Amplitude 211.074 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.0 0.1 Search (1024X32) 208.471 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 24.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 43.0 0.0 Inc. seg. avg. 209.781 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. 222.239 ion window (TEC) 0.00 0.00



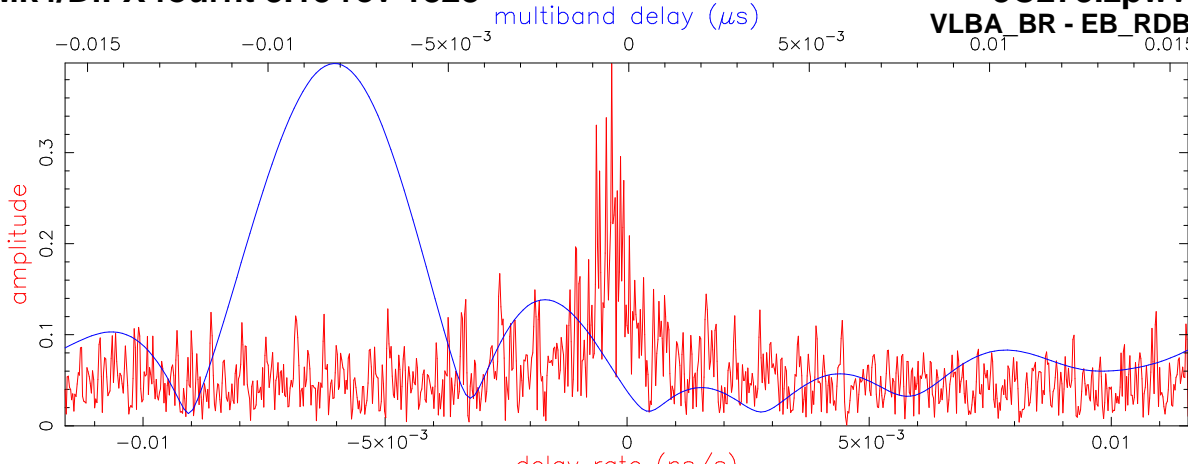
Fringe quality 5
 SNR 6315.7
 Int time 239.446
 Amp 211.074
 Phase 106.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.017856
 MBD 0.003686
 Fringe rate (Hz)
 0.000014
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022916
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6975s
 +2° 03' 8.598"

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
	127.4	95.6	84.5	117.1	60.6	106.8	116.5	116.1	Phase	106.8
	339.2	324.8	137.8	144.0	168.0	115.9	212.0	336.3	Ampl.	222.2
	131.2	130.8	132.1	131.2	131.0	132.0	130.8	131.2	Sbd box	131.3
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	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.68637500000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		3.68637E-03	+/- 3.4E-07
Sband delay (usec)	1.78555000000E-02		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		1.78555E-02	+/- 2.7E-06
Phase delay (usec)	3.44251538583E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		3.44252E-06	+/- 5.9E-10
Delay rate (us/s)	1.62526120269E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		1.62526E-10	+/- 4.2E-12
Total phase (deg)	106.8		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		106.8	+/- 0.0

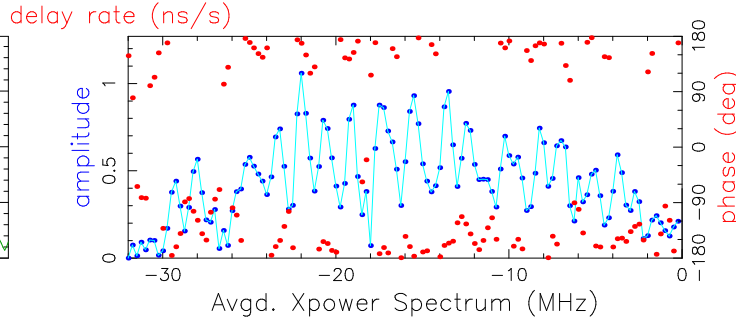
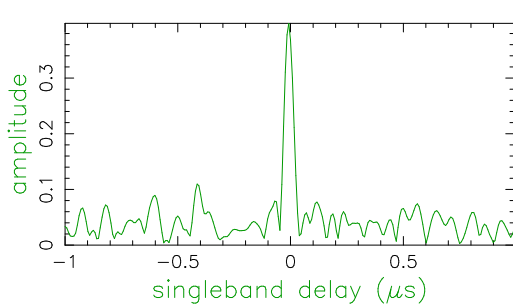
ph/seg (deg) 0.1 0.0 Search (1024X32) 208.471 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.0 0.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 24.0 0.0 Inc. seg. avg. 209.781 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 43.0 0.0 Inc. frq. avg. 222.239 Data rate (Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 B: az 262.0 el 9.0 pa 39.1 B: az 262.0 el 9.0 pa 39.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/BB.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/BB.W.228.zpwwct



Fringe quality 9

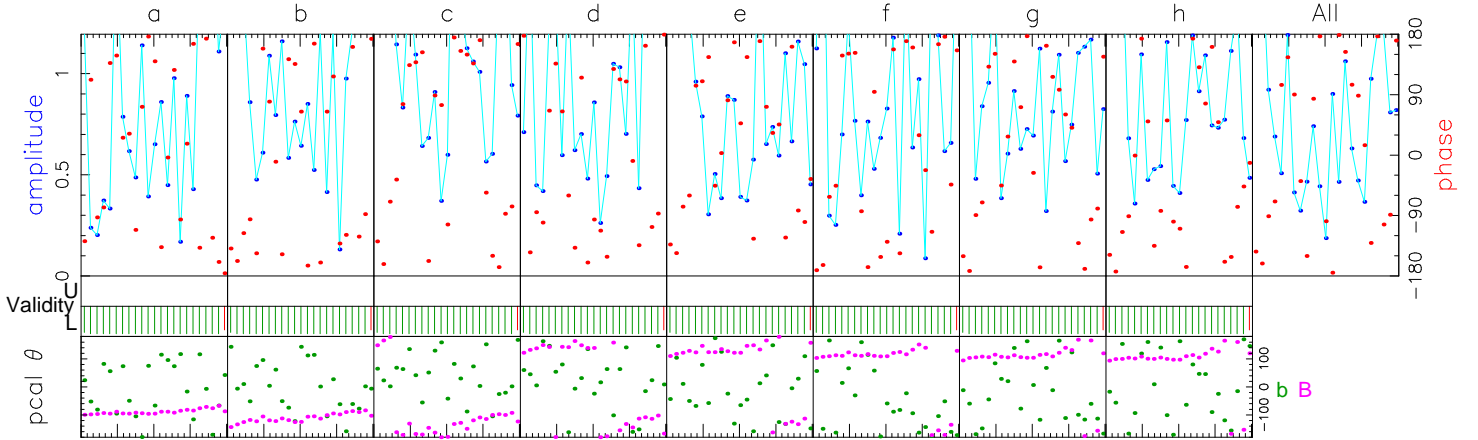
SNR 11.9
Int time 239.447
Amp 0.398
Phase -166.9
PFD 1.2e-24
Delays (us)
SBD -0.008589
MBD -0.008155
Fringe rate (Hz)
-0.026607
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022510
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2° 03' 8.598"



Avgd. Xpower Spectrum (MHz)

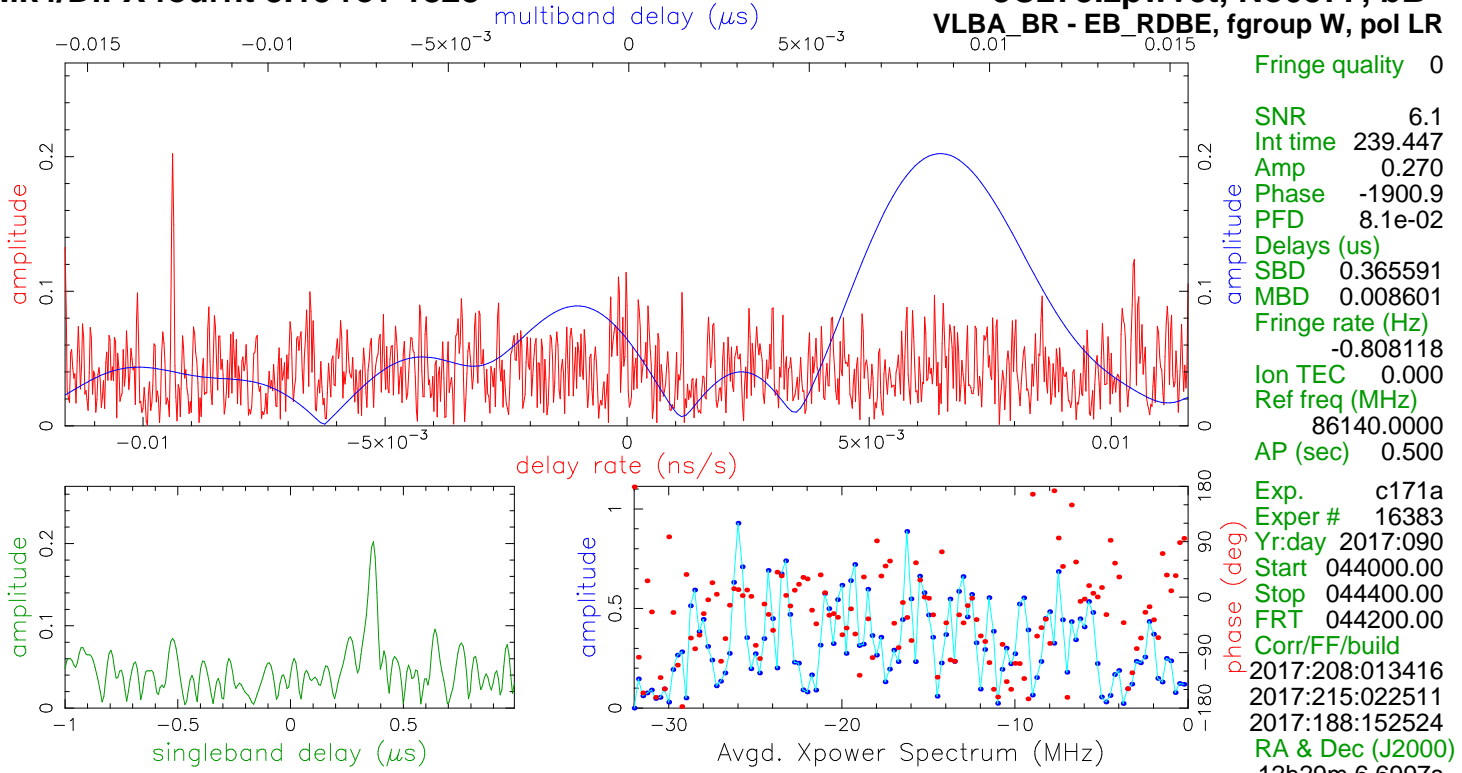
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



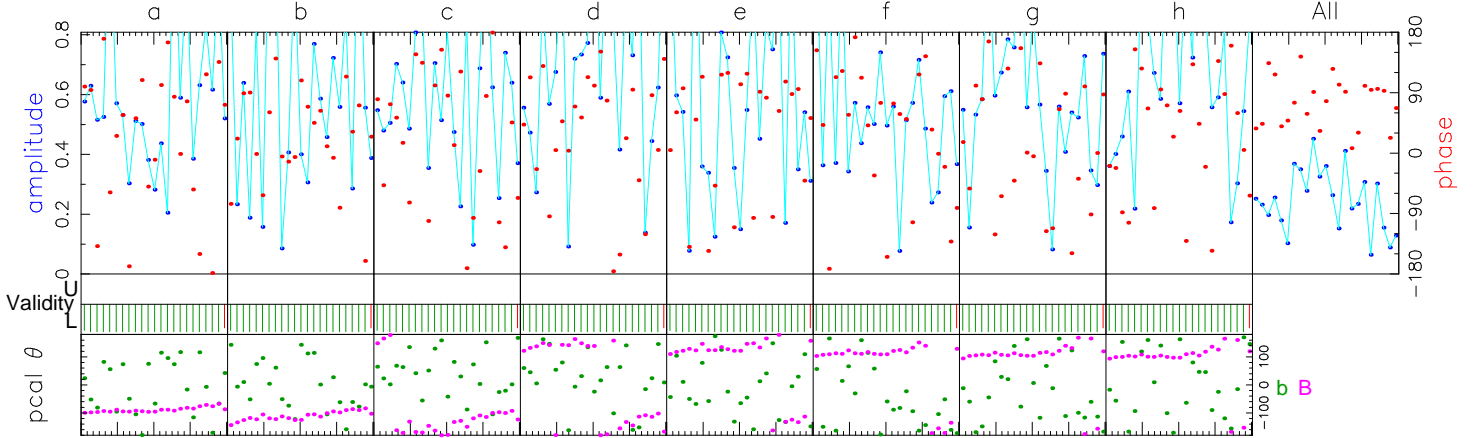
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-174.1	-161.1	-169.8	-165.4	-139.0	-177.7	175.8	-153.3	Phase	-166.9
	0.4	0.5	0.5	0.3	0.3	0.6	0.3	0.4	Ampl.	0.4
	127.8	127.9	127.9	50.8	75.4	128.9	126.8	128.7	Sbd box	127.9
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.80447201858E+03		Apriori delay (usec)		6.80448017340E+03		Resid mbdelay (usec)		-8.15483E-03	+/- 1.8E-04
Sband delay (usec)	6.80447158490E+03		Apriori clock (usec)		-3.3204369E+01		Resid sbdelay (usec)		-8.58850E-03	+/- 1.4E-03
Phase delay (usec)	6.80448016802E+03		Apriori clockrate (us/s)		3.7026890E-08		Resid phdelay (usec)		-5.38311E-06	+/- 3.1E-07
Delay rate (us/s)	1.73808182024E+00		Apriori rate (us/s)		1.73808212913E+00		Resid rate (us/s)		-3.08885E-07	+/- 2.2E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.64571948783E-05		Resid phase (deg)		-166.9	+/- 9.6

RMS Theor. Amplitude 0.398 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 76.9 23.1 Search (1024X32) 0.363 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 130.3 40.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 15.7 13.6 Inc. seg. avg. 0.711 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 26.0 23.7 Inc. frq. avg. 0.396 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 122.2 el 27.9 pa -34.4 B: az 262.0 el 9.0 pa 39.1 u,v (fr/asec) -9984.394 -334.226 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/bB.zpwvct Output file: /Exps/c171a/gmva/1234/No0577/bB.W.2.zpwvct



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



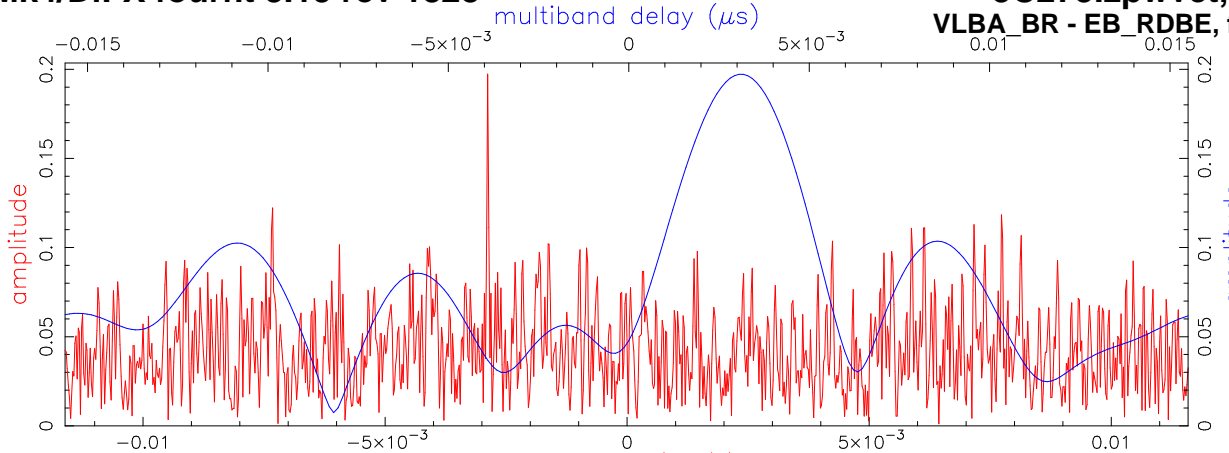
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
94.9	45.9	99.9	78.5	74.2	118.4	95.5	53.3		Phase	79.1
0.3	0.4	0.2	0.4	0.4	0.2	0.1	0.2		Ampl.	0.3
79.1	56.9	30.0	175.8	105.5	88.9	68.3	225.6		Sbd box	175.8
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480		APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000		PC freqs	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000		PC phase	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0		ManI PC	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC amp	
b	1000	1000	1000	1000	1000	1000	1000		Chan ids	
B	1000	1000	1000	1000	1000	1000	1000		Tracks	
b	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

Group delay (usec)(sbd)	6.80483252475E+03	Apriori delay (usec)	6.80448017340E+03	Resid mbdelay (usec)	8.60135E-03	+/-	3.6E-04
Sband delay (usec)	6.80484576390E+03	Apriori clock (usec)	-3.3204369E+01	Resid sbdelay (usec)	3.65591E-01	+/-	2.8E-03
Phase delay (usec)	6.80448017595E+03	Apriori clockrate (us/s)	3.7026890E-08	Resid phdelay (usec)	2.54970E-06	+/-	6.1E-07
Delay rate (us/s)	1.73807274768E+00	Apriori rate (us/s)	1.73808212913E+00	Resid rate (us/s)	-9.38145E-06	+/-	4.4E-09
Total phase (deg)	-1851.6	Apriori accel (us/s/s)	-3.64571948783E-05	Resid phase (deg)	-1900.9	+/-	18.9

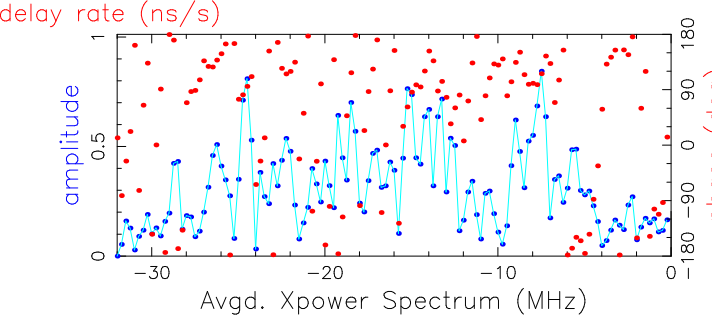
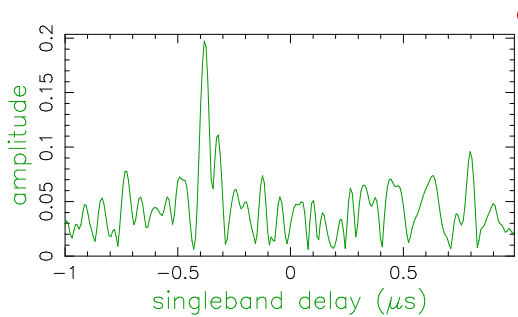
ph/seg (deg)	37.2	Theor.	45.3	Amplitude	0.270 +/- 0.044	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	55.1	Search (1024X32)	0.196	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	26.8	Inc. seg. avg.	0.251	Inc. frq. avg.	0.262	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	36.3	Inc. frq. avg.	0.262			Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
						Data rate(Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	ion window (TEC)	0.00 0.00

b: az 122.2 el 27.9 pa -34.4 B: az 262.0 el 9.0 pa 39.1 u,v (fr/asec) -9984.394 -334.226 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/bB.zpwvct Output file: /Exps/c171a/gmva/1234/No0577/bB.W.3.zpwvct

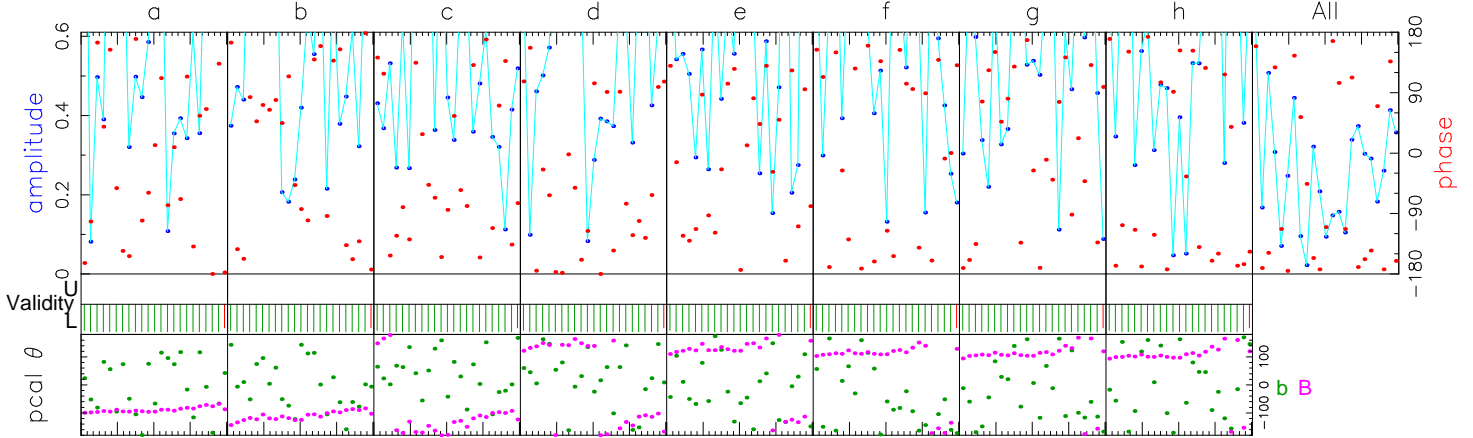


Fringe quality 0
 SNR 5.9
 Int time 239.447
 Amp 0.204
 Phase 2333.2
 PFD 1.7e-01
 Delays (us)
 SBD -0.380471
 MBD 0.003068
 Fringe rate (Hz)
 -0.248137
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022512
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2° 03' 8.598"

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

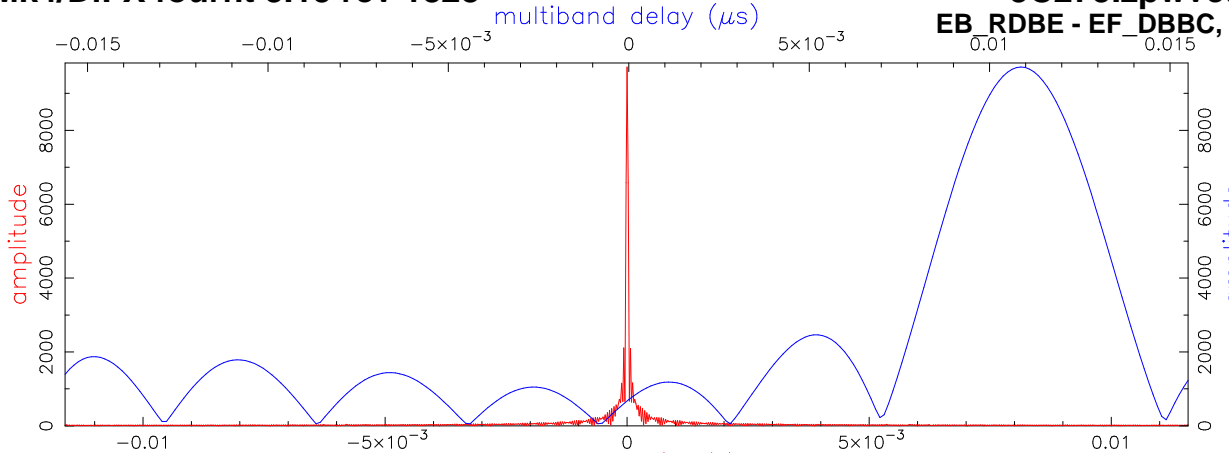


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	172.9	138.4	-120.1	-152.1	142.6	164.2	171.2	179.2	Phase	173.2
	0.2	0.2	0.2	0.2	0.1	0.4	0.1	0.4	Ampl.	0.2
	163.3	82.3	230.9	40.1	22.2	79.3	152.9	79.3	Sbd box	80.3
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
b	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

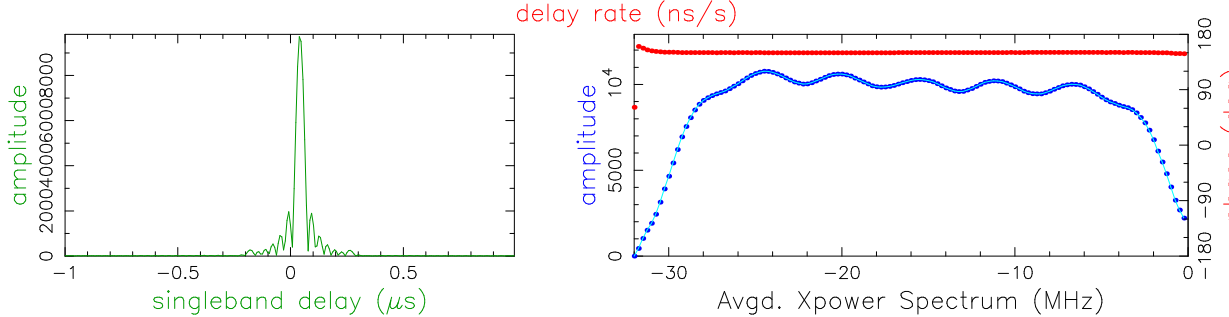
Group delay (usec)(sbd) 6.80410824151E+03 Apriori delay (usec) 6.80448017340E+03 Resid mbdelay (usec) 3.06811E-03 +/- 3.7E-04
 Sband delay (usec) 6.80409970190E+03 Apriori clock (usec) -3.3204369E+01 Resid sbdelay (usec) -3.80471E-01 +/- 2.9E-03
 Phase delay (usec) 6.80448017899E+03 Apriori clockrate (us/s) 3.7026890E-08 Resid phdelay (usec) 5.58623E-06 +/- 6.2E-07
 Delay rate (us/s) 1.73807924851E+00 Apriori rate (us/s) 1.73808212913E+00 Resid rate (us/s) -2.88062E-06 +/- 4.5E-09
 Total phase (deg) 2382.6 Apriori accel (us/s/s) -3.64571948783E-05 Resid phase (deg) 2333.2 +/- 19.3

RMS Theor. Amplitude 0.204 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 59.6 46.3 Search (1024X32) 0.190 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 80.7 80.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 36.3 27.3 Inc. seg. avg. 0.202 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 51.0 47.6 Inc. frq. avg. 0.204 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 122.2 el 27.9 pa -34.4 B: az 262.0 el 9.0 pa 39.1 u,v (fr/asec) -9984.394 -334.226 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/bB.zpwvct Output file: /Exps/c171a/gmva/1234/No0577/bB.W.4.zpwvct

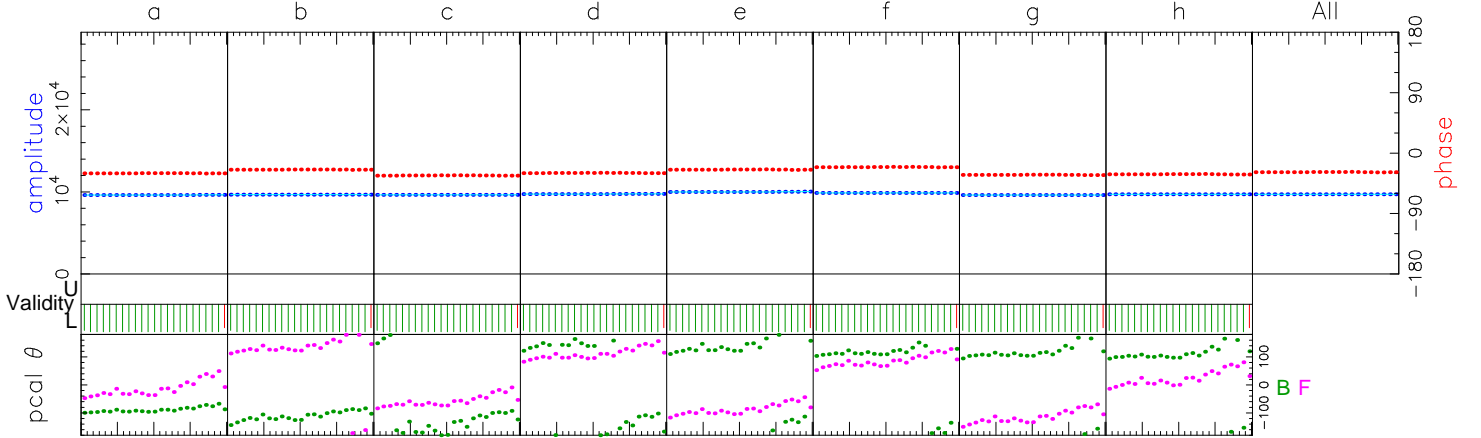


Fringe quality 9
SNR 293942.8
Int time 239.429
Amp 9824.081
Phase -208.3
PFD 0.0e+00
Delays (us)
SBD 0.041922
MBD 0.010876
Fringe rate (Hz)
-0.000005
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500



Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022552
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2°03' 8.598"

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



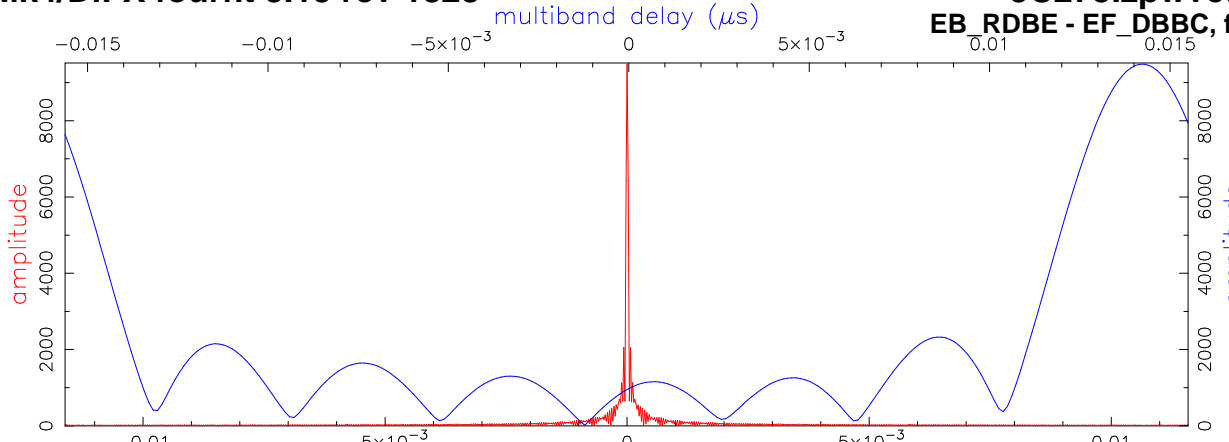
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
B:F	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:F	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
F	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
F	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Group delay (usec)(sbd)		4.82126312500E-01		Apriori delay (usec)	4.40000000000E-01	Resid mbdelay (usec)	1.08763E-02	+/-	7.4E-09	
Sband delay (usec)		4.81922500000E-01		Apriori clock (usec)	4.4000244E-01	Resid sbdelay (usec)	4.19225E-02	+/-	5.9E-08	
Phase delay (usec)		4.39999086062E-01		Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-9.13938E-07	+/-	1.3E-11	
Delay rate (us/s)		-6.09472951010E-11		Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-6.09473E-11	+/-	9.1E-14	
Total phase (deg)		7.7		Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-208.3	+/-	0.0	

ph/seg (deg) 0.2 0.0
amp/seg (%) 1.1 0.0
ph/frq (deg) 4.8 0.0
amp/frq (%) 1.5 0.0

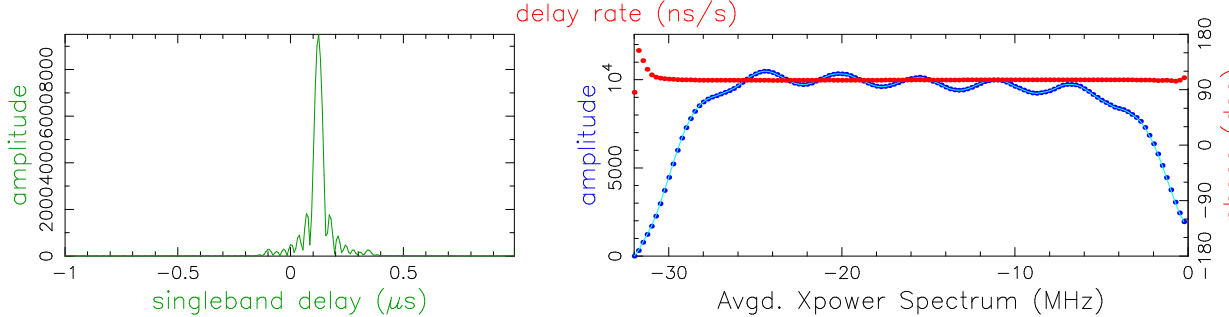
RMS Theor. Amplitude 9824.081 +/- 0.033
Search (1024X32) 9700.196
Interp. 0.000
Inc. seg. avg. 9716.990
Inc. frq. avg. 9743.022

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

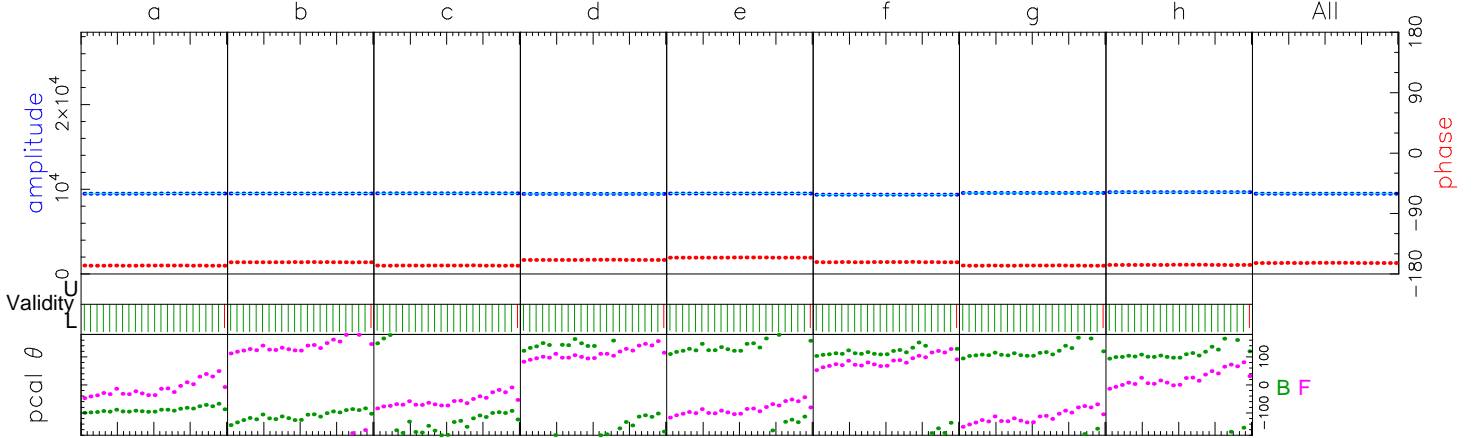
sb window (us) -1.000 1.000
mb window (us) -0.016 0.016
dr window (ns/s) -0.012 0.012
ion window (TEC) 0.00 0.00



Fringe quality 9
 SNR 284654.8
 Int time 239.429
 Amp 9513.658
 Phase -703.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.123466
 MBD 0.014233
 Fringe rate (Hz)
 -0.000003
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022553
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2°03' 8.598"



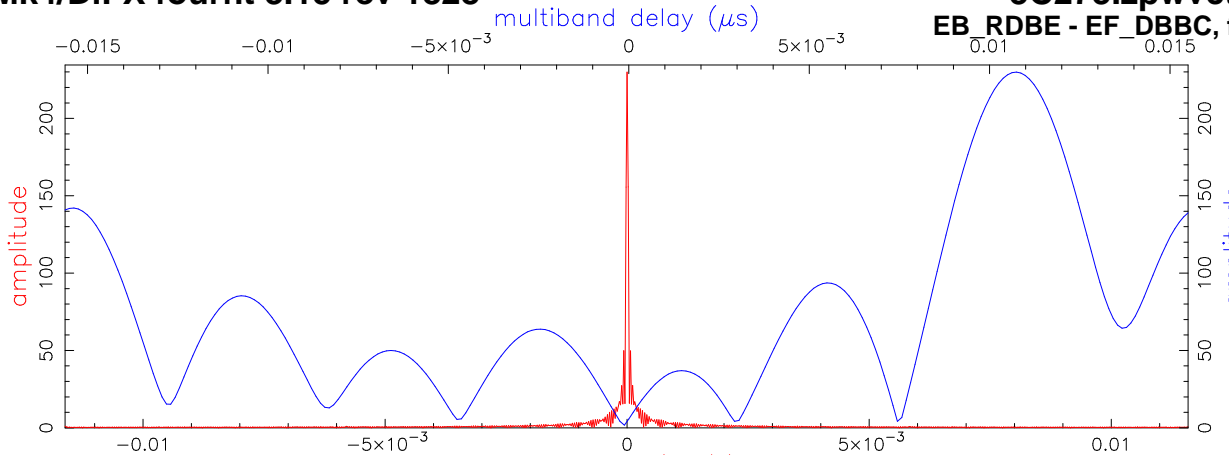
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



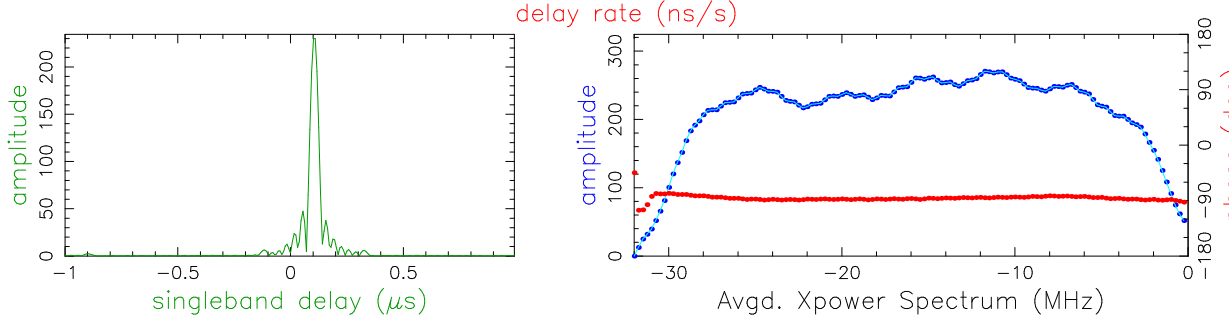
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-167.4	-162.4	-167.3	-158.9	-155.5	-162.3	-167.4	-166.4	Phase	-163.5
	9490.4	9505.5	9522.9	9464.5	9503.3	9369.7	9566.8	9654.5	Ampl.	9509.7
	144.8	144.8	144.9	144.9	144.9	144.6	144.9	144.7	Sbd box	144.8
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:F	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:F	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
F	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.47982562500E-01		Apriori delay (usec)		4.40000000000E-01		Resid mbdelay (usec)		1.42326E-02	+/- 7.6E-09
Sband delay (usec)	5.63466500000E-01		Apriori clock (usec)		4.4000244E-01		Resid sbdelay (usec)		1.23466E-01	+/- 6.1E-08
Phase delay (usec)	4.39994728083E-01		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-5.27192E-06	+/- 1.3E-11
Delay rate (us/s)	-3.48270257720E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-3.48270E-11	+/- 9.4E-14
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-703.5	+/- 0.0

RMS Theor. Amplitude 9513.657 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.1 0.0 Search (1024X32) 9310.301 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.3 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 4.9 0.0 Inc. seg. avg. 9484.163 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 0.8 0.0 Inc. frq. avg. 9509.695 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

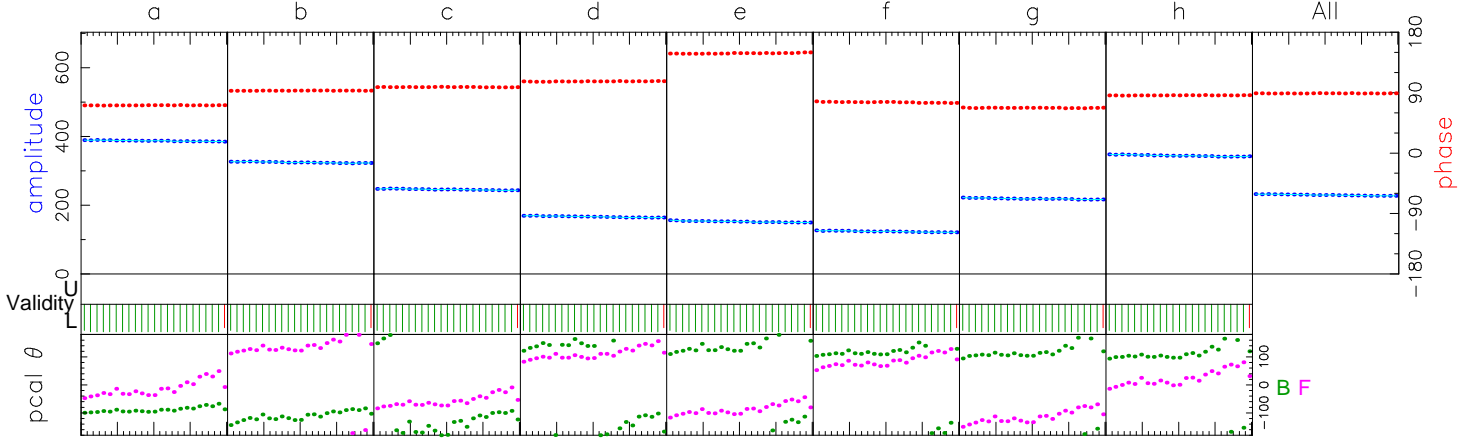
B: az 262.0 el 9.0 pa 39.1 F: az 262.0 el 9.0 pa 39.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: ./cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/BF.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/BF.W.42.zpwwct



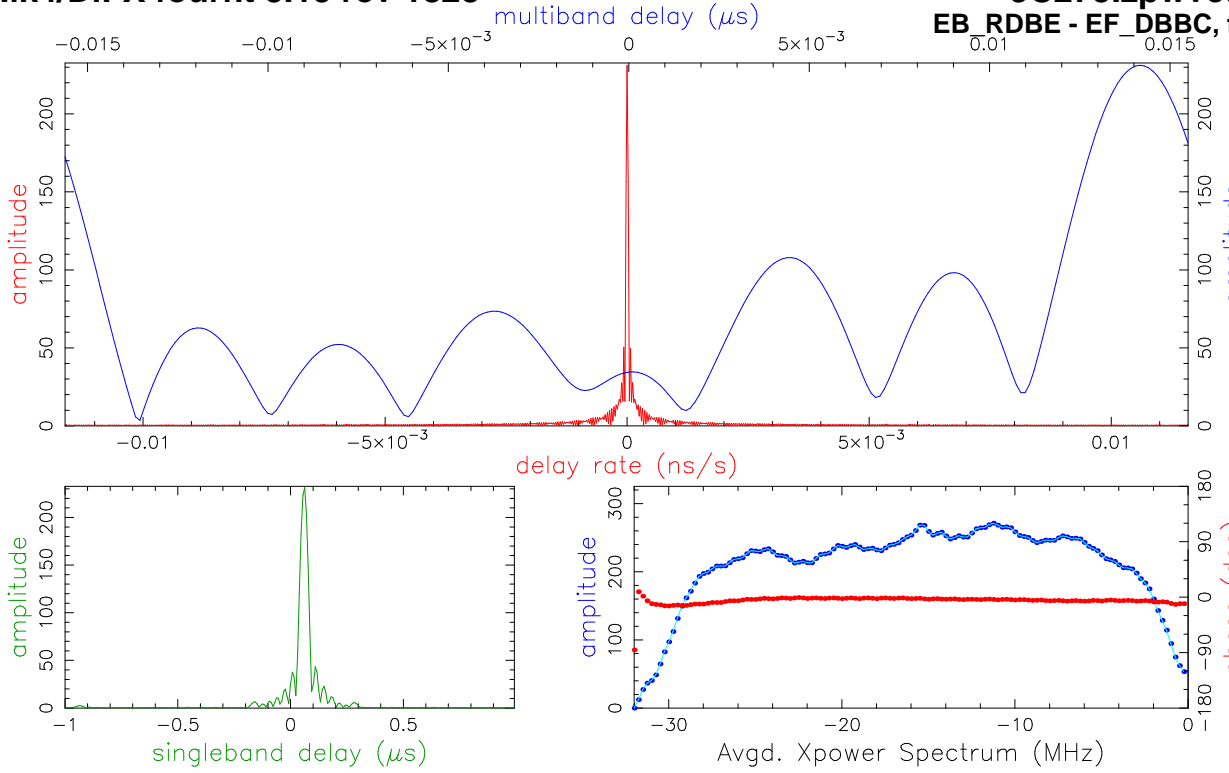
Fringe quality 6
 SNR 7017.0
 Int time 239.429
 Amp 234.521
 Phase -451.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.105471
 MBD 0.010718
 Fringe rate (Hz)
 -0.000014
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022554
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2° 03' 8.598"



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



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:F	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:F	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
F	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
F	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.44467687500E-01		Apriori delay (usec)		4.40000000000E-01		Resid mbdelay (usec)		1.07177E-02	+/- 3.1E-07
Sband delay (usec)	5.45471000000E-01		Apriori clock (usec)		4.4000244E-01		Resid sbdelay (usec)		1.05471E-01	+/- 2.5E-06
Phase delay (usec)	4.40002866281E-01		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		2.86628E-06	+/- 5.3E-10
Delay rate (us/s)	-1.62526120269E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-1.62526E-10	+/- 3.8E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-451.1	+/- 0.0
ph/seg (deg)	RMS 0.1	Theor. 0.0	Amplitude 234.521 +/- 0.033	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000	1.000
amp/seg (%)	2.1	0.1	Search (1024X32) 229.889	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.016	0.016
ph/frq (deg)	28.7	0.0	Interp. 0.000	Bits/sample: 2x2		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012	0.012
amp/frq (%)	39.2	0.0	Inc. seg. avg. 229.894	Data rate(Mb/s): 1024		nlags: 128 t_cohere infinite		ion window (TEC)	0.00	0.00
			Inc. frq. avg. 245.536	u,v (fr/asec) 0.000 0.000				simultaneous interpolator		

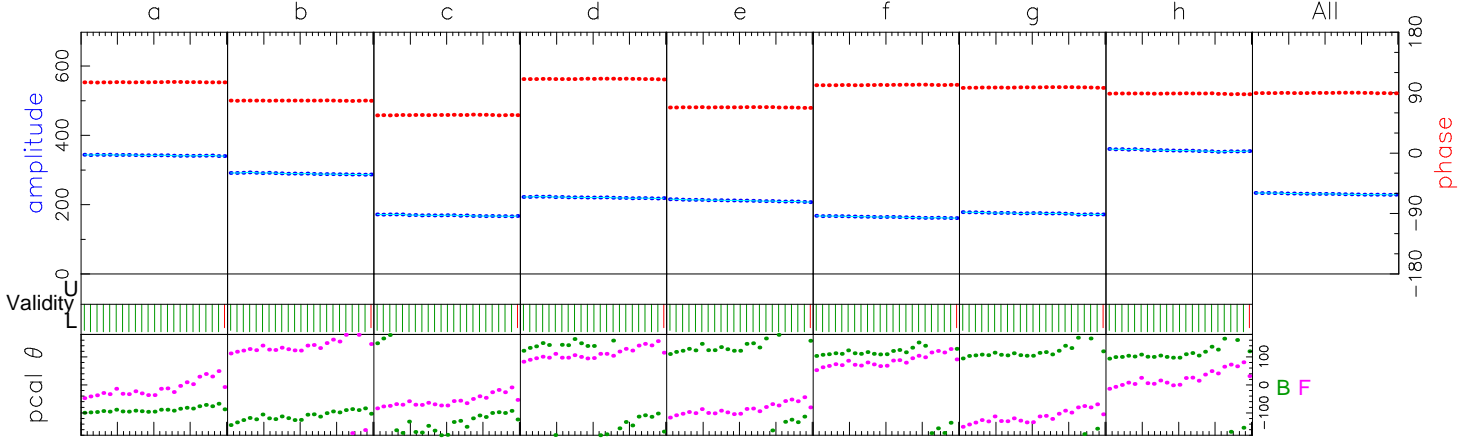


Fringe quality 7

SNR 6961.5
Int time 239.429
Amp 232.665
Phase -90.6
PFD 0.0e+00
Delays (us)
SBD 0.060296
MBD 0.014185
Fringe rate (Hz) 0.000007
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022555
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2° 03' 8.598"

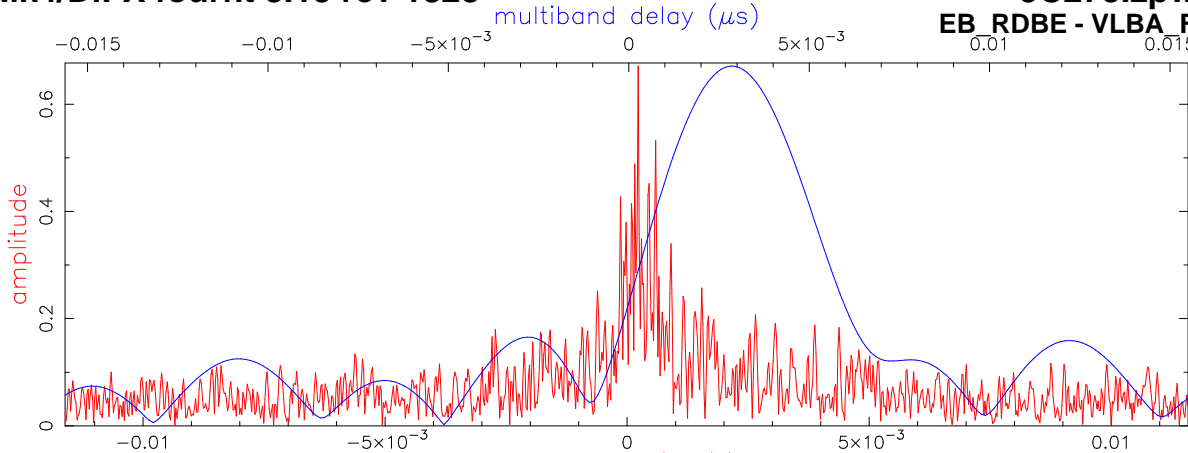
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



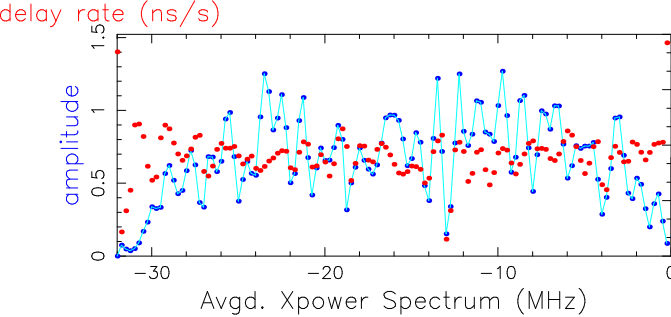
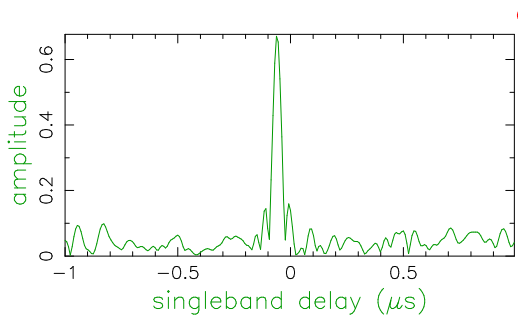
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
F	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:F	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase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

Group delay (usec)(sbd) 4.85434812500E-01 Apriori delay (usec) 4.40000000000E-01 Resid mbdelay (usec) 1.41848E-02 +/- 3.1E-07
 Sband delay (usec) 5.00296000000E-01 Apriori clock (usec) 4.4000244E-01 Resid sbdelay (usec) 6.02960E-02 +/- 2.5E-06
 Phase delay (usec) 4.40002884408E-01 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 2.88441E-06 +/- 5.3E-10
 Delay rate (us/s) 8.27141862085E-11 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) 8.27142E-11 +/- 3.8E-12
 Total phase (deg) 125.4 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) -90.6 +/- 0.0

RMS Theor. Amplitude 232.665 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.2 0.0 Search (1024X32) 224.363 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 1.0 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 20.7 0.0 Inc. seg. avg. 231.206 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 31.6 0.0 Inc. frq. avg. 241.254 ion window (TEC) 0.00 0.00

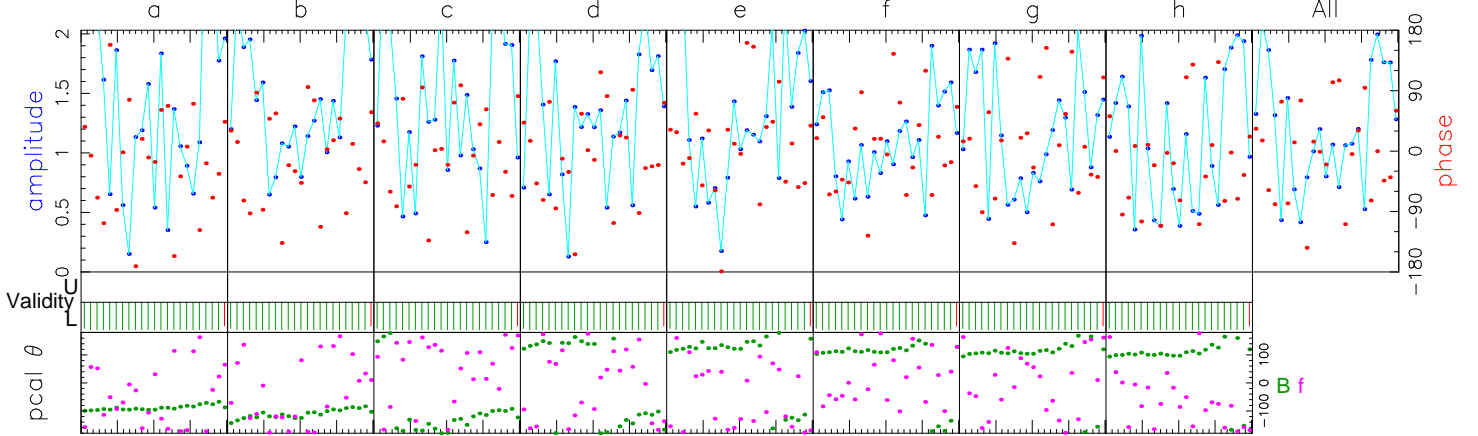


Fringe quality 9
SNR 20.2
Int time 239.447
Amp 0.677
Phase 345.3
PFD 0.0e+00
Delays (us)
SBD -0.059948
MBD 0.002870
Fringe rate (Hz) 0.020224
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500



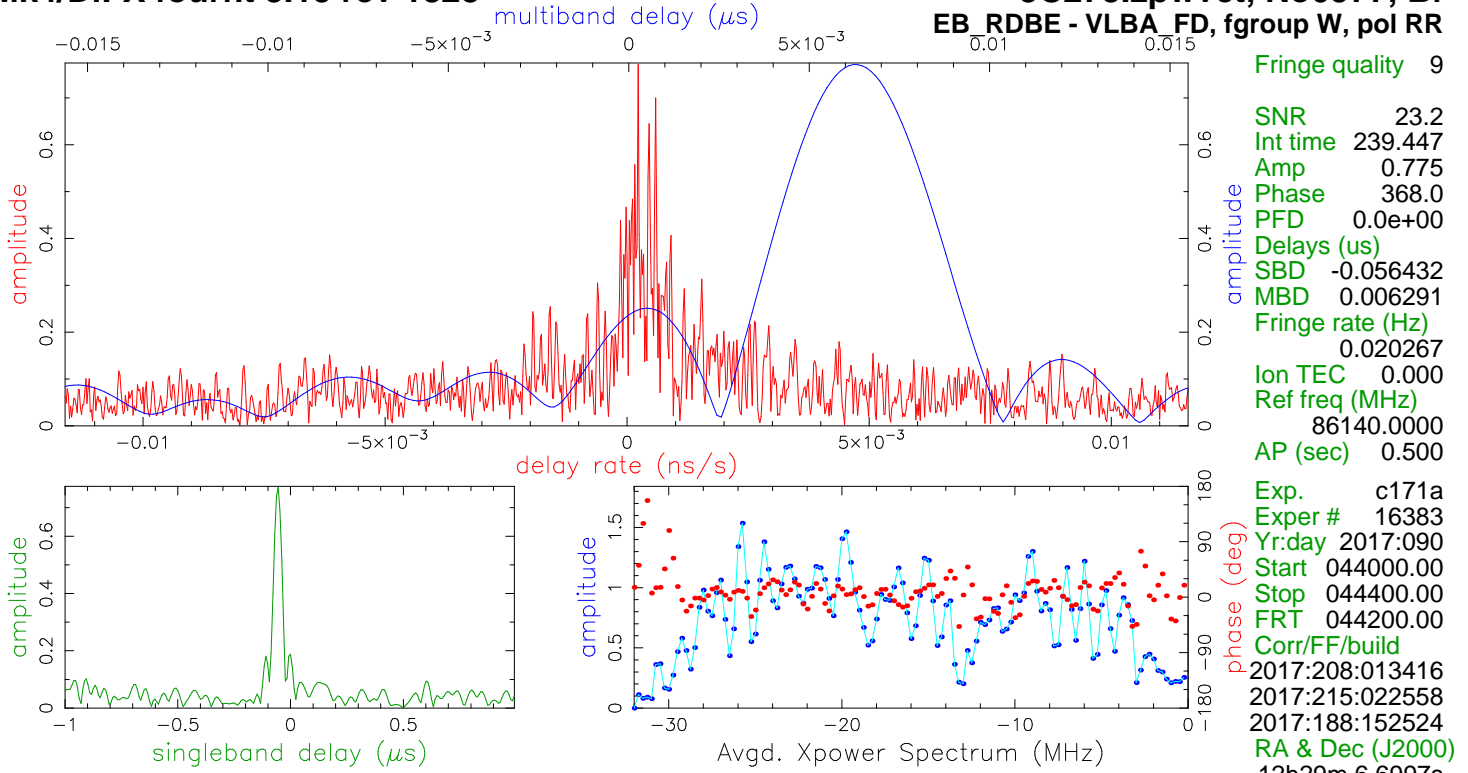
Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022557
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2° 03' 8.598"

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

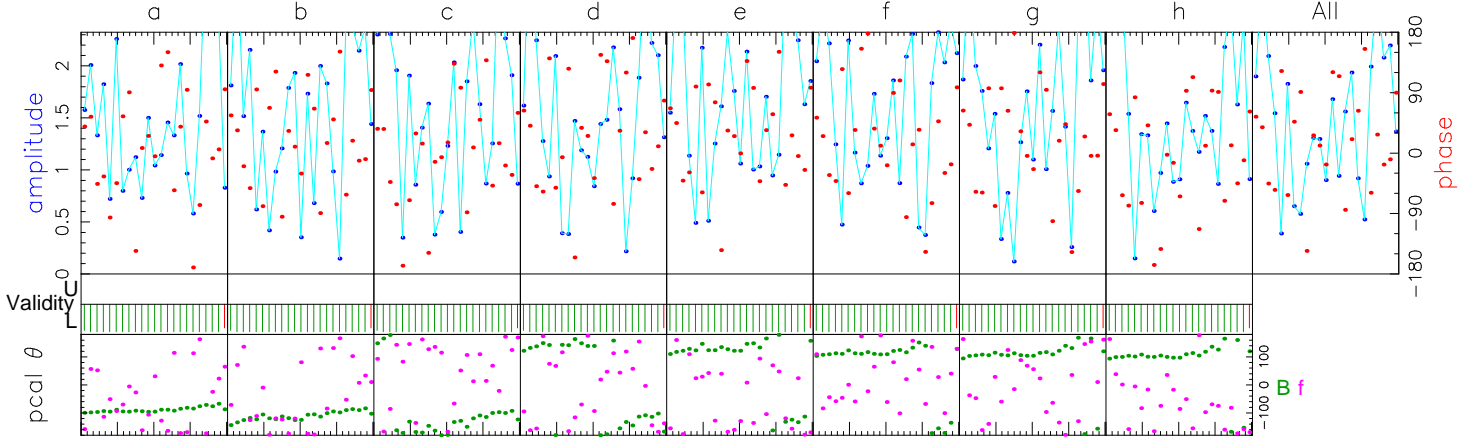


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480			
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000			
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000			
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
B	1000	1000	1000	1000	1000	1000	1000	1000			
f	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL			
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL			
Group delay (usec)(sbd)		-1.26112935072E+04			-1.26112338770E+04				2.86978E-03	+/- 1.1E-04	
Sband delay (usec)		-1.26112938250E+04			2.9493401E+01				-5.99480E-02	+/- 8.5E-04	
Phase delay (usec)		-1.26112338775E+04			3.9640749E-07				-4.74541E-07	+/- 1.8E-07	
Delay rate (us/s)		-1.67997798496E+00			-1.67997821975E+00				2.34783E-07	+/- 1.3E-09	
Total phase (deg)			286.4		6.82196421581E-05				345.3	+/- 5.7	
	RMS	Theor.	Amplitude	0.677 +/- 0.033	Pcal mode: MANUAL, MANUAL				PC period (AP's) 5, 5		
ph/seg (deg)	68.9	13.6	Search (1024X32)	0.624	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000 1.000	
amp/seg (%)	106.1	23.7	Interp.	0.000	Bits/sample: 2x2				SampCntNorm: enabled	mb window (us)	-0.016 0.016
ph/frq (deg)	13.5	8.0	Inc. seg. avg.	1.169	Sample rate(MSamp/s): 64				ion window (TEC)	-0.012 0.012	
amp/frq (%)	14.5	14.0	Inc. frq. avg.	0.679	Data rate(Mb/s): 1024				nlags: 128 t_cohere infinite	0.00 0.00	

B: az 262.0 el 9.0 pa 39.1 f: az 126.5 el 47.8 pa -43.9 u,v (fr/asec) 9673.708 2500.883 simultaneous interpolator
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Bf.zpwvct Output file: /Exps/c171a/gmva/1234/No0577/Bf.W.45.zpwvct



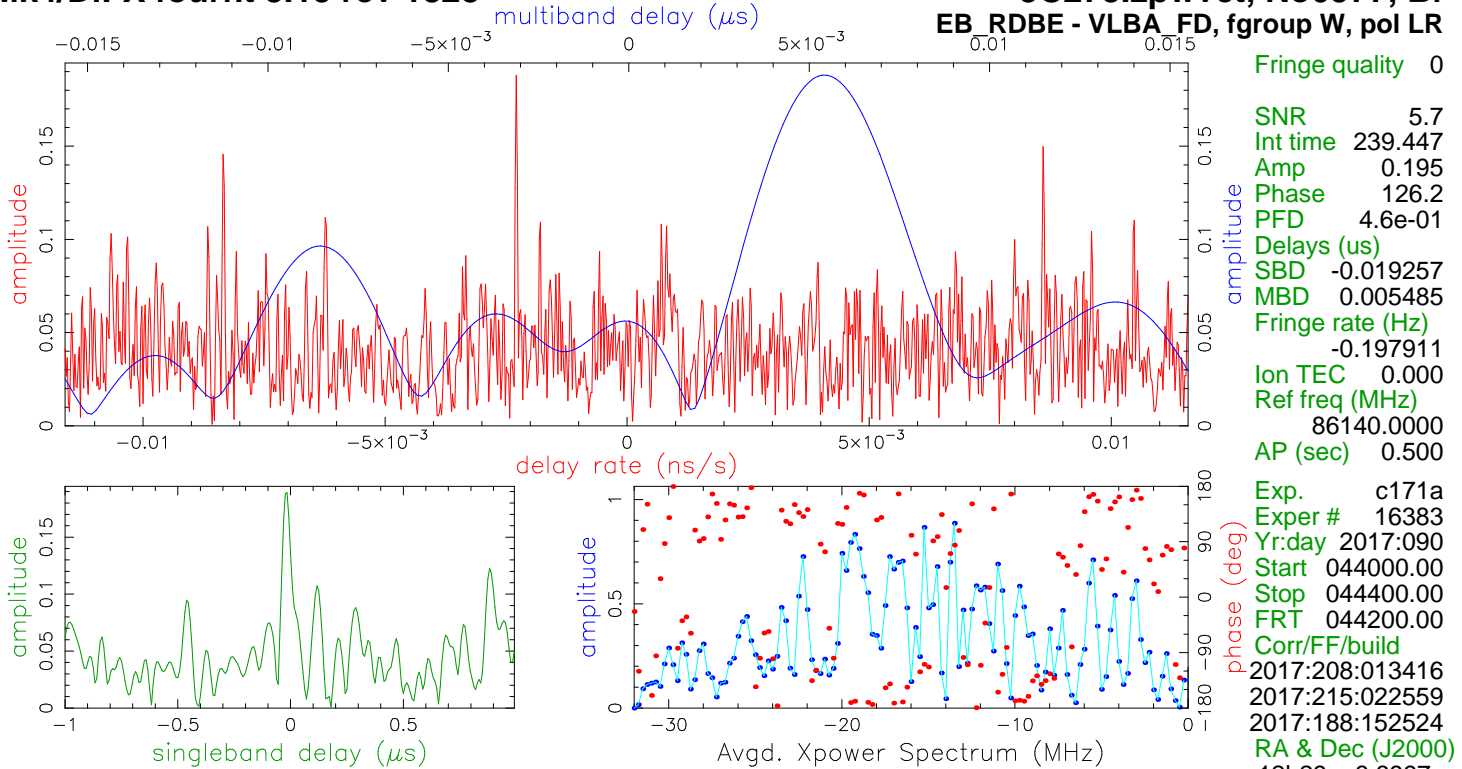
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



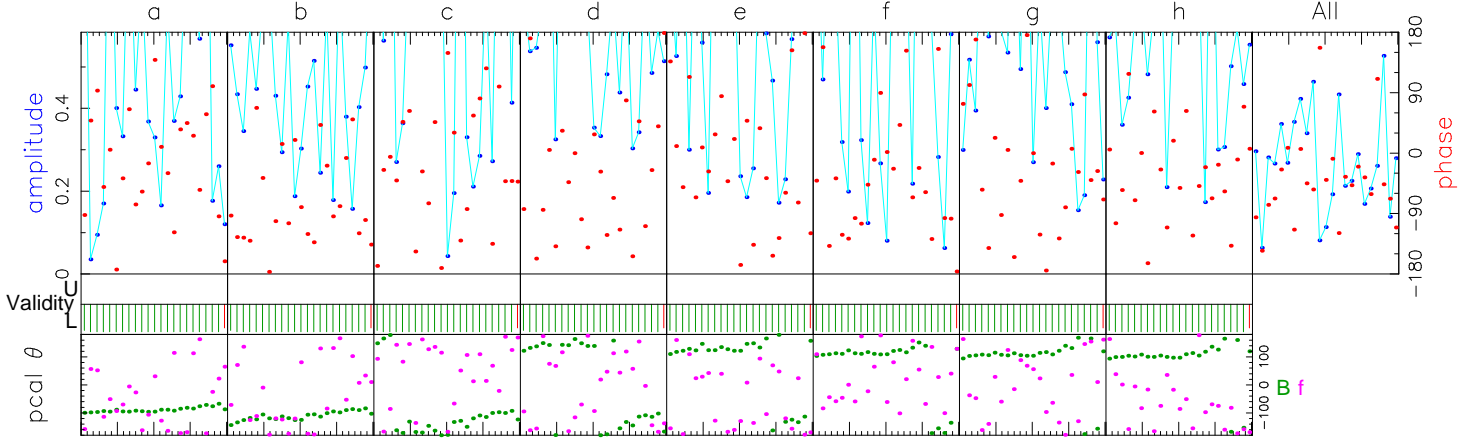
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
f	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
f	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)		-1.26112900863E+04				-1.26112338770E+04			6.29071E-03	+/- 9.4E-05
Sband delay (usec)		-1.26112903090E+04				2.9493401E+01			-5.64320E-02	+/- 7.4E-04
Phase delay (usec)		-1.26112338767E+04				3.9640749E-07			2.59437E-07	+/- 1.6E-07
Delay rate (us/s)		-1.67997798446E+00				-1.67997821975E+00			2.35284E-07	+/- 1.2E-09
Total phase (deg)			309.1						368.0	+/- 4.9
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode:	MANUAL	MANUAL							PC period (AP's)	5, 5
Pcal rate:	0.000E+00	0.000E+00							sb window (us)	-1.000 1.000
Bits/sample:	2x2								mb window (us)	-0.016 0.016
Sample rate(MSamp/s):	64								dr window (ns/s)	-0.012 0.012
Data rate(Mb/s):	1024								ion window (TEC)	0.00 0.00
nlags:	128									
t_cohere	infinite									

B: az 262.0 el 9.0 pa 39.1 f: az 126.5 el 47.8 pa -43.9 u,v (fr/asec) 9673.708 2500.883 simultaneous interpolator

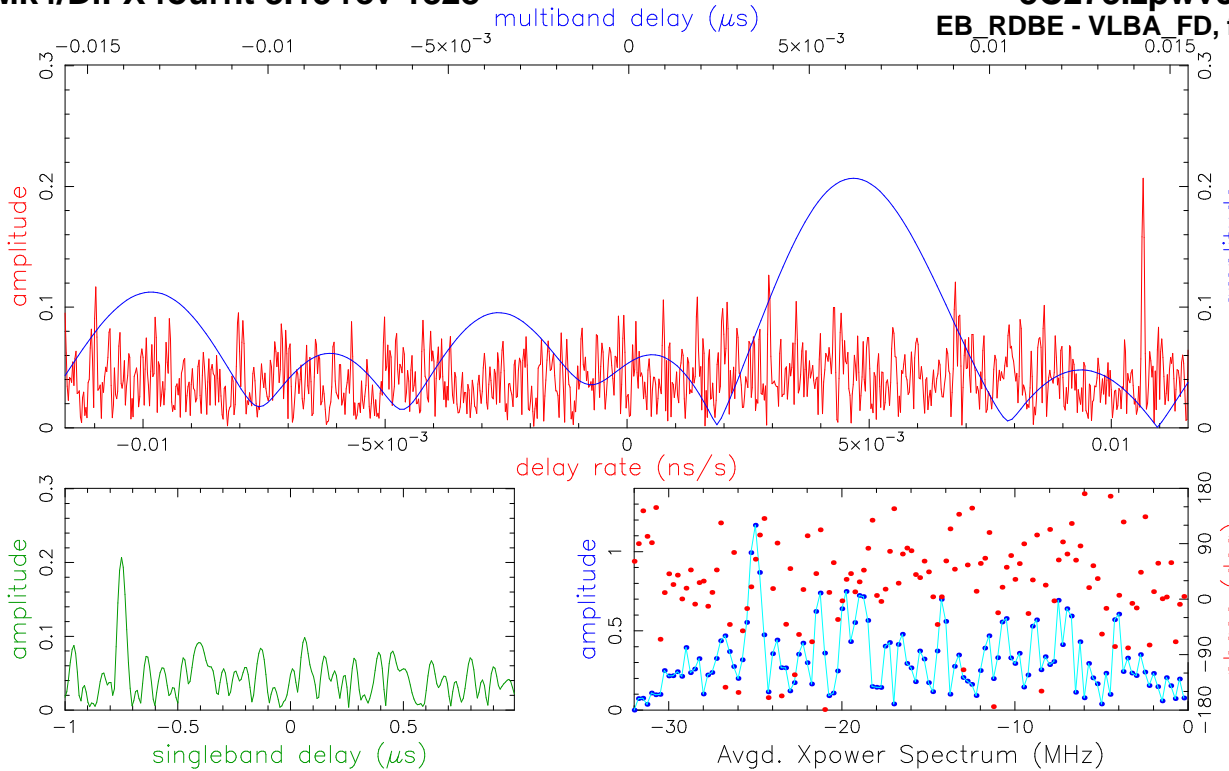
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Bf.zpwvct Output file: /Exps/c171a/gmva/1234/No0577/Bf.W.46.zpwvct



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	
-2.4	-95.7	-55.2	-59.8	-24.8	-73.0	-72.0	-35.4	Phase	-53.8	
0.2	0.3	0.2	0.2	0.1	0.3	0.2	0.3	Ampl.	0.2	
86.4	151.7	230.5	151.0	12.2	234.9	107.0	125.9	Sbd box	126.5	
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used		
B -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
f -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
B:f 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
B:f 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC		
B 1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
f 1000	1000	1000	1000	1000	1000	1000	1000			
B W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids		
f W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks		
								Chan ids		
								Tracks		
Group delay (usec)(sbd)	-1.26112596417E+04		Apriori delay (usec)	-1.26112338770E+04		Resid mbdelay (usec)	5.48527E-03	+/-	3.8E-04	
Sband delay (usec)	-1.26112531340E+04		Apriori clock (usec)	2.9493401E+01		Resid sbdelay (usec)	-1.92570E-02	+/-	3.0E-03	
Phase delay (usec)	-1.26112338787E+04		Apriori clockrate (us/s)	3.9640749E-07		Resid phdelay (usec)	-1.73615E-06	+/-	6.4E-07	
Delay rate (us/s)	-1.67998051729E+00		Apriori rate (us/s)	-1.67997821975E+00		Resid rate (us/s)	-2.29755E-06	+/-	4.7E-09	
Total phase (deg)		67.3	Apriori accel (us/s/s)	6.82196421581E-05		Resid phase (deg)	126.2	+/-	20.0	
RMS	Theor.	Amplitude	0.195 +/- 0.034	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000 1.000	
ph/seg (deg)	60.5	47.9	Search (1024X32)	0.179	Pcal rate:	0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016 0.016	
amp/seg (%)	75.1	83.7	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.012 0.012
ph/frq (deg)	32.4	28.3	Inc. seg. avg.	0.205	Sample rate(MSamp/s):	64	nlags:	128	t_cohere	infinite
amp/frq (%)	26.6	49.4	Inc. frq. avg.	0.194	Data rate(Mb/s):	1024	ion window (TEC)			0.00 0.00

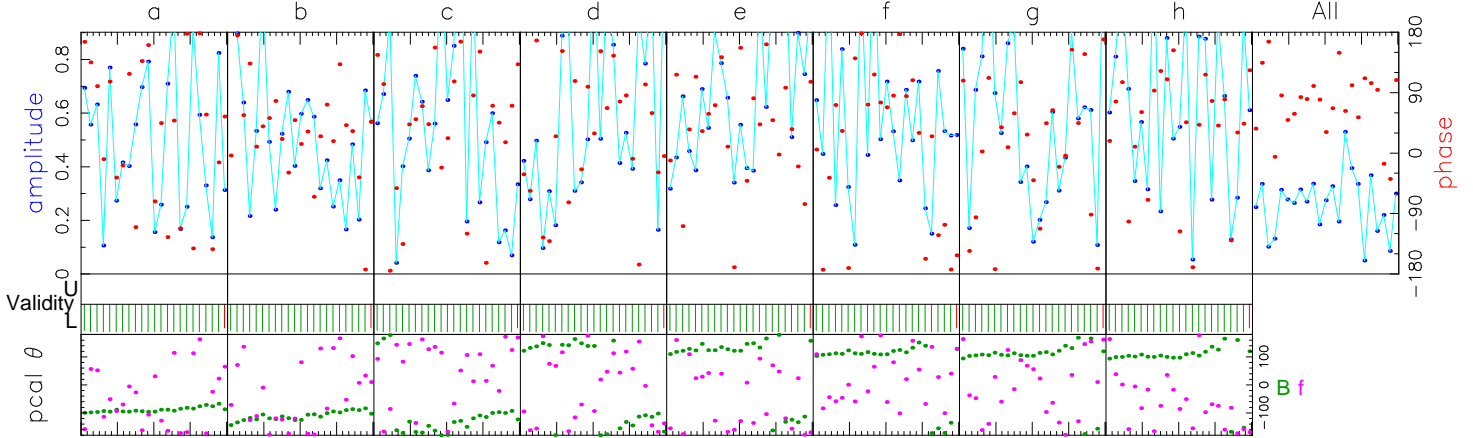


Fringe quality 0

SNR 6.2
Int time 239.447
Amp 0.301
Phase 4397.4
PFD 4.0e-02
Delays (us)
SBD -0.749551
MBD 0.006226
Fringe rate (Hz) 0.917828
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

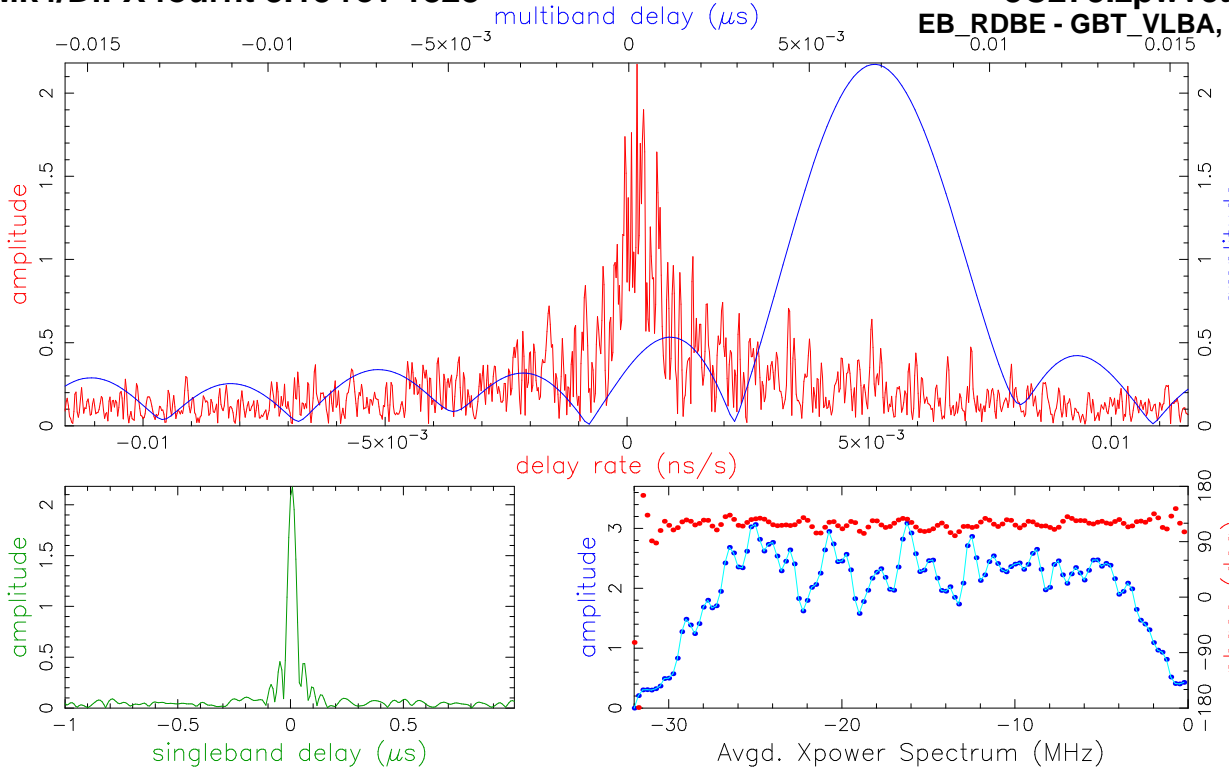
Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022559
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2° 03' 8.598"

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



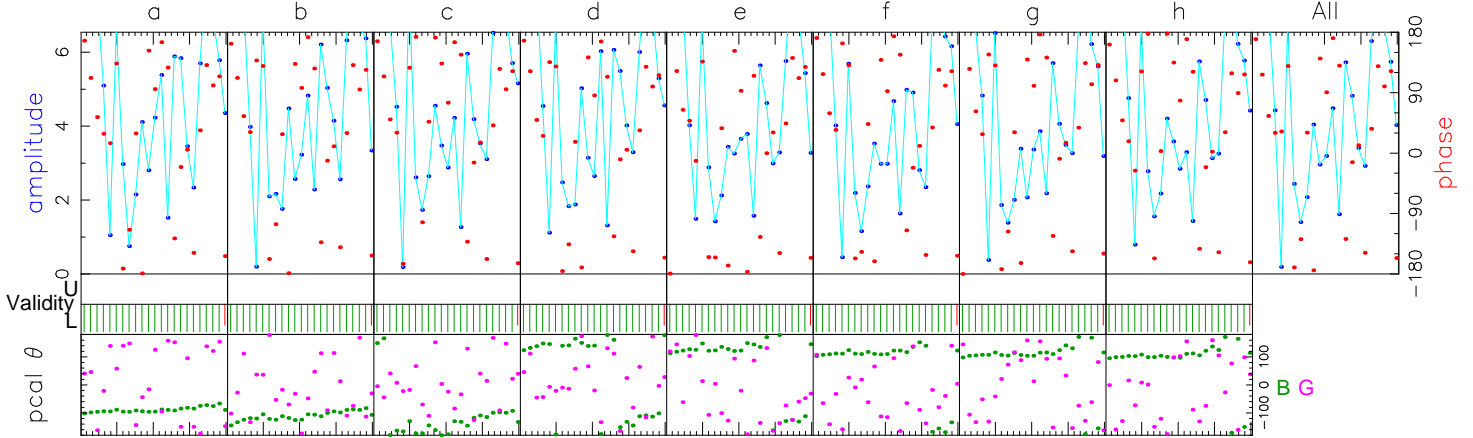
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	Ampl.	0.3
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	33.1
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
f	1000	1000	1000	1000	1000	1000	1000	1000	Manl PC	
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	PC amp	
f	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)		-1.26119776515E+04		Apriori delay (usec)		-1.26112338770E+04		Resid mbdelay (usec)	6.22552E-03	+/- 3.5E-04
Sband delay (usec)		-1.26119834275E+04		Apriori clock (usec)		2.9493401E+01		Resid sbdelay (usec)	-7.49551E-01	+/- 2.8E-03
Phase delay (usec)		-1.26112338745E+04		Apriori clockrate (us/s)		3.9640749E-07		Resid phdelay (usec)	2.49606E-06	+/- 6.0E-07
Delay rate (us/s)		-1.67996756468E+00		Apriori rate (us/s)		-1.67997821975E+00		Resid rate (us/s)	1.06551E-05	+/- 4.3E-09
Total phase (deg)			4338.5	Apriori accel (us/s/s)		6.82196421581E-05		Resid phase (deg)	4397.4	+/- 18.5

ph/seg (deg) 49.2 44.4 Search (1024X32) 0.204 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 58.9 77.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 36.9 26.2 Inc. seg. avg. 0.293 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 41.7 45.7 Inc. frq. avg. 0.310 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 B: az 262.0 el 9.0 pa 39.1 f: az 126.5 el 47.8 pa -43.9 u,v (fr/asec) 9673.708 2500.883 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Bf.zpwvct Output file: /Exps/c171a/gmva/1234/No0577/Bf.W.48.zpwvct



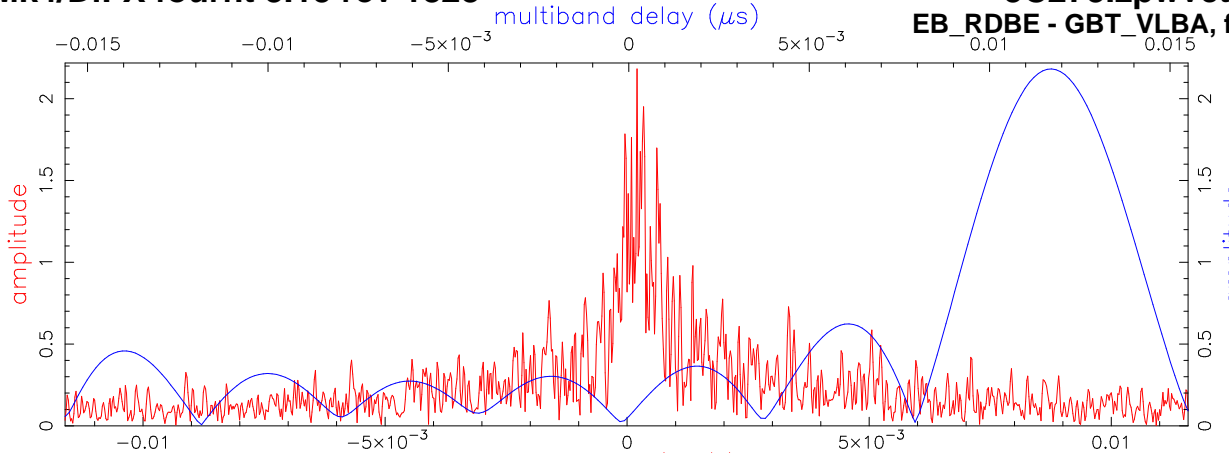
Fringe quality 5
 SNR 65.2
 Int time 238.927
 Amp 2.181
 Phase 121.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.006318
 MBD 0.006805
 Fringe rate (Hz) 0.016725
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044001.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022959
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2°03' 8.598"

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

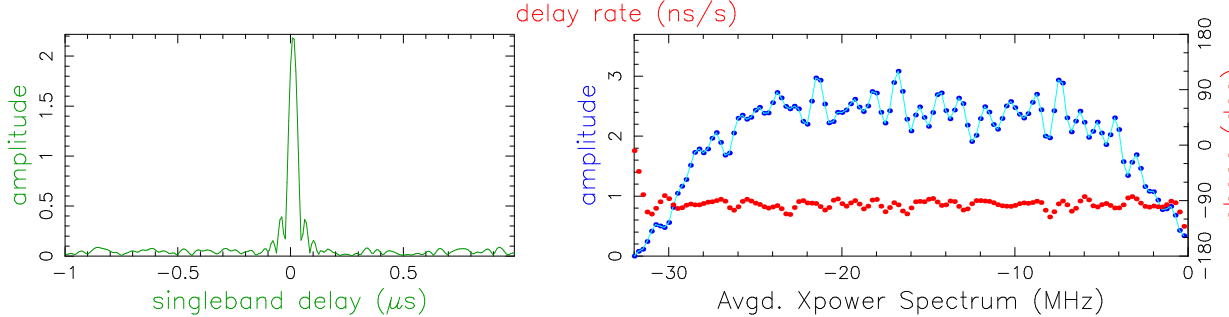


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	119.3	120.5	119.0	123.5	129.1	121.9	126.7	113.1	Phase	121.6
	2.2	2.2	2.4	2.1	2.3	2.1	2.1	2.1	Ampl.	2.2
	129.9	129.9	129.9	129.9	129.9	129.8	129.8	129.4	Sbd box	129.8
U/L	0/478	0/478	0/478	0/478	0/478	0/478	0/478	0/478	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.36956380505E+04		Apriori delay (usec)		-1.36956448552E+04		Resid mbdelay (usec)		6.80473E-03	+/- 3.3E-05
Sband delay (usec)	-1.36956385367E+04		Apriori clock (usec)		4.0003178E+01		Resid sbdelay (usec)		6.31850E-03	+/- 2.6E-04
Phase delay (usec)	-1.36956448513E+04		Apriori clockrate (us/s)		-2.5640010E-07		Resid phdelay (usec)		3.92252E-06	+/- 5.7E-08
Delay rate (us/s)	-1.13953325197E+00		Apriori rate (us/s)		-1.13953344613E+00		Resid rate (us/s)		1.94165E-07	+/- 4.1E-10
Total phase (deg)			Apriori accel (us/s/s)		7.36110546422E-05		Resid phase (deg)		121.6	+/- 1.8

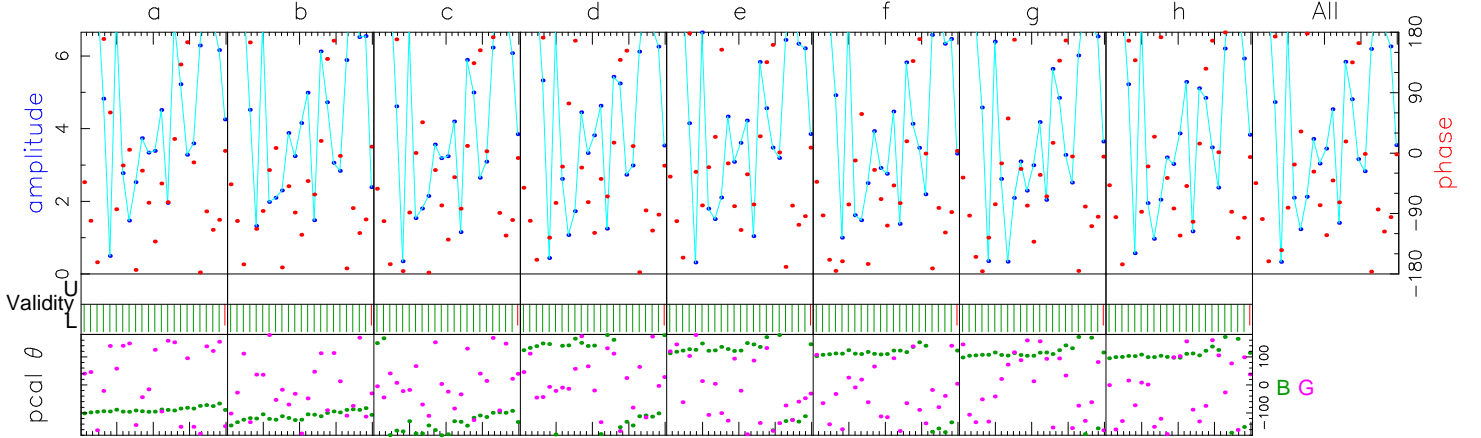
ph/seg (deg) 72.6 4.2 Search (1024X32) 1.913 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 151.4 7.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 5.4 2.5 Inc. seg. avg. 4.559 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 4.8 4.3 Inc. frq. avg. 2.179 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 B: az 262.0 el 9.0 pa 39.1 G: az 165.7 el 52.7 pa -10.7 u,v (fr/asec) 6580.324 1526.117 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/BG..zpwwct Output file: /Exps/c171a/gmva/1234/No0577/BG.W.269.zpwwct



Fringe quality 5
 SNR 66.3
 Int time 238.927
 Amp 2.218
 Phase -94.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.011402
 MBD 0.011696
 Fringe rate (Hz) 0.016745
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044001.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:023000
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2°03' 8.598"



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



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-92.7	-97.1	-100.1	-93.7	-87.9	-93.1	-90.7	-100.5	Phase	-94.5
	2.2	2.4	2.1	2.2	2.0	2.2	2.1	2.2	Ampl.	2.2
	130.2	130.4	130.7	130.4	130.8	130.5	130.6	130.2	Sbd box	130.5
U/L	0/478	0/478	0/478	0/478	0/478	0/478	0/478	0/478	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
G	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.36956331589E+04		Apriori delay (usec)		-1.36956448552E+04		Resid mbdelay (usec)		1.16964E-02	+/- 3.3E-05
Sband delay (usec)	-1.36956334532E+04		Apriori clock (usec)		4.0003178E+01		Resid sbdelay (usec)		1.14020E-02	+/- 2.6E-04
Phase delay (usec)	-1.36956448583E+04		Apriori clockrate (us/s)		-2.5640010E-07		Resid phdelay (usec)		-3.04894E-06	+/- 5.6E-08
Delay rate (us/s)	-1.13953325174E+00		Apriori rate (us/s)		-1.13953344613E+00		Resid rate (us/s)		1.94391E-07	+/- 4.0E-10
Total phase (deg)			Apriori accel (us/s/s)		7.36110546422E-05		Resid phase (deg)		-94.5	+/- 1.7

ph/seg (deg) 72.3 4.1
 amp/seg (%) 150.9 7.2
 ph/frq (deg) 4.8 2.4
 amp/frq (%) 4.7 4.3

RMS Theor. Amplitude 2.218 +/- 0.033
 Search (1024X32) 1.936
 Interp. 0.000
 Inc. seg. avg. 4.573
 Inc. frq. avg. 2.186

Group delay (usec)(sbd) -1.36956331589E+04
 Sband delay (usec) -1.36956334532E+04
 Phase delay (usec) -1.36956448583E+04
 Delay rate (us/s) -1.13953325174E+00
 Total phase (deg) -33.3

Apriori delay (usec) -1.36956448552E+04
 Apriori clock (usec) 4.0003178E+01
 Apriori clockrate (us/s) -2.5640010E-07
 Apriori rate (us/s) -1.13953344613E+00
 Apriori accel (us/s/s) 7.36110546422E-05

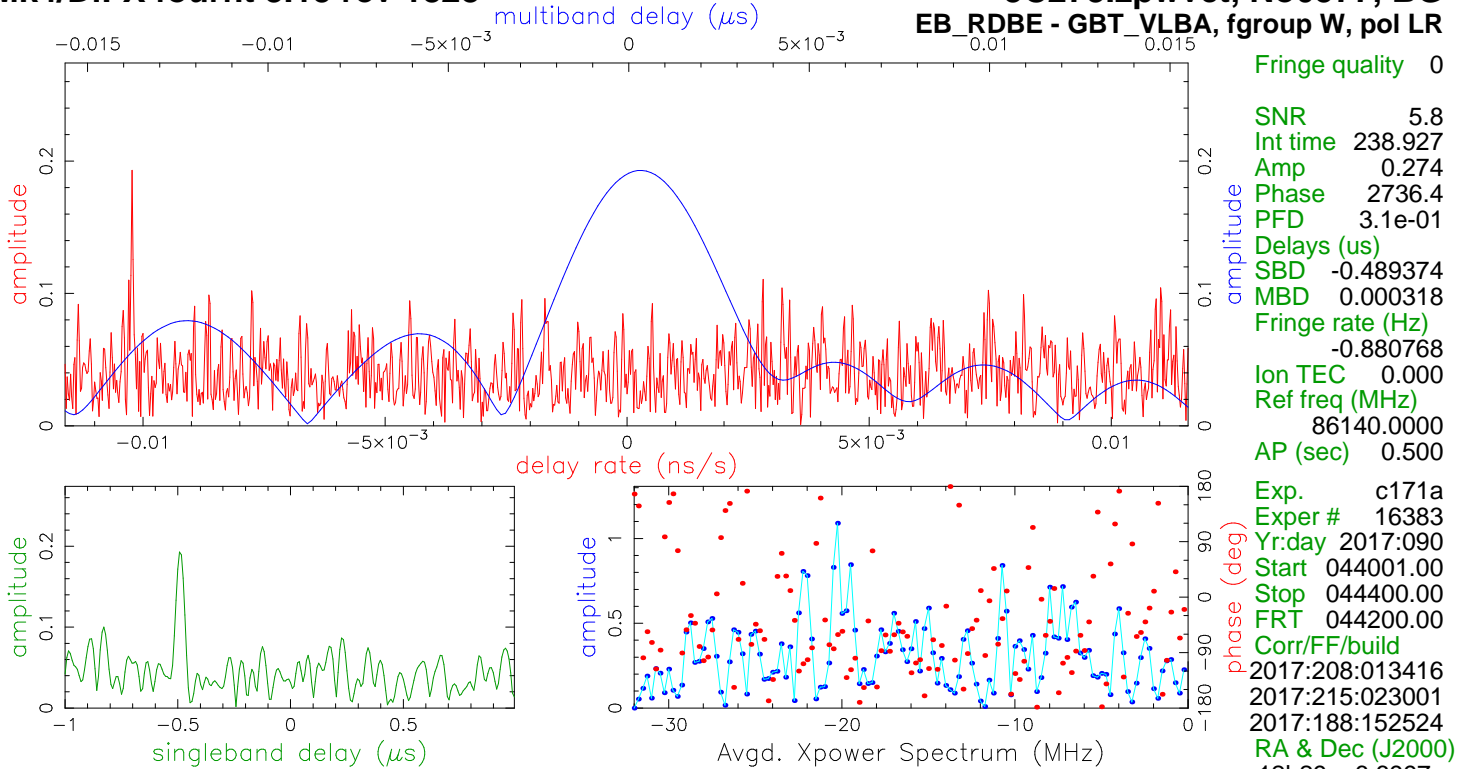
Resid mbdelay (usec) 1.16964E-02 +/- 3.3E-05
 Resid sbdelay (usec) 1.14020E-02 +/- 2.6E-04
 Resid phdelay (usec) -3.04894E-06 +/- 5.6E-08
 Resid rate (us/s) 1.94391E-07 +/- 4.0E-10
 Resid phase (deg) -94.5 +/- 1.7

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

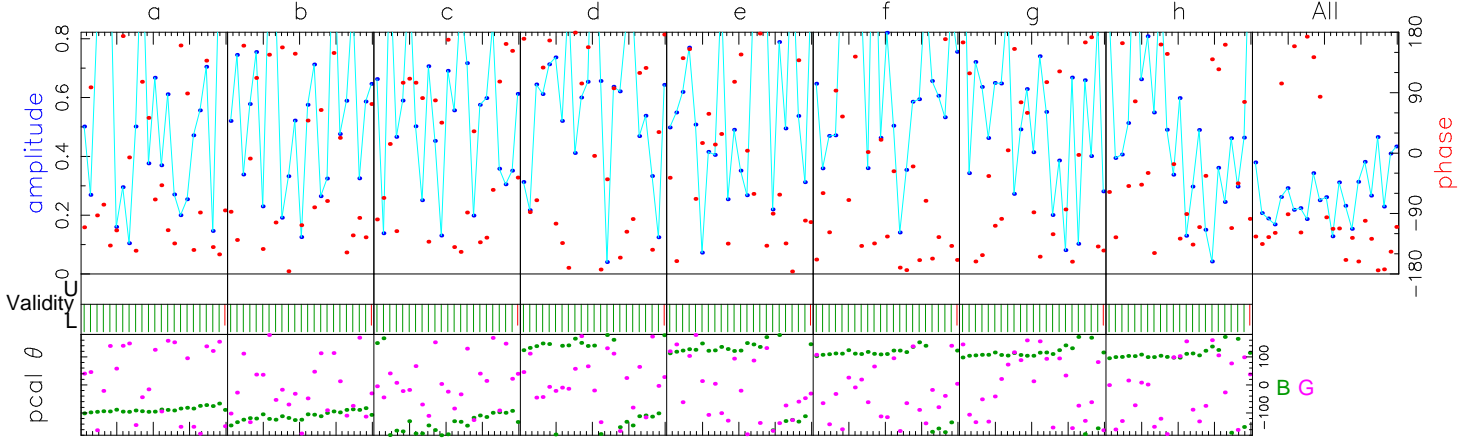
sb window (us) -1.000 1.000
 mb window (us) -0.016 0.016
 dr window (ns/s) -0.012 0.012
 ion window (TEC) 0.00 0.00

B: az 262.0 el 9.0 pa 39.1 G: az 165.7 el 52.7 pa -10.7 u,v (fr/asec) 6580.324 1526.117 simultaneous interpolator

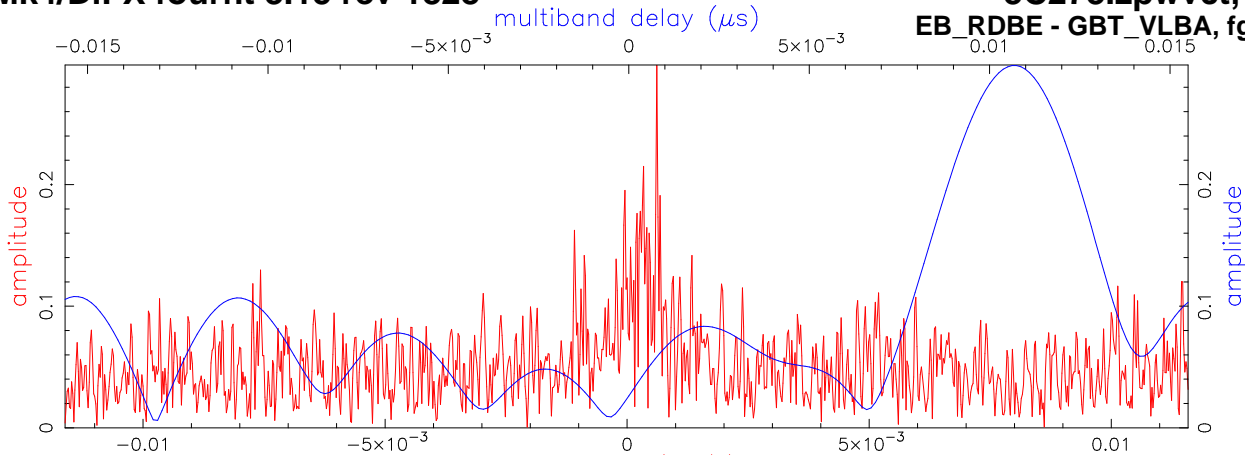
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/BG..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/BG.W.270.zpwvct



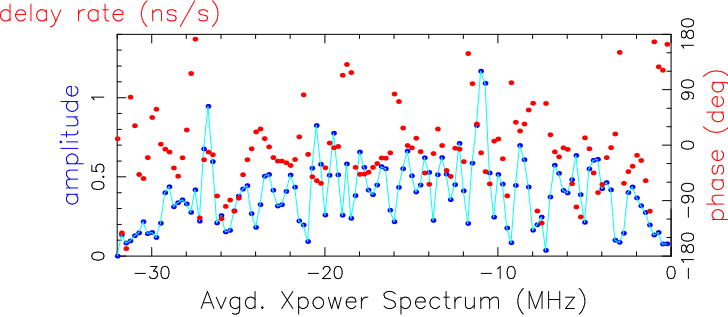
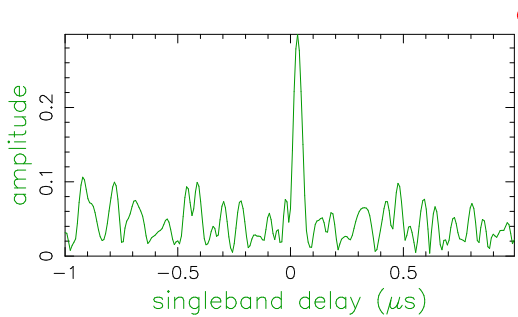
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	86412.00	86444.00	86476.00	86508.00	86540.00	86572.00	86604.00	86636.00	86668.00	86700.00	86732.00	86764.00	86796.00	86828.00	86860.00	86892.00	86924.00	86956.00	86988.00	87020.00	87052.00	87084.00	87116.00	87148.00	87180.00	87212.00	87244.00	87276.00	87308.00	87340.00	87372.00	87404.00	87436.00	87468.00	87500.00	87532.00	87564.00	87596.00	87628.00	87660.00	87692.00	87724.00	87756.00	87788.00	87820.00	87852.00	87884.00	87916.00	87948.00	87980.00	87996.00	88012.00	88028.00	88044.00	88060.00	88076.00	88092.00	88108.00	88124.00	88140.00	88156.00	88172.00	88188.00	88204.00	88220.00	88236.00	88252.00	88268.00	88284.00	88300.00	88316.00	88332.00	88348.00	88364.00	88380.00	88396.00	88412.00	88428.00	88444.00	88460.00	88476.00	88492.00	88508.00	88524.00	88540.00	88556.00	88572.00	88588.00	88604.00	88620.00	88636.00	88652.00	88668.00	88684.00	88700.00	88716.00	88732.00	88748.00	88764.00	88780.00	88796.00	88812.00	88828.00	88844.00	88860.00	88876.00	88892.00	88908.00	88924.00	88940.00	88956.00	88972.00	88988.00	89004.00	89020.00	89036.00	89052.00	89068.00	89084.00	89100.00	89116.00	89132.00	89148.00	89164.00	89180.00	89196.00	89212.00	89228.00	89244.00	89260.00	89276.00	89292.00	89308.00	89324.00	89340.00	89356.00	89372.00	89388.00	89404.00	89420.00	89436.00	89452.00	89468.00	89484.00	89500.00	89516.00	89532.00	89548.00	89564.00	89580.00	89596.00	89612.00	89628.00	89644.00	89660.00	89676.00	89692.00	89708.00	89724.00	89740.00	89756.00	89772.00	89788.00	89804.00	89820.00	89836.00	89852.00	89868.00	89884.00	89900.00	89916.00	89932.00	89948.00	89964.00	89980.00	89996.00	90012.00	90028.00	90044.00	90060.00	90076.00	90092.00	90108.00	90124.00	90140.00	90156.00	90172.00	90188.00	90204.00	90220.00	90236.00	90252.00	90268.00	90284.00	90300.00	90316.00	90332.00	90348.00	90364.00	90380.00	90396.00	90412.00	90428.00	90444.00	90460.00	90476.00	90492.00	90508.00	90524.00	90540.00	90556.00	90572.00	90588.00	90604.00	90620.00	90636.00	90652.00	90668.00	90684.00	90700.00	90716.00	90732.00	90748.00	90764.00	90780.00	90796.00	90812.00	90828.00	90844.00	90860.00	90876.00	90892.00	90908.00	90924.00	90940.00	90956.00	90972.00	90988.00	91004.00	91020.00	91036.00	91052.00	91068.00	91084.00	91100.00	91116.00	91132.00	91148.00	91164.00	91180.00	91196.00	91212.00	91228.00	91244.00	91260.00	91276.00	91292.00	91308.00	91324.00	91340.00	91356.00	91372.00	91388.00	91404.00	91420.00	91436.00	91452.00	91468.00	91484.00	91500.00	91516.00	91532.00	91548.00	91564.00	91580.00	91596.00	91612.00	91628.00	91644.00	91660.00	91676.00	91692.00	91708.00	91724.00	91740.00	91756.00	91772.00	91788.00	91804.00	91820.00	91836.00	91852.00	91868.00	91884.00	91900.00	91916.00	91932.00	91948.00	91964.00	91980.00	91996.00	92012.00	92028.00	92044.00	92060.00	92076.00	92092.00	92108.00	92124.00	92140.00	92156.00	92172.00	92188.00	92204.00	92220.00	92236.00	92252.00	92268.00	92284.00	92300.00	92316.00	92332.00	92348.00	92364.00	92380.00	92396.00	92412.00	92428.00	92444.00	92460.00	92476.00	92492.00	92508.00	92524.00	92540.00	92556.00	92572.00	92588.00	92604.00	92620.00	92636.00	92652.00	92668.00	92684.00	92700.00	92716.00	92732.00	92748.00	92764.00	92780.00	92796.00	92812.00	92828.00	92844.00	92860.00	92876.00	92892.00	92908.00	92924.00	92940.00	92956.00	92972.00	92988.00	93004.00	93020.00	93036.00	93052.00	93068.00	93084.00	93100.00	93116.00	93132.00	93148.00	93164.00	93180.00	93196.00	93212.00	93228.00	93244.00	93260.00	93276.00	93292.00	93308.00	93324.00	93340.00	93356.00	93372.00	93388.00	93404.00	93420.00	93436.00	93452.00	93468.00	93484.00	93500.00	93516.00	93532.00	93548.00	93564.00	93580.00	93596.00	93612.00	93628.00	93644.00	93660.00	93676.00	93692.00	93708.00	93724.00	93740.00	93756.00	93772.00	93788.00	93804.00	93820.00	93836.00	93852.00	93868.00	93884.00	93900.00	93916.00	93932.00	93948.00	93964.00	93980.00	93996.00	94012.00	94028.00	94044.00	94060.00	94076.00	94092.00	94108.00	94124.00	94140.00	94156.00	94172.00	94188.00	94204.00	94220.00	94236.00	94252.00	94268.00	94284.00	94300.00	94316.00	94332.00	94348.00	94364.00	94380.00	94396.00	94412.00	94428.00	94444.00	94460.00	94476.00	94492.00	94508.00	94524.00	94540.00	94556.00	94572.00	94588.00	94604.00	94620.00	94636.00	94652.00	94668.00	94684.00	94700.00	94716.00	94732.00	94748.00	94764.00	94780.00	94796.00	94812.00	94828.00	94844.00	94860.00	94876.00	94892.00	94908.00	94924.00	94940.00	94956.00	94972.00	94988.00	95004.00	95020.00	95036.00	95052.00	95068.00	95084.00	95100.00	95116.00	95132.00	95148.00	95164.00	95180.00	95196.00	95212.00	95228.00	95244.00	95260.00	95276.00	95292.00	95308.00	95324.00	95340.00	95356.00	95372.00	95388.00	95404.00	95420.00	95436.00	95452.00	95468.00	95484.00	95500.00	95516.00	95532.00	95548.00	95564.00	95580.00	95596.00	95612.00	95628.00	95644.00	95660.00	95676.00	95692.00	95708.00	95724.00	95740.00	95756.00	95772.00	95788.00	95804.00	95820.00	95836.00	95852.00	95868.00	95884.00	95900.00	95916.00	95932.00	95948.00	95964.00	95980.00	95996.00	96012.00	96028.00	96044.00	96060.00	96076.00	96092.00	96108.00	96124.00	96140.00	96156.00	96172.00	96188.00	96204.00	96220.00	96236.00	96252.00	96268.00	96284.00	96300.00	96316.00	96332.00	96348.00	96364.00	96380.00	96396.00	96412.00	96428.00	96444.00	96460.00	96476.00	96492.00	96508.00	96524.00	96540.00	96556.00	96572.00	96588.00	96604.00	96620.00	96636.00	96652.00	96668.00	96684.00	96700.00	96716.00	96732.00	96748.00	96764.00	96780.00	96796.00	96812.00	96828.00	96844.00	96860.00	96876.00	96892.00	96908.00	96924.00	96940.00	96956.00	96972.00	96988.00	97004.00	97020.00	97036.00	97052.00	97068.00	97084.00	97100.00	97116.00	97132.00	97148.00	97164.00	97180.00	97196.00	97212.00	97228.00	97244.00	97260.00	97276.00	97292.00	97308.00	97324.00	97340.00	97356.00	97372.00	97388.00	97404.00	97420.00	97436.00	97452.00	97468.00	97484.00	97500.00	97516.00	97532.00	97548.00	97564.00	97580.00	97596.00	97612.00	97628.00	97644.00	97660.00	97676.00	97692.00	97708.00	97724.00	97740.00	97756.00	97772.00	97788.00	97804.00	97820.00	97836.00	97852.00	97868.00	97884.00	97900.00	97916.00	97932.00	97948.00	97964.00	97980.00	97996.00	98012.00	98028.00	98044.00	98060.00	98076.00	98092.00	98108.00	98124.00	98140.00	98156.00	98172.00	98188.00	98204.00	98220.00	98236.00	98252.00	98268.00	98284.00	98300.00	98316.00	98332.00	98348.00	98364.00	98380.00	98396.00	98412.00	98428.00	98444.00	98460.00	98476.00	98492.00	98508.00	98524.00	98540.00	98556.00	98572.00	98588.00	98604.00	98620.00	98636.00	98652.00	98668.00	98684.00	98700.00	98716.00	98732.00	98748.00	98764.00	98780.00	98796.00	98812.00	98828.00	98844.00	98860.00	98876.00	98892.00	98908.00	98924.00	98940.00	98956.00	98972.00	98988.00	99004.00	99020.00	99036.00	99052.00	99068.00	99084.00	99100.00	99116.00	99132.00	99148.00	99164.00	99180.00	99196.00	99212.00	99228.00	99244.00	99260.00	99276.00	99292.00	99308.00	99324.00	99340.00	99356.00	99372.00	99388.00	99404.00	99420.00	99436.00	99452.00	99468.00	99484.00	99500.00	99516.00	99532.00	99548.00	99564.00	99580.00	99596.00	99612.00	99628.00	99644.00	99660.00	99676.00	99692.00	99708.00	99724.00	99740.00	99756.00	99772.00	99788.00	99804.00	99820.00	99836.00	99852.00	99868.00	99884.00	99900.00	99916.00
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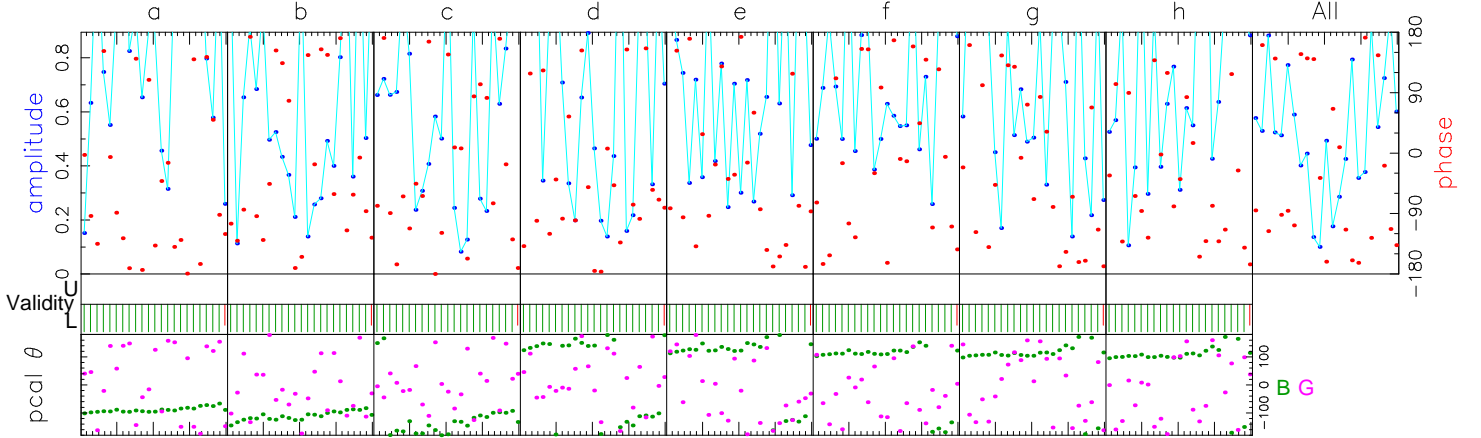


Fringe quality 9
SNR 8.9
Int time 238.927
Amp 0.298
Phase -315.8
PFD 4.9e-11
Delays (us)
SBD 0.030970
MBD 0.010690
Fringe rate (Hz) 0.052922
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500



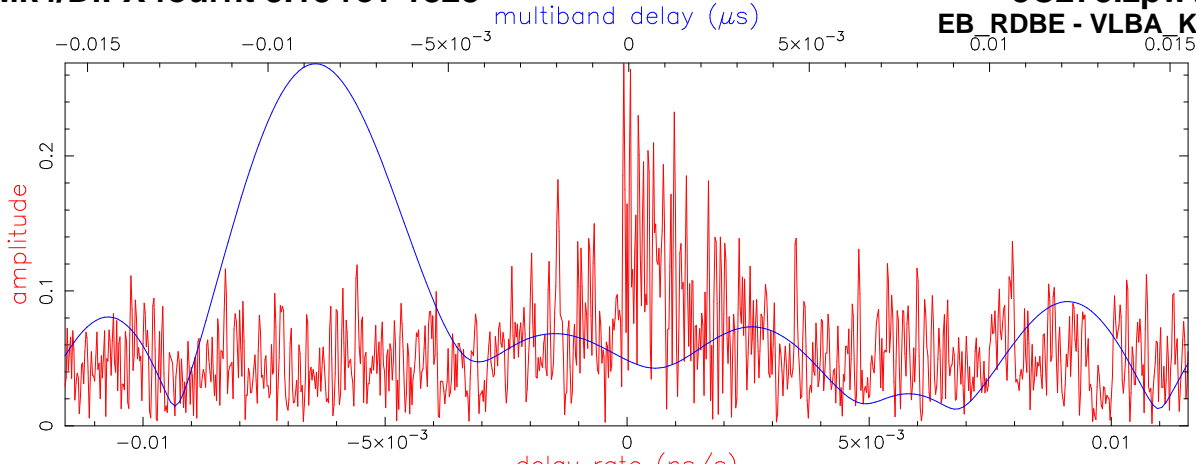
Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044001.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:023002
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2° 03' 8.598"

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
	-151.3	-124.8	-135.2	-111.4	-124.3	-159.3	-167.3	-126.5	Phase	-135.8
	0.5	0.3	0.2	0.4	0.4	0.2	0.2	0.3	Ampl.	0.3
	133.0	134.2	213.2	133.0	131.7	75.5	69.6	131.8	Sbd box	133.0
U/L	0/478	0/478	0/478	0/478	0/478	0/478	0/478	0/478	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
G	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
G	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.36956029153E+04		Apriori delay (usec)		-1.36956448552E+04		Resid mbdelay (usec)		1.06899E-02	+/- 2.4E-04
Sband delay (usec)	-1.36956138857E+04		Apriori clock (usec)		4.0003178E+01		Resid sbdelay (usec)		3.09695E-02	+/- 1.9E-03
Phase delay (usec)	-1.36956448596E+04		Apriori clockrate (us/s)		-2.5640010E-07		Resid phdelay (usec)		-4.38013E-06	+/- 4.1E-07
Delay rate (us/s)	-1.13953283176E+00		Apriori rate (us/s)		-1.13953344613E+00		Resid rate (us/s)		6.14368E-07	+/- 3.0E-09
Total phase (deg)			Apriori accel (us/s/s)		7.36110546422E-05		Resid phase (deg)		-315.8	+/- 12.9

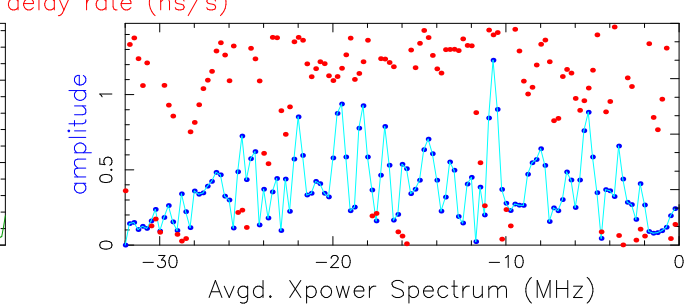
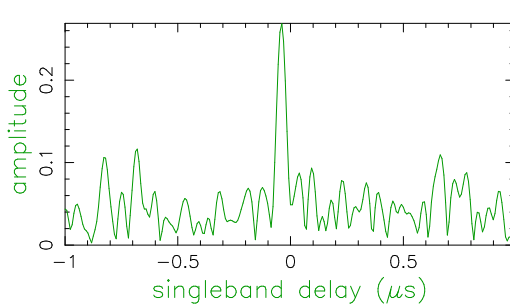
ph/seg (deg) 72.8 30.8 Search (1024X32) 0.293 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 110.5 53.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 21.3 18.2 Inc. seg. avg. 0.461 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 27.3 31.8 Inc. frq. avg. 0.298 Data rate (Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 B: az 262.0 el 9.0 pa 39.1 G: az 165.7 el 52.7 pa -10.7 u,v (fr/asec) 6580.324 1526.117 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/BG..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/BG.W.272.zpwvct



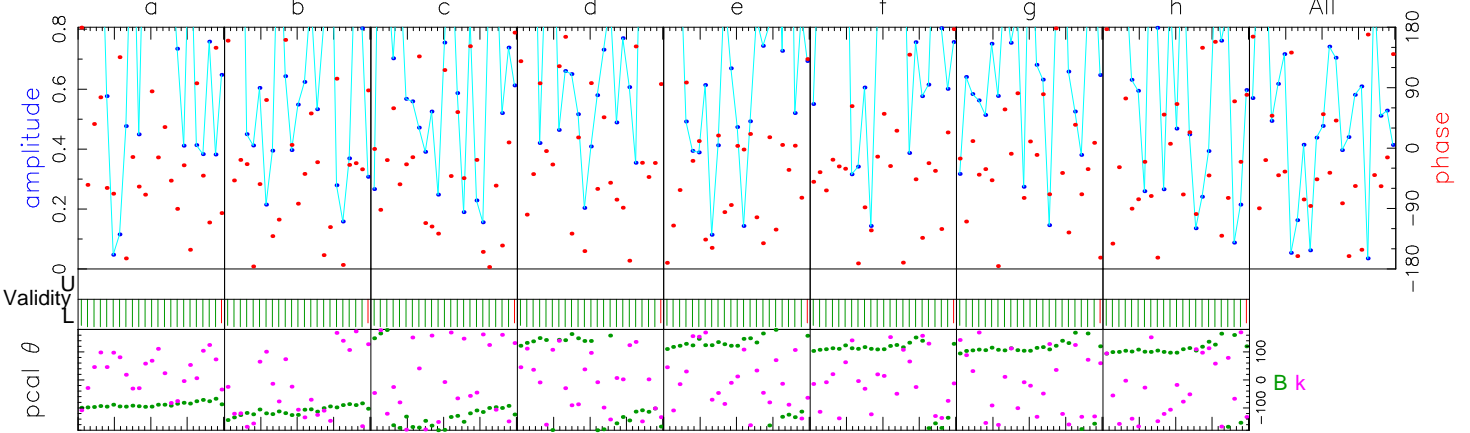
Fringe quality 9

SNR 8.0
Int time 239.447
Amp 0.269
Phase 133.4
PFD 7.3e-08
Delays (us)
SBD -0.040458
MBD -0.008660
Fringe rate (Hz)
-0.006530
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022601
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2° 03' 8.598"



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



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
k	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Group delay (usec)(sbd)		-1.09885361920E+04			-1.09884962819E+04				-8.66008E-03	+/- 2.7E-04
Sband delay (usec)		-1.09885367399E+04			3.1804966E+01				-4.04580E-02	+/- 2.1E-03
Phase delay (usec)		-1.09884962834E+04			-2.2380921E-08				-1.50137E-06	+/- 4.6E-07
Delay rate (us/s)		-1.81260235795E+00			-1.81260228214E+00				-7.58097E-08	+/- 3.3E-09
Total phase (deg)			-127.1		5.95271612621E-05				133.4	+/- 14.2
RMS	85.8	34.1		0.269 +/- 0.033						
ph/seg (deg)	85.8	34.1		0.256						
amp/seg (%)	144.7	59.6		0.000						
ph/frq (deg)	26.7	20.1		0.450						
amp/frq (%)	28.8	35.1		0.273						
Group delay (usec)(sbd)										
Sband delay (usec)										
Phase delay (usec)										
Delay rate (us/s)										
Total phase (deg)										
Validity										
pcal θ										
B k										
Group delay (usec)(sbd)										
Sband delay (usec)										
Phase delay (usec)										
Delay rate (us/s)										
Total phase (deg)										
Validity										
pcal θ										
B k										
Group delay (usec)(sbd)										
Sband delay (usec)										
Phase delay (usec)										
Delay rate (us/s)										
Total phase (deg)										
Validity										
pcal θ										
B k										

Group delay (usec)(sbd) -1.09885361920E+04 Apriori delay (usec) -1.09884962819E+04 Resid mbdelay (usec) -8.66008E-03 +/- 2.7E-04

Sband delay (usec) -1.09885367399E+04 Apriori clock (usec) 3.1804966E+01 Resid sbdelay (usec) -4.04580E-02 +/- 2.1E-03

Phase delay (usec) -1.09884962834E+04 Apriori clockrate (us/s) -2.2380921E-08 Resid phdelay (usec) -1.50137E-06 +/- 4.6E-07

Delay rate (us/s) -1.81260235795E+00 Apriori rate (us/s) -1.81260228214E+00 Resid rate (us/s) -7.58097E-08 +/- 3.3E-09

Total phase (deg) -127.1 Apriori accel (us/s/s) 5.95271612621E-05 Resid phase (deg) 133.4 +/- 14.2

RMS 85.8 Theor. 34.1 Amplitude 0.269 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 85.8 34.1 Search (1024X32) 0.256 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

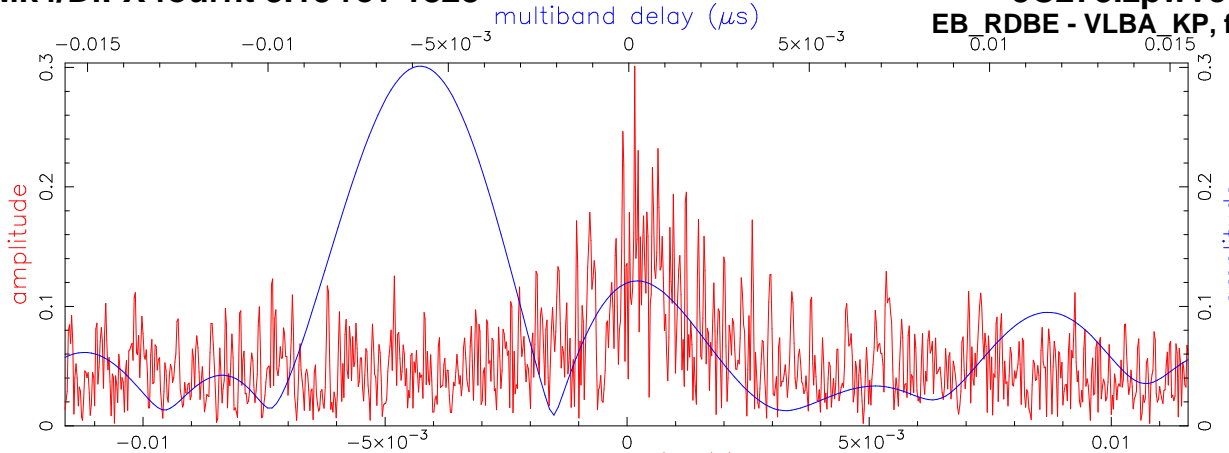
amp/seg (%) 144.7 59.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

ph/frq (deg) 26.7 20.1 Inc. seg. avg. 0.450 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

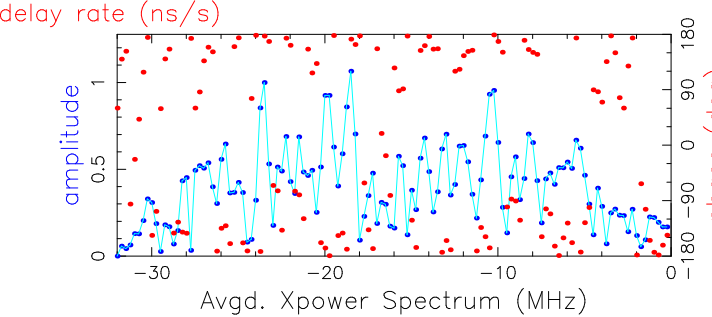
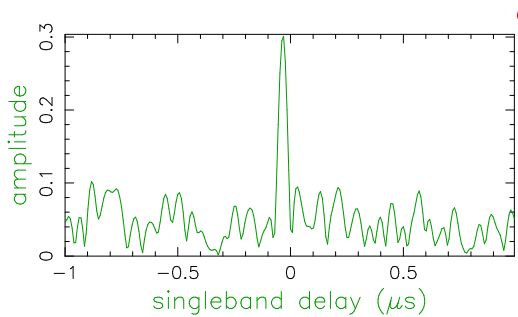
amp/frq (%) 28.8 35.1 Inc. frq. avg. 0.273 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 262.0 el 9.0 pa 39.1 k: az 120.0 el 41.6 pa -47.1 u,v (fr/asec) 10427.668 2302.584 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Bk.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/Bk.W.49.zpwwct

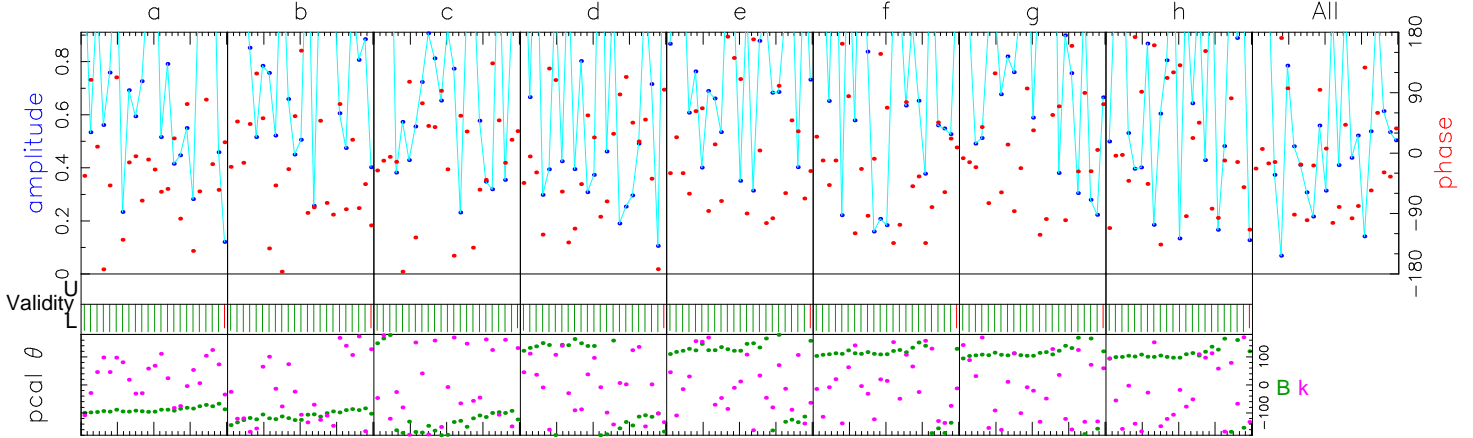


Fringe quality 9
 SNR 9.1
 Int time 239.447
 Amp 0.304
 Phase 166.0
 PFD 9.9e-12
 Delays (us)
 SBD -0.034013
 MBD -0.005825
 Fringe rate (Hz) 0.014587
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500



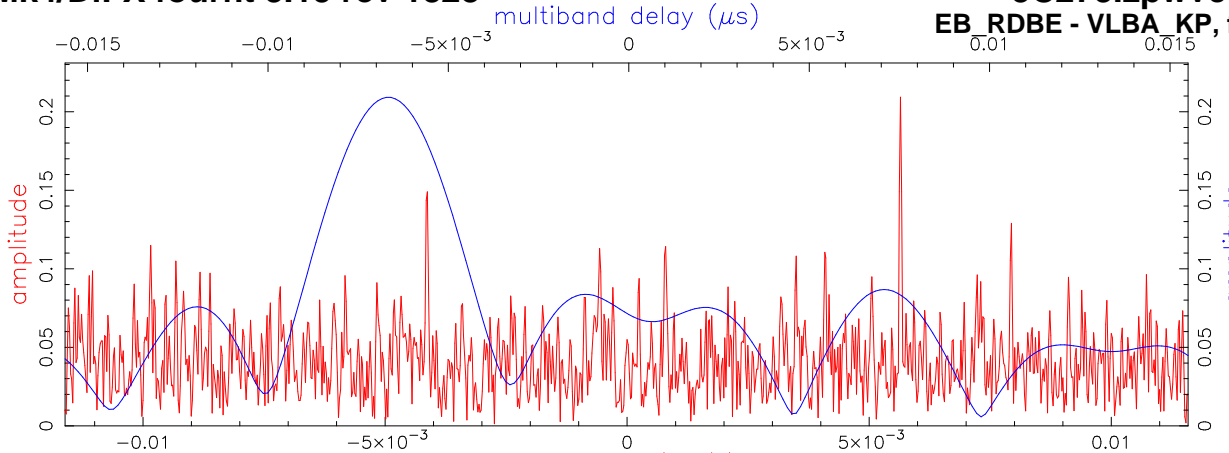
Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022602
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2°03' 8.598"

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

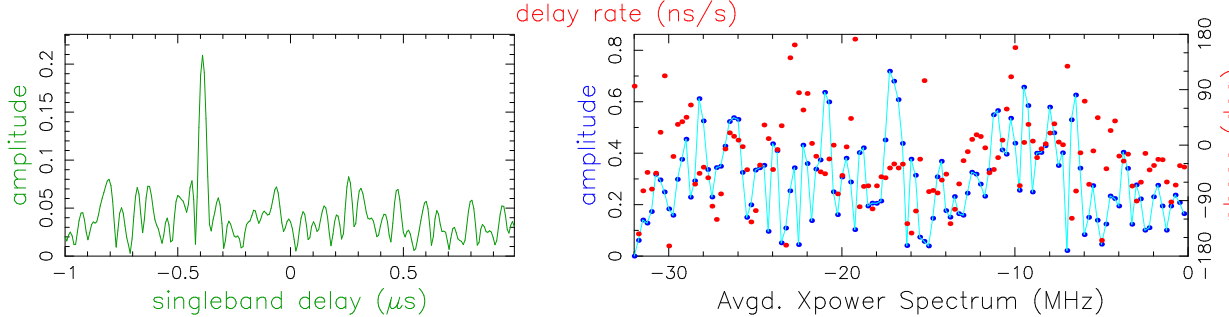


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-16.4	-31.3	12.4	-17.5	-29.0	-30.1	5.9	-9.7		-14.0
	0.4	0.3	0.4	0.2	0.3	0.4	0.3	0.2	Ampl.	0.3
	125.2	123.4	125.6	238.6	201.2	125.9	125.1	158.1	Sbd box	124.6
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
k	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.09885333573E+04		Apriori delay (usec)		-1.09884962819E+04		Resid mbdelay (usec)		-5.82543E-03	+/- 2.4E-04
Sband delay (usec)	-1.09885302944E+04		Apriori clock (usec)		3.1804966E+01		Resid sbdelay (usec)		-3.40125E-02	+/- 1.9E-03
Phase delay (usec)	-1.09884962824E+04		Apriori clockrate (us/s)		-2.2380921E-08		Resid phdelay (usec)		-4.50167E-07	+/- 4.1E-07
Delay rate (us/s)	-1.81260211280E+00		Apriori rate (us/s)		-1.81260228214E+00		Resid rate (us/s)		1.69342E-07	+/- 2.9E-09
Total phase (deg)			Apriori accel (us/s/s)		5.95271612621E-05		Resid phase (deg)		166.0	+/- 12.6

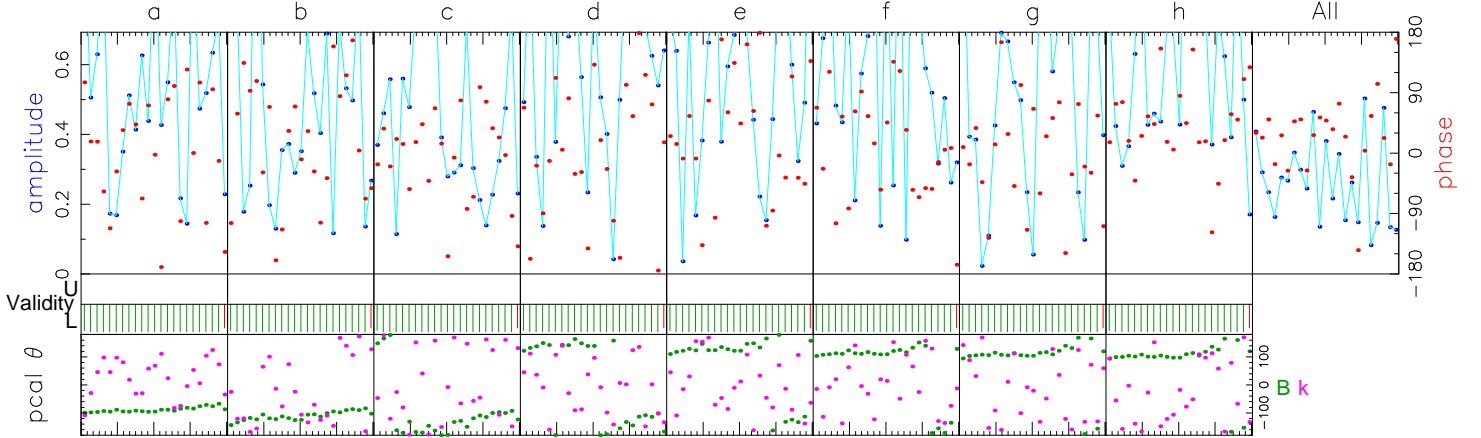
ph/seg (deg) 74.1 30.2 Search (1024X32) 0.264 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 136.5 52.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 17.8 17.8 Inc. seg. avg. 0.511 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 25.9 31.1 Inc. frq. avg. 0.299 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 B: az 262.0 el 9.0 pa 39.1 k: az 120.0 el 41.6 pa -47.1 u,v (fr/asec) 10427.668 2302.584 simultaneous interpolator



Fringe quality 0
 SNR 6.3
 Int time 239.447
 Amp 0.231
 Phase 2186.2
 PFD 2.5e-02
 Delays (us)
 SBD -0.390402
 MBD -0.006661
 Fringe rate (Hz)
 0.486010
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022603
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2°03' 8.598"



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

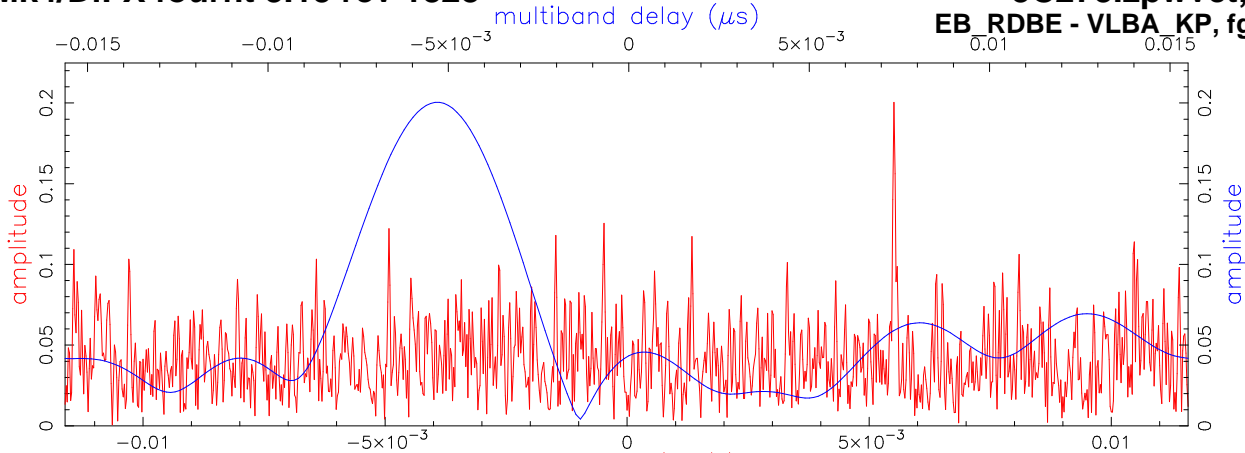


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	31.3	40.4	-3.7	63.6	43.7	11.4	9.1	34.9		26.2
	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.5	Ampl.	0.2
	6.7	101.9	23.0	89.9	14.8	57.1	169.0	78.9	Sbd box	79.0
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
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	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

Group delay (usec)(sbd) -1.09888779433E+04 Apriori delay (usec) -1.09884962819E+04 Resid mbdelay (usec) -6.66142E-03 +/- 3.5E-04
 Sband delay (usec) -1.09888866834E+04 Apriori clock (usec) 3.1804966E+01 Resid sbdelay (usec) -3.90402E-01 +/- 2.8E-03
 Phase delay (usec) -1.09884962811E+04 Apriori clockrate (us/s) -2.2380921E-08 Resid phdelay (usec) 8.46094E-07 +/- 5.9E-07
 Delay rate (us/s) -1.81259664005E+00 Apriori rate (us/s) -1.81260228214E+00 Resid rate (us/s) 5.64209E-06 +/- 4.3E-09
 Total phase (deg) 1925.7 Apriori accel (us/s/s) 5.95271612621E-05 Resid phase (deg) 2186.2 +/- 18.3

RMS Theor. Amplitude 0.231 +/- 0.037 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 56.3 43.9 Search (1024X32) 0.200 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 63.3 76.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 23.9 25.9 Inc. seg. avg. 0.227 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 40.6 45.2 Inc. frq. avg. 0.223 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

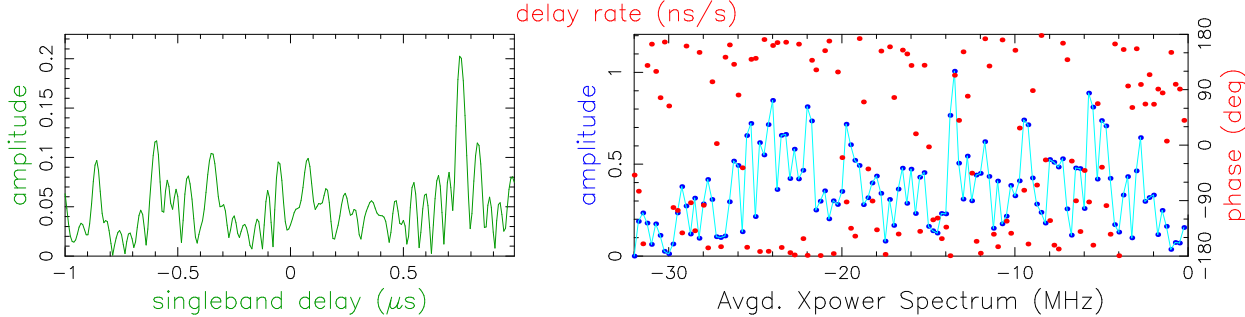
B: az 262.0 el 9.0 pa 39.1 k: az 120.0 el 41.6 pa -47.1 u,v (fr/asec) 10427.668 2302.584 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Bk.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/Bk.W.51.zpwwct



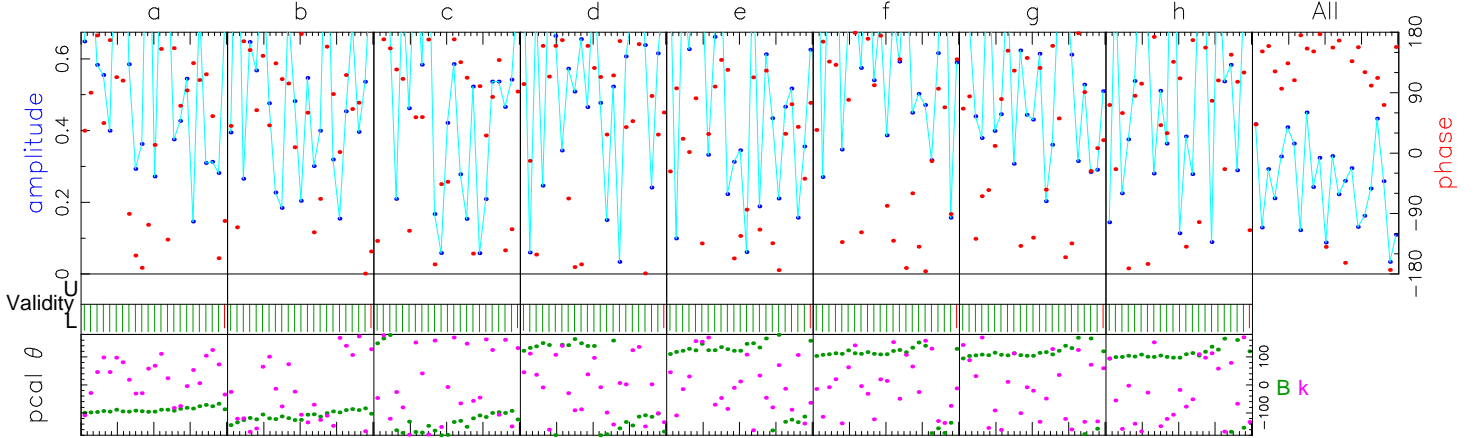
Fringe quality 0

SNR 6.1
Int time 239.447
Amp 0.225
Phase -4185.5
PFD 5.9e-02
Delays (μs)
SBD 0.753136
MBD -0.005295
Fringe rate (Hz) 0.473709
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022604
2017:188:152524
RA & Dec (J2000)
12h29m 6.697s
+2°03' 8.598"

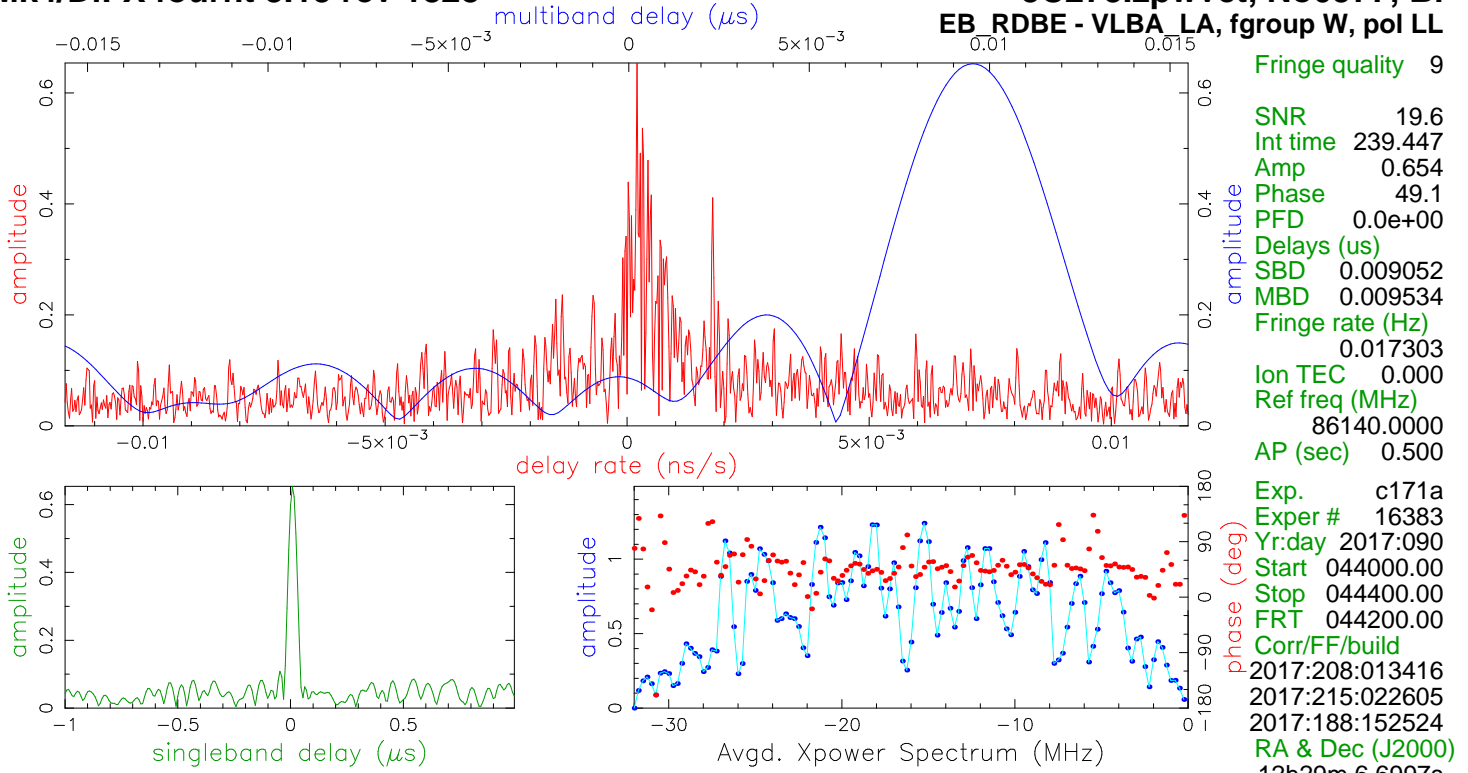


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

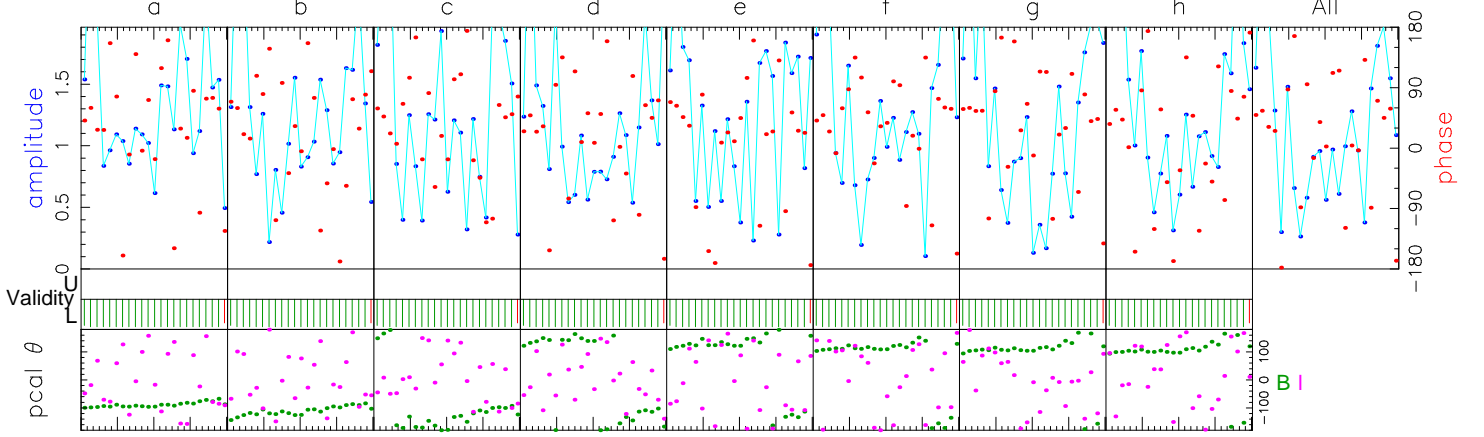


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
138.5	128.4	151.7	129.6	82.2	149.4	126.6	139.0	Phase	134.5
0.2	0.2	0.3	0.3	0.2	0.3	0.1	0.2	Ampl.	0.2
224.1	36.1	47.0	247.7	223.4	199.9	67.7	87.4	Sbd box	225.4
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
k -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:k 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:k 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k 1000	1000	1000	1000	1000	1000	1000	1000		
B W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
k W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-1.09877515773E+04		Apriori delay (usec)	-1.09884962819E+04	Resid mbdelay (usec)	-5.29540E-03	+/-	3.5E-04	
Sband delay (usec)	-1.09877431464E+04		Apriori clock (usec)	3.1804966E+01	Resid sbdelay (usec)	7.53136E-01	+/-	2.8E-03	
Phase delay (usec)	-1.09884962776E+04		Apriori clockrate (us/s)	-2.2380921E-08	Resid phdelay (usec)	4.33734E-06	+/-	6.0E-07	
Delay rate (us/s)	-1.81259678285E+00		Apriori rate (us/s)	-1.81260228214E+00	Resid rate (us/s)	5.49929E-06	+/-	4.4E-09	
Total phase (deg)	-4446.1		Apriori accel (us/s/s)	5.95271612621E-05	Resid phase (deg)	-4185.5	+/-	18.7	

ph/seg (deg) 40.7 44.9 Search (1024X32) 0.190 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 61.7 78.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 23.8 26.5 Inc. seg. avg. 0.214 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 30.5 46.2 Inc. frq. avg. 0.209 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 B: az 262.0 el 9.0 pa 39.1 k: az 120.0 el 41.6 pa -47.1 u,v (fr/asec) 10427.668 2302.584 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Bk.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/Bk.W.52.zpwwct simultaneous interpolator



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



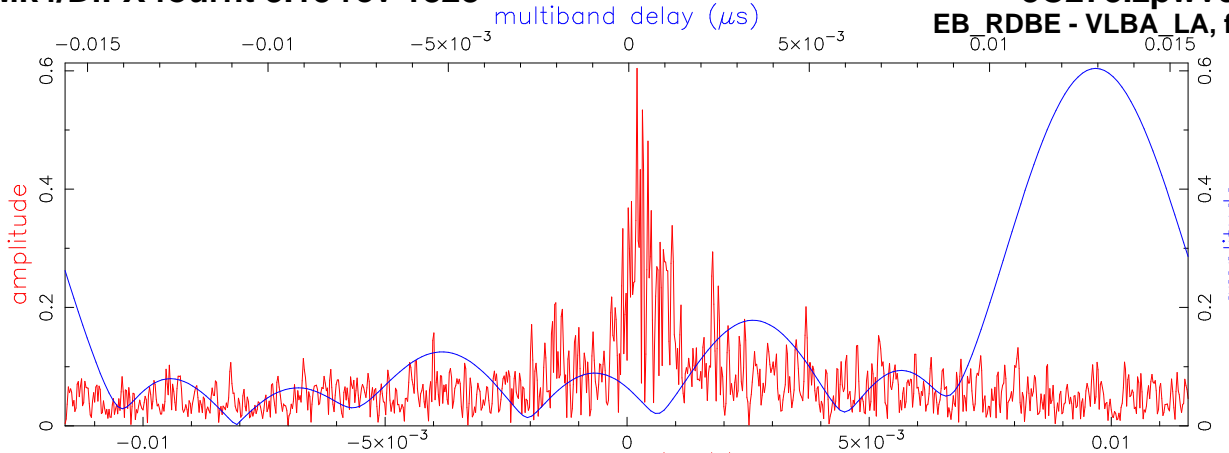
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
I	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:I	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-1.14008644371E+04	Apriori delay (usec)	-1.14008739711E+04	Resid mbdelay (usec)	9.53400E-03	+/-	1.1E-04
Sband delay (usec)	-1.14008649191E+04	Apriori clock (usec)	3.3012909E+01	Resid sbdelay (usec)	9.05200E-03	+/-	8.8E-04
Phase delay (usec)	-1.14008739695E+04	Apriori clockrate (us/s)	7.6213009E-08	Resid phdelay (usec)	1.58262E-06	+/-	1.9E-07
Delay rate (us/s)	-1.68184226272E+00	Apriori rate (us/s)	-1.68184246359E+00	Resid rate (us/s)	2.00865E-07	+/-	1.4E-09
Total phase (deg)	-265.1	Apriori accel (us/s/s)	6.15133901048E-05	Resid phase (deg)	49.1	+/-	5.9

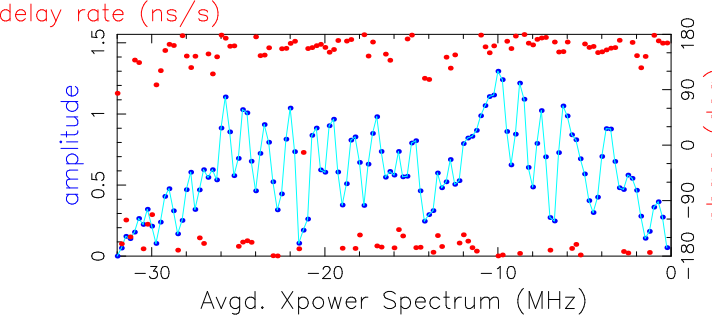
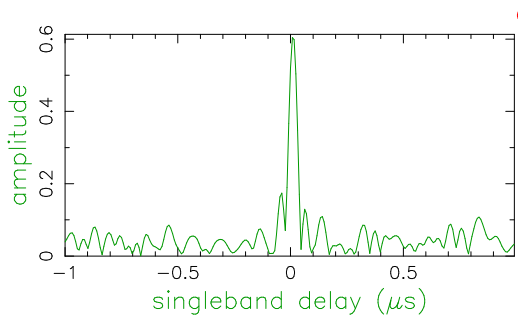
ph/seg (deg)	80.1	Theor.	14.0	Amplitude	0.654 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	125.6	Search (1024X32)	0.640	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	8.3	Interp.	0.000	Inc. seg. avg.	1.130	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	14.9	Inc. frq. avg.	0.651	Inc. frq. avg.	0.651	Sample rate (MSamp/s):	64	mb window (us)	-0.016 0.016
						Data rate (Mb/s):	1024	nlags:	128
								t_cohere:	infinite
								ion window (TEC)	0.00 0.00

B: az 262.0 el 9.0 pa 39.1 I: az 128.2 el 43.2 pa -39.4 u,v (fr/asec) 9679.635 1818.551 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/BI.zpwvct Output file: /Exps/c171a/gmva/1234/No0577/BI.W.53.zpwvct

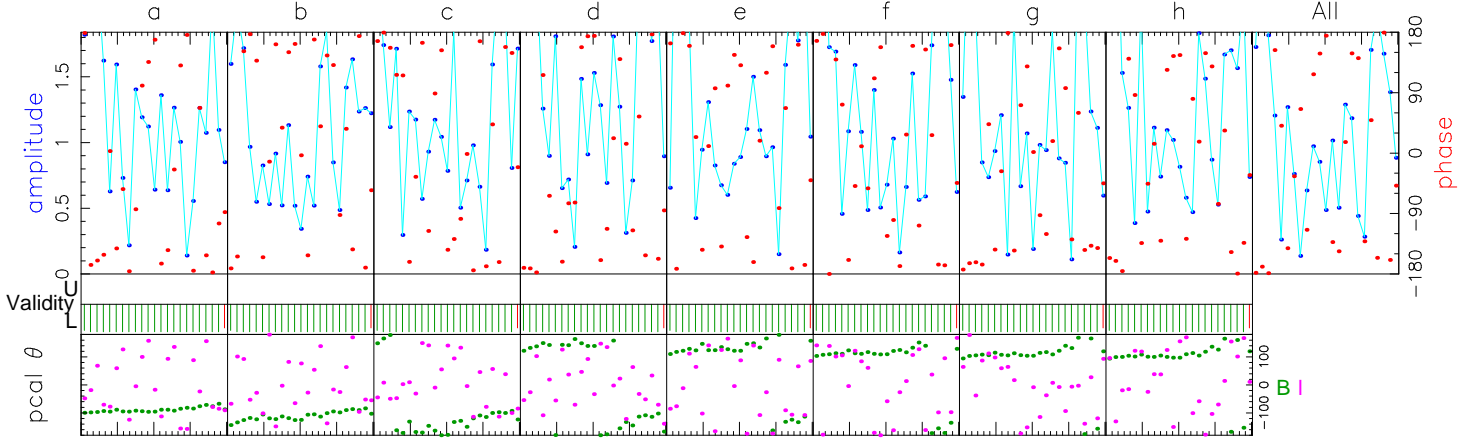


Fringe quality 9
SNR 18.3
Int time 239.447
Amp 0.613
Phase -176.8
PFD 0.0e+00
Delays (us)
SBD 0.011219
MBD 0.012944
Fringe rate (Hz) 0.017481
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

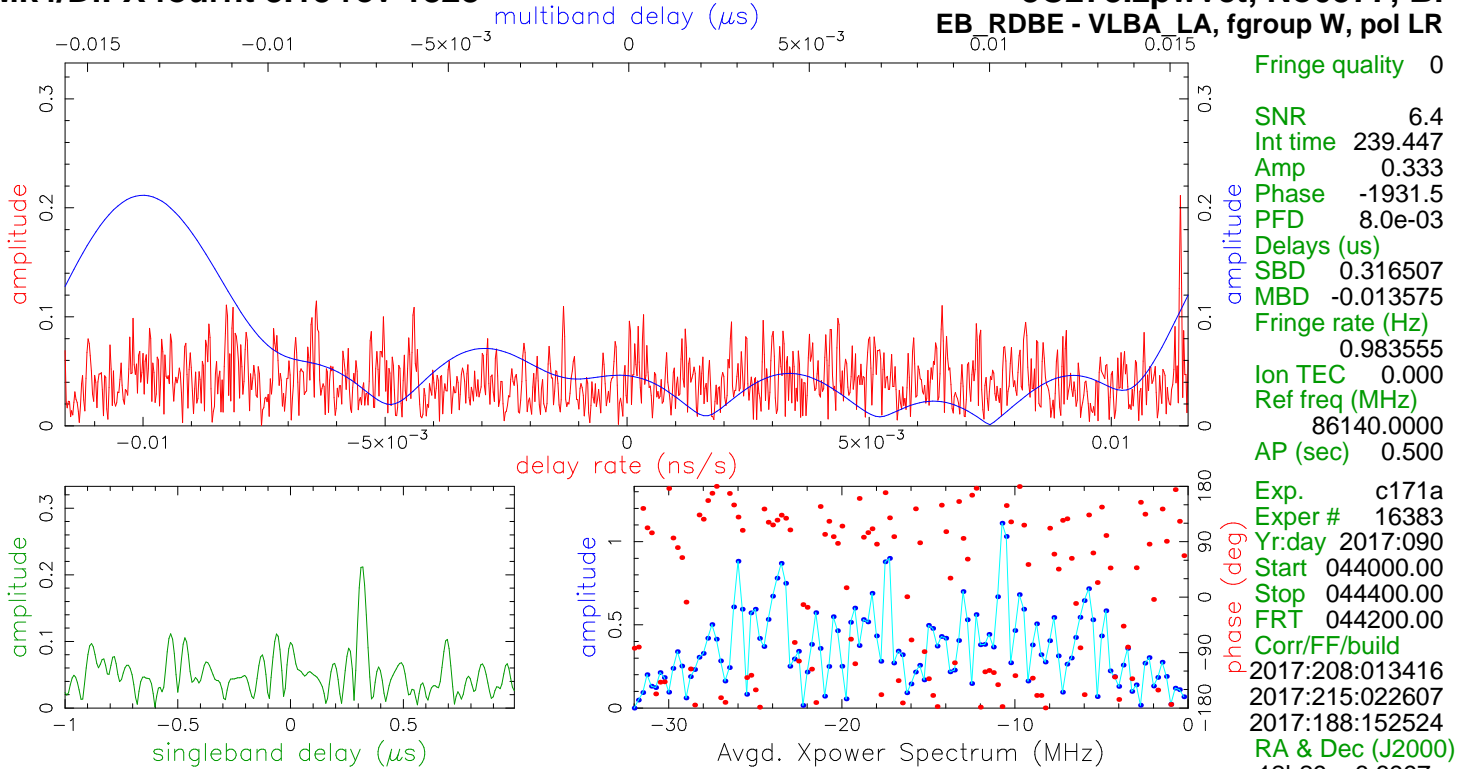


Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022606
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2° 03' 8.598"

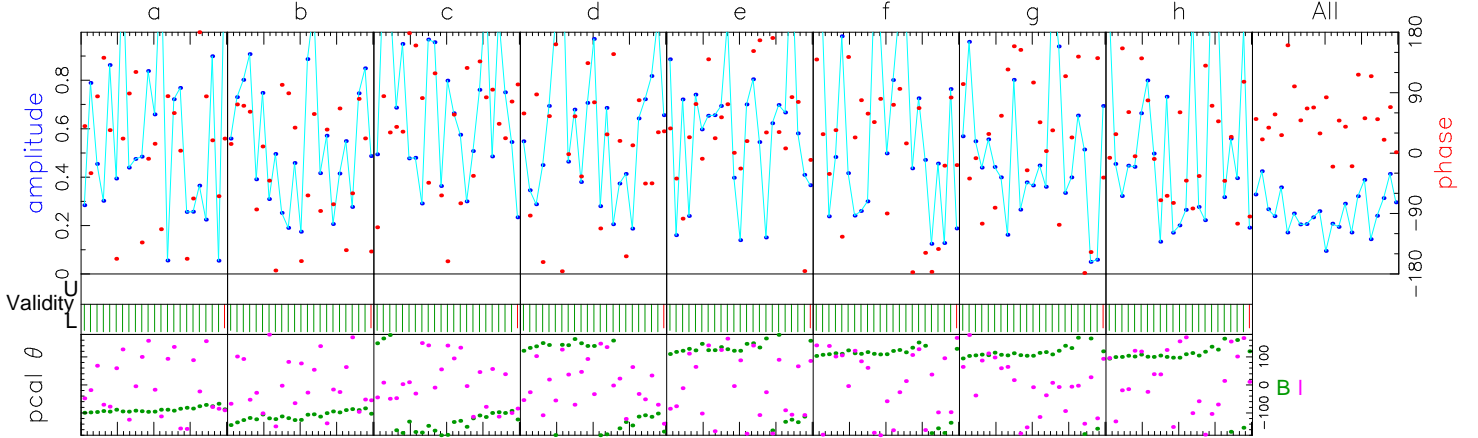
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
I	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
I	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)		-1.14008610274E+04				-1.14008739711E+04			1.29437E-02	+/- 1.2E-04
Sband delay (usec)		-1.14008627521E+04				3.3012909E+01			1.12190E-02	+/- 9.4E-04
Phase delay (usec)		-1.14008739768E+04				7.6213009E-08			-5.70161E-06	+/- 2.0E-07
Delay rate (us/s)		-1.68184226065E+00				-1.68184246359E+00			2.02940E-07	+/- 1.5E-09
Total phase (deg)			-131.0			6.15133901048E-05			-176.8	+/- 6.2
RMS	76.9	15.0			0.613 +/- 0.033					
ph/seg (deg)	128.6	26.1			0.000					
amp/seg (%)	12.5	8.8			1.058					
amp/frq (%)	16.4	15.4			0.608					
Search (1024X32)					0.599					
Apriori delay (usec)					0.599					
Apriori clock (usec)					3.3012909E+01					
Apriori clockrate (us/s)					7.6213009E-08					
Apriori rate (us/s)					-1.68184246359E+00					
Apriori accel (us/s/s)					6.15133901048E-05					
Resid mbdelay (usec)									1.29437E-02	+/- 1.2E-04
Resid sbdelay (usec)									1.12190E-02	+/- 9.4E-04
Resid phdelay (usec)									-5.70161E-06	+/- 2.0E-07
Resid rate (us/s)									2.02940E-07	+/- 1.5E-09
Resid phase (deg)									-176.8	+/- 6.2
Pcal mode:	MANUAL	MANUAL			MANUAL				PC period (AP's)	5, 5
Pcal rate:	0.000E+00	0.000E+00			0.000E+00				sb window (us)	-1.000 1.000
Bits/sample:	2x2				2x2				mb window (us)	-0.016 0.016
Sample rate (MSamp/s):	64				64				dr window (ns/s)	-0.012 0.012
Data rate (Mb/s):	1024				1024				ion window (TEC)	0.00 0.00
nlags:	128				128					
t_cohere:	infinite				infinite					

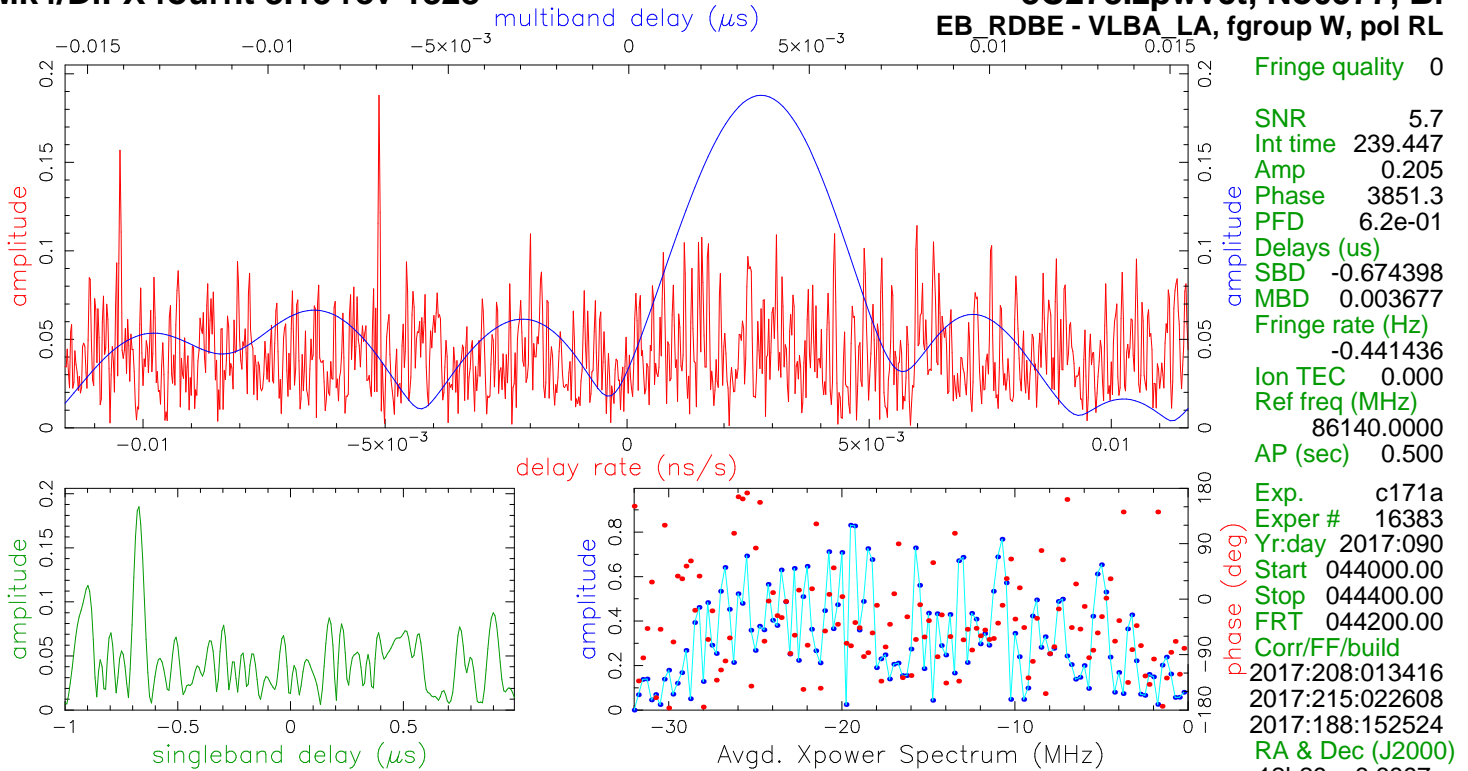


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

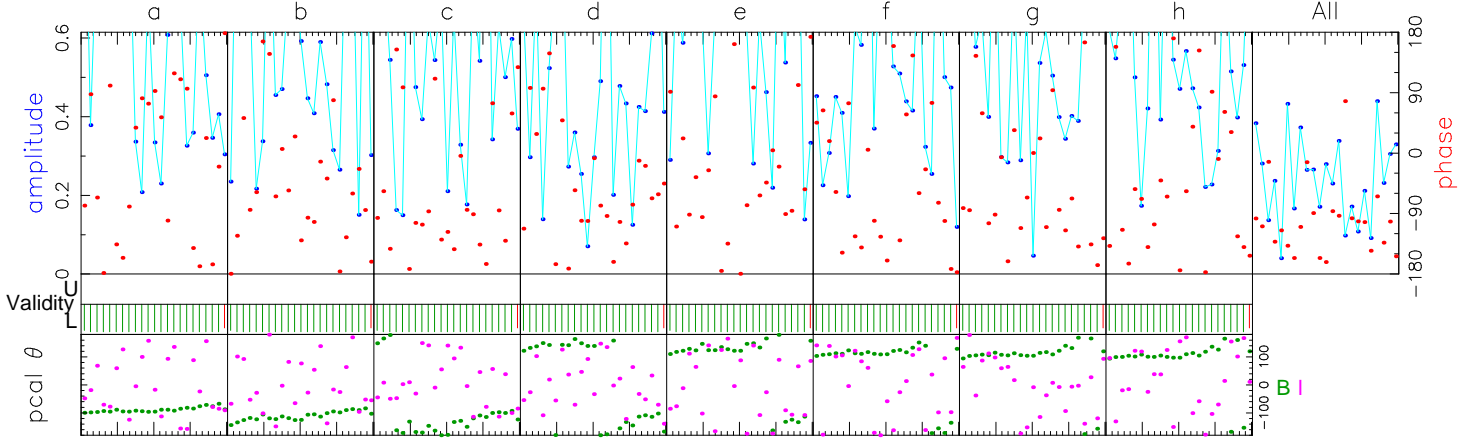


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
I	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
I	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
Group delay (usec)(sbd)		-1.14005437964E+04		Apriori delay (usec)		-1.14008739711E+04		Resid mbdelay (usec)		-1.35752E-02 +/- 3.4E-04
Sband delay (usec)		-1.14005574641E+04		Apriori clock (usec)		3.3012909E+01		Resid sbdelay (usec)		3.16507E-01 +/- 2.7E-03
Phase delay (usec)		-1.14008739696E+04		Apriori clockrate (us/s)		7.6213009E-08		Resid phdelay (usec)		1.56401E-06 +/- 5.7E-07
Delay rate (us/s)		-1.68183104549E+00		Apriori rate (us/s)		-1.68184246359E+00		Resid rate (us/s)		1.14181E-05 +/- 4.1E-09
Total phase (deg)			-2245.6	Apriori accel (us/s/s)		6.15133901048E-05		Resid phase (deg)		-1931.5 +/- 17.8

RMS Theor. Amplitude 0.333 +/- 0.052 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 42.1 42.6 Search (1024X32) 0.193 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 44.4 74.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 23.2 25.1 Inc. seg. avg. 0.316 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 29.6 43.9 Inc. frq. avg. 0.317 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

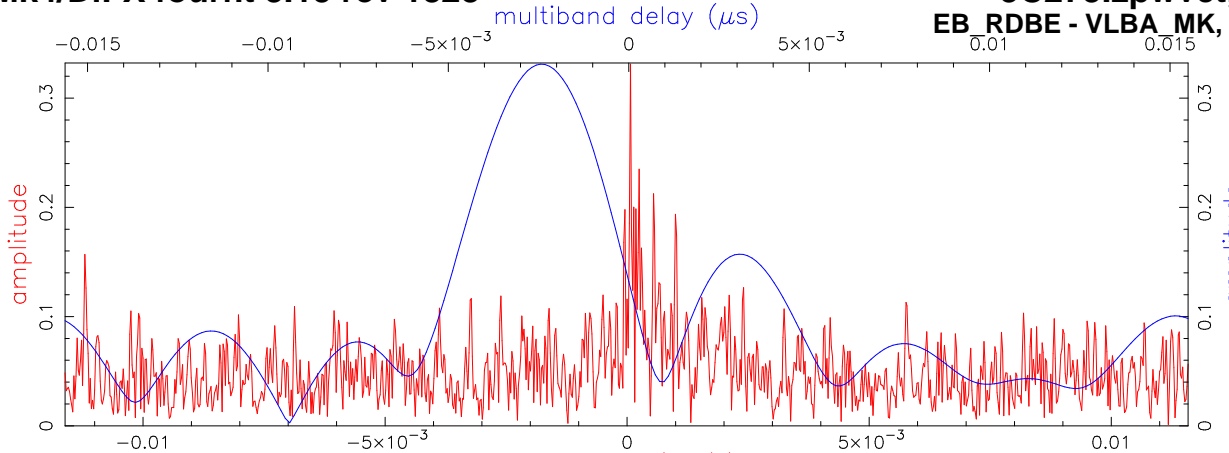


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

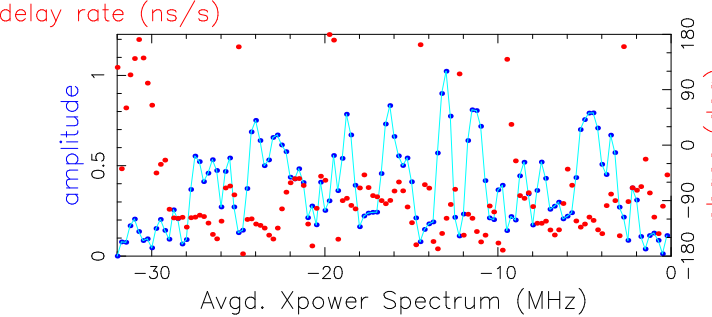
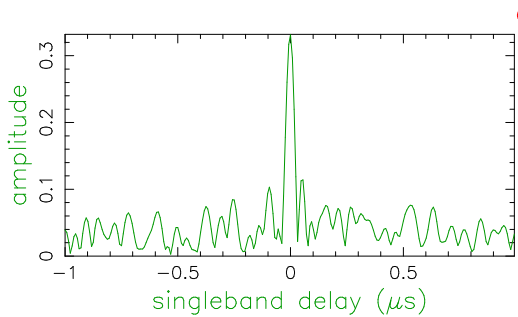


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-176.2	-83.6	-129.1	-74.5	-100.3	-99.0	-110.4	-125.5	Phase	-108.7
	0.1	0.3	0.3	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
	108.5	161.0	44.3	33.9	151.5	151.3	166.1	23.2	Sbd box	42.7
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
I	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
I	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		-1.14015577938E+04		Apriori delay (usec)		-1.14008739711E+04		Resid mbdelay (usec)	3.67730E-03	+/- 3.8E-04
Sband delay (usec)		-1.14015483696E+04		Apriori clock (usec)		3.3012909E+01		Resid sbdelay (usec)	-6.74398E-01	+/- 3.0E-03
Phase delay (usec)		-1.14008739746E+04		Apriori clockrate (us/s)		7.6213009E-08		Resid phdelay (usec)	-3.50534E-06	+/- 6.5E-07
Delay rate (us/s)		-1.68184758822E+00		Apriori rate (us/s)		-1.68184246359E+00		Resid rate (us/s)	-5.12463E-06	+/- 4.7E-09
Total phase (deg)			3897.2	Apriori accel (us/s/s)		6.15133901048E-05		Resid phase (deg)	3851.3	+/- 20.3

	RMS	Theor.	Amplitude	0.205 +/- 0.036	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	53.1	48.6	Search (1024X32)	0.182	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
amp/seg (%)	63.6	84.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.012	0.012
ph/frq (deg)	34.7	28.7	Inc. seg. avg.	0.193	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
amp/frq (%)	31.4	50.0	Inc. frq. avg.	0.200	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite			

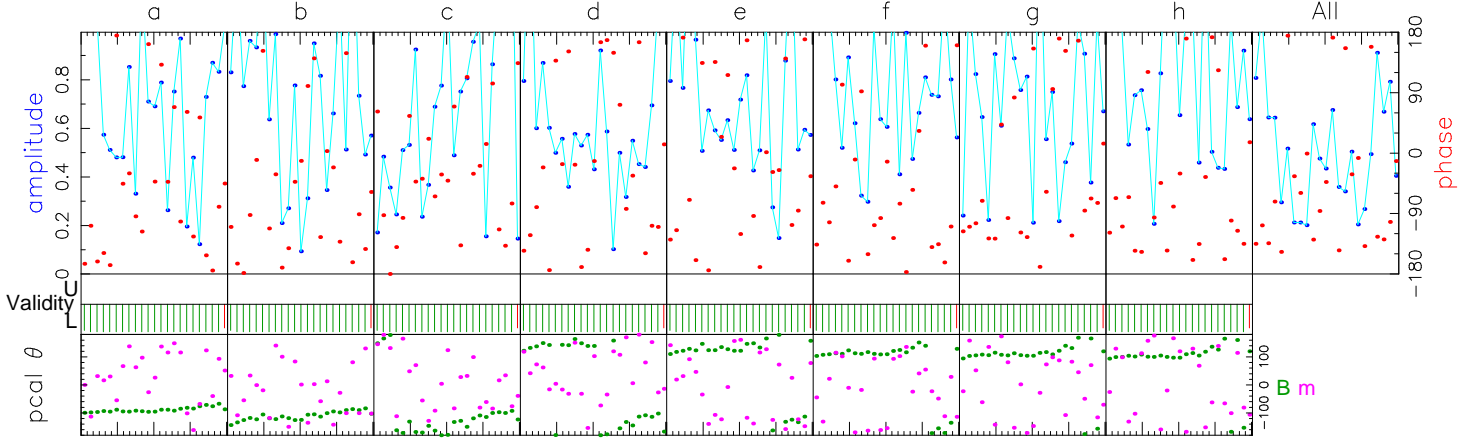


Fringe quality 9
SNR 9.9
Int time 239.447
Amp 0.332
Phase -117.5
PFD 3.0e-15
Delays (us)
SBD -0.001605
MBD -0.002425
Fringe rate (Hz) 0.005544
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500



Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022609
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2°03' 8.598"

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



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Group delay (usec)(sbd)	8.14014241134E+02		Apriori delay (usec)		8.14016666364E+02		Resid mbdelay (usec)		-2.42523E-03	+/- 2.2E-04
Sband delay (usec)	8.14015061364E+02		Apriori clock (usec)		2.7722023E+01		Resid sbdelay (usec)		-1.60500E-03	+/- 1.7E-03
Phase delay (usec)	8.14016662574E+02		Apriori clockrate (us/s)		3.8340011E-08		Resid phdelay (usec)		-3.78992E-06	+/- 3.7E-07
Delay rate (us/s)	-2.41986880108E+00		Apriori rate (us/s)		-2.41986886544E+00		Resid rate (us/s)		6.43647E-08	+/- 2.7E-09
Total phase (deg)	113.1		Apriori accel (us/s/s)		-2.50168220072E-06		Resid phase (deg)		-117.5	+/- 11.5

ph/seg (deg) 62.5 27.6
amp/seg (%) 89.5 48.3
ph/frq (deg) 23.3 16.3
amp/frq (%) 25.5 28.5

RMS Theor. Amplitude 0.332 +/- 0.033
Search (1024X32) 0.318
Interp. 0.000
Inc. seg. avg. 0.458
Inc. frq. avg. 0.335

Group delay (usec)(sbd) 8.14014241134E+02
Sband delay (usec) 8.14015061364E+02
Phase delay (usec) 8.14016662574E+02
Delay rate (us/s) -2.41986880108E+00
Total phase (deg) 113.1

Apriori delay (usec) 8.14016666364E+02
Apriori clock (usec) 2.7722023E+01
Apriori clockrate (us/s) 3.8340011E-08
Apriori rate (us/s) -2.41986886544E+00
Apriori accel (us/s/s) -2.50168220072E-06

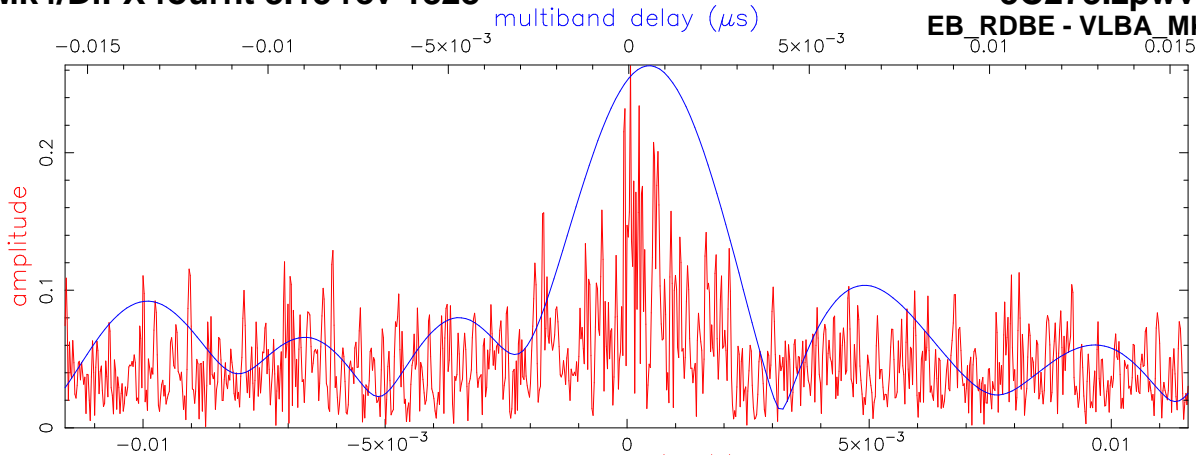
Resid mbdelay (usec) -2.42523E-03
Resid sbdelay (usec) -1.60500E-03
Resid phdelay (usec) -3.78992E-06
Resid rate (us/s) 6.43647E-08
Resid phase (deg) -117.5

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

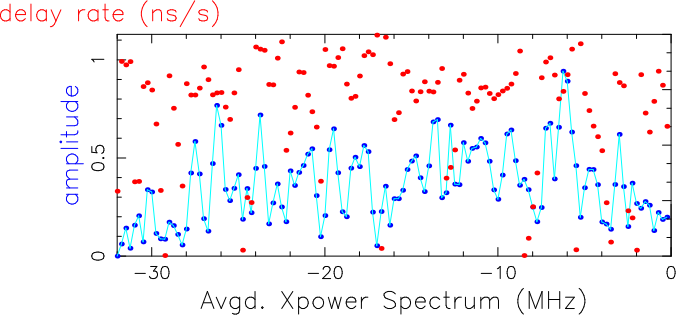
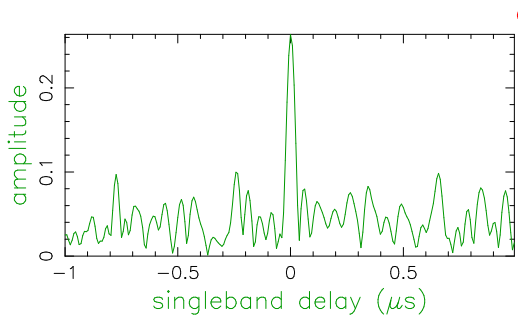
PC period (AP's) 5, 5
sb window (us) -1.000 1.000
SampCntNorm: enabled
mb window (us) -0.016 0.016
dr window (ns/s) -0.012 0.012
ion window (TEC) 0.00 0.00

B: az 262.0 el 9.0 pa 39.1
m: az 90.1 el 6.1 pa -70.3
u,v (fr/asec) 13865.230 3817.252

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Bm..zpwwct Output file: /Exps/c171a/gmva/1234/No0577/Bm.W.57.zpwwct simultaneous interpolator

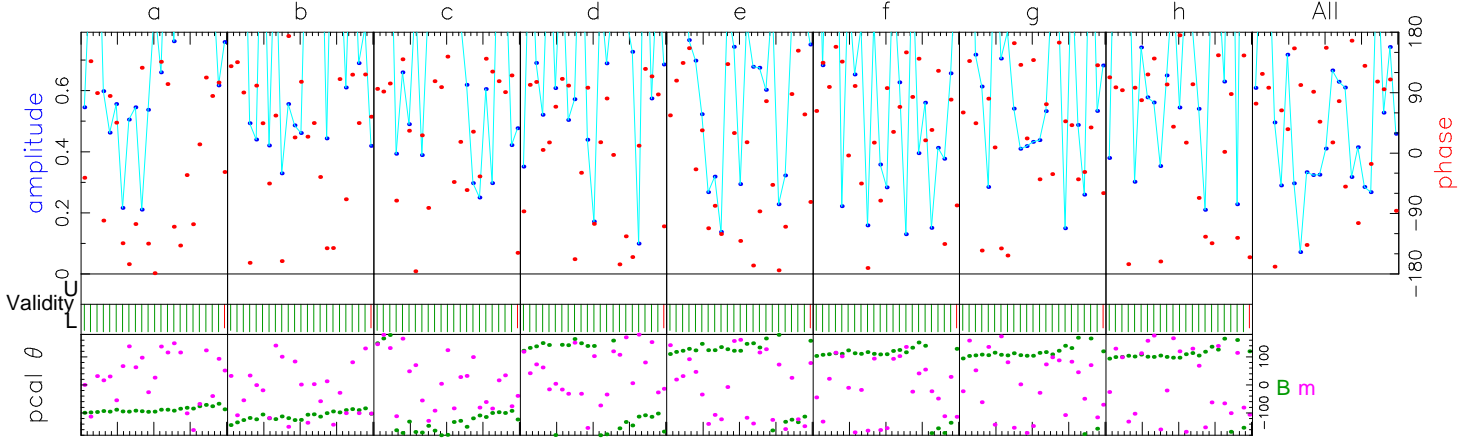


Fringe quality 9
 SNR 7.9
 Int time 239.447
 Amp 0.264
 Phase 96.9
 PFD 2.5e-07
 Delays (us)
 SBD 0.001315
 MBD 0.000551
 Fringe rate (Hz)
 0.005620
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022610
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2°03' 8.598"

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

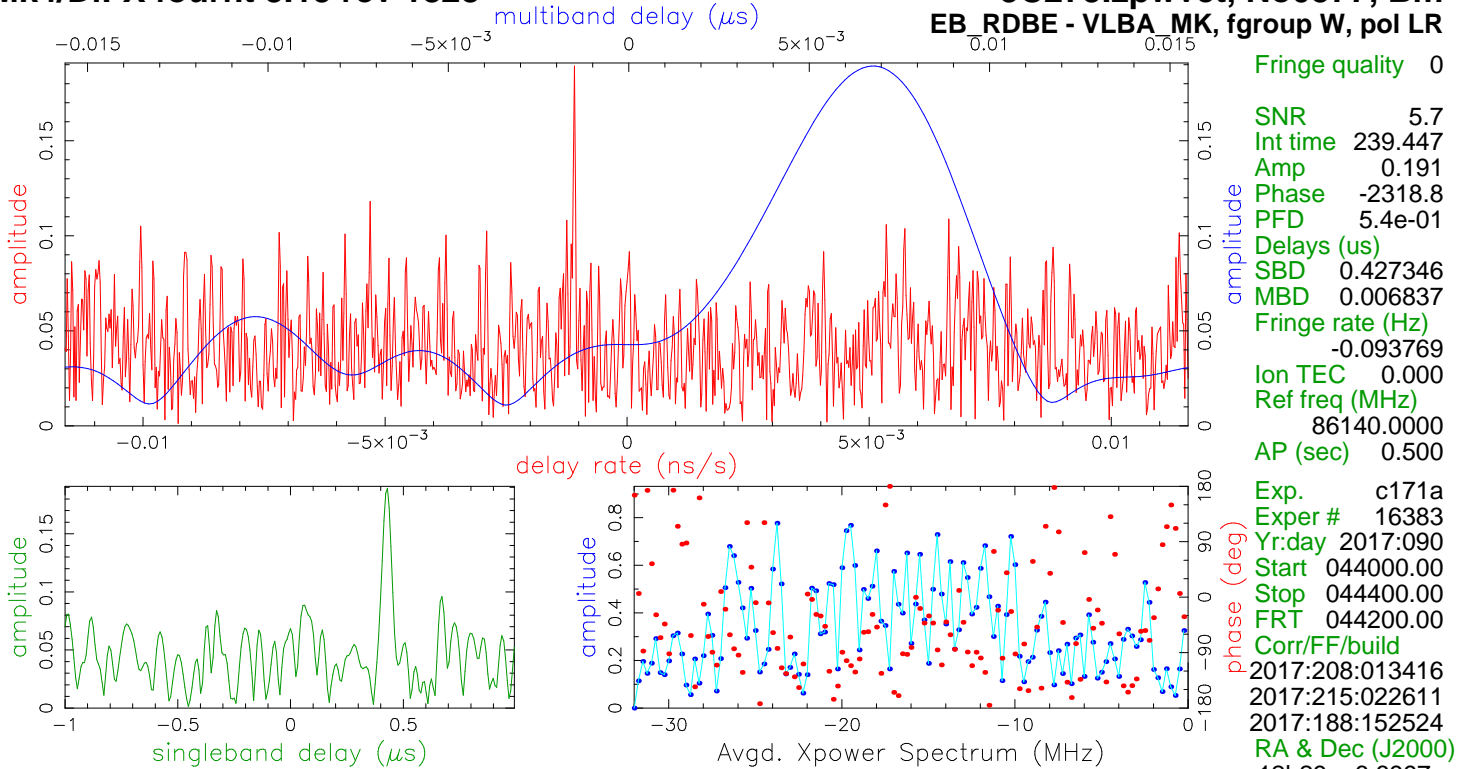


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	130.5	96.9
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	0.2	0.3
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	0.4	0.3
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	193.7	129.2
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0/480	0/480
B	1000	1000	1000	1000	1000	1000	1000	1000	0/480	0/480
m	1000	1000	1000	1000	1000	1000	1000	1000	0/480	0/480
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	0/480	0/480
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	0/480	0/480

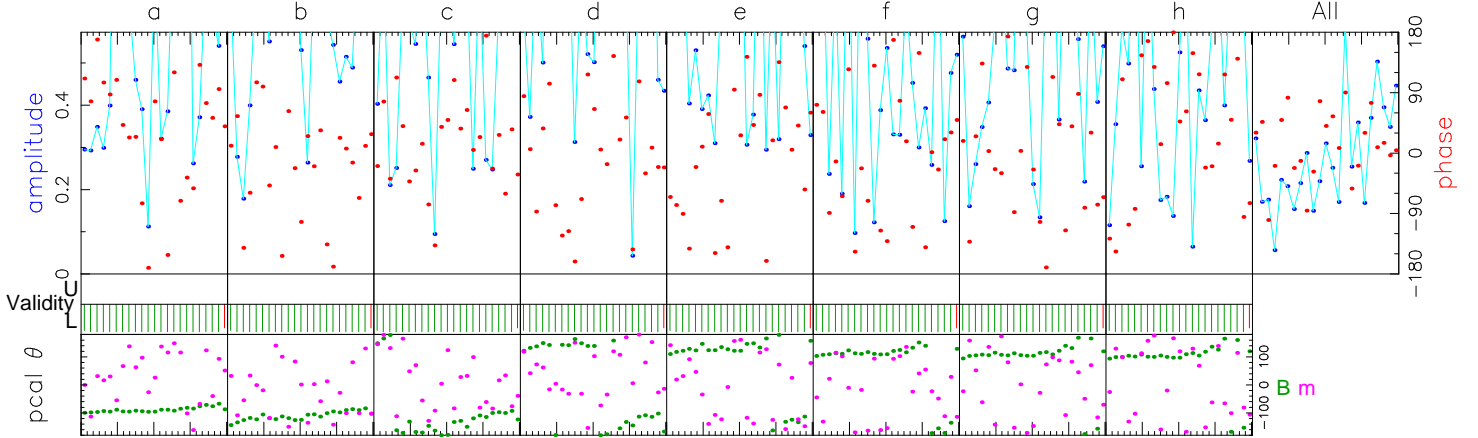
Group delay (usec)(sbd) 8.14017217072E+02 Apriori delay (usec) 8.14016666364E+02 Resid mbdelay (usec) 5.50708E-04 +/- 2.8E-04
 Sband delay (usec) 8.14017981364E+02 Apriori clock (usec) 2.7722023E+01 Resid sbdelay (usec) 1.31500E-03 +/- 2.2E-03
 Phase delay (usec) 8.14016669489E+02 Apriori clockrate (us/s) 3.8340011E-08 Resid phdelay (usec) 3.12494E-06 +/- 4.7E-07
 Delay rate (us/s) -2.41986880020E+00 Apriori rate (us/s) -2.41986886544E+00 Resid rate (us/s) 6.52441E-08 +/- 3.4E-09
 Total phase (deg) 327.5 Apriori accel (us/s/s) -2.50168220072E-06 Resid phase (deg) 96.9 +/- 14.5

RMS Theor. Amplitude 0.264 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 78.4 34.8 Search (1024X32) 0.256 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 146.7 60.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 22.4 20.5 Inc. seg. avg. 0.446 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 35.2 35.8 Inc. frq. avg. 0.261 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 262.0 el 9.0 pa 39.1 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 13865.230 3817.252 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Bm..zpwwct Output file: /Exps/c171a/gmva/1234/No0577/Bm.W.58.zpwwct

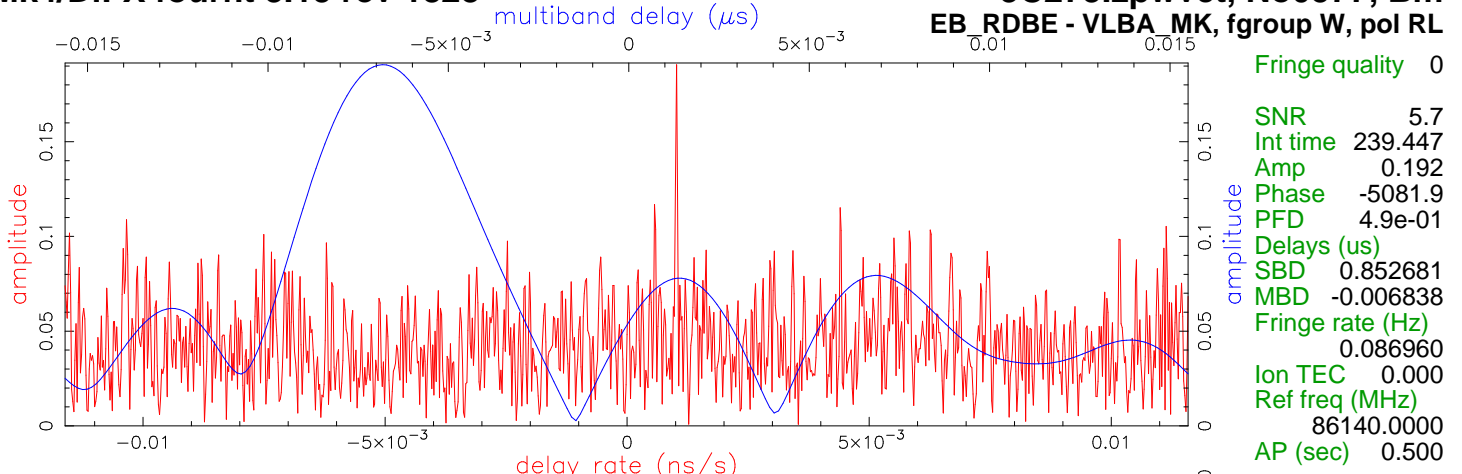


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
m	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)		8.14429752910E+02		Apriori delay (usec)		8.14016666364E+02		Resid mbdelay (usec)		6.83655E-03 +/- 3.8E-04
Sband delay (usec)		8.14444012364E+02		Apriori clock (usec)		2.7722023E+01		Resid sbdelay (usec)		4.27346E-01 +/- 3.0E-03
Phase delay (usec)		8.14016667046E+02		Apriori clockrate (us/s)		3.8340011E-08		Resid phdelay (usec)		6.82499E-07 +/- 6.5E-07
Delay rate (us/s)		-2.41986995401E+00		Apriori rate (us/s)		-2.41986886544E+00		Resid rate (us/s)		-1.08857E-06 +/- 4.7E-09
Total phase (deg)		-2088.2		Apriori accel (us/s/s)		-2.50168220072E-06		Resid phase (deg)		-2318.8 +/- 20.1

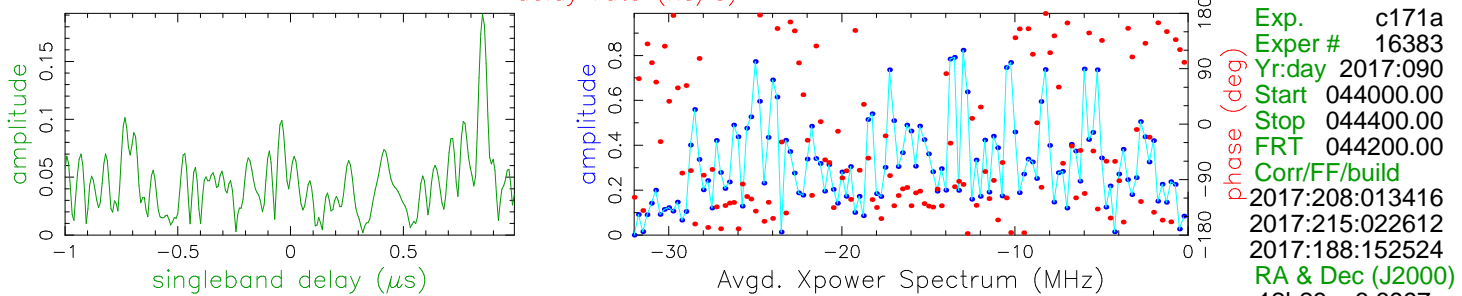
ph/seg (deg) 50.8 48.3 Search (1024X32) 0.185 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 79.3 84.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 37.1 28.5 Inc. seg. avg. 0.204 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 46.6 49.7 Inc. frq. avg. 0.184 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 B: az 262.0 el 9.0 pa 39.1 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 13865.230 3817.252 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Bm..zpwwct Output file: /Exps/c171a/gmva/1234/No0577/Bm.W.59.zpwwct simultaneous interpolator



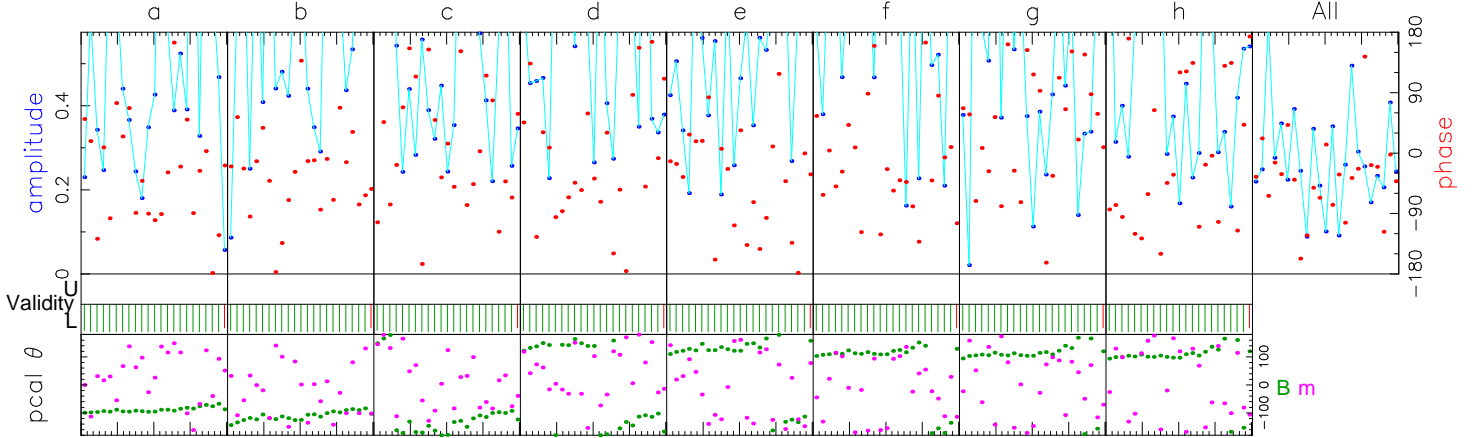
Fringe quality 0

SNR 5.7
Int time 239.447
Amp 0.192
Phase -5081.9
PFD 4.9e-01
Delays (us)
SBD 0.852681
MBD -0.006838
Fringe rate (Hz) 0.086960
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022612
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2°03' 8.598"

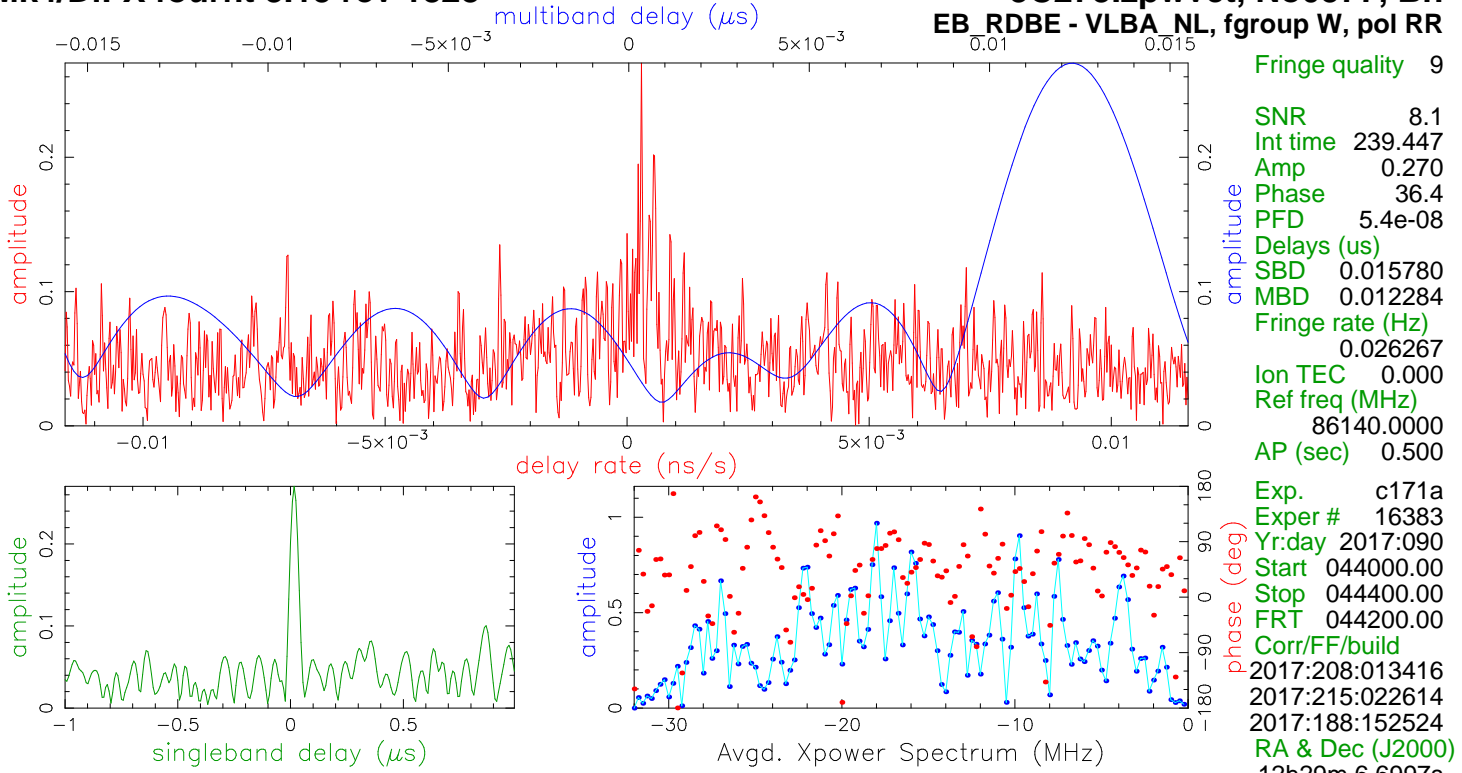


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

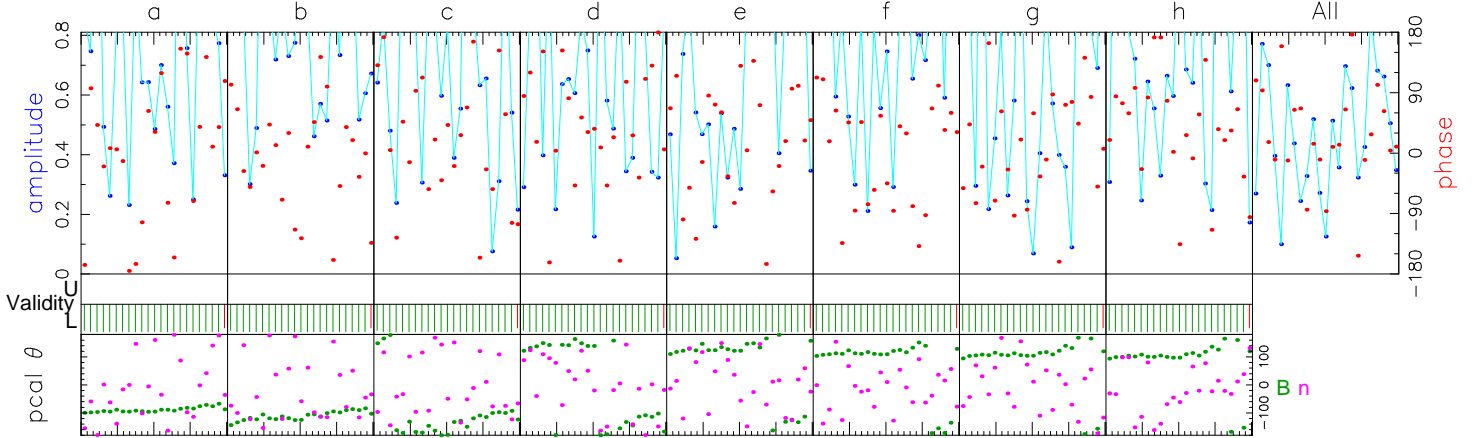


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-52.3	-32.7	-61.5	-53.7	-25.8	-37.9	44.1	-92.1	Phase	-41.9
	0.2	0.4	0.2	0.2	0.2	0.1	0.2	0.2	Ampl.	0.2
	16.8	238.6	69.3	134.9	106.1	245.6	188.0	123.8	Sbd box	238.1
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
m	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
m	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	8.14884828426E+02		Apriori delay (usec)		8.14016666364E+02		Resid mbdelay (usec)		-6.83794E-03	+/- 3.8E-04
Sband delay (usec)	8.14869347364E+02		Apriori clock (usec)		2.7722023E+01		Resid sbdelay (usec)		8.52681E-01	+/- 3.0E-03
Phase delay (usec)	8.14016665013E+02		Apriori clockrate (us/s)		3.8340011E-08		Resid phdelay (usec)		-1.35044E-06	+/- 6.5E-07
Delay rate (us/s)	-2.41986785592E+00		Apriori rate (us/s)		-2.41986886544E+00		Resid rate (us/s)		1.00952E-06	+/- 4.7E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.50168220072E-06		Resid phase (deg)		-5081.9	+/- 20.1

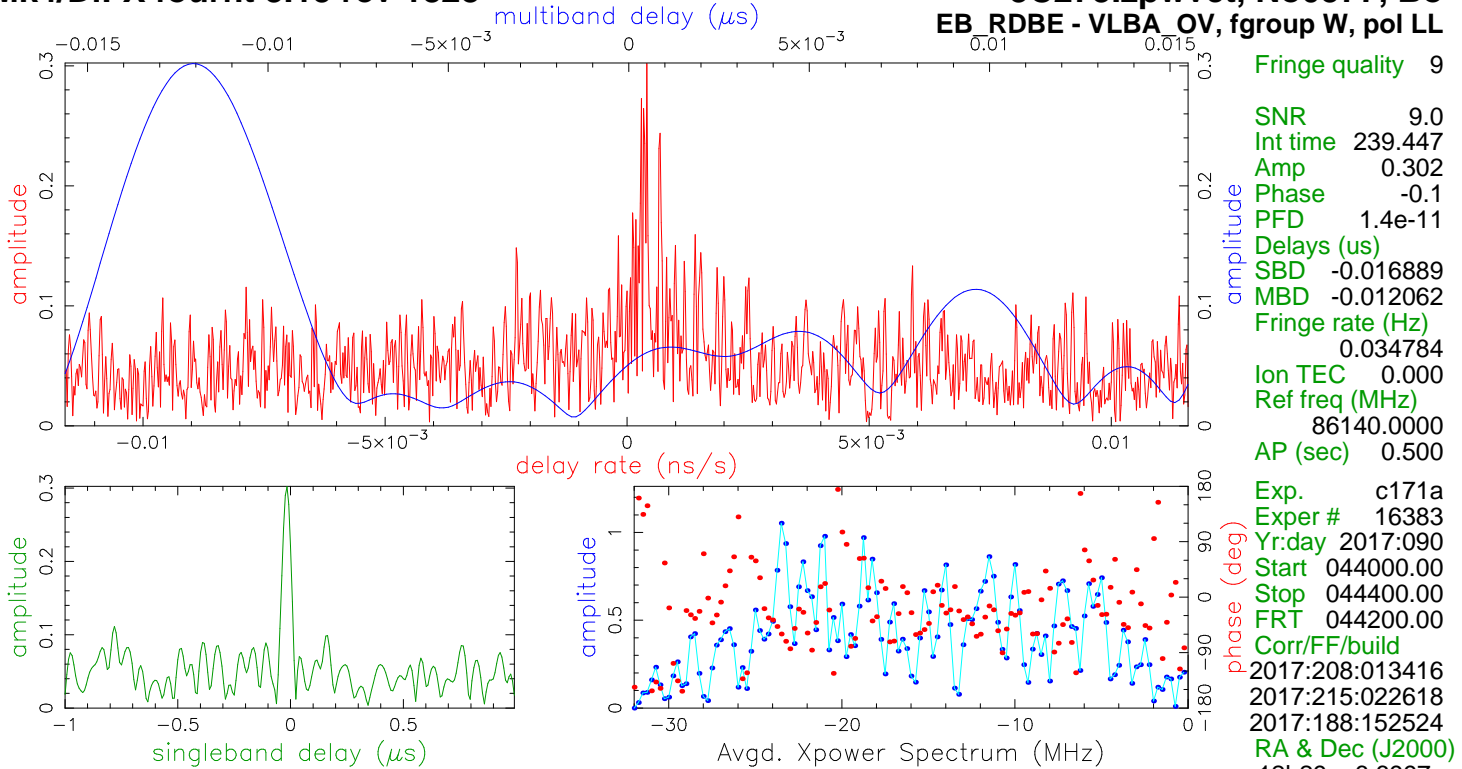
ph/seg (deg) 59.3 48.1 Search (1024X32) 0.173 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 76.9 83.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 42.6 28.4 Inc. seg. avg. 0.204 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 37.0 49.5 Inc. frq. avg. 0.196 Data rate (Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 B: az 262.0 el 9.0 pa 39.1 m: az 90.1 el 6.1 pa -70.3 u,v (fr/asec) 13865.230 3817.252 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Bm..zpwwct Output file: /Exps/c171a/gmva/1234/No0577/Bm.W.60.zpwwct simultaneous interpolator



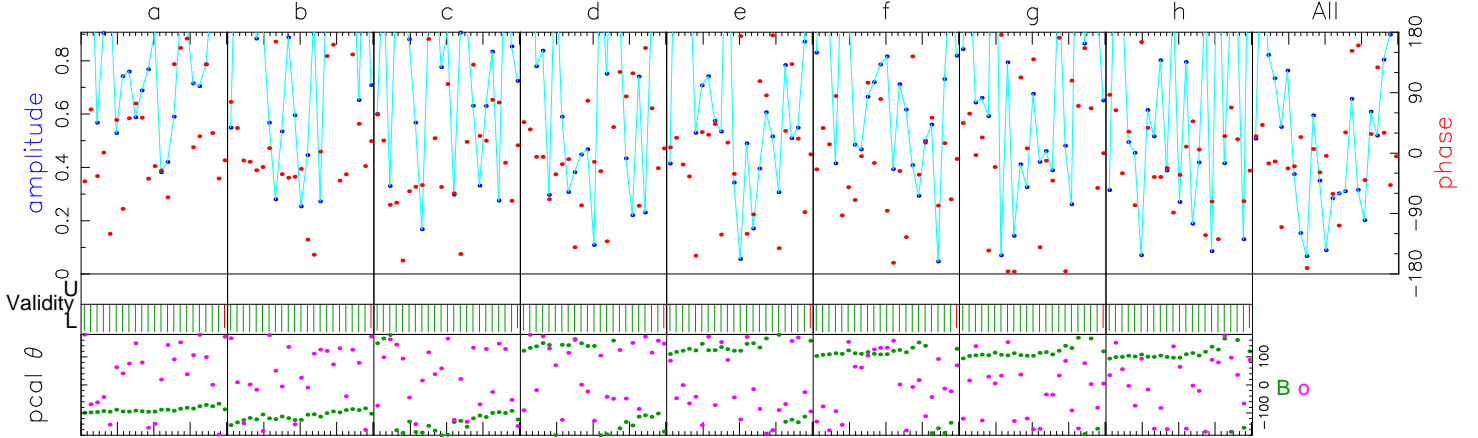
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480			
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used		
n	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC		
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
n	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids		
n	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks		
									Chan ids		
									Tracks		
Group delay (usec)(sbd)		-1.21719096885E+04		Apriori delay (usec)		-1.21719219722E+04		Resid mbdelay (usec)	1.22837E-02	+/- 2.7E-04	
Sband delay (usec)		-1.21719061927E+04		Apriori clock (usec)		2.3367138E+01		Resid sbdelay (usec)	1.57795E-02	+/- 2.1E-03	
Phase delay (usec)		-1.21719219710E+04		Apriori clockrate (us/s)		-3.2134660E-07		Resid phdelay (usec)	1.17306E-06	+/- 4.6E-07	
Delay rate (us/s)		-1.36113847368E+00		Apriori rate (us/s)		-1.36113877862E+00		Resid rate (us/s)	3.04935E-07	+/- 3.3E-09	
Total phase (deg)			-210.4	Apriori accel (us/s/s)		6.52487098866E-05		Resid phase (deg)	36.4	+/- 14.2	
RMS	73.0	34.0		Amplitude	0.270 +/- 0.033			Pcal mode: MANUAL, MANUAL			
ph/seg (deg)	73.0	34.0		Search (1024X32)	0.241			Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
amp/seg (%)	105.8	59.3		Interp.	0.000			Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016 0.016
ph/frq (deg)	24.9	20.0		Inc. seg. avg.	0.400			Sample rate(MSamp/s): 64		dr window (ns/s)	-0.012 0.012
amp/frq (%)	31.6	35.0		Inc. frq. avg.	0.273			Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite	ion window (TEC)	0.00 0.00



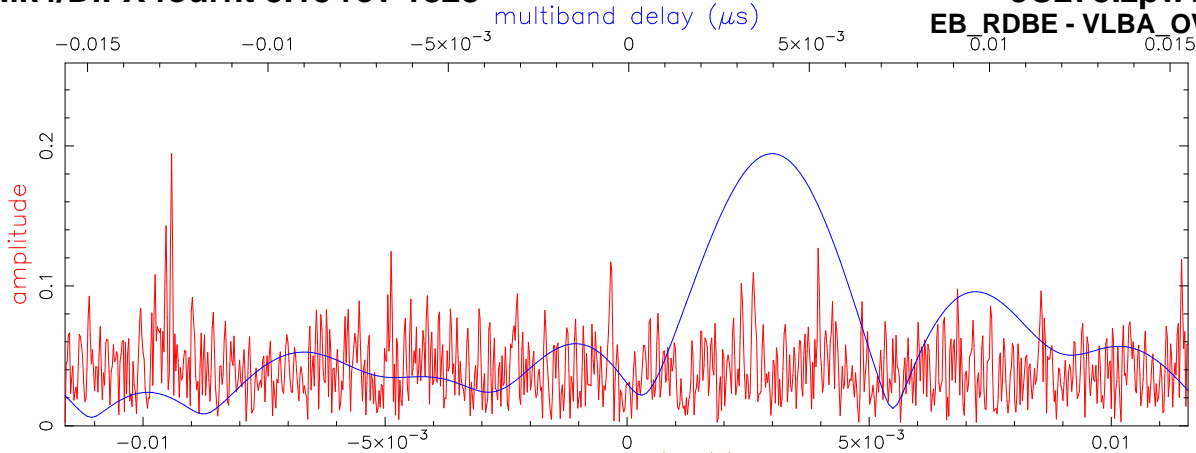
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



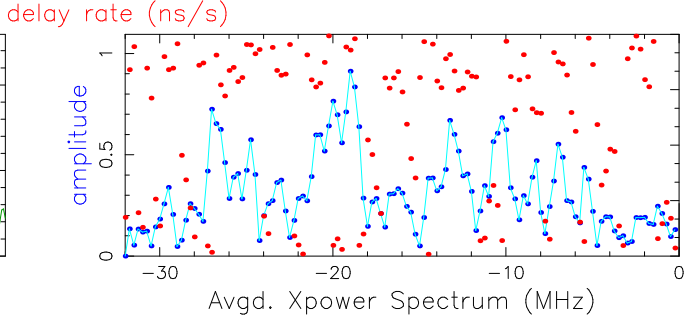
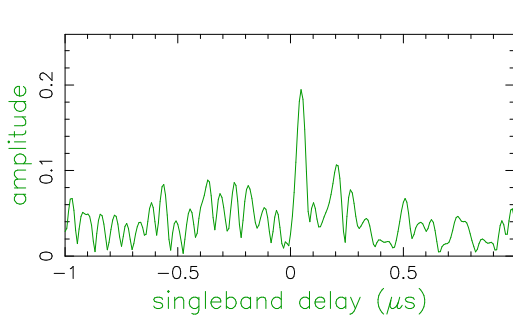
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
o	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	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)	-8.84792245497E+03		Apriori delay (usec)		-8.84791039334E+03		Resid mbdelay (usec)		-1.20616E-02	+/- 2.4E-04
Sband delay (usec)	-8.84792728284E+03		Apriori clock (usec)		2.6561781E+01		Resid sbdelay (usec)		-1.68895E-02	+/- 1.9E-03
Phase delay (usec)	-8.84791039335E+03		Apriori clockrate (us/s)		-2.8424398E-07		Resid phdelay (usec)		-2.80561E-09	+/- 4.1E-07
Delay rate (us/s)	-1.86552852246E+00		Apriori rate (us/s)		-1.86552892626E+00		Resid rate (us/s)		4.03808E-07	+/- 2.9E-09
Total phase (deg)			Apriori accel (us/s/s)		4.78254333880E-05		Resid phase (deg)		-0.1	+/- 12.7
	RMS	Theor.	Amplitude	0.302 +/- 0.033	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	76.5	30.4	Search (1024X32)	0.290	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000
amp/seg (%)	128.2	53.0	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		-0.016	0.016
ph/frq (deg)	25.6	17.9	Inc. seg. avg.	0.467	Sample rate(MSamp/s): 64		dr window (ns/s)		-0.012	0.012
amp/frq (%)	22.4	31.3	Inc. frq. avg.	0.303	Data rate(Mb/s): 1024		ion window (TEC)		0.00	0.00
					nlags: 128 t_cohere infinite					

B: az 262.0 el 9.0 pa 39.1 o: az 117.8 el 34.3 pa -44.6 u,v (fr/asec) 10722.769 1600.927 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Bo..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/Bo.W.65.zpwvct

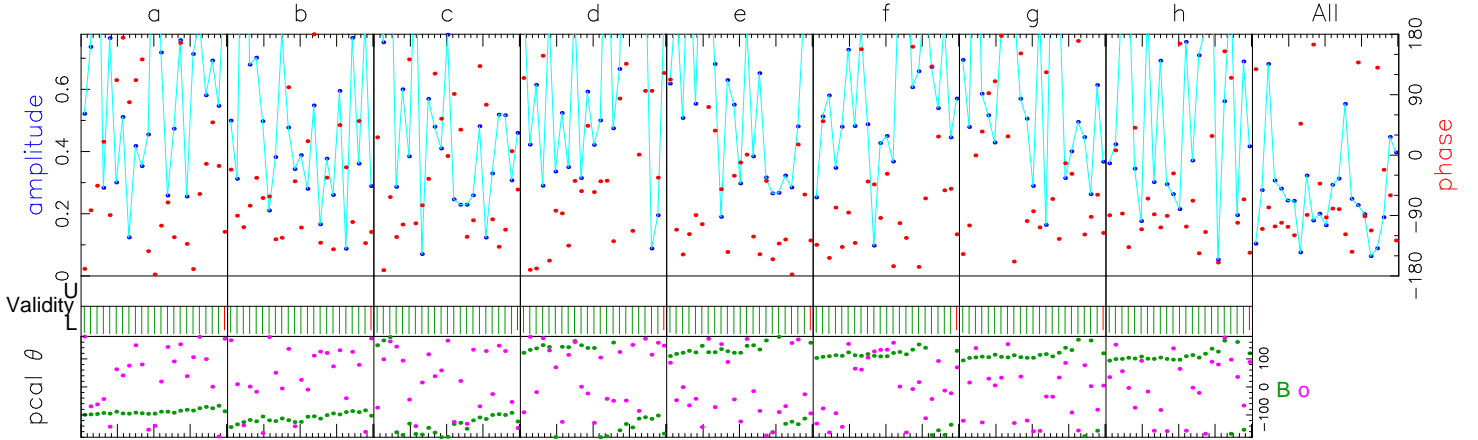


Fringe quality 0
SNR 5.8
Int time 239.447
Amp 0.259
Phase -279.4
PFD 3.1e-01
Delays (us)
SBD 0.047431
MBD 0.003983
Fringe rate (Hz)
-0.811217
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

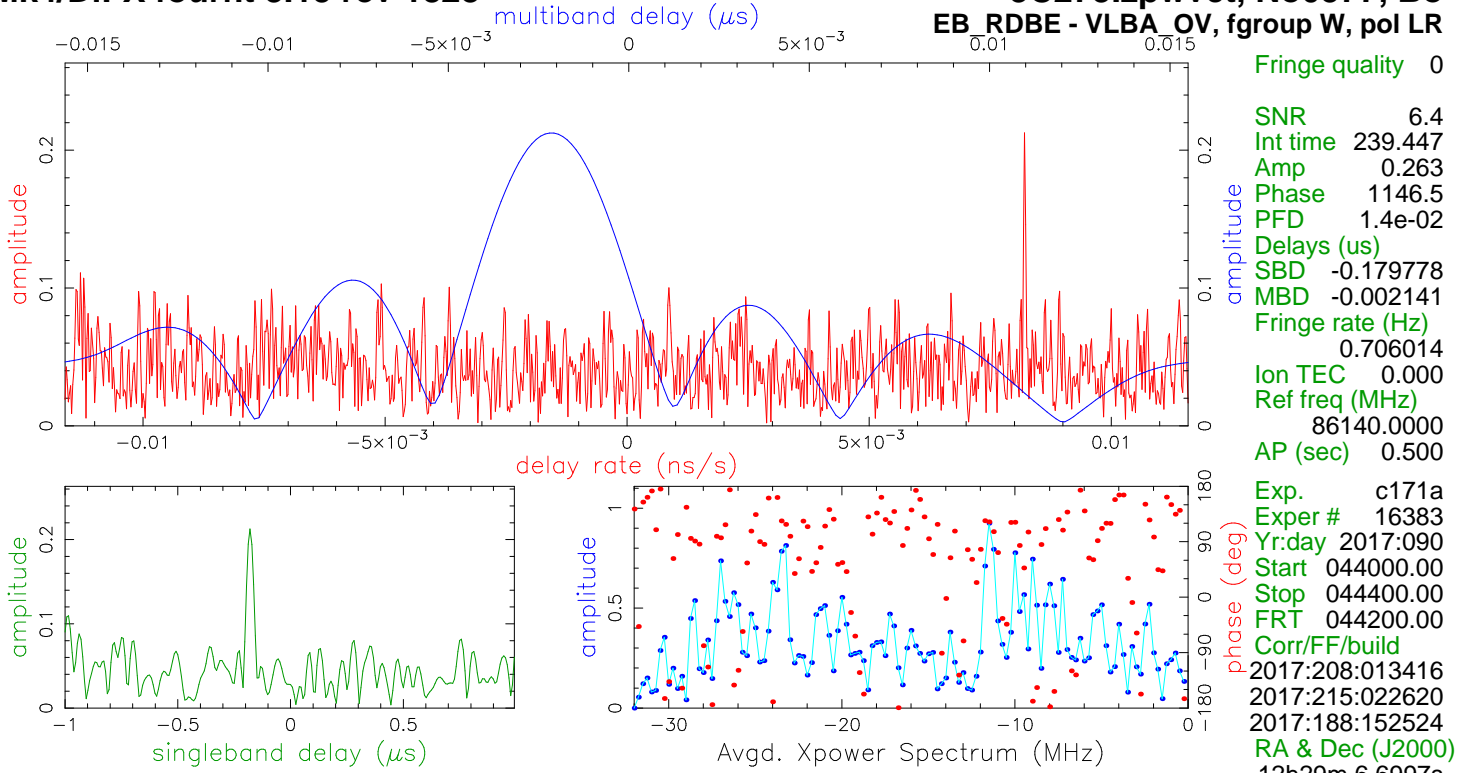


Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022619
2017:188:152524
RA & Dec (J2000)
12h29m 6.6992"
+2° 03' 8.598"

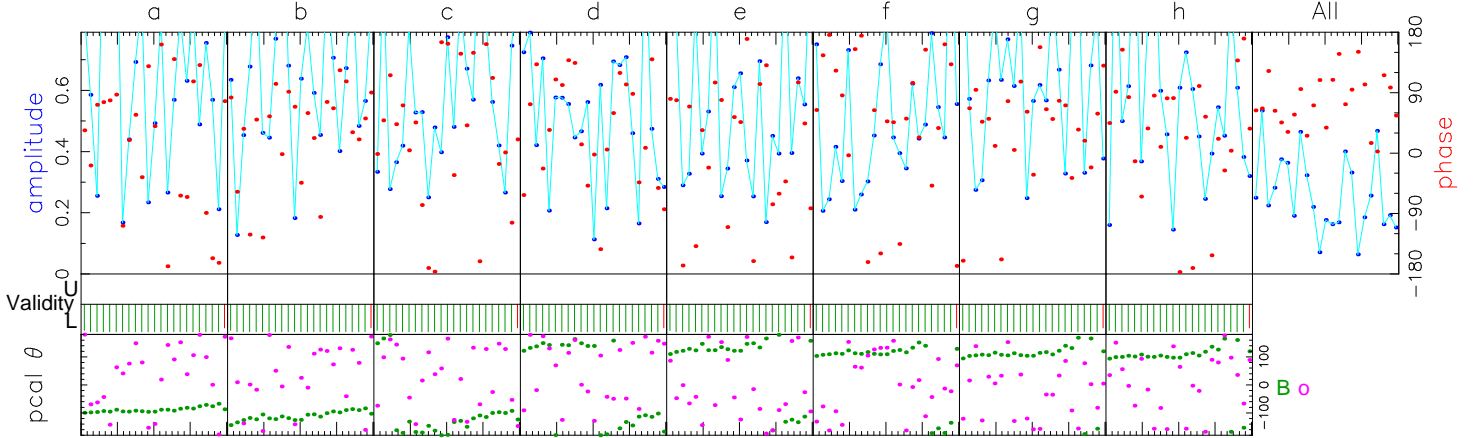
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
o	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
o	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)	-8.84787516040E+03	-8.84786296234E+03	-8.84791039655E+03	-1.86553834369E+00	-8.84791039334E+03	-2.8424398E-07	-1.86552892626E+00	3.98294E-03		+/- 3.7E-04
Sband delay (usec)	-116.0	-88.6	-74.8	-151.9	-95.7	-110.2	-94.9	-99.3		+/- 3.0E-03
Phase delay (usec)	0.3	0.4	0.2	0.0	0.3	0.4	0.2	0.3		+/- 6.3E-07
Delay rate (us/s)	165.6	60.0	21.9	190.9	247.3	83.7	140.9	5.0		+/- 4.6E-09
Total phase (deg)	0.3	0.4	0.2	0.0	0.3	0.4	0.2	0.3		+/- 19.7
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)										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
Search (1024X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
u,v (fr/asec)										
nlags: 128										
t_cohere infinite										
simultaneous interpolator										

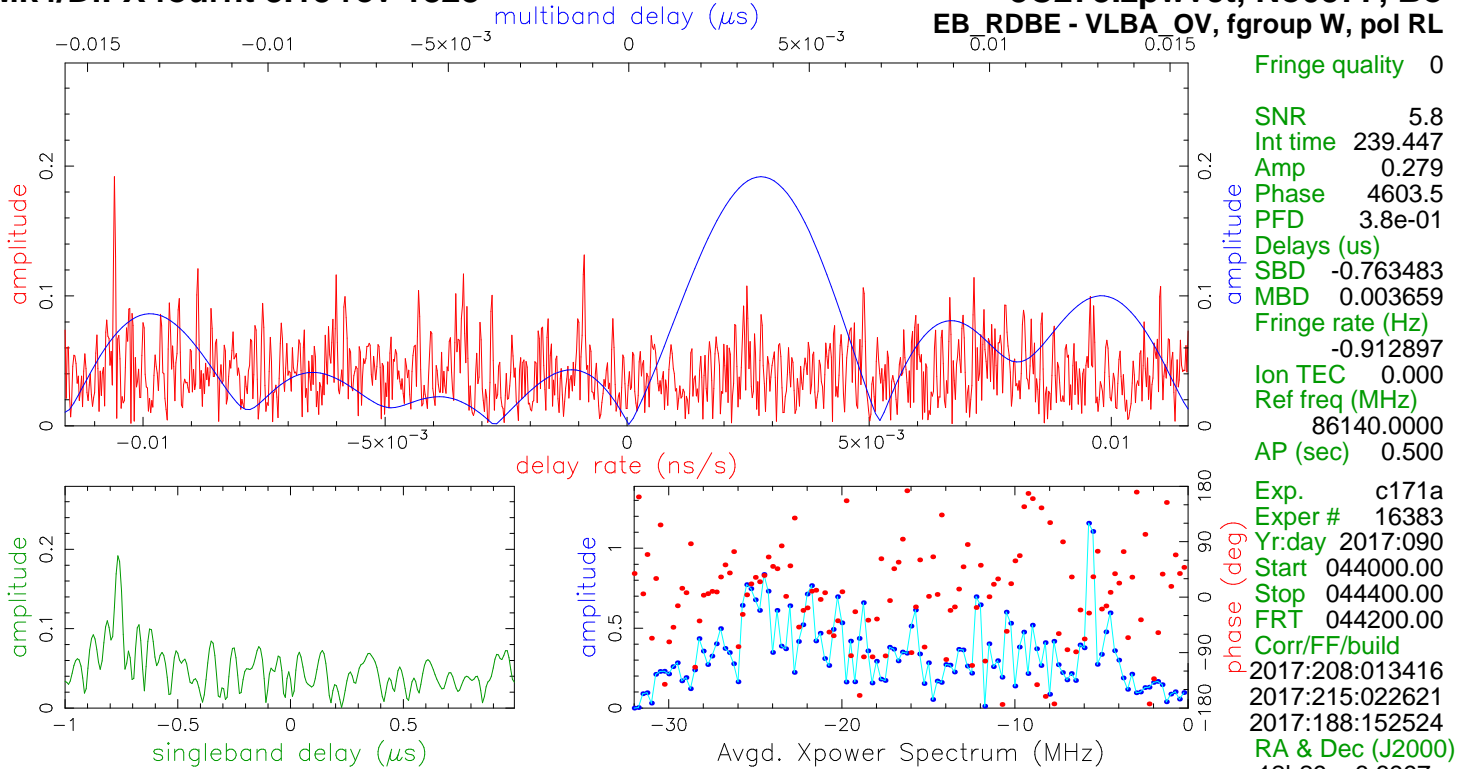


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

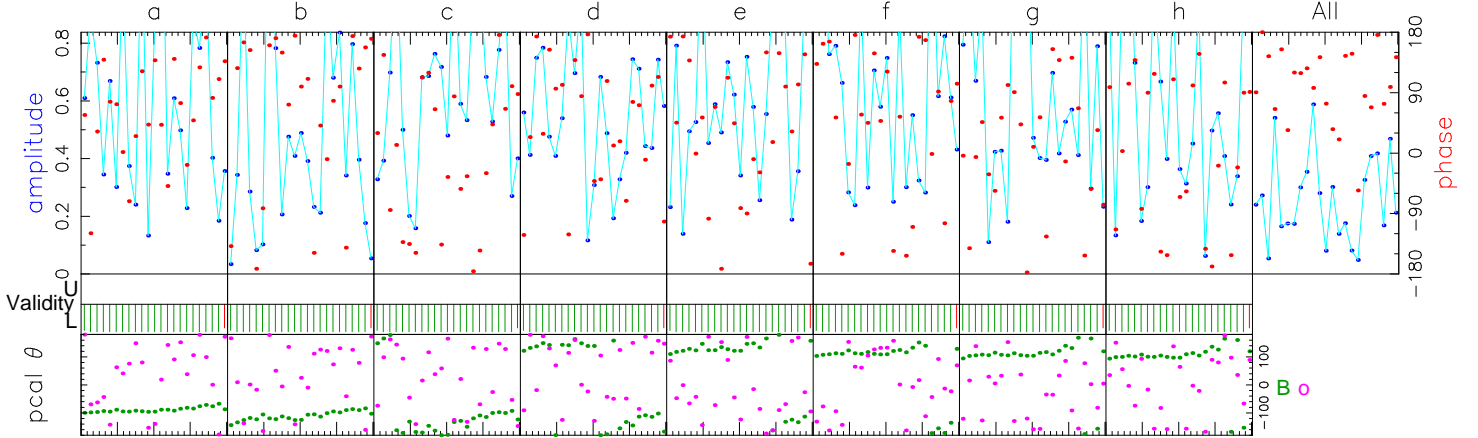


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
70.7	52.3	101.2	64.9	69.2	101.5	54.5	61.3	61.3	Phase	66.5
0.3	0.5	0.1	0.2	0.2	0.2	0.4	0.3	0.3	Ampl.	0.3
212.3	104.5	65.7	61.1	136.7	91.9	106.7	106.5	106.5	Sbd box	106.0
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
o -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:o 0:0	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	1000	PC amp	
o 1000	1000	1000	1000	1000	1000	1000	1000	1000		
B 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)	-8.84810003441E+03		Apriori delay (usec)	-8.84791039334E+03		Resid mbdelay (usec)	-2.14107E-03	+/-	3.4E-04	
Sband delay (usec)	-8.84809017084E+03		Apriori clock (usec)	2.6561781E+01		Resid sbdelay (usec)	-1.79778E-01	+/-	2.7E-03	
Phase delay (usec)	-8.84791039120E+03		Apriori clockrate (us/s)	-2.8424398E-07		Resid phdelay (usec)	2.14499E-06	+/-	5.8E-07	
Delay rate (us/s)	-1.86552073015E+00		Apriori rate (us/s)	-1.86552892626E+00		Resid rate (us/s)	8.19612E-06	+/-	4.2E-09	
Total phase (deg)		1044.8	Apriori accel (us/s/s)	4.78254333880E-05		Resid phase (deg)	1146.5	+/-	18.0	

ph/seg (deg) 40.7 43.2 Search (1024X32) 0.193 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 62.7 75.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 21.7 25.5 Inc. seg. avg. 0.253 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 42.5 44.5 Inc. frq. avg. 0.250 Data rate (Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 B: az 262.0 el 9.0 pa 39.1 o: az 117.8 el 34.3 pa -44.6 u,v (fr/asec) 10722.769 1600.927 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Bo..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/Bo.W.67.zpwvct simultaneous interpolator



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

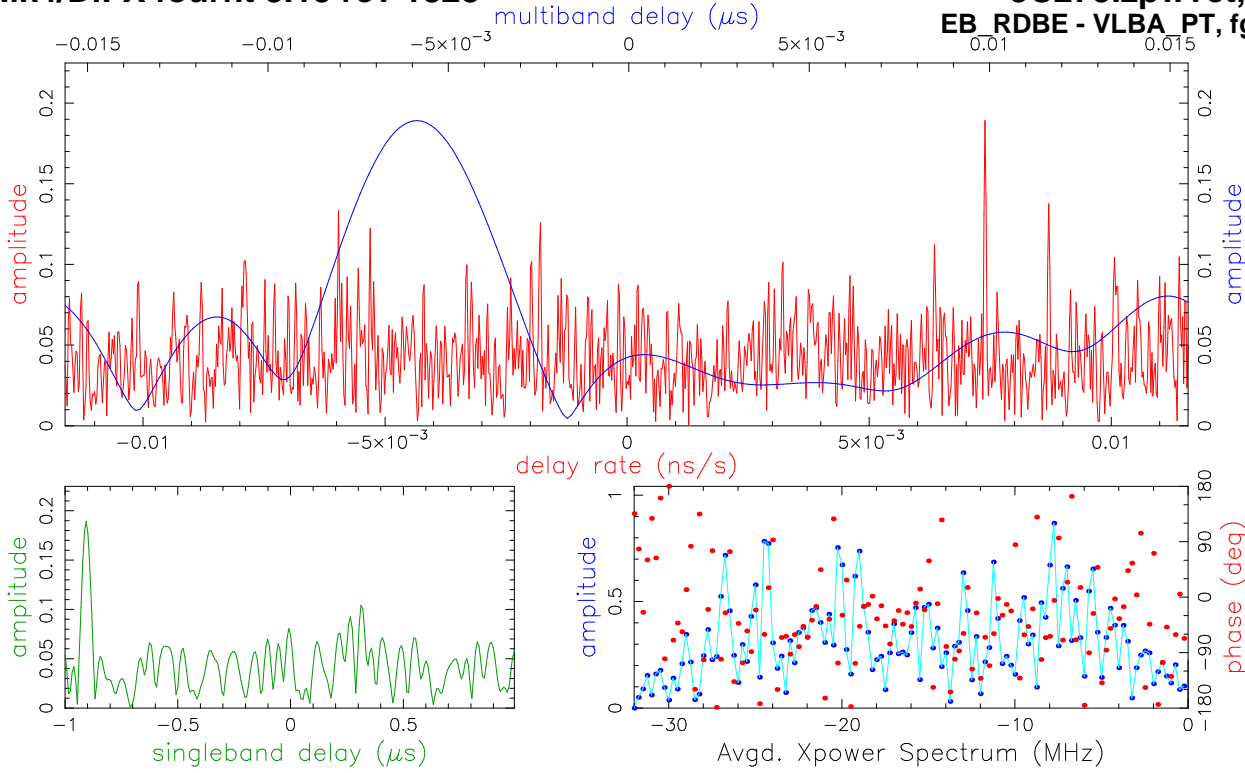


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
82.4	139.6	97.0	88.8	92.7	113.1	74.6	111.1	Phase	103.5
0.4	0.4	0.1	0.2	0.3	0.3	0.2	0.4	Ampl.	0.3
42.4	31.8	219.2	179.9	85.0	119.2	27.8	63.9	Sbd box	31.3
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
o -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:0 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:0 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	
o 1000	1000	1000	1000	1000	1000	1000	1000		
B W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
o W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-8.84868798428E+03		Apriori delay (usec)	-8.84791039334E+03		Resid mbdelay (usec)	3.65907E-03	+/-	3.8E-04
Sband delay (usec)	-8.84867387584E+03		Apriori clock (usec)	2.6561781E+01		Resid sbdelay (usec)	-7.63483E-01	+/-	3.0E-03
Phase delay (usec)	-8.84791039000E+03		Apriori clockrate (us/s)	-2.8424398E-07		Resid phdelay (usec)	3.33910E-06	+/-	6.4E-07
Delay rate (us/s)	-1.86553952410E+00		Apriori rate (us/s)	-1.86552892626E+00		Resid rate (us/s)	-1.05978E-05	+/-	4.6E-09
Total phase (deg)		4501.8	Apriori accel (us/s/s)	4.78254333880E-05		Resid phase (deg)	4603.5	+/-	19.8

ph/seg (deg) 55.2 Theor. 47.6 Amplitude 0.279 +/- 0.048 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 84.3 83.0 Search (1024X32) 0.179 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 22.8 28.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 40.5 49.0 Inc. seg. avg. 0.280 Data rate (MSamp/s): 64 Sample rate (MHz): 86.140 dr window (ns/s) -0.012 0.012
 Inc. frq. avg. 0.265 Data rate (Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 262.0 el 9.0 pa 39.1 o: az 117.8 el 34.3 pa -44.6 u,v (fr/asec) 10722.769 1600.927 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Bo..zpwvct Output file: /Exps/c171a/gmva/1234/No0577/Bo.W.68.zpwvct

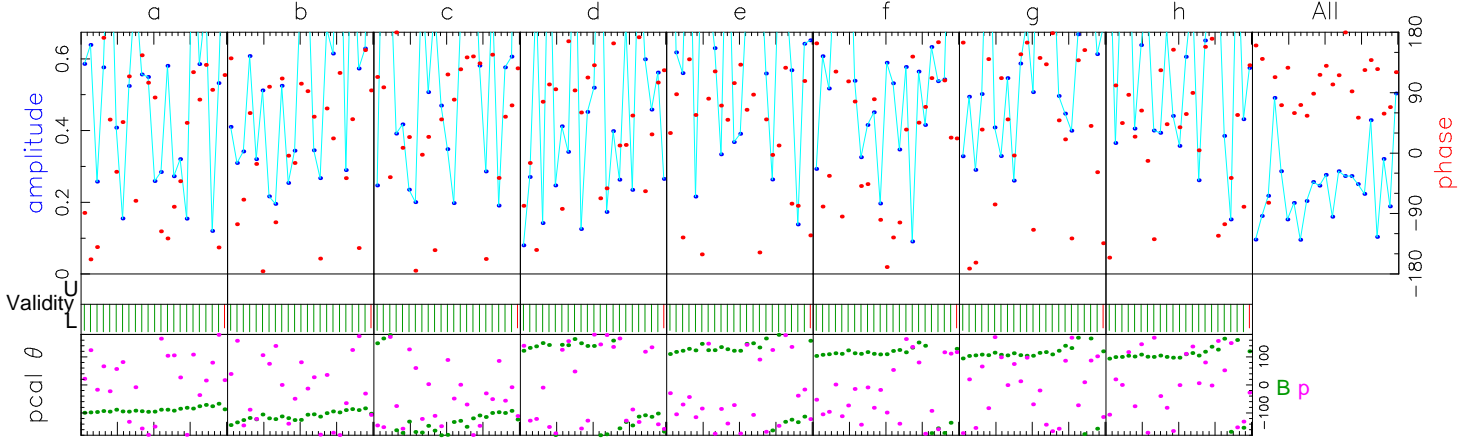


Fringe quality 0

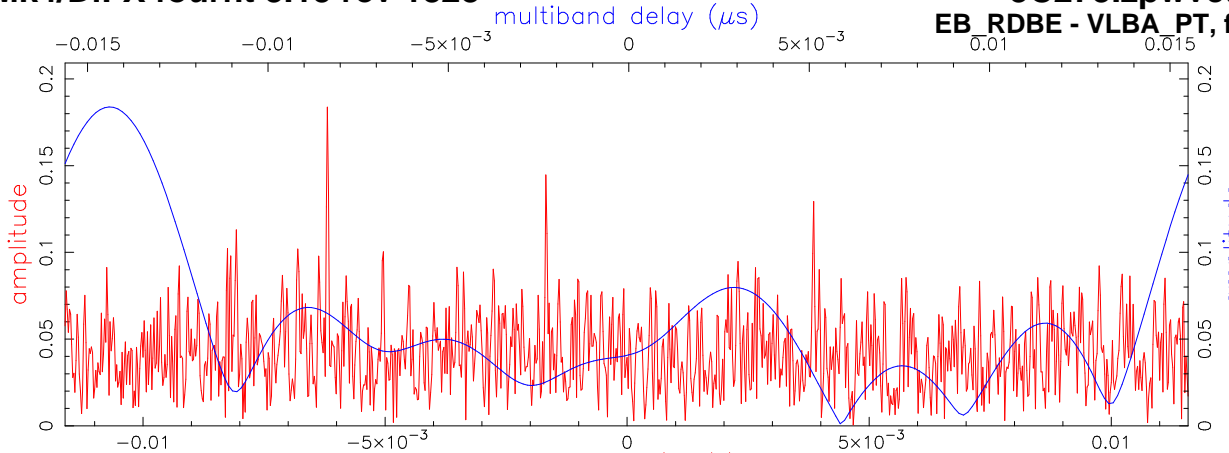
SNR 5.7
Int time 239.447
Amp 0.225
Phase 5325.5
PFD 6.0e-01
Delays (us)
SBD -0.906648
MBD -0.005866
Fringe rate (Hz) 0.636964
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022622
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2° 03' 8.598"

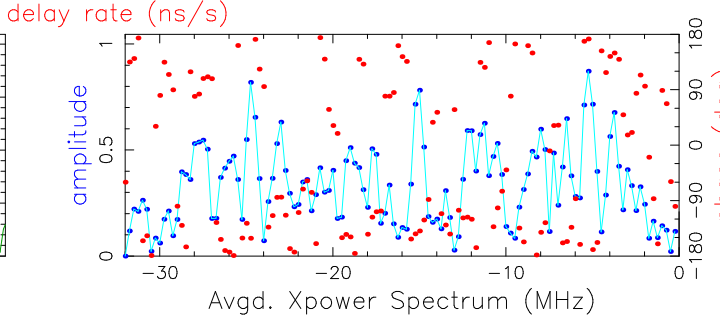
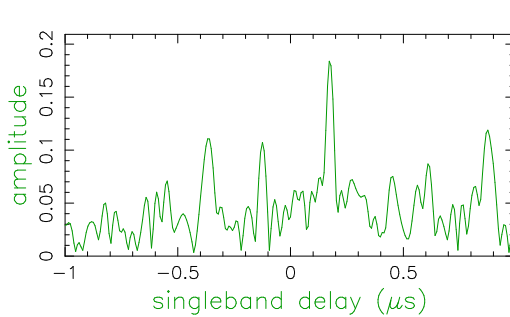
Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480			
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000			
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000			
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
B	1000	1000	1000	1000	1000	1000	1000	1000			
p	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL			
p	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL			
Group delay (usec)(sbd)		-1.13187314279E+04		Apriori delay (usec)		-1.13178193122E+04		Resid mbdelay (usec)	-5.86572E-03	+/- 3.8E-04	
Sband delay (usec)		-1.13187259602E+04		Apriori clock (usec)		2.6364681E+01		Resid sbdelay (usec)	-9.06648E-01	+/- 3.0E-03	
Phase delay (usec)		-1.13178193088E+04		Apriori clockrate (us/s)		-2.9093478E-07		Resid phdelay (usec)	3.40080E-06	+/- 6.5E-07	
Delay rate (us/s)		-1.72898645495E+00		Apriori rate (us/s)		-1.72899384947E+00		Resid rate (us/s)	7.39452E-06	+/- 4.7E-09	
Total phase (deg)		5127.7		Apriori accel (us/s/s)		6.11173478166E-05		Resid phase (deg)	5325.5	+/- 20.2	
RMS	50.7	48.5	Search (1024X32)	0.185	0.225 +/- 0.040		PCal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		
ph/seg (deg)	63.9	84.7	Interp.	0.000			PCal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
amp/seg (%)	26.1	28.6	Inc. seg. avg.	0.216			Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016 0.016
ph/frq (deg)	35.8	50.0	Inc. frq. avg.	0.216			Sample rate(MSamp/s): 64			dr window (ns/s)	-0.012 0.012
amp/frq (%)							Data rate(Mb/s): 1024			ion window (TEC)	0.00 0.00
B: az 262.0 el 9.0 pa 39.1		p: az 125.2 el 42.8 pa -42.3		u,v (fr/asec) 9949.592 2003.497			nlags: 128 t_cohere infinite				simultaneous interpolator

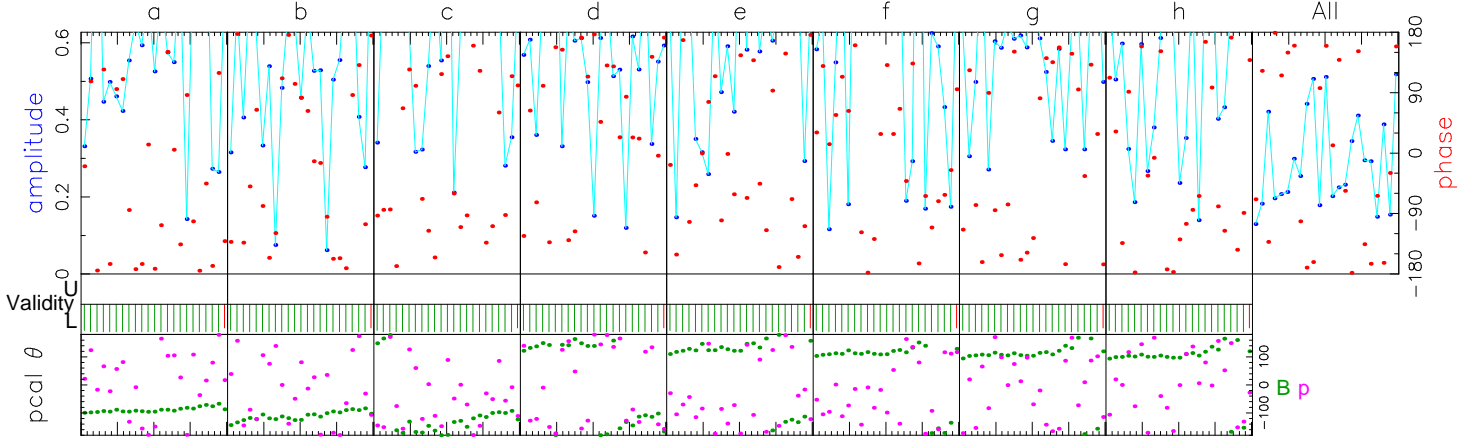


Fringe quality 0
SNR 5.6
Int time 239.447
Amp 0.209
Phase -1256.5
PFD 8.1e-01
Delays (us)
SBD 0.174646
MBD -0.014314
Fringe rate (Hz)
-0.533088
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

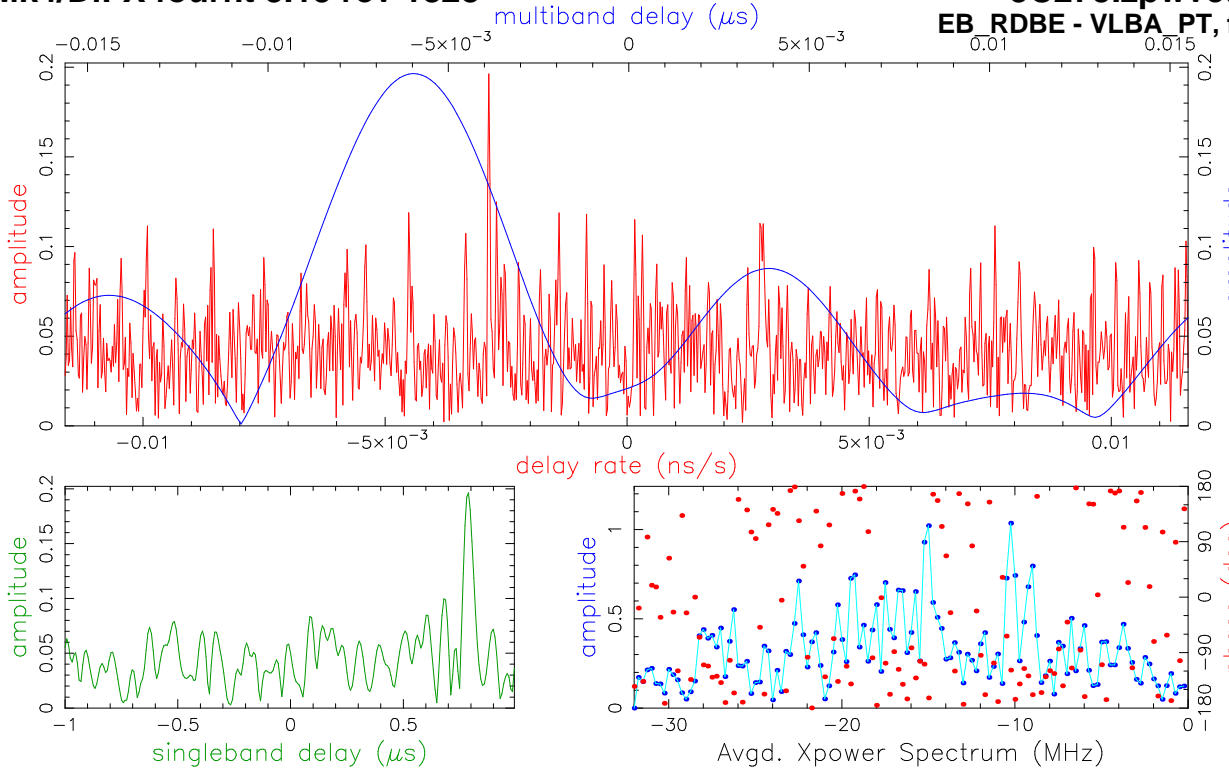


Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022623
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2° 03' 8.598"

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



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
p	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)		-1.13176461261E+04		Apriori delay (usec)	-1.13178193122E+04	Resid mbdelay (usec)	-1.43139E-02	+/-	3.9E-04	
Sband delay (usec)		-1.13176446662E+04		Apriori clock (usec)	2.6364681E+01	Resid sbdelay (usec)	1.74646E-01	+/-	3.1E-03	
Phase delay (usec)		-1.13178193179E+04		Apriori clockrate (us/s)	-2.9093478E-07	Resid phdelay (usec)	-5.69208E-06	+/-	6.7E-07	
Delay rate (us/s)		-1.72900003809E+00		Apriori rate (us/s)	-1.72899384947E+00	Resid rate (us/s)	-6.18862E-06	+/-	4.8E-09	
Total phase (deg)		-1094.3		Apriori accel (us/s/s)	6.11173478166E-05	Resid phase (deg)	-1256.5	+/-	20.6	
RMS	72.8	49.5	Search (1024X32)	0.181	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
ph/seg (deg)	72.8	49.5	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.016	0.016	
amp/seg (%)	87.0	86.4	Inc. seg. avg.	0.240	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.012	0.012	
ph/frq (deg)	29.6	29.2	Inc. frq. avg.	0.200	Data rate(Mb/s): 1024	nlags: 128 t_cohere infinite	ion window (TEC)	0.00	0.00	
amp/frq (%)	24.1	50.9								

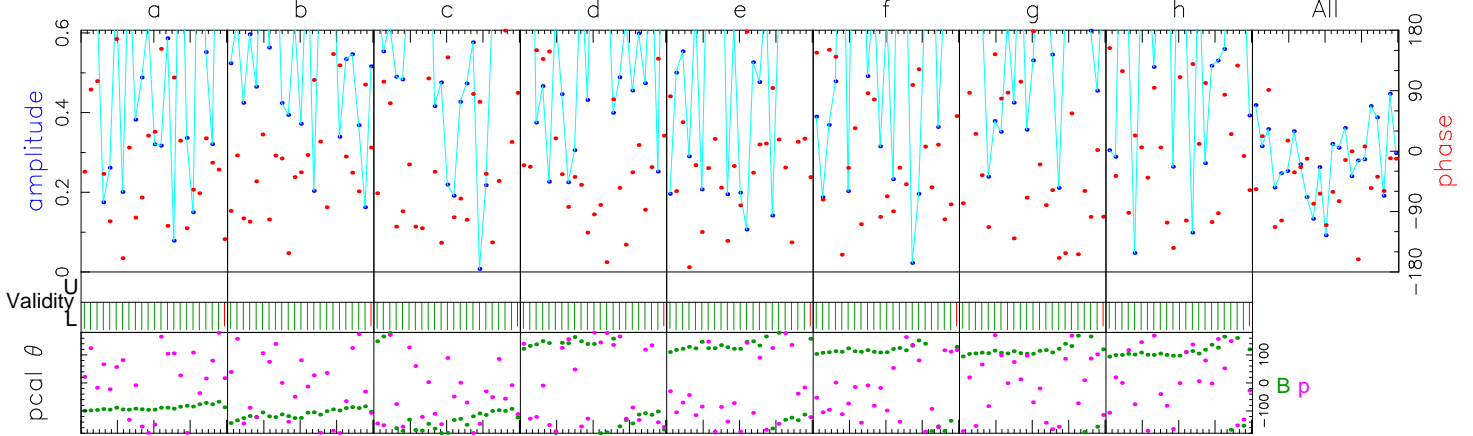


Fringe quality 0

SNR 5.9
 Int time 239.447
 Amp 0.202
 Phase -4535.7
 PFD 2.0e-01
 Delays (us)
 SBD 0.786551
 MBD -0.006064
 Fringe rate (Hz)
 -0.246145
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500

Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022624
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2°03' 8.598"

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

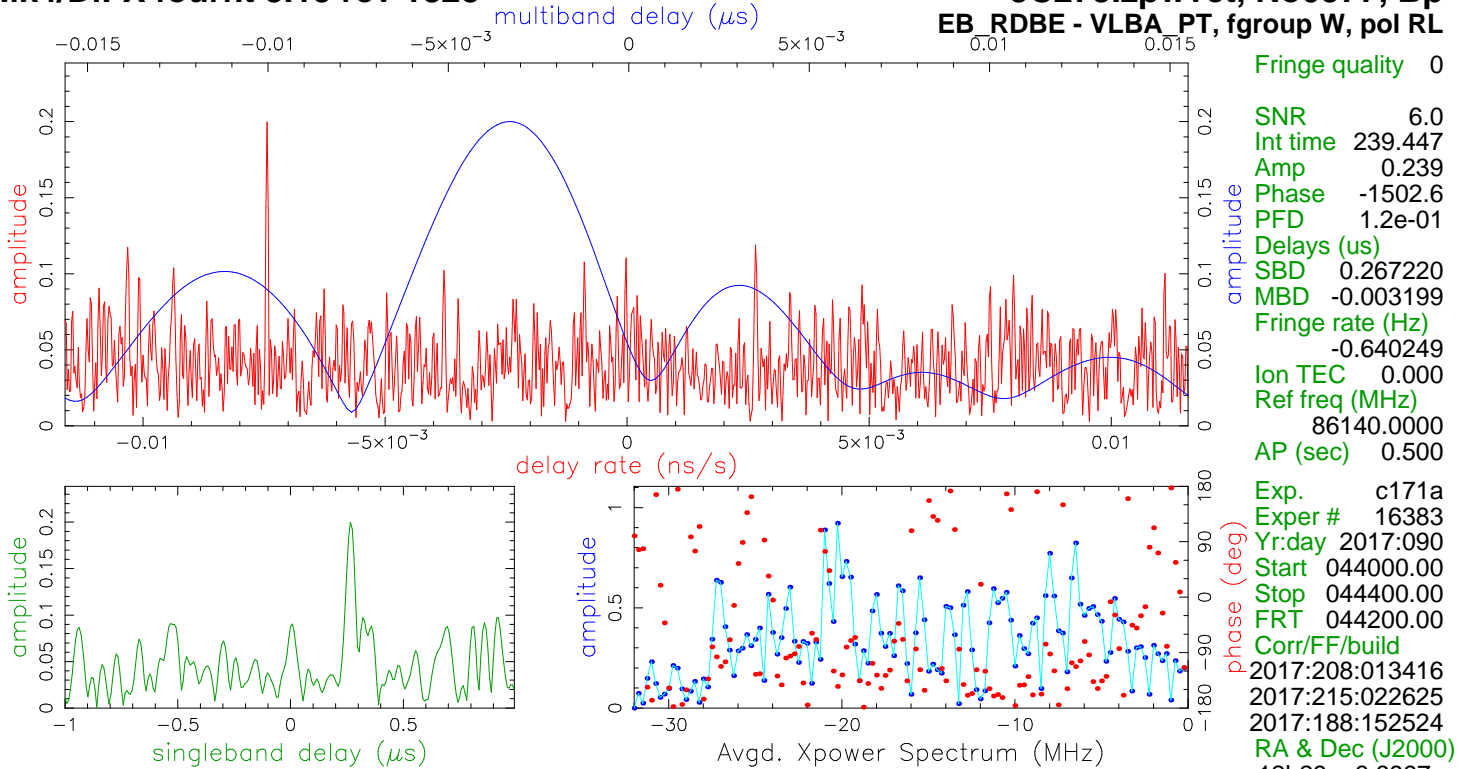


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-29.5	-30.2	-90.8	-45.1	-18.9	-45.4	-66.8	4.6	Phase	-35.7
	0.2	0.3	0.1	0.3	0.4	0.2	0.1	0.1	Ampl.	0.2
	152.5	231.3	28.4	231.7	229.5	138.0	157.2	112.6	Sbd box	229.7
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
p	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	

Group delay (usec)(sbd) -1.13170441265E+04 Apriori delay (usec) -1.13178193122E+04 Resid mbdelay (usec) -6.06436E-03 +/- 3.7E-04
 Sband delay (usec) -1.13170327612E+04 Apriori clock (usec) 2.6364681E+01 Resid sbdelay (usec) 7.86551E-01 +/- 2.9E-03
 Phase delay (usec) -1.13178193133E+04 Apriori clockrate (us/s) -2.9093478E-07 Resid phdelay (usec) -1.15040E-06 +/- 6.3E-07
 Delay rate (us/s) -1.72899670697E+00 Apriori rate (us/s) -1.72899384947E+00 Resid rate (us/s) -2.85750E-06 +/- 4.5E-09
 Total phase (deg) -4733.5 Apriori accel (us/s/s) 6.11173478166E-05 Resid phase (deg) -4535.7 +/- 19.4

RMS Theor. Amplitude 0.202 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 53.5 46.5 Search (1024X32) 0.192 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 64.4 81.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 32.0 27.4 Inc. seg. avg. 0.223 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 amp/frq (%) 47.8 47.9 Inc. frq. avg. 0.194 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 262.0 el 9.0 pa 39.1 p: az 125.2 el 42.8 pa -42.3 u,v (fr/asec) 9949.592 2003.497 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Bp.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/Bp.W.71.zpwwct



Fringe quality 0

SNR 6.0

Int time 239.447

Amp 0.239

Phase -1502.6

PFD 1.2e-01

Delays (us)

SBD 0.267220

MBD -0.003199

Fringe rate (Hz)

-0.640249

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:090

Start 044000.00

Stop 044400.00

FRT 044200.00

Corr/FF/build

2017:208:013416

2017:215:022625

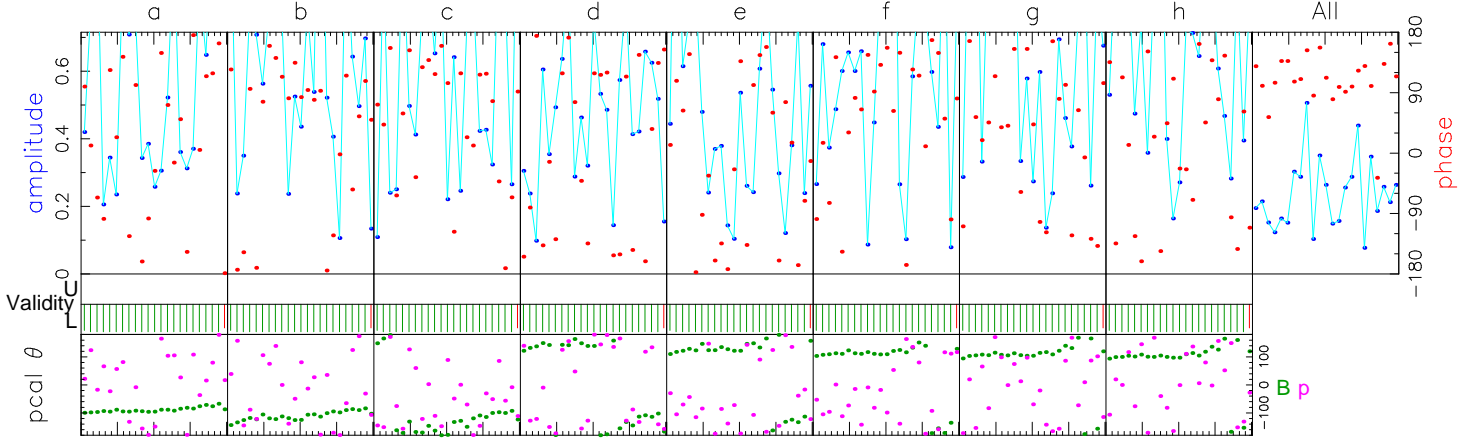
2017:188:152524

RA & Dec (J2000)

12h29m 6.6997s

+2° 03' 8.598"

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



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	122.0	116.9	96.8	160.0	143.9	92.3	84.8	173.1	Phase	117.4
	0.1	0.5	0.3	0.3	0.2	0.4	0.3	0.1	Ampl.	0.2
	61.5	163.4	167.9	98.8	248.7	162.0	12.4	176.2	Sbd box	163.2
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	
p	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
p	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.13175412616E+04		Apriori delay (usec)		-1.13178193122E+04		Resid mbdelay (usec)		-3.19946E-03	+/- 3.6E-04
Sband delay (usec)	-1.13175520922E+04		Apriori clock (usec)		2.6364681E+01		Resid sbdelay (usec)		2.67220E-01	+/- 2.9E-03
Phase delay (usec)	-1.13178193084E+04		Apriori clockrate (us/s)		-2.9093478E-07		Resid phdelay (usec)		3.78428E-06	+/- 6.2E-07
Delay rate (us/s)	-1.72900128213E+00		Apriori rate (us/s)		-1.72899384947E+00		Resid rate (us/s)		-7.43266E-06	+/- 4.4E-09
Total phase (deg)	-1700.4		Apriori accel (us/s/s)		6.11173478166E-05		Resid phase (deg)		-1502.6	+/- 19.1

ph/seg (deg) 41.2 45.8 Search (1024X32) 0.191 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

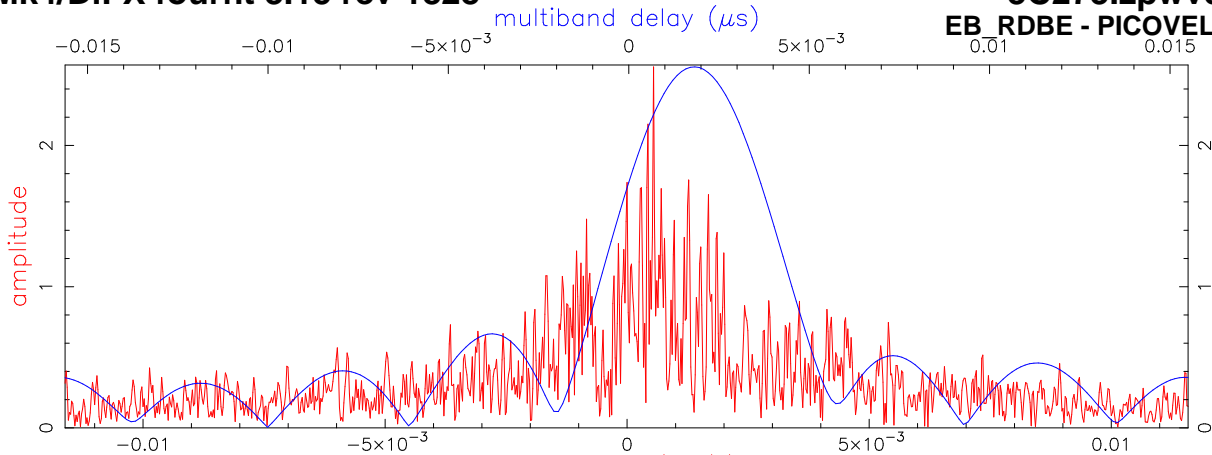
amp/seg (%) 54.9 80.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 36.0 27.0 Inc. seg. avg. 0.214 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

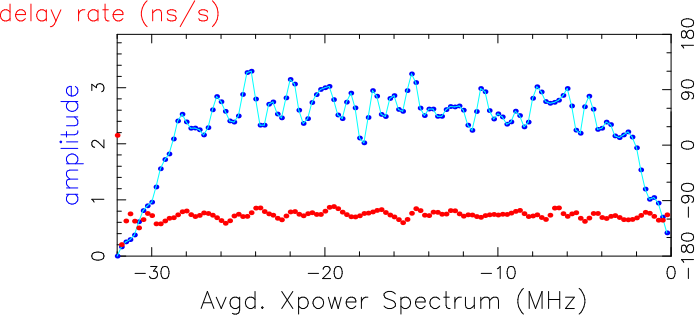
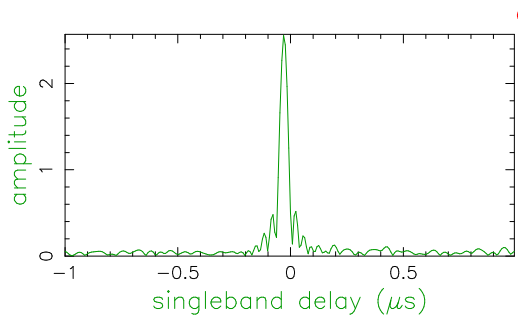
amp/frq (%) 48.7 47.2 Inc. frq. avg. 0.242 Data rate (Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

B: az 262.0 el 9.0 pa 39.1 p: az 125.2 el 42.8 pa -42.3 u,v (fr/asec) 9949.592 2003.497 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/Bp.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/Bp.W.72.zpwwct

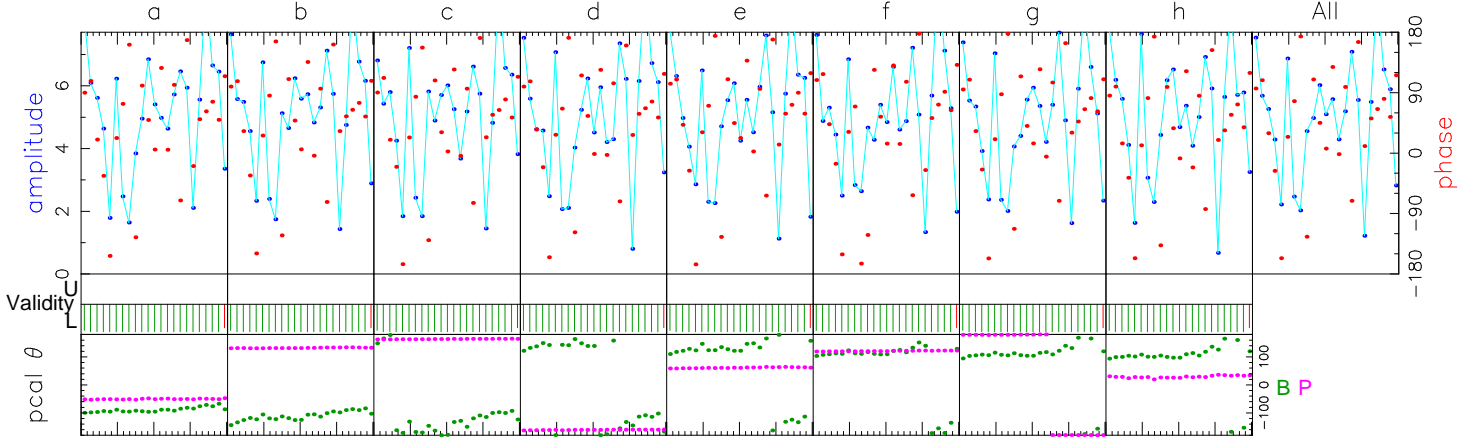


Fringe quality 5
SNR 76.8
Int time 239.043
Amp 2.571
Phase 247.3
PFD 0.0e+00
Delays (us)
SBD -0.029445
MBD 0.001817
Fringe rate (Hz) 0.046547
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500



Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022626
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2°03' 8.598"

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

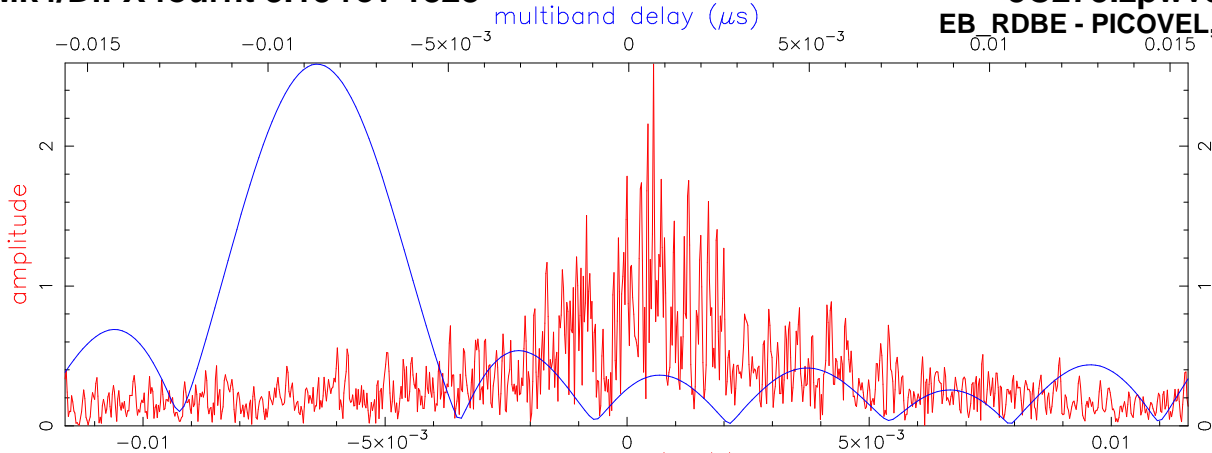


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480		
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:P	0:0	0:0	0:0	0:0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

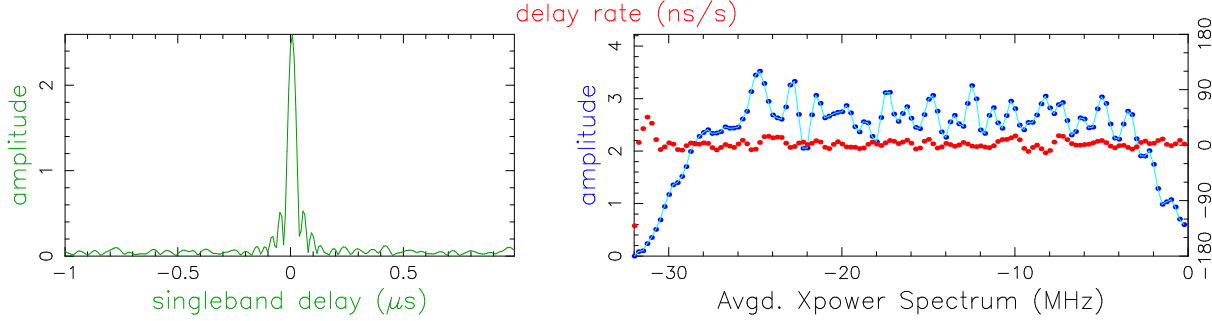
Group delay (usec)(sbd)	-3.44758763353E+03	Apriori delay (usec)	-3.44755820063E+03	Resid mbdelay (usec)	1.81710E-03	+/-	2.8E-05
Sband delay (usec)	-3.44758764513E+03	Apriori clock (usec)	2.8322489E+01	Resid sbdelay (usec)	-2.94445E-02	+/-	2.2E-04
Phase delay (usec)	-3.44755819846E+03	Apriori clockrate (us/s)	-5.4640006E-07	Resid phdelay (usec)	2.16902E-06	+/-	4.8E-08
Delay rate (us/s)	1.83529279031E-01	Apriori rate (us/s)	1.83528738668E-01	Resid rate (us/s)	5.40363E-07	+/-	3.5E-10
Total phase (deg)	102.4	Apriori accel (us/s/s)	1.91278894966E-05	Resid phase (deg)	247.3	+/-	1.5

ph/seg (deg)	73.4	Theor.	3.6	Amplitude	2.571 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	120.3	Search (1024X32)	2.478	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	6.2	Interp.	0.000	Inc. seg. avg.	5.033	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	3.4	Inc. frq. avg.	2.569	Inc. frq. avg.	2.569	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
						Data rate(Mb/s):	1024	dr window (ns/s)	-0.012 0.012
						nlags:	128	t_cohere	infinite
								ion window (TEC)	0.00 0.00

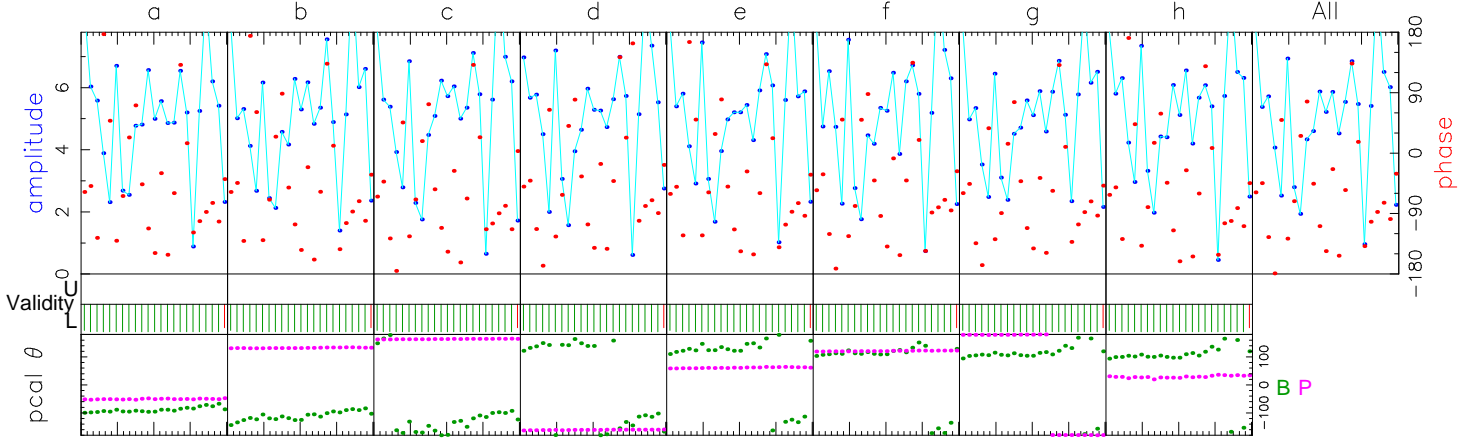
B: az 262.0 el 9.0 pa 39.1 P: az 257.8 el 18.7 pa 51.3 u,v (fr/asec) -1038.244 1549.189 simultaneous interpolator
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/BP.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/BP.W.73.zpwwct



Fringe quality 5
SNR 77.5
Int time 239.043
Amp 2.595
Phase -85.5
PFD 0.0e+00
Delays (us)
SBD 0.006481
MBD -0.008645
Fringe rate (Hz) 0.046557
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500
Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044000.00
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:022627
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2°03' 8.598"

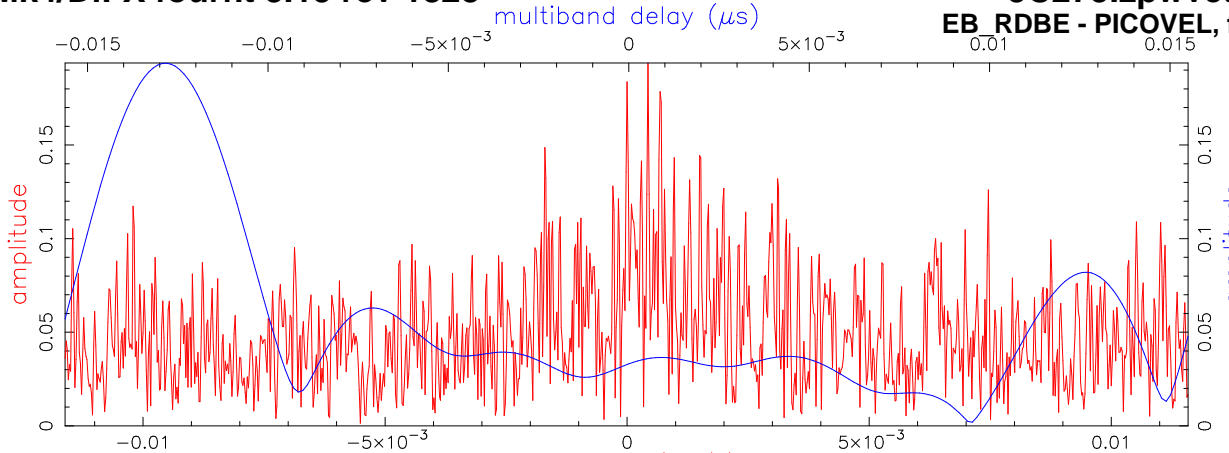


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec

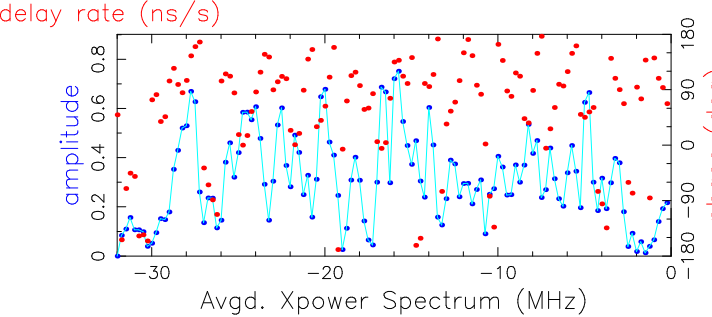
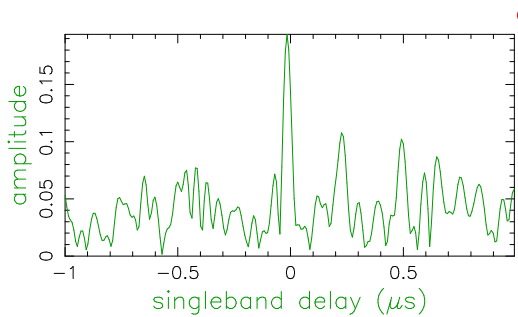


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	86412.00	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
P	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)	-3.44756684565E+03	-3.44755172013E+03	-3.44755820339E+03	-3.44755820339E+03	-3.44755820063E+03	-3.44755820063E+03	-3.44755820063E+03	-3.44755820063E+03	-3.44755820063E+03	-3.44755820063E+03
Sband delay (usec)	-3.44755172013E+03	-3.44755172013E+03	-3.44755820339E+03	-3.44755820339E+03	-3.44755820063E+03	-3.44755820063E+03	-3.44755820063E+03	-3.44755820063E+03	-3.44755820063E+03	-3.44755820063E+03
Phase delay (usec)	-3.44755820339E+03	-3.44755820339E+03	-3.44755820339E+03	-3.44755820339E+03	-3.44755820063E+03	-3.44755820063E+03	-3.44755820063E+03	-3.44755820063E+03	-3.44755820063E+03	-3.44755820063E+03
Delay rate (us/s)	1.83529279147E-01	1.83529279147E-01	1.83529279147E-01	1.83529279147E-01	1.83529279147E-01	1.83529279147E-01	1.83529279147E-01	1.83529279147E-01	1.83529279147E-01	1.83529279147E-01
Total phase (deg)			-230.4							
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	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
Pcal rate:	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PC period (AP's)	5	5	5	5	5	5	5	5	5	5
sb window (us)	-1.000	1.000	-1.000	1.000	-1.000	1.000	-1.000	1.000	-1.000	1.000
mb window (us)	-0.016	0.016	-0.016	0.016	-0.016	0.016	-0.016	0.016	-0.016	0.016
dr window (ns/s)	-0.012	0.012	-0.012	0.012	-0.012	0.012	-0.012	0.012	-0.012	0.012
ion window (TEC)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

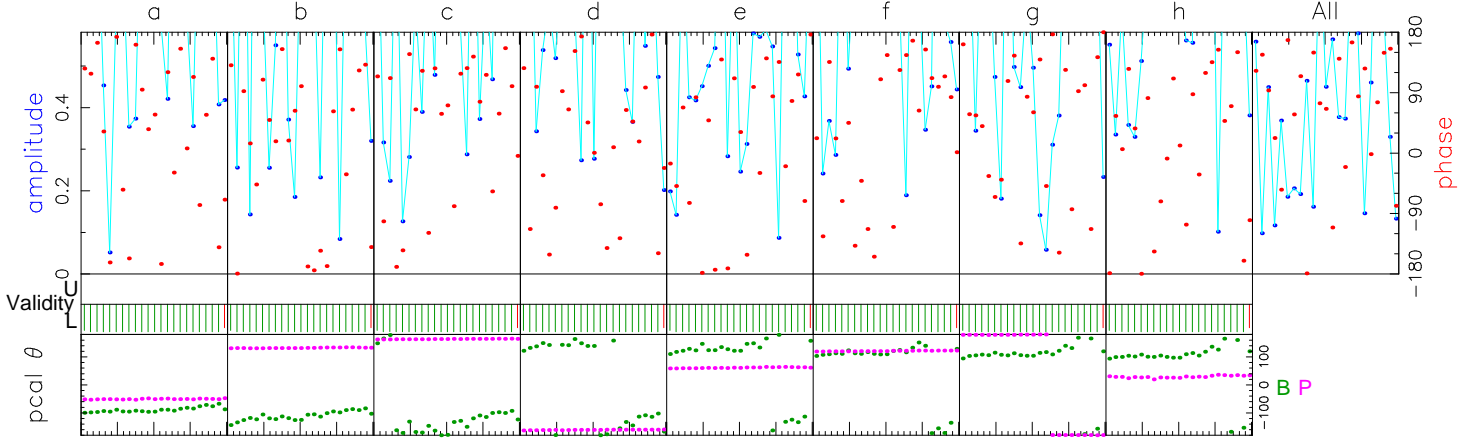
B: az 262.0 el 9.0 pa 39.1 P: az 257.8 el 18.7 pa 51.3 u,v (fr/asec) -1038.244 1549.189 simultaneous interpolator
Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/BP.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/BP.W.74.zpwwct



Fringe quality 0
 SNR 5.8
 Int time 239.043
 Amp 0.194
 Phase 108.8
 PFD 3.5e-01
 Delays (us)
 SBD -0.015428
 MBD -0.012838
 Fringe rate (Hz) 0.036750
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044000.00
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:022628
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2° 03' 8.598"

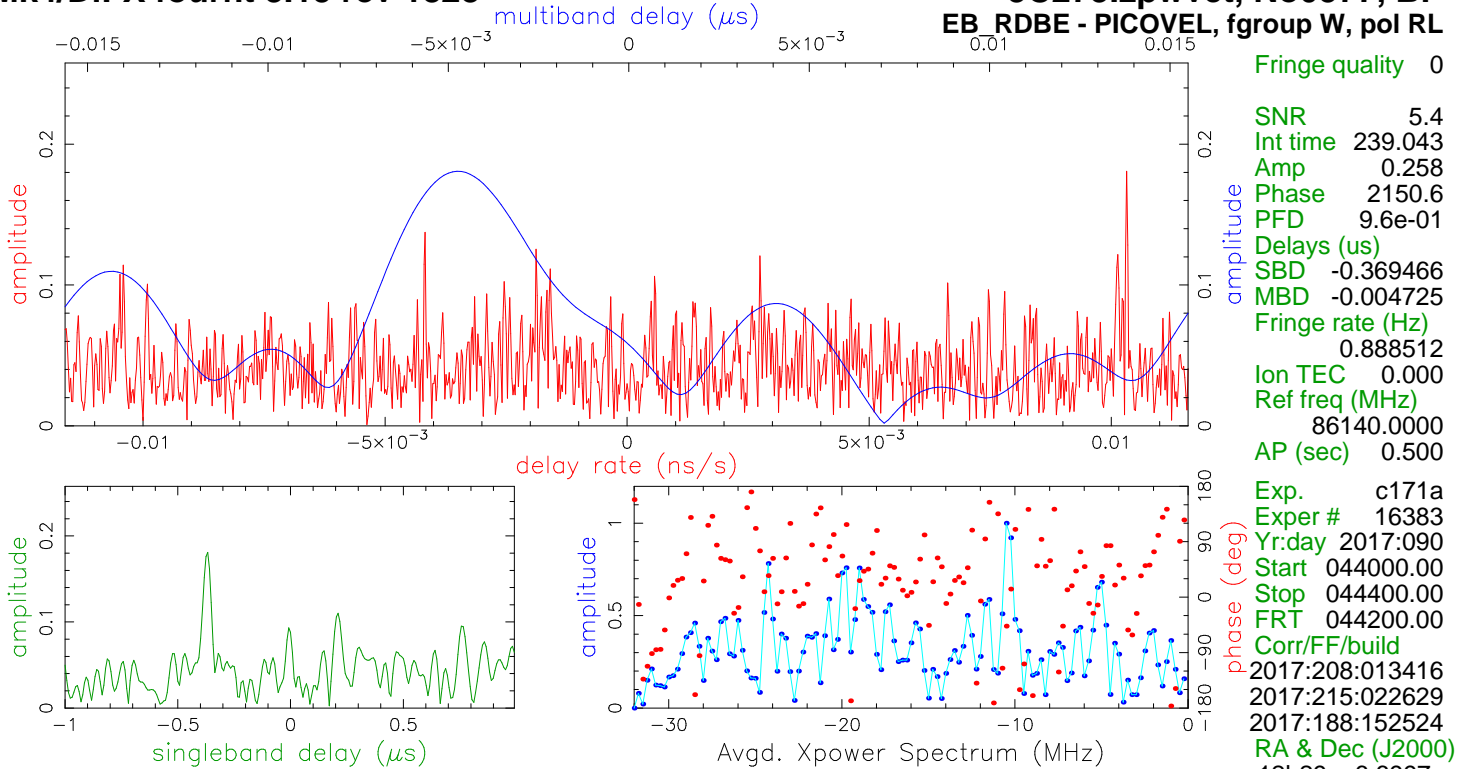


Amp. and Phase vs. time for each freq., 23 segs, 21 APs / seg (10.50 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.44757103867E+03		Apriori delay (usec)		-3.44755820063E+03		Resid mbdelay (usec)		-1.28380E-02	+/- 3.7E-04
Sband delay (usec)	-3.44757362813E+03		Apriori clock (usec)		2.8322489E+01		Resid sbdelay (usec)		-1.54275E-02	+/- 3.0E-03
Phase delay (usec)	-3.44755819712E+03		Apriori clockrate (us/s)		-5.4640006E-07		Resid phdelay (usec)		3.50950E-06	+/- 6.4E-07
Delay rate (us/s)	1.83529165303E-01		Apriori rate (us/s)		1.83528738668E-01		Resid rate (us/s)		4.26635E-07	+/- 4.6E-09
Total phase (deg)	-36.0		Apriori accel (us/s/s)		1.91278894966E-05		Resid phase (deg)		108.8	+/- 19.8

ph/seg (deg) 77.3 47.4 Search (1024X32) 0.187 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 169.7 82.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 17.6 28.0 Inc. seg. avg. 0.308 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 35.3 48.8 Inc. frq. avg. 0.176 Data rate (Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 B: az 262.0 el 9.0 pa 39.1 P: az 257.8 el 18.7 pa 51.3 u,v (fr/asec) -1038.244 1549.189 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/BP.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/BP.W.75.zpwwct



Fringe quality 0

SNR 5.4

Int time 239.043

Amp 0.258

Phase 2150.6

PFD 9.6e-01

Delays (us)

SBD -0.369466

MBD -0.004725

Fringe rate (Hz) 0.888512

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.500

Exp. c171a

Exper # 16383

Yr:day 2017:090

Start 044000.00

Stop 044400.00

FRT 044200.00

Corr/FF/build

2017:208:013416

2017:215:022629

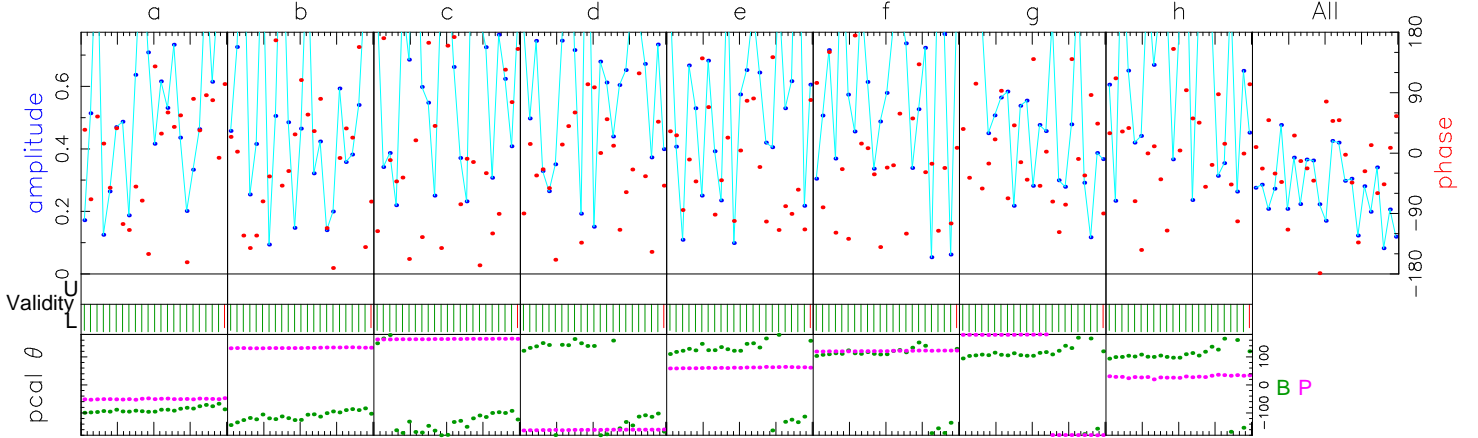
2017:188:152524

RA & Dec (J2000)

12h29m 6.6997s

+2°03' 8.598"

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



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
36.4	-49.7	-118.0	9.4	-12.7	-33.1	-12.5	5.7	Phase	-9.4
0.3	0.2	0.2	0.4	0.3	0.4	0.4	0.5	Ampl.	0.3
252.6	176.0	31.6	84.9	217.5	235.1	98.3	182.7	Sbd box	81.7
U/L 0/480	0/480	0/480	0/480	0/480	0/480	0/480	0/480	APs used	
B -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P 1000	1000	1000	1000	1000	1000	1000	1000		
B W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
Group delay (usec)(sbd)	-3.44793792566E+03	Apriori delay (usec)	-3.44755820063E+03	Resid mbdelay (usec)	-4.72502E-03	+/-	4.0E-04		
Sband delay (usec)	-3.44792766613E+03	Apriori clock (usec)	2.8322489E+01	Resid sbdelay (usec)	-3.69466E-01	+/-	3.2E-03		
Phase delay (usec)	-3.44755820094E+03	Apriori clockrate (us/s)	-5.4640006E-07	Resid phdelay (usec)	-3.04677E-07	+/-	6.8E-07		
Delay rate (us/s)	1.83539053412E-01	Apriori rate (us/s)	1.83528738668E-01	Resid rate (us/s)	1.03147E-05	+/-	4.9E-09		
Total phase (deg)	2005.7	Apriori accel (us/s/s)	1.91278894966E-05	Resid phase (deg)	2150.6	+/-	21.1		

ph/seg (deg) 61.6 50.6 Search (1024X32) 0.178 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

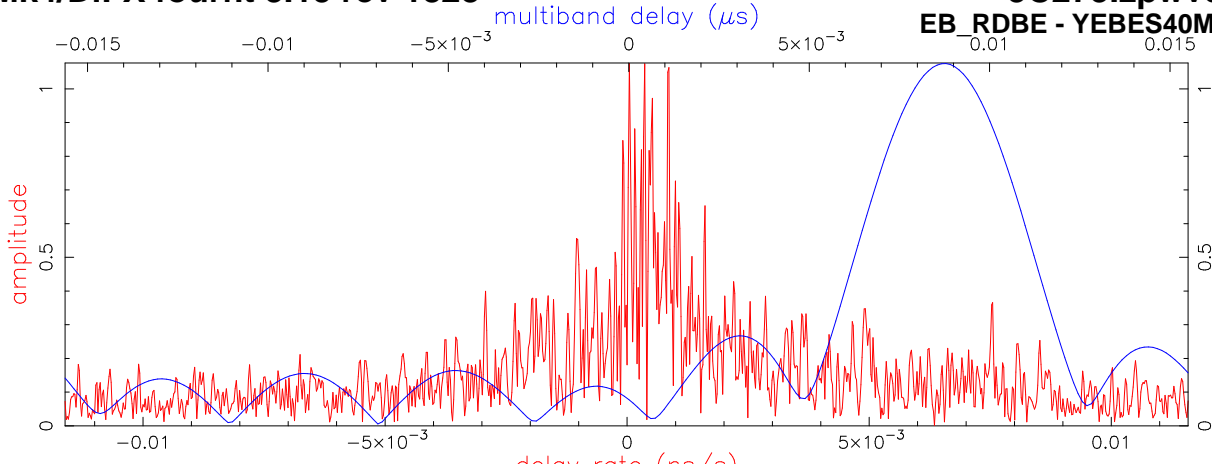
amp/seg (%) 74.6 88.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 52.7 29.8 Inc. seg. avg. 0.278 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

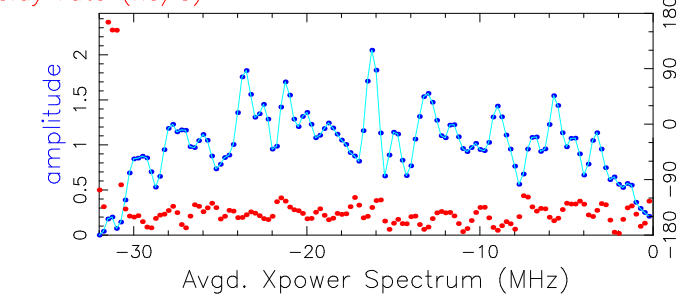
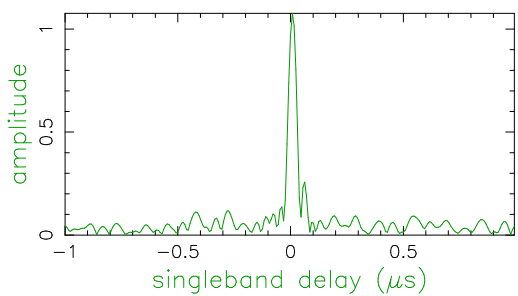
amp/frq (%) 38.8 52.0 Inc. frq. avg. 0.275 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012

B: az 262.0 el 9.0 pa 39.1 P: az 257.8 el 18.7 pa 51.3 u,v (fr/asec) -1038.244 1549.189 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/BP.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/BP.W.76.zpwwct

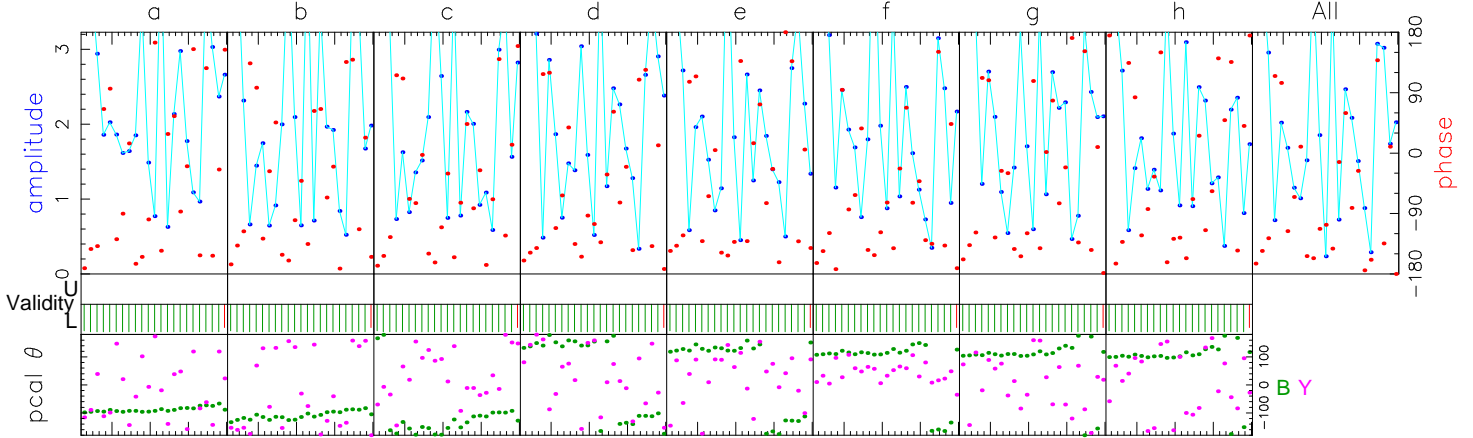


Fringe quality 7
 SNR 31.4
 Int time 228.037
 Amp 1.077
 Phase -147.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.008934
 MBD 0.008749
 Fringe rate (Hz) 0.003863
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044011.50
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:023051
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6997s
 +2° 03' 8.598"



Avgd. Xpower Spectrum (MHz)

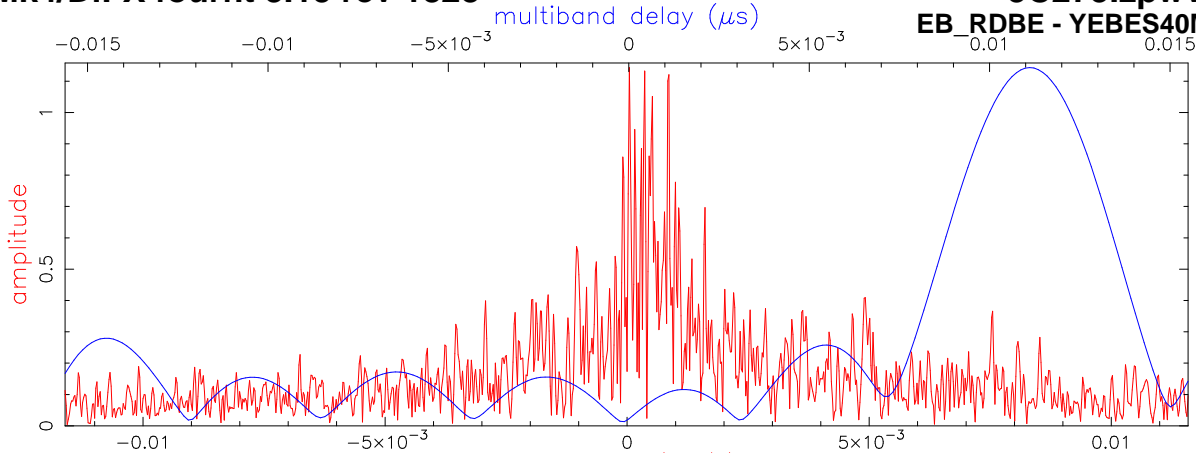
Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



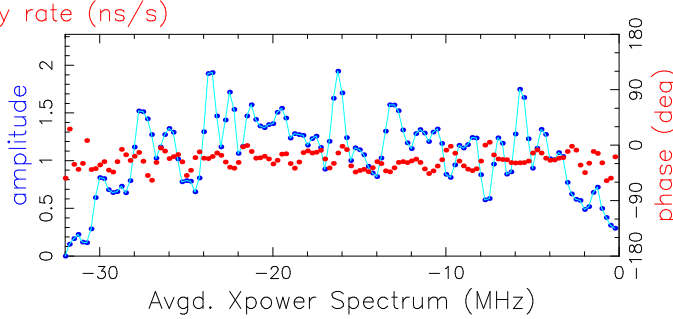
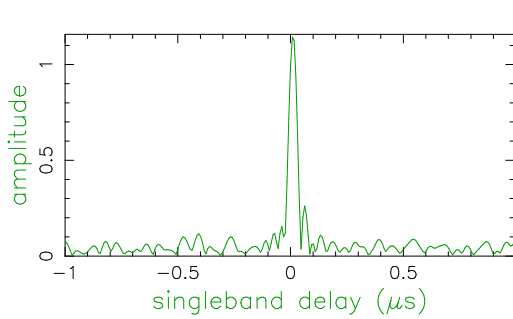
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-156.1	-147.4	-145.9	-143.7	-140.6	-143.2	-147.9	-158.0	Phase	-147.7
	1.0	1.0	1.2	1.0	1.1	1.2	1.0	1.1	Ampl.	1.1
	130.1	130.4	130.3	130.5	130.1	130.2	130.0	129.5	Sbd box	130.1
U/L	0/457	0/457	0/457	0/457	0/457	0/457	0/457	0/457	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.10682196295E+03		Apriori delay (usec)		-3.10683071167E+03		Resid mbdelay (usec)		8.74872E-03	+/- 6.9E-05
Sband delay (usec)	-3.10682177817E+03		Apriori clock (usec)		2.4974798E+01		Resid sbdelay (usec)		8.93350E-03	+/- 5.5E-04
Phase delay (usec)	-3.10683071644E+03		Apriori clockrate (us/s)		-4.8640009E-07		Resid phdelay (usec)		-4.76443E-06	+/- 1.2E-07
Delay rate (us/s)	1.31132845095E-01		Apriori rate (us/s)		1.31132800252E-01		Resid rate (us/s)		4.48427E-08	+/- 8.9E-10
Total phase (deg)	-329.0		Apriori accel (us/s/s)		1.71181766968E-05		Resid phase (deg)		-147.7	+/- 3.6

ph/seg (deg) 81.1 8.7 Theor. Amplitude 1.077 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 151.2 15.3 Search (1024X32) 1.074 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 6.7 5.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 6.3 9.0 Inc. seg. avg. 2.058 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite dr window (ns/s) -0.012 0.012
 Inc. frq. avg. 1.076 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

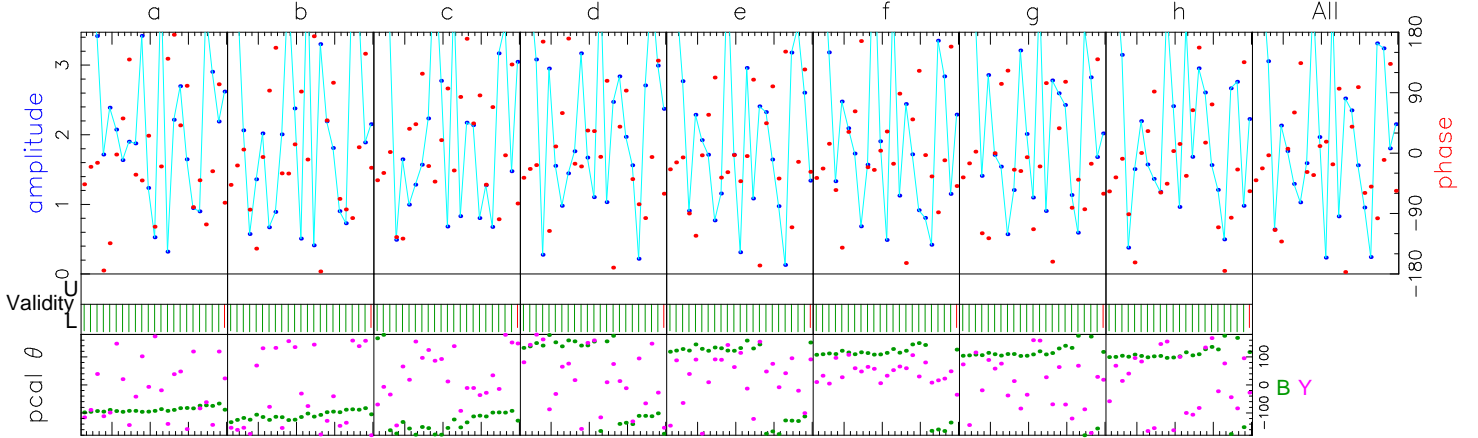
B: az 262.0 el 9.0 pa 39.1 Y: az 256.9 el 17.7 pa 47.9 u,v (fr/asec) -739.480 1128.643 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/BY.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/BY.W.317.zpwwct



Fringe quality 7
SNR 33.8
Int time 228.037
Amp 1.158
Phase -23.4
PFD 0.0e+00
Delays (us)
SBD 0.010967
MBD 0.011126
Fringe rate (Hz) 0.003836
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500
Exp. c171a
Exper # 16383
Yr:day 2017:090
Start 044011.50
Stop 044400.00
FRT 044200.00
Corr/FF/build
2017:208:013416
2017:215:023053
2017:188:152524
RA & Dec (J2000)
12h29m 6.6997s
+2° 03' 8.598"



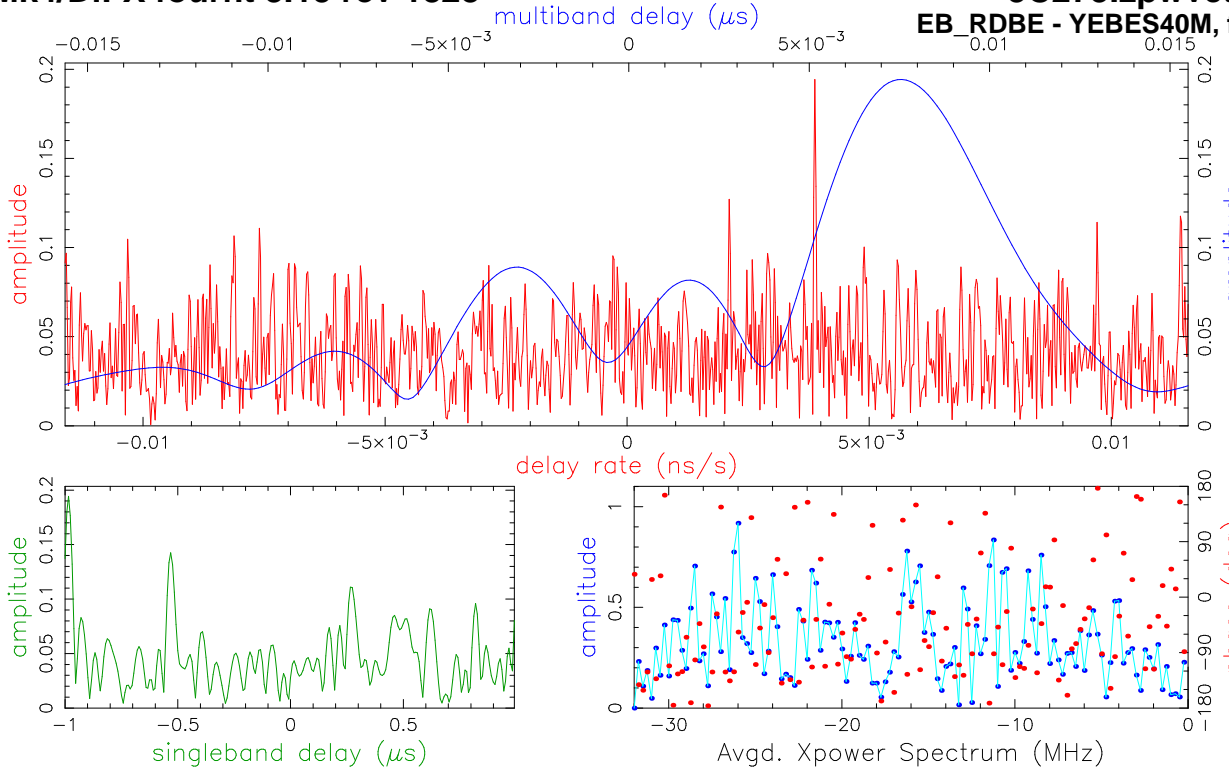
Amp. and Phase vs. time for each freq., 23 segs, 20 APs / seg (10.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-32.4	-24.0	-20.9	-16.1	-15.7	-20.6	-29.7	-28.5	Phase	-23.4
	1.0	1.1	1.2	1.1	1.1	1.3	1.1	1.2	Ampl.	1.1
	130.5	130.6	130.5	130.5	130.4	130.5	130.1	130.0	Sbd box	130.4
U/L	0/457	0/457	0/457	0/457	0/457	0/457	0/457	0/457	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.10681958532E+03		Apriori delay (usec)		-3.10683071167E+03		Resid mbdelay (usec)		1.11263E-02	+/- 6.4E-05
Sband delay (usec)	-3.10681974417E+03		Apriori clock (usec)		2.4974798E+01		Resid sbdelay (usec)		1.09675E-02	+/- 5.1E-04
Phase delay (usec)	-3.10683071243E+03		Apriori clockrate (us/s)		-4.8640009E-07		Resid phdelay (usec)		-7.54062E-07	+/- 1.1E-07
Delay rate (us/s)	1.31132844781E-01		Apriori rate (us/s)		1.31132800252E-01		Resid rate (us/s)		4.45293E-08	+/- 8.3E-10
Total phase (deg)	-204.6		Apriori accel (us/s/s)		1.71181766968E-05		Resid phase (deg)		-23.4	+/- 3.4

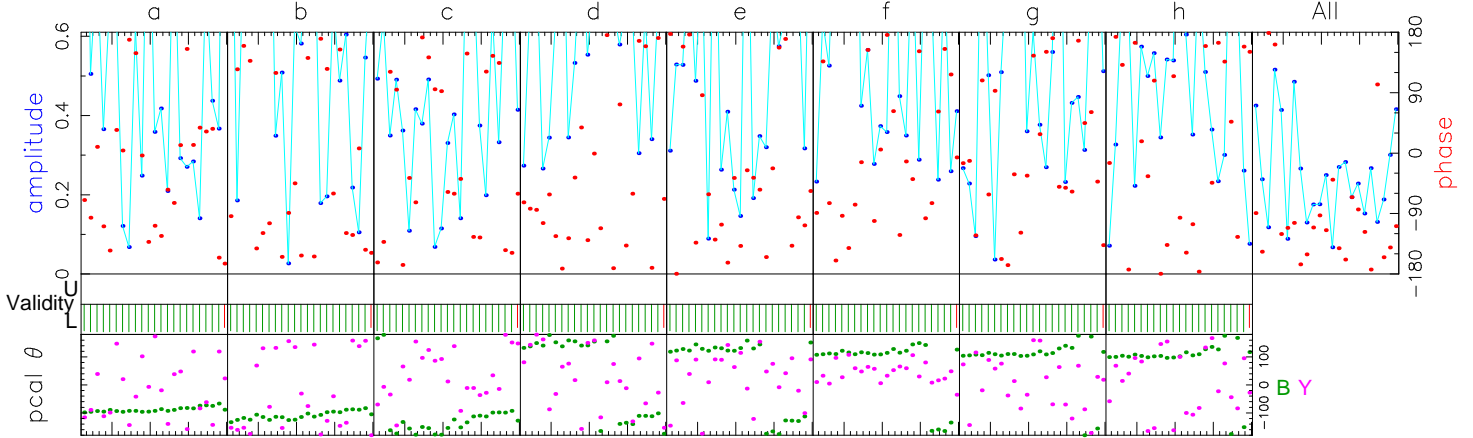
ph/seg (deg) 79.9 8.1 Theor. Amplitude 1.158 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 146.5 14.2 Search (1024X32) 1.126 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 6.8 4.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 6.7 8.4 Inc. seg. avg. 2.165 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. 1.145 Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 262.0 el 9.0 pa 39.1 Y: az 256.9 el 17.7 pa 47.9 u,v (fr/asec) -739.480 1128.643 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/c171a/gmva/1234/No0577/BY.zpwwct Output file: /Exps/c171a/gmva/1234/No0577/BY.W.319.zpwwct



Fringe quality 0
 SNR 5.7
 Int time 228.037
 Amp 0.204
 Phase 5629.0
 PFD 5.8e-01
 Delays (us)
 SBD -0.984729
 MBD 0.007539
 Fringe rate (Hz) 0.334114
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c171a
 Exper # 16383
 Yr:day 2017:090
 Start 044011.50
 Stop 044400.00
 FRT 044200.00
 Corr/FF/build
 2017:208:013416
 2017:215:023054
 2017:188:152524
 RA & Dec (J2000)
 12h29m 6.6995"
 +2°03' 8.598"

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



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-90.0	-146.7	-163.3	-122.0	-128.1	-103.6	-76.7	-174.8	Phase	-131.0
	0.2	0.4	0.2	0.3	0.3	0.2	0.1	0.2	Ampl.	0.2
	54.8	2.4	145.0	4.4	208.0	107.7	69.5	210.3	Sbd box	3.0
U/L	0/457	0/457	0/457	0/457	0/457	0/457	0/457	0/457	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.10782317284E+03		Apriori delay (usec)		-3.10683071167E+03		Resid mbdelay (usec)		7.53884E-03	+/- 3.8E-04
Sband delay (usec)	-3.10781544017E+03		Apriori clock (usec)		2.4974798E+01		Resid sbdelay (usec)		-9.84729E-01	+/- 3.0E-03
Phase delay (usec)	-3.10683071589E+03		Apriori clockrate (us/s)		-4.8640009E-07		Resid phdelay (usec)		-4.22375E-06	+/- 6.5E-07
Delay rate (us/s)	1.31136678986E-01		Apriori rate (us/s)		1.31132800252E-01		Resid rate (us/s)		3.87873E-06	+/- 4.9E-09
Total phase (deg)	5447.8		Apriori accel (us/s/s)		1.71181766968E-05		Resid phase (deg)		5629.0	+/- 20.2

ph/seg (deg) 46.3 48.4 46.3 48.4 46.3 48.4 46.3 48.4 46.3 48.4
 amp/seg (%) 69.4 84.5 69.4 84.5 69.4 84.5 69.4 84.5 69.4 84.5
 ph/frq (deg) 38.0 28.6 38.0 28.6 38.0 28.6 38.0 28.6 38.0 28.6
 amp/frq (%) 40.5 49.9 40.5 49.9 40.5 49.9 40.5 49.9 40.5 49.9

RMS Theor. Amplitude 0.204 +/- 0.036
 Search (1024X32) 0.190
 Interp. 0.000
 Inc. seg. avg. 0.193
 Inc. frq. avg. 0.206

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