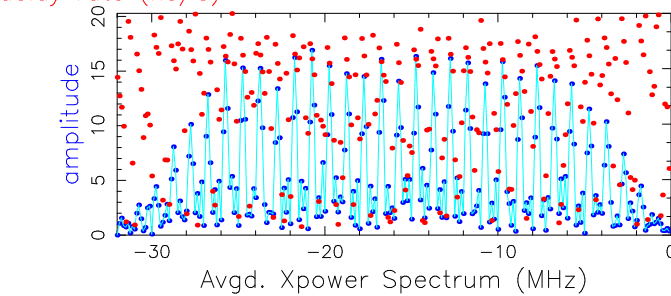
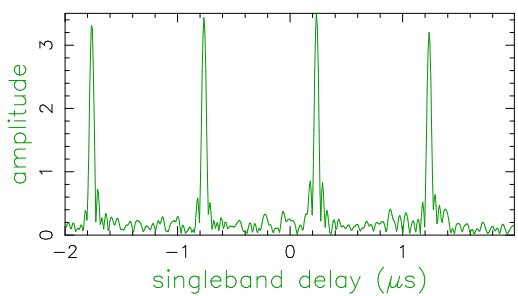
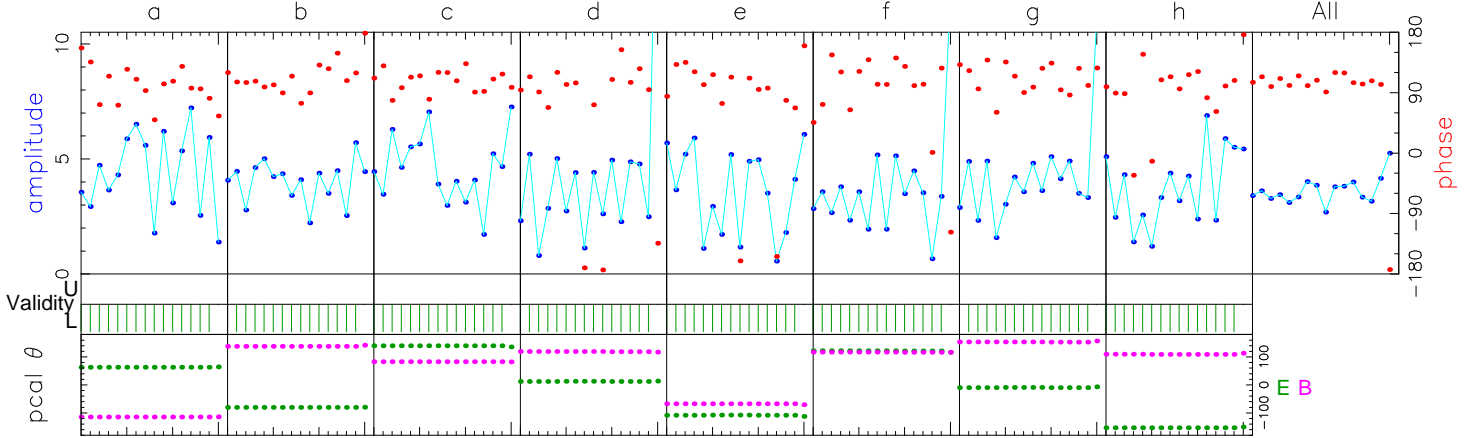


Fringe quality 9  
Error code H  
SNR 26.2  
Int time 15.000  
Amp 3.504  
Phase 107.1  
PFD 0.0e+00  
Delays (us)  
SBD 0.234610  
MBD -0.009974  
Fringe rate (Hz)  
-0.000090  
Ion TEC 0.000  
Ref freq (MHz)  
86156.000  
AP (sec) 1.000



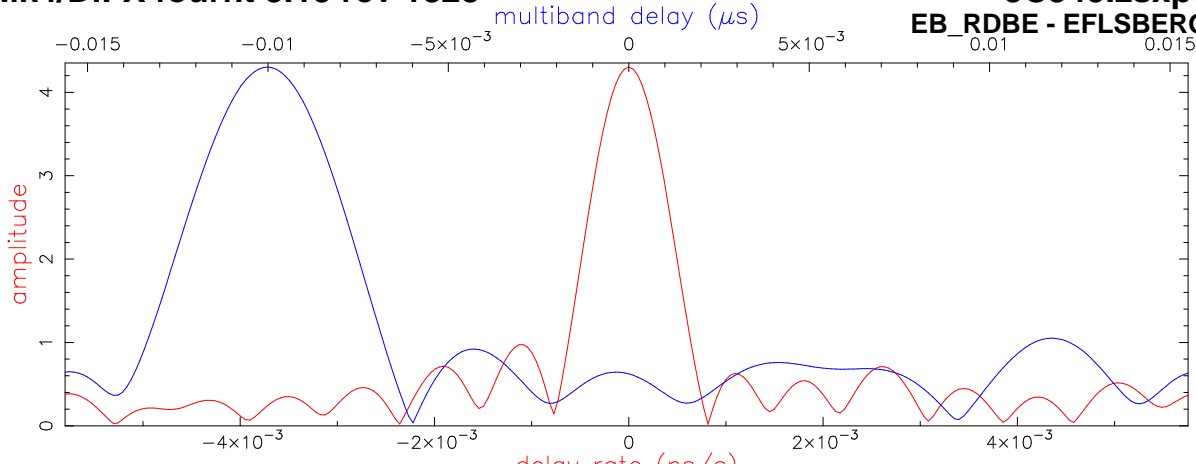
Exp. f172a  
Exper # 16383  
Yr:day 2017:271  
Start 131845.00  
Stop 131901.00  
FRT 131730.00  
Corr/FF/build  
2017:272:123407  
2017:272:123654  
2017:188:152524  
RA & Dec (J2000)  
16h42m58.8100s  
+39°48'36.994"

Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec

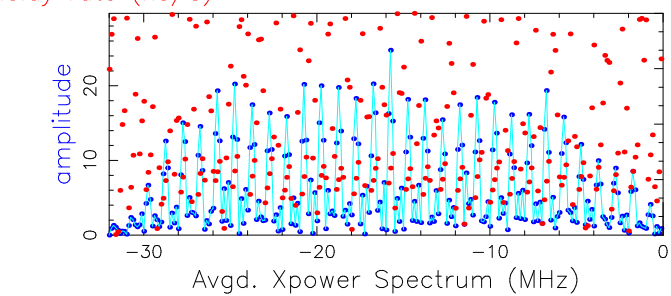
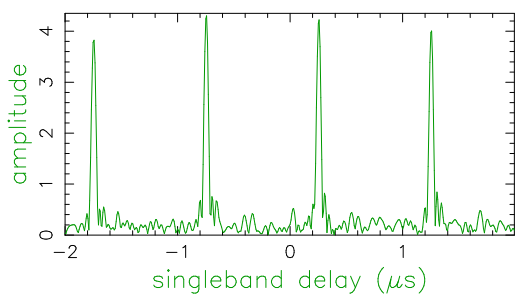


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16		
E	826.4	824.4	823.4	821.0	822.7	823.2	822.6	825.7	Phase	107.1
B	312.1	331.2	310.7	328.7	309.8	328.8	309.5	328.1	Ampl.	3.5
E:B	63:-114	-80:139	139:83	13:119	-109:-68	120:117	-9:154	-152:110	Sbd box	287.0
E:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
B	5	5	5	5	5	5	4	4	PC L delays (ns)	
E	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	PC L delays (ns)	
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	PC phase	
									ManI PC	
									PC amp	
									Chan ids	
									Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(model)	2.50025937502E-01		Apriori delay (usec)		2.60000000002E-01		Resid mbdelay (usec)		-9.97406E-03	+/- 8.3E-05
Sband delay (usec)	4.94610000002E-01		Apriori clock (usec)		2.6000214E-01		Resid sbdelay (usec)		2.34610E-01	+/- 6.6E-04
Phase delay (usec)	2.60003454350E-01		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		3.5435E-06	+/- 1.4E-07
Delay rate (us/s)	-1.04461674172E-09		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-1.04462E-09	+/- 1.5E-08
Total phase (deg)	308.7		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		107.1	+/- 4.4

ph/seg (deg) 8.2 Theor. 8.7 Amplitude 3.504 +/- 0.134 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5  
 amp/seg (%) 11.3 15.2 Search (64X32) 3.487 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000  
 ph/frq (deg) 4.9 6.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016  
 amp/frq (%) 14.8 10.8 Inc. seg. avg. 3.499 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite dr window (ns/s) -0.006 0.006  
 Inc. frq. avg. 3.493 ion window (TEC) 0.00 0.00

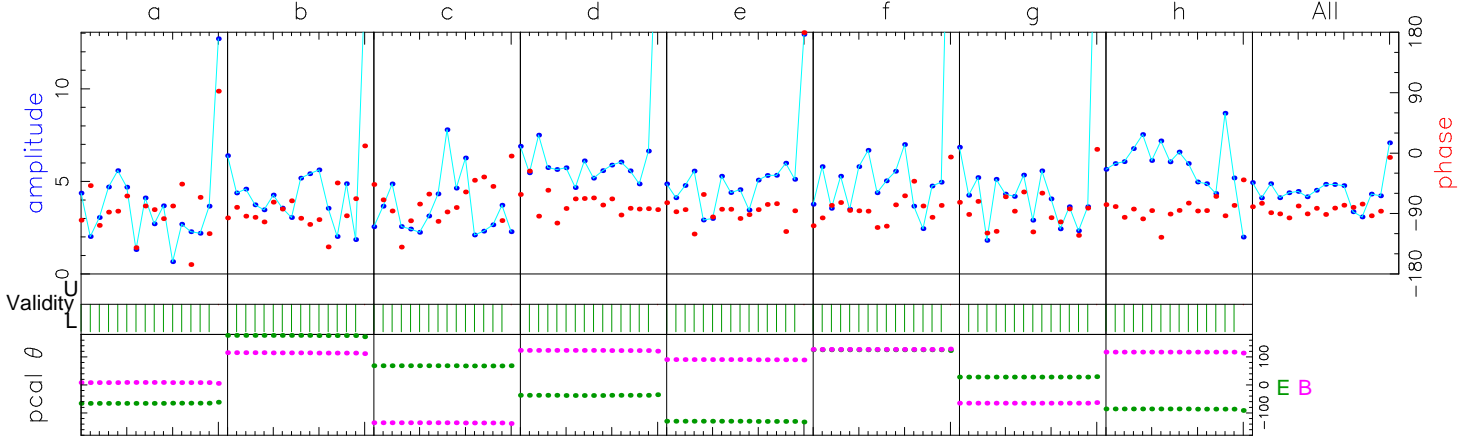


Fringe quality 8  
 Error code H  
 SNR 32.6  
 Int time 15.000  
 Amp 4.353  
 Phase -84.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.745303  
 MBD -0.010009  
 Fringe rate (Hz) 0.001235  
 Ion TEC 0.000  
 Ref freq (MHz) 86156.000  
 AP (sec) 1.000

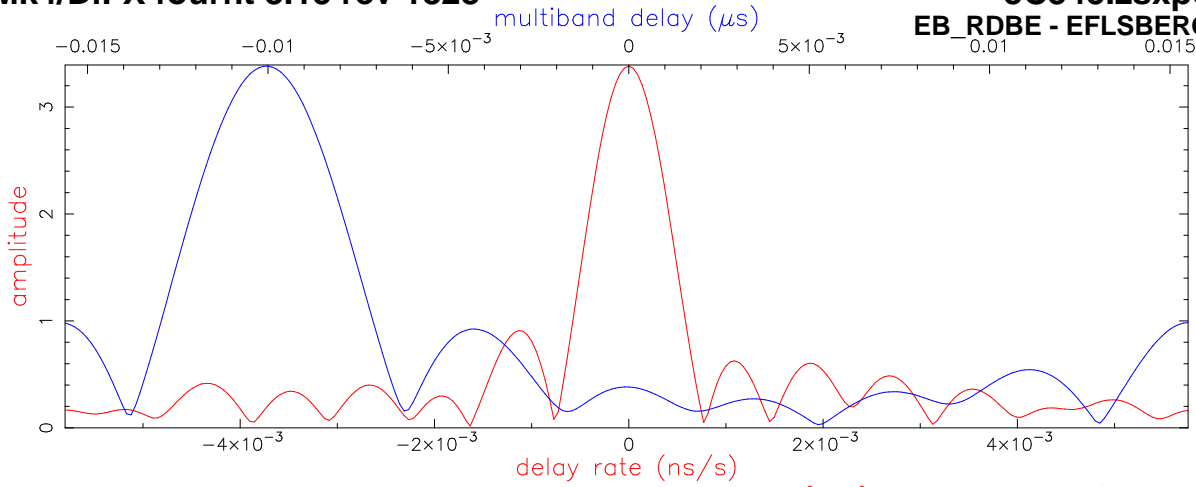


Exp. f172a  
 Exper # 16383  
 Yr:day 2017:271  
 Start 131845.00  
 Stop 131901.00  
 FRT 131730.00  
 Corr/FF/build  
 2017:272:123407  
 2017:272:123654  
 2017:188:152524  
 RA & Dec (J2000)  
 16h42m58.8100s  
 +39°48'36.994"

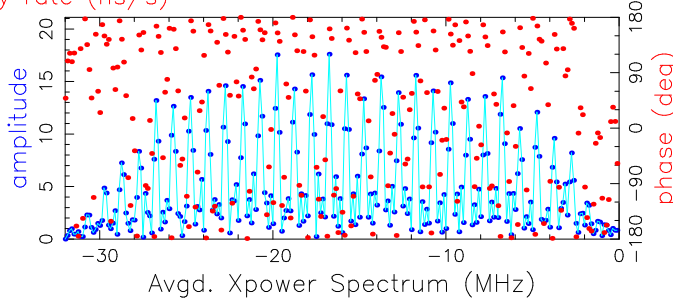
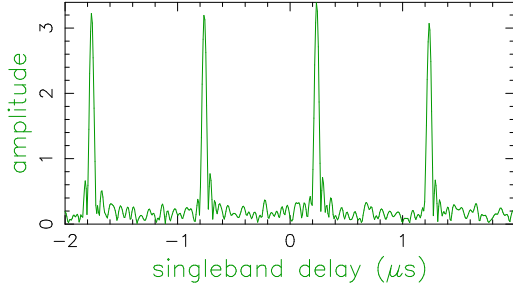
Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-89.1	-92.2	-77.4	-74.9	-88.9	-84.1	-84.1	-88.0	Phase	-84.6
	2.8	3.9	3.4	5.6	4.5	4.6	3.8	6.0	Ampl.	4.3
	415.7	290.6	32.3	162.6	160.6	419.0	160.9	162.7	Sbd box	161.6
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
E	808.1	805.1	804.7	803.7	804.0	804.6	804.5	807.3	PC R delays (ns)	
B	310.3	328.1	308.8	326.9	309.6	328.8	311.7	330.1	PC R delays (ns)	
E:B	-65:8	175:114	68:-136	-37:123	-131:90	125:127	29:-65	-87:116	PC phase	
E:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
E	5	5	6	6	6	6	6	6	PC amp	
B	5	6	5	6	5	6	5	6		
E	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)(model)	2.49991437502E-01		Apriori delay (usec)		2.60000000000E-01		Resid mbdelay (usec)		-1.00086E-02	+/- 6.7E-05
Sband delay (usec)	-4.85302999998E-01		Apriori clock (usec)		2.6000214E-01		Resid sbdelay (usec)		-7.45303E-01	+/- 5.3E-04
Phase delay (usec)	2.59997272259E-01		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-2.72774E-06	+/- 1.1E-07
Delay rate (us/s)	1.43344630670E-08		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		1.43345E-08	+/- 1.2E-08
Total phase (deg)	117.0		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-84.6	+/- 3.5
ph/seg (deg)	RMS 7.2	Theor. 7.0	Amplitude 4.353 +/- 0.134	Pcal mode: MULTITONE, MULTITONE		PC period (AP's) 5, 5		sb window (us)	-2.000	2.000
amp/seg (%)	12.2	12.3	Search (64X32) 4.274	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: disabled		mb window (us)	-0.016	0.016
ph/frq (deg)	6.5	5.0	Interp. 0.000	Bits/sample: 2x2		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.006	0.006
amp/frq (%)	22.8	8.7	Inc. seg. avg. 4.307	Data rate(Mb/s): 1024		nlags: 256 t_cohere infinite		ion window (TEC)	0.00	0.00
			Inc. frq. avg. 4.309	u,v (fr/asec) 0.000 0.000				simultaneous interpolator		

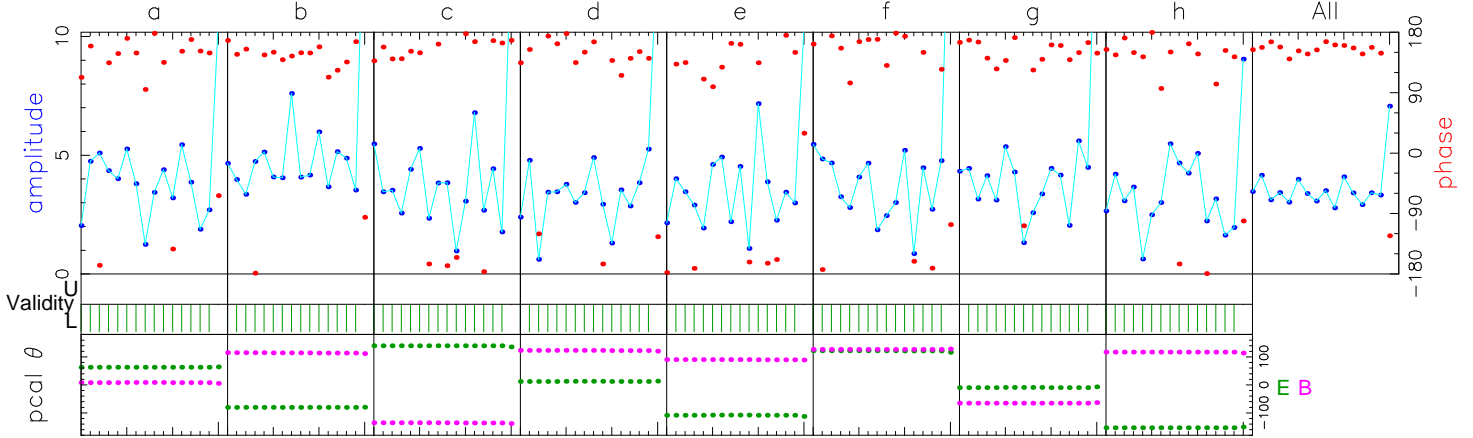


Fringe quality 9  
 Error code H  
 SNR 25.4  
 Int time 15.000  
 Amp 3.394  
 Phase 155.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.236067  
 MBD -0.010042  
 Fringe rate (Hz)  
 -0.001352  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86156.000  
 AP (sec) 1.000



Exp. f172a  
 Exper # 16383  
 Yr:day 2017:271  
 Start 131845.00  
 Stop 131901.00  
 FRT 131730.00  
 Corr/FF/build  
 2017:272:123407  
 2017:272:123655  
 2017:188:152524  
 RA & Dec (J2000)  
 16h42m58.8100s  
 +39°48'36.994"

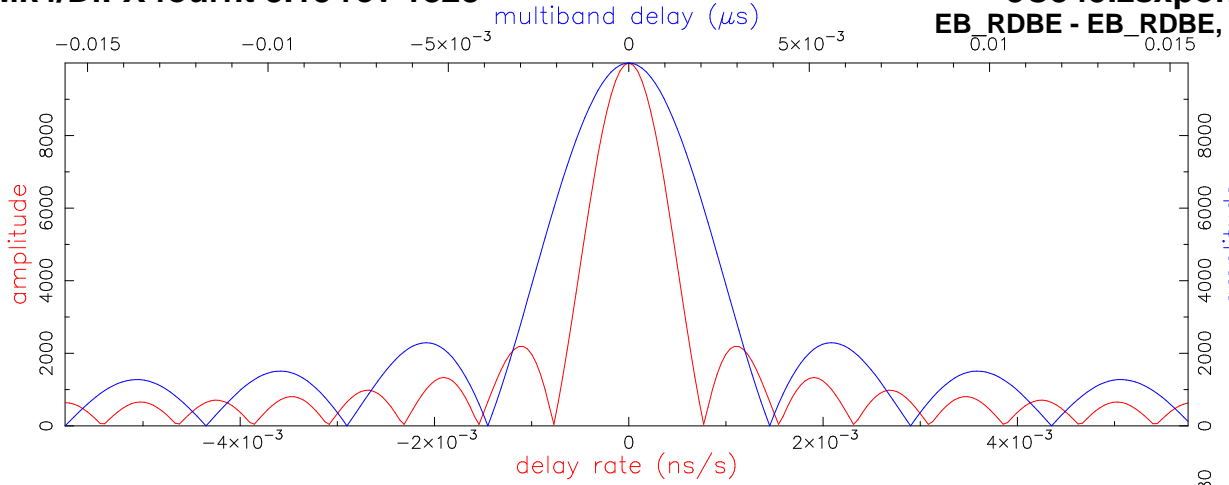
Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	158.6	148.5	162.0	154.5	150.4	162.4	153.9	153.4	Phase	155.3
	3.3	4.4	3.5	3.1	3.0	3.4	3.6	2.9	Ampl.	3.4
	285.7	288.0	157.9	32.9	285.7	32.2	286.1	32.2	Sbd box	287.2
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
E	826.4	824.4	823.4	821.0	822.7	823.2	822.6	825.7	PC L delays (ns)	
B	310.3	328.1	308.8	326.9	309.6	328.8	311.7	330.1	PC R delays (ns)	
E:B	63:8	-80:114	139:-136	13:123	-109:90	120:127	-9:-65	-152:116	PC phase	
E:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
E	5	5	5	5	5	5	4	4	PC amp	
B	5	6	5	6	5	6	5	6		
E	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)(model)	2.49957812502E-01		Apriori delay (usec)		2.60000000002E-01		Resid mbdelay (usec)		-1.00422E-02	+/- 8.5E-05
Sband delay (usec)	4.96066500002E-01		Apriori clock (usec)		2.6000214E-01		Resid sbdelay (usec)		2.36067E-01	+/- 6.8E-04
Phase delay (usec)	2.60005007962E-01		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		5.00796E-06	+/- 1.5E-07
Delay rate (us/s)	-1.56924648312E-08		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-1.56925E-08	+/- 1.6E-08
Total phase (deg)	356.9		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		155.3	+/- 4.5

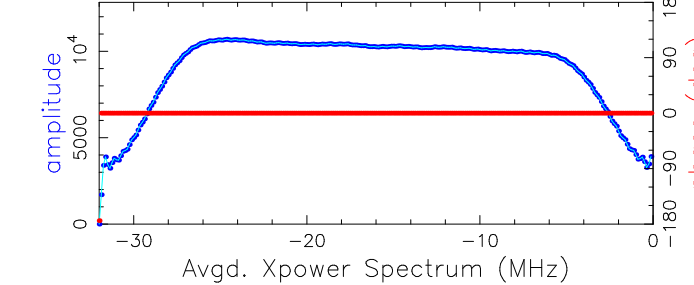
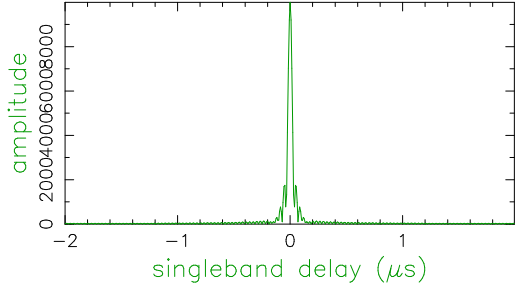
ph/seg (deg) 7.4 9.0 Search (64X32) 3.353 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5  
 amp/seg (%) 12.3 15.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000  
 ph/frq (deg) 5.5 6.4 Inc. seg. avg. 3.372 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016  
 amp/frq (%) 13.2 11.1 Inc. frq. avg. 3.375 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite dr window (ns/s) -0.006 0.006  
 E: az 97.3 el 61.5 pa -55.2 B: az 97.3 el 61.5 pa -55.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/f172a/1234/No0006/EB.zsxph Output file: /Exps/f172a/1234/No0006/EB.W.3.zsxph



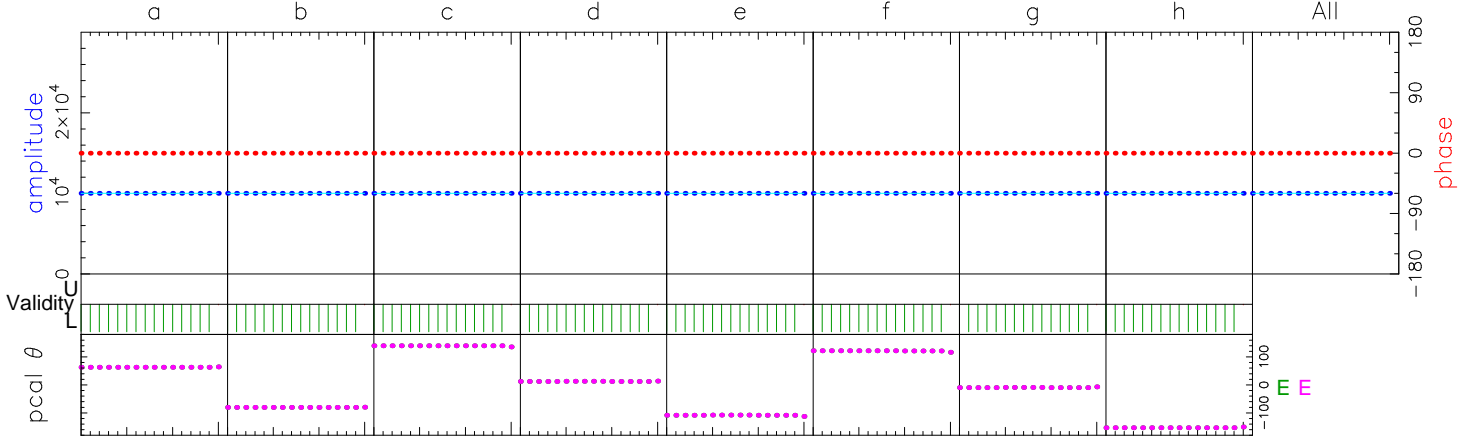


Fringe quality 9  
Error code H  
SNR 74891.3  
Int time 15.000  
Amp 9999.999  
Phase 0.0  
PFD 0.0e+00  
Delays (us)  
SBD 0.000000  
MBD 0.000000  
Fringe rate (Hz)  
0.000000  
Ion TEC 0.000  
Ref freq (MHz)  
86156.0000  
AP (sec) 1.000

Exp. f172a  
Exper # 16383  
Yr:day 2017:271  
Start 131845.00  
Stop 131901.00  
FRT 131730.00  
Corr/FF/build  
2017:272:123407  
2017:272:123703  
2017:188:152524  
RA & Dec (J2000)  
16h42m58.8100s  
+39°48'36.994"

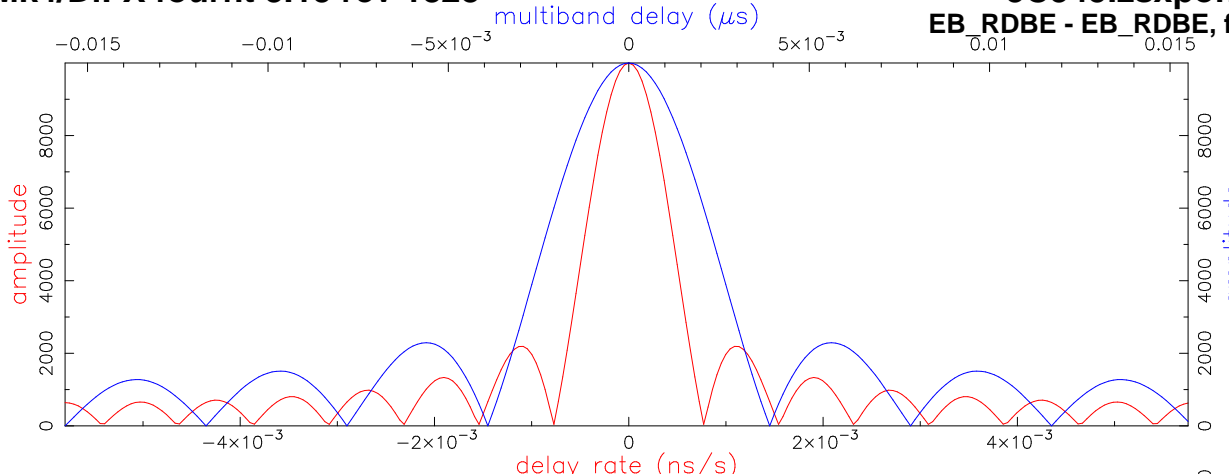


Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec

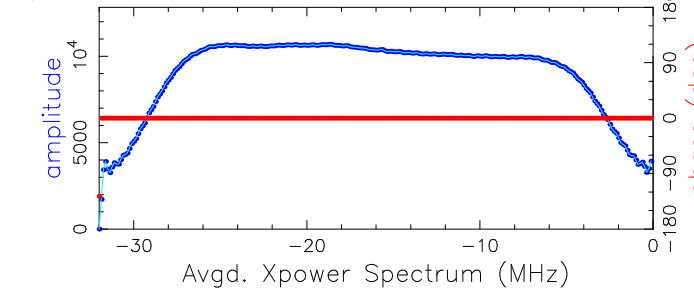
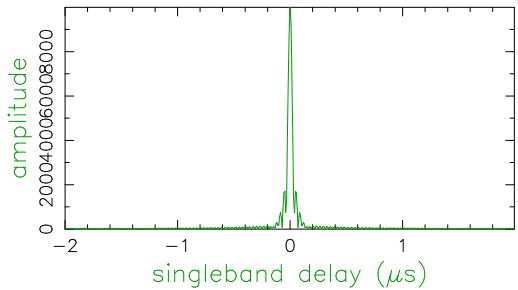


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16		
E	826.4	824.4	823.4	821.0	822.7	823.2	822.6	825.7	Phase	0.0
E	826.4	824.4	823.4	821.0	822.7	823.2	822.6	825.7	Ampl.	10000.0
E:E	63:63	-80:-80	139:139	13:13	-109:-109	120:120	-9:-9	-152:-152	Sbd box	257.0
E:E	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
E	5	5	5	5	5	5	4	4	PC L delays (ns)	
E	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	PC L delays (ns)	
E	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	PC phase	
									ManI PC	
									PC amp	
									Chan ids	
									Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(model)	0.0000000000E+00			Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.9E-08	
Sband delay (usec)	0.0000000000E+00			Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	2.3E-07	
Phase delay (usec)	0.0000000000E+00			Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	4.9E-11	
Delay rate (us/s)	0.0000000000E+00			Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	5.3E-12	
Total phase (deg)		0.0		Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0	

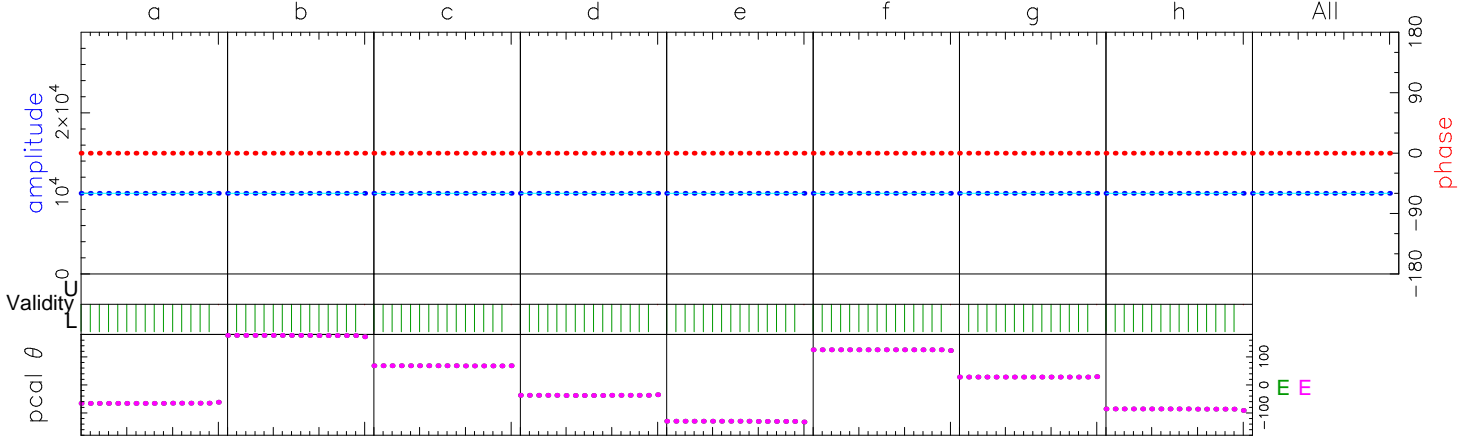
ph/seg (deg) 0.0 0.0 Theor. Amplitude 9999.999 +/- 0.134 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5  
 amp/seg (%) 0.0 0.0 Search (64X32) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000  
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled 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: 256 t\_cohere infinite dr window (ns/s) -0.006 0.006  
 Inc. frq. avg. 9999.999 ion window (TEC) 0.00 0.00



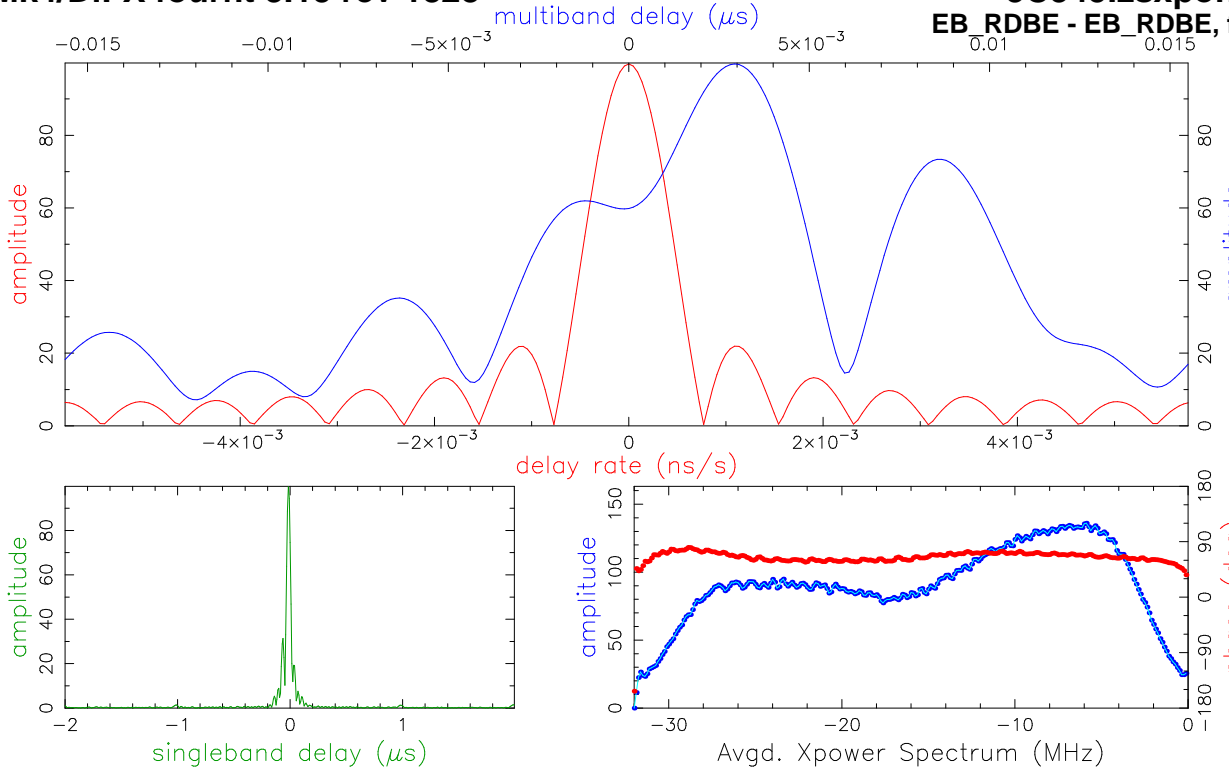
Fringe quality 9  
 SNR 74891.3  
 Int time 15.000  
 Amp 9999.999  
 Phase 0.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.000000  
 MBD 0.000000  
 Fringe rate (Hz)  
 0.000000  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86156.0000  
 AP (sec) 1.000  
 Exp. f172a  
 Exper # 16383  
 Yr:day 2017:271  
 Start 131845.00  
 Stop 131901.00  
 FRT 131730.00  
 Corr/FF/build  
 2017:272:123407  
 2017:272:123703  
 2017:188:152524  
 RA & Dec (J2000)  
 16h42m58.8100s  
 +39°48'36.994"



Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec

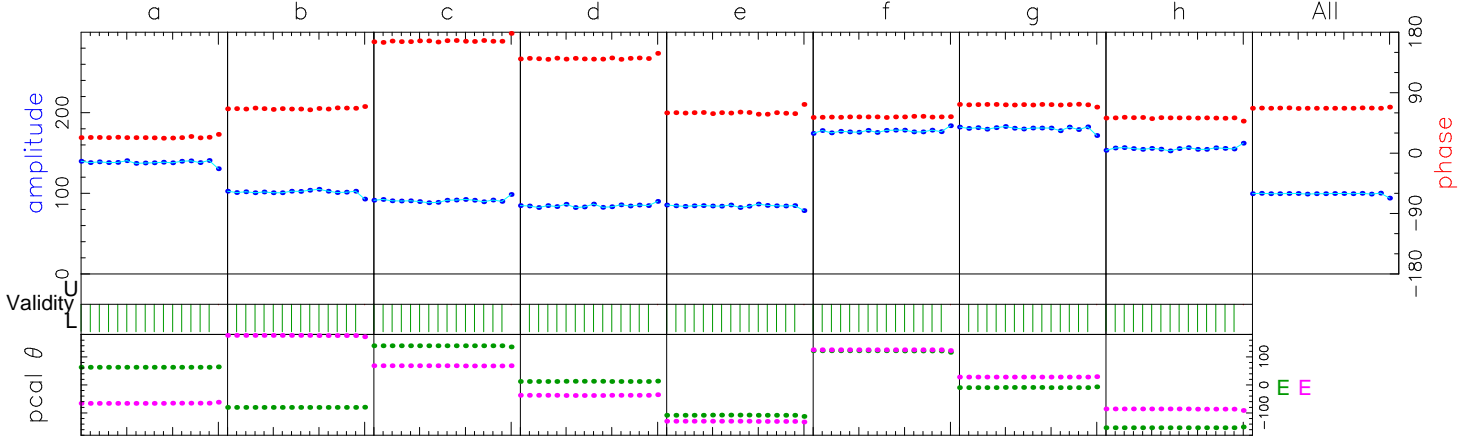


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All		
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16				
E	808.1	805.1	804.7	803.7	804.0	804.6	804.5	807.3	APs used			
E	808.1	805.1	804.7	803.7	804.0	804.6	804.5	807.3	PC R delays (ns)			
E:E	-65:-65	175:175	68:68	-37:-37	-131:-131	125:125	29:29	-87:-87	PC phase			
E:E	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC			
E	5	5	6	6	6	6	6	6	PC amp			
E	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids			
E	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks			
									Chan ids			
									Tracks			
Group delay (usec)(model)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	+/-	2.9E-08		
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	+/-	2.3E-07		
Phase delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	+/-	4.9E-11		
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	+/-	5.3E-12		
Total phase (deg)			0.0							0.0		
				Apriori delay (usec)					Resid mbdelay (usec)	0.00000E+00	+/- 2.9E-08	
				Apriori clock (usec)					Resid sbdelay (usec)	0.00000E+00	+/- 2.3E-07	
				Apriori clockrate (us/s)					Resid phdelay (usec)	0.00000E+00	+/- 4.9E-11	
				Apriori rate (us/s)					Resid rate (us/s)	0.00000E+00	+/- 5.3E-12	
				Apriori accel (us/s/s)					Resid phase (deg)	0.0	+/- 0.0	
ph/seg (deg)	0.0	0.0	0.0	9999.999 +/- 0.134	9999.999	9999.999	9999.999	9999.999	Pcal mode: MULTITONE, MULTITONE	PC period (AP's) 5, 5		
amp/seg (%)	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-2.000 2.000	
ph/frq (deg)	0.0	0.0	0.0	10000.000	10000.000	10000.000	10000.000	10000.000	Bits/sample: 2x2	SampCntNorm: disabled	mb window (us)	-0.016 0.016
amp/frq (%)	0.0	0.0	0.0	9999.999	9999.999	9999.999	9999.999	9999.999	Sample rate(MSamp/s): 64		dr window (ns/s)	-0.006 0.006
									Data rate(Mb/s): 1024	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00



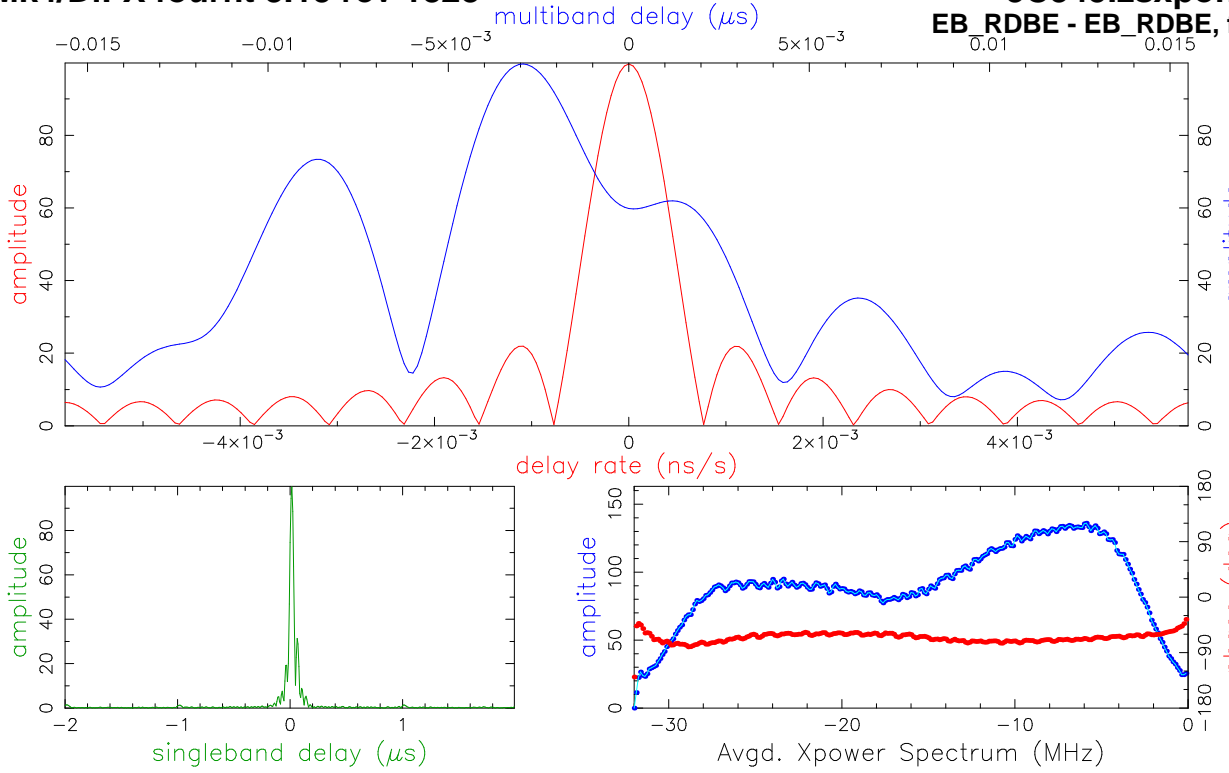
Fringe quality 5  
Error code H  
SNR 748.3  
Int time 15.000  
Amp 99.912  
Phase 66.8  
PFD 0.0e+00  
Delays (us)  
SBD -0.014242  
MBD 0.002931  
Fringe rate (Hz)  
-0.000028  
Ion TEC 0.000  
Ref freq (MHz)  
86156.000  
AP (sec) 1.000  
Exp. f172a  
Exper # 16383  
Yr:day 2017:271  
Start 131845.00  
Stop 131901.00  
FRT 131730.00  
Corr/FF/build  
2017:272:123407  
2017:272:123703  
2017:188:152524  
RA & Dec (J2000)  
16h42m58.8100s  
+39°48'36.994"

Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



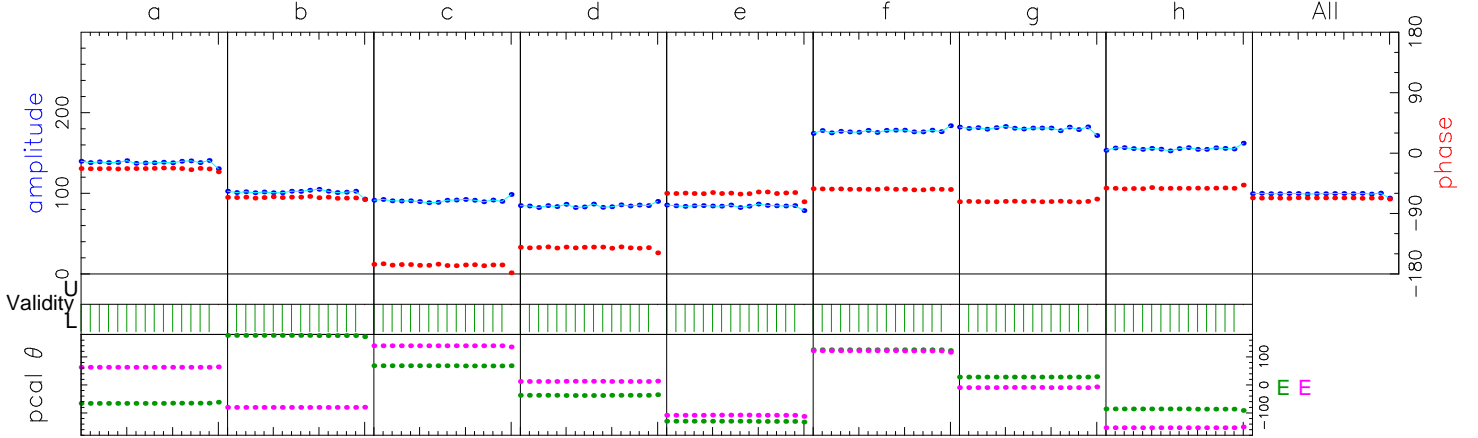
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	23.1	66.0	166.4	140.5	59.6	53.8	72.1	52.4	Phase	66.8
	138.7	102.1	90.7	84.3	84.6	176.7	180.8	155.2	Ampl.	126.6
	254.9	256.6	255.4	253.7	254.4	255.1	255.6	254.5	Sbd box	255.2
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
E	826.4	824.4	823.4	821.0	822.7	823.2	822.6	825.7	PC L delays (ns)	
E	808.1	805.1	804.7	803.7	804.0	804.6	804.5	807.3	PC R delays (ns)	
E:E	63:-65	-80:175	139:68	13:-37	-109:-131	120:125	-9:29	-152:-87	PC phase	
E:E	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
E	5	5	5	5	5	5	4	4	PC amp	
E	5	5	6	6	6	6	6	6		
E	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
E	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(model)	2.93100000000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		2.93100E-03	+/- 2.9E-06
Sband delay (usec)	-1.42420000000E-02		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-1.42420E-02	+/- 2.3E-05
Phase delay (usec)	2.15515857945E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		2.15516E-06	+/- 4.9E-09
Delay rate (us/s)	-3.24991875203E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-3.24992E-10	+/- 5.3E-10
Total phase (deg)	66.8		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		66.8	+/- 0.2

ph/seg (deg) 0.2 0.3 Theor. Amplitude 99.912 +/- 0.134 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5  
 amp/seg (%) 0.4 0.5 Search (64X32) 99.647 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000  
 ph/frq (deg) 54.3 0.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016  
 amp/frq (%) 46.9 0.4 Inc. seg. avg. 99.647 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite dr window (ns/s) -0.006 0.006  
 Inc. frq. avg. 126.633 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00



Fringe quality 5  
Error code H  
SNR 748.3  
Int time 15.000  
Amp 99.912  
Phase -66.8  
PFD 0.0e+00  
Delays (us)  
SBD 0.014242  
MBD -0.002931  
Fringe rate (Hz) 0.000028  
Ion TEC 0.000  
Ref freq (MHz) 86156.000  
AP (sec) 1.000  
Exp. f172a  
Exper # 16383  
Yr:day 2017:271  
Start 131845.00  
Stop 131901.00  
FRT 131730.00  
Corr/FF/build  
2017:272:123407  
2017:272:123703  
2017:188:152524  
RA & Dec (J2000)  
16h42m58.8100s  
+39°48'36.994"

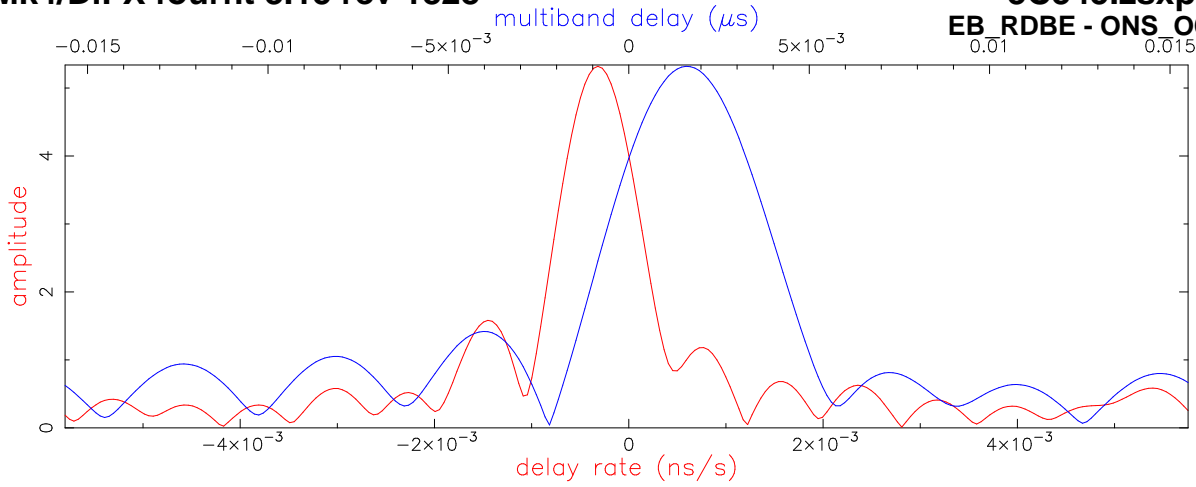
Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All		
-23.1	-66.0	-166.4	-140.5	-59.6	-53.8	-72.1	-52.4	Phase	-66.8		
138.7	102.1	90.7	84.3	84.6	176.7	180.8	155.2	Ampl.	126.6		
259.1	257.4	258.6	260.3	259.6	258.9	258.4	259.5	Sbd box	258.8		
U/L 0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used			
E 808.1	805.1	804.7	803.7	804.0	804.6	804.5	807.3	PC R delays (ns)			
E 826.4	824.4	823.4	821.0	822.7	823.2	822.6	825.7	PC L delays (ns)			
E:E -65:63	175:-80	68:139	-37:13	-131:-109	125:120	29:-9	-87:-152	PC phase			
E:E 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC			
E 5	5	5	5	5	5	5	5	PC amp			
E W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids			
E W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks			
Group delay (usec)(model)		-2.9310000000E-03		Apriori delay (usec)		0.0000000000E+00		Resid mbdelay (usec)		-2.93100E-03 +/- 2.9E-06	
Sband delay (usec)		1.4242000000E-02		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		1.42420E-02 +/- 2.3E-05	
Phase delay (usec)		-2.15515857902E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-2.15516E-06 +/- 4.9E-09	
Delay rate (us/s)		3.24991875203E-10		Apriori rate (us/s)		0.0000000000E+00		Resid rate (us/s)		3.24992E-10 +/- 5.3E-10	
Total phase (deg)		-66.8		Apriori accel (us/s/s)		0.0000000000E+00		Resid phase (deg)		-66.8 +/- 0.2	

ph/seg (deg) 0.2 0.3 Theor. Amplitude 99.912 +/- 0.134 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5  
 amp/seg (%) 0.4 0.5 Search (64X32) 99.647 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000  
 ph/frq (deg) 54.3 0.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016  
 amp/frq (%) 46.9 0.4 Inc. seg. avg. 99.647 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite dr window (ns/s) -0.006 0.006  
 Inc. frq. avg. 126.633 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00





Fringe quality 9

SNR 39.9

Int time 15.000

Amp 5.338

Phase -44.5

PFD 0.0e+00

Delays (us)

SBD -0.006510

MBD 0.001611

Fringe rate (Hz)

-0.029203

Ion TEC 0.000

Ref freq (MHz)

86156.0000

AP (sec) 1.000

Exp. f172a

Exper # 16383

Yr:day 2017:271

Start 131845.00

Stop 131901.00

FRT 131730.00

Corr/FF/build

2017:272:123407

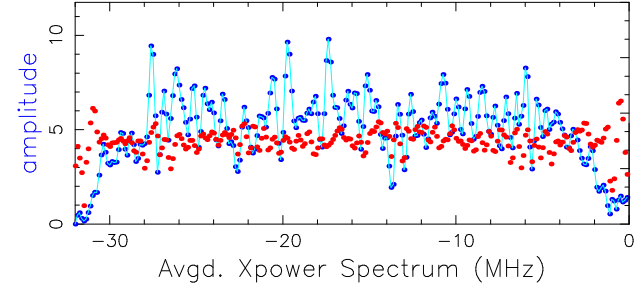
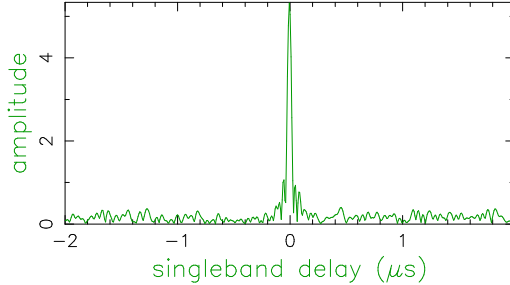
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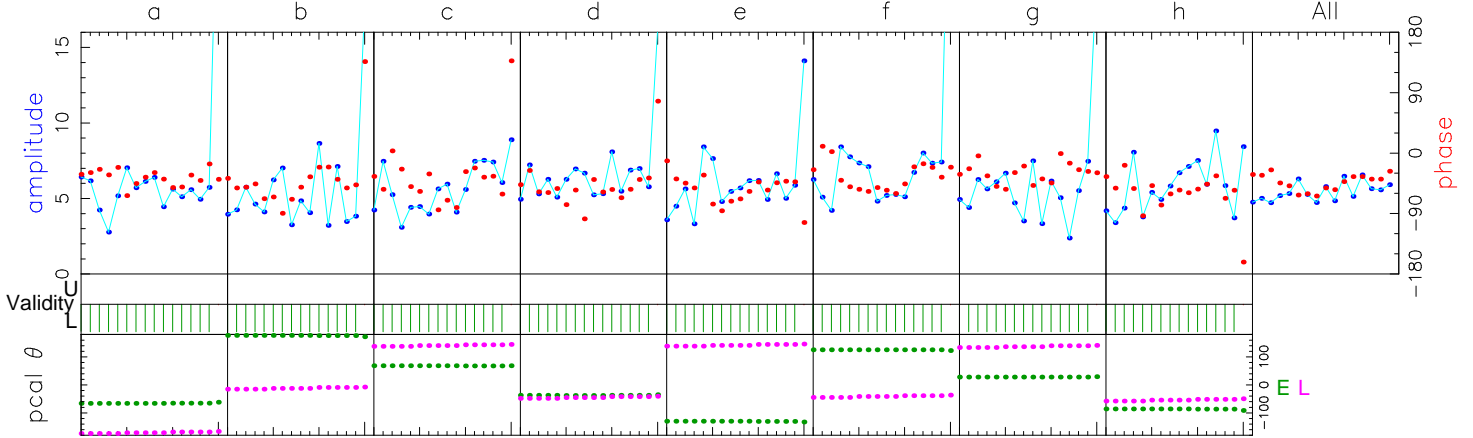
RA & Dec (J2000)

16h42m58.8100s

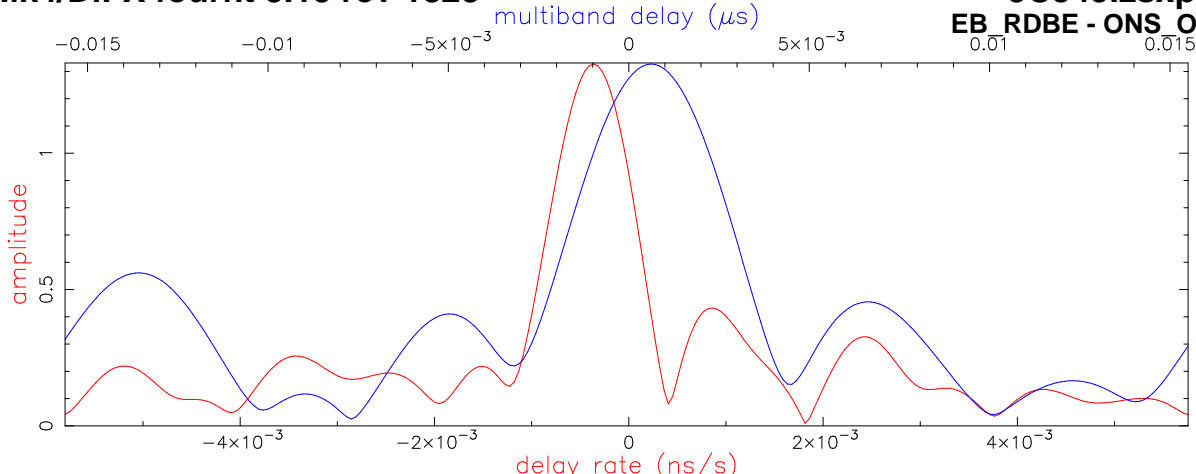
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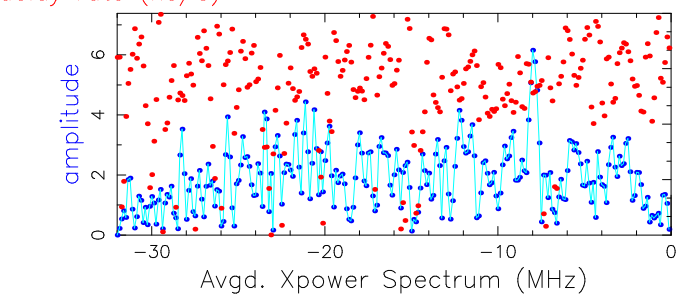
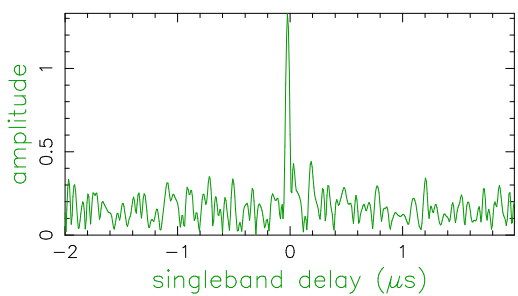
Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



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	88012.00	88044.00	88076.00	88108.00	88140.00	88172.00	88204.00	88236.00	88268.00	88300.00	88332.00	88364.00	88396.00	88428.00	88460.00	88492.00	88524.00	88556.00	88588.00	88620.00	88652.00	88684.00	88716.00	88748.00	88780.00	88812.00	88844.00	88876.00	88908.00	88940.00	88972.00	89004.00	89036.00	89068.00	89100.00	89132.00	89164.00	89196.00	89228.00	89260.00	89292.00	89324.00	89356.00	89388.00	89420.00	89452.00	89484.00	89516.00	89548.00	89580.00	89612.00	89644.00	89676.00	89708.00	89740.00	89772.00	89804.00	89836.00	89868.00	89900.00	89932.00	89964.00	89996.00	90028.00	90060.00	90092.00	90124.00	90156.00	90188.00	90220.00	90252.00	90284.00	90316.00	90348.00	90380.00	90412.00	90444.00	90476.00	90508.00	90540.00	90572.00	90604.00	90636.00	90668.00	90700.00	90732.00	90764.00	90796.00	90828.00	90860.00	90892.00	90924.00	90956.00	90988.00	91020.00	91052.00	91084.00	91116.00	91148.00	91180.00	91212.00	91244.00	91276.00	91308.00	91340.00	91372.00	91404.00	91436.00	91468.00	91500.00	91532.00	91564.00	91596.00	91628.00	91660.00	91692.00	91724.00	91756.00	91788.00	91820.00	91852.00	91884.00	91916.00	91948.00	91980.00	92012.00	92044.00	92076.00	92108.00	92140.00	92172.00	92204.00	92236.00	92268.00	92300.00	92332.00	92364.00	92396.00	92428.00	92460.00	92492.00	92524.00	92556.00	92588.00	92620.00	92652.00	92684.00	92716.00	92748.00	92780.00	92812.00	92844.00	92876.00	92908.00	92940.00	92972.00	93004.00	93036.00	93068.00	93100.00	93132.00	93164.00	93196.00	93228.00	93260.00	93292.00	93324.00	93356.00	93388.00	93420.00	93452.00	93484.00	93516.00	93548.00	93580.00	93612.00	93644.00	93676.00	93708.00	93740.00	93772.00	93804.00	93836.00	93868.00	93900.00	93932.00	93964.00	93996.00	94028.00	94060.00	94092.00	94124.00	94156.00	94188.00	94220.00	94252.00	94284.00	94316.00	94348.00	94380.00	94412.00	94444.00	94476.00	94508.00	94540.00	94572.00	94604.00	94636.00	94668.00	94700.00	94732.00	94764.00	94796.00	94828.00	94860.00	94892.00	94924.00	94956.00	94988.00	95020.00	95052.00	95084.00	95116.00	95148.00	95180.00	95212.00	95244.00	95276.00	95308.00	95340.00	95372.00	95404.00	95436.00	95468.00	95500.00	95532.00	95564.00	95596.00	95628.00	95660.00	95692.00	95724.00	95756.00	95788.00	95820.00	95852.00	95884.00	95916.00	95948.00	95980.00	96012.00	96044.00	96076.00	96108.00	96140.00	96172.00	96204.00	96236.00	96268.00	96300.00	96332.00	96364.00	96396.00	96428.00	96460.00	96492.00	96524.00	96556.00	96588.00	96620.00	96652.00	96684.00	96716.00	96748.00	96780.00	96812.00	96844.00	96876.00	96908.00	96940.00	96972.00	97004.00	97036.00	97068.00	97100.00	97132.00	97164.00	97196.00	97228.00	97260.00	97292.00	97324.00	97356.00	97388.00	97420.00	97452.00	97484.00	97516.00	97548.00	97580.00	97612.00	97644.00	97676.00	97708.00	97740.00	97772.00	97804.00	97836.00	97868.00	97900.00	97932.00	97964.00	97996.00	98028.00	98060.00	98092.00	98124.00	98156.00	98188.00	98220.00	98252.00	98284.00	98316.00	98348.00	98380.00	98412.00	98444.00	98476.00	98508.00	98540.00	98572.00	98604.00	98636.00	98668.00	98700.00	98732.00	98764.00	98796.00	98828.00	98860.00	98892.00	98924.00	98956.00	98988.00	99020.00	99052.00	99084.00	99116.00	99148.00	99180.00	99212.00	99244.00	99276.00	99308.00	99340.00	99372.00	99404.00	99436.00	99468.00	99500.00	99532.00	99564.00	99596.00	99628.00	99660.00	99692.00	99724.00	99756.00	99788.00	99820.00	99852.00	99884.00	99916.00	99948.00	99980.00	100012.00	100044.00	100076.00	100108.00	100140.00	100172.00	100204.00	100236.00	100268.00	100300.00	100332.00	100364.00	100396.00	100428.00	100460.00	100492.00	100524.00	100556.00	100588.00	100620.00	100652.00	100684.00	100716.00	100748.00	100780.00	100812.00	100844.00	100876.00	100908.00	100940.00	100972.00	101004.00	101036.00	101068.00	101100.00	101132.00	101164.00	101196.00	101228.00	101260.00	101292.00	101324.00	101356.00	101388.00	101420.00	101452.00	101484.00	101516.00	101548.00	101580.00	101612.00	101644.00	101676.00	101708.00	101740.00	101772.00	101804.00	101836.00	101868.00	101900.00	101932.00	101964.00	101996.00	102028.00	102060.00	102092.00	102124.00	102156.00	102188.00	102220.00	102252.00	102284.00	102316.00	102348.00	102380.00	102412.00	102444.00	102476.00	102508.00	102540.00	102572.00	102604.00	102636.00	102668.00	102700.00	102732.00	102764.00	102796.00	102828.00	102860.00	102892.00	102924.00	102956.00	102988.00	103020.00	103052.00	103084.00	103116.00	103148.00	103180.00	103212.00	103244.00	103276.00	103308.00	103340.00	103372.00	103404.00	103436.00	103468.00	103500.00	103532.00	103564.00	103596.00	103628.00	103660.00	103692.00	103724.00	103756.00	103788.00	103820.00	103852.00	103884.00	103916.00	103948.00	103980.00	104012.00	104044.00	104076.00	104108.00	104140.00	104172.00	104204.00	104236.00	104268.00	104300.00	104332.00	104364.00	104396.00	104428.00	104460.00	104492.00	104524.00	104556.00	104588.00	104620.00	104652.00	104684.00	104716.00	104748.00	104780.00	104812.00	104844.00	104876.00	104908.00	104940.00	104972.00	105004.00	105036.00	105068.00	105100.00	105132.00	105164.00	105196.00	105228.00	105260.00	105292.00	105324.00	105356.00	105388.00	105420.00	105452.00	105484.00	105516.00	105548.00	105580.00	105612.00	105644.00	105676.00	105708.00	105740.00	105772.00	105804.00	105836.00	105868.00	105900.00	105932.00	105964.00	105996.00	106028.00	106060.00	106092.00	106124.00	106156.00	106188.00	106220.00	106252.00	106284.00	106316.00	106348.00	106380.00	106412.00	106444.00	106476.00	106508.00	106540.00	106572.00	106604.00	106636.00	106668.00	106700.00	106732.00	106764.00	106796.00	106828.00	106860.00	106892.00	106924.00	106956.00	106988.00	107020.00	107052.00	107084.00	107116.00	107148.00	107180.00	107212.00	107244.00	107276.00	107308.00	107340.00	107372.00	107404.00	107436.00	107468.00	107500.00	107532.00	107564.00	107596.00	107628.00	107660.00	107692.00	107724.00	107756.00	107788.00	107820.00	107852.00	107884.00	107916.00	107948.00	107980.00	108012.00	108044.00	108076.00	108108.00	108140.00	108172.00	108204.00	108236.00	108268.00	108300.00	108332.00	108364.00	108396.00	108428.00	108460.00	108492.00	108524.00	108556.00	108588.00	108620.00	108652.00	108684.00	108716.00	108748.00	108780.00	108812.00	108844.00	108876.00	108908.00	108940.00	108972.00	109004.00	109036.00	109068.00	109100.00	109132.00	109164.00	109196.00	109228.00	109260.00	109292.00	109324.00	109356.00	109388.00	109420.00	109452.00	109484.00	109516.00	109548.00	109580.00	109612.00	109644.00	109676.00	109708.00	109740.00	109772.00	109804.00	109836.00	109868.00	109900.00	109932.00	109964.00	109996.00	110028.00	110060.00	110092.00	110124.00	110156.00	110188.00	110220.00	110252.00	110284.00	110316.00	110348.00	110380.00	110412.00	110444.00	110476.00	110508.00	110540.00	110572.00	110604.00	110636.00	110668.00	110700.00	110732.00	110764.00	110796.00	110828.00	110860.00	110892.00	110924.00	110956.00	110988.00	111020.00	111052.00	111084.00	111116.00	111148.00	111180.00	111212.00	111244.00
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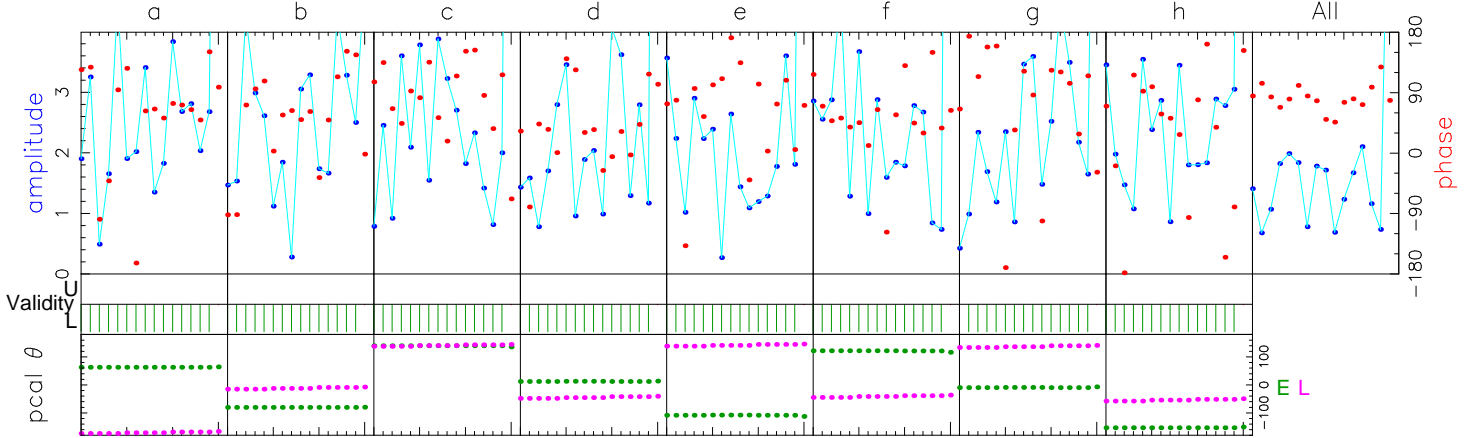


Fringe quality 9  
Error code H  
SNR 9.9  
Int time 15.000  
Amp 1.331  
Phase 80.2  
PFD 3.4e-16  
Delays (us)  
SBD -0.022543  
MBD 0.000625  
Fringe rate (Hz)  
-0.032936  
Ion TEC 0.000  
Ref freq (MHz)  
86156.000  
AP (sec) 1.000



Exp. f172a  
Exper # 16383  
Yr:day 2017:271  
Start 131845.00  
Stop 131901.00  
FRT 131730.00  
Corr/FF/build  
2017:272:123407  
2017:272:123656  
2017:188:152524  
RA & Dec (J2000)  
16h42m58.8100s  
+39°48'36.994"

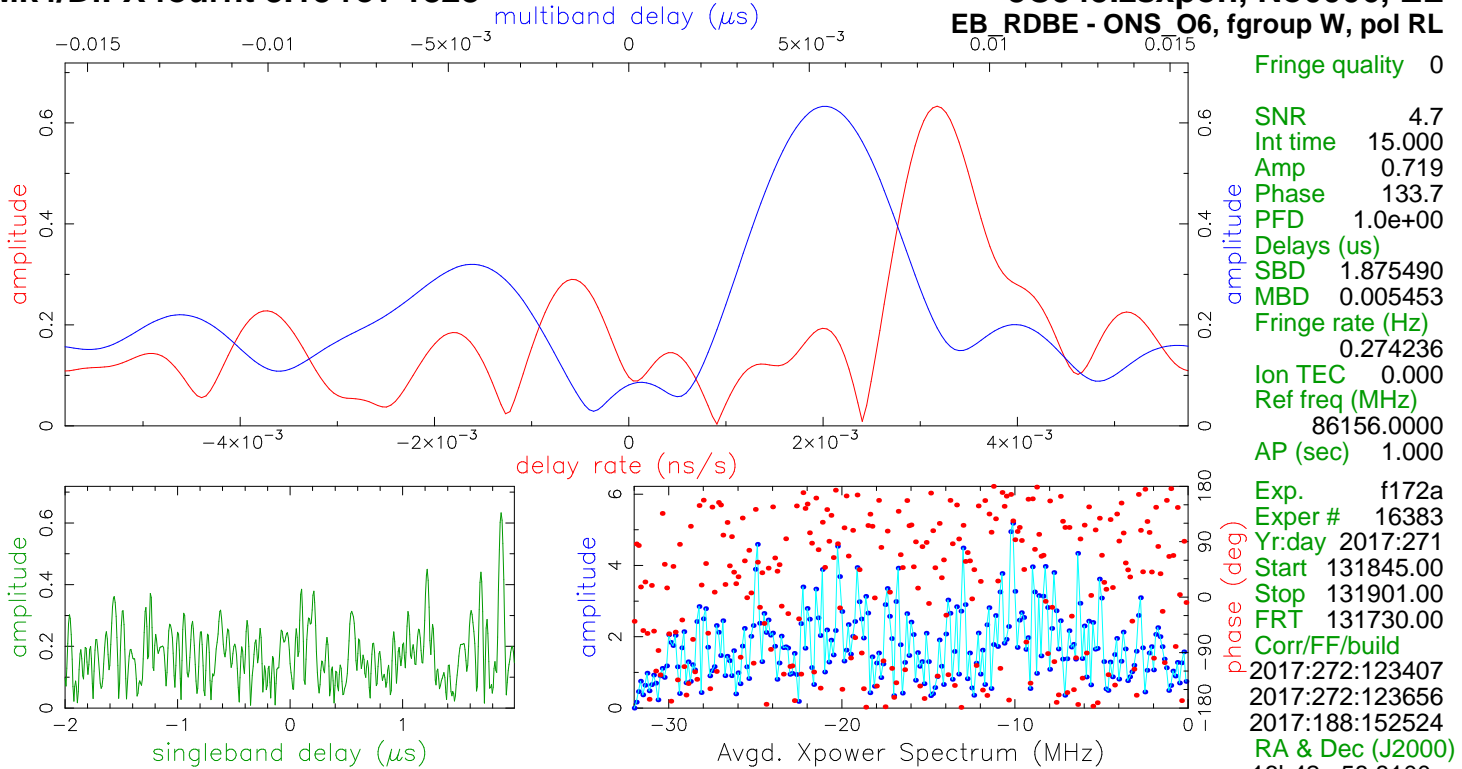
Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16		
E	826.4	824.4	823.4	821.0	822.7	823.2	822.6	825.7	APs used	
L	110.8	113.1	111.3	109.9	109.2	111.0	110.0	111.7	PC L delays (ns)	
E:L	63:-170	-80:-11	139:142	13:-44	-109:143	120:-40	-9:138	-152:-53	PC R delays (ns)	
E:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
E	5	5	5	5	5	5	4	4	ManI PC	
L	45	48	51	47	42	43	47	47	PC amp	
E	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
L	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(model)	-1.15868959610E+02		Apriori delay (usec)		-1.15869584120E+02		Resid mbdelay (usec)		6.24510E-04	+/- 2.2E-04
Sband delay (usec)	-1.15892127120E+02		Apriori clock (usec)		2.0960001E+01		Resid sbdelay (usec)		-2.25430E-02	+/- 1.7E-03
Phase delay (usec)	-1.15869581535E+02		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		2.58528E-06	+/- 3.7E-07
Delay rate (us/s)	1.16381389079E-01		Apriori rate (us/s)		1.16381771362E-01		Resid rate (us/s)		-3.82283E-07	+/- 4.0E-08
Total phase (deg)			Apriori accel (us/s/s)		-4.37314166257E-06		Resid phase (deg)		80.2	+/- 11.5

ph/seg (deg) 19.9 23.0 Theor. Amplitude 1.331 +/- 0.134 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5  
 amp/seg (%) 41.2 40.2 Search (64X32) 1.307 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000  
 ph/frq (deg) 27.5 16.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016  
 amp/frq (%) 22.4 28.4 Inc. seg. avg. 1.285 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite dr window (ns/s) -0.006 0.006  
 Inc. frq. avg. 1.393 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

E: az 97.3 el 61.5 pa -55.2 L: az 115.4 el 62.4 pa -39.0 u,v (fr/asec) -875.878 -756.831 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/f172a/1234/No0006/EL..zsexph Output file: /Exps/f172a/1234/No0006/EL.W.11.zsexph



Fringe quality 0

SNR 4.7

Int time 15.000

Amp 0.719

Phase 133.7

PFD 1.0e+00

Delays (us)

SBD 1.875490

MBD 0.005453

Fringe rate (Hz) 0.274236

Ion TEC 0.000

Ref freq (MHz) 86156.0000

AP (sec) 1.000

Exp. f172a

Exper # 16383

Yr:day 2017:271

Start 131845.00

Stop 131901.00

FRT 131730.00

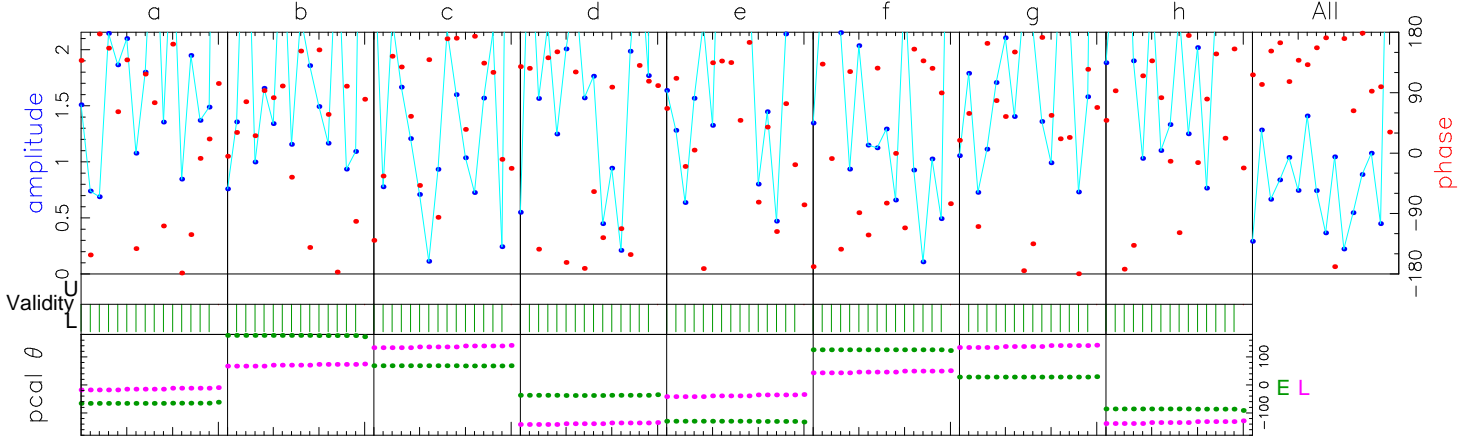
Corr/FF/build 2017:272:123407

2017:272:123656

2017:188:152524

RA & Dec (J2000) 16h42m58.8100s +39°48'36.994"

Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
E	808.1	805.1	804.7	803.7	804.0	804.6	804.5	807.3	PC R delays (ns)	
L	56.0	56.3	57.1	55.1	54.6	56.5	54.2	56.8	PC L delays (ns)	
E:L	-65:-14	175:71	68:137	-37:-138	-131:-38	125:47	29:138	-87:-133	PC phase	
E:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
E	5	5	6	6	6	6	6	6	PC amp	
L	32	33	35	32	29	30	31	31		
E	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
L	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(model)	-1.15864131210E+02			Apriori delay (usec)	-1.15869584120E+02			Resid mbdelay (usec)	5.45291E-03	+/- 4.6E-04
Sband delay (usec)	-1.13994094120E+02			Apriori clock (usec)	2.0960001E+01			Resid sbdelay (usec)	1.87549E+00	+/- 3.6E-03
Phase delay (usec)	-1.15869579810E+02			Apriori clockrate (us/s)	0.0000000E+00			Resid phdelay (usec)	4.30989E-06	+/- 7.8E-07
Delay rate (us/s)	1.16384954379E-01			Apriori rate (us/s)	1.16381771362E-01			Resid rate (us/s)	3.18302E-06	+/- 8.4E-08
Total phase (deg)		-186.5		Apriori accel (us/s/s)	-4.37314166257E-06			Resid phase (deg)	133.7	+/- 24.2

ph/seg (deg) 36.5 Theor. 48.3 Amplitude 0.719 +/- 0.152 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5

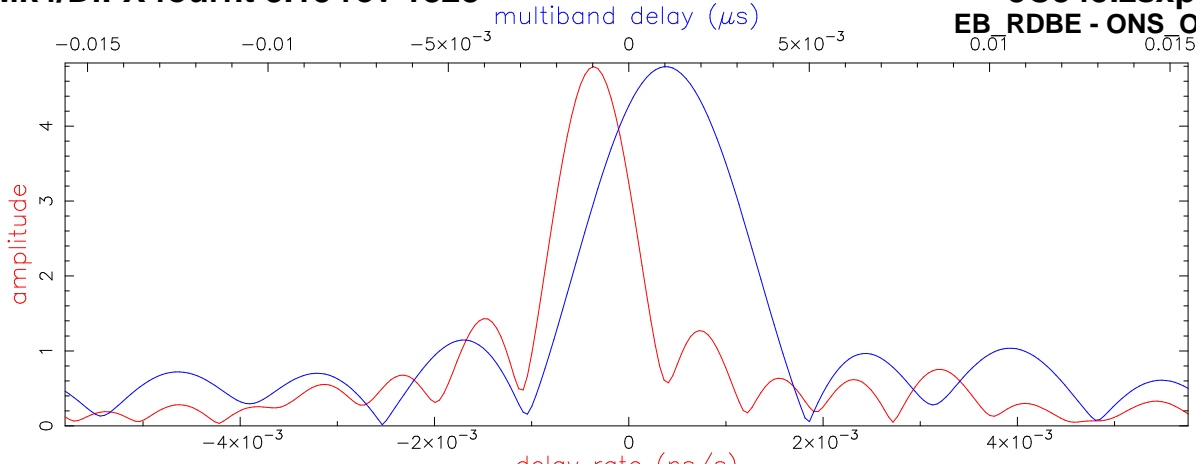
amp/seg (%) 62.6 84.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000

ph/frq (deg) 40.7 34.2 Inc. seg. avg. 0.653 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016

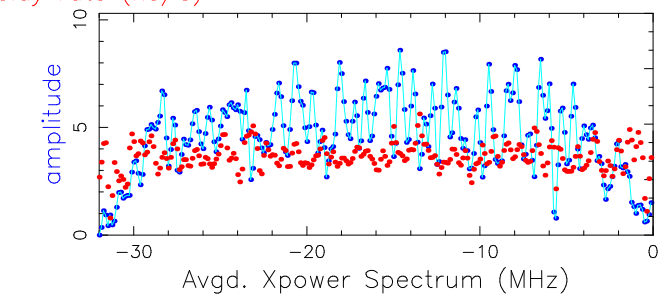
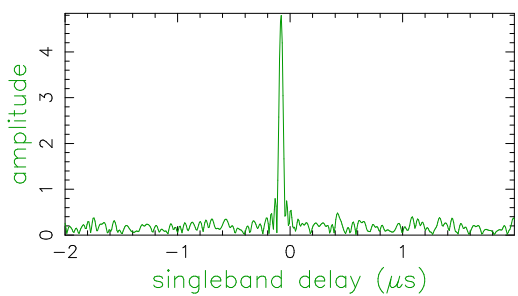
amp/frq (%) 34.0 59.6 Inc. frq. avg. 0.704 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite dr window (ns/s) -0.006 0.006

E: az 97.3 el 61.5 pa -55.2 L: az 115.4 el 62.4 pa -39.0 u,v (fr/asec) -875.878 -756.831 ion window (TEC) 0.00 0.00

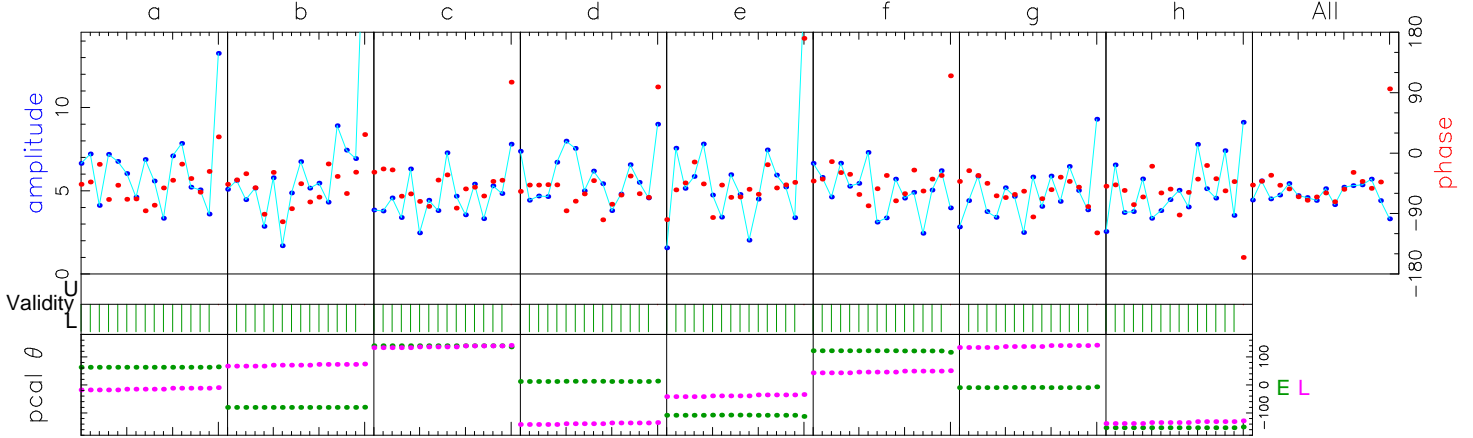
Control file: ../cf\_1234 Input file: /Exps/f172a/1234/No0006/EL..zsexph Output file: /Exps/f172a/1234/No0006/EL.W.12.zsexph simultaneous interpolator



Fringe quality 9  
 Error code H  
 SNR 36.2  
 Int time 15.000  
 Amp 4.843  
 Phase -51.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.080687  
 MBD 0.001037  
 Fringe rate (Hz)  
 -0.030690  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86156.000  
 AP (sec) 1.000  
 Exp. f172a  
 Exper # 16383  
 Yr:day 2017:271  
 Start 131845.00  
 Stop 131901.00  
 FRT 131730.00  
 Corr/FF/build  
 2017:272:123407  
 2017:272:123655  
 2017:188:152524  
 RA & Dec (J2000)  
 16h42m58.8100s  
 +39°48'36.994"



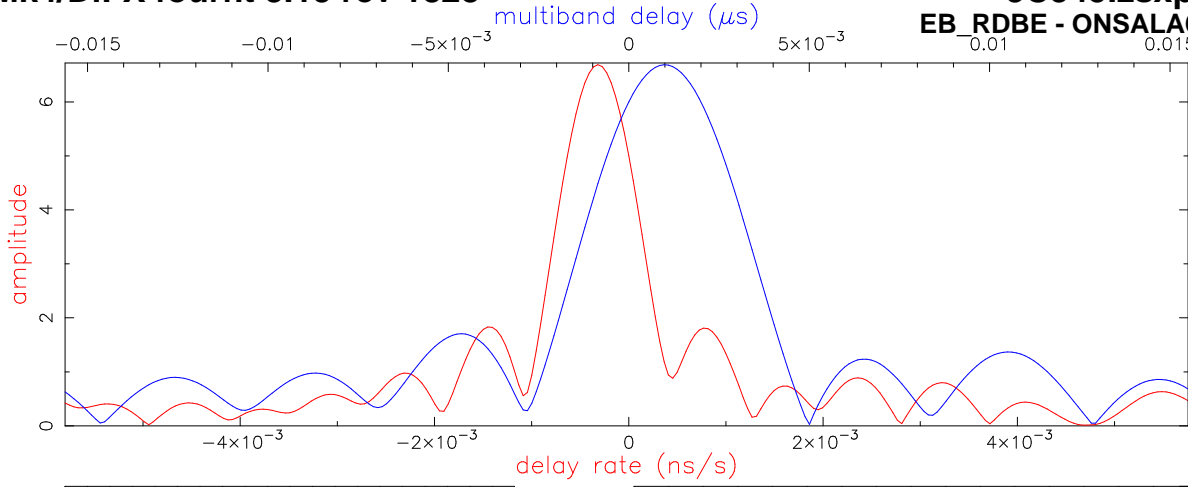
Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



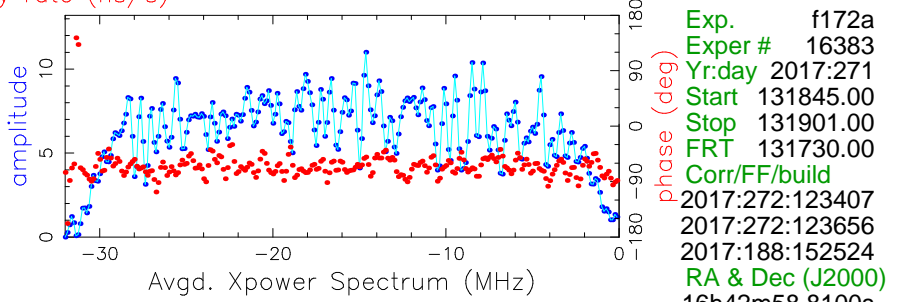
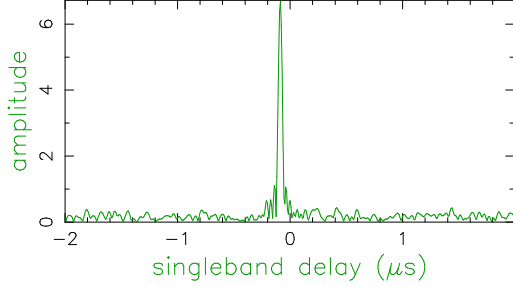
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-50.8	-48.2	-49.3	-60.3	-50.1	-44.6	-54.7	-51.5	Phase	-51.3
5.5	5.0	4.2	5.4	4.7	4.9	4.3	4.5	Ampl.	4.8
246.4	246.9	246.8	246.8	246.8	246.9	246.3	246.5	Sbd box	246.7
U/L 0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
E 826.4	824.4	823.4	821.0	822.7	823.2	822.6	825.7	PC L delays (ns)	
L 56.0	56.3	57.1	55.1	54.6	56.5	54.2	56.8	PC L delays (ns)	
E:L 63:-14	-80:71	139:137	13:-138	-109:-38	120:47	-9:138	-152:-133	PC phase	
E:L 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManL PC	
L 5	5	5	5	5	5	4	4	PC amp	
L 32	33	35	32	29	30	31	31		
E W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
L W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(model)	-1.15868546860E+02		Apriori delay (usec)	-1.15869584120E+02	Resid mbdelay (usec)	1.03726E-03	+/-	6.0E-05	
Sband delay (usec)	-1.15950270620E+02		Apriori clock (usec)	2.0960001E+01	Resid sbdelay (usec)	-8.06865E-02	+/-	4.8E-04	
Phase delay (usec)	-1.15869585774E+02		Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.65330E-06	+/-	1.0E-07	
Delay rate (us/s)	1.16381415148E-01		Apriori rate (us/s)	1.16381771362E-01	Resid rate (us/s)	-3.56214E-07	+/-	1.1E-08	
Total phase (deg)		-11.5	Apriori accel (us/s/s)	-4.37314166257E-06	Resid phase (deg)	-51.3	+/-	3.2	

RMS Theor. Amplitude 4.843 +/- 0.134 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5  
 ph/seg (deg) 13.6 6.3 Search (64X32) 4.793 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000  
 amp/seg (%) 10.1 11.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016  
 ph/frq (deg) 5.1 4.5 Inc. seg. avg. 4.893 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite dr window (ns/s) -0.006 0.006  
 amp/frq (%) 9.0 7.8 Inc. frq. avg. 4.803 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

E: az 97.3 el 61.5 pa -55.2 L: az 115.4 el 62.4 pa -39.0 u,v (fr/asec) -875.878 -756.831 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/f172a/1234/No0006/EL.zsxph Output file: /Exps/f172a/1234/No0006/EL.W.9.zsxph

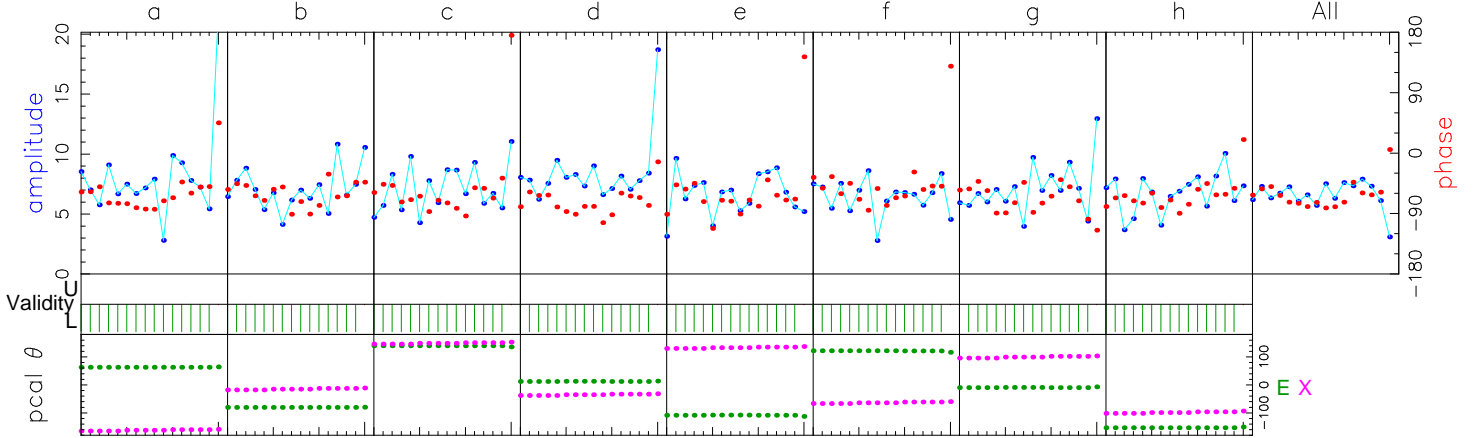


Fringe quality 8  
Error code H  
SNR 50.3  
Int time 15.000  
Amp 6.722  
Phase -65.6  
PFD 0.0e+00  
Delays (us)  
SBD -0.087577  
MBD 0.000994  
Fringe rate (Hz)  
-0.029029  
Ion TEC 0.000  
Ref freq (MHz)  
86156.000  
AP (sec) 1.000



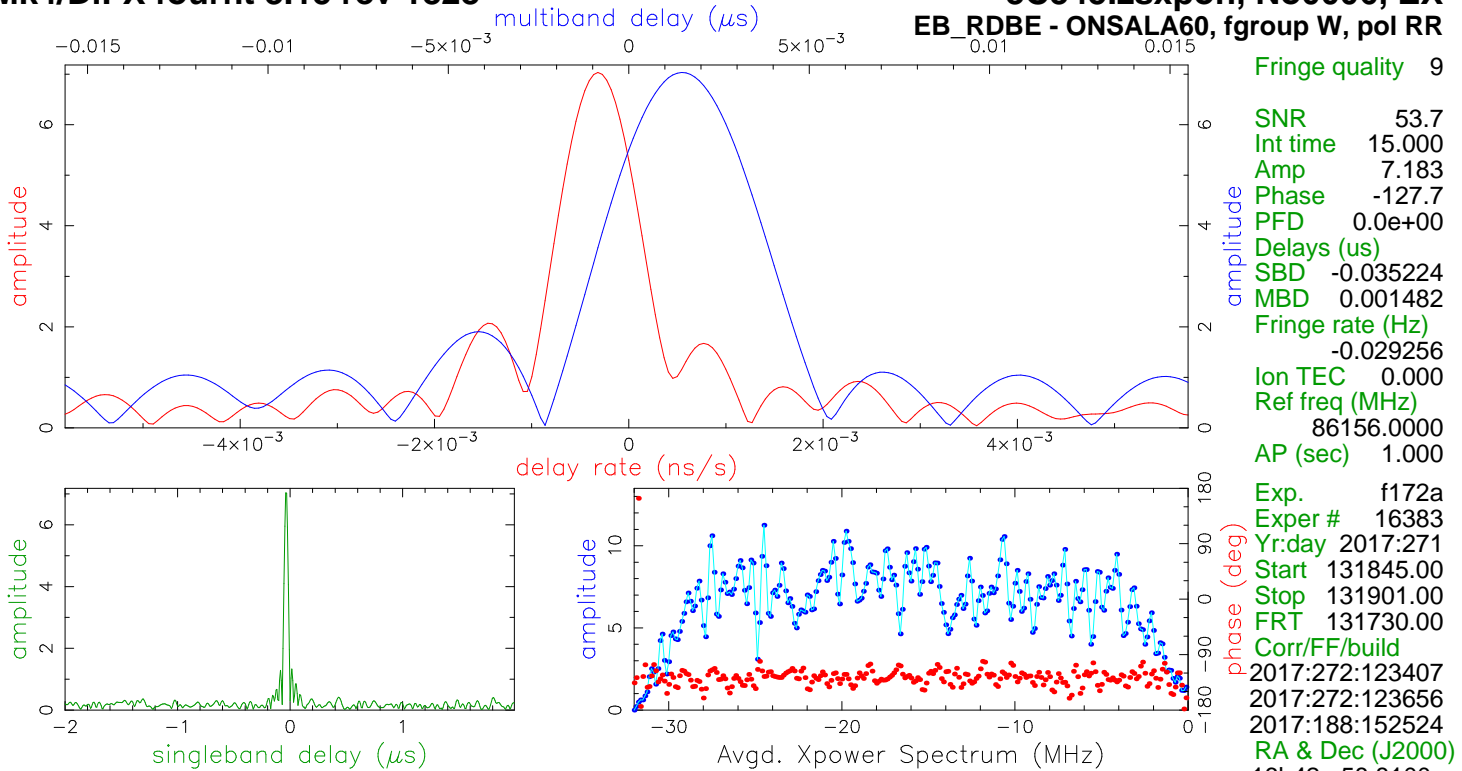
Exp. f172a  
Exper # 16383  
Yr:day 2017:271  
Start 131845.00  
Stop 131901.00  
FRT 131730.00  
Corr/FF/build  
2017:272:123407  
2017:272:123656  
2017:188:152524  
RA & Dec (J2000)  
16h42m58.8100s  
+39°48'36.994"

Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



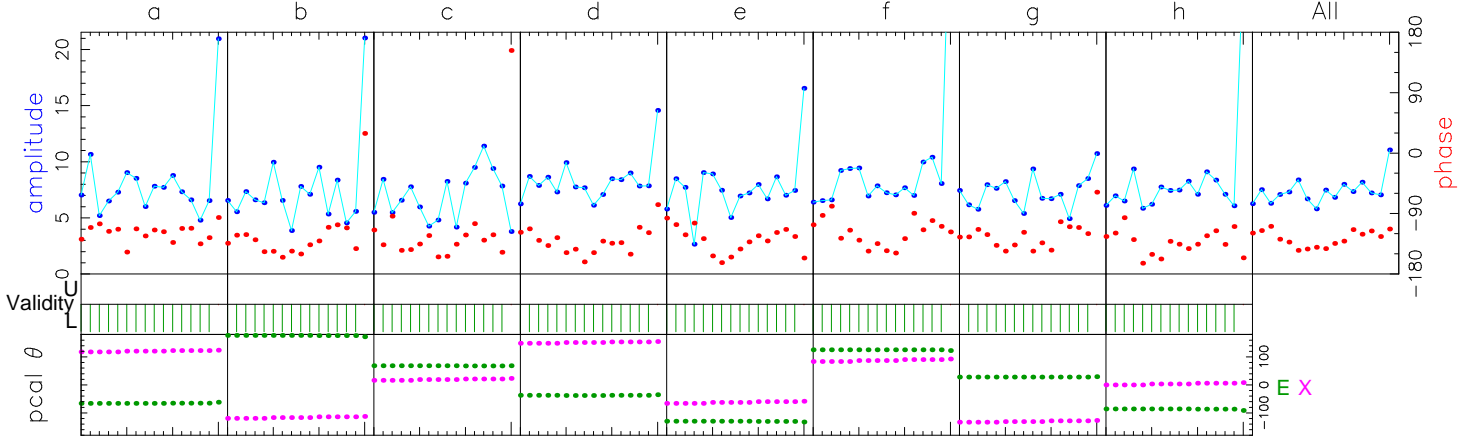
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-64.9	-61.4	-65.9	-76.0	-66.0	-55.7	-66.2	-66.8	Phase	-65.6
7.1	6.6	6.6	7.6	6.5	6.3	6.5	6.6	Ampl.	6.7
245.7	245.8	245.7	245.9	246.1	246.0	245.7	245.5	Sbd box	245.8
U/L 0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
E 826.4	824.4	823.4	821.0	822.7	823.2	822.6	825.7	PC L delays (ns)	
X 49.7	49.2	47.3	47.7	48.7	48.4	48.7	48.1	PC L delays (ns)	
E:X 63:-161	-80:-14	139:150	13:-34	-109:134	120:-63	-9:100	-152:-97	PC phase	
E:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
E 5	5	5	5	5	5	4	4	PC amp	
X 40	42	44	40	37	37	38	37	Chan ids	
E W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
X W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
								Tracks	
Group delay (usec)(model)	-1.15868592168E+02		Apriori delay (usec)	-1.15869586303E+02		Resid mbdelay (usec)	9.94135E-04	+/-	4.3E-05
Sband delay (usec)	-1.15957163303E+02		Apriori clock (usec)	2.0960001E+01		Resid sbdelay (usec)	-8.75770E-02	+/-	3.4E-04
Phase delay (usec)	-1.15869588419E+02		Apriori clockrate (us/s)	0.0000000E+00		Resid phdelay (usec)	-2.11578E-06	+/-	7.3E-08
Delay rate (us/s)	1.16381433166E-01		Apriori rate (us/s)	1.16381770102E-01		Resid rate (us/s)	-3.36935E-07	+/-	8.0E-09
Total phase (deg)		-93.5	Apriori accel (us/s/s)	-4.37314156977E-06		Resid phase (deg)	-65.6	+/-	2.3

RMS Theor. Amplitude 6.722 +/- 0.134 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5  
 ph/seg (deg) 11.6 4.6 Search (64X32) 6.675 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000  
 amp/seg (%) 10.2 8.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016  
 ph/frq (deg) 6.1 3.2 Inc. seg. avg. 6.814 Sample rate(MSamp/s): 64 dr window (ns/s) -0.006 0.006  
 amp/frq (%) 5.9 5.6 Inc. frq. avg. 6.718 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00



Fringe quality 9  
 SNR 53.7  
 Int time 15.000  
 Amp 7.183  
 Phase -127.7  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.035224  
 MBD 0.001482  
 Fringe rate (Hz)  
 -0.029256  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86156.000  
 AP (sec) 1.000  
 Exp. f172a  
 Exper # 16383  
 Yr:day 2017:271  
 Start 131845.00  
 Stop 131901.00  
 FRT 131730.00  
 Corr/FF/build  
 2017:272:123407  
 2017:272:123656  
 2017:188:152524  
 RA & Dec (J2000)  
 16h42m58.8100s  
 +39°48'36.994"

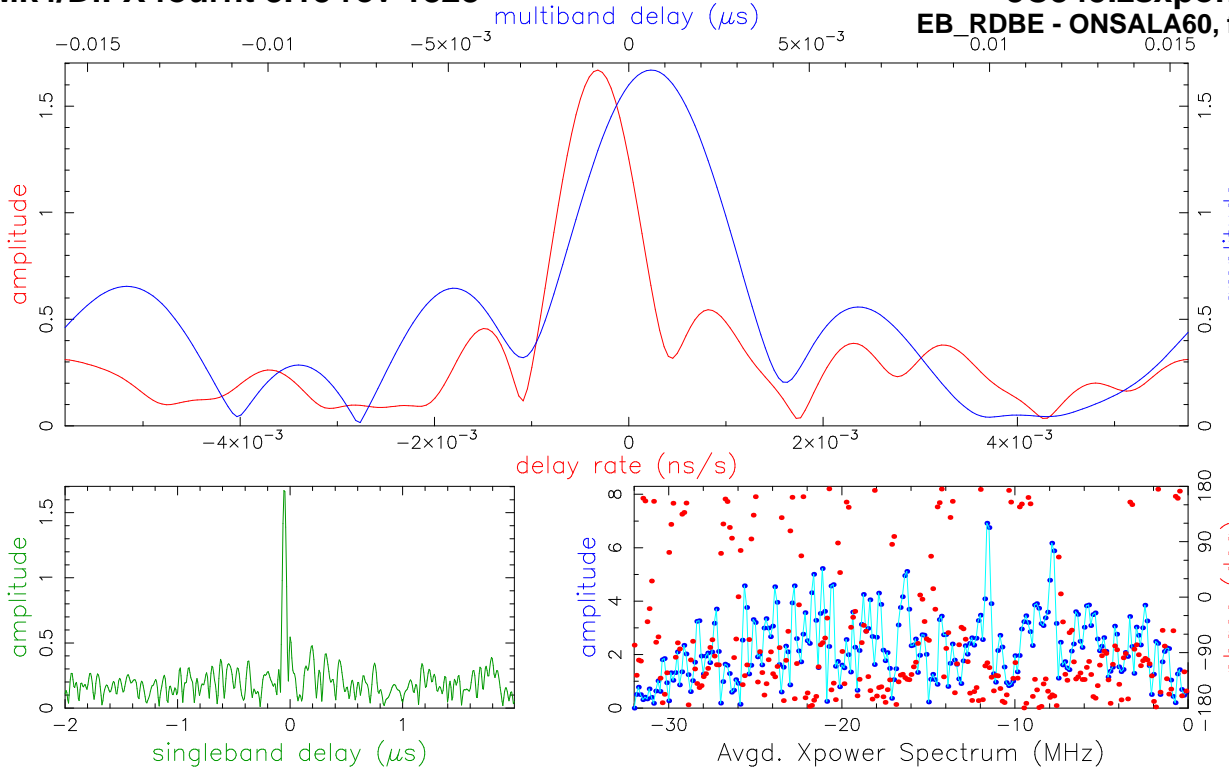
Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-120.4	-132.9	-130.8	-133.7	-128.3	-117.9	-126.7	-131.2	Phase	-127.7
	7.2	6.5	6.9	7.7	6.8	7.6	6.9	7.1	Ampl.	7.1
	252.3	252.4	252.6	252.6	252.5	252.3	252.5	252.7	Sbd box	252.5
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
E	808.1	805.1	804.7	803.7	804.0	804.6	804.5	807.3	PC R delays (ns)	
X	84.4	84.0	81.7	81.5	82.1	81.5	83.2	81.9	PC R delays (ns)	
E:X	-65:121	175:-116	68:20	-37:152	-131:-62	125:89	29:-130	-87:4	PC phase	
E:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
E	5	5	6	6	6	6	6	6	PC amp	
X	54	55	62	60	52	48	59	58	Chan ids	
E	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(model)	-1.15868104480E+02		Apriori delay (usec)		-1.15869586303E+02		Resid mbdelay (usec)		1.48182E-03	+/- 4.0E-05
Sband delay (usec)	-1.15904810303E+02		Apriori clock (usec)		2.0960001E+01		Resid sbdelay (usec)		-3.52240E-02	+/- 3.2E-04
Phase delay (usec)	-1.15869590419E+02		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-4.11572E-06	+/- 6.9E-08
Delay rate (us/s)	1.16381430532E-01		Apriori rate (us/s)		1.16381770102E-01		Resid rate (us/s)		-3.39570E-07	+/- 7.4E-09
Total phase (deg)			Apriori accel (us/s/s)		-4.37314156977E-06		Resid phase (deg)		-127.7	+/- 2.1

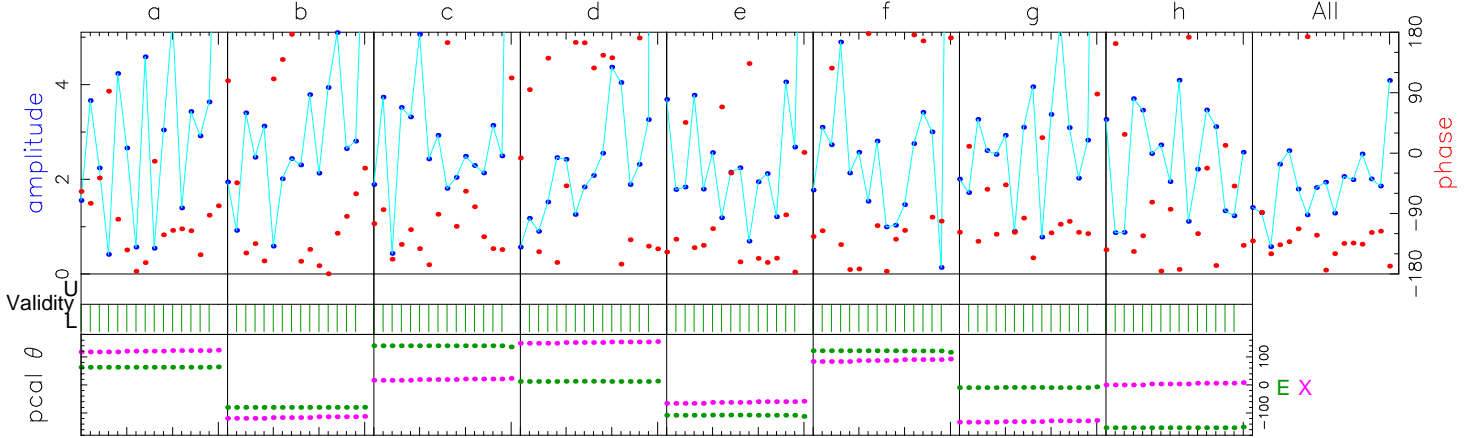
RMS Theor. Amplitude 7.183 +/- 0.134 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5  
 ph/seg (deg) 11.3 4.3 Search (64X32) 6.851 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000  
 amp/seg (%) 9.9 7.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016  
 ph/frq (deg) 6.3 3.0 Inc. seg. avg. 7.163 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite dr window (ns/s) -0.006 0.006  
 amp/frq (%) 5.4 5.3 Inc. frq. avg. 7.067 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

E: az 97.3 el 61.5 pa -55.2 X: az 115.4 el 62.4 pa -39.0 u,v (fr/asec) -875.878 -756.831 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/f172a/1234/No0006/EX.zsxph Output file: /Exps/f172a/1234/No0006/EX.W.14.zsxph



Fringe quality 9  
 Error code H  
 SNR 12.7  
 Int time 15.000  
 Amp 1.703  
 Phase -133.4  
 PFD 6.2e-30  
 Delays (us)  
 SBD -0.051006  
 MBD 0.000606  
 Fringe rate (Hz)  
 -0.028594  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86156.000  
 AP (sec) 1.000  
 Exp. f172a  
 Exper # 16383  
 Yr:day 2017:271  
 Start 131845.00  
 Stop 131901.00  
 FRT 131730.00  
 Corr/FF/build  
 2017:272:123407  
 2017:272:123656  
 2017:188:152524  
 RA & Dec (J2000)  
 16h42m58.8100s  
 +39°48'36.994"

Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec

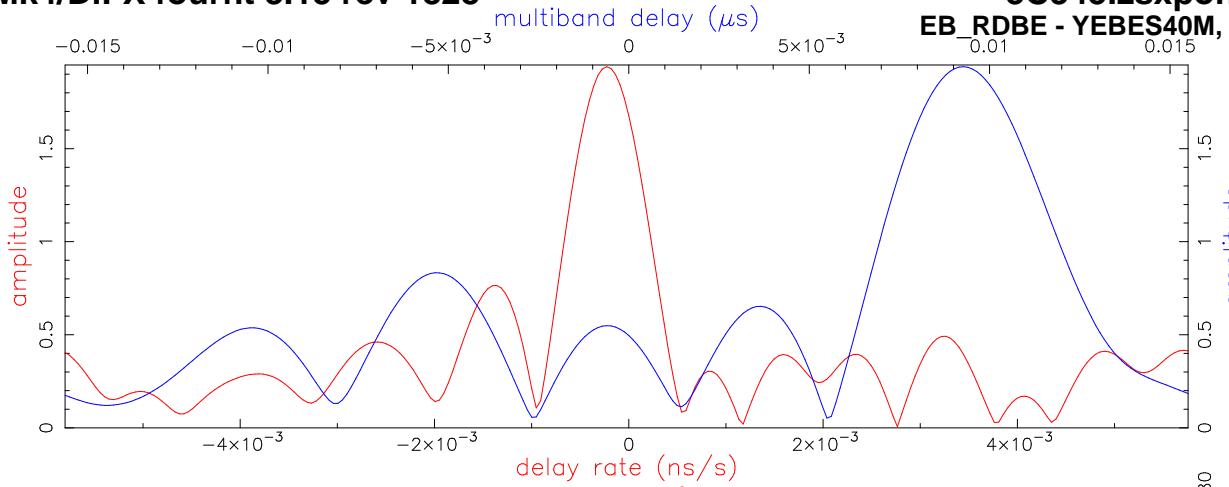


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-112.1	-148.9	-121.2	177.7	-138.2	-151.1	-106.2	-130.4	Phase	-133.4
	2.2	1.9	2.2	1.5	1.4	1.8	2.1	1.4	Ampl.	1.8
	250.3	250.7	250.9	250.3	250.0	250.2	250.7	249.2	Sbd box	250.5
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
E	826.4	824.4	823.4	821.0	822.7	823.2	822.6	825.7	PC L delays (ns)	
X	84.4	84.0	81.7	81.5	82.1	81.5	83.2	81.9	PC R delays (ns)	
E:X	63:121	-80:-116	139:20	13:152	-109:-62	120:89	-9:-130	-152:4	PC phase	
E:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
E	5	5	5	5	5	5	4	4	PC amp	
X	54	55	62	60	52	48	59	58	Chan ids	
E	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(model)	-1.15868980105E+02		Apriori delay (usec)		-1.15869586303E+02		Resid mbdelay (usec)		6.06197E-04	+/- 1.7E-04
Sband delay (usec)	-1.15920592803E+02		Apriori clock (usec)		2.0960001E+01		Resid sbdelay (usec)		-5.10065E-02	+/- 1.4E-03
Phase delay (usec)	-1.15869590603E+02		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-4.29971E-06	+/- 2.9E-07
Delay rate (us/s)	1.16381438215E-01		Apriori rate (us/s)		1.16381770102E-01		Resid rate (us/s)		-3.31886E-07	+/- 3.1E-08
Total phase (deg)			Apriori accel (us/s/s)		-4.37314156977E-06		Resid phase (deg)		-133.4	+/- 9.0

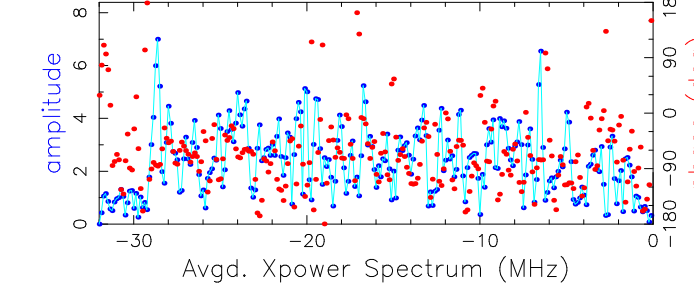
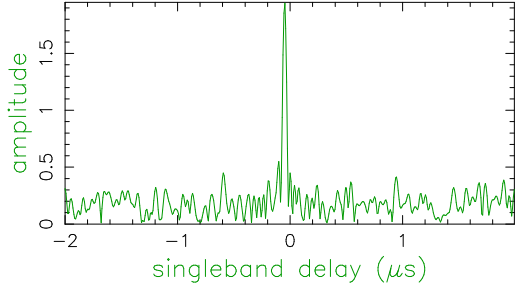
RMS Theor. Amplitude 1.703 +/- 0.134  
 ph/seg (deg) 23.4 18.0 Search (64X32) 1.636 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5  
 amp/seg (%) 31.5 31.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000  
 ph/frq (deg) 26.8 12.7 Inc. seg. avg. 1.706 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016  
 amp/frq (%) 20.0 22.2 Inc. frq. avg. 1.767 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite dr window (ns/s) -0.006 0.006  
 E: az 97.3 el 61.5 pa -55.2 X: az 115.4 el 62.4 pa -39.0 u,v (fr/asec) -875.878 -756.831 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/f172a/1234/No0006/EX.zsxph Output file: /Exps/f172a/1234/No0006/EX.W.15.zsxph



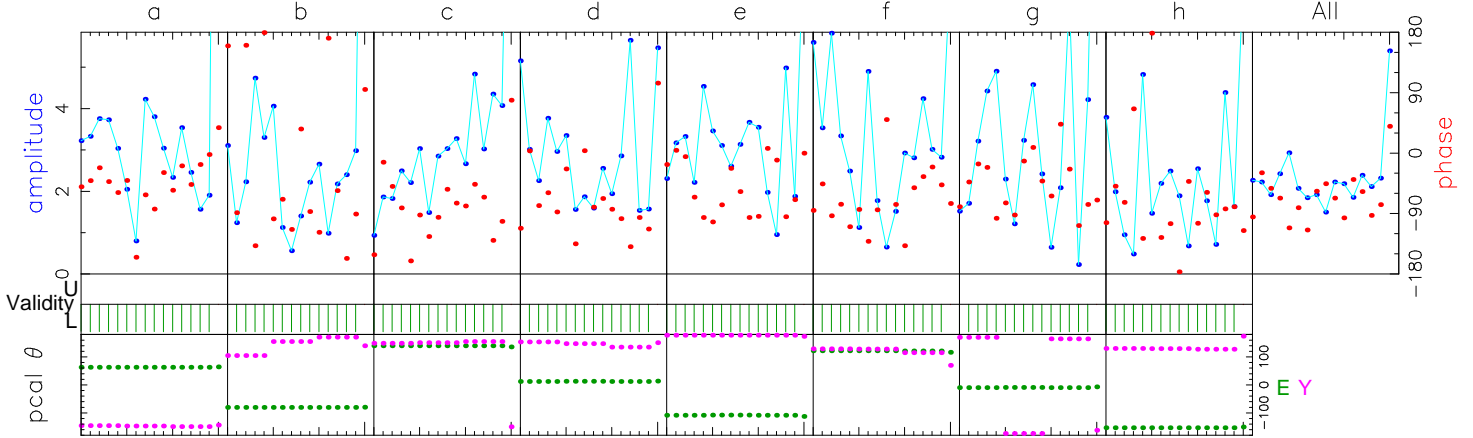




Fringe quality 8  
 Error code H  
 SNR 14.6  
 Int time 14.977  
 Amp 1.950  
 Phase -73.4  
 PFD 7.2e-41  
 Delays (us)  
 SBD -0.048642  
 MBD 0.009289  
 Fringe rate (Hz)  
 -0.019510  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86156.000  
 AP (sec) 1.000  
 Exp. f172a  
 Exper # 16383  
 Yr:day 2017:271  
 Start 131845.00  
 Stop 131901.00  
 FRT 131730.00  
 Corr/FF/build  
 2017:272:123407  
 2017:272:123657  
 2017:188:152524  
 RA & Dec (J2000)  
 16h42m58.8100s  
 +39°48'36.994"



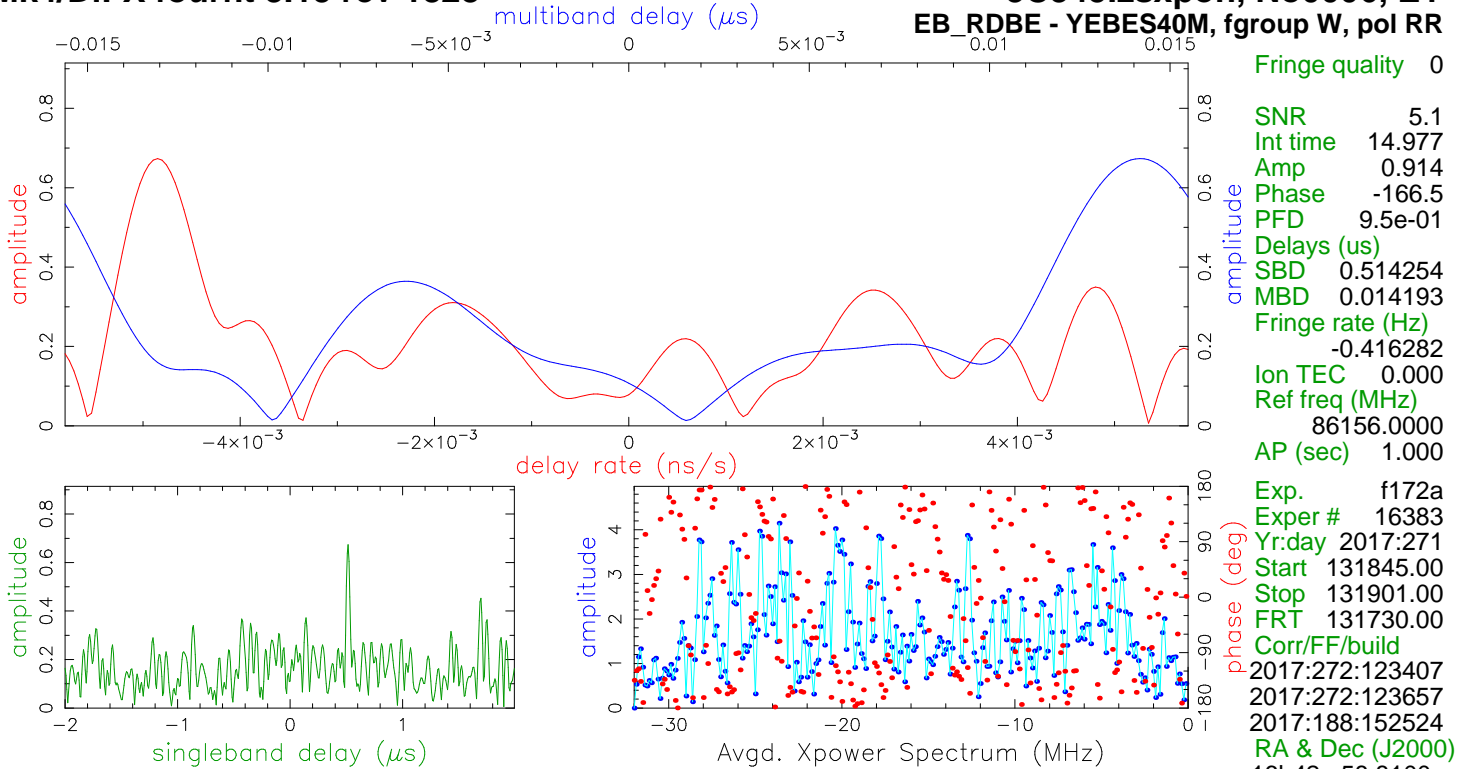
Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-43.4	-129.4	-84.2	-83.5	-63.1	-77.4	-38.3	-103.0	Phase	-73.4
	2.6	1.5	2.3	2.0	2.5	2.3	1.7	1.7	Ampl.	2.1
	250.8	250.3	250.9	250.1	251.1	250.8	251.3	251.7	Sbd box	250.8
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
E	826.4	824.4	823.4	821.0	822.7	823.2	822.6	825.7	PC L delays (ns)	
Y	349.0	660.6	552.4	250.3	438.6	546.2	721.5	607.6	PC L delays (ns)	
E:Y	63:-146	-80:141	139:-176	13:148	-109:176	120:87	-9:-172	-152:154	PC phase	
E:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
E	5	5	5	5	5	5	4	4	PC amp	
Y	1	0	0	0	1	0	0	0		
E	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)(model)	1.51298447357E+03		Apriori delay (usec)		1.51297518432E+03		Resid mbdelay (usec)		9.28926E-03	+/- 1.5E-04
Sband delay (usec)	1.51292654232E+03		Apriori clock (usec)		2.3060001E+01		Resid sbdelay (usec)		-4.86420E-02	+/- 1.2E-03
Phase delay (usec)	1.51297518195E+03		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-2.36569E-06	+/- 2.5E-07
Delay rate (us/s)	-2.06438505781E-01		Apriori rate (us/s)		-2.06438279331E-01		Resid rate (us/s)		-2.26450E-07	+/- 2.7E-08
Total phase (deg)	279.4		Apriori accel (us/s/s)		9.00339276088E-07		Resid phase (deg)		-73.4	+/- 7.9

RMS Theor. Amplitude 1.950 +/- 0.134 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5  
 ph/seg (deg) 25.5 15.7 Search (64X32) 1.888 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000  
 amp/seg (%) 20.1 27.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016  
 ph/frq (deg) 32.9 11.1 Inc. seg. avg. 2.072 Sample rate(MSamp/s): 64 dr window (ns/s) -0.006 0.006  
 amp/frq (%) 21.7 19.4 Inc. frq. avg. 2.122 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

E: az 97.3 el 61.5 pa -55.2 Y: az 75.1 el 53.8 pa -73.2 u,v (fr/asec) 1541.942 872.793 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/f172a/1234/No0006/EY..zcxph Output file: /Exps/f172a/1234/No0006/EY.W.17.zcxph



Fringe quality 0

SNR 5.1

Int time 14.977

Amp 0.914

Phase -166.5

PFD 9.5e-01

Delays (us)

SBD 0.514254

MBD 0.014193

Fringe rate (Hz)

-0.416282

Ion TEC 0.000

Ref freq (MHz)

86156.0000

AP (sec) 1.000

Exp. f172a

Exper # 16383

Yr:day 2017:271

Start 131845.00

Stop 131901.00

FRT 131730.00

Corr/FF/build

2017:272:123407

2017:272:123657

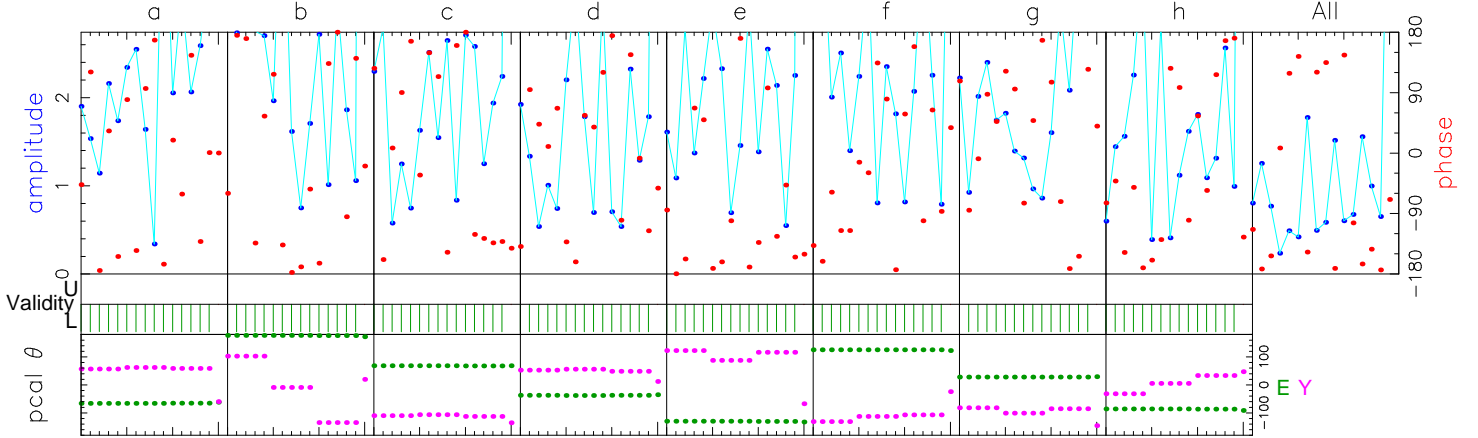
2017:188:152524

RA & Dec (J2000)

16h42m58.8100s

+39°48'36.994"

Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-161.3	-161.8	-168.0	161.6	-166.8	-116.8	125.3	-146.7	Phase	-166.5
	0.3	1.8	1.5	0.6	1.5	0.9	0.8	0.8	Ampl.	0.9
	268.7	473.8	378.8	137.5	145.2	93.1	431.0	101.6	Sbd box	322.8
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
E	808.1	805.1	804.7	803.7	804.0	804.6	804.5	807.3	PC R delays (ns)	
Y	627.8	264.4	676.3	615.1	610.4	483.0	399.7	214.3	PC R delays (ns)	
E:Y	-65:-24	175:22	68:-124	-37:37	-131:-62	125:-45	29:-121	-87:35	PC phase	
E:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
E	5	5	6	6	6	6	6	6	PC amp	
Y	0	0	0	0	0	0	0	0		
E	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(model)	1.51298937745E+03		Apriori delay (usec)		1.51297518432E+03		Resid mbdelay (usec)		1.41931E-02	+/- 4.3E-04
Sband delay (usec)	1.51348943832E+03		Apriori clock (usec)		2.3060001E+01		Resid sbdelay (usec)		5.14254E-01	+/- 3.4E-03
Phase delay (usec)	1.51297517895E+03		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-5.36752E-06	+/- 7.3E-07
Delay rate (us/s)	-2.06443111055E-01		Apriori rate (us/s)		-2.06438279331E-01		Resid rate (us/s)		-4.83172E-06	+/- 7.9E-08
Total phase (deg)	186.3		Apriori accel (us/s/s)		9.00339276088E-07		Resid phase (deg)		-166.5	+/- 22.7

RMS Theor. Amplitude 0.914 +/- 0.181

ph/seg (deg) 61.9 45.4 Search (64X32) 0.661

amp/seg (%) 76.0 79.2 Interp. 0.000

ph/frq (deg) 37.8 32.1 Inc. seg. avg. 0.889

amp/frq (%) 52.1 56.0 Inc. frq. avg. 0.898

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5

Pcal rate: 0.000E+00, 0.000E+00 (us/s)

Bits/sample: 2x2 SampCntNorm: disabled

Sample rate(MSamp/s): 64

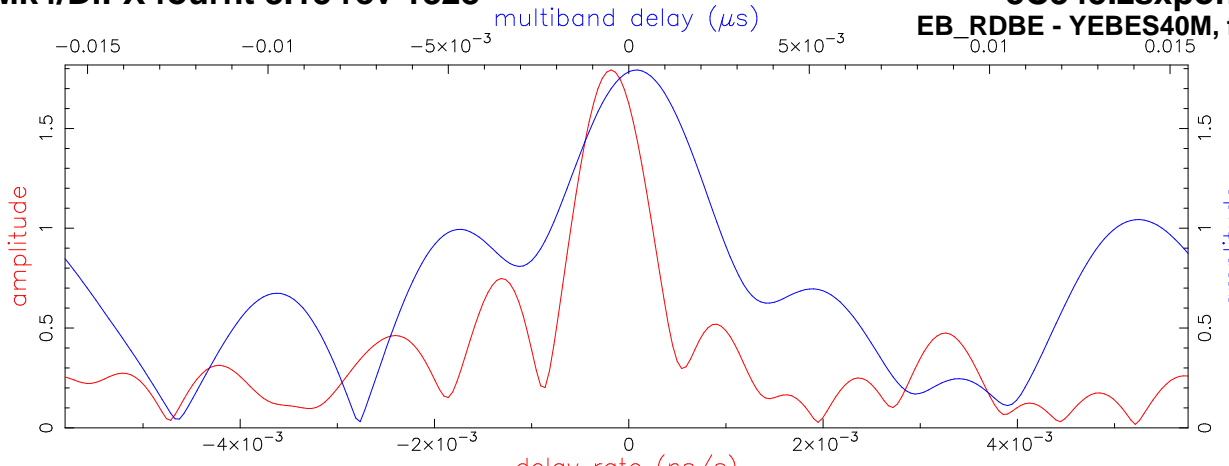
Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite

sb window (us) -2.000 2.000

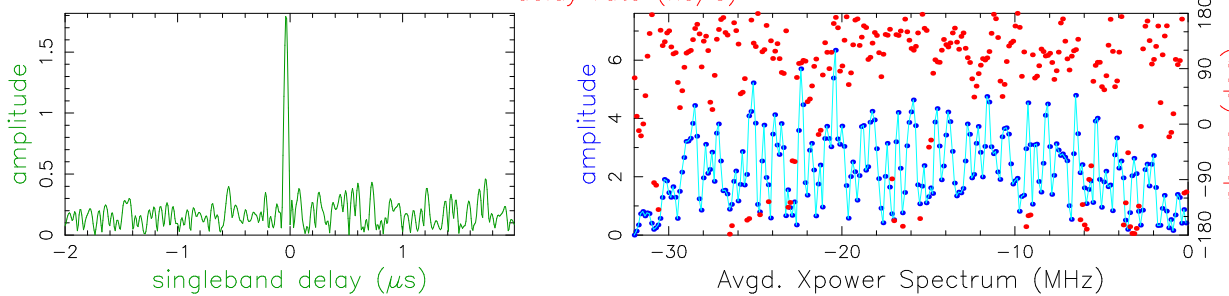
mb window (us) -0.016 0.016

dr window (ns/s) -0.006 0.006

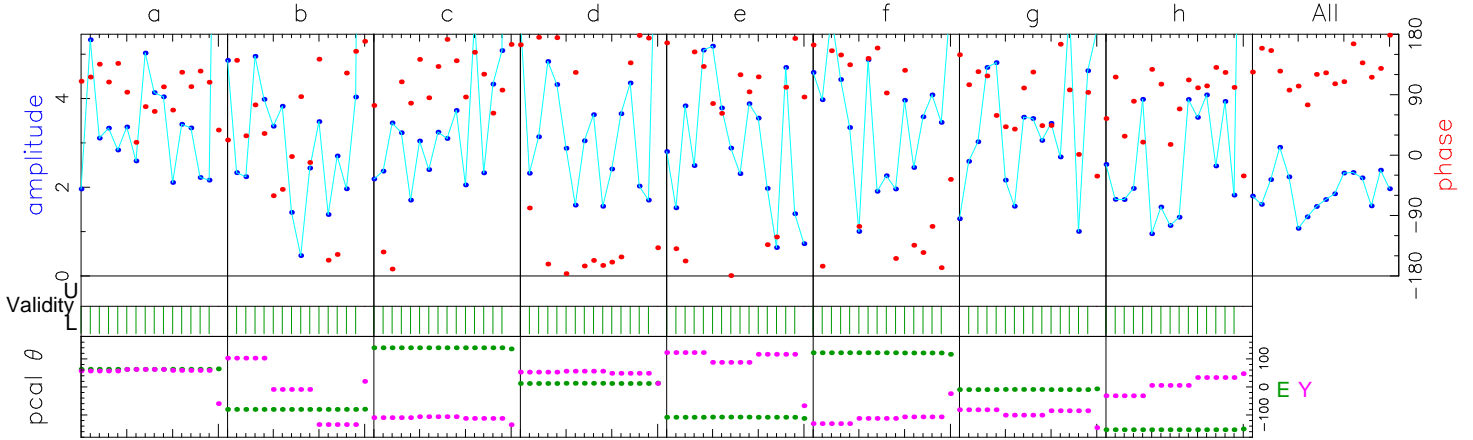
ion window (TEC) 0.00 0.00



Fringe quality 9  
Error code H  
SNR 13.6  
Int time 14.977  
Amp 1.818  
Phase 124.9  
PFD 7.2e-35  
Delays (us)  
SBD -0.035733  
MBD 0.000196  
Fringe rate (Hz)  
-0.016520  
Ion TEC 0.000  
Ref freq (MHz)  
86156.0000  
AP (sec) 1.000  
Exp. f172a  
Exper # 16383  
Yr:day 2017:271  
Start 131845.00  
Stop 131901.00  
FRT 131730.00  
Corr/FF/build  
2017:272:123407  
2017:272:123657  
2017:188:152524  
RA & Dec (J2000)  
16h42m58.8100s  
+39°48'36.994"

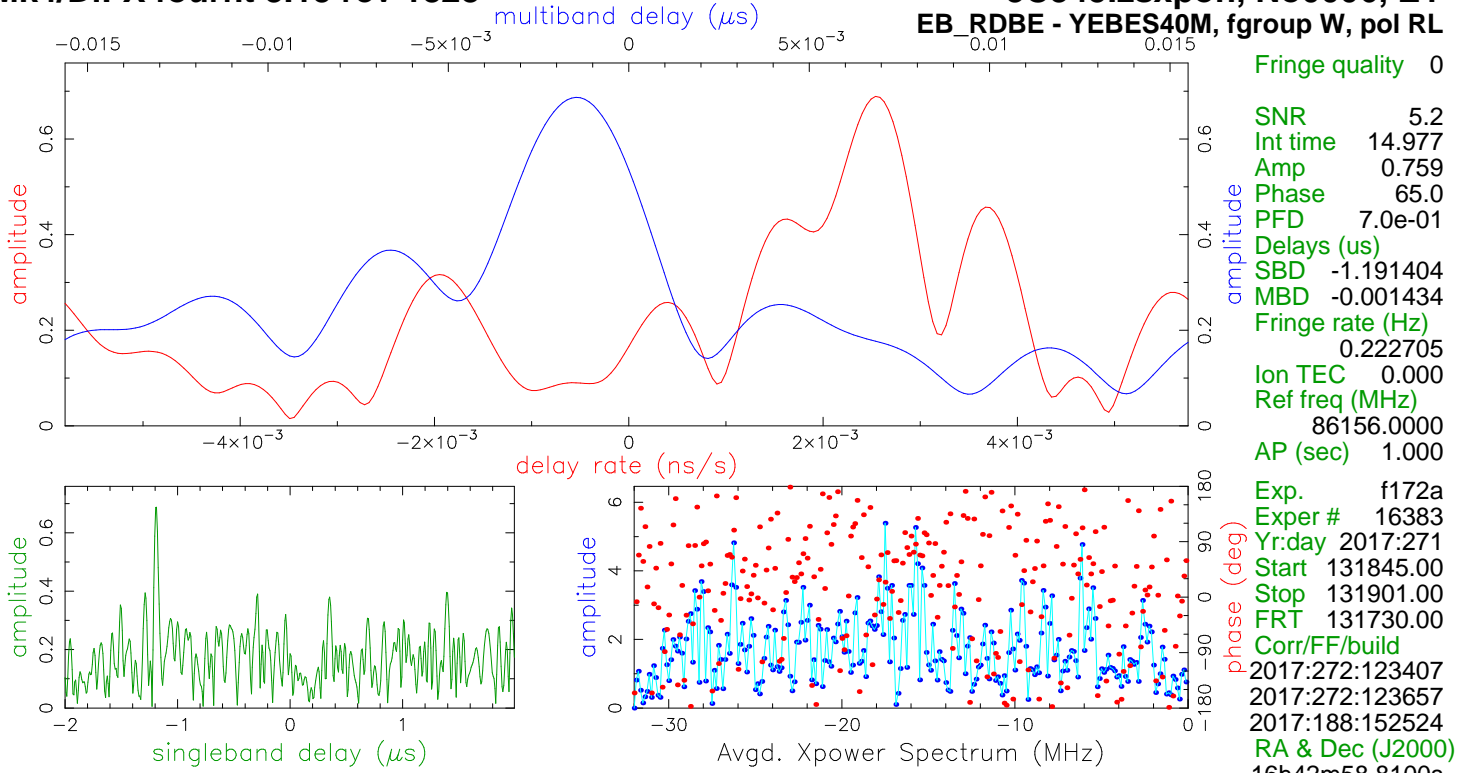


Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	99.5	57.3	124.9	-176.4	130.6	171.3	91.1	90.0	Phase	124.9
	2.9	0.7	2.4	2.8	2.0	2.6	2.6	2.0	Ampl.	2.2
	252.5	50.5	252.6	252.0	253.1	252.3	252.6	252.3	Sbd box	252.4
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
E	826.4	824.4	823.4	821.0	822.7	823.2	822.6	825.7	PC L delays (ns)	
Y	627.8	264.4	676.3	615.1	610.4	483.0	399.7	214.3	PC R delays (ns)	
E:Y	63:-24	-80:22	139:-124	13:37	-109:-62	120:-45	-9:-121	-152:35	PC phase	
E:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
E	5	5	5	5	5	5	4	4	PC amp	
Y	0	0	0	0	0	0	0	0		
E	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(model)	1.51297537995E+03		Apriori delay (usec)		1.51297518432E+03		Resid mbdelay (usec)		1.95630E-04	+/- 1.6E-04
Sband delay (usec)	1.51293945182E+03		Apriori clock (usec)		2.3060001E+01		Resid sbdelay (usec)		-3.57325E-02	+/- 1.3E-03
Phase delay (usec)	1.51297518834E+03		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		4.02791E-06	+/- 2.7E-07
Delay rate (us/s)	-2.06438471077E-01		Apriori rate (us/s)		-2.06438279331E-01		Resid rate (us/s)		-1.91745E-07	+/- 2.9E-08
Total phase (deg)	117.7		Apriori accel (us/s/s)		9.00339276088E-07		Resid phase (deg)		124.9	+/- 8.4

RMS Theor. Amplitude 1.818 +/- 0.134  
 ph/seg (deg) 23.8 16.9 Search (64X32) 1.784 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5  
 amp/seg (%) 26.3 29.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000  
 ph/frq (deg) 46.9 11.9 Inc. seg. avg. 1.863 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016  
 amp/frq (%) 43.2 20.8 Inc. frq. avg. 2.203 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite dr window (ns/s) -0.006 0.006  
 E: az 97.3 el 61.5 pa -55.2 Y: az 75.1 el 53.8 pa -73.2 u,v (fr/asec) 1541.942 872.793 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/f172a/1234/No0006/EY..zxxph Output file: /Exps/f172a/1234/No0006/EY.W.19.zxxph



Fringe quality 0

SNR 5.2

Int time 14.977

Amp 0.759

Phase 65.0

PFD 7.0e-01

Delays (us)

SBD -1.191404

MBD -0.001434

Fringe rate (Hz) 0.222705

Ion TEC 0.000

Ref freq (MHz) 86156.0000

AP (sec) 1.000

Exp. f172a

Exper # 16383

Yr:day 2017:271

Start 131845.00

Stop 131901.00

FRT 131730.00

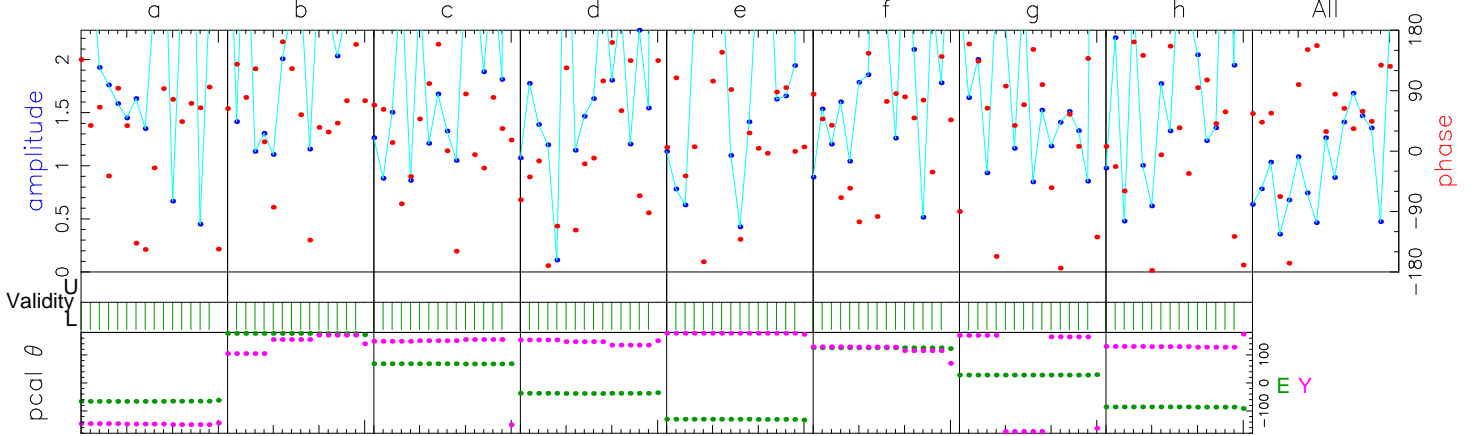
Corr/FF/build 2017:272:123407

2017:272:123657

2017:188:152524

RA & Dec (J2000) 16h42m58.8100s +39°48'36.994"

Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	68.6	78.0	35.6	68.3	57.5	44.1	114.9	51.1	Phase	65.0
	1.4	1.5	1.0	0.1	0.7	0.4	0.6	0.6	Ampl.	0.7
	103.8	103.8	300.5	231.7	65.2	388.2	421.9	174.5	Sbd box	104.5
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
E	808.1	805.1	804.7	803.7	804.0	804.6	804.5	807.3	PC R delays (ns)	
Y	349.0	660.6	552.4	250.3	438.6	546.2	721.5	607.6	PC L delays (ns)	
E:Y	-65:-146	175:141	68:-176	-37:148	-131:176	125:87	29:-172	-87:154	PC phase	
E:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
E	5	5	6	6	6	6	6	6	PC amp	
Y	1	0	0	0	1	0	0	0		
E	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(model)	1.51297375075E+03		Apriori delay (usec)		1.51297518432E+03		Resid mbdelay (usec)		-1.43357E-03	+/- 4.2E-04
Sband delay (usec)	1.51178378082E+03		Apriori clock (usec)		2.3060001E+01		Resid sbdelay (usec)		-1.19140E+00	+/- 3.3E-03
Phase delay (usec)	1.51297518641E+03		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		2.09602E-06	+/- 7.1E-07
Delay rate (us/s)	-2.06435694427E-01		Apriori rate (us/s)		-2.06438279331E-01		Resid rate (us/s)		2.58490E-06	+/- 7.7E-08
Total phase (deg)	57.8		Apriori accel (us/s/s)		9.00339276088E-07		Resid phase (deg)		65.0	+/- 21.9

RMS Theor. Amplitude 0.759 +/- 0.145

ph/seg (deg) 62.7 43.8 Search (64X32) 0.684

amp/seg (%) 68.3 76.5 Interp. 0.000

ph/frq (deg) 26.6 31.0 Inc. seg. avg. 0.805

amp/frq (%) 57.3 54.1 Inc. frq. avg. 0.699

Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5

Pcal rate: 0.000E+00, 0.000E+00 (us/s)

Bits/sample: 2x2

Sample rate(MSamp/s): 64

Data rate(Mb/s): 1024

sb window (us) -2.000 2.000

SampCntNorm: disabled

mb window (us) -0.016 0.016

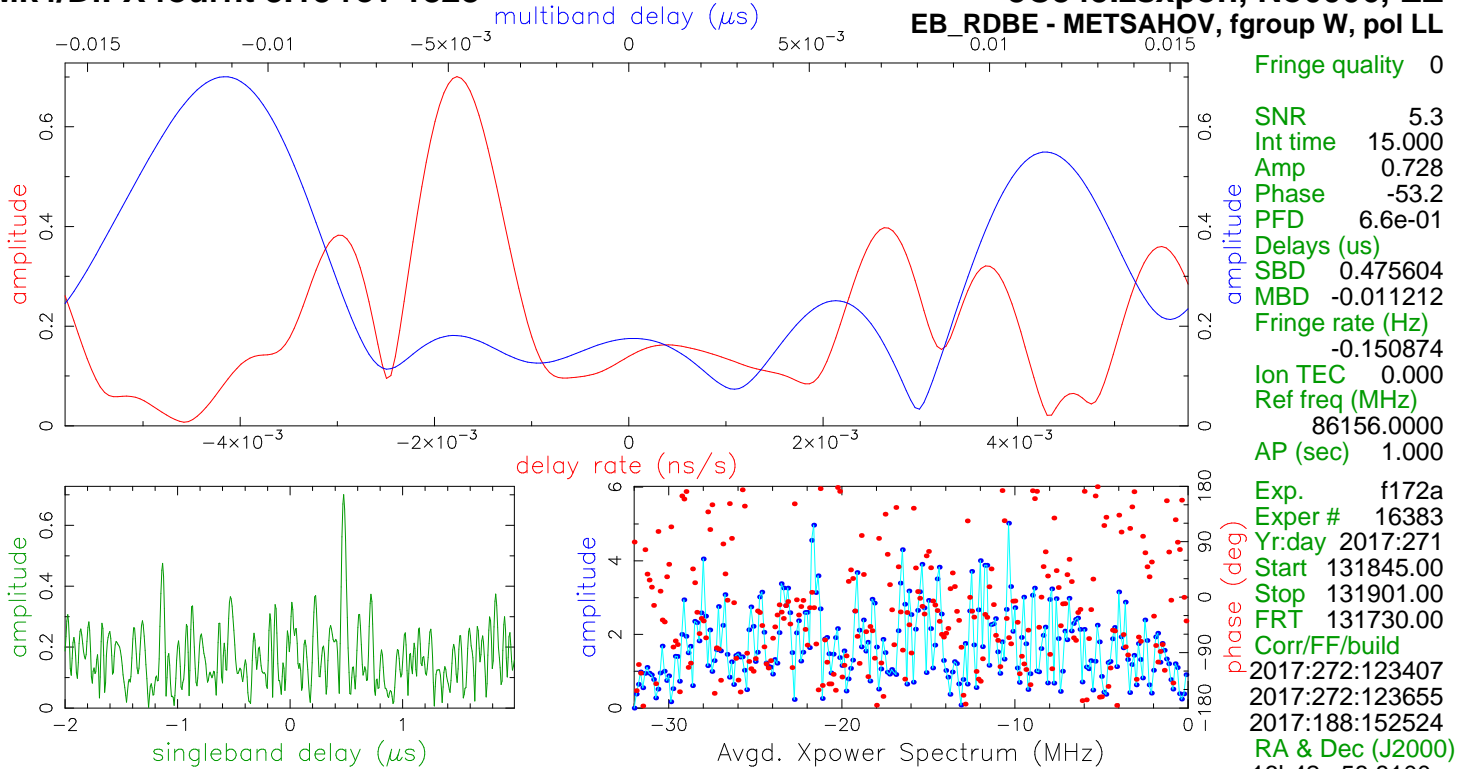
dr window (ns/s) -0.006 0.006

nlags: 256 t\_cohere infinite

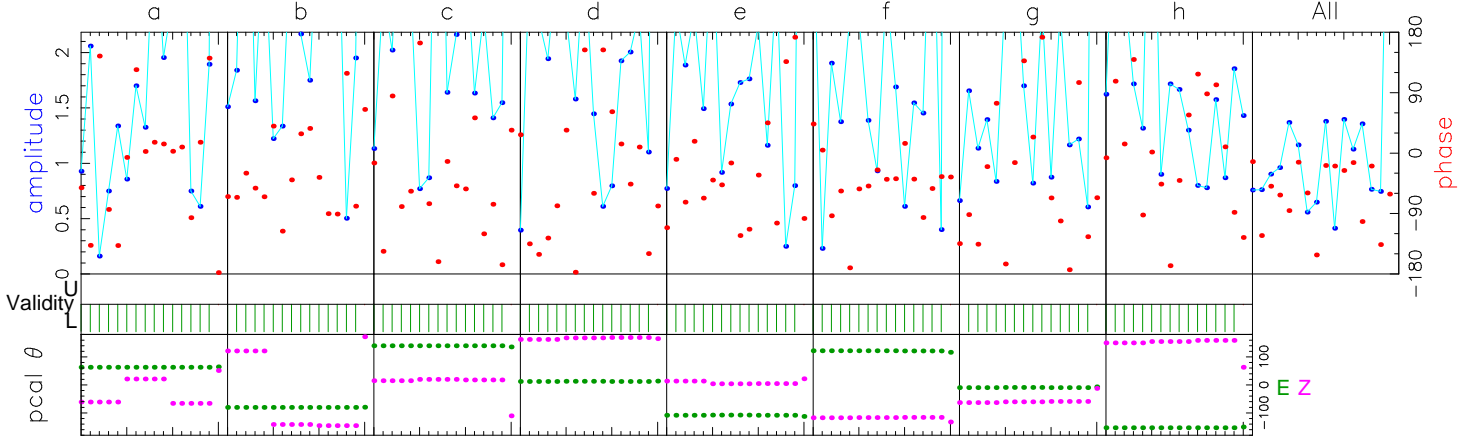
ion window (TEC) 0.00 0.00

E: az 97.3 el 61.5 pa -55.2 Y: az 75.1 el 53.8 pa -73.2 u,v (fr/asec) 1541.942 872.793 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/f172a/1234/No0006/EY..zxxph Output file: /Exps/f172a/1234/No0006/EY.W.20.zxxph

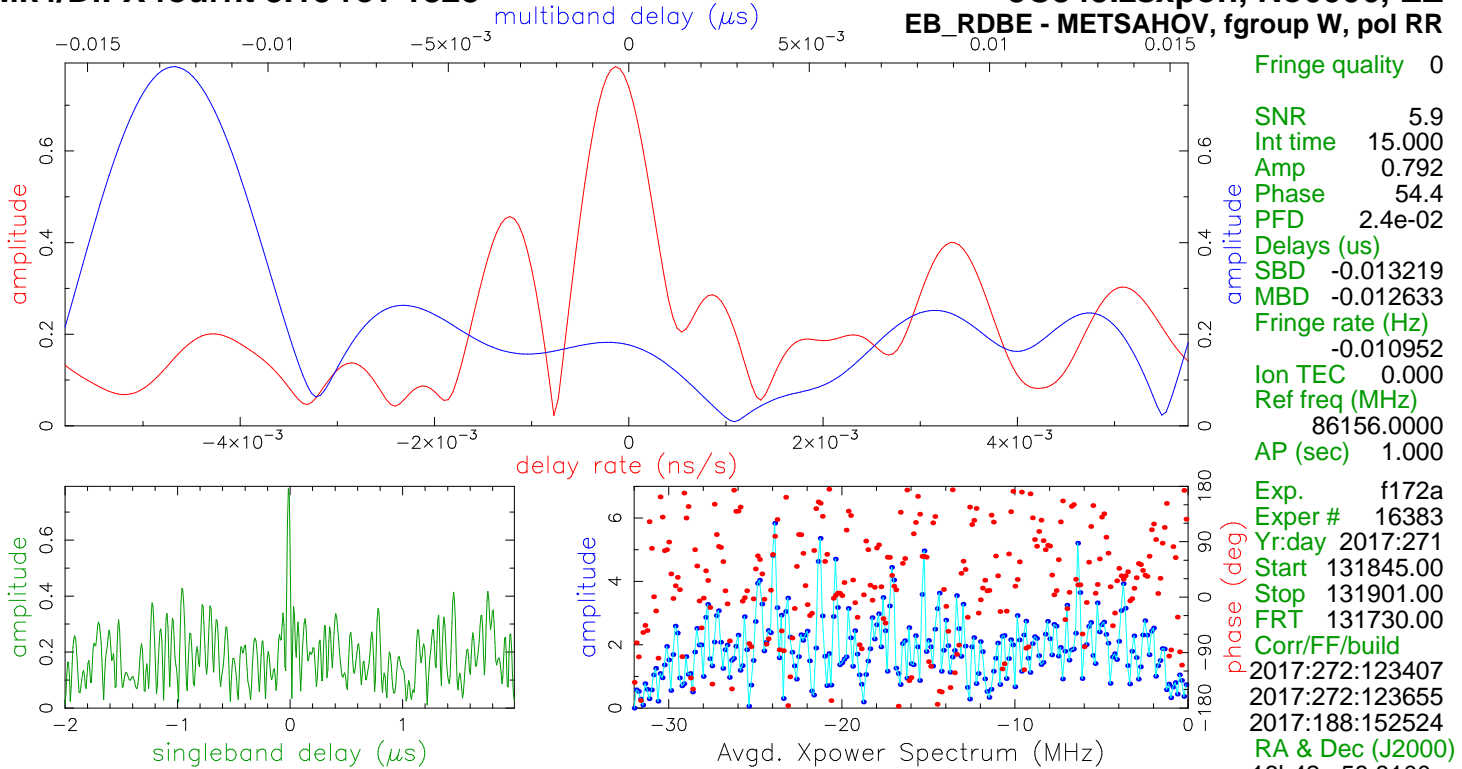


Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



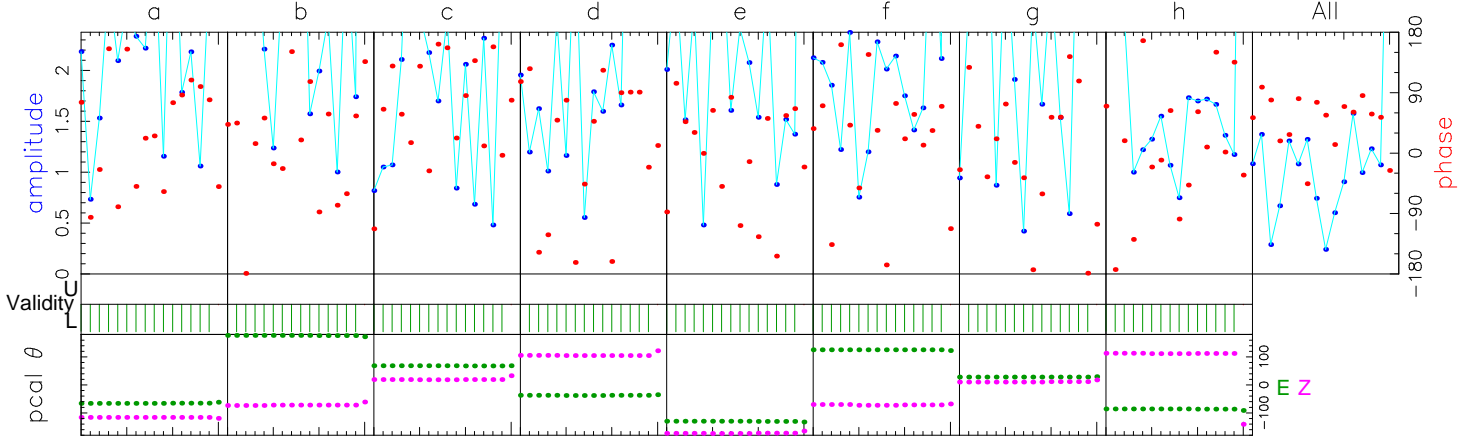
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
2.6	-49.4	-93.4	-100.9	-53.4	-47.1	-128.6	27.5	Phase	-53.2
0.7	1.8	1.0	0.4	1.1	1.2	0.4	0.6	Ampl.	0.8
284.5	318.1	144.6	503.3	158.0	257.8	307.4	112.4	Sbd box	317.9
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
E	826.4	824.4	823.4	821.0	822.7	823.2	822.6	PC L delays (ns)	
Z	204.5	580.9	613.5	246.7	887.7	339.9	529.7	PC L delays (ns)	
E:Z	63:-12	-80:179	139:-19	13:166	-109:12	120:-123	-9:-42	PC phase	
E:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
E	5	5	5	5	5	4	4	PC amp	
Z	2	0	0	0	1	1	0		
E	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	Chan ids	
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(model)	-6.44316011716E+02		Apriori delay (usec)	-6.44304799890E+02		Resid mbdelay (usec)	-1.12118E-02	+/-	4.1E-04
Sband delay (usec)	-6.43829195890E+02		Apriori clock (usec)	2.6880001E+01		Resid sbdelay (usec)	4.75604E-01	+/-	3.3E-03
Phase delay (usec)	-6.44304801605E+02		Apriori clockrate (us/s)	0.0000000E+00		Resid phdelay (usec)	-1.71511E-06	+/-	7.0E-07
Delay rate (us/s)	2.59093814717E-01		Apriori rate (us/s)	2.59095565889E-01		Resid rate (us/s)	-1.75117E-06	+/-	7.6E-08
Total phase (deg)		-175.4	Apriori accel (us/s/s)	-3.37959225912E-06		Resid phase (deg)	-53.2	+/-	21.8

RMS Theor. Amplitude 0.728 +/- 0.139 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5  
 ph/seg (deg) 47.5 43.6 Search (64X32) 0.684 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000  
 amp/seg (%) 61.1 76.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016  
 ph/frq (deg) 56.7 30.9 Inc. seg. avg. 0.772 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite dr window (ns/s) -0.006 0.006  
 amp/frq (%) 66.9 53.9 Inc. frq. avg. 0.802 ion window (TEC) 0.00 0.00



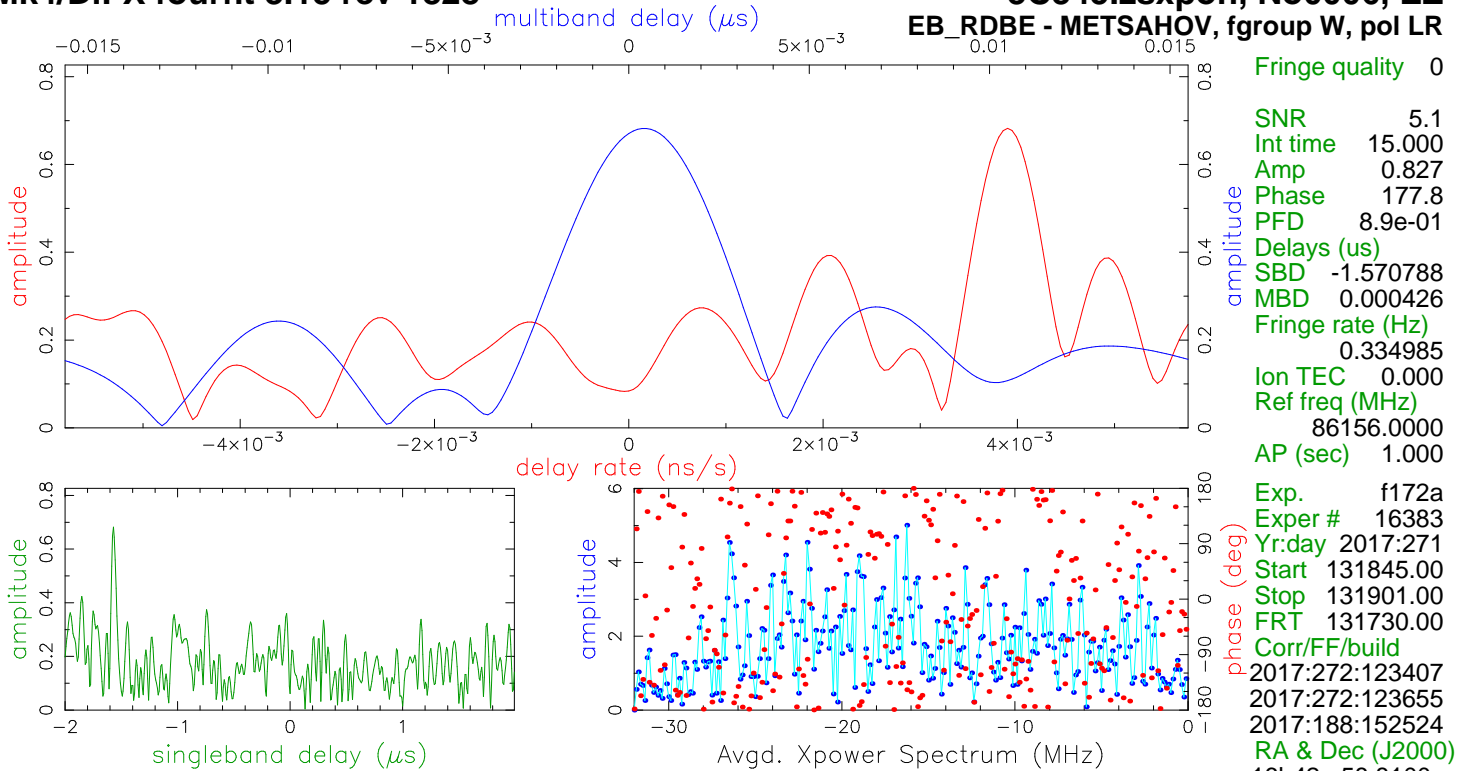
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 SNR 5.9  
 Int time 15.000  
 Amp 0.792  
 Phase 54.4  
 PFD 2.4e-02  
 Delays (us)  
 SBD -0.013219  
 MBD -0.012633  
 Fringe rate (Hz)  
 -0.010952  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86156.000  
 AP (sec) 1.000  
 Exp. f172a  
 Exper # 16383  
 Yr:day 2017:271  
 Start 131845.00  
 Stop 131901.00  
 FRT 131730.00  
 Corr/FF/build  
 2017:272:123407  
 2017:272:123655  
 2017:188:152524  
 RA & Dec (J2000)  
 16h42m58.8100s  
 +39°48'36.994"

Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



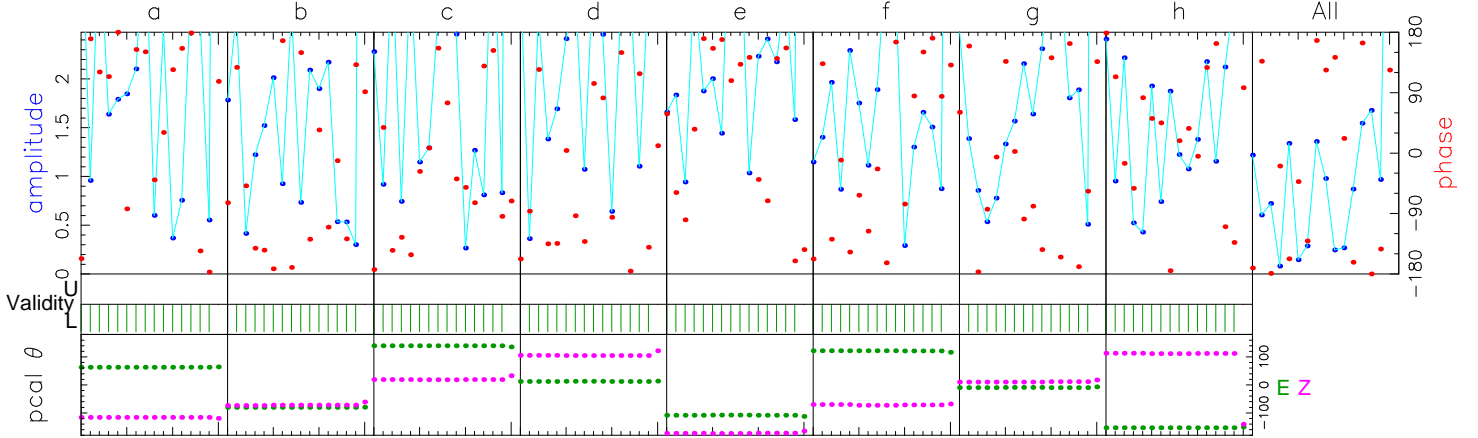
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	Ampl.	0.8
E	808.1	805.1	804.7	803.7	804.0	804.6	804.5	807.3	Sbd box	255.3
Z	304.2	307.7	298.7	298.8	310.7	305.4	308.5	351.1	APs used	
E:Z	-65:-117	175:-70	68:22	-37:110	-131:-171	125:-70	29:12	-87:133	PC R delays (ns)	
E:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
E	5	5	6	6	6	6	6	6	ManI PC	
Z	3	2	1	1	2	1	1	1	PC amp	
E	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(model)	-6.44317432573E+02		Apriori delay (usec)		-6.44304799890E+02		Resid mbdelay (usec)		-1.26327E-02	+/- 3.7E-04
Sband delay (usec)	-6.44318019390E+02		Apriori clock (usec)		2.6880001E+01		Resid sbdelay (usec)		-1.32195E-02	+/- 2.9E-03
Phase delay (usec)	-6.44304798135E+02		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		1.75521E-06	+/- 6.2E-07
Delay rate (us/s)	2.59095438771E-01		Apriori rate (us/s)		2.59095565889E-01		Resid rate (us/s)		-1.27118E-07	+/- 6.7E-08
Total phase (deg)			Apriori accel (us/s/s)		-3.37959225912E-06		Resid phase (deg)		54.4	+/- 19.3
ph/seg (deg)	RMS 35.4	Theor. 38.6	Amplitude 326.6	0.792 +/- 0.134	Pcal mode: MULTITONE, MULTITONE		PC period (AP's) 5, 5		sb window (us)	-2.000 2.000
amp/seg (%)	55.6	67.4	Search (64X32) 0.775	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: disabled		mb window (us)	-0.016 0.016
ph/frq (deg)	25.4	27.3	Interp. 0.000	0.792	Bits/sample: 2x2				dr window (ns/s)	-0.006 0.006
amp/frq (%)	26.4	47.7	Inc. seg. avg. 0.761	0.761	Sample rate(MSamp/s): 64				ion window (TEC)	0.00 0.00
			Inc. frq. avg. 0.761		Data rate(Mb/s): 1024					
					nlags: 256 t_cohere infinite					

E: az 97.3 el 61.5 pa -55.2 Z: az 138.8 el 65.9 pa -24.7 u,v (fr/asec) -1938.242 -853.460 simultaneous interpolator  
 Control file: ../cf\_1234 Input file: /Exps/f172a/1234/No0006/EZ.zsxph Output file: /Exps/f172a/1234/No0006/EZ.W.6.zsxph



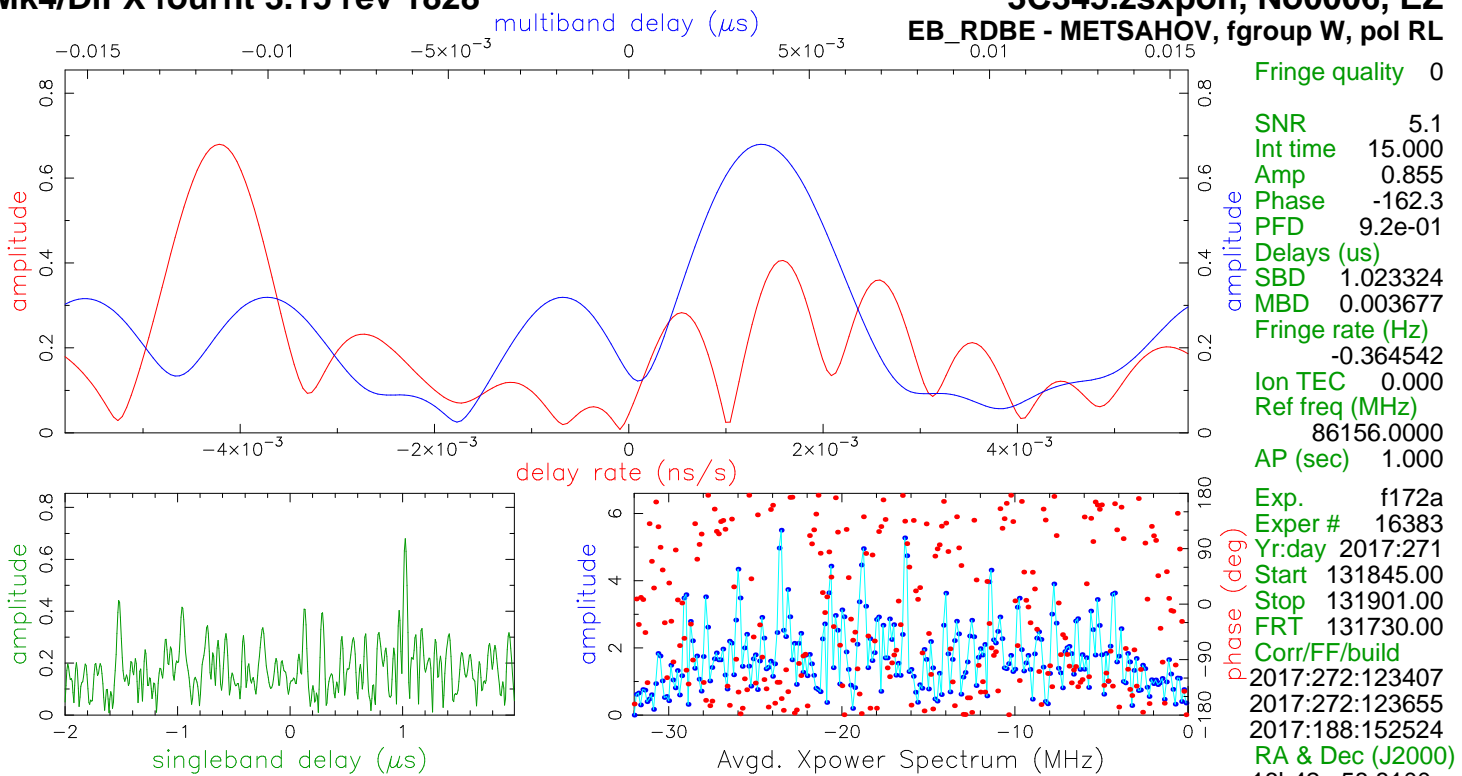
Fringe quality 0  
 SNR 5.1  
 Int time 15.000  
 Amp 0.827  
 Phase 177.8  
 PFD 8.9e-01  
 Delays (us)  
 SBD -1.570788  
 MBD 0.000426  
 Fringe rate (Hz) 0.334985  
 Ion TEC 0.000  
 Ref freq (MHz) 86156.000  
 AP (sec) 1.000  
 Exp. f172a  
 Exper # 16383  
 Yr:day 2017:271  
 Start 131845.00  
 Stop 131901.00  
 FRT 131730.00  
 Corr/FF/build  
 2017:272:123407  
 2017:272:123655  
 2017:188:152524  
 RA & Dec (J2000)  
 16h42m58.8100s  
 +39°48'36.994"

Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec

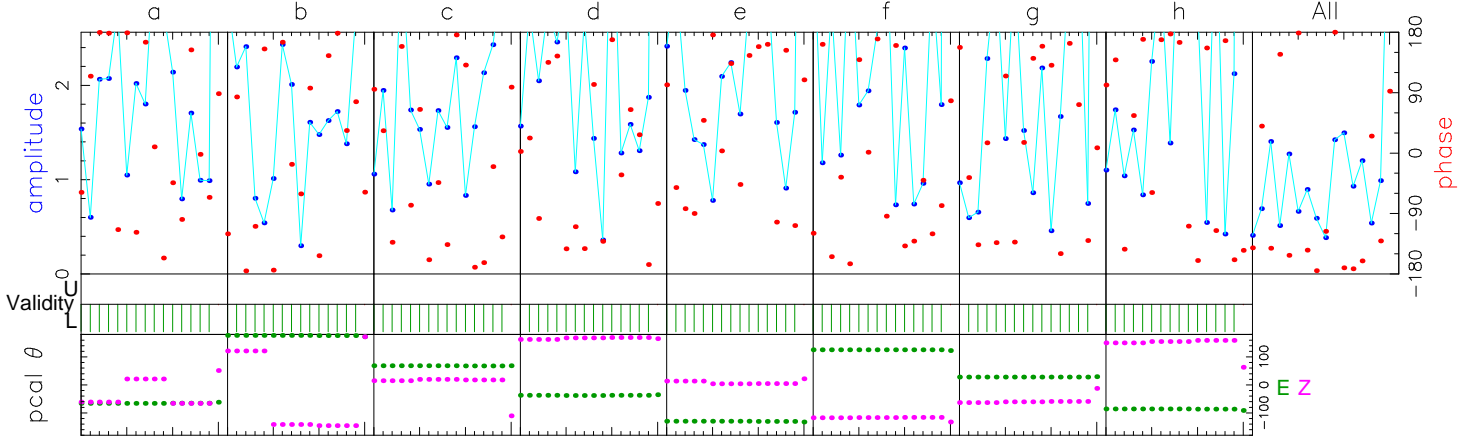


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
165.9	-156.2	-169.3	179.8	140.9	-166.1	-172.0	147.6	Phase	177.8
1.5	0.9	0.7	1.1	0.9	0.8	0.8	0.2	Ampl.	0.8
57.3	201.5	296.5	161.5	222.7	251.1	406.3	186.9	Sbd box	55.9
U/L 0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
E 826.4	824.4	823.4	821.0	822.7	823.2	822.6	825.7	PC L delays (ns)	
Z 304.2	307.7	298.7	298.8	310.7	305.4	308.5	351.1	PC R delays (ns)	
E:Z 63:-117	-80:-70	139:22	13:110	-109:-171	120:-70	-9:12	-152:133	PC phase	
E:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
E 5	5	5	5	5	5	4	4	PC amp	
Z 3	2	1	1	2	1	1	1		
E W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(model)	-6.44304373494E+02		Apriori delay (usec)	-6.44304799890E+02	Resid mbdelay (usec)	4.26396E-04	+/-	4.2E-04	
Sband delay (usec)	-6.45875587390E+02		Apriori clock (usec)	2.6880001E+01	Resid sbdelay (usec)	-1.57079E+00	+/-	3.4E-03	
Phase delay (usec)	-6.44304794158E+02		Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.73271E-06	+/-	7.2E-07	
Delay rate (us/s)	2.59099454011E-01		Apriori rate (us/s)	2.59095565889E-01	Resid rate (us/s)	3.88812E-06	+/-	7.8E-08	
Total phase (deg)		55.6	Apriori accel (us/s/s)	-3.37959225912E-06	Resid phase (deg)	177.8	+/-	22.4	

ph/seg (deg) 74.0 Theor. 44.8 Amplitude 0.827 +/- 0.162 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5  
 amp/seg (%) 83.7 78.3 Search (64X32) 0.668 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000  
 ph/frq (deg) 24.6 31.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016  
 amp/frq (%) 41.0 55.4 Inc. seg. avg. 0.768 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite dr window (ns/s) -0.006 0.006  
 E: az 97.3 el 61.5 pa -55.2 Z: az 138.8 el 65.9 pa -24.7 u,v (fr/asec) -1938.242 -853.460 ion window (TEC) 0.00 0.00  
 Control file: ../cf\_1234 Input file: /Exps/f172a/1234/No0006/EZ.zsxph Output file: /Exps/f172a/1234/No0006/EZ.W.7.zsxph simultaneous interpolator



Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-131.0	155.3	-157.5	175.5	-172.0	-133.6	167.9	-163.0	Phase	-162.3
0.8	0.8	0.7	0.7	0.5	1.7	0.8	1.6	Ampl.	0.8
26.4	236.3	405.9	365.8	440.1	388.0	166.1	134.0	Sbd box	388.0
U/L 0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
E 808.1	805.1	804.7	803.7	804.0	804.6	804.5	807.3	PC R delays (ns)	
Z 204.5	580.9	613.5	246.7	887.7	339.9	529.7	335.3	PC L delays (ns)	
E:Z -65:-12	175:179	68:-19	-37:166	-131:12	125:-123	29:-42	-87:119	PC phase	
E:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
E 5	5	6	6	6	6	6	6	PC amp	
Z 2	0	0	0	1	1	1	0		
E W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

Group delay (usec)(model) -6.44301123276E+02 Apriori delay (usec) -6.44304799890E+02 Resid mbdelay (usec) 3.67661E-03 +/- 4.3E-04

Sband delay (usec) -6.43281476390E+02 Apriori clock (usec) 0.664 Pcal rate: 0.000E+00, 0.000E+00 (us/s) Resid sbdelay (usec) 1.02332E+00 +/- 3.4E-03

Phase delay (usec) -6.44304805124E+02 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -5.23347E-06 +/- 7.3E-07

Delay rate (us/s) 2.59091334704E-01 Apriori rate (us/s) 2.59095565889E-01 Resid rate (us/s) -4.23119E-06 +/- 7.9E-08

Total phase (deg) -284.5 Apriori accel (us/s/s) -3.37959225912E-06 Resid phase (deg) -162.3 +/- 22.5

RMS Theor. Amplitude 0.855 +/- 0.168 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5

ph/seg (deg) 64.7 45.0 Search (64X32) 0.664 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000

amp/seg (%) 66.4 78.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016

ph/frq (deg) 29.1 31.8 Inc. seg. avg. 0.864 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite dr window (ns/s) -0.006 0.006

amp/frq (%) 47.9 55.6 Inc. frq. avg. 0.814 Data rate(Mb/s): 1024 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

E: az 97.3 el 61.5 pa -55.2 Z: az 138.8 el 65.9 pa -24.7 u,v (fr/asec) -1938.242 -853.460 simultaneous interpolator

Control file: ../cf\_1234 Input file: /Exps/f172a/1234/No0006/EZ.zsxph Output file: /Exps/f172a/1234/No0006/EZ.W.8.zsxph