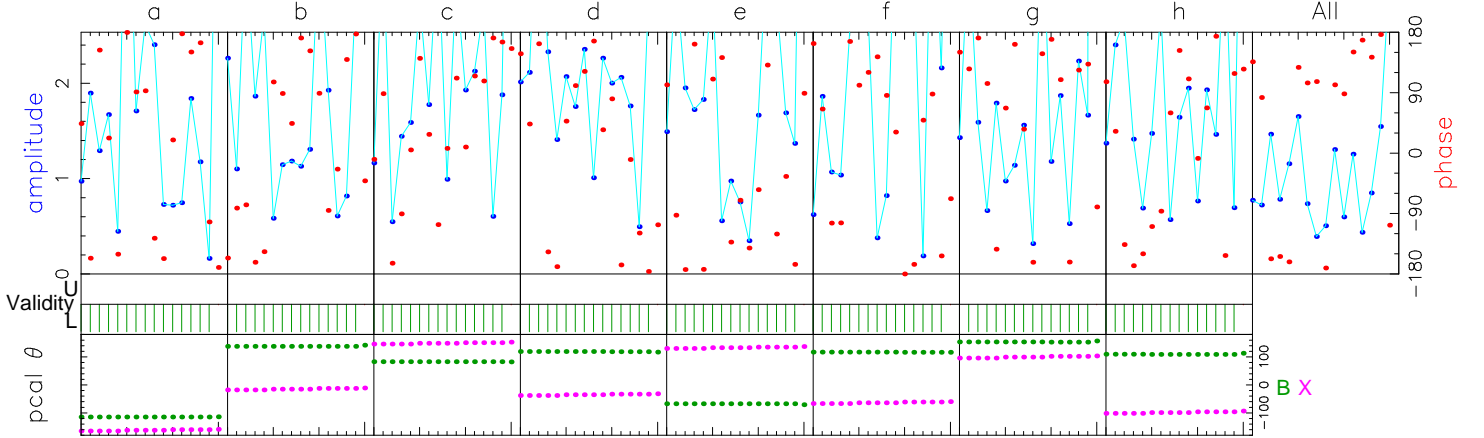
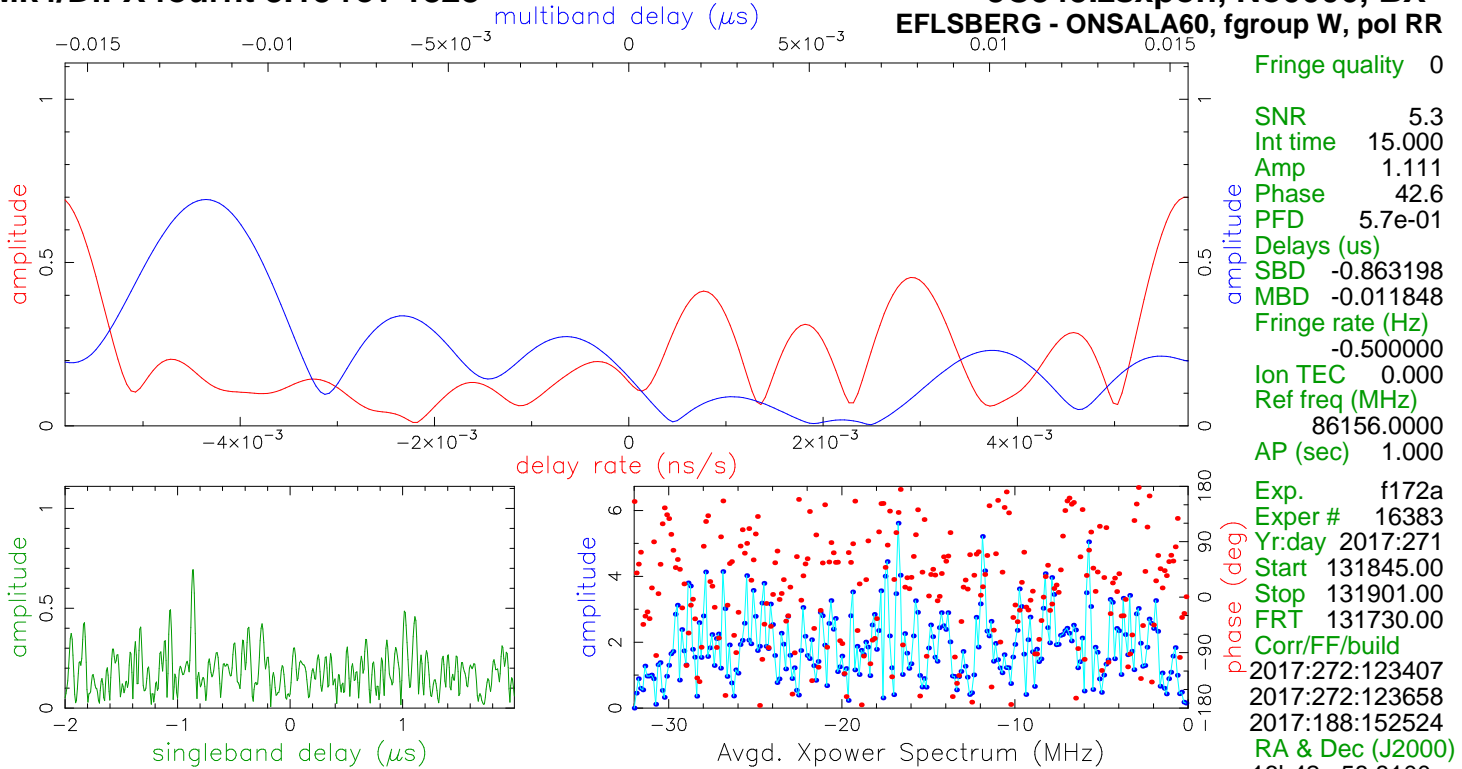


Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec

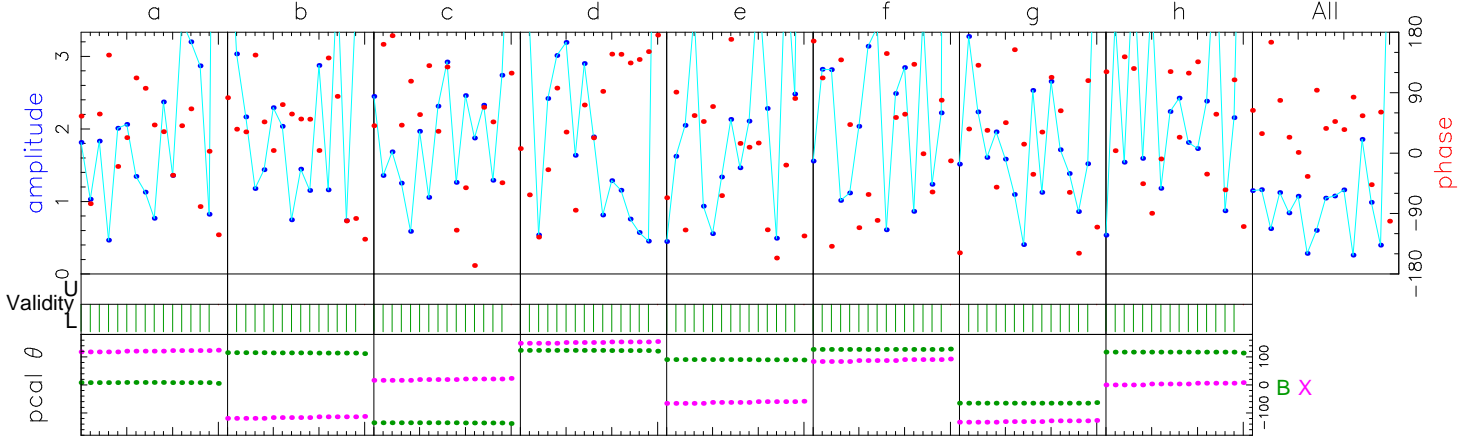


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	9	All
Freq (MHz)	158.9	-167.2	101.2	136.6	-167.5	128.4	139.6	-179.2		150.0
Phase	0.9	0.7	0.8	1.1	0.8	1.2	1.4	0.6		0.8
Ampl.	410.1	143.8	502.9	20.0	244.2	53.8	168.8	444.6		169.5
Sbd box	U/L 0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16		
APs used	B 312.1	331.2	310.7	328.7	309.8	328.8	309.5	328.1		
PC L delays (ns)	X 49.7	49.2	47.3	47.7	48.7	48.4	48.7	48.1		
PC phase	B:X -114:-161	139:-14	83:150	119:-34	-68:134	117:-63	154:100	110:-97		
ManI PC	B:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
PC amp	B 6	6	6	5	5	5	5	6		
Chan ids	X 40	42	44	40	37	37	38	37		
Tracks	B W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Chan ids	X W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Tracks										
Group delay (usec)(model)		-1.16120087151E+02		Apriori delay (usec)		-1.16129586303E+02		Resid mbdelay (usec)	9.49915E-03	+/- 3.9E-04
Sband delay (usec)		-1.16813008303E+02		Apriori clock (usec)		2.06999999E+01		Resid sbdelay (usec)	-6.83422E-01	+/- 3.1E-03
Phase delay (usec)		-1.16129581466E+02		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)	4.83657E-06	+/- 6.7E-07
Delay rate (us/s)		1.16378519939E-01		Apriori rate (us/s)		1.16381770102E-01		Resid rate (us/s)	-3.25016E-06	+/- 7.2E-08
Total phase (deg)		-79.5		Apriori accel (us/s/s)		-4.37314156977E-06		Resid phase (deg)	150.0	+/- 20.7

	RMS	Theor.	Amplitude	0.845 +/- 0.152	Pcal mode: MULTITONE, MULTITONE	PC period (AP's) 5, 5	sb window (us)	-2.000	2.000
ph/seg (deg)	42.0	41.3	Search (64X32)	0.715	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
amp/seg (%)	62.1	72.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: disabled	dr window (ns/s)	-0.006	0.006
ph/frq (deg)	36.0	29.2	Inc. seg. avg.	0.859	Sample rate(MSamp/s): 64	Data rate(Mb/s): 1024	ion window (TEC)	0.00	0.00
amp/frq (%)	31.9	51.0	Inc. frq. avg.	0.832	nlags: 256	t_cohere infinite			



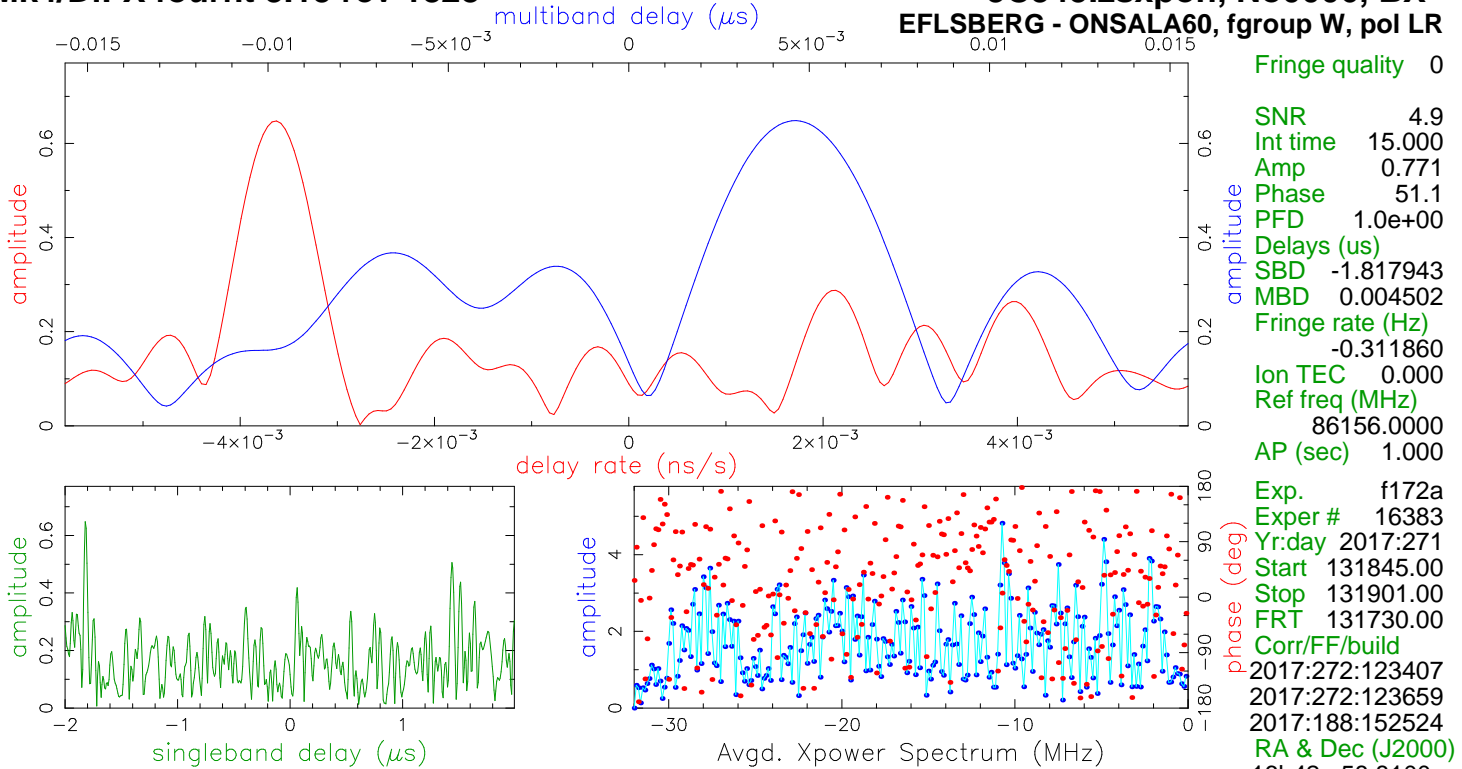
Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
29.8	51.9	67.9	34.1	15.8	17.6	51.9	62.3	62.3	Phase	42.6
1.7	2.0	0.8	1.1	1.2	0.3	0.9	1.1	1.1	Ampl.	1.0
235.9	352.6	81.1	120.5	194.9	223.2	378.6	6.3	6.3	Sbd box	146.5
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
B	310.3	328.1	308.8	326.9	309.6	328.8	311.7	330.1	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)	
B:X	8:121	114:-116	-136:20	123:152	90:-62	127:89	-65:-130	116:4	PC phase	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	5	6	5	6	5	6	5	6	PC amp	
X	54	55	62	60	52	48	59	58	Chan ids	
B	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)	-1.16141433832E+02		Apriori delay (usec)	-1.16129586303E+02		Resid mbdelay (usec)	-1.18475E-02	+/-	4.1E-04	
Sband delay (usec)	-1.16992783803E+02		Apriori clock (usec)	2.06999999E+01		Resid sbdelay (usec)	-8.63198E-01	+/-	3.3E-03	
Phase delay (usec)	-1.16129584928E+02		Apriori clockrate (us/s)	0.0000000E+00		Resid phdelay (usec)	1.37508E-06	+/-	7.0E-07	
Delay rate (us/s)	1.16375966675E-01		Apriori rate (us/s)	1.16381770102E-01		Resid rate (us/s)	-5.80343E-06	+/-	7.5E-08	
Total phase (deg)		-186.9	Apriori accel (us/s/s)	-4.37314156977E-06		Resid phase (deg)	42.6	+/-	21.6	

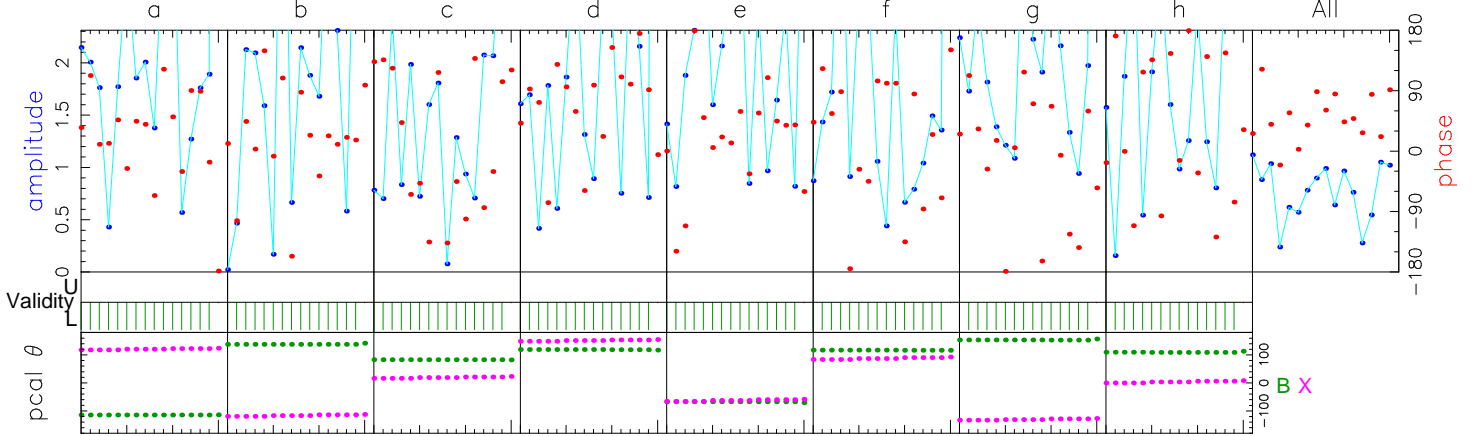
	RMS	Theor.	Amplitude	1.111 +/- 0.210	Pcal mode: MULTITONE, MULTITONE	PC period (AP's) 5, 5	sb window (us)	-2.000	2.000
ph/seg (deg)	50.5	43.3	Search (64X32)	0.687	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
amp/seg (%)	68.1	75.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: disabled	dr window (ns/s)	-0.006	0.006
ph/frq (deg)	21.5	30.6	Inc. seg. avg.	1.119	Sample rate(MSamp/s): 64	Data rate(Mb/s): 1024	ion window (TEC)	0.00	0.00
amp/frq (%)	43.4	53.4	Inc. frq. avg.	0.994	nlags: 256	t_cohere infinite			

B: az 97.3 el 61.5 pa -55.1 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/BX.zsxpoh Output file: /Exps/f172a/1234/No0006/BX.W.30.zsxpoh



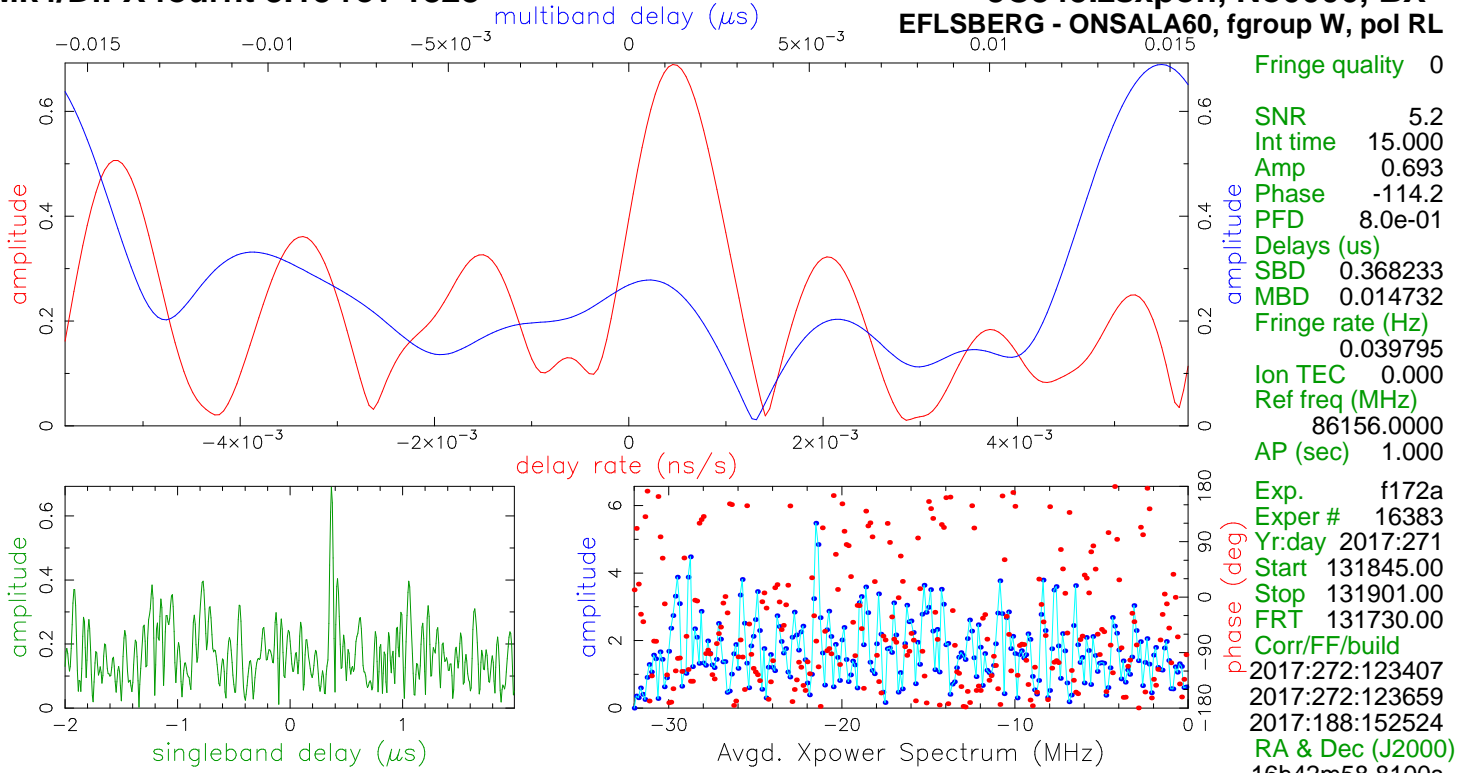
Fringe quality 0
SNR 4.9
Int time 15.000
Amp 0.771
Phase 51.1
PFD 1.0e+00
Delays (us)
SBD -1.817943
MBD 0.004502
Fringe rate (Hz)
-0.311860
Ion TEC 0.000
Ref freq (MHz)
86156.0000
AP (sec) 1.000
Exp. f172a
Exper # 16383
Yr:day 2017:271
Start 131845.00
Stop 131901.00
FRT 131730.00
Corr/FF/build
2017:272:123407
2017:272:123659
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

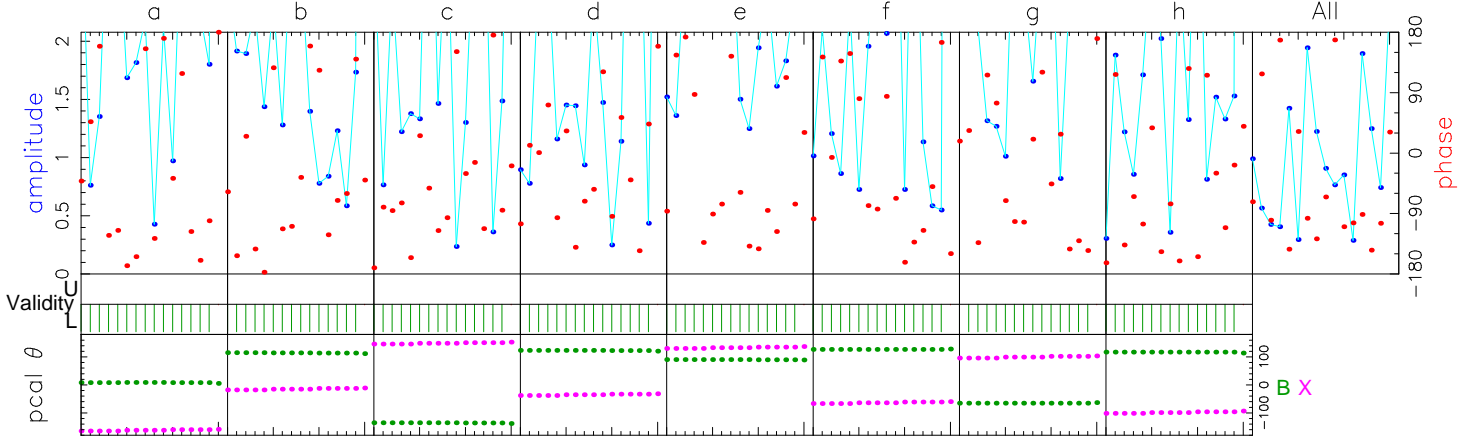


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	44.7	41.3	147.7	86.1	38.2	54.2	57.9	-113.5	Phase	51.1
	1.4	1.4	0.1	1.0	1.4	0.7	1.0	0.5	Ampl.	0.8
	25.1	358.1	347.4	16.0	254.3	507.6	440.2	203.3	Sbd box	24.3
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
B	312.1	331.2	310.7	328.7	309.8	328.8	309.5	328.1	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)	
B:X	-114:121	139:-116	83:20	119:152	-68:-62	117:89	154:-130	110:4	PC phase	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	6	6	6	5	5	5	5	6	PC amp	
X	54	55	62	60	52	48	59	58	Chan ids	
B	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)	-1.16125084141E+02		Apriori delay (usec)		-1.16129586303E+02		Resid mbdelay (usec)		4.50216E-03	+/- 4.4E-04
Sband delay (usec)	-1.17947529303E+02		Apriori clock (usec)		2.0699999E+01		Resid sbdelay (usec)		-1.81794E+00	+/- 3.5E-03
Phase delay (usec)	-1.16129584654E+02		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		1.64851E-06	+/- 7.6E-07
Delay rate (us/s)	1.16378150389E-01		Apriori rate (us/s)		1.16381770102E-01		Resid rate (us/s)		-3.61971E-06	+/- 8.2E-08
Total phase (deg)			Apriori accel (us/s/s)		-4.37314156977E-06		Resid phase (deg)		51.1	+/- 23.4

RMS Theor. Amplitude 0.771 +/- 0.158 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
 ph/seg (deg) 35.3 46.8 Search (64X32) 0.640 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 amp/seg (%) 43.4 81.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016
 ph/frq (deg) 79.6 33.1 Inc. seg. avg. 0.671 Sample rate(MSamp/s): 64 dr window (ns/s) -0.006 0.006
 amp/frq (%) 62.2 57.8 Inc. frq. avg. 0.799 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00



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
-143.7	-124.0	-84.3	-38.8	-129.7	-121.4	-101.4	-144.4	Phase	-114.2
1.1	0.6	1.3	0.6	1.1	0.7	0.5	0.5	Ampl.	0.7
427.8	115.0	24.6	322.5	435.0	381.8	331.3	435.9	Sbd box	304.1
U/L 0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
B 310.3	328.1	308.8	326.9	309.6	328.8	311.7	330.1	PC R delays (ns)	
X 49.7	49.2	47.3	47.7	48.7	48.4	48.7	48.1	PC L delays (ns)	
B:X 8:-161	114:-14	-136:150	123:-34	90:134	127:-63	-65:100	116:-97	PC phase	
B:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B 5	6	5	6	5	6	5	6	PC amp	
X 40	42	44	40	37	37	38	37	Chan ids	
B W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
X W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
								Tracks	
Group delay (usec)(model)	-1.16114854630E+02		Apriori delay (usec)	-1.16129586303E+02		Resid mbdelay (usec)	1.47317E-02	+/-	4.2E-04
Sband delay (usec)	-1.15761353303E+02		Apriori clock (usec)	2.0699999E+01		Resid sbdelay (usec)	3.68233E-01	+/-	3.3E-03
Phase delay (usec)	-1.16129589985E+02		Apriori clockrate (us/s)	0.0000000E+00		Resid phdelay (usec)	-3.68172E-06	+/-	7.1E-07
Delay rate (us/s)	1.16382231996E-01		Apriori rate (us/s)	1.16381770102E-01		Resid rate (us/s)	4.61895E-07	+/-	7.7E-08
Total phase (deg)		-343.7	Apriori accel (us/s/s)	-4.37314156977E-06		Resid phase (deg)	-114.2	+/-	22.2

ph/seg (deg) 61.9 44.3 Search (64X32) 0.683 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5

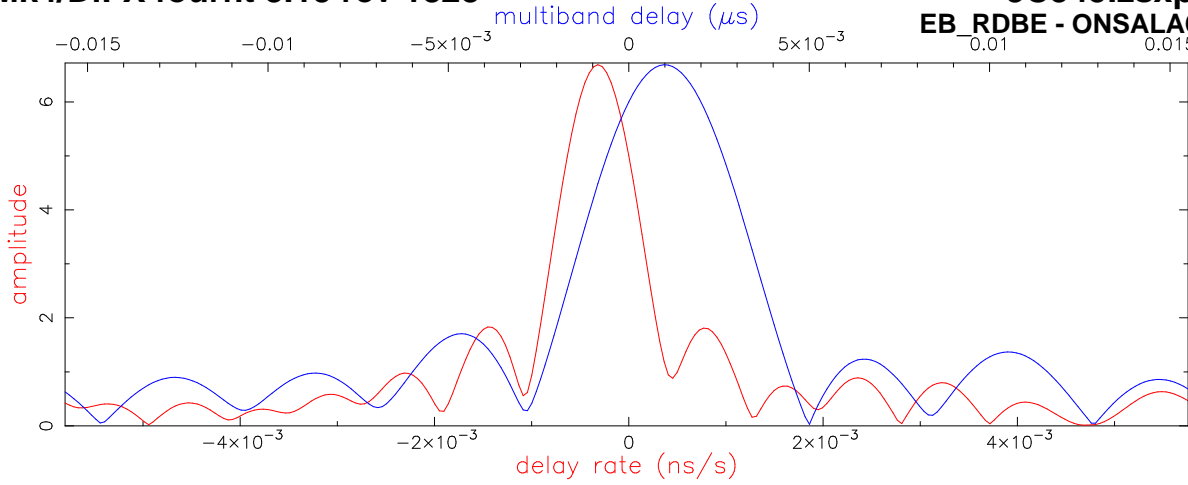
amp/seg (%) 82.3 77.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000

ph/frq (deg) 38.5 31.3 Inc. seg. avg. 0.721 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016

amp/frq (%) 45.1 54.7 Inc. frq. avg. 0.697 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.006 0.006

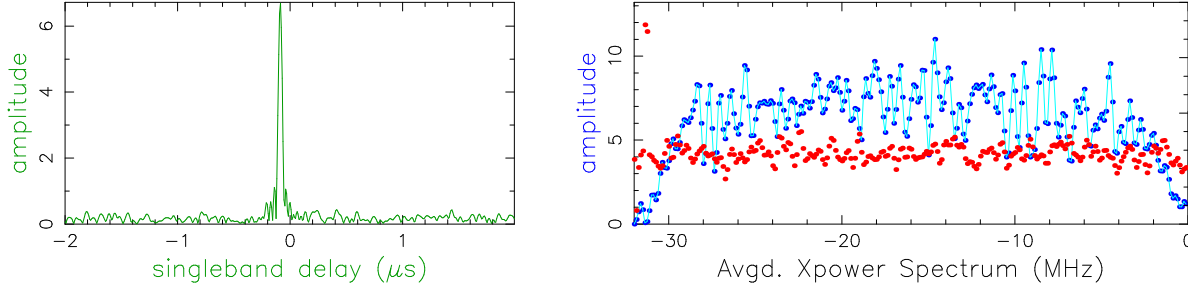
B: az 97.3 el 61.5 pa -55.1 X: az 115.4 el 62.4 pa -39.0 u,v (fr/asec) -875.878 -756.831 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/f172a/1234/No0006/BX.zsxpoh Output file: /Exps/f172a/1234/No0006/BX.W.32.zsxpoh

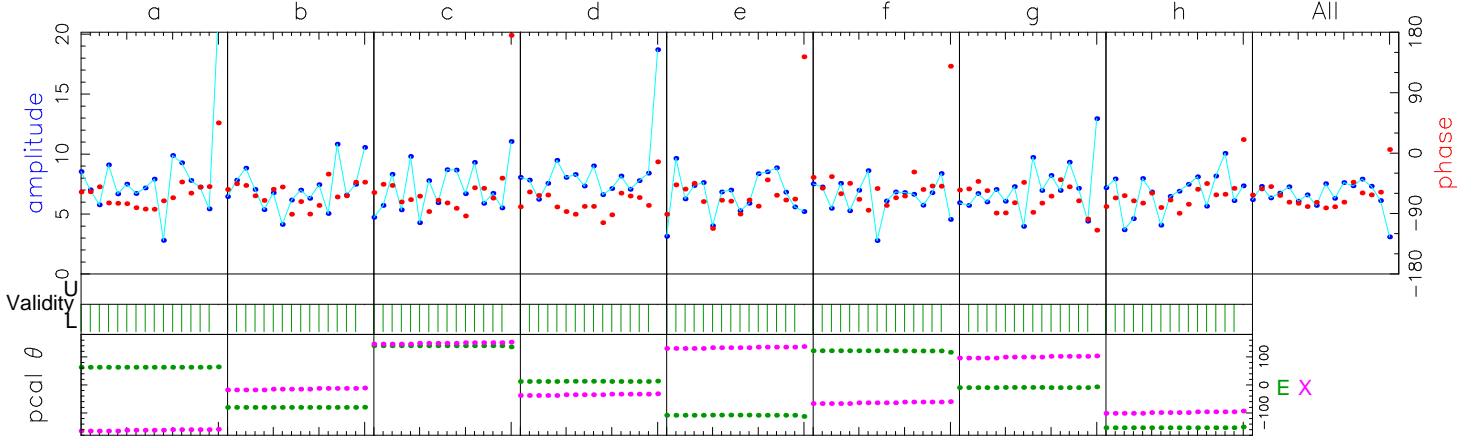


Fringe quality 8
 Error code H
 SNR 50.3
 Int time 15.000
 Amp 6.722
 Phase -65.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.087577
 MBD 0.000994
 Fringe rate (Hz)
 -0.029029
 Ion TEC 0.000
 Ref freq (MHz)
 86156.0000
 AP (sec) 1.000

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"



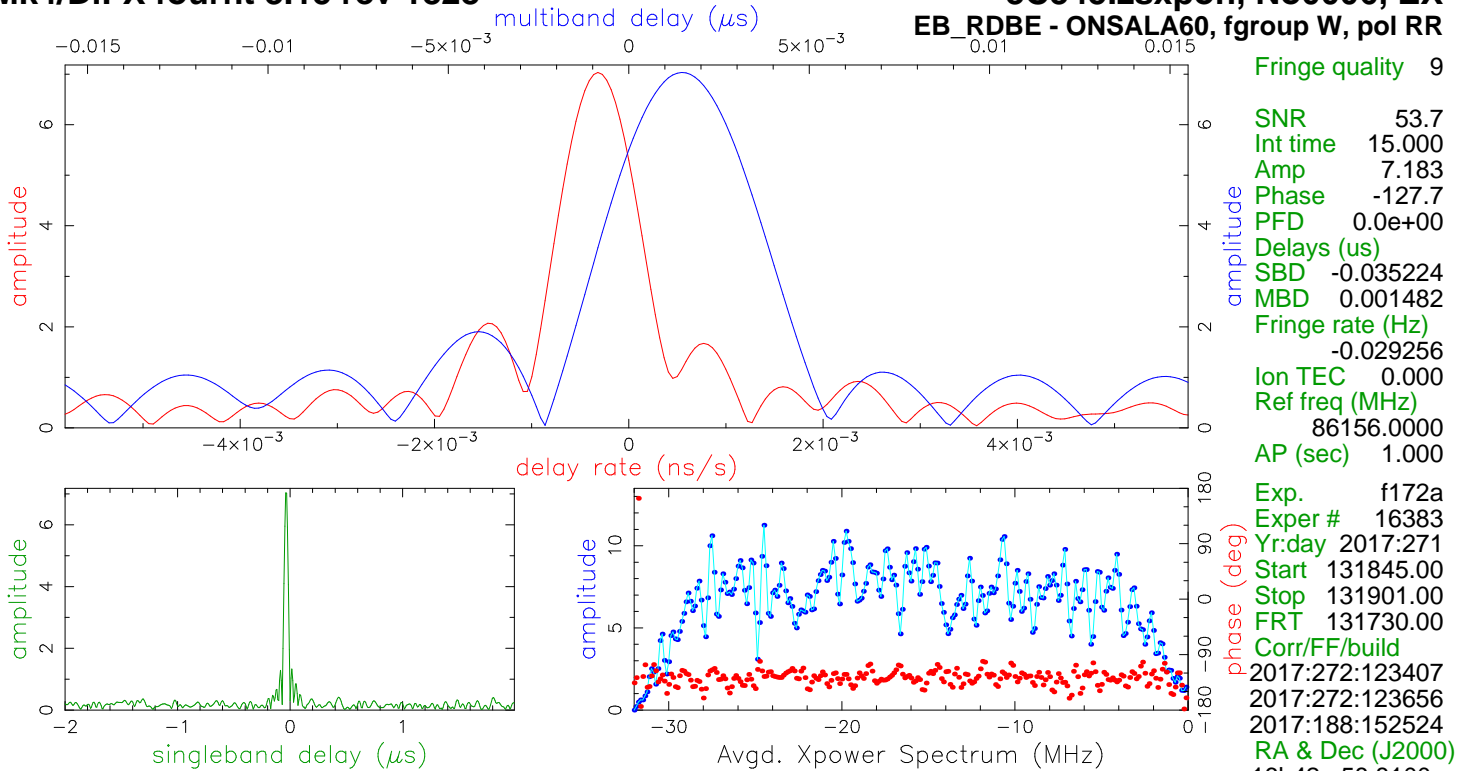
Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



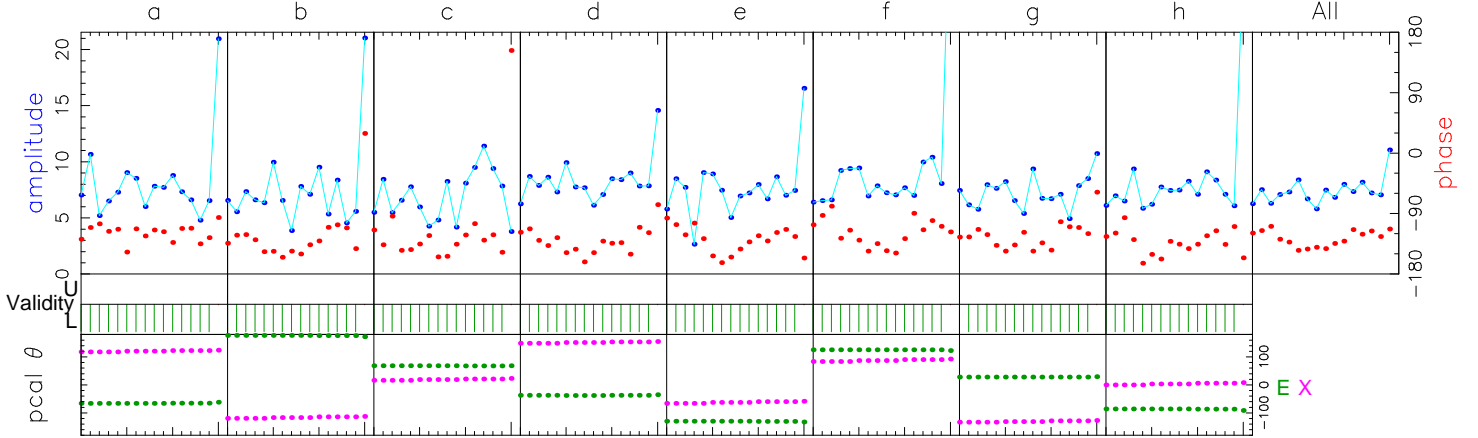
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-64.9	-61.4	-65.9	-76.0	-66.0	-55.7	-66.2	-66.8	Phase	-65.6
7.1	6.6	6.6	7.6	6.5	6.3	6.5	6.6	Ampl.	6.7
245.7	245.8	245.7	245.9	246.1	246.0	245.7	245.5	Sbd box	245.8
U/L 0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
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

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.zsxpoh Output file: /Exps/f172a/1234/No0006/EX.W.13.zsxpoh



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

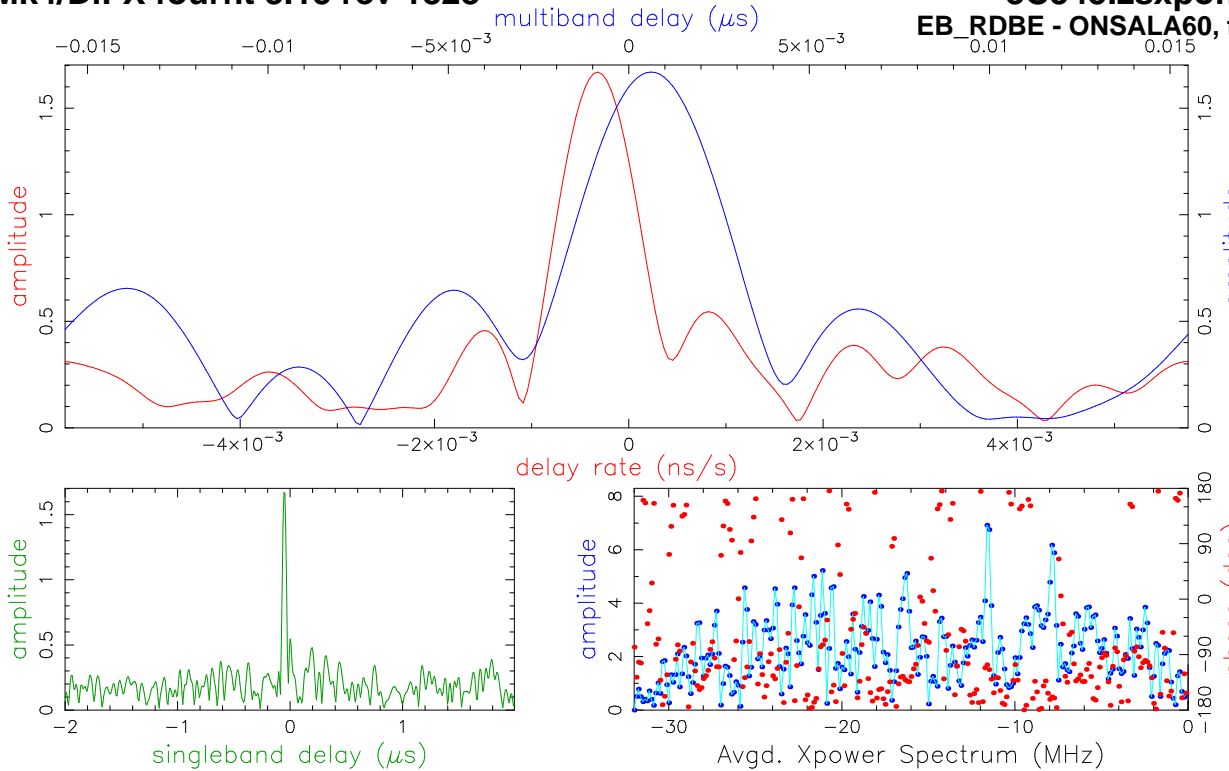
amp/seg (%) 9.9 7.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016

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

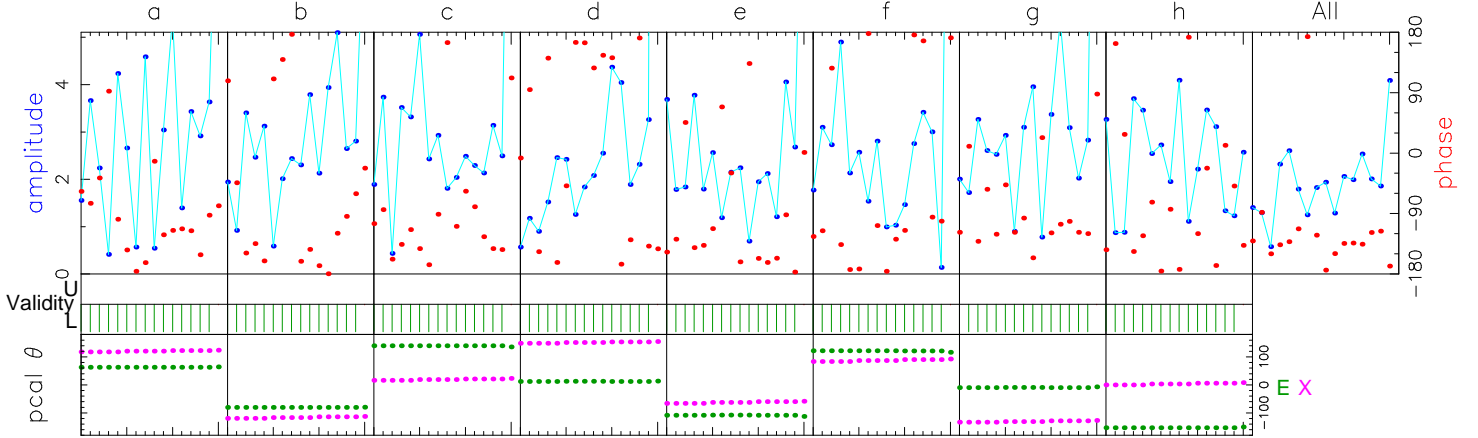
E: az 97.3 el 61.5 pa -55.2 X: az 115.4 el 62.4 pa -39.0 u,v (fr/asec) -875.878 -756.831 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/f172a/1234/No0006/EX.zsxpoh Output file: /Exps/f172a/1234/No0006/EX.W.14.zsxpoh



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"

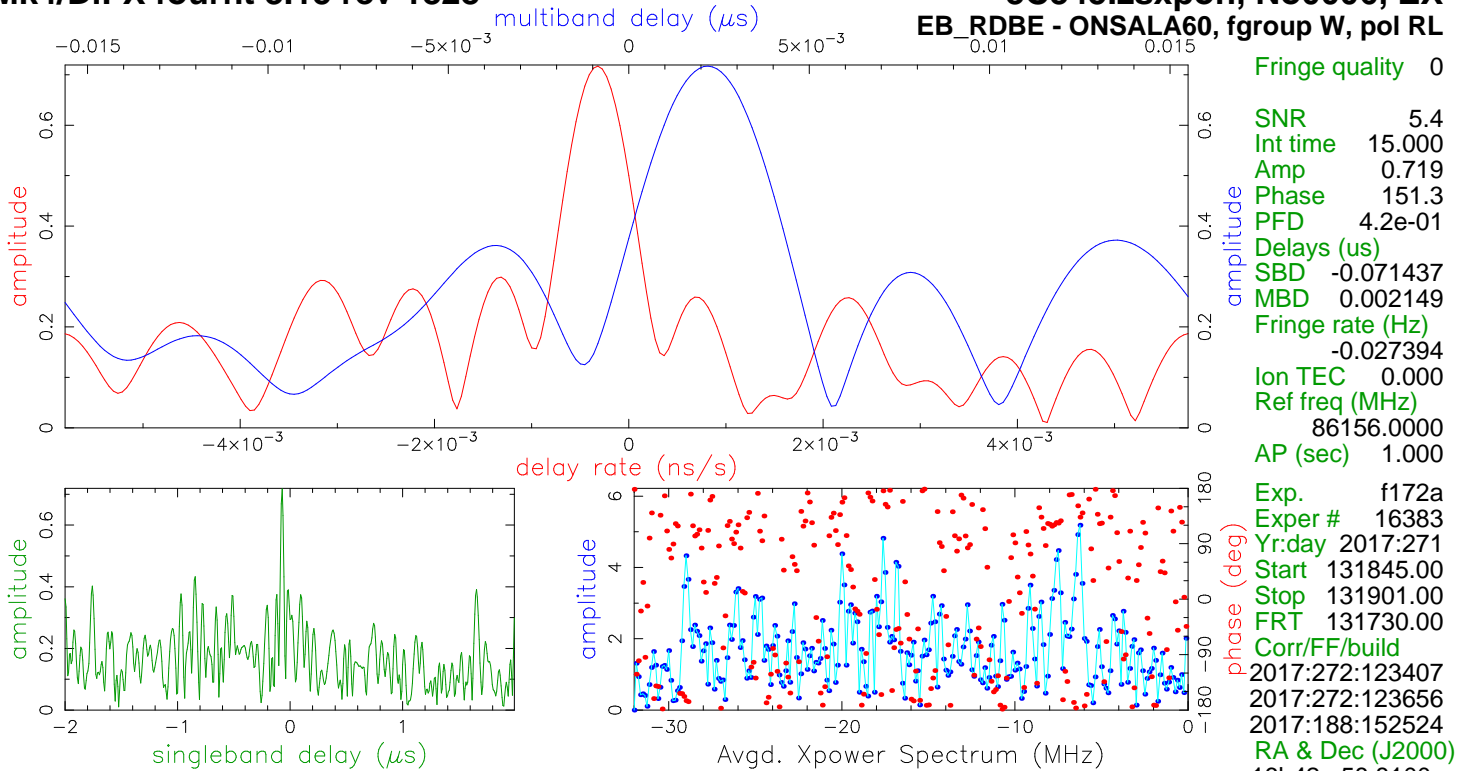
Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



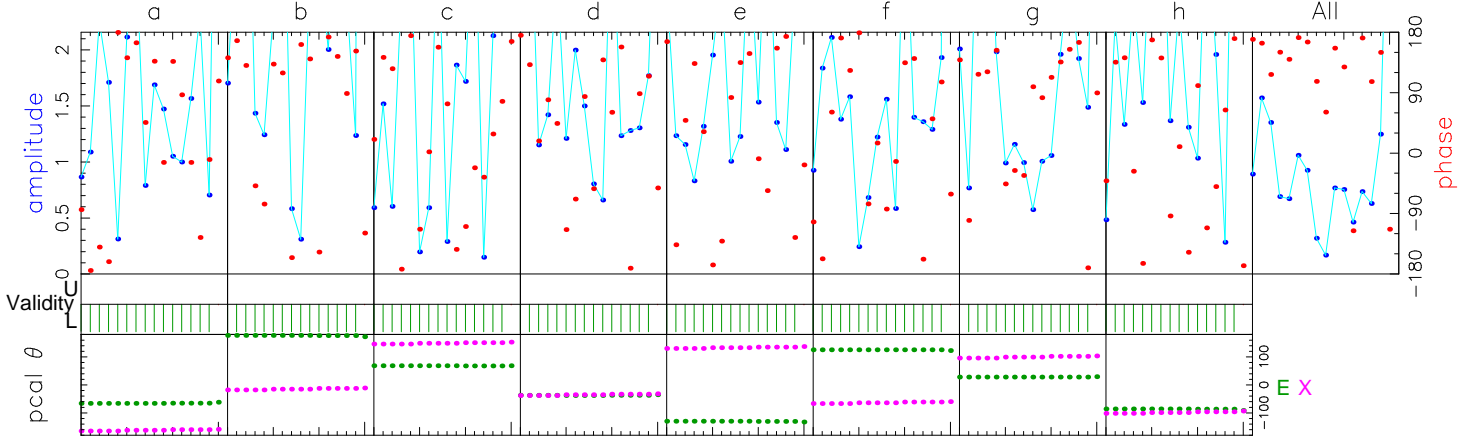
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-112.1	-148.9	-121.2	177.7	-138.2	-151.1	-106.2	-130.4	Phase	-133.4
	2.2	1.9	2.2	1.5	1.4	1.8	2.1	1.4	Ampl.	1.8
	250.3	250.7	250.9	250.3	250.0	250.2	250.7	249.2	Sbd box	250.5
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	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 23.4 Theor. 18.0 Amplitude 1.703 +/- 0.134 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
 ph/seg (deg) 23.4 18.0 Search (64X32) 1.636 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 amp/seg (%) 31.5 31.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016
 ph/frq (deg) 26.8 12.7 Inc. seg. avg. 1.706 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 (%) 20.0 22.2 Inc. frq. avg. 1.767 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

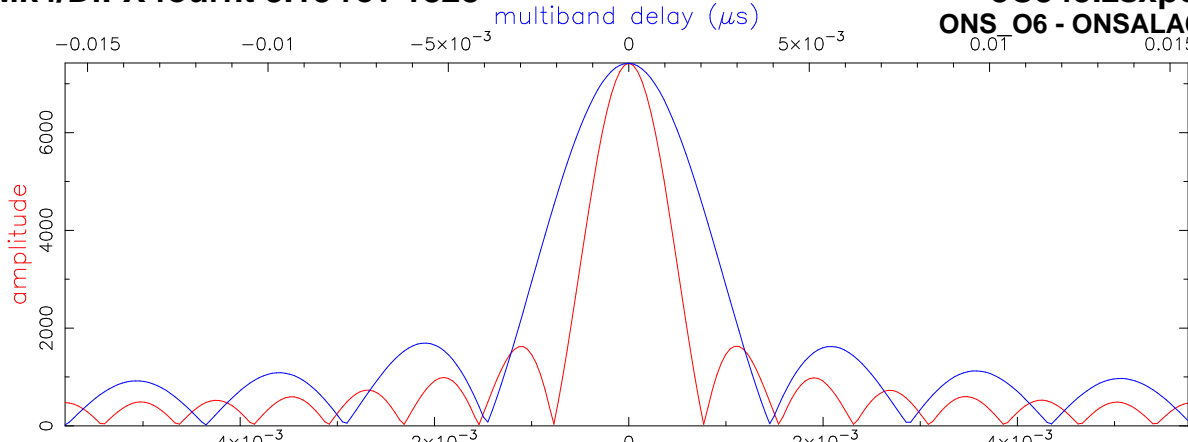
E: az 97.3 el 61.5 pa -55.2 X: az 115.4 el 62.4 pa -39.0 u,v (fr/asec) -875.878 -756.831 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/f172a/1234/No0006/EX.zsxph Output file: /Exps/f172a/1234/No0006/EX.W.15.zsxph



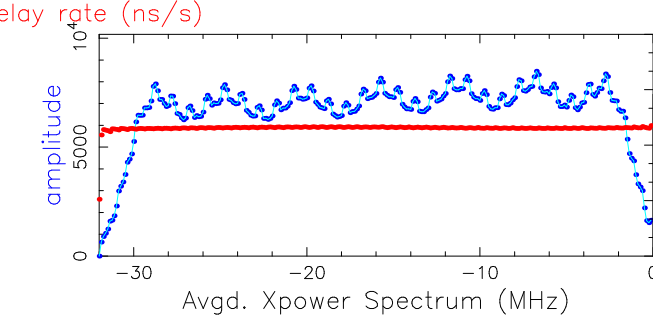
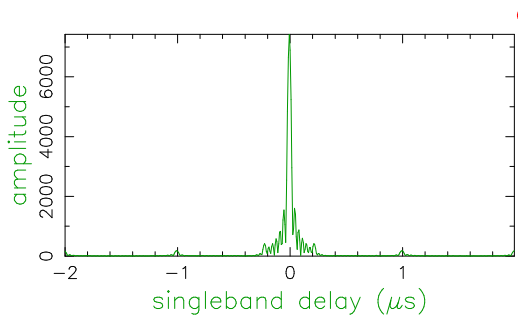
Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



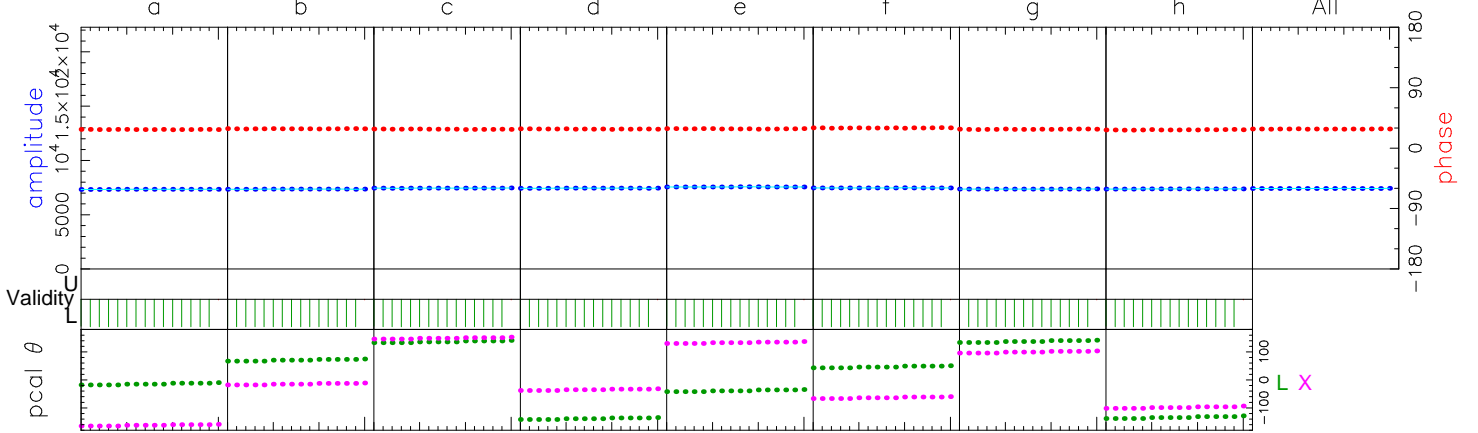
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	86412.00	All
Validity	1	1	1	1	1	1	1	1	1	1
pcal θ	0	0	0	0	0	0	0	0	0	0
86156.00	180.0	147.8	154.9	103.0	-170.2	137.1	135.7	-176.8		151.3
0.6	1.6	0.4	0.4	0.8	0.6	0.5	1.1	0.8		0.7
277.6	248.0	284.3	293.9	56.5	508.2	247.5	247.5	270.8		247.9
U/L	0/16	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		807.3
X	49.7	49.2	47.3	47.7	48.7	48.4	48.7	48.1		48.1
E:X	-65:-161	175:-14	68:150	-37:-34	-131:134	125:-63	29:100	-87:-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	6	6	6	6	6	6		PC amp
X	40	42	44	40	37	37	38	37		
E	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		Chan ids
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		Tracks
										Chan ids
										Tracks
Group delay (usec)(model)	-1.15867437293E+02				-1.15869586303E+02				2.14901E-03	+/- 4.0E-04
Sband delay (usec)	-1.15941023303E+02				2.0960001E+01				-7.14370E-02	+/- 3.2E-03
Phase delay (usec)	-1.15869581426E+02				0.0000000E+00				4.87661E-06	+/- 6.9E-07
Delay rate (us/s)	1.16381452144E-01				1.16381770102E-01				-3.17958E-07	+/- 7.4E-08
Total phase (deg)		123.3			-4.37314156977E-06				151.3	+/- 21.3
RMS	40.3	42.6			0.709					
ph/seg (deg)	40.3	42.6			0.709					
amp/seg (%)	55.6	74.3			0.000					
ph/frq (deg)	32.0	30.1			0.644					
amp/frq (%)	54.2	52.6			0.700					
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: MULTITONE, MULTITONE										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
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								
PC period (AP's)	5	5								
Simultaneous interpolator										



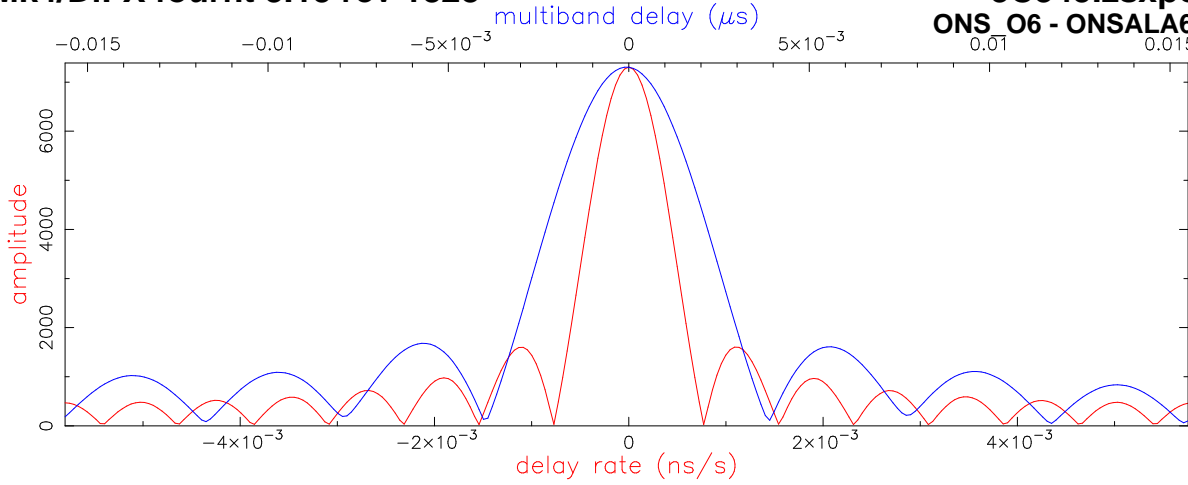
Fringe quality 9
SNR 55610.0
Int time 15.000
Amp 7425.408
Phase 28.4
PFD 0.0e+00
Delays (us)
SBD -0.007068
MBD -0.000017
Fringe rate (Hz) 0.000138
Ion TEC 0.000
Ref freq (MHz) 86156.0000
AP (sec) 1.000
Exp. f172a
Exper # 16383
Yr:day 2017:271
Start 131845.00
Stop 131901.00
FRT 131730.00
Corr/FF/build
2017:272:123407
2017:272:123701
2017:188:152524
RA & Dec (J2000)
16h42m58.8100s
+39°48'36.994"



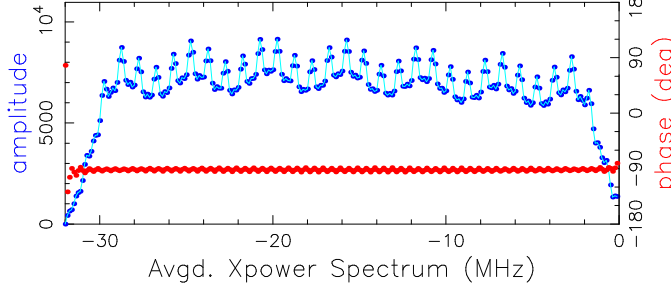
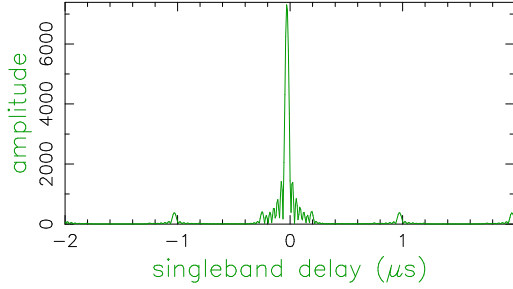
Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



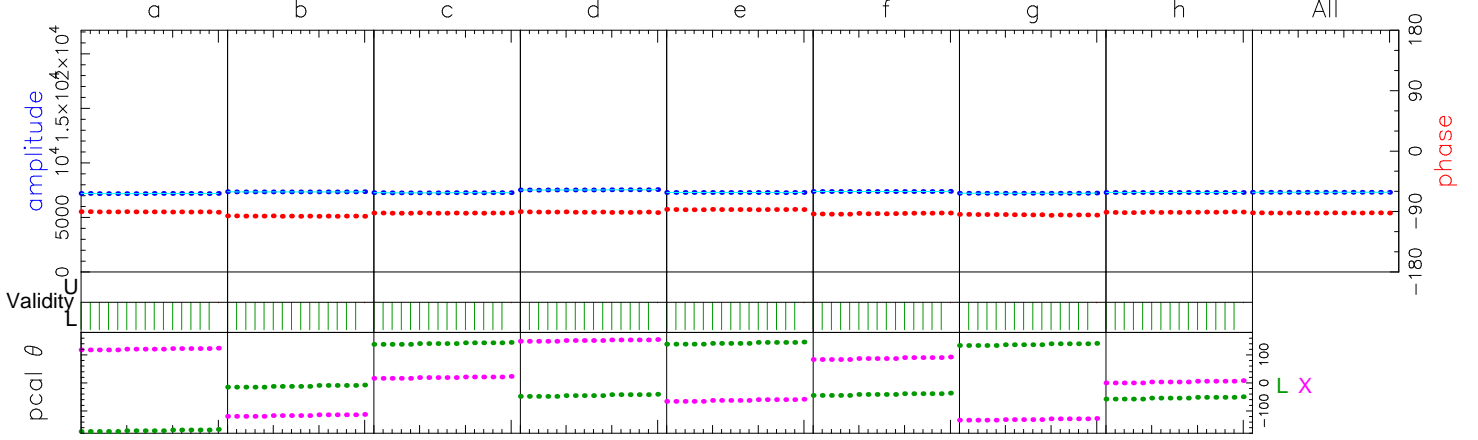
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
	27.7	28.8	28.1	28.4	28.7	30.0	28.0	27.2	Phase	28.4	
	7337.3	7355.3	7451.9	7444.1	7562.3	7471.5	7364.8	7373.4	Ampl.	7420.1	
	256.3	256.1	255.8	256.1	256.3	256.0	256.3	255.8	Sbd box	256.1	
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used		
L	56.0	56.3	57.1	55.1	54.6	56.5	54.2	56.8	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)		
L:X	-14:-161	71:-14	137:150	-138:-34	-38:134	47:-63	138:100	-133:-97	PC phase		
L:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC		
L	32	33	35	32	29	30	31	31	PC amp		
X	40	42	44	40	37	37	38	37			
L	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids		
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks		
									Chan ids		
									Tracks		
Group delay (usec)(model)	-1.89325700969E-05		Apriori delay (usec)		-2.18257009688E-06		Resid mbdelay (usec)		-1.67500E-05	+/- 3.9E-08	
Sband delay (usec)	-7.06968257010E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-7.06750E-03	+/- 3.1E-07	
Phase delay (usec)	-1.26813477357E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		9.14435E-07	+/- 6.6E-11	
Delay rate (us/s)	3.41172180299E-10		Apriori rate (us/s)		-1.26057349035E-09		Resid rate (us/s)		1.60175E-09	+/- 7.2E-12	
Total phase (deg)			Apriori accel (us/s/s)		9.27981940598E-14		Resid phase (deg)		28.4	+/- 0.0	
RMS	Theor.	Amplitude	7425.408 +/- 0.134		Pcal mode: MULTITONE, MULTITONE		PC period (AP's) 5, 5		sb window (us)	-2.000	2.000
ph/seg (deg)	0.2	0.0	Search (64X32)		7419.068		0.000E+00 (us/s)		mb window (us)	-0.016	0.016
amp/seg (%)	0.1	0.0	Interp.		0.000		Bits/sample: 2x2		SampCntNorm: disabled	-0.006	0.006
ph/frq (deg)	0.9	0.0	Inc. seg. avg.		7419.407		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.006	0.006
amp/frq (%)	1.0	0.0	Inc. frq. avg.		7420.055		Data rate(Mb/s): 1024		ion window (TEC)	0.00	0.00
								nlags: 256	t_cohere infinite		



Fringe quality 9
SNR 55340.1
Int time 15.000
Amp 7389.366
Phase -92.0
PFD 0.0e+00
Delays (us)
SBD -0.028419
MBD -0.000067
Fringe rate (Hz) 0.000215
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
2017:272:123701
2017:188:152524
RA & Dec (J2000)
16h42m58.8100s
+39°48'36.994"



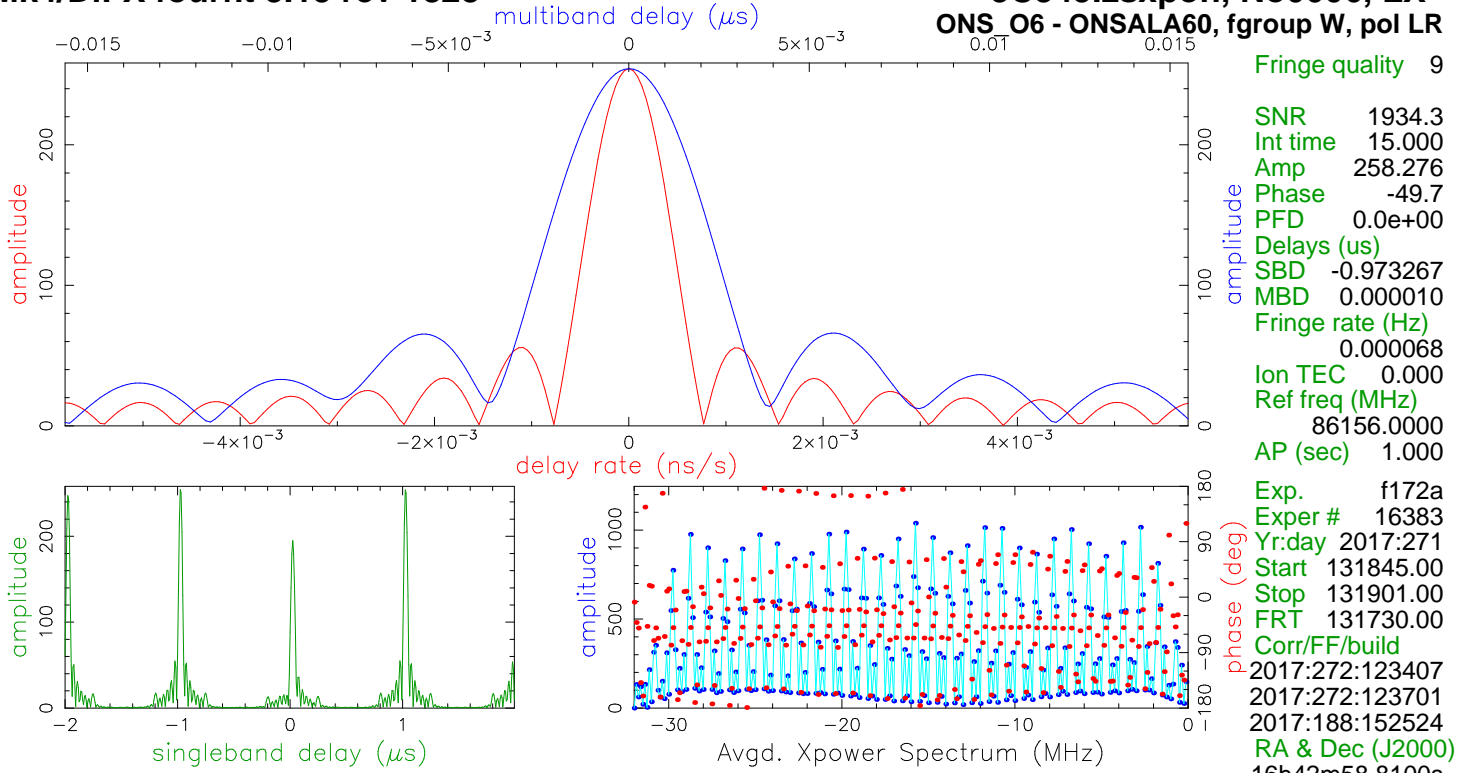
Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



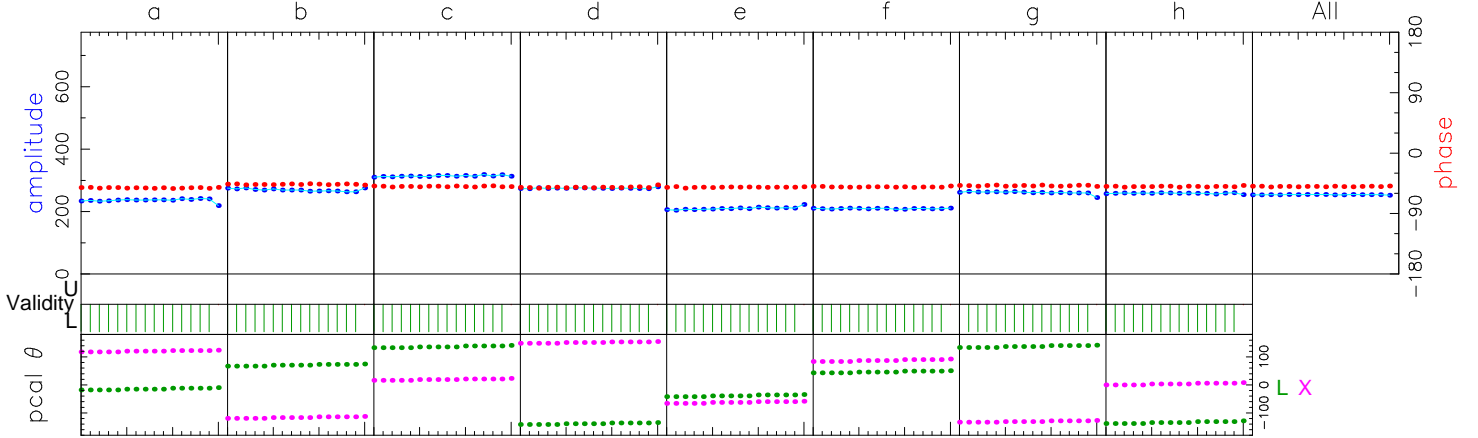
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	Phase	-92.0
L	110.8	113.1	111.3	109.9	109.2	111.0	110.0	111.7	Ampl.	7314.2
X	84.4	84.0	81.7	81.5	82.1	81.5	83.2	81.9	Sbd box	253.4
L:X	-170:121	-11:-116	142:20	-44:152	143:-62	-40:89	138:-130	-53:4	PC R delays (ns)	
L:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
L	45	48	51	47	42	43	47	47	ManI PC	
X	54	55	62	60	52	48	59	58	PC amp	
L	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(model)	-6.91825700969E-05			Apriori delay (usec)	-2.18257009688E-06			Resid mbdelay (usec)	-6.70000E-05	+/- 3.9E-08
Sband delay (usec)	-2.84211825701E-02			Apriori clock (usec)	0.0000000E+00			Resid sbdelay (usec)	-2.84190E-02	+/- 3.1E-07
Phase delay (usec)	-5.14897503970E-06			Apriori clockrate (us/s)	0.0000000E+00			Resid phdelay (usec)	-2.96640E-06	+/- 6.7E-11
Delay rate (us/s)	1.23489983711E-09			Apriori rate (us/s)	-1.26057349035E-09			Resid rate (us/s)	2.49547E-09	+/- 7.2E-12
Total phase (deg)		-159.7		Apriori accel (us/s/s)	9.27981940598E-14			Resid phase (deg)	-92.0	+/- 0.0

RMS Theor. Amplitude 7389.366 +/- 0.134 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
 ph/seg (deg) 0.2 0.0 Search (64X32) 7302.942 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 amp/seg (%) 1.1 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016
 ph/frq (deg) 3.2 0.0 Inc. seg. avg. 7305.760 Sample rate(MSamp/s): 64 dr window (ns/s) -0.006 0.006
 amp/frq (%) 1.7 0.0 Inc. frq. avg. 7314.203 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

L: az 115.4 el 62.4 pa -39.0 X: az 115.4 el 62.4 pa -39.0 u,v (fr/asec) -0.000 0.000 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/f172a/1234/No0006/LX..zxpoh Output file: /Exps/f172a/1234/No0006/LX.W.50.zxpoh

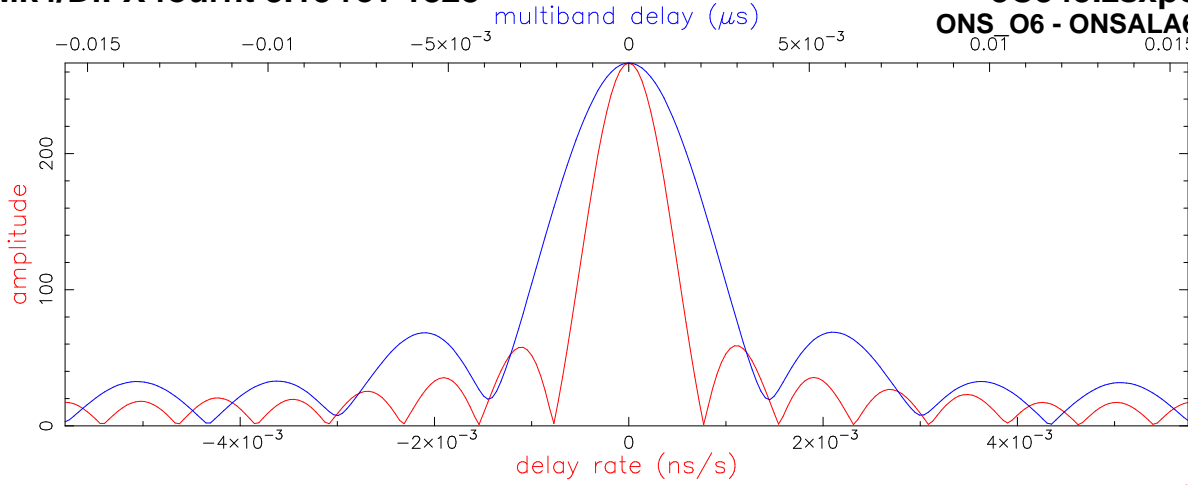


Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	86412.00	All	
86156.00	-51.8	-46.4	-49.6	-51.1	-50.8	-50.3	-48.5	-49.8	-49.8	Phase	
237.5	268.9	314.1	274.7	209.5	209.6	261.7	261.7	258.8	258.8	Ampl.	
132.7	132.5	259.8	260.4	260.1	259.2	132.7	132.7	132.2	132.2	Sbd box	
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
L	56.0	56.3	57.1	55.1	54.6	56.5	54.2	56.8	56.8	PC L delays (ns)	
X	84.4	84.0	81.7	81.5	82.1	81.5	83.2	81.9	81.9	PC R delays (ns)	
L:X	-14:121	71:-116	137:20	-138:152	-38:-62	47:89	138:-130	-133:4	-133:4	PC phase	
L:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
L	32	33	35	32	29	30	31	31	31	PC amp	
X	54	55	62	60	52	48	59	58	58		
L	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	W07LL	Chan ids	
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	W07LR	Tracks	
										Chan ids	
										Tracks	
Group delay (usec)(model)		8.25492990312E-06	Apriori delay (usec)		-2.18257009688E-06	Resid mbdelay (usec)		1.04375E-05	+/-	1.1E-06	
Sband delay (usec)		-9.73269182570E-01	Apriori clock (usec)		0.0000000E+00	Resid sbdelay (usec)		-9.73267E-01	+/-	8.9E-06	
Phase delay (usec)		-3.78561009432E-06	Apriori clockrate (us/s)		0.0000000E+00	Resid phdelay (usec)		-1.60304E-06	+/-	1.9E-09	
Delay rate (us/s)		-4.71307507709E-10	Apriori rate (us/s)		-1.26057349035E-09	Resid rate (us/s)		7.89266E-10	+/-	2.1E-10	
Total phase (deg)			-117.4	Apriori accel (us/s/s)		9.27981940598E-14	Resid phase (deg)		-49.7	+/-	0.1

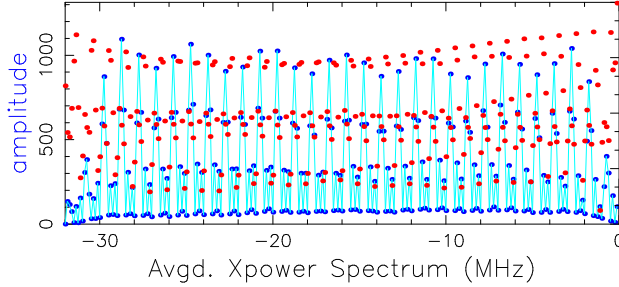
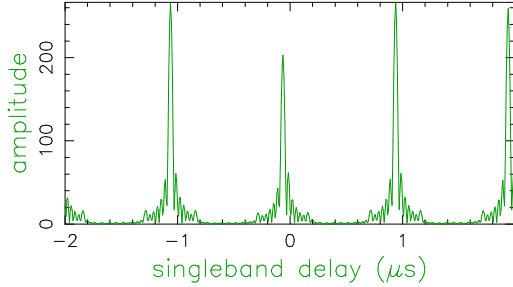
	RMS	Theor.	Amplitude	258.276 +/- 0.134	Pcal mode: MULTITONE, MULTITONE	PC period (AP's)	5, 5	
ph/seg (deg)	0.4	0.1	Search (64X32)	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-2.000 2.000	
amp/seg (%)	1.6	0.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: disabled	mb window (us)	-0.016 0.016
ph/frq (deg)	1.8	0.1	Inc. seg. avg.	254.244	Sample rate(MSamp/s): 64		dr window (ns/s)	-0.006 0.006
amp/frq (%)	12.8	0.1	Inc. frq. avg.	254.337	Data rate(Mb/s): 1024	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00



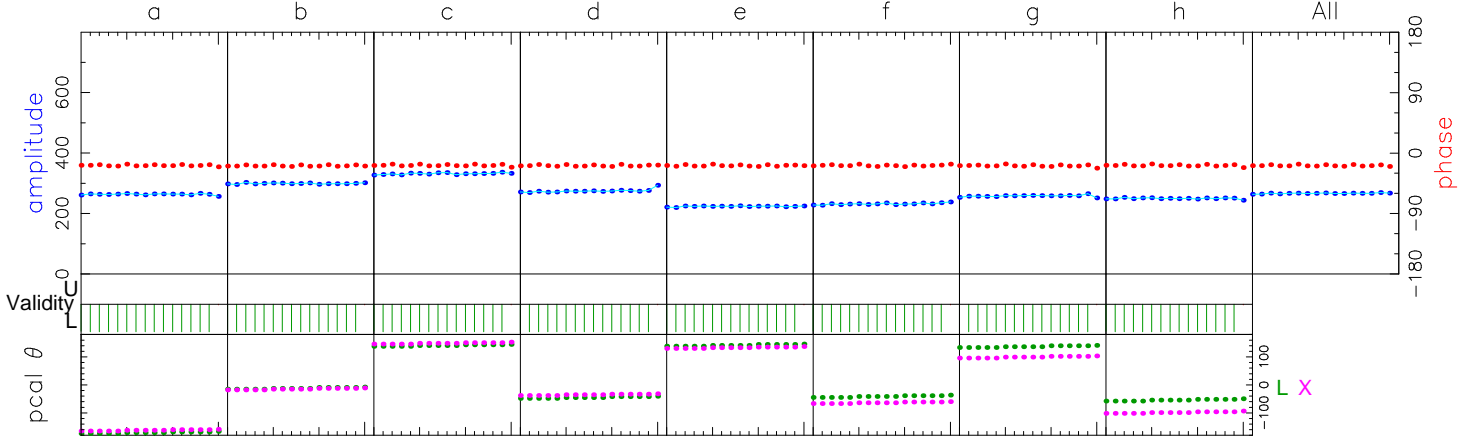
Fringe quality 9

SNR 1996.5
Int time 15.000
Amp 266.590
Phase -18.4
PFD 0.0e+00
Delays (us)
SBD 0.937487
MBD 0.000003
Fringe rate (Hz) 0.000183
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
2017:272:123701
2017:188:152524
RA & Dec (J2000)
16h42m58.8100s
+39°48'36.994"



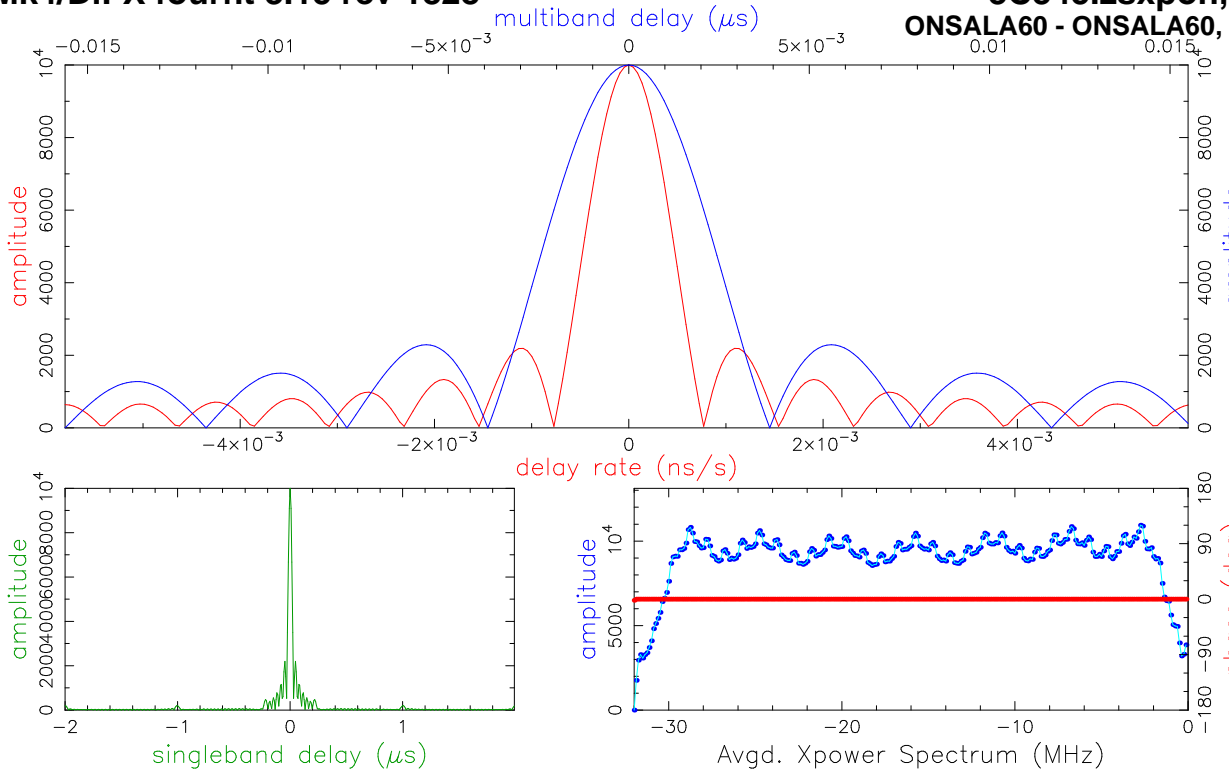
Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	86412.00	All
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	
L	110.8	113.1	111.3	109.9	109.2	111.0	110.0	111.7	111.7	APs used
X	49.7	49.2	47.3	47.7	48.7	48.4	48.7	48.1	48.1	PC R delays (ns)
L:X	-170:-161	-11:-14	142:150	-44:-34	143:134	-40:-63	138:100	-53:-97		PC L delays (ns)
L:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
L	45	48	51	47	42	43	47	47		ManI PC
X	40	42	44	40	37	37	38	37		PC amp
L	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		Chan ids
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		Tracks
										Chan ids
										Tracks
Group delay (usec)(model)	6.92429903124E-07									2.87500E-06 +/- 1.1E-06
Sband delay (usec)	9.37484817430E-01									9.37487E-01 +/- 8.6E-06
Phase delay (usec)	-2.7754521117E-06									-5.92882E-07 +/- 1.9E-09
Delay rate (us/s)	8.63480551161E-10									2.12405E-09 +/- 2.0E-10
Total phase (deg)			-86.1							-18.4 +/- 0.1
	RMS	Theor.	Amplitude	266.590 +/- 0.134						
ph/seg (deg)	0.9	0.1	Search (64X32)	266.586						Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
amp/seg (%)	0.5	0.2	Interp.	0.000						Pcal rate: 0.000E+00, 0.000E+00 (us/s)
ph/frq (deg)	0.3	0.1	Inc. seg. avg.	266.624						Bits/sample: 2x2 SampCntNorm: disabled
amp/frq (%)	12.4	0.1	Inc. frq. avg.	266.592						Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024
										nlags: 256 t_cohere infinite

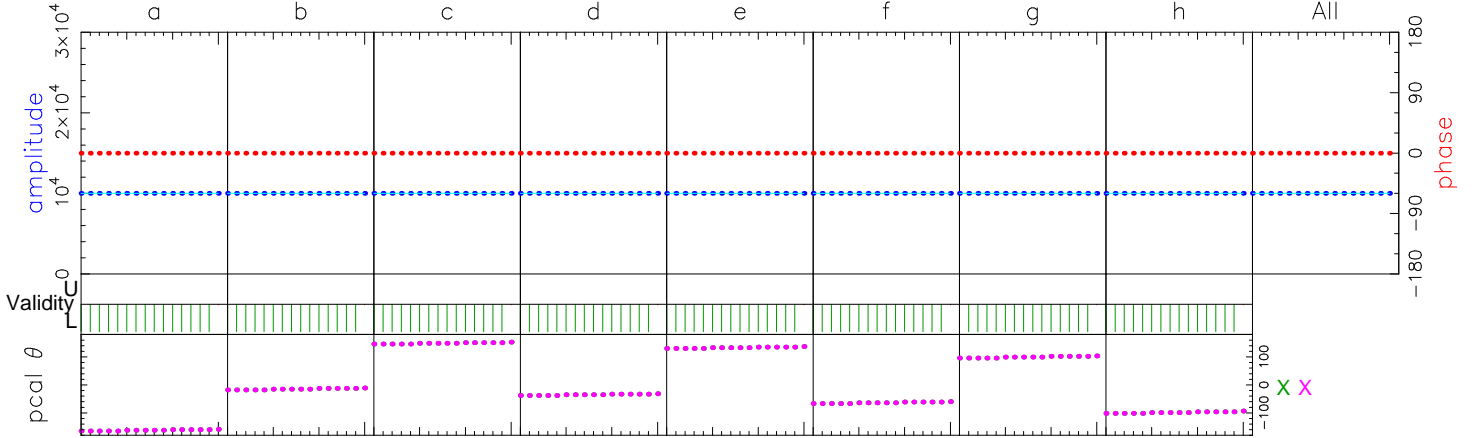
L: az 115.4 el 62.4 pa -39.0 X: az 115.4 el 62.4 pa -39.0 u,v (fr/asec) -0.000 0.000 simultaneous interpolator

Control file: ../cf_1234 Input file: /Exps/f172a/1234/No0006/LX..zcxph Output file: /Exps/f172a/1234/No0006/LX.W.52.zcxph



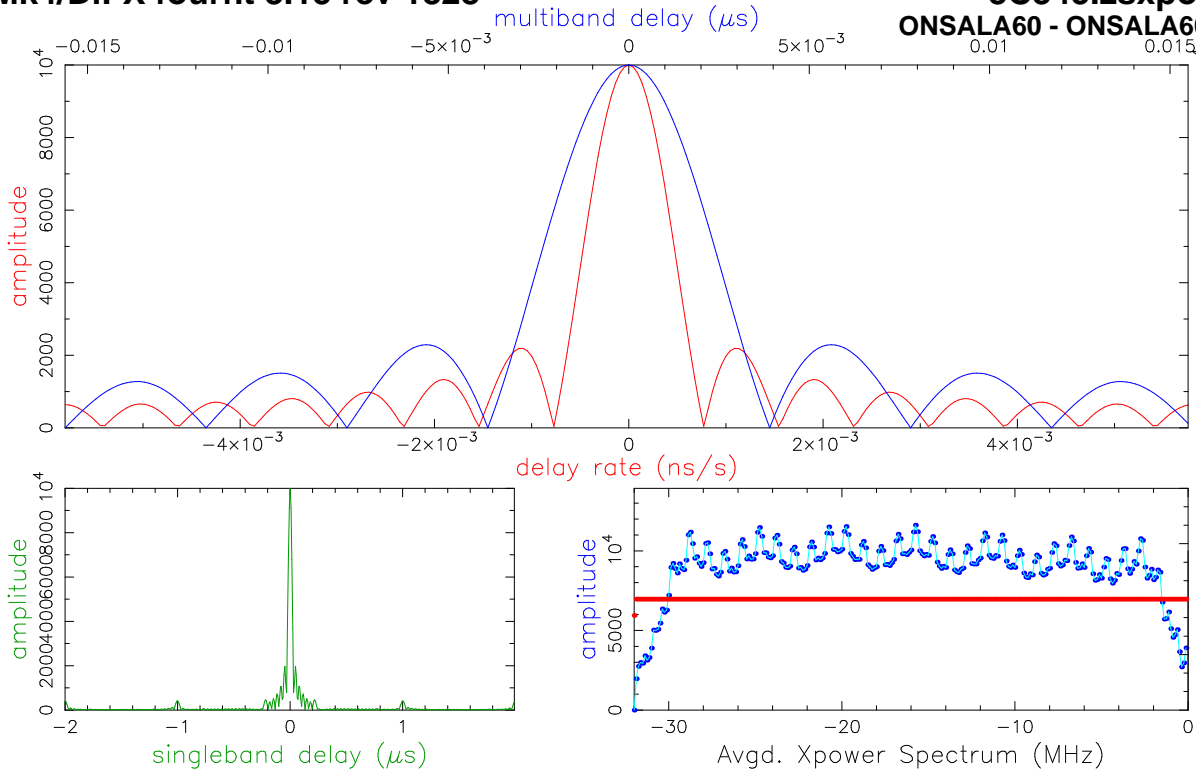
Fringe quality 9
 SNR 74891.5
 Int time 15.000
 Amp 10000.000
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86156.0000
 AP (sec) 1.000
 Exp. f172a
 Exper # 16383
 Yr:day 2017:271
 Start 131845.00
 Stop 131901.00
 FRT 131730.00
 Corr/FF/build
 2017:272:123407
 2017:272:123705
 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	0.0	0.0
X	49.7	49.2	47.3	47.7	48.7	48.4	48.7	48.1	10000.0	10000.0
X:X	-161:-161	-14:-14	150:150	-34:-34	134:134	-63:-63	100:100	-97:-97	0.0	0.0
X	40	42	44	40	37	37	38	37	257.0	257.0
X	40	42	44	40	37	37	38	37	0.0	0.0
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	0.0	0.0
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	0.0	0.0
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	0.00000E+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	0.00000E+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	0.00000E+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	0.00000E+00	+/- 5.3E-12
Total phase (deg)			0.0						0.0	+/- 0.0

ph/seg (deg) 0.0 0.0 Theor. Amplitude 10000.000 +/- 0.134 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (64X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 ph/frq (deg) 0.0 0.0 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
 X: az 115.4 el 62.4 pa -39.0 X: az 115.4 el 62.4 pa -39.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/f172a/1234/No0006/XX.zsxpoh Output file: /Exps/f172a/1234/No0006/XX.W.77.zsxpoh



Fringe quality 9

SNR 74891.5

Int time 15.000

Amp 10000.000

Phase 0.0

PFD 0.0e+00

Delays (us)

SBD 0.000000

MBD 0.000000

Fringe rate (Hz)

0.000000

Ion TEC 0.000

Ref freq (MHz)

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

2017:272:123705

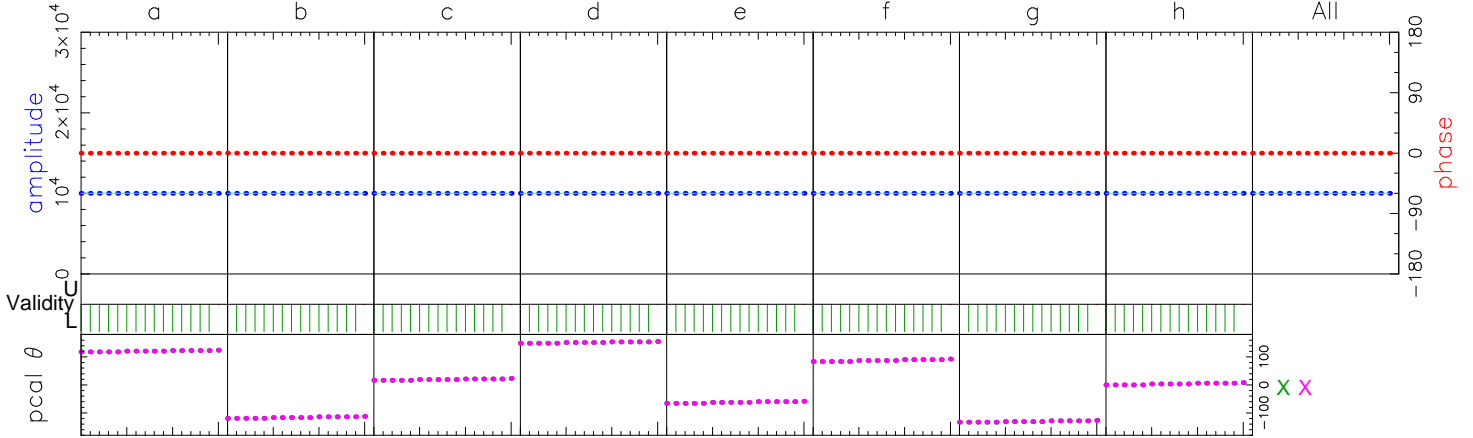
2017:188:152524

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
	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
	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Sbd box	257.0
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
X	84.4	84.0	81.7	81.5	82.1	81.5	83.2	81.9	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)	
X:X	121:121	-116:-116	20:20	152:152	-62:-62	89:89	-130:-130	4:4	PC phase	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
X	54	55	62	60	52	48	59	58	PC amp	
X	54	55	62	60	52	48	59	58		
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	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

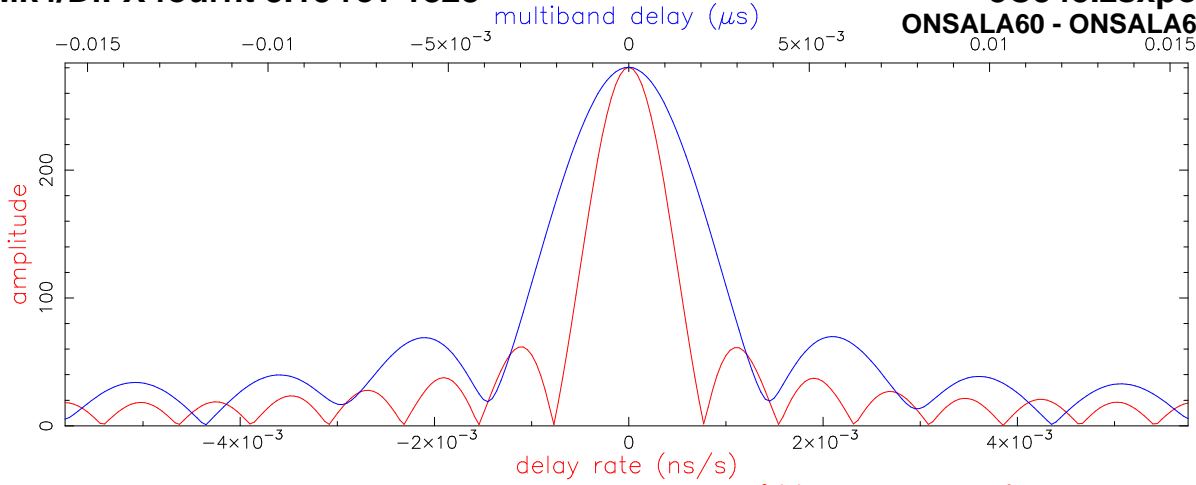
RMS Theor. Amplitude 10000.000 +/- 0.134 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5

ph/seg (deg) 0.0 0.0 Search (64X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000

amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016

ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 dr window (ns/s) -0.006 0.006

amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.000 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00



Fringe quality 9

SNR 2125.4

Int time 15.000

Amp 283.799

Phase -74.9

PFD 0.0e+00

Delays (us)

SBD -0.965935

MBD 0.000002

Fringe rate (Hz)

-0.000069

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

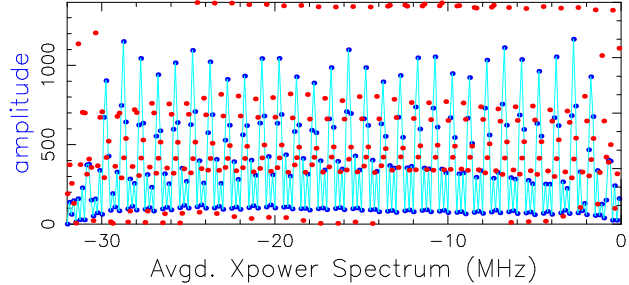
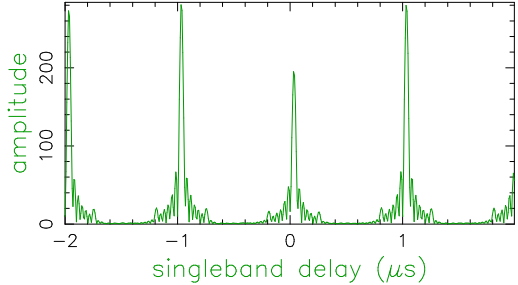
2017:272:123705

2017:188:152524

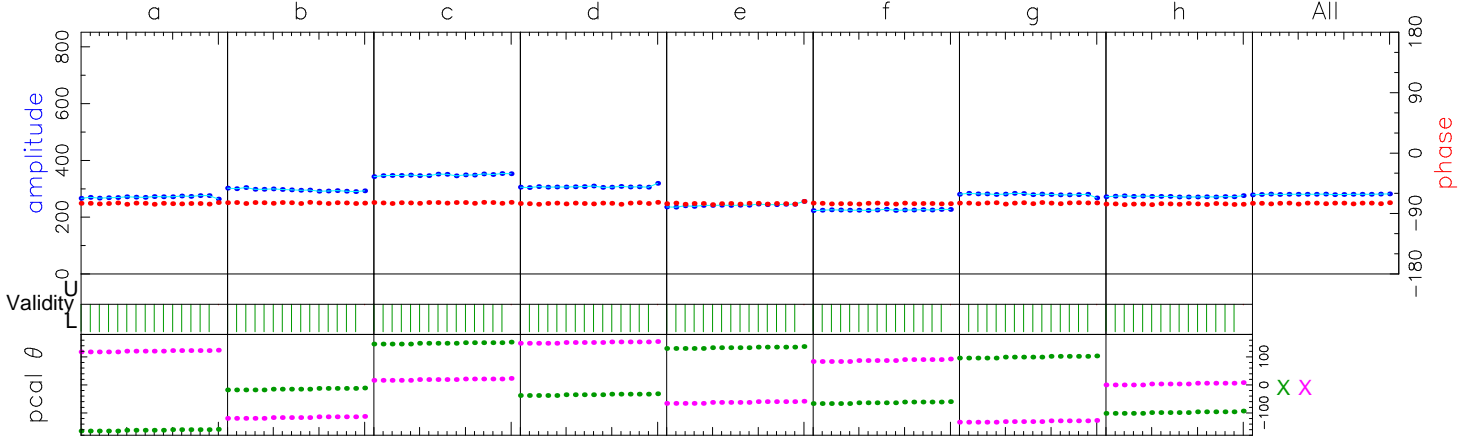
RA & Dec (J2000)

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
	-75.1	-74.2	-74.0	-75.0	-75.4	-75.2	-74.4	-75.9	Phase	-74.9
	271.4	296.4	348.5	306.7	241.9	225.3	281.1	272.7	Ampl.	280.5
	133.5	133.5	261.4	261.7	261.1	260.4	133.4	133.3	Sbd box	133.4
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
X	49.7	49.2	47.3	47.7	48.7	48.4	48.7	48.1	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)	
X:X	-161:121	-14:-116	150:20	-34:152	134:-62	-63:89	100:-130	-97:4	PC phase	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
X	40	42	44	40	37	37	38	37	PC amp	
X	54	55	62	60	52	48	59	58		
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(model)	2.06250000000E-06		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		2.06250E-06 +/- 1.0E-06	
Sband delay (usec)	-9.65935000000E-01		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-9.65935E-01 +/- 8.1E-06	
Phase delay (usec)	-2.41334529444E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-2.41335E-06 +/- 1.7E-09	
Delay rate (us/s)	-8.00872835322E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-8.00873E-10 +/- 1.9E-10	
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-74.9 +/- 0.1	

ph/seg (deg) 0.5 0.1 Theor. Amplitude 283.799 +/- 0.134 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5

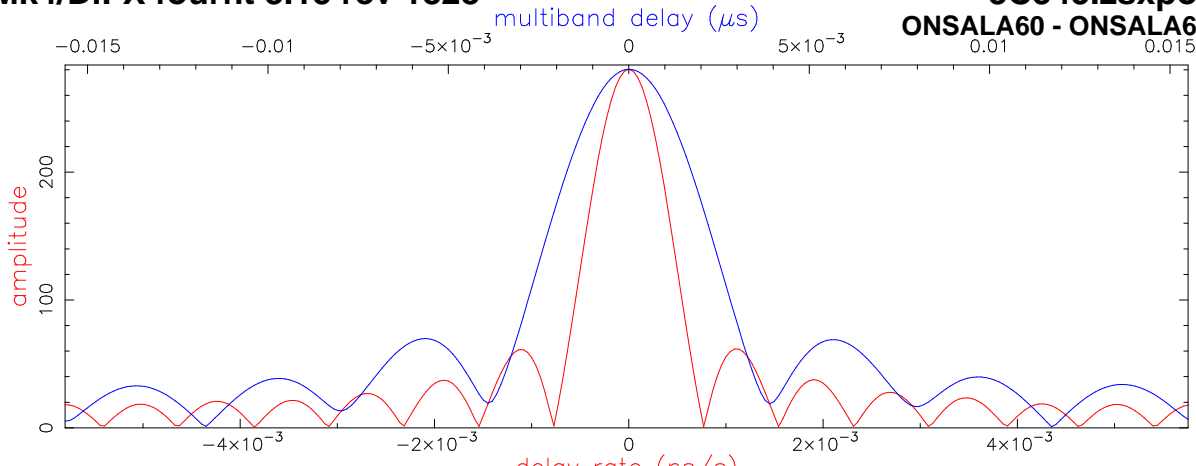
amp/seg (%) 1.2 0.2 Search (64X32) 280.475 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000

ph/frq (deg) 0.7 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016

amp/frq (%) 12.7 0.1 Inc. seg. avg. 280.484 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.006 0.006

X: az 115.4 el 62.4 pa -39.0 X: az 115.4 el 62.4 pa -39.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

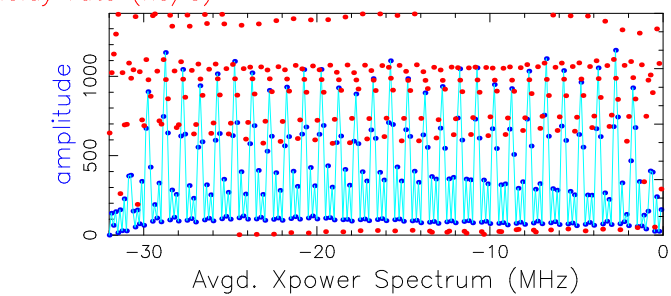
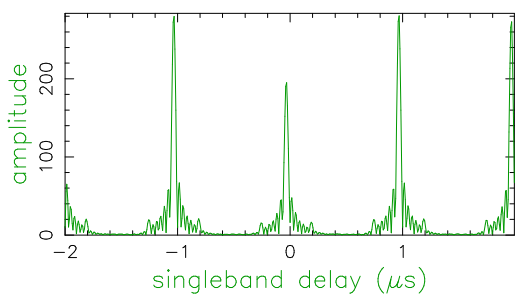
Control file: ../cf_1234 Input file: /Exps/f172a/1234/No0006/XX.zsxpoh Output file: /Exps/f172a/1234/No0006/XX.W.79.zsxpoh



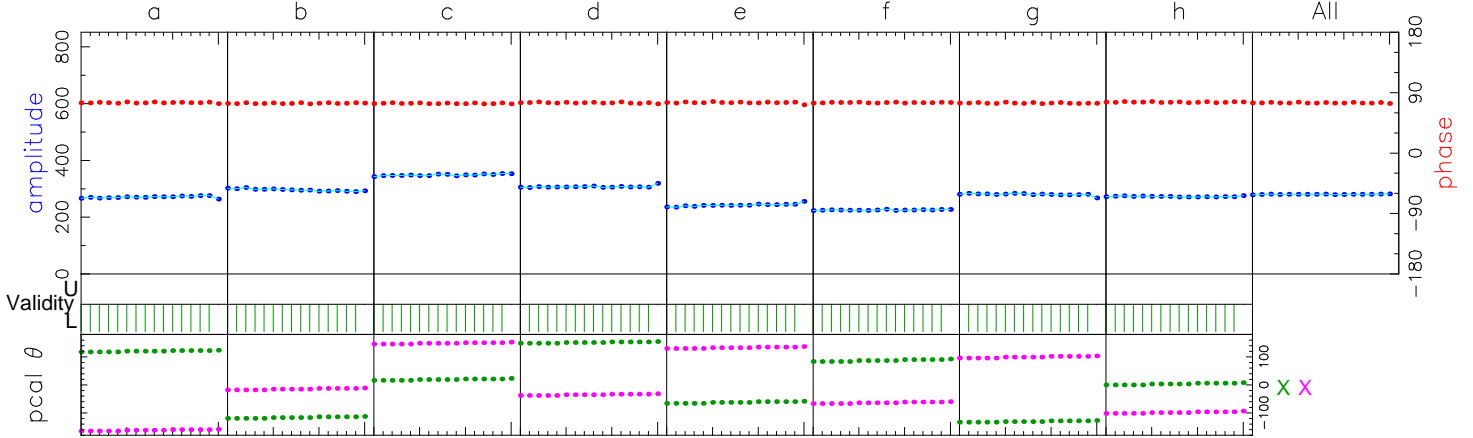
Fringe quality 9

SNR 2125.4
 Int time 15.000
 Amp 283.799
 Phase 74.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.965935
 MBD -0.000002
 Fringe rate (Hz) 0.000069
 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
 2017:272:123705
 2017:188:152524
 RA & Dec (J2000)
 16h42m58.8100s
 +39°48'36.994"

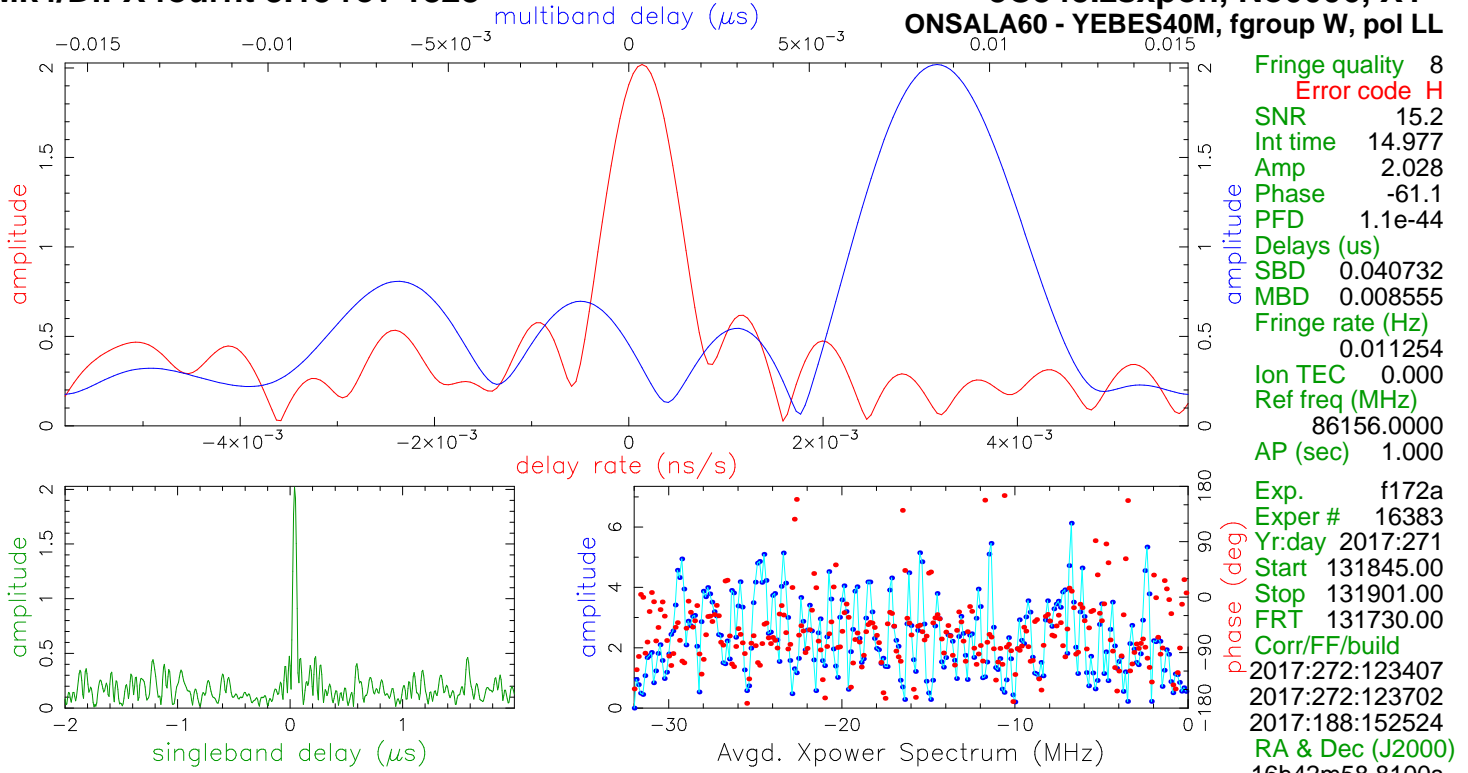


Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



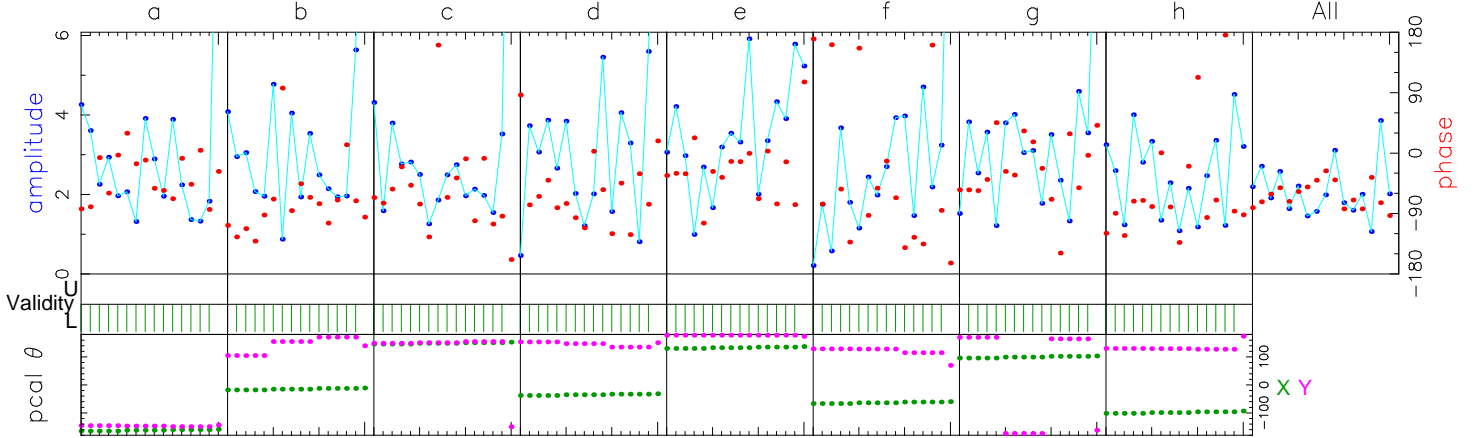
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	75.1	74.2	74.0	75.0	75.4	75.2	74.4	75.9	Phase	74.9
	271.4	296.4	348.5	306.7	241.9	225.3	281.1	272.7	Ampl.	280.5
	380.5	380.5	252.6	252.3	252.9	253.6	380.6	380.7	Sbd box	380.6
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
X	84.4	84.0	81.7	81.5	82.1	81.5	83.2	81.9	PC R delays (ns)	
X	49.7	49.2	47.3	47.7	48.7	48.4	48.7	48.1	PC L delays (ns)	
X:X	121:-161	-116:-14	20:150	152:-34	-62:134	89:-63	-130:100	4:-97	PC phase	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
X	54	55	62	60	52	48	59	58	PC amp	
X	40	42	44	40	37	37	38	37		
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(model)	-2.06250000000E-06		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-2.06250E-06	+/- 1.0E-06
Sband delay (usec)	9.65935000000E-01		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		9.65935E-01	+/- 8.1E-06
Phase delay (usec)	2.41334529421E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		2.41335E-06	+/- 1.7E-09
Delay rate (us/s)	8.00872835322E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		8.00873E-10	+/- 1.9E-10
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		74.9	+/- 0.1

ph/seg (deg) 0.5 0.1 Theor. Amplitude 283.799 +/- 0.134 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
 amp/seg (%) 1.2 0.2 Search (64X32) 280.475 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 ph/frq (deg) 0.7 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016
 amp/frq (%) 12.7 0.1 Inc. seg. avg. 280.484 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.006 0.006
 X: az 115.4 el 62.4 pa -39.0 X: az 115.4 el 62.4 pa -39.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/f172a/1234/No0006/XX.zsxpoh Output file: /Exps/f172a/1234/No0006/XX.W.80.zsxpoh



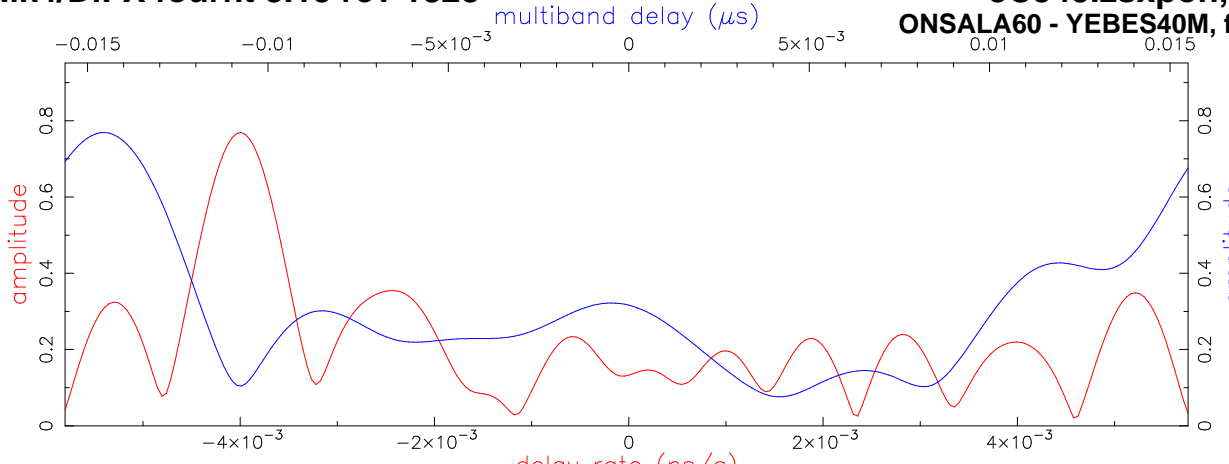
Fringe quality 8
 Error code H
 SNR 15.2
 Int time 14.977
 Amp 2.028
 Phase -61.1
 PFD 1.1e-44
 Delays (us)
 SBD 0.040732
 MBD 0.008555
 Fringe rate (Hz)
 0.011254
 Ion TEC 0.000
 Ref freq (MHz)
 86156.0000
 AP (sec) 1.000
 Exp. f172a
 Exper # 16383
 Yr:day 2017:271
 Start 131845.00
 Stop 131901.00
 FRT 131730.00
 Corr/FF/build
 2017:272:123407
 2017:272:123702
 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

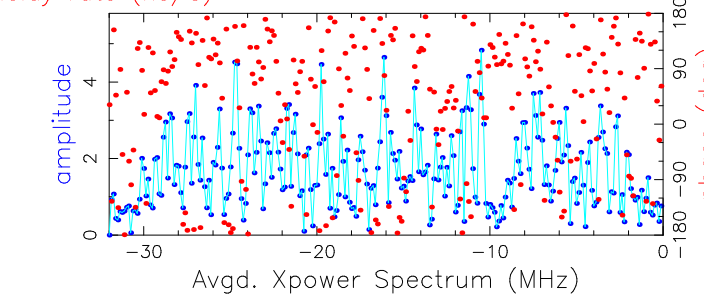
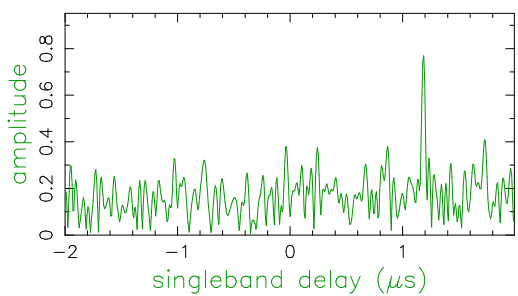


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-42.9	-84.0	-63.8	-68.7	-33.8	-100.7	-31.0	-83.8	Phase	-61.1
	2.1	2.4	1.9	2.5	2.9	1.6	2.3	1.9	Ampl.	2.2
	262.5	262.1	262.0	262.0	261.9	262.3	262.7	261.3	Sbd box	262.2
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
X	49.7	49.2	47.3	47.7	48.7	48.4	48.7	48.1	PC L delays (ns)	
Y	349.0	660.6	552.4	250.3	438.6	546.2	721.5	607.6	PC phase	
X:Y	-161:-146	-14:141	150:-176	-34:148	134:176	-63:87	100:-172	-97:154	PC delays (ns)	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	40	42	44	40	37	37	38	37	PC amp	
Y	1	0	0	0	1	0	0	0		
X	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)	1.62885332574E+03			Apriori delay (usec)	1.62884477062E+03			Resid mbdelay (usec)	8.55512E-03	+/- 1.4E-04
Sband delay (usec)	1.62888550312E+03			Apriori clock (usec)	2.1000004E+00			Resid sbdelay (usec)	4.07325E-02	+/- 1.1E-03
Phase delay (usec)	1.62884476865E+03			Apriori clockrate (us/s)	0.0000000E+00			Resid phdelay (usec)	-1.97108E-06	+/- 2.4E-07
Delay rate (us/s)	-3.22819918810E-01			Apriori rate (us/s)	-3.22820049433E-01			Resid rate (us/s)	1.30624E-07	+/- 2.6E-08
Total phase (deg)		-40.5		Apriori accel (us/s/s)	5.27348084586E-06			Resid phase (deg)	-61.1	+/- 7.6

RMS Theor. Amplitude 2.028 +/- 0.134 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
 ph/seg (deg) 17.9 15.1 Search (64X32) 1.992 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 amp/seg (%) 34.2 26.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016
 ph/frq (deg) 27.9 10.7 Inc. seg. avg. 2.045 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 (%) 20.7 18.6 Inc. frq. avg. 2.165 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 X: az 115.4 el 62.4 pa -39.0 Y: az 75.1 el 53.8 pa -73.2 u,v (fr/asec) 2417.820 1629.625 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/f172a/1234/No0006/XY.zsxph Output file: /Exps/f172a/1234/No0006/XY.W.57.zsxph

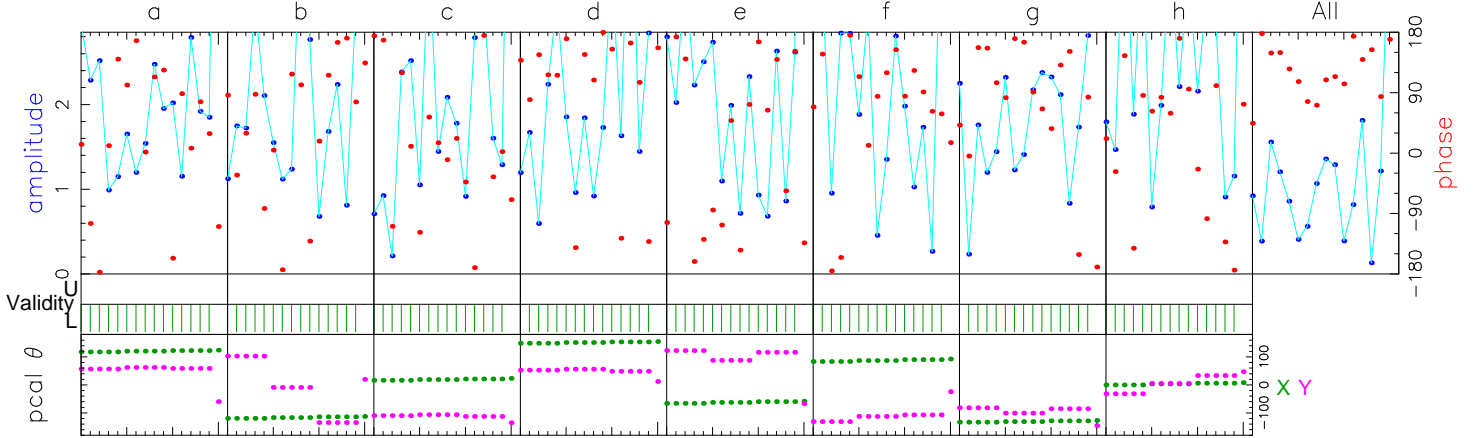


Fringe quality 0
 SNR 5.8
 Int time 14.977
 Amp 0.951
 Phase 118.8
 PFD 5.0e-02
 Delays (us)
 SBD 1.185107
 MBD -0.014581
 Fringe rate (Hz)
 -0.345507
 Ion TEC 0.000
 Ref freq (MHz)
 86156.000
 AP (sec) 1.000



Exp. f172a
 Exper # 16383
 Yr:day 2017:271
 Start 131845.00
 Stop 131901.00
 FRT 131730.00
 Corr/FF/build
 2017:272:123407
 2017:272:123702
 2017:188:152524
 RA & Dec (J2000)
 16h42m58.8100s
 +39°48'36.994"

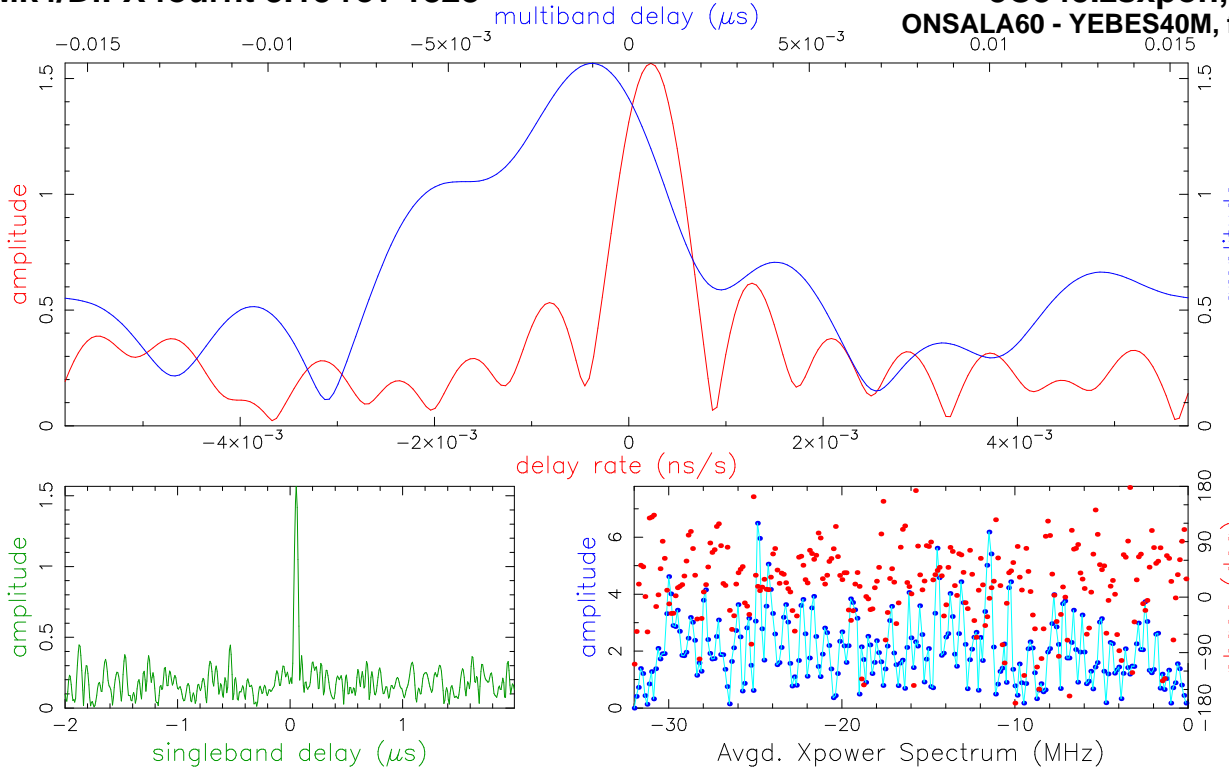
Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	84.4	100.0	43.8	154.3	-178.5	110.7	103.9	101.4	Phase	118.8
	0.7	0.9	0.4	1.9	1.0	1.6	1.4	1.1	Ampl.	1.0
	366.7	306.3	382.2	409.1	247.7	408.7	458.4	402.7	Sbd box	408.7
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
X	84.4	84.0	81.7	81.5	82.1	81.5	83.2	81.9	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)	
X:Y	121:-24	-116:22	20:-124	152:37	-62:-62	89:-45	-130:-121	4:35	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
X	54	55	62	60	52	48	59	58	PC amp	
Y	0	0	0	0	0	0	0	0		
X	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)	1.62883018929E+03		Apriori delay (usec)		1.62884477062E+03		Resid mbdelay (usec)		-1.45813E-02	+/- 3.7E-04
Sband delay (usec)	1.63002987712E+03		Apriori clock (usec)		2.1000004E+00		Resid sbdelay (usec)		1.18511E+00	+/- 3.0E-03
Phase delay (usec)	1.6288447445E+03		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		3.83123E-06	+/- 6.4E-07
Delay rate (us/s)	-3.22824059682E-01		Apriori rate (us/s)		-3.22820049433E-01		Resid rate (us/s)		-4.01025E-06	+/- 6.9E-08
Total phase (deg)	139.5		Apriori accel (us/s/s)		5.27348084586E-06		Resid phase (deg)		118.8	+/- 19.8

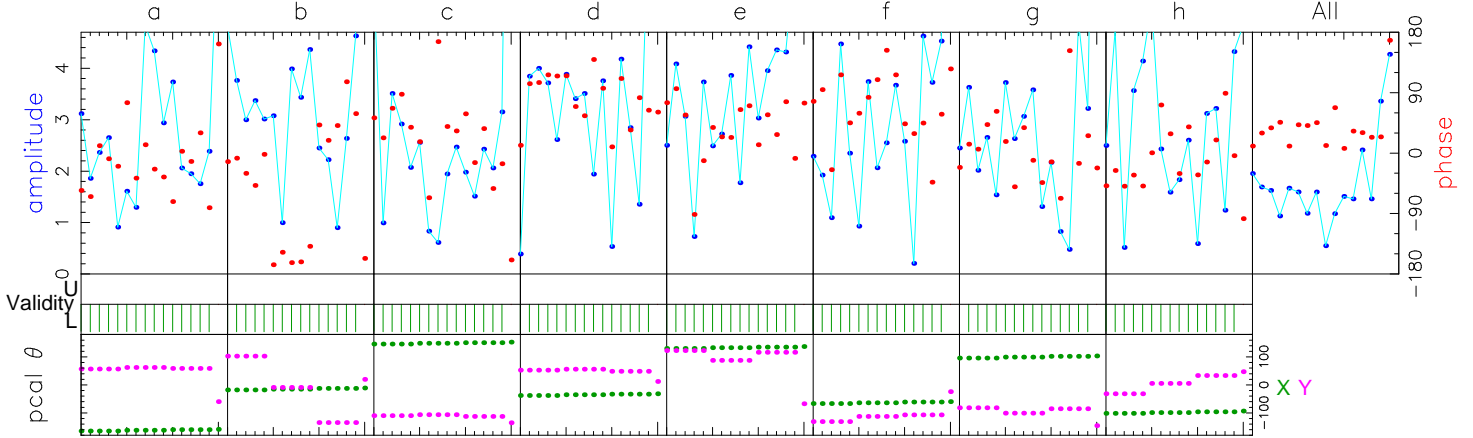
	RMS	Theor.	Amplitude	0.951 +/- 0.164	Pcal mode: MULTITONE, MULTITONE	PC period (AP's) 5, 5	sb window (us)	-2.000	2.000
ph/seg (deg)	37.7	39.5	Search (64X32)	0.764	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
amp/seg (%)	65.8	68.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: disabled	dr window (ns/s)	-0.006	0.006
ph/frq (deg)	46.5	27.9	Inc. seg. avg.	0.929	Sample rate(MSamp/s): 64	Data rate(Mb/s): 1024	ion window (TEC)	0.00	0.00
amp/frq (%)	51.4	48.8	Inc. frq. avg.	1.012	nlags: 256	t_cohere infinite			

X: az 115.4 el 62.4 pa -39.0 Y: az 75.1 el 53.8 pa -73.2 u,v (fr/asec) 2417.820 1629.625 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/f172a/1234/No0006/XY.zsxpoh Output file: /Exps/f172a/1234/No0006/XY.W.58.zsxpoh



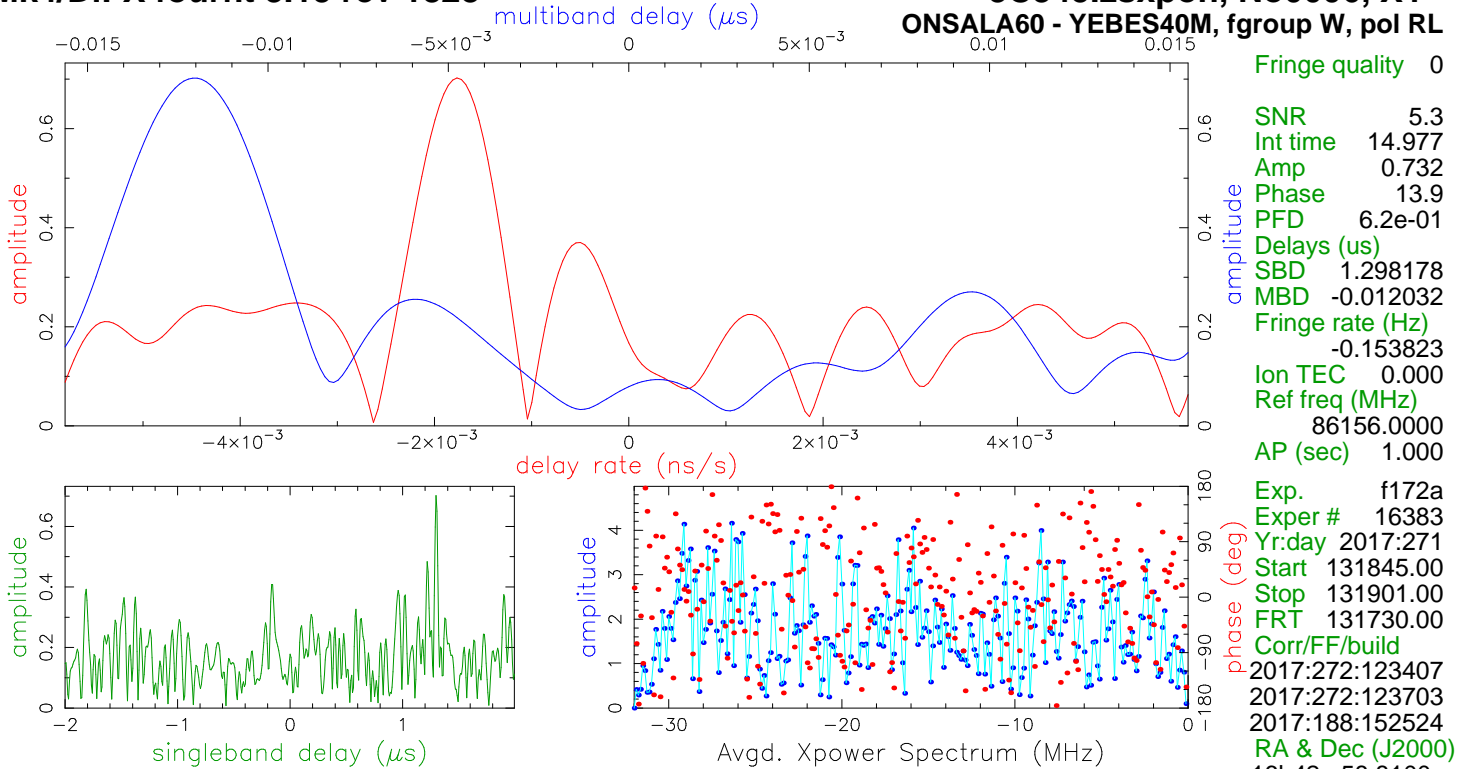
Fringe quality 9
 Error code H
 SNR 11.7
 Int time 14.977
 Amp 1.567
 Phase 29.7
 PFD 1.5e-24
 Delays (us)
 SBD 0.054147
 MBD -0.001026
 Fringe rate (Hz)
 0.018902
 Ion TEC 0.000
 Ref freq (MHz)
 86156.0000
 AP (sec) 1.000
 Exp. f172a
 Exper # 16383
 Yr:day 2017:271
 Start 131845.00
 Stop 131901.00
 FRT 131730.00
 Corr/FF/build
 2017:272:123407
 2017:272:123702
 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

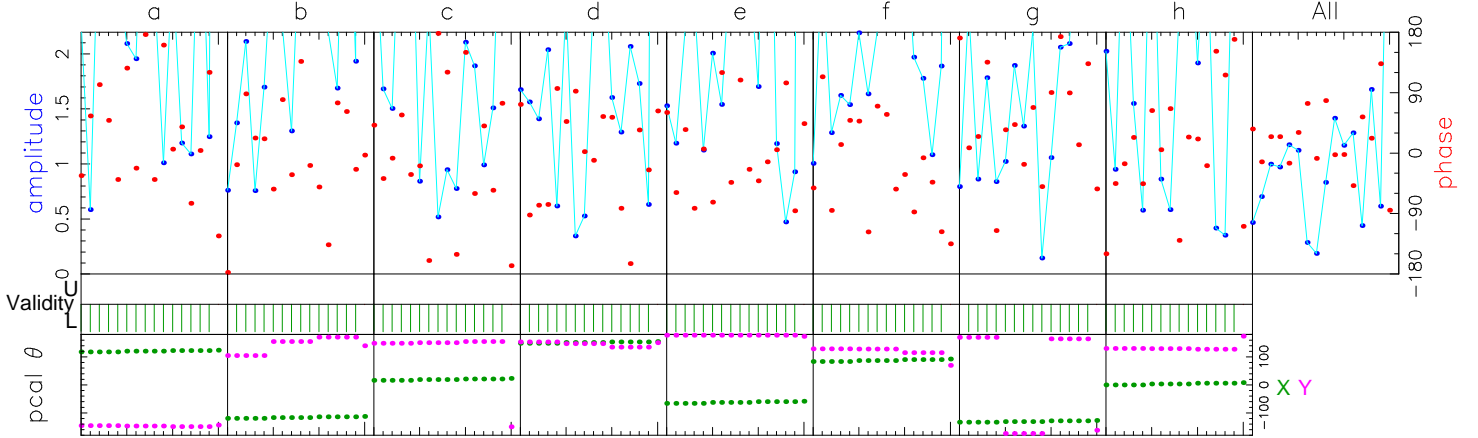


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-22.4	-19.1	34.9	90.0	40.1	74.1	3.0	-7.7	Phase	29.7
	2.0	0.6	1.8	2.7	2.8	1.9	2.2	2.3	Ampl.	2.0
	264.1	485.2	264.2	263.4	263.2	264.1	264.3	263.7	Sbd box	263.9
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
X	49.7	49.2	47.3	47.7	48.7	48.4	48.7	48.1	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)	
X:Y	-161:-24	-14:22	150:-124	-34:37	134:-62	-63:-45	100:-121	-97:35	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
X	40	42	44	40	37	37	38	37	PC amp	
Y	0	0	0	0	0	0	0	0		
X	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)	1.62884374430E+03			Apriori delay (usec)	1.62884477062E+03			Resid mbdelay (usec)	-1.02632E-03	+/- 1.9E-04
Sband delay (usec)	1.62889891762E+03			Apriori clock (usec)	2.1000004E+00			Resid sbdelay (usec)	5.41470E-02	+/- 1.5E-03
Phase delay (usec)	1.62884477158E+03			Apriori clockrate (us/s)	0.0000000E+00			Resid phdelay (usec)	9.57286E-07	+/- 3.2E-07
Delay rate (us/s)	-3.22819830040E-01			Apriori rate (us/s)	-3.22820049433E-01			Resid rate (us/s)	2.19393E-07	+/- 3.4E-08
Total phase (deg)		50.4		Apriori accel (us/s/s)	5.27348084586E-06			Resid phase (deg)	29.7	+/- 9.8

ph/seg (deg) 16.9 19.6 Search (64X32) 1.558 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
 amp/seg (%) 39.7 34.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 ph/frq (deg) 46.4 13.8 Inc. seg. avg. 1.539 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016
 amp/frq (%) 50.8 24.1 Inc. frq. avg. 1.963 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.006 0.006
 X: az 115.4 el 62.4 pa -39.0 Y: az 75.1 el 53.8 pa -73.2 u,v (fr/asec) 2417.820 1629.625 ion window (TEC) 0.00 0.00
 Control file: ../cf_1234 Input file: /Exps/f172a/1234/No0006/XY.zsxpoh Output file: /Exps/f172a/1234/No0006/XY.W.59.zsxpoh simultaneous interpolator

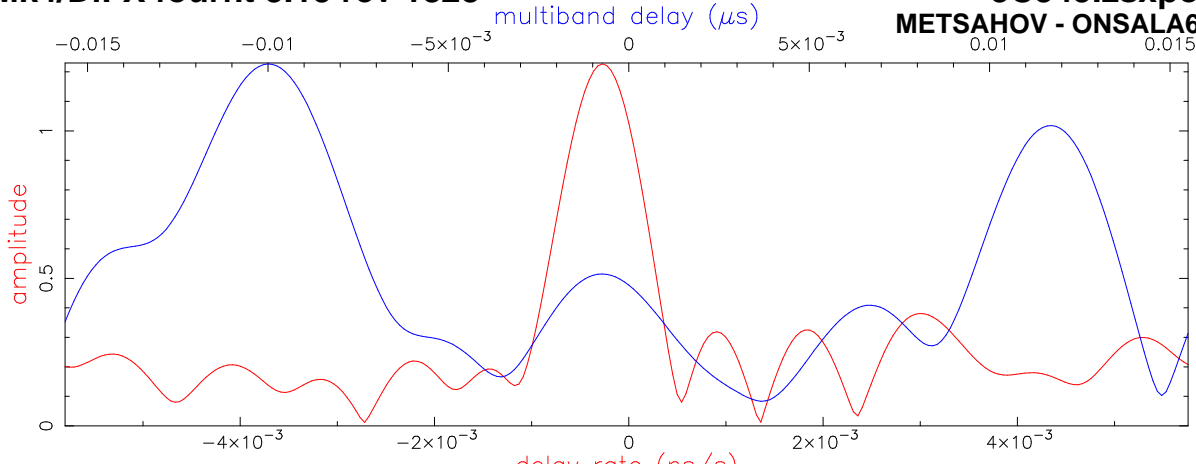


Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec

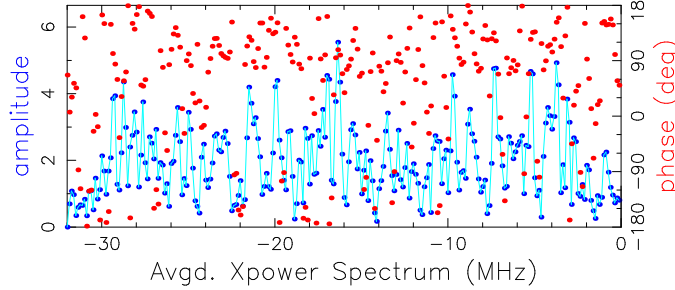
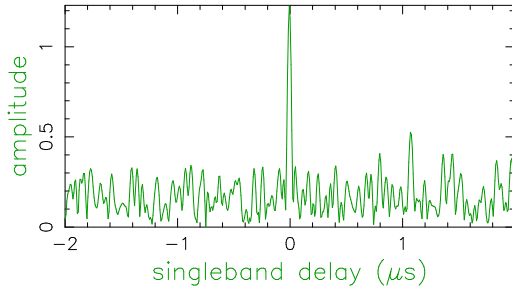


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
20.9	19.6	23.4	12.7	-14.3	-9.7	63.8	10.2	Phase	13.9	
0.7	0.9	0.7	0.6	1.1	0.8	0.8	0.7	Ampl.	0.7	
237.4	495.5	279.1	240.0	436.9	403.2	146.5	82.6	Sbd box	423.2	
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used		
X	84.4	84.0	81.7	81.5	82.1	81.5	83.2	PC R delays (ns)		
Y	349.0	660.6	552.4	250.3	438.6	546.2	721.5	PC L delays (ns)		
X:Y	121:-146	-116:141	20:-176	152:148	-62:176	89:87	-130:-172	4:154	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
X	54	55	62	60	52	48	59	58	PC amp	
Y	1	0	0	0	1	0	0	0		
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
Group delay (usec)(model)	1.62883273879E+03		Apriori delay (usec)	1.62884477062E+03	Resid mbdelay (usec)	-1.20318E-02	+/-	4.1E-04		
Sband delay (usec)	1.63014294862E+03		Apriori clock (usec)	2.1000004E+00	Resid sbdelay (usec)	1.29818E+00	+/-	3.3E-03		
Phase delay (usec)	1.62884477107E+03		Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.49170E-07	+/-	7.0E-07		
Delay rate (us/s)	-3.22821834834E-01		Apriori rate (us/s)	-3.22820049433E-01	Resid rate (us/s)	-1.78540E-06	+/-	7.6E-08		
Total phase (deg)		34.6	Apriori accel (us/s/s)	5.27348084586E-06	Resid phase (deg)	13.9	+/-	21.7		

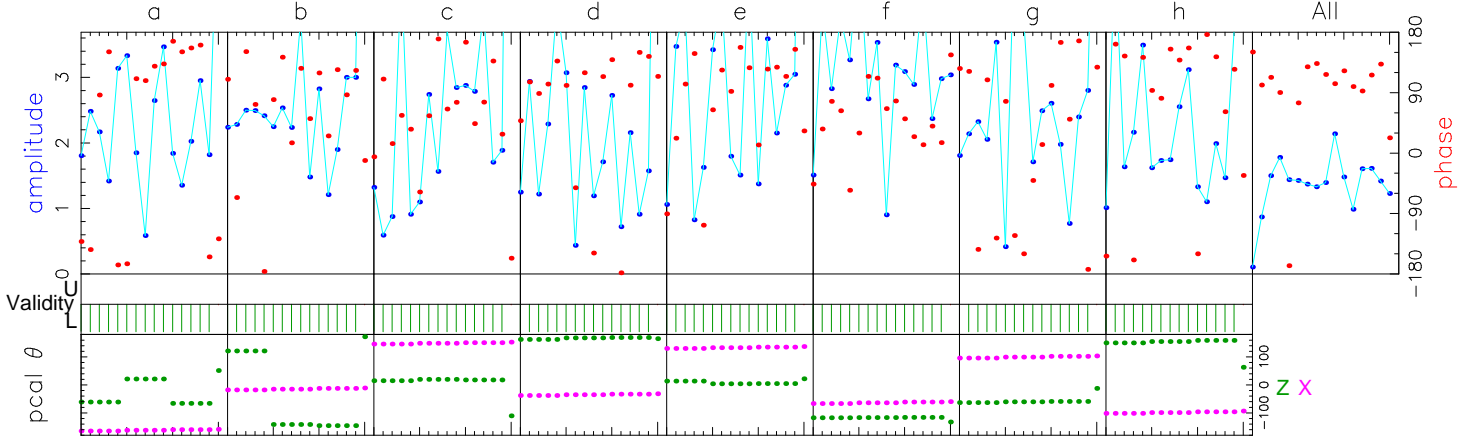
ph/seg (deg) 45.6 43.5 Search (64X32) 0.732 +/- 0.139 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
 amp/seg (%) 68.1 75.9 Interp. 0.684 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 ph/frq (deg) 25.9 30.7 Inc. seg. avg. 0.722 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016
 amp/frq (%) 23.0 53.7 Inc. frq. avg. 0.694 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.006 0.006
 X: az 115.4 el 62.4 pa -39.0 Y: az 75.1 el 53.8 pa -73.2 u,v (fr/asec) 2417.820 1629.625 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/f172a/1234/No0006/XY..zxpoh Output file: /Exps/f172a/1234/No0006/XY.W.60.zxpoh



Fringe quality 9
 Error code H
 SNR 9.2
 Int time 15.000
 Amp 1.230
 Phase 113.8
 PFD 4.2e-13
 Delays (us)
 SBD -0.006642
 MBD -0.009997
 Fringe rate (Hz)
 -0.022003
 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
 2017:272:123700
 2017:188:152524
 RA & Dec (J2000)
 16h42m58.8100s
 +39°48'36.994"

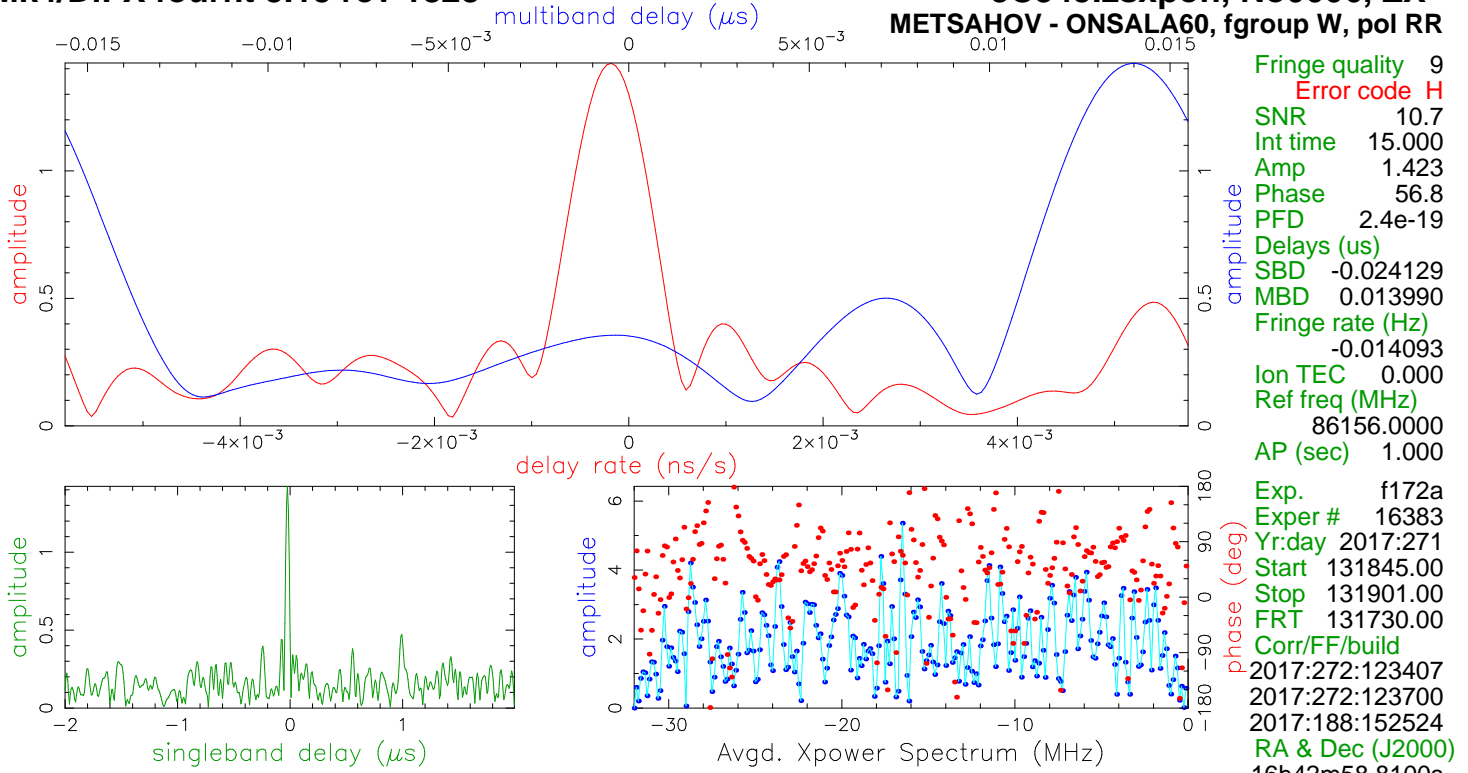


Amp. and Phase vs. time for each freq., 16 segs, 1 APs / seg (1.00 sec / seg.), time ticks 1 sec



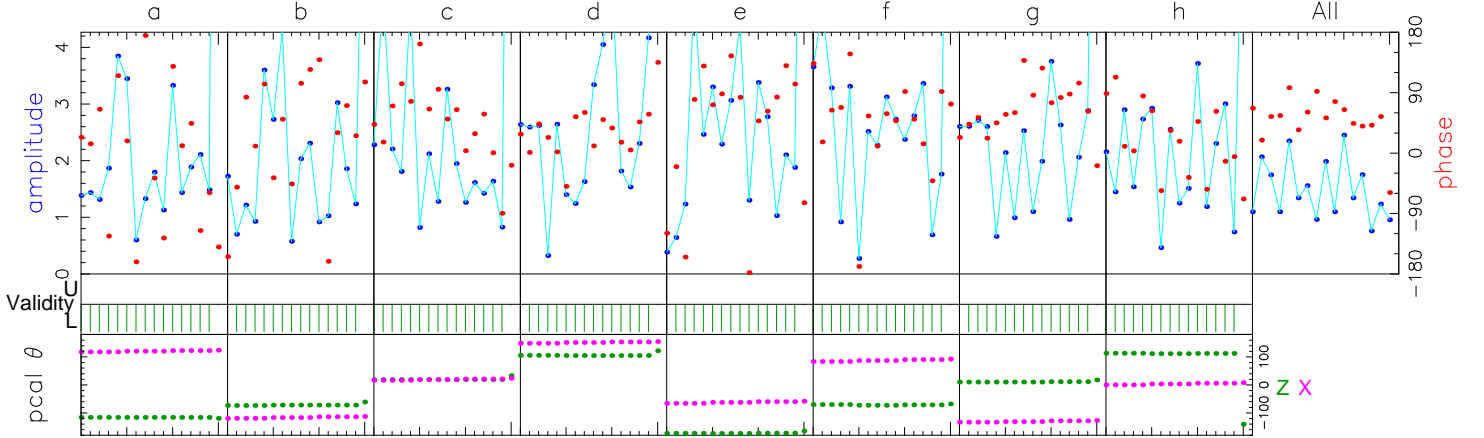
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	163.5	107.8	68.3	119.6	111.4	43.7	-174.8	146.5	Phase	113.8
	1.7	1.5	1.5	1.7	1.8	2.3	1.1	1.8	Ampl.	1.6
	256.5	255.9	256.6	256.5	255.9	256.4	349.7	255.9	Sbd box	256.1
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
Z	204.5	580.9	613.5	246.7	887.7	339.9	529.7	335.3	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)	
Z:X	-12:-161	179:-14	-19:150	166:-34	12:134	-123:-63	-42:100	119:-97	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z	2	0	0	0	1	1	1	0	PC amp	
X	40	42	44	40	37	37	38	37	Chan ids	
Z	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)	5.28425216592E+02		Apriori delay (usec)		5.28435213587E+02		Resid mbdelay (usec)		-9.99700E-03	+/- 2.4E-04
Sband delay (usec)	5.28428571587E+02		Apriori clock (usec)		-5.9200001E+00		Resid sbdelay (usec)		-6.64200E-03	+/- 1.9E-03
Phase delay (usec)	5.28435217256E+02		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		3.66867E-06	+/- 4.0E-07
Delay rate (us/s)	-1.42714051173E-01		Apriori rate (us/s)		-1.42713795787E-01		Resid rate (us/s)		-2.55386E-07	+/- 4.3E-08
Total phase (deg)	208.0		Apriori accel (us/s/s)		-9.93549310659E-07		Resid phase (deg)		113.8	+/- 12.4

ph/seg (deg) 28.0 Theor. 24.9 Amplitude 1.230 +/- 0.134 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
 amp/seg (%) 37.3 43.5 Search (64X32) 1.207 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 ph/frq (deg) 51.2 17.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016
 amp/frq (%) 45.1 30.7 Inc. seg. avg. 1.249 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.006 0.006
 Z: az 138.8 el 65.9 pa -24.7 X: az 115.4 el 62.4 pa -39.0 u,v (fr/asec) 1062.364 96.629 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/f172a/1234/No0006/ZX.zsxpoh Output file: /Exps/f172a/1234/No0006/ZX.W.41.zsxpoh



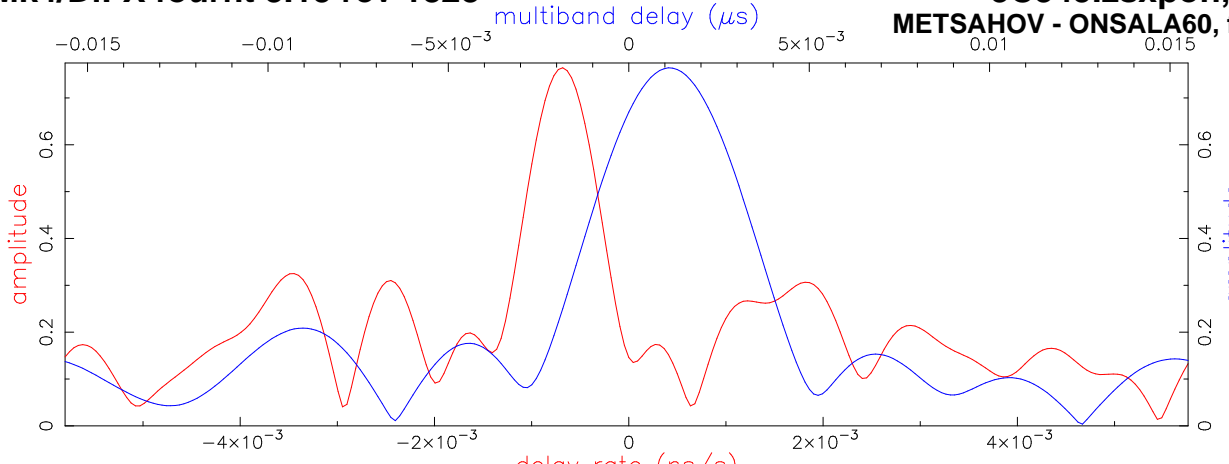
Fringe quality 9
 Error code H
 SNR 10.7
 Int time 15.000
 Amp 1.423
 Phase 56.8
 PFD 2.4e-19
 Delays (us)
 SBD -0.024129
 MBD 0.013990
 Fringe rate (Hz)
 -0.014093
 Ion TEC 0.000
 Ref freq (MHz)
 86156.000
 AP (sec) 1.000
 Exp. f172a
 Exper # 16383
 Yr:day 2017:271
 Start 131845.00
 Stop 131901.00
 FRT 131730.00
 Corr/FF/build
 2017:272:123407
 2017:272:123700
 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

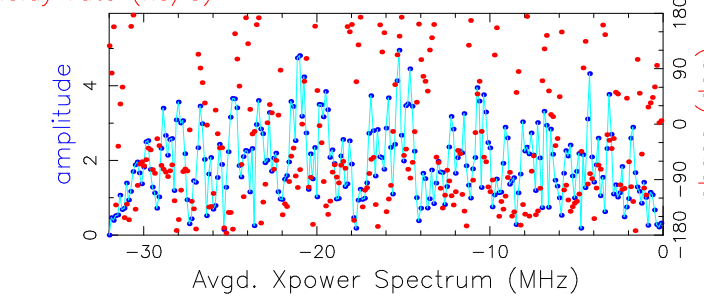
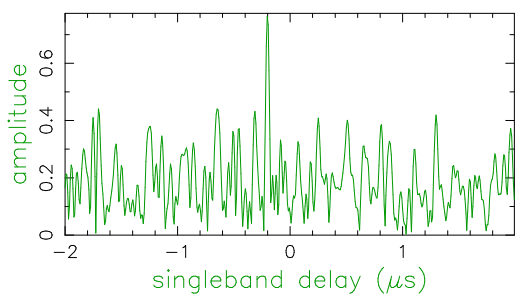


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	52.5	67.7	51.7	31.3	93.4	60.5	68.6	35.1	Phase	56.8
	0.3	0.9	1.7	2.3	1.8	1.8	1.8	1.5	Ampl.	1.5
	5.4	185.4	253.8	254.4	253.8	254.0	253.6	254.2	Sbd box	253.9
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used	
Z	304.2	307.7	298.7	298.8	310.7	305.4	308.5	351.1	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)	
Z:X	-117:121	-70:-116	22:20	110:152	-171:-62	-70:89	12:-130	133:4	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z	3	2	1	1	2	1	1	1	PC amp	
X	54	55	62	60	52	48	59	58	Chan ids	
Z	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)	5.28449203530E+02		Apriori delay (usec)		5.28435213587E+02		Resid mbdelay (usec)		1.39899E-02	+/- 2.0E-04
Sband delay (usec)	5.28411084587E+02		Apriori clock (usec)		-5.9200001E+00		Resid sbdelay (usec)		-2.41290E-02	+/- 1.6E-03
Phase delay (usec)	5.28435215420E+02		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		1.83246E-06	+/- 3.5E-07
Delay rate (us/s)	-1.42713959363E-01		Apriori rate (us/s)		-1.42713795787E-01		Resid rate (us/s)		-1.63575E-07	+/- 3.8E-08
Total phase (deg)	151.1		Apriori accel (us/s/s)		-9.93549310659E-07		Resid phase (deg)		56.8	+/- 10.8

RMS Theor. Amplitude 1.423 +/- 0.134
 ph/seg (deg) 20.4 21.5 Search (64X32) 1.410 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
 amp/seg (%) 35.8 37.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 ph/frq (deg) 21.5 15.2 Inc. seg. avg. 1.424 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016
 amp/frq (%) 40.8 26.6 Inc. frq. avg. 1.463 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.006 0.006
 Z: az 138.8 el 65.9 pa -24.7 X: az 115.4 el 62.4 pa -39.0 u,v (fr/asec) 1062.364 96.629 simultaneous interpolator
 Control file: ../cf_1234 Input file: /Exps/f172a/1234/No0006/ZX.zsxph Output file: /Exps/f172a/1234/No0006/ZX.W.42.zsxph

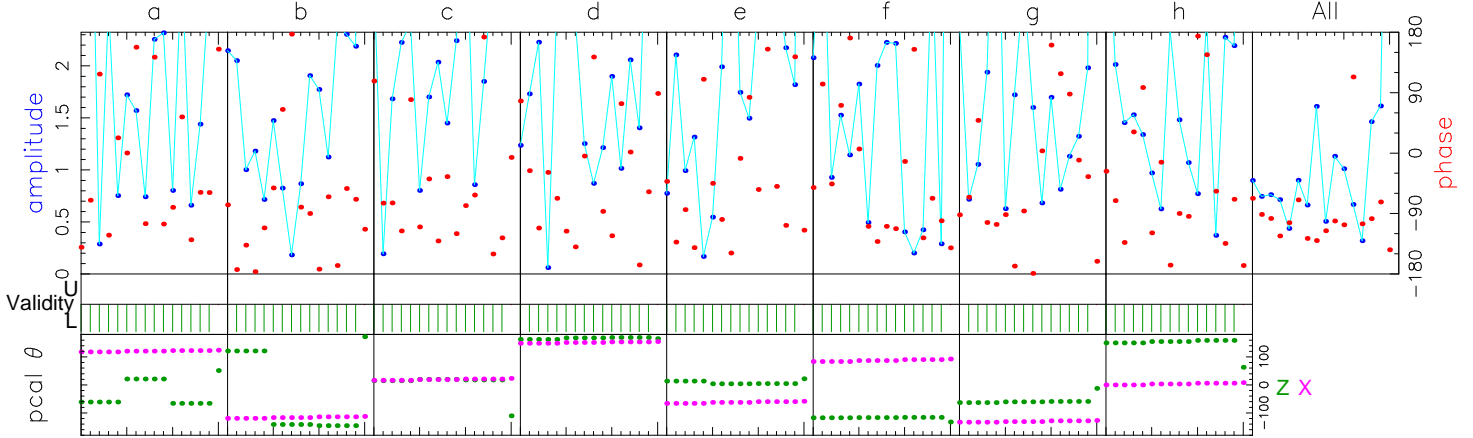


Fringe quality 0
 SNR 5.8
 Int time 15.000
 Amp 0.775
 Phase -101.4
 PFD 6.0e-02
 Delays (us)
 SBD -0.200866
 MBD 0.001112
 Fringe rate (Hz)
 -0.059441
 Ion TEC 0.000
 Ref freq (MHz)
 86156.000
 AP (sec) 1.000



Exp. f172a
 Exper # 16383
 Yr:day 2017:271
 Start 131845.00
 Stop 131901.00
 FRT 131730.00
 Corr/FF/build
 2017:272:123407
 2017:272:123700
 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

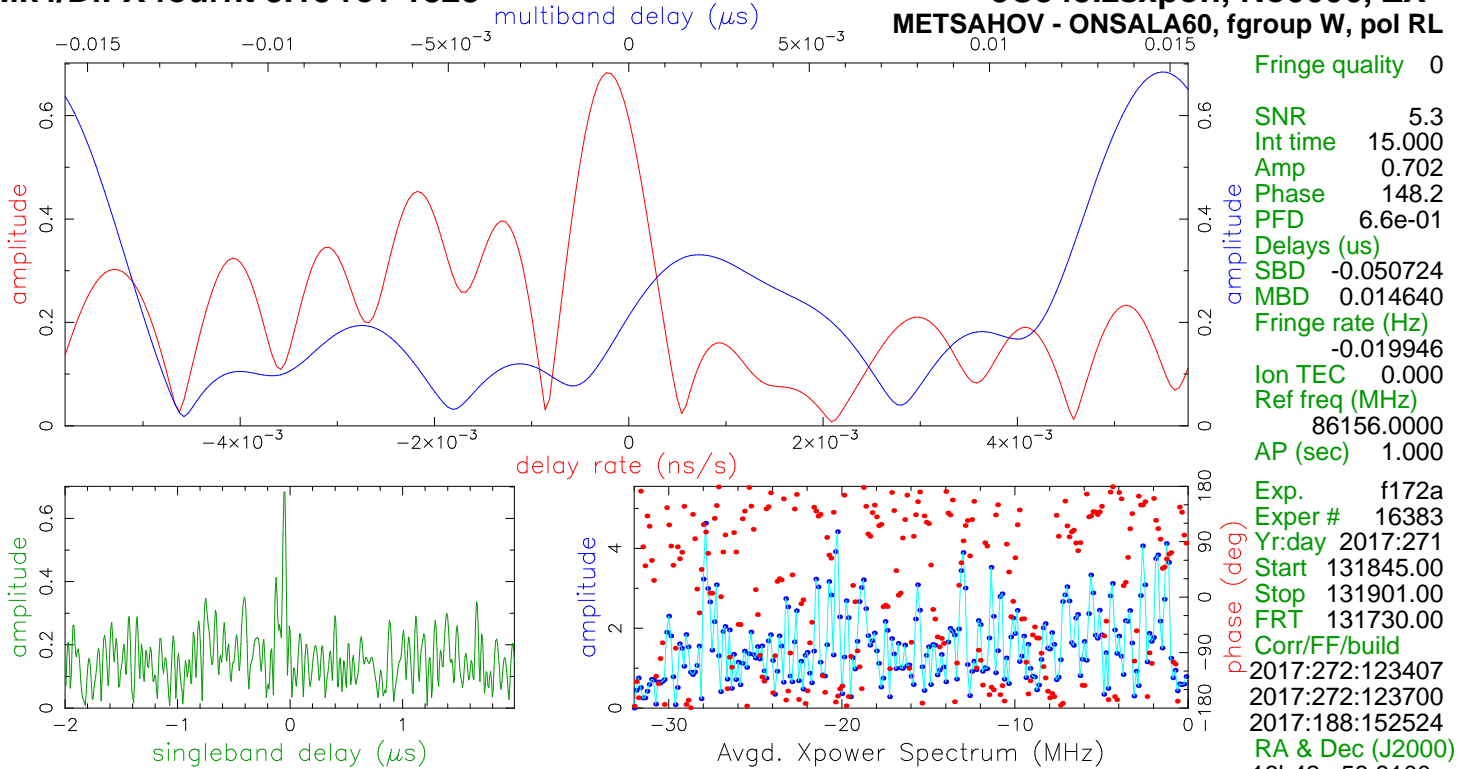


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	86412.00	86444.00
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16	0/16
Z	204.5	580.9	613.5	246.7	887.7	339.9	529.7	335.3	119.4	119.4
X	84.4	84.0	81.7	81.5	82.1	81.5	83.2	81.9	81.9	81.9
Z:X	-12:121	179:-116	-19:20	166:152	12:-62	-123:89	-42:-130	119:4	119:4	119:4
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
Z	2	0	0	0	1	1	1	0	0	0
X	54	55	62	60	52	48	59	58	58	58
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	W07LL	W07LL
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	W07LR	W07LR

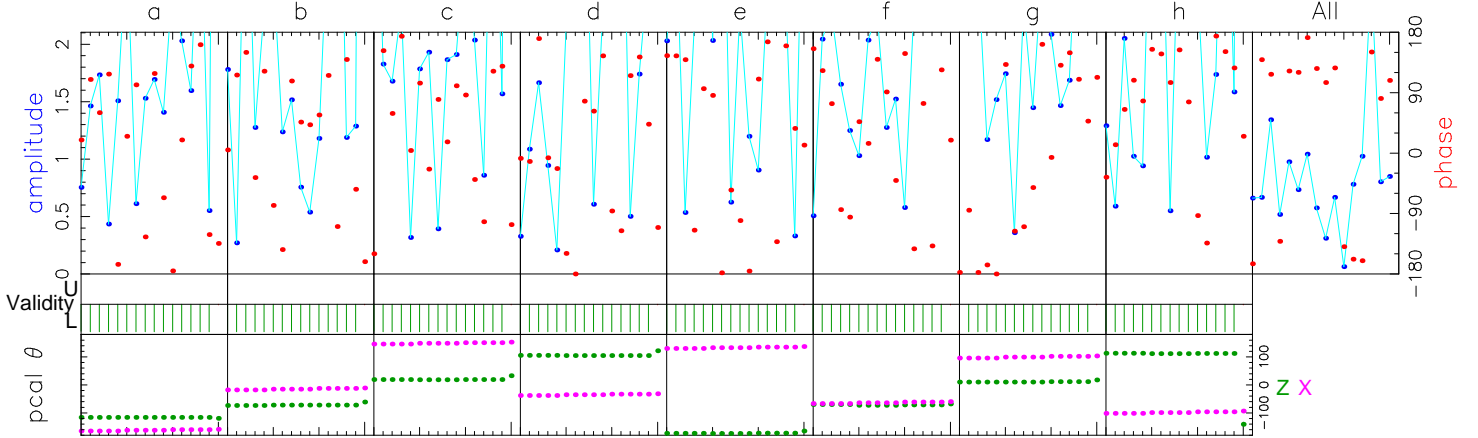
Group delay (usec)(model)	5.28436325982E+02	Apriori delay (usec)	5.28435213587E+02	Resid mbdelay (usec)	1.11239E-03	+/-	3.8E-04
Sband delay (usec)	5.28234348087E+02	Apriori clock (usec)	-5.9200001E+00	Resid sbdelay (usec)	-2.00866E-01	+/-	3.0E-03
Phase delay (usec)	5.28435210317E+02	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.27004E-06	+/-	6.4E-07
Delay rate (us/s)	-1.42714485710E-01	Apriori rate (us/s)	-1.42713795787E-01	Resid rate (us/s)	-6.89923E-07	+/-	6.9E-08
Total phase (deg)	-7.2	Apriori accel (us/s/s)	-9.93549310659E-07	Resid phase (deg)	-101.4	+/-	19.9

ph/seg (deg)	42.0	Theor.	39.7	Amplitude	0.775 +/- 0.134	Pcal mode:	MULTITONE, MULTITONE	PC period (AP's)	5, 5
amp/seg (%)	58.6	Search (64X32)	0.761	Apriori clock (usec)	0.761	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-2.000 2.000
ph/frq (deg)	12.4	Inc. seg. avg.	0.733	Apriori rate (us/s)	0.699	Bits/sample:	2x2	SampCntNorm:	disabled
amp/frq (%)	21.1	Inc. frq. avg.	0.699	Apriori accel (us/s/s)	-9.93549310659E-07	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016

Z: az 138.8 el 65.9 pa -24.7 X: az 115.4 el 62.4 pa -39.0 u,v (fr/asec) 1062.364 96.629 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	
127.0	163.0	119.6	173.2	162.3	128.8	167.5	140.2	Phase	148.2	
0.5	0.3	0.7	0.4	1.3	0.4	0.8	1.2	Ampl.	0.6	
203.1	4.2	80.8	30.1	4.1	56.9	471.7	247.0	Sbd box	250.5	
U/L	0/16	0/16	0/16	0/16	0/16	0/16	0/16	APs used		
Z	304.2	307.7	298.7	298.8	310.7	305.4	308.5	PC R delays (ns)		
X	49.7	49.2	47.3	47.7	48.7	48.4	48.1	PC L delays (ns)		
Z:X	-117:-161	-70:-14	22:150	110:-34	-171:134	-70:-63	12:100	133:-97	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	3	2	1	1	2	1	1	1	PC amp	
X	40	42	44	40	37	37	38	37	Chan ids	
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(model)	5.28449853342E+02		Apriori delay (usec)	5.28435213587E+02		Resid mbdelay (usec)	1.46398E-02	+/-	4.1E-04	
Sband delay (usec)	5.28384489087E+02		Apriori clock (usec)	-5.9200001E+00		Resid sbdelay (usec)	-5.07245E-02	+/-	3.3E-03	
Phase delay (usec)	5.28435218367E+02		Apriori clockrate (us/s)	0.0000000E+00		Resid phdelay (usec)	4.77962E-06	+/-	7.0E-07	
Delay rate (us/s)	-1.42714027298E-01		Apriori rate (us/s)	-1.42713795787E-01		Resid rate (us/s)	-2.31510E-07	+/-	7.6E-08	
Total phase (deg)		242.5	Apriori accel (us/s/s)	-9.93549310659E-07		Resid phase (deg)	148.2	+/-	21.8	

ph/seg (deg) 44.6 43.6 Search (64X32) 0.681 Pcal mode: MULTITONE, MULTITONE PC period (AP's) 5, 5
 amp/seg (%) 81.9 76.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 ph/frq (deg) 22.8 30.9 Inc. seg. avg. 0.661 Bits/sample: 2x2 SampCntNorm: disabled mb window (us) -0.016 0.016
 amp/frq (%) 48.6 53.9 Inc. frq. avg. 0.629 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.006 0.006
 Z: az 138.8 el 65.9 pa -24.7 X: az 115.4 el 62.4 pa -39.0 u,v (fr/asec) 1062.364 96.629 ion window (TEC) 0.00 0.00
 simultaneous interpolator