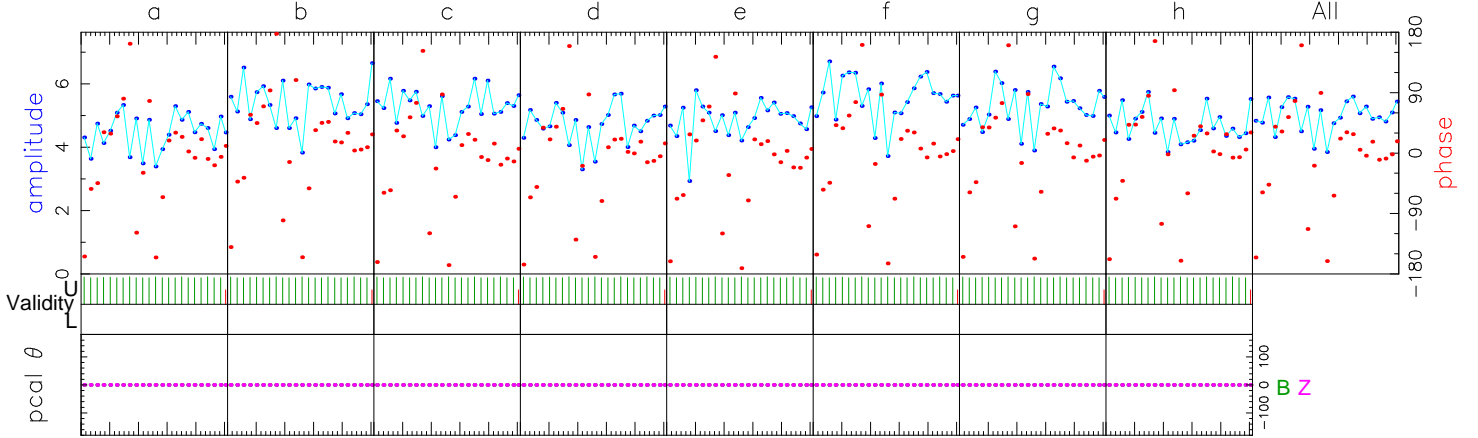
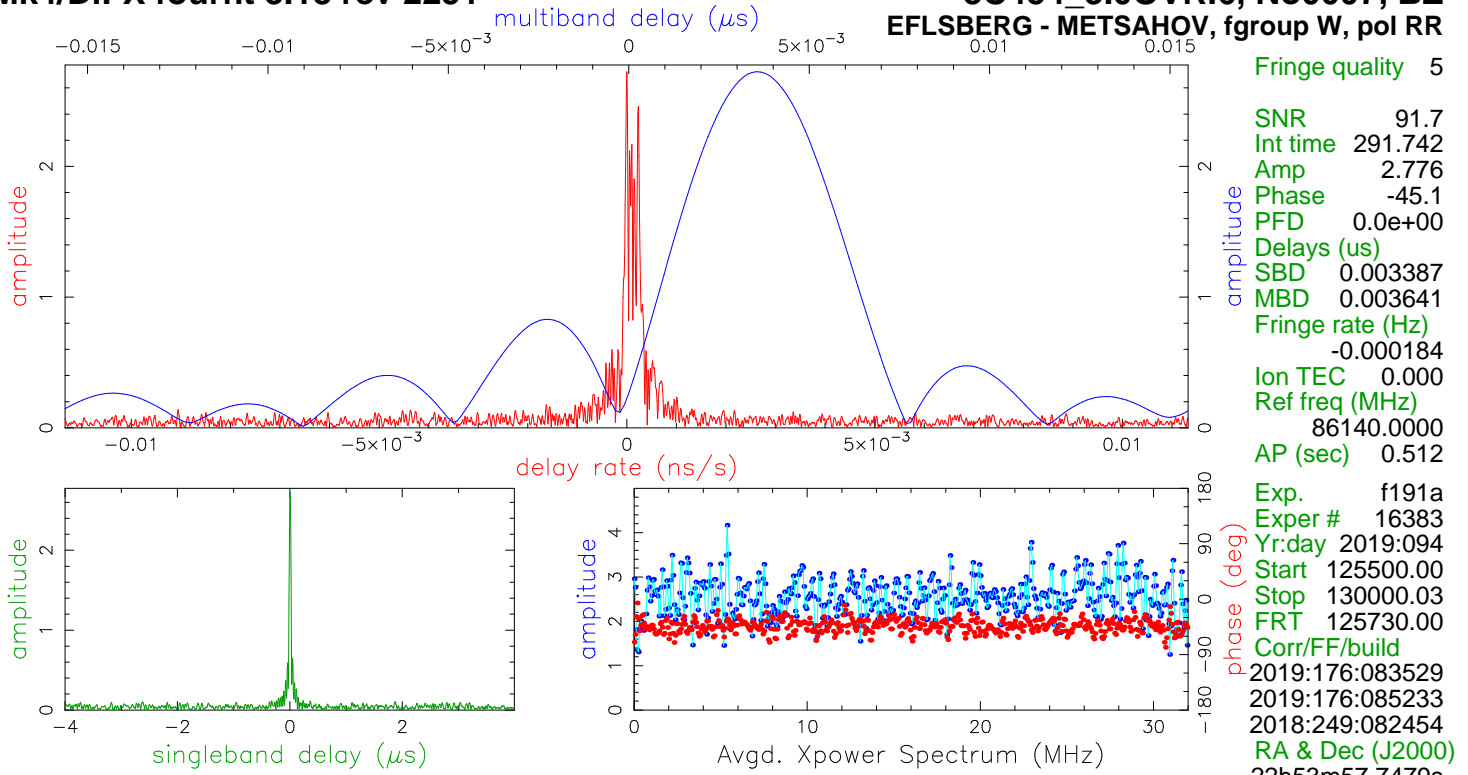


Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



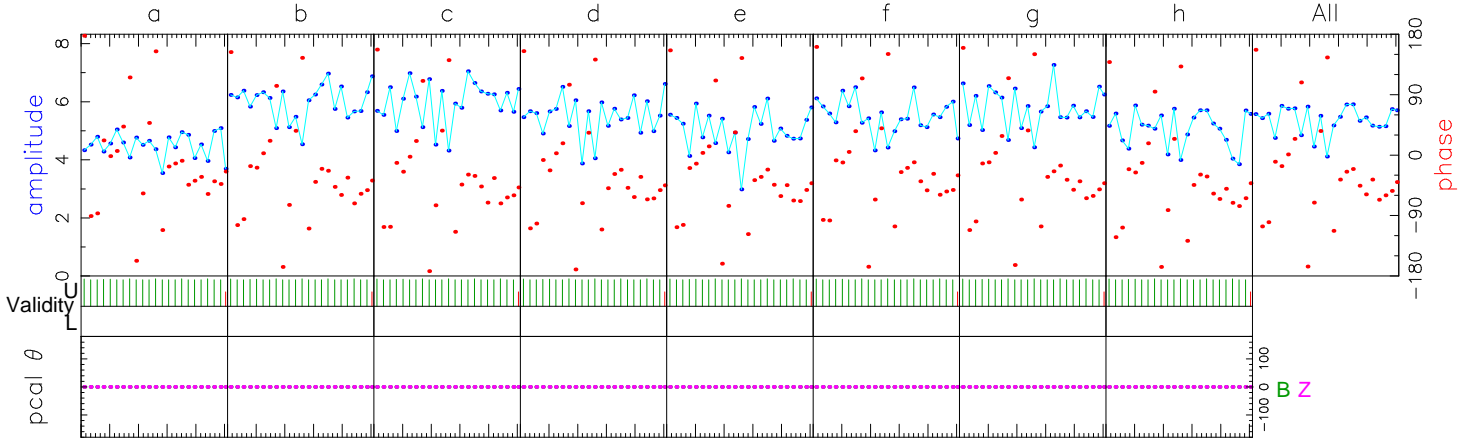
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	6.5	19.5	2.8	2.7	-2.5	10.5	11.8	15.0	Phase	8.4
	2.3	2.7	2.6	2.5	2.4	2.9	2.8	2.2	Ampl.	2.5
	513.4	512.5	512.8	512.6	513.0	512.9	512.8	512.8	Sbd box	512.8
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		3.92081726089E+03		Apriori delay (usec)		3.92081904539E+03		Resid mbdelay (usec)	-1.78450E-03	+/- 2.6E-05
Sband delay (usec)		3.92081745939E+03		Apriori clock (usec)		1.9753950E+01		Resid sbdelay (usec)	-1.58600E-03	+/- 2.1E-04
Phase delay (usec)		3.92081904566E+03		Apriori clockrate (us/s)		-5.9400000E-07		Resid phdelay (usec)	2.70664E-07	+/- 4.4E-08
Delay rate (us/s)		-4.21077174986E-02		Apriori rate (us/s)		-4.21077149300E-02		Resid rate (us/s)	-2.56852E-09	+/- 2.5E-10
Total phase (deg)			213.6	Apriori accel (us/s/s)		-2.37817958873E-05		Resid phase (deg)	8.4	+/- 1.4

ph/seg (deg) 74.6 3.3 Theor. Amplitude 2.544 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 97.8 5.7 Search (2048X32) 2.509 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 7.8 1.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 8.6 3.4 Inc. seg. avg. 4.977 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 247.2 el 37.9 pa 37.5 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) 220.706 -1364.214 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//BZ..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//BZ.W.15.0OVRI6



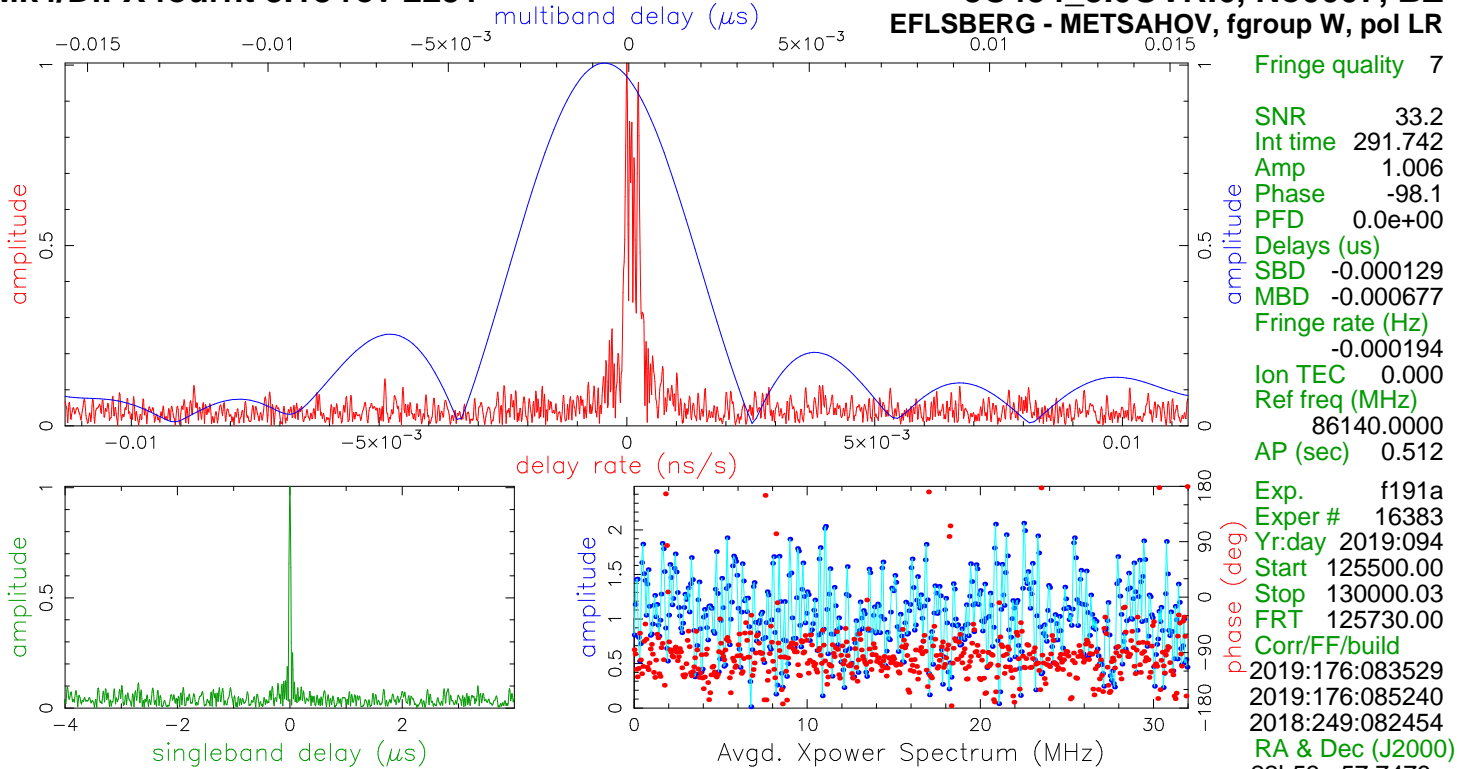
Fringe quality 5
 SNR 91.7
 Int time 291.742
 Amp 2.776
 Phase -45.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.003387
 MBD 0.003641
 Fringe rate (Hz)
 -0.000184
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085233
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

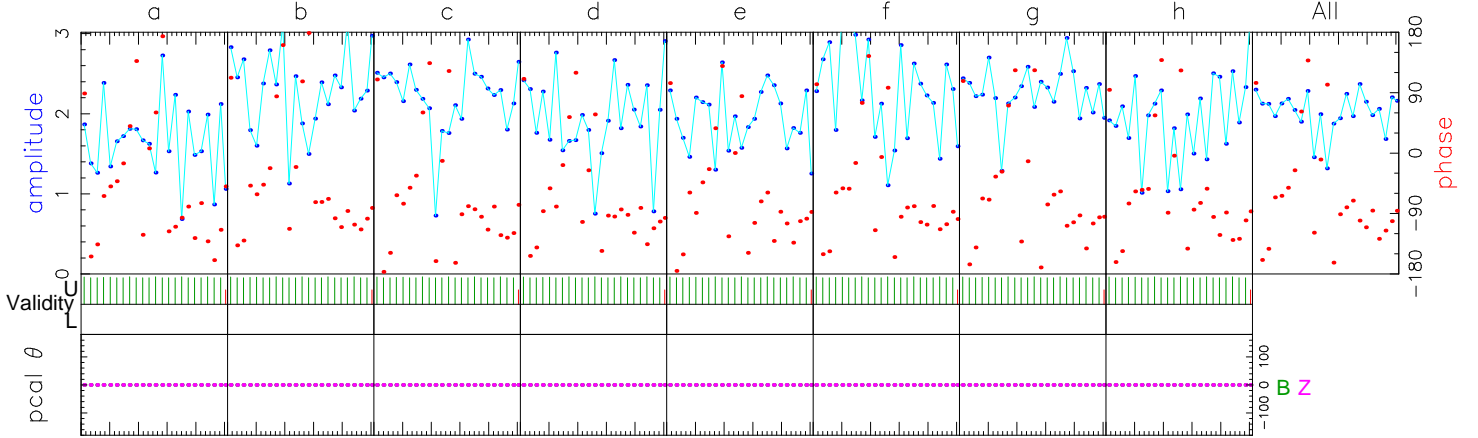


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-31.3	-46.0	-50.7	-47.8	-49.2	-36.7	-43.5	-52.6	Phase	-45.1
	2.2	3.1	3.1	2.8	2.6	2.7	2.9	2.5	Ampl.	2.7
	512.7	513.6	513.6	513.4	513.5	513.8	513.1	513.4	Sbd box	513.4
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.92082268595E+03		Apriori delay (usec)		3.92081904539E+03		Resid mbdelay (usec)		3.64056E-03	+/- 2.4E-05
Sband delay (usec)	3.92082243189E+03		Apriori clock (usec)		1.9753950E+01		Resid sbdelay (usec)		3.38650E-03	+/- 1.9E-04
Phase delay (usec)	3.92081904394E+03		Apriori clockrate (us/s)		-5.9400000E-07		Resid phdelay (usec)		-1.45353E-06	+/- 4.0E-08
Delay rate (us/s)	-4.21077170706E-02		Apriori rate (us/s)		-4.21077149300E-02		Resid rate (us/s)		-2.14055E-09	+/- 2.3E-10
Total phase (deg)	160.1		Apriori accel (us/s/s)		-2.37817958873E-05		Resid phase (deg)		-45.1	+/- 1.3

RMS Theor. Amplitude 2.776 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 73.9 3.0 Search (2048X32) 2.682 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 95.0 5.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 7.9 1.8 Inc. seg. avg. 5.363 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 10.3 3.1 Inc. frq. avg. 2.739 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00
 B: az 247.2 el 37.9 pa 37.5 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) 220.706 -1364.214 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//BZ..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//BZ.W.33.0OVRI6

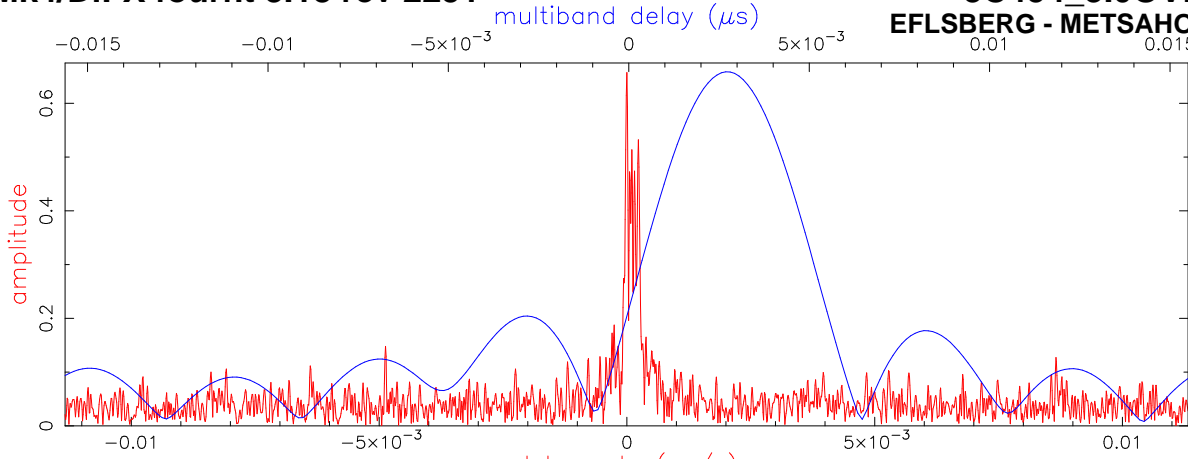


Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

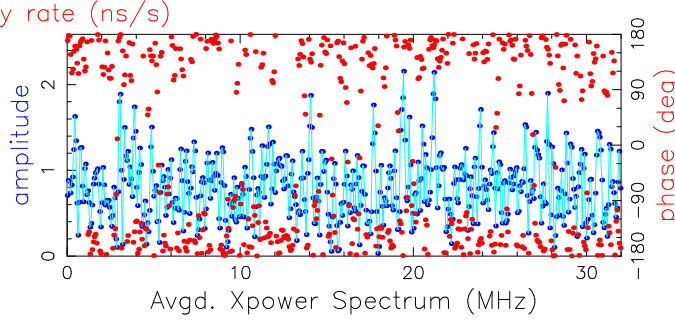
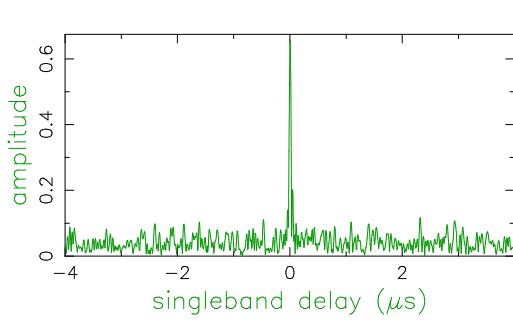


86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
-100.5	-93.8	-102.9	-99.2	-97.9	-91.8	-100.6	-99.5	Phase	-98.1
0.7	1.1	1.1	1.1	0.9	1.2	1.1	1.0	Ampl.	1.0
512.6	513.3	512.8	513.1	513.4	513.0	512.9	512.6	Sbd box	513.0
U/L 586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
B 0	0	0	0	0	0	0	0	PC freqs	
Z 0	0	0	0	0	0	0	0	PC freqs	
B:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
B W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	3.92081836883E+03	Apriori delay (usec)	3.92081904539E+03	Resid mbdelay (usec)	-6.76562E-04	+/-	6.5E-05		
Sband delay (usec)	3.92081891689E+03	Apriori clock (usec)	1.9753950E+01	Resid sbdelay (usec)	-1.28500E-04	+/-	5.2E-04		
Phase delay (usec)	3.92081904223E+03	Apriori clockrate (us/s)	-5.9400000E-07	Resid phdelay (usec)	-3.16209E-06	+/-	1.1E-07		
Delay rate (us/s)	-4.21077171847E-02	Apriori rate (us/s)	-4.21077149300E-02	Resid rate (us/s)	-2.25463E-09	+/-	6.4E-10		
Total phase (deg)	107.2	Apriori accel (us/s/s)	-2.37817958873E-05	Resid phase (deg)	-98.1	+/-	3.4		

ph/seg (deg) 74.0 8.3 Theor. Amplitude 1.006 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 103.6 14.4 Search (2048X32) 0.993 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 4.0 4.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 15.2 8.5 Inc. seg. avg. 1.997 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 247.2 el 37.9 pa 37.5 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) 220.706 -1364.214 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//BZ..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//BZ.W.52.0OVRI6

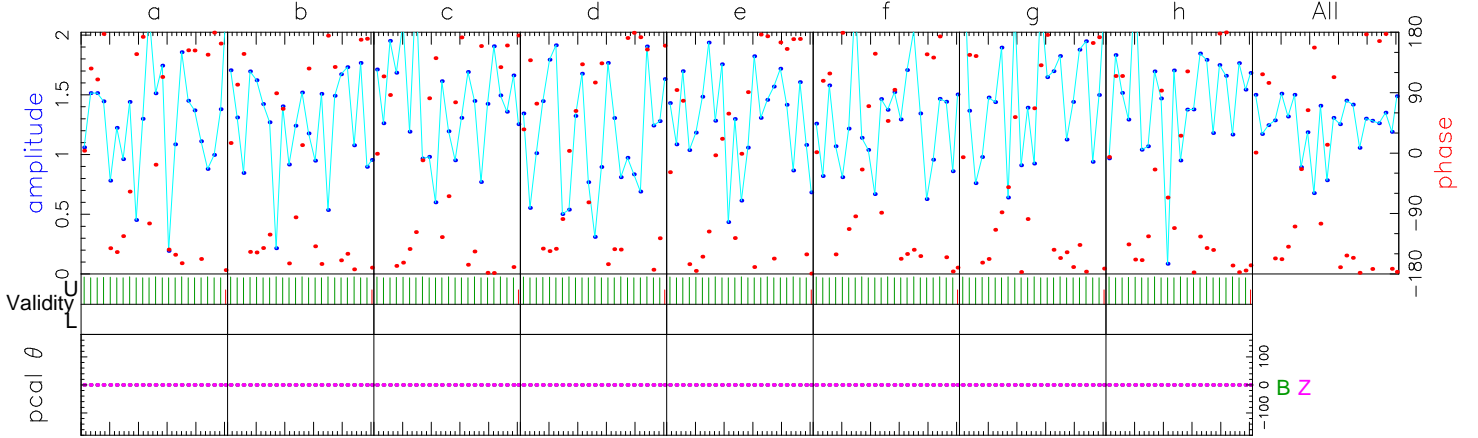


Fringe quality 9
 SNR 22.3
 Int time 291.742
 Amp 0.675
 Phase -173.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.003872
 MBD 0.002574
 Fringe rate (Hz)
 -0.000413
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085248
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

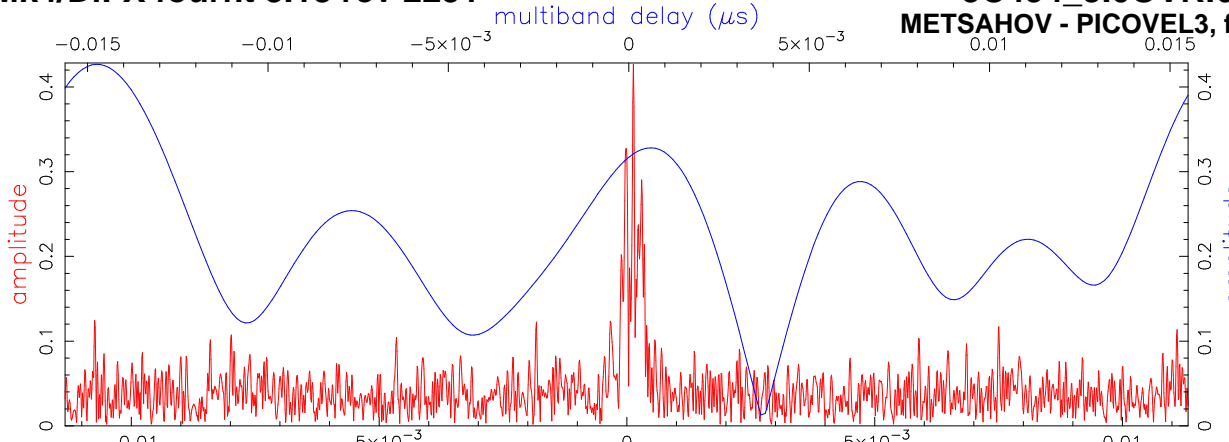
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



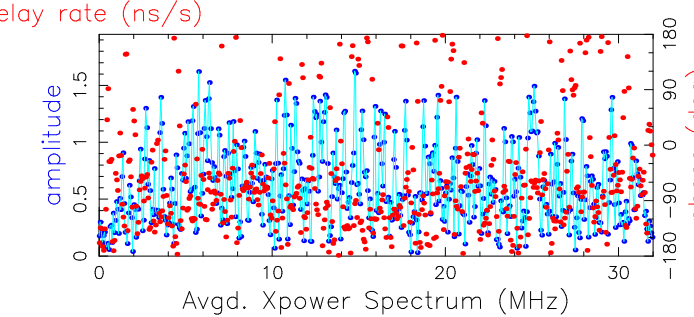
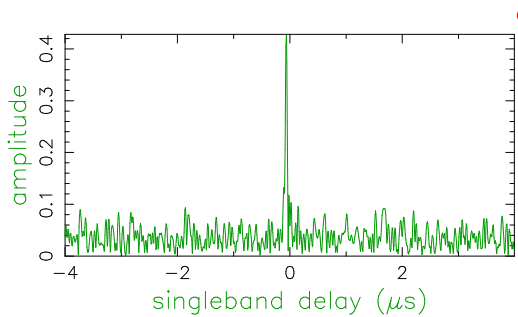
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-178.1	-174.9	-178.1	-179.0	177.8	-167.0	-164.8	-168.7	Phase	-173.9
	0.7	0.6	0.7	0.6	0.6	0.5	0.7	0.8	Ampl.	0.7
	512.8	513.5	513.5	513.9	513.4	513.5	513.2	513.4	Sbd box	513.5
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	3.92082161980E+03	Apriori delay (usec)	3.92081904539E+03	Resid mbdelay (usec)	2.57440E-03	+/-	9.7E-05
Sband delay (usec)	3.92082291689E+03	Apriori clock (usec)	1.9753950E+01	Resid sbdelay (usec)	3.87150E-03	+/-	7.7E-04
Phase delay (usec)	3.92081903979E+03	Apriori clockrate (us/s)	-5.9400000E-07	Resid phdelay (usec)	-5.60679E-06	+/-	1.7E-07
Delay rate (us/s)	-4.21077197220E-02	Apriori rate (us/s)	-4.21077149300E-02	Resid rate (us/s)	-4.79198E-09	+/-	9.6E-10
Total phase (deg)	31.3	Apriori accel (us/s/s)	-2.37817958873E-05	Resid phase (deg)	-173.9	+/-	5.1

ph/seg (deg)	RMS 75.8	Theor. 12.3	Amplitude Search (2048X32)	0.675 +/- 0.030	0.644	0.000	1.221	0.655	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	91.0	21.5	Interp.	0.000	0.000	1.221	0.655	0.655	PCal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
ph/frq (deg)	6.9	7.3	Inc. seg. avg.	1.221	1.221	1.221	1.221	1.221	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	13.1	12.7	Inc. frq. avg.	0.655	0.655	0.655	0.655	0.655	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00

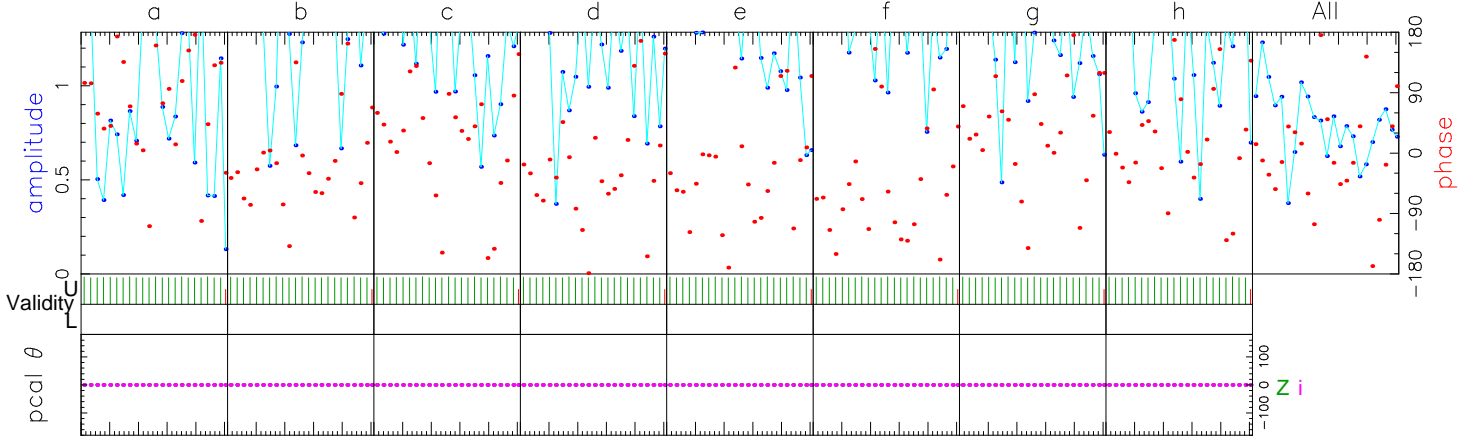


Fringe quality 7
 SNR 14.1
 Int time 291.861
 Amp 0.428
 Phase -16.8
 PFD 2.3e-36
 Delays (us)
 SBD -0.064030
 MBD -0.014748
 Fringe rate (Hz)
 0.011473
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085233
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

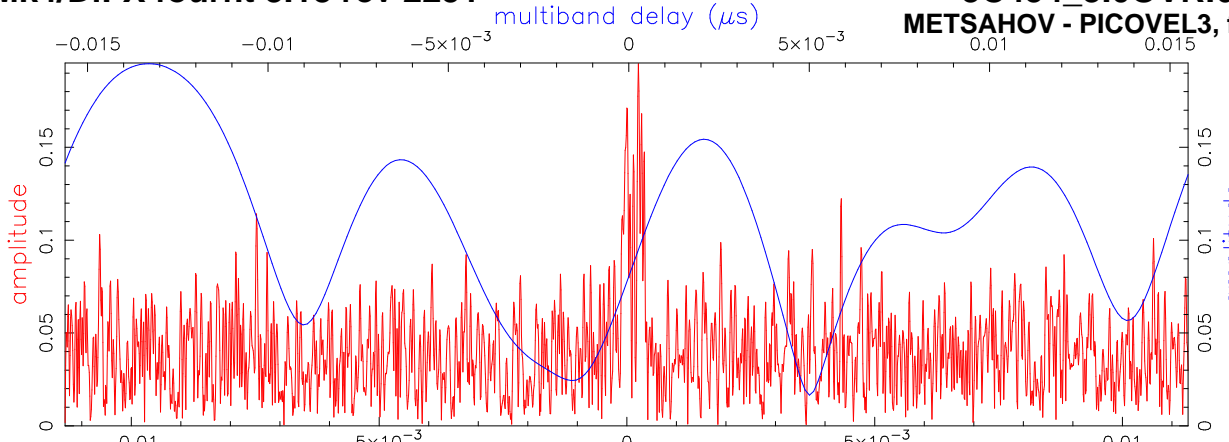
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



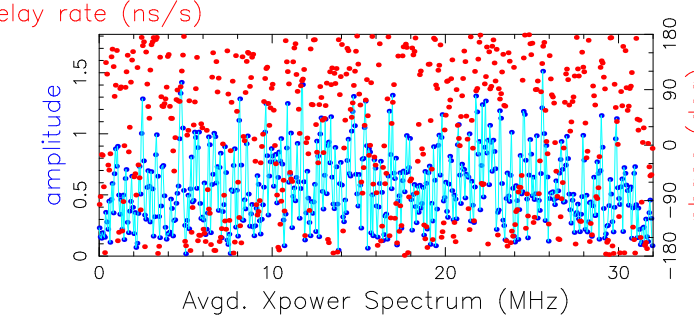
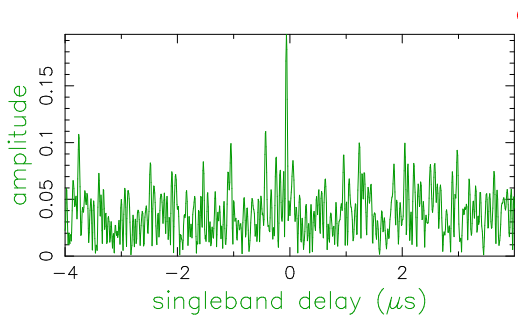
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	104.5	-40.8	43.0	-38.7	-51.4	-82.8	35.7	-1.9	Phase	-16.8
	0.4	1.0	0.6	0.6	0.7	0.8	0.6	0.6	Ampl.	0.7
	502.8	503.8	504.0	504.2	504.5	504.3	504.9	504.3	Sbd box	504.8
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
i	0	0	0	0	0	0	0	0	PC freqs	
Z:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-7.08863904139E+03		Apriori delay (usec)		-7.08856179347E+03		Resid mbdelay (usec)		-1.47479E-02	+/- 1.5E-04
Sband delay (usec)	-7.08862582397E+03		Apriori clock (usec)		7.0823097E-01		Resid sbdelay (usec)		-6.40305E-02	+/- 1.2E-03
Phase delay (usec)	-7.08856179402E+03		Apriori clockrate (us/s)		6.4699998E-07		Resid phdelay (usec)		-5.42078E-07	+/- 2.6E-07
Delay rate (us/s)	7.65470383067E-02		Apriori rate (us/s)		7.65469051213E-02		Resid rate (us/s)		1.33185E-07	+/- 1.5E-09
Total phase (deg)	-337.1		Apriori accel (us/s/s)		4.60716722859E-05		Resid phase (deg)		-16.8	+/- 8.1

ph/seg (deg) 73.4 19.4 Theor. Amplitude 0.428 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 96.7 33.9 Search (2048X32) 0.426 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 68.2 11.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 66.2 20.0 Inc. seg. avg. 0.756 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.651 ion window (TEC) 0.00 0.00

Z: az 257.8 el 25.5 pa 30.4 i: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -397.217 3313.526 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//Zi..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//Zi.W.32.0OVRI6

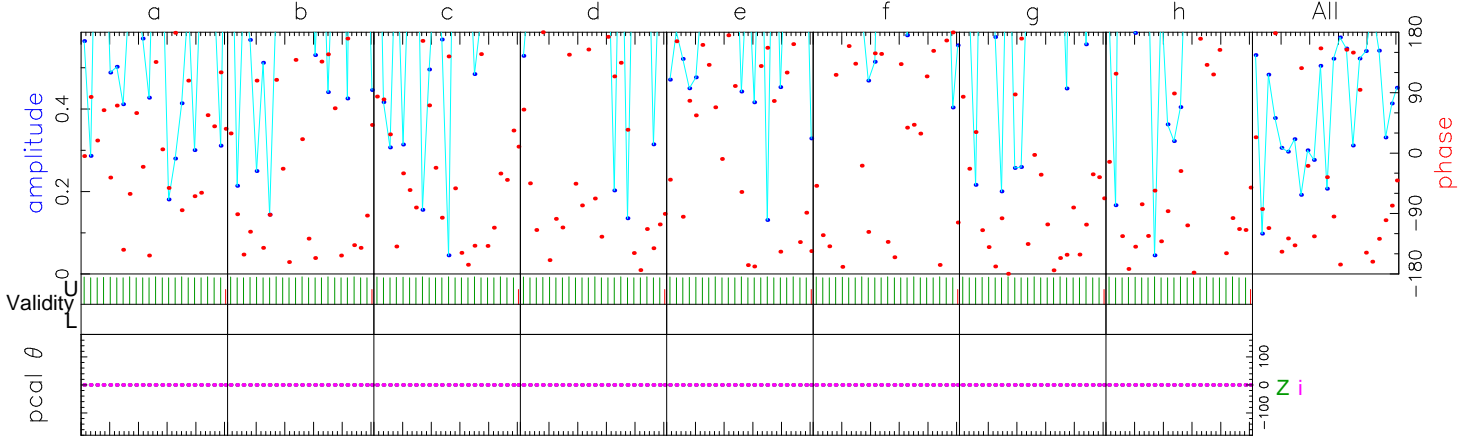


Fringe quality 0
 SNR 6.5
 Int time 291.861
 Amp 0.195
 Phase -144.2
 PFD 5.8e-02
 Delays (us)
 SBD -0.061432
 MBD -0.013340
 Fringe rate (Hz)
 0.019903
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085240
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

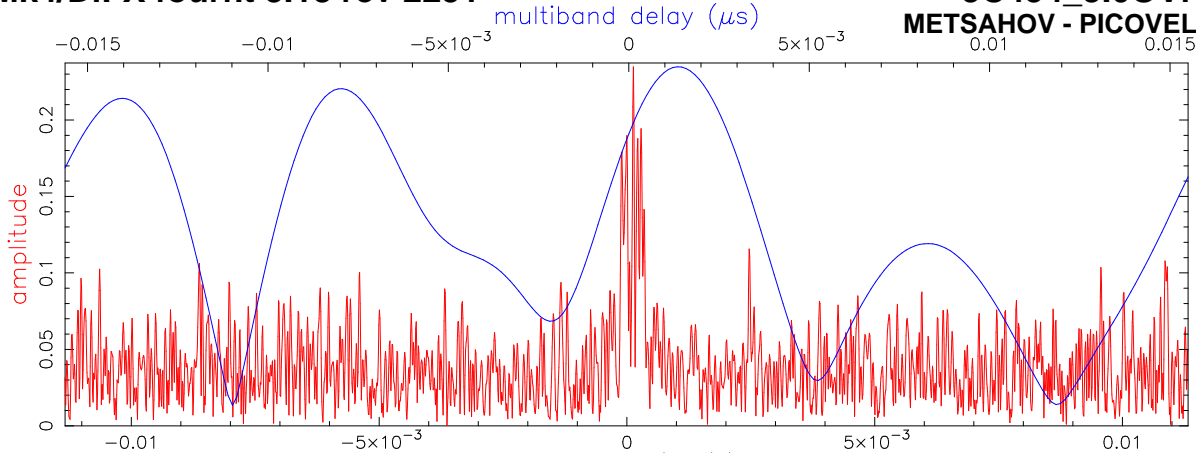
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



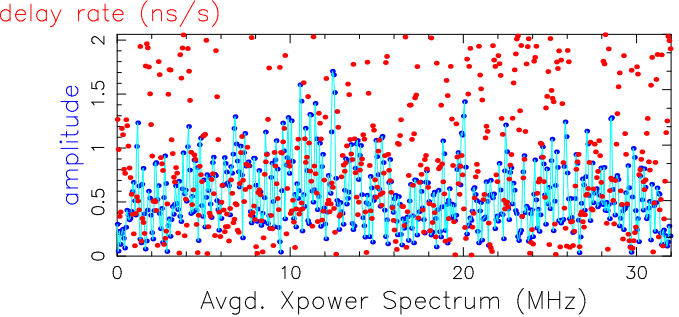
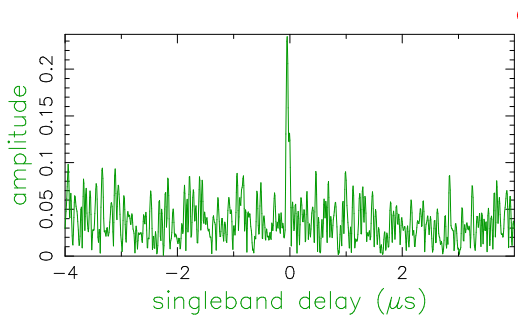
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	30.7	-160.6	-83.5	-135.9	145.2	165.0	-101.7	-138.3	Phase	-144.2
	0.2	0.3	0.2	0.4	0.2	0.4	0.4	0.4	Ampl.	0.3
	679.2	9.2	921.9	505.0	506.4	505.1	504.2	505.5	Sbd box	505.1
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
i	0	0	0	0	0	0	0	0	PC freqs	
Z:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-7.08863763391E+03	Apriori delay (usec)	-7.08856179347E+03	Resid mbdelay (usec)	-1.33404E-02	+/-	3.4E-04
Sband delay (usec)	-7.08862322497E+03	Apriori clock (usec)	7.0823097E-01	Resid sbdelay (usec)	-6.14315E-02	+/-	2.7E-03
Phase delay (usec)	-7.08856179812E+03	Apriori clockrate (us/s)	6.4699998E-07	Resid phdelay (usec)	-4.65081E-06	+/-	5.7E-07
Delay rate (us/s)	7.65471361777E-02	Apriori rate (us/s)	7.65469051213E-02	Resid rate (us/s)	2.31056E-07	+/-	3.3E-09
Total phase (deg)	-104.6	Apriori accel (us/s/s)	4.60716722859E-05	Resid phase (deg)	-144.2	+/-	17.8

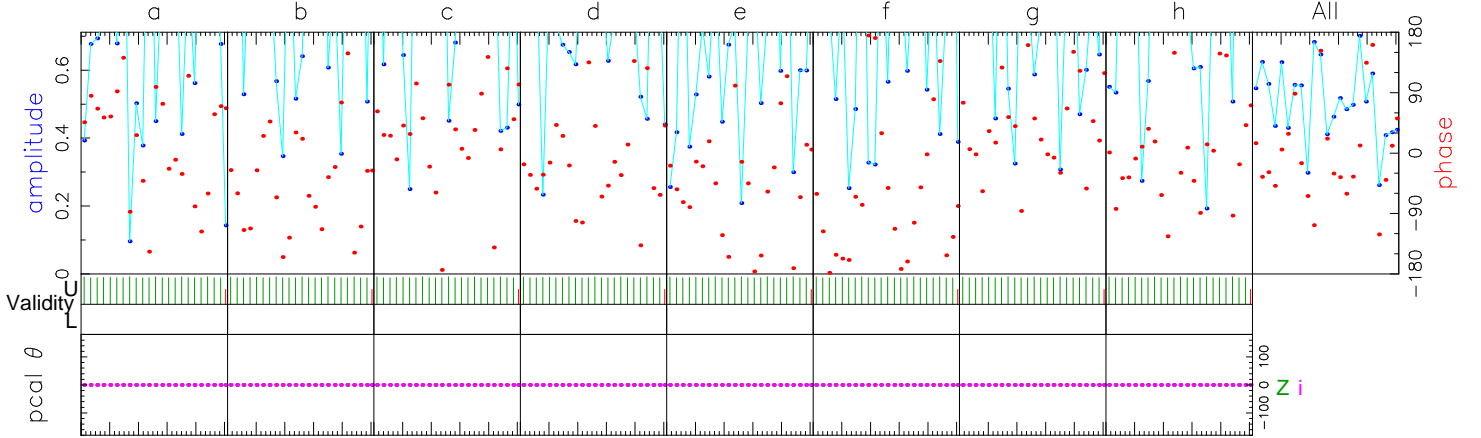
ph/seg (deg)	RMS 71.0	Theor. 42.6	Amplitude Search (2048X32)	0.193	0.195 +/- 0.030	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	128.6	74.3	Interp.	0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
ph/frq (deg)	85.6	25.1	Inc. seg. avg.	0.316		Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	74.7	43.8	Inc. frq. avg.	0.293		Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 1024	nlags: 512	t_cohere infinite		



Fringe quality 9
SNR 7.8
Int time 291.861
Amp 0.237
Phase -15.2
PFD 3.1e-06
Delays (us)
SBD -0.049750
MBD 0.001410
Fringe rate (Hz)
0.011863
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:083529
2019:176:085248
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

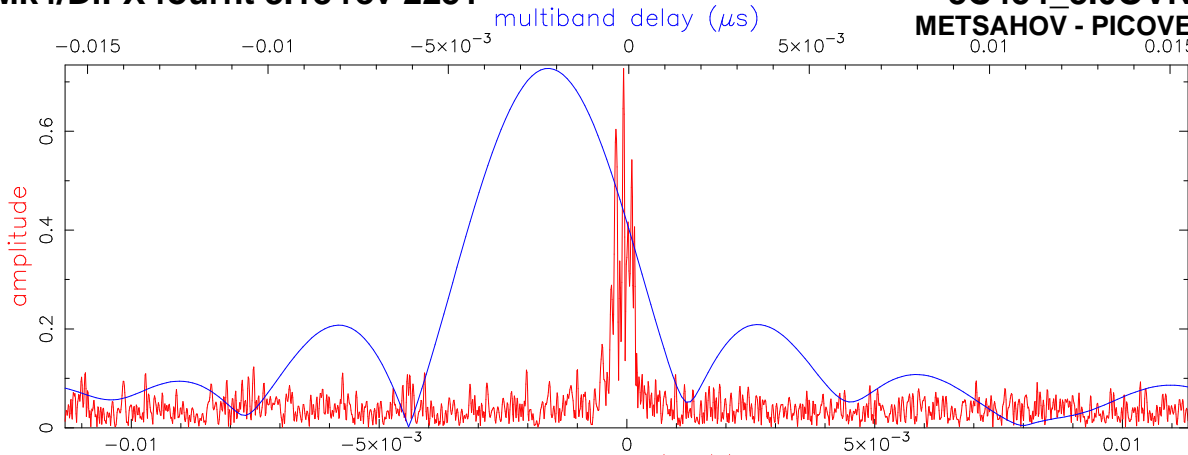


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0		
Z	0	0	0	0	0	0	0	0		
i	0	0	0	0	0	0	0	0		
Z:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
i	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd) -7.08862288377E+03 Apriori delay (usec) -7.08856179347E+03 Resid mbdelay (usec) 1.40971E-03 +/- 2.8E-04
Sband delay (usec) -7.08861154347E+03 Apriori clock (usec) 7.0823097E-01 Resid sbdelay (usec) -4.97500E-02 +/- 2.2E-03
Phase delay (usec) -7.08856179396E+03 Apriori clockrate (us/s) 6.4699998E-07 Resid phdelay (usec) -4.90865E-07 +/- 4.7E-07
Delay rate (us/s) 7.65470428337E-02 Apriori rate (us/s) 7.65469051213E-02 Resid rate (us/s) 1.37712E-07 +/- 2.7E-09
Total phase (deg) -335.6 Apriori accel (us/s/s) 4.60716722859E-05 Resid phase (deg) -15.2 +/- 14.6

ph/seg (deg) 75.2 35.1 Theor. Amplitude 0.237 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 123.2 61.2 Search (2048X32) 0.227 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
ph/frq (deg) 63.3 20.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
amp/frq (%) 73.0 36.1 Inc. seg. avg. 0.428 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
Inc. frq. avg. 0.363 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

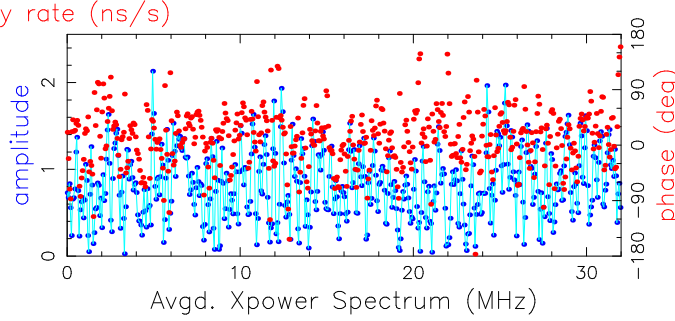
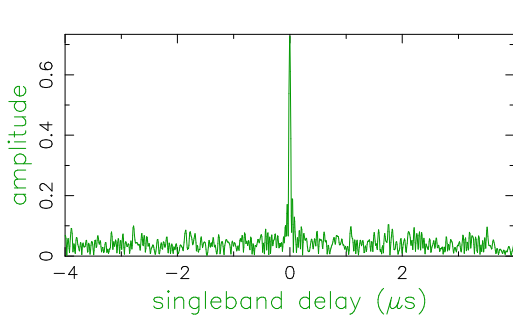
Z: az 257.8 el 25.5 pa 30.4 i: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -397.217 3313.526 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//Zi..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//Zi.W.69.0OVRI6



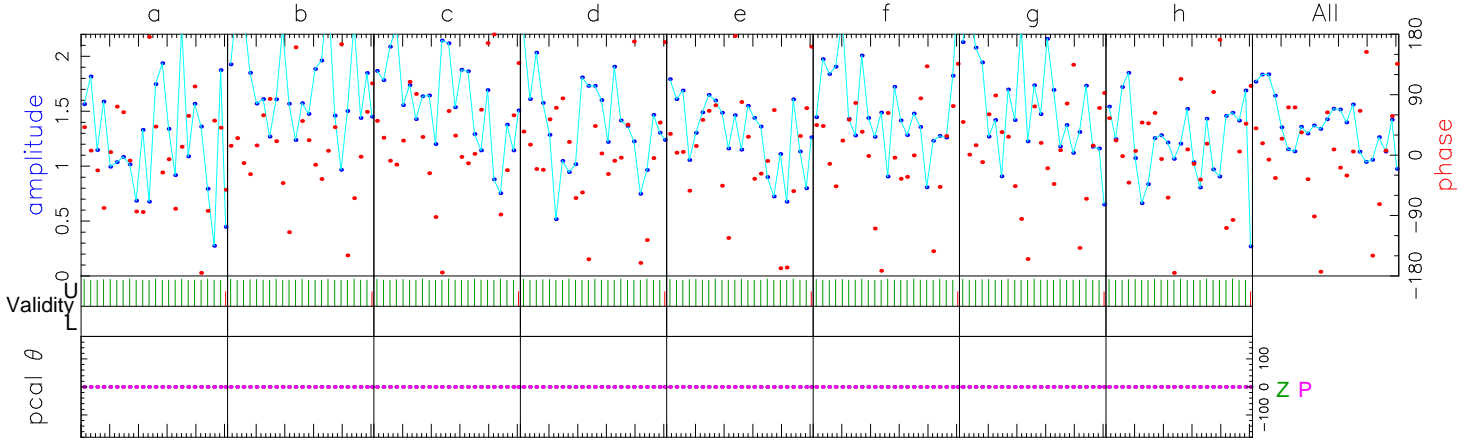
Fringe quality 7

SNR 24.1
 Int time 288.794
 Amp 0.734
 Phase 13.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.002410
 MBD -0.002284
 Fringe rate (Hz)
 -0.005608
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085232
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



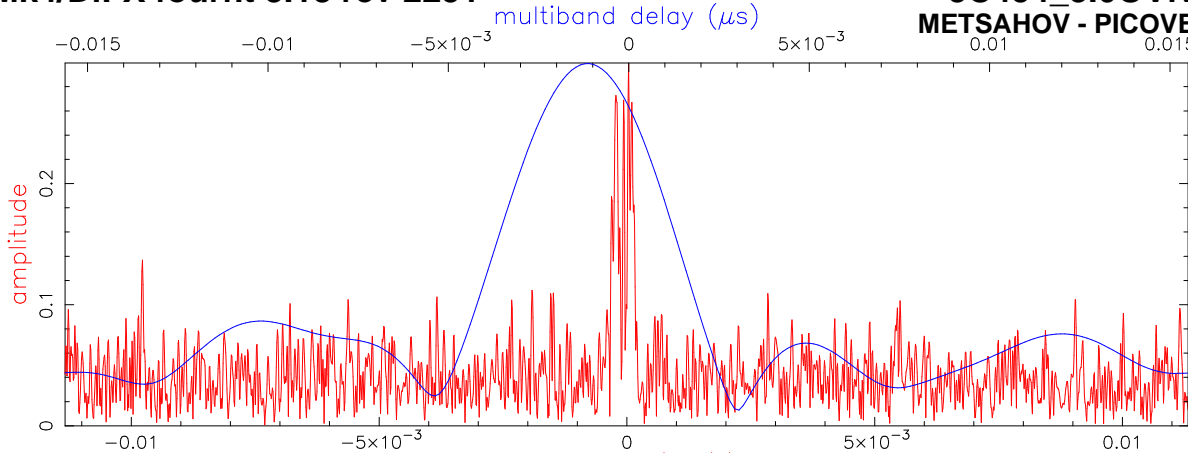
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	7.2	6.3	26.7	6.0	16.2	21.4	11.8	9.8	Phase	13.0
	0.6	1.0	0.8	0.7	0.6	0.8	0.8	0.6	Ampl.	0.7
	513.6	512.7	512.7	512.8	512.3	512.4	512.7	512.2	Sbd box	512.7
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-7.08904838792E+03	Apriori delay (usec)	-7.08904610347E+03	Resid mbdelay (usec)	-2.28445E-03	+/-	9.0E-05
Sband delay (usec)	-7.08904851297E+03	Apriori clock (usec)	2.2392273E-01	Resid sbdelay (usec)	-2.40950E-03	+/-	7.1E-04
Phase delay (usec)	-7.08904610305E+03	Apriori clockrate (us/s)	8.4699999E-07	Resid phdelay (usec)	4.20534E-07	+/-	1.5E-07
Delay rate (us/s)	7.65470400233E-02	Apriori rate (us/s)	7.65471051213E-02	Resid rate (us/s)	-6.50980E-08	+/-	8.8E-10
Total phase (deg)	-114.1	Apriori accel (us/s/s)	4.60716722859E-05	Resid phase (deg)	13.0	+/-	4.8

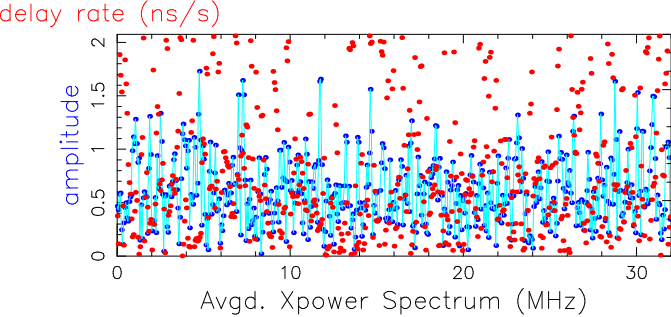
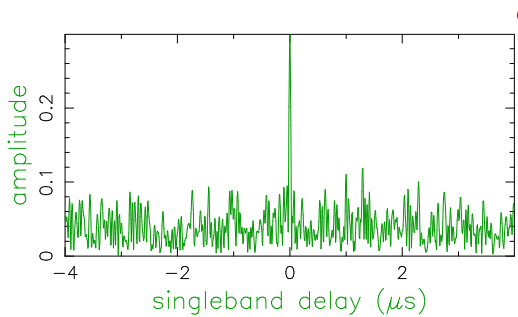
ph/seg (deg)	74.6	Theor.	11.4	Amplitude	0.734 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	93.8	Search (2048X32)	0.720	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	8.3	Inc. seg. avg.	1.353	Inc. frq. avg.	0.728	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	16.9	Inc. frq. avg.	0.728	u, v (fr/asec)	-397.217 3313.526	Sample rate (MSamp/s):	64	mb window (us)	-0.016 0.016

Z: az 257.8 el 25.5 pa 30.4 P: az 249.4 el 49.9 pa 51.2 u, v (fr/asec) -397.217 3313.526 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//ZP..00VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//ZP.W.26.00VRI6

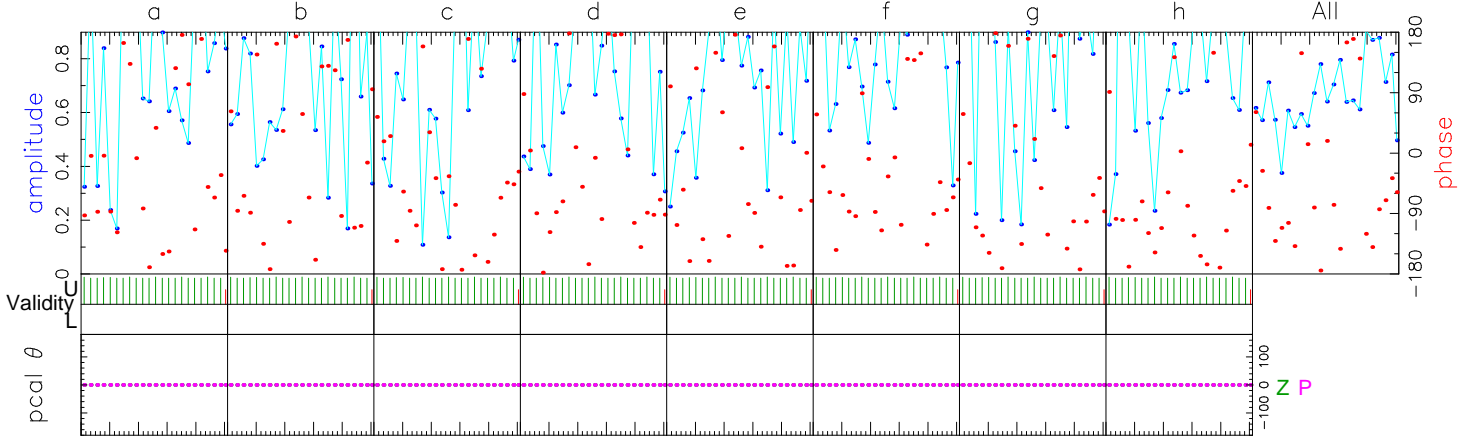


Fringe quality 9
 SNR 9.8
 Int time 288.794
 Amp 0.300
 Phase -110.5
 PFD 6.1e-14
 Delays (us)
 SBD -0.001011
 MBD -0.001156
 Fringe rate (Hz) 0.002606
 Ion TEC 0.000
 Ref freq (MHz) 86140.000
 AP (sec) 0.512



Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085239
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

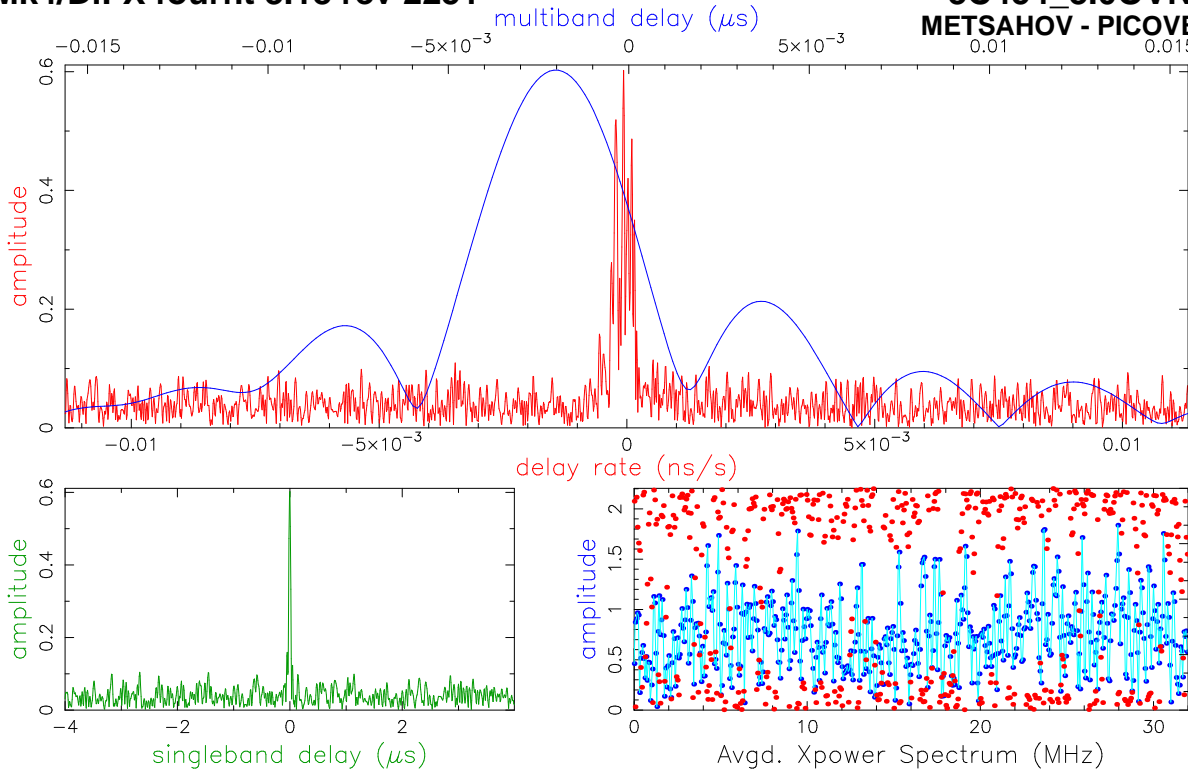


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-111.7	-128.6	-97.5	-105.7	-137.7	-81.5	-121.0	-110.9	Phase	-110.5
	0.1	0.2	0.3	0.4	0.3	0.4	0.4	0.5	Ampl.	0.3
	760.3	459.4	401.1	513.2	514.1	512.9	512.5	512.7	Sbd box	512.9
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-7.08904725913E+03	Apriori delay (usec)	-7.08904610347E+03	Resid mbdelay (usec)	-1.15565E-03	+/-	2.2E-04
Sband delay (usec)	-7.08904711447E+03	Apriori clock (usec)	2.2392273E-01	Resid sbdelay (usec)	-1.01100E-03	+/-	1.8E-03
Phase delay (usec)	-7.08904610704E+03	Apriori clockrate (us/s)	8.4699999E-07	Resid phdelay (usec)	-3.56303E-06	+/-	3.8E-07
Delay rate (us/s)	7.65471353795E-02	Apriori rate (us/s)	7.65471051213E-02	Resid rate (us/s)	3.02582E-08	+/-	2.2E-09
Total phase (deg)	-237.7	Apriori accel (us/s/s)	4.60716722859E-05	Resid phase (deg)	-110.5	+/-	11.6

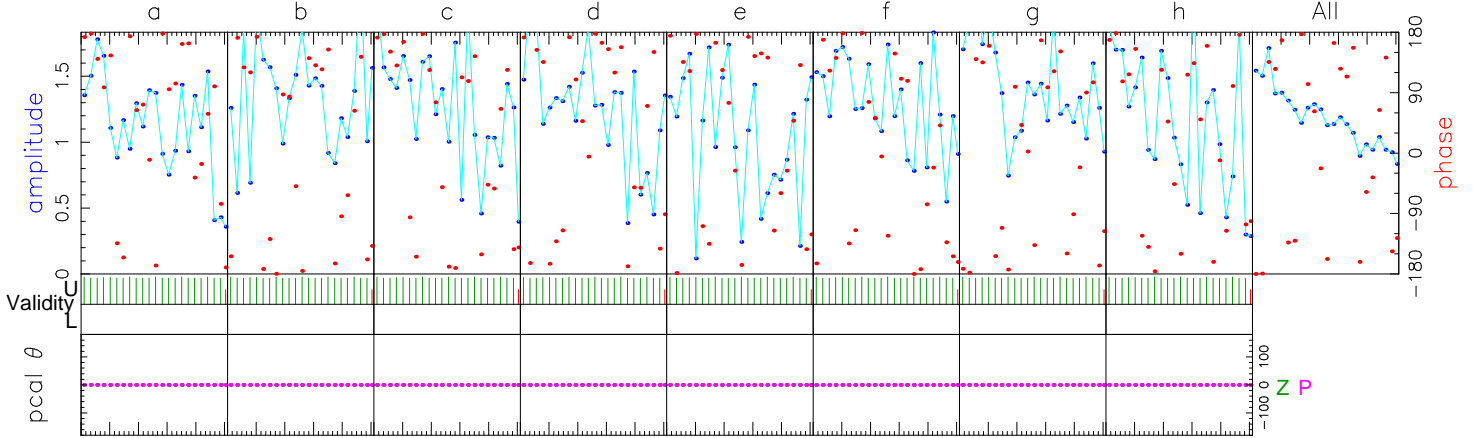
ph/seg (deg)	74.2	Theor.	27.9	Amplitude	0.300 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	130.4	Search (2048X32)	0.296	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	19.2	Interp.	0.000	Inc. seg. avg.	0.598	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	33.1	Inc. frq. avg.	0.299	Inc. frq. avg.	0.299	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016

Z: az 257.8 el 25.5 pa 30.4 P: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -397.217 3313.526 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//ZP..00VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//ZP.W.46.00VRI6



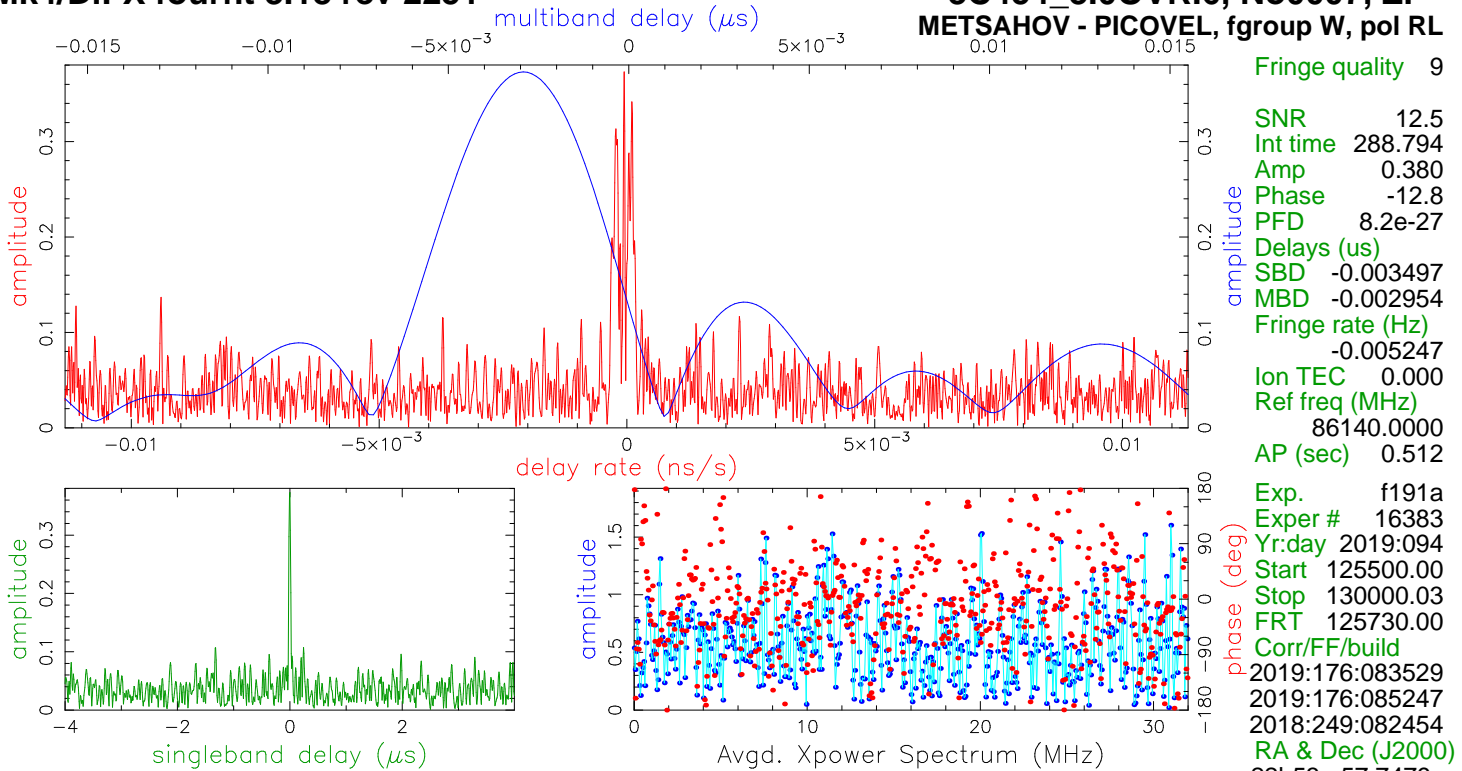
Fringe quality 9
 SNR 20.1
 Int time 288.794
 Amp 0.611
 Phase 163.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.003093
 MBD -0.002102
 Fringe rate (Hz)
 -0.005680
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085224
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

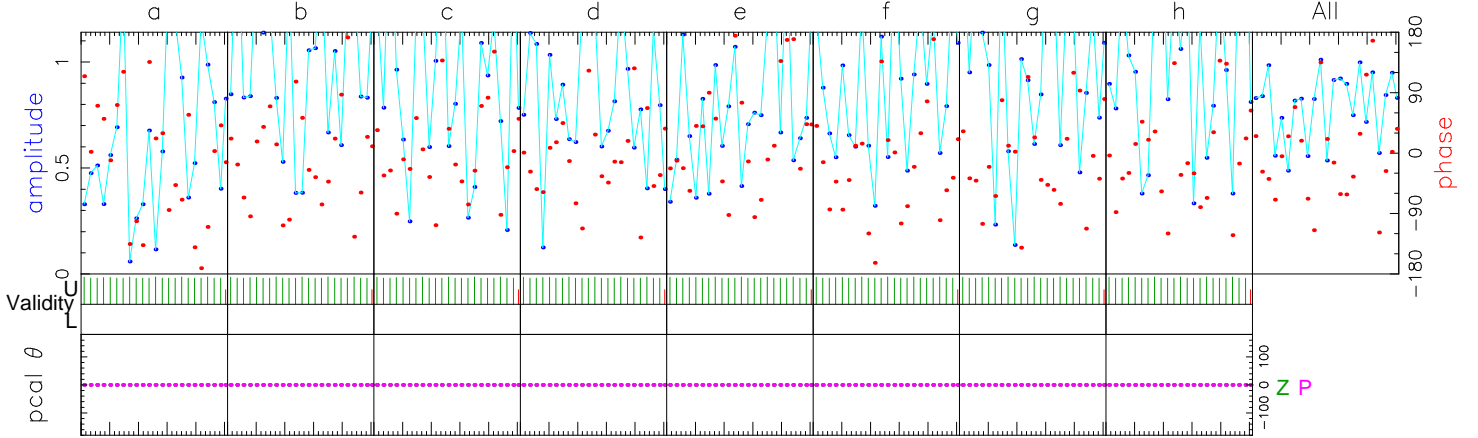


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	138.5	165.7	164.7	174.1	166.2	173.1	161.3	158.7	Phase	163.3
	0.5	0.8	0.7	0.6	0.5	0.7	0.7	0.7	Ampl.	0.6
	511.3	513.5	512.3	512.7	512.7	512.9	512.4	512.5	Sbd box	512.6
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-7.08904820548E+03		Apriori delay (usec)		-7.08904610347E+03		Resid mbdelay (usec)		-2.10201E-03	+/- 1.1E-04
Sband delay (usec)	-7.08904919697E+03		Apriori clock (usec)		2.2392273E-01		Resid sbdelay (usec)		-3.09350E-03	+/- 8.6E-04
Phase delay (usec)	-7.08904609821E+03		Apriori clockrate (us/s)		8.4699999E-07		Resid phdelay (usec)		5.26500E-06	+/- 1.8E-07
Delay rate (us/s)	7.65470391815E-02		Apriori rate (us/s)		7.65471051213E-02		Resid rate (us/s)		-6.59398E-08	+/- 1.1E-09
Total phase (deg)	36.1		Apriori accel (us/s/s)		4.60716722859E-05		Resid phase (deg)		163.3	+/- 5.7

ph/seg (deg) 73.6 13.7 Search (2048X32) 0.602 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 101.1 23.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 12.1 8.1 Inc. seg. avg. 1.158 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 19.0 14.1 Inc. frq. avg. 0.605 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 257.8 el 25.5 pa 30.4 P: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -397.217 3313.526 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007/ZP..0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007/ZP.W.6.0OVR16

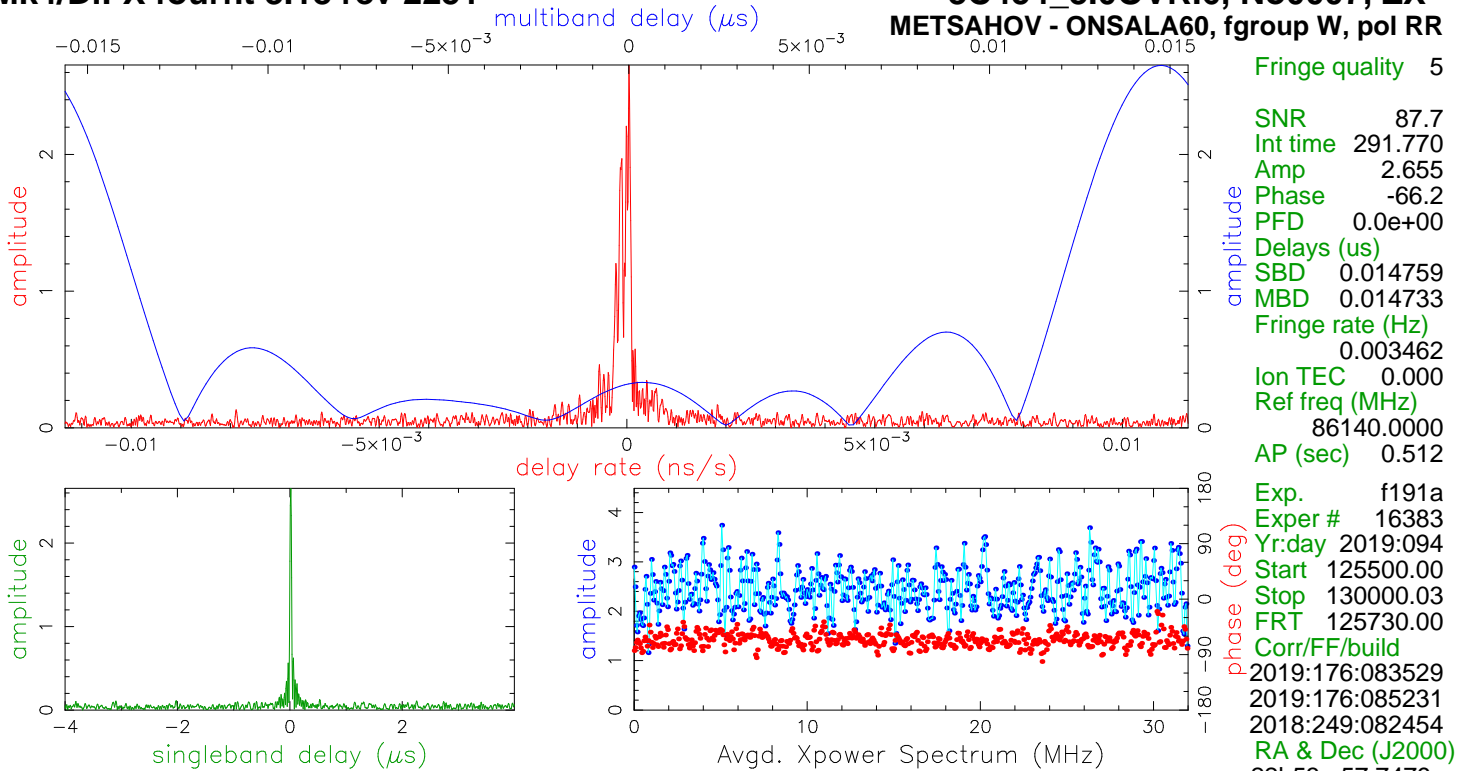


Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

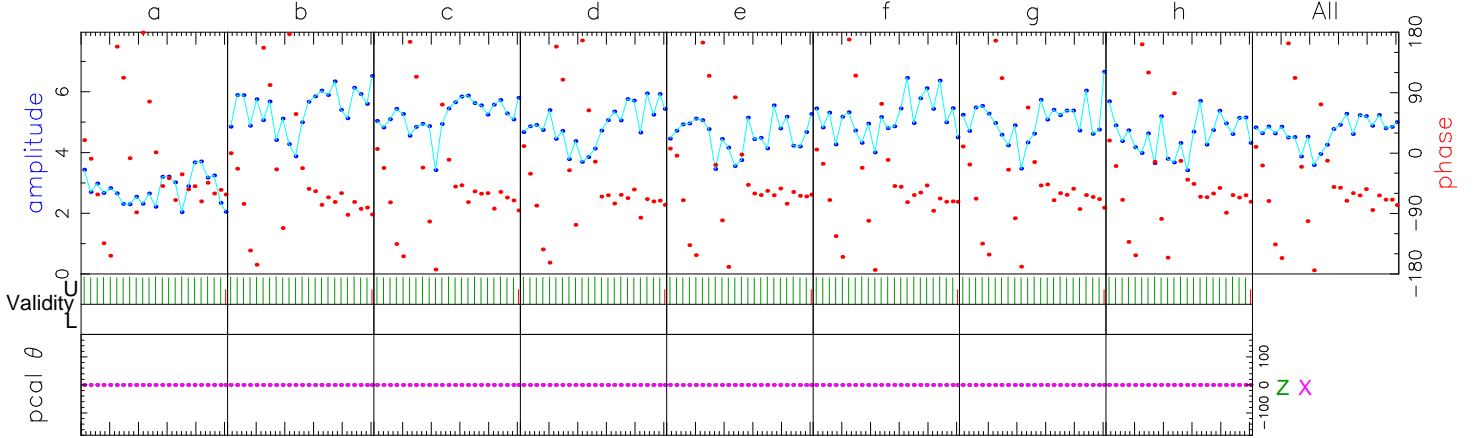


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-33.8	-21.3	1.5	-14.5	1.0	-18.8	-15.0	-11.7	Phase	-12.8
	0.1	0.4	0.4	0.5	0.3	0.4	0.4	0.5	Ampl.	0.4
	954.8	512.0	513.0	513.3	512.1	512.9	513.0	511.9	Sbd box	512.6
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-7.08904905717E+03		Apriori delay (usec)		-7.08904610347E+03		Resid mbdelay (usec)		-2.95370E-03	+/- 1.7E-04
Sband delay (usec)	-7.08904960097E+03		Apriori clock (usec)		2.2392273E-01		Resid sbdelay (usec)		-3.49750E-03	+/- 1.4E-03
Phase delay (usec)	-7.08904610388E+03		Apriori clockrate (us/s)		8.4699999E-07		Resid phdelay (usec)		-4.11231E-07	+/- 3.0E-07
Delay rate (us/s)	7.65470442101E-02		Apriori rate (us/s)		7.65471051213E-02		Resid rate (us/s)		-6.09112E-08	+/- 1.7E-09
Total phase (deg)			Apriori accel (us/s/s)		4.60716722859E-05		Resid phase (deg)		-12.8	+/- 9.2

RMS Theor. Amplitude 0.380 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 72.7 22.0 Search (2048X32) 0.358 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 117.0 38.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 12.6 13.0 Inc. seg. avg. 0.742 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 33.8 22.6 Inc. frq. avg. 0.368 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00
 Z: az 257.8 el 25.5 pa 30.4 P: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -397.217 3313.526 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//ZP..00VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//ZP.W.65.00VRI6



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



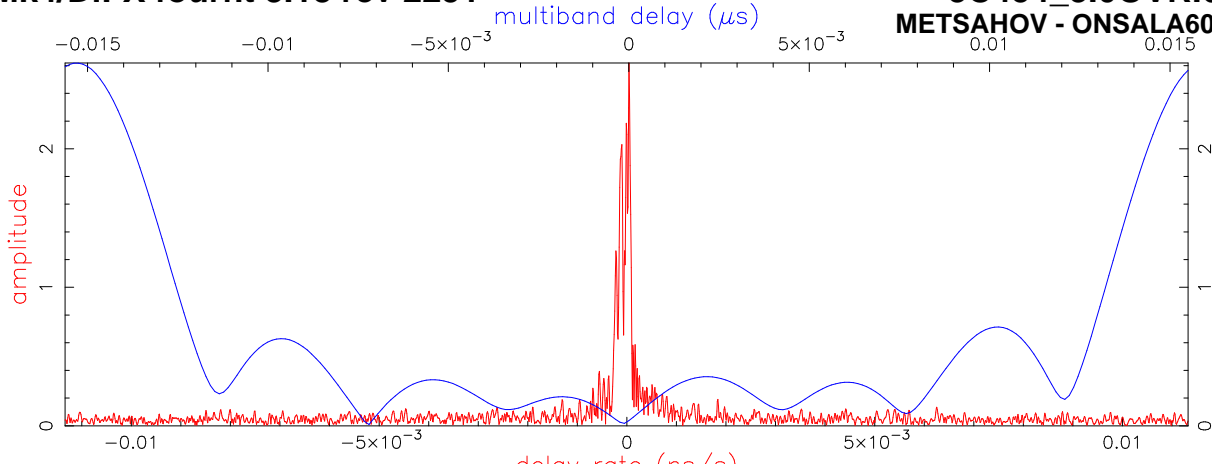
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-51.9	-73.9	-64.8	-72.0	-65.4	-65.3	-64.9	-63.9	Phase	-66.2
	1.5	3.1	3.0	2.8	2.4	2.9	2.9	2.6	Ampl.	2.7
	514.5	514.8	514.8	515.0	514.7	514.8	514.9	515.0	Sbd box	514.9
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-2.30384306227E+03	Apriori delay (usec)	-2.30385779559E+03	Resid mbdelay (usec)	1.47333E-02	+/-	2.5E-05
Sband delay (usec)	-2.30384303659E+03	Apriori clock (usec)	-2.4921793E+01	Resid sbdelay (usec)	1.47590E-02	+/-	2.0E-04
Phase delay (usec)	-2.30385779772E+03	Apriori clockrate (us/s)	-2.2999999E-07	Resid phdelay (usec)	-2.13409E-06	+/-	4.2E-08
Delay rate (us/s)	-2.56650352586E-02	Apriori rate (us/s)	-2.56650754465E-02	Resid rate (us/s)	4.01880E-08	+/-	2.4E-10
Total phase (deg)	-250.4	Apriori accel (us/s/s)	1.29260425995E-05	Resid phase (deg)	-66.2	+/-	1.3

ph/seg (deg)	69.1	Theor.	3.1	Amplitude	2.655 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	77.9		5.5	Search (2048X32)	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	7.2		1.8	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	18.1		3.2	Inc. seg. avg.	4.672	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
				Inc. frq. avg.	2.662	Data rate(Mb/s):	1024	dr window (ns/s)	-0.011 0.011
						nlags:	512	ion window (TEC)	0.00 0.00

Z: az 257.8 el 25.5 pa 30.4 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 169.488 512.818 simultaneous interpolator

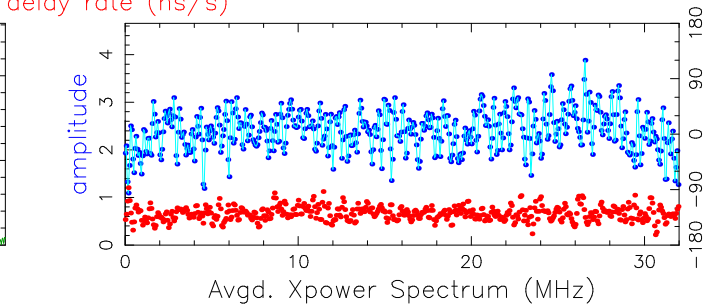
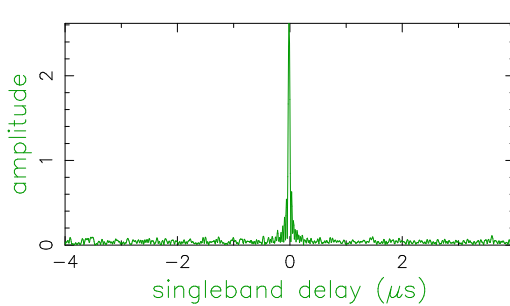
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//ZX..00VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//ZX.W.25.00VRI6



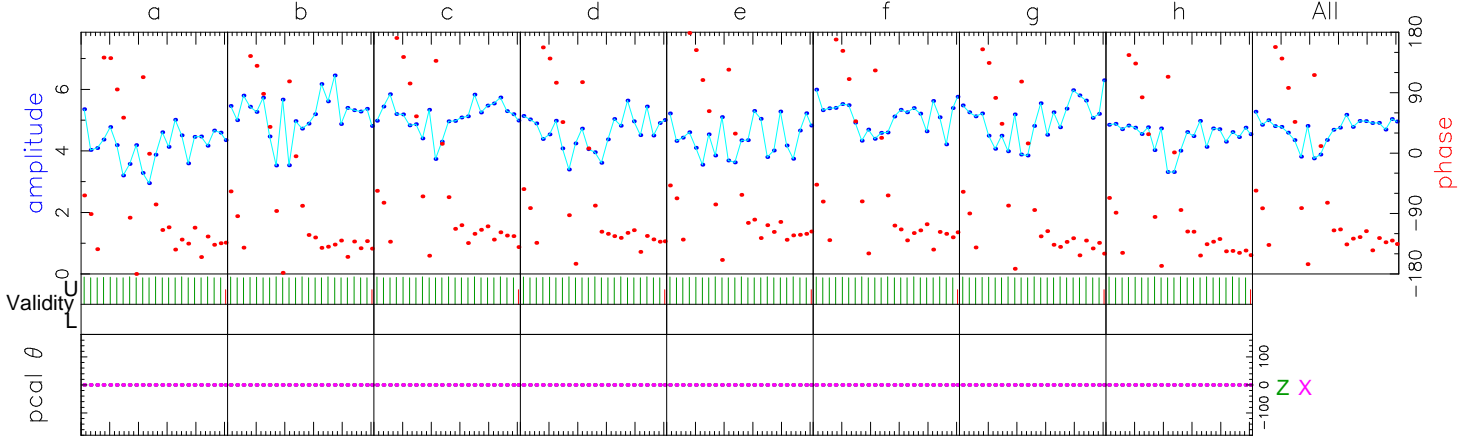
Fringe quality 5

SNR 86.5
Int time 291.770
Amp 2.620
Phase -129.0
PFD 0.0e+00
Delays (us)
SBD -0.015329
MBD -0.015299
Fringe rate (Hz) 0.003398
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:083529
2019:176:085224
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



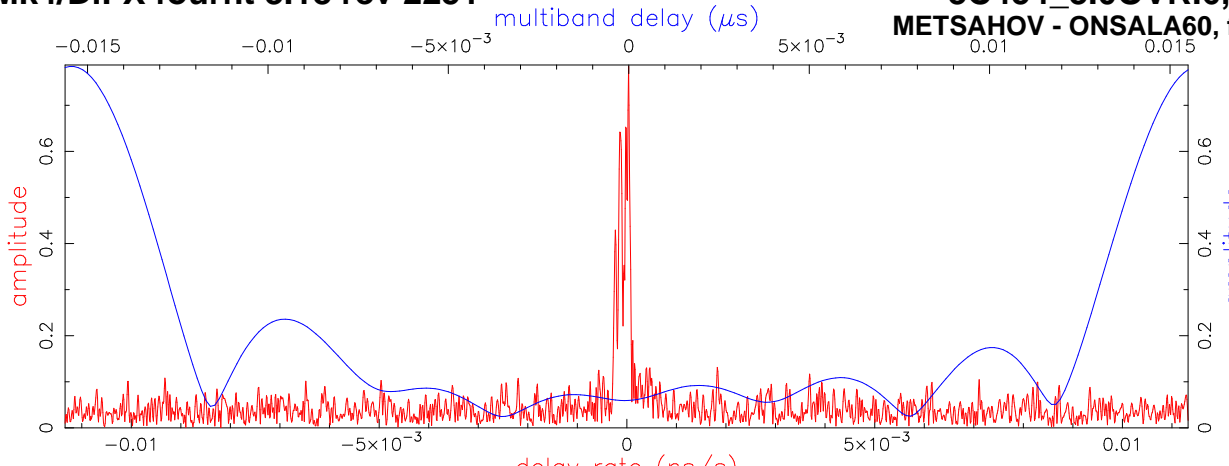
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All	
	-134.2	-137.9	-121.0	-128.2	-116.9	-120.9	-134.9	-138.7	Phase	-129.0	
	2.4	2.8	2.9	2.5	2.5	2.7	2.8	2.5	Ampl.	2.6	
	510.9	511.1	511.0	511.0	511.0	511.0	510.9	511.2	Sbd box	511.0	
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used		
Z	0	0	0	0	0	0	0	0	PC freqs		
X	0	0	0	0	0	0	0	0	PC freqs		
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC		
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
X	1000	1000	1000	1000	1000	1000	1000	1000			
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks		
									Chan ids		
									Tracks		
Group delay (usec)(sbd)	-2.30387309477E+03		Apriori delay (usec)		-2.30385779559E+03		Resid mbdelay (usec)		-1.52992E-02	+/- 2.5E-05	
Sband delay (usec)	-2.30387312409E+03		Apriori clock (usec)		-2.4921793E+01		Resid sbdelay (usec)		-1.53285E-02	+/- 2.0E-04	
Phase delay (usec)	-2.30385779975E+03		Apriori clockrate (us/s)		-2.2999999E-07		Resid phdelay (usec)		-4.16079E-06	+/- 4.3E-08	
Delay rate (us/s)	-2.56650359997E-02		Apriori rate (us/s)		-2.56650754465E-02		Resid rate (us/s)		3.94468E-08	+/- 2.5E-10	
Total phase (deg)			Apriori accel (us/s/s)		1.29260425995E-05		Resid phase (deg)		-129.0	+/- 1.3	
	RMS	Theor.	Amplitude	2.620 +/- 0.030		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	69.7	3.2	Search (2048X32)	2.535		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-4.000	4.000	
amp/seg (%)	80.7	5.5	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	9.2	1.9	Inc. seg. avg.	4.688		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	7.6	3.3	Inc. frq. avg.	2.643		Data rate(Mb/s): 1024		nlags: 512 t_cohere infinite	ion window (TEC)	0.00	0.00

Z: az 257.8 el 25.5 pa 30.4 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 169.488 512.818 simultaneous interpolator

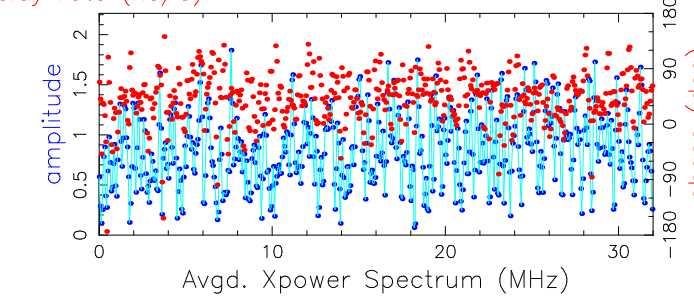
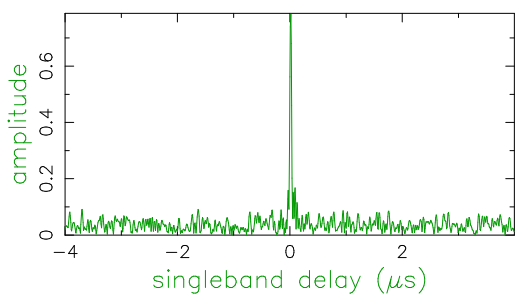
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//ZX...0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007//ZX.W.4.0OVR16



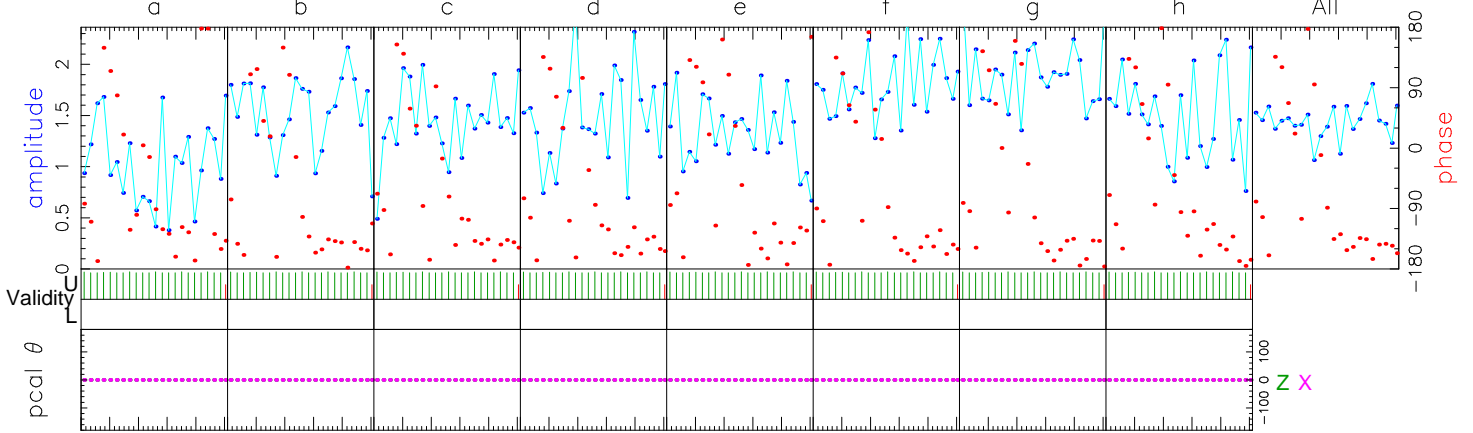
Fringe quality 7

SNR 26.0
 Int time 291.770
 Amp 0.788
 Phase -144.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.014066
 MBD -0.015476
 Fringe rate (Hz)
 0.003284
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085239
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

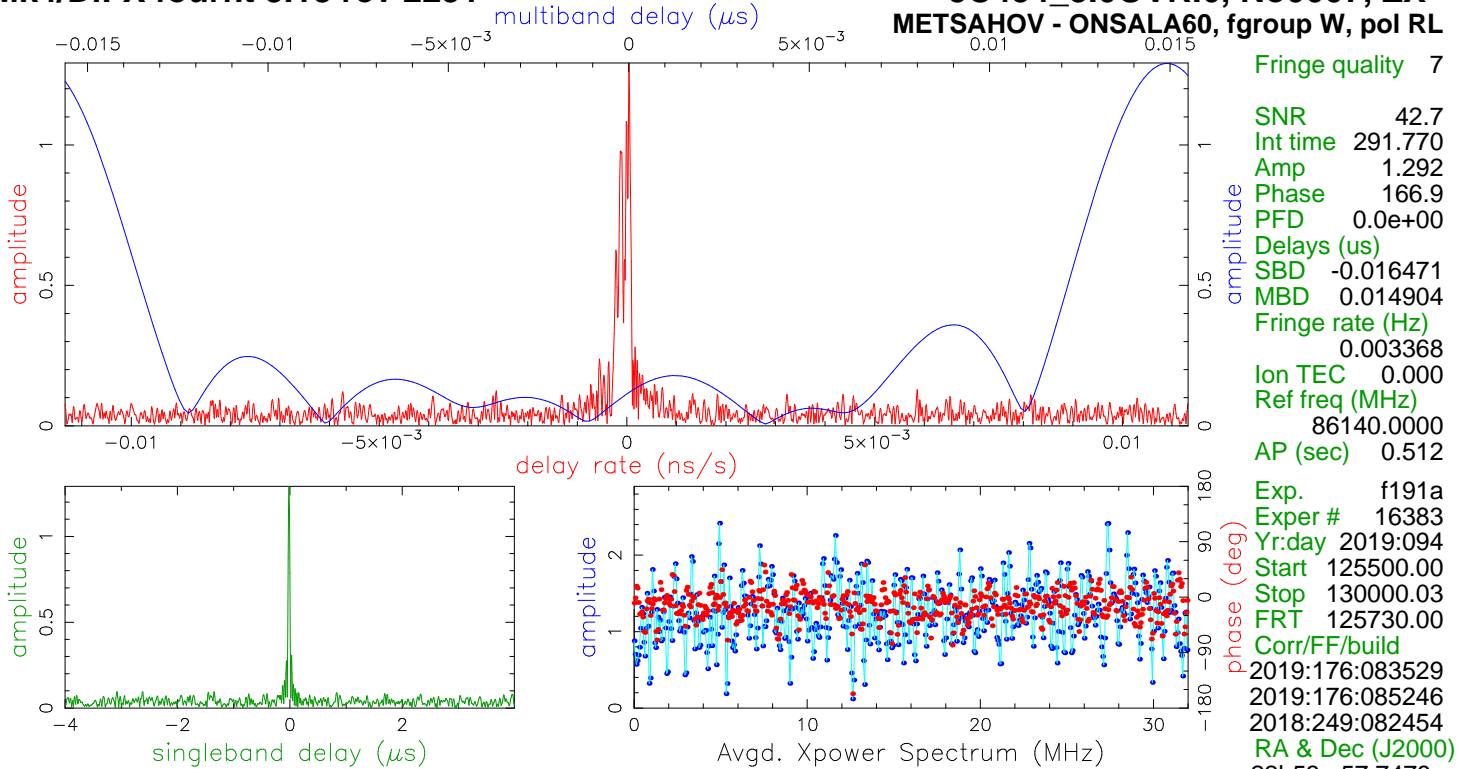


Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

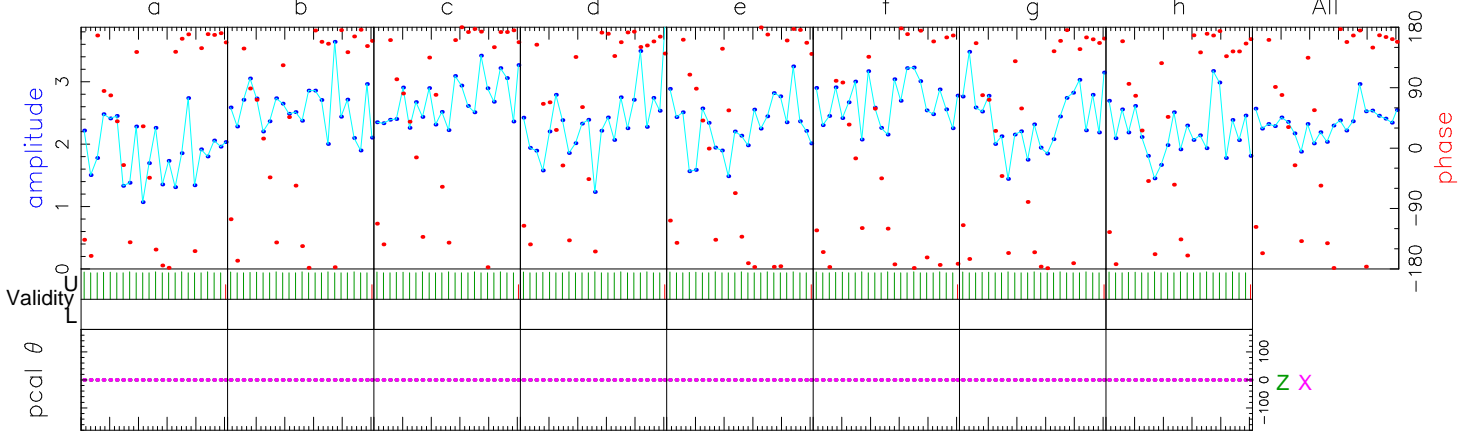


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-143.9	-152.2	-141.2	-137.6	-148.6	-148.9	-146.1	-138.5	Phase	-144.6
	0.6	0.8	0.7	0.9	0.6	0.9	1.0	0.8	Ampl.	0.8
	513.3	515.2	514.8	514.9	514.9	514.9	514.8	514.7	Sbd box	514.8
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.30384202180E+03		Apriori delay (usec)		-2.30385779559E+03		Resid mbdelay (usec)		-1.54762E-02	+/- 8.3E-05
Sband delay (usec)	-2.30384372909E+03		Apriori clock (usec)		-2.4921793E+01		Resid sbdelay (usec)		1.40665E-02	+/- 6.6E-04
Phase delay (usec)	-2.30385780025E+03		Apriori clockrate (us/s)		-2.2999999E-07		Resid phdelay (usec)		-4.66179E-06	+/- 1.4E-07
Delay rate (us/s)	-2.56650373183E-02		Apriori rate (us/s)		-2.56650754465E-02		Resid rate (us/s)		3.81282E-08	+/- 8.2E-10
Total phase (deg)			Apriori accel (us/s/s)		1.29260425995E-05		Resid phase (deg)		-144.6	+/- 4.4

ph/seg (deg) 70.0 10.6 Theor. Amplitude 0.788 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 85.3 18.4 Search (2048X32) 0.763 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 5.7 6.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 19.8 10.9 Inc. seg. avg. 1.416 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 257.8 el 25.5 pa 30.4 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 169.488 512.818 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//ZX...00VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//ZX.W.45.00VRI6



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



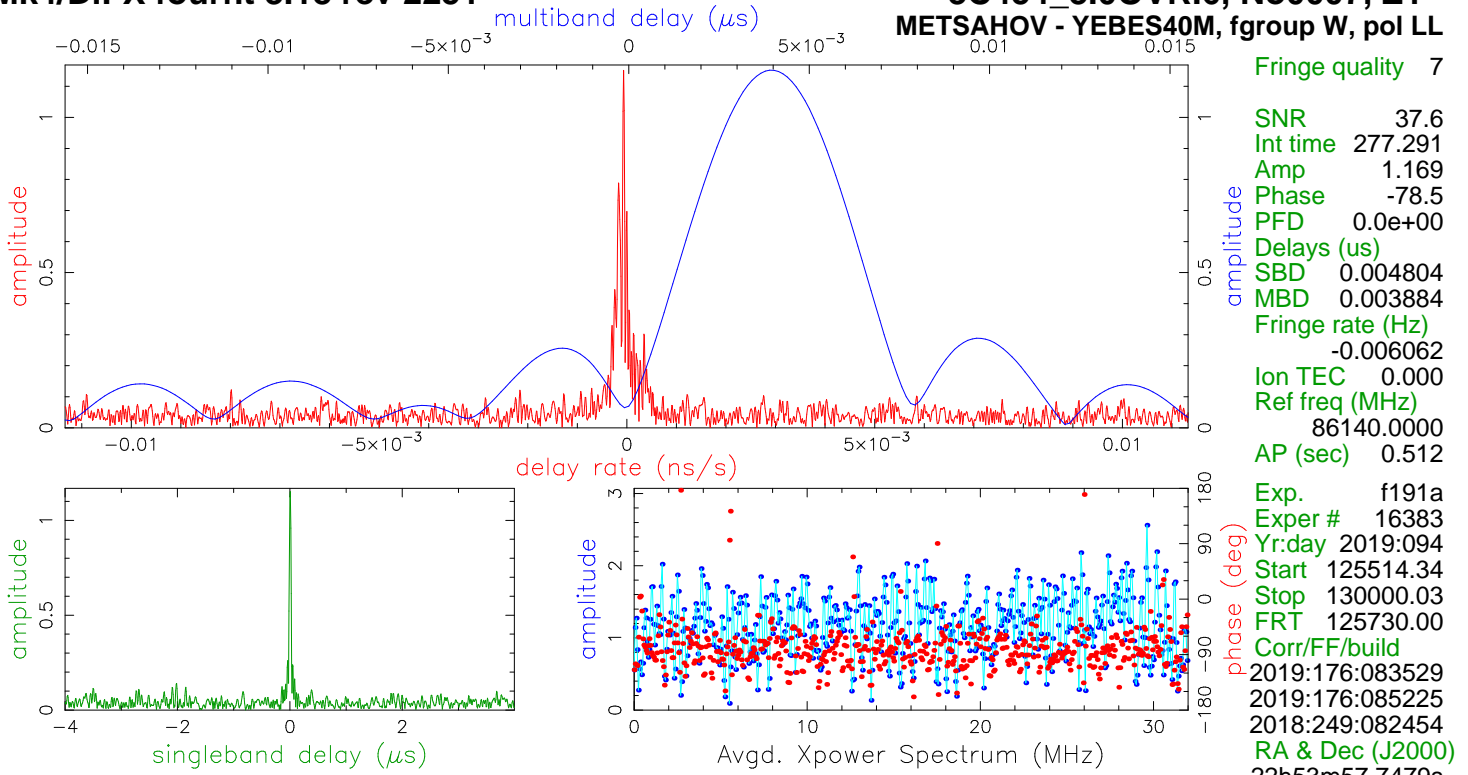
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	163.7	164.8	168.7	156.9	178.5	175.2	163.9	160.6	Phase	166.9
	1.0	1.3	1.5	1.2	1.3	1.4	1.4	1.2	Ampl.	1.3
	511.7	510.6	510.9	510.8	510.9	510.7	510.7	511.0	Sbd box	510.9
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-2.30387414170E+03	Apriori delay (usec)	-2.30385779559E+03	Resid mbdelay (usec)	1.49039E-02	+/-	5.1E-05
Sband delay (usec)	-2.30387426709E+03	Apriori clock (usec)	-2.4921793E+01	Resid sbdelay (usec)	-1.64715E-02	+/-	4.0E-04
Phase delay (usec)	-2.30385779020E+03	Apriori clockrate (us/s)	-2.2999999E-07	Resid phdelay (usec)	5.38265E-06	+/-	8.7E-08
Delay rate (us/s)	-2.56650363498E-02	Apriori rate (us/s)	-2.56650754465E-02	Resid rate (us/s)	3.90968E-08	+/-	5.0E-10
Total phase (deg)	-17.3	Apriori accel (us/s/s)	1.29260425995E-05	Resid phase (deg)	166.9	+/-	2.7

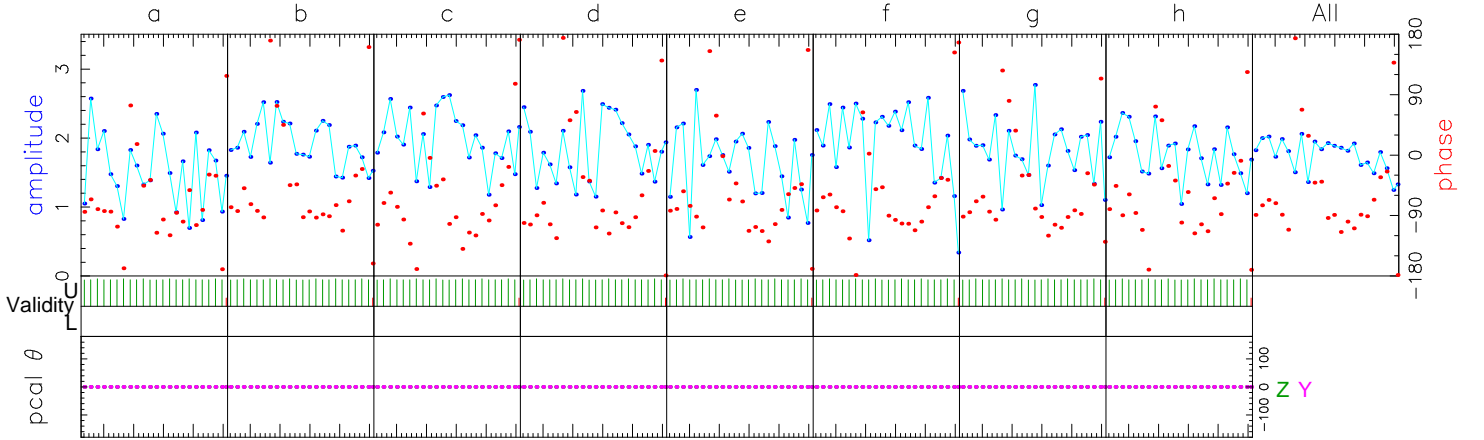
ph/seg (deg)	68.4	RMS	68.4	Theor.	6.4	Amplitude	1.292 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	82.7		11.2	Search (2048X32)	1.249	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
ph/frq (deg)	7.8		3.8	Inc. seg. avg.	2.324	Inc. seg. avg.	2.324	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.016 0.016
amp/frq (%)	11.9		6.6	Inc. frq. avg.	1.296	Inc. frq. avg.	1.296	Sample rate(MSamp/s):	64	ion window (TEC)	0.00 0.00	

Z: az 257.8 el 25.5 pa 30.4 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 169.488 512.818 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//ZX...00VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//ZX.W.64.00VRI6



Amp. and Phase vs. time for each freq., 23 segs, 25 APs / seg (12.80 sec / seg.), time ticks 10 sec

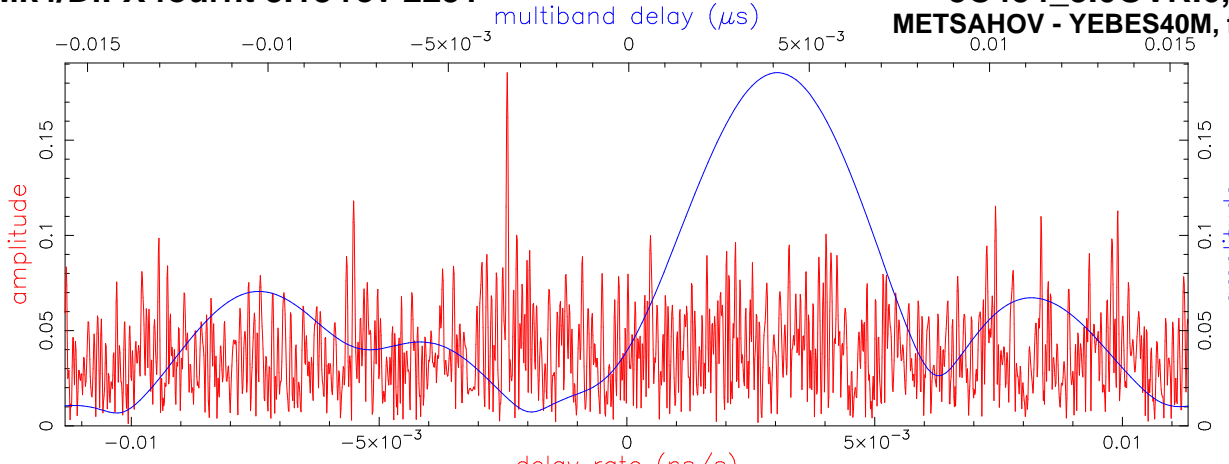


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-78.6	-72.4	-82.7	-87.6	-81.3	-81.4	-76.3	-66.3	Phase	-78.5
	1.0	1.2	1.3	1.1	1.1	1.4	1.1	1.0	Ampl.	1.2
	513.0	513.7	513.4	513.6	513.5	513.6	513.8	513.8	Sbd box	513.6
U/L	558/0	558/0	558/0	558/0	558/0	558/0	558/0	558/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.72549471886E+03		Apriori delay (usec)	-6.72549860299E+03		Resid mbdelay (usec)	3.88413E-03	+/-	5.8E-05	
Sband delay (usec)	-6.72549379849E+03		Apriori clock (usec)	-6.8747673E+00		Resid sbdelay (usec)	4.80450E-03	+/-	4.6E-04	
Phase delay (usec)	-6.72549860552E+03		Apriori clockrate (us/s)	3.5699999E-07		Resid phdelay (usec)	-2.53231E-06	+/-	9.8E-08	
Delay rate (us/s)	4.49835472215E-02		Apriori rate (us/s)	4.49836175961E-02		Resid rate (us/s)	-7.03747E-08	+/-	6.0E-10	
Total phase (deg)		-316.7	Apriori accel (us/s/s)	4.26216030664E-05		Resid phase (deg)	-78.5	+/-	3.0	

	RMS	Theor.	Amplitude	1.169 +/- 0.031	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	60.2	7.3	Search (2048X32)	1.135	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
amp/seg (%)	54.0	12.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016 0.016
ph/frq (deg)	7.2	4.3	Inc. seg. avg.	1.746	Sample rate(MSamp/s): 64	nlags: 512 t_cohere infinite	dr window (ns/s)	-0.011 0.011
amp/frq (%)	9.9	7.5	Inc. frq. avg.	1.155	Data rate(Mb/s): 1024		ion window (TEC)	0.00 0.00

Z: az 257.8 el 25.5 pa 30.4 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -213.535 2835.037 simultaneous interpolator

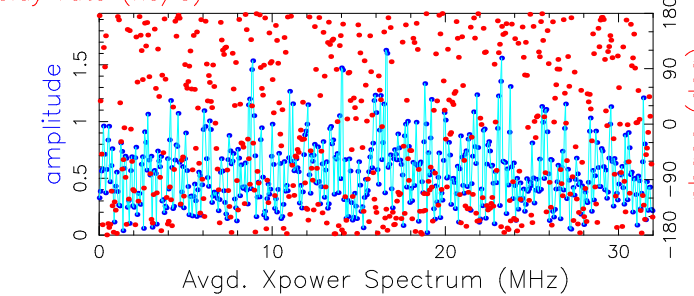
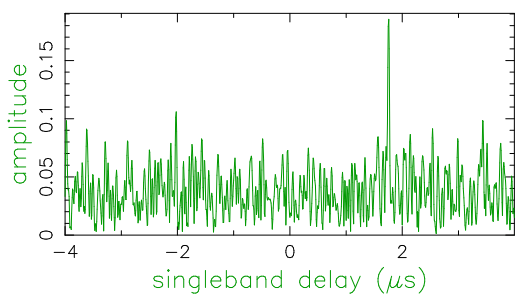
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//ZY..00VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//ZY.W.13.00VRI6



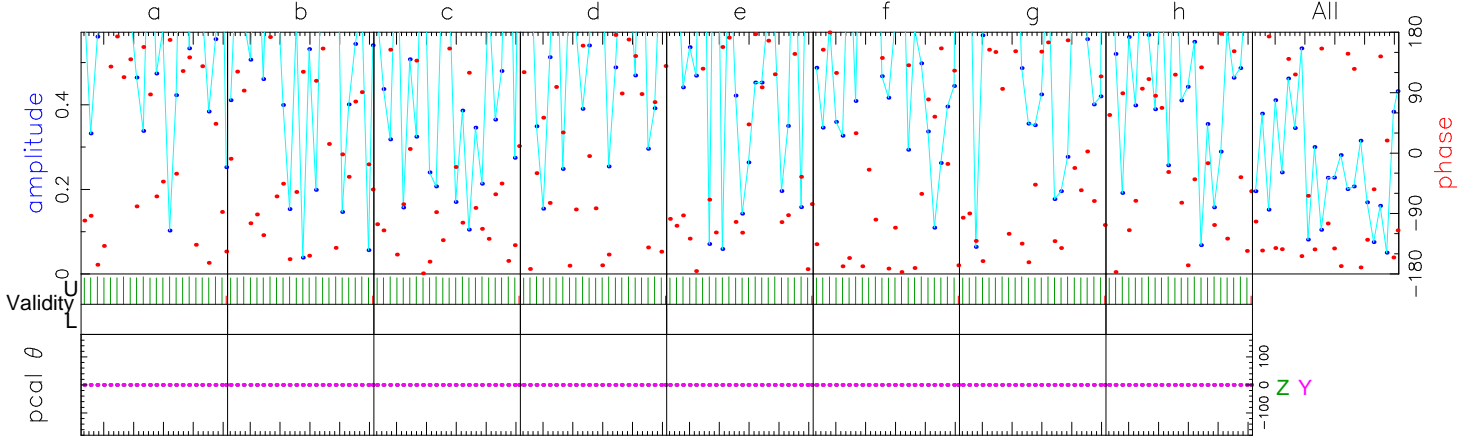
Fringe quality 0

SNR 6.0
Int time 277.291
Amp 0.191
Phase -163.4
PFD 5.9e-01
Delays (us)
SBD 1.755414
MBD 0.004083
Fringe rate (Hz)
-0.208121
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125514.34
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:083529
2019:176:085240
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 23 segs, 25 APs / seg (12.80 sec / seg.), time ticks 10 sec



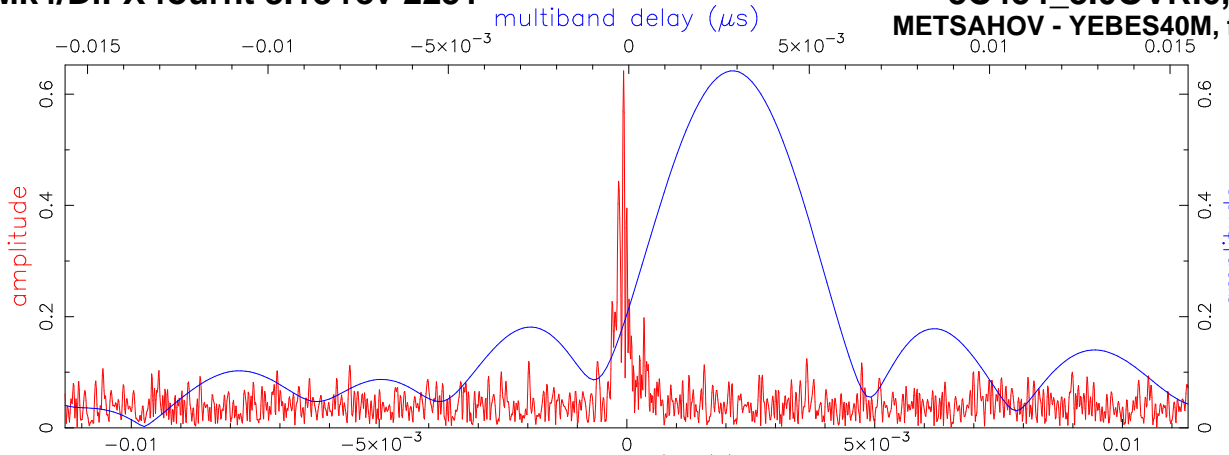
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	176.1	-141.5	-135.3	159.9	-160.4	-163.0	-143.2	134.3	Phase	-163.4
	0.2	0.1	0.3	0.2	0.3	0.3	0.2	0.1	Ampl.	0.2
	837.2	544.6	836.7	584.4	736.9	244.0	980.6	631.3	Sbd box	737.7
U/L	558/0	558/0	558/0	558/0	558/0	558/0	558/0	558/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-6.72374452005E+03	Apriori delay (usec)	-6.72549860299E+03	Resid mbdelay (usec)	4.08294E-03	+/-	3.6E-04
Sband delay (usec)	-6.72374318849E+03	Apriori clock (usec)	-6.8747673E+00	Resid sbdelay (usec)	1.75541E+00	+/-	2.9E-03
Phase delay (usec)	-6.72549860826E+03	Apriori clockrate (us/s)	3.5699999E-07	Resid phdelay (usec)	-5.26859E-06	+/-	6.1E-07
Delay rate (us/s)	4.49812015145E-02	Apriori rate (us/s)	4.49836175961E-02	Resid rate (us/s)	-2.41608E-06	+/-	3.7E-09
Total phase (deg)	-41.5	Apriori accel (us/s/s)	4.26216030664E-05	Resid phase (deg)	-163.4	+/-	19.0

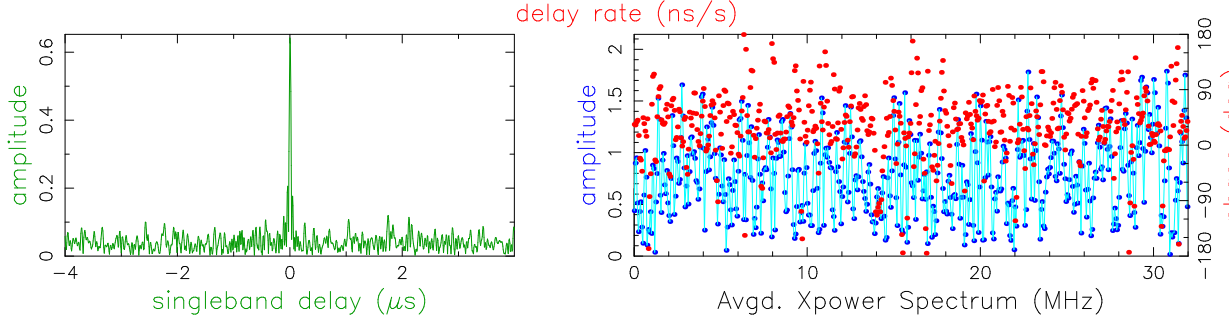
ph/seg (deg)	62.7	RMS	45.6	Theor.	45.6	Amplitude	0.191 +/- 0.032	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	76.8		79.6	Search (2048X32)	0.180			Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.016	0.016
ph/frq (deg)	35.0		26.9	Interp.	0.000			Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	44.8		47.0	Inc. seg. avg.	0.195			Sample rate(MSamp/s):	64			ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.186			Data rate(Mb/s):	1024	nlags:	512	t_cohere	infinite	

Z: az 257.8 el 25.5 pa 30.4 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) -213.535 2835.037 simultaneous interpolator

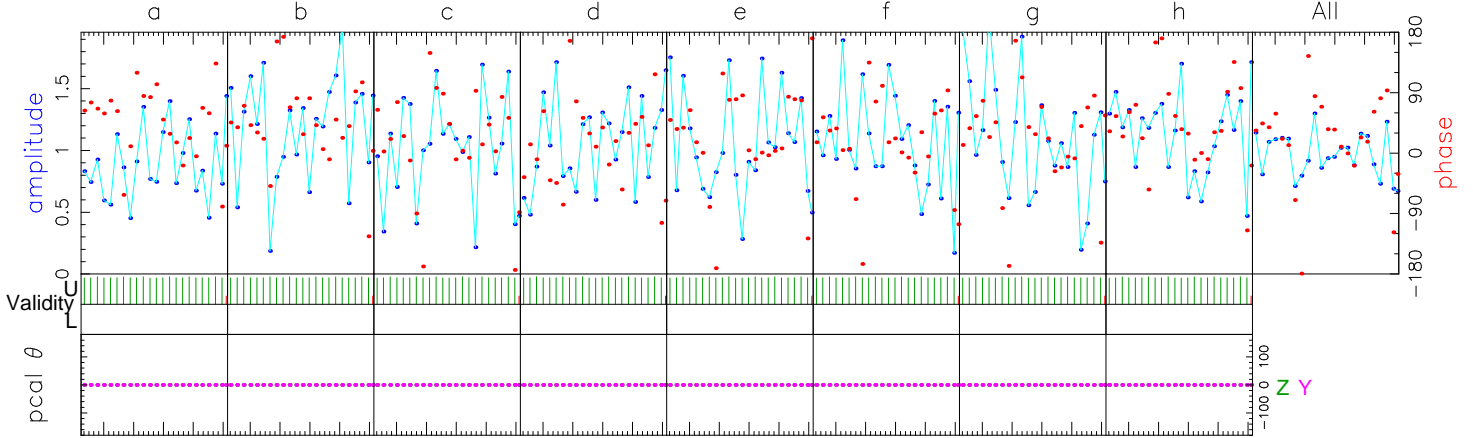
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007/ZY..00VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007/ZY.W.53.00VRI6



Fringe quality 9
 SNR 21.0
 Int time 277.291
 Amp 0.653
 Phase 39.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.003050
 MBD 0.002940
 Fringe rate (Hz)
 -0.006029
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125514.34
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085248
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



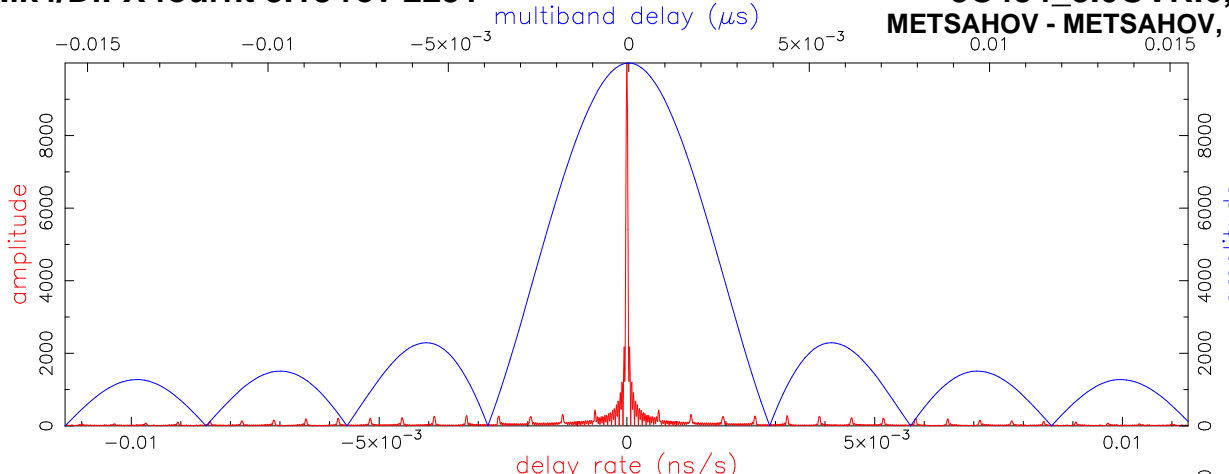
Amp. and Phase vs. time for each freq., 23 segs, 25 APs / seg (12.80 sec / seg.), time ticks 10 sec



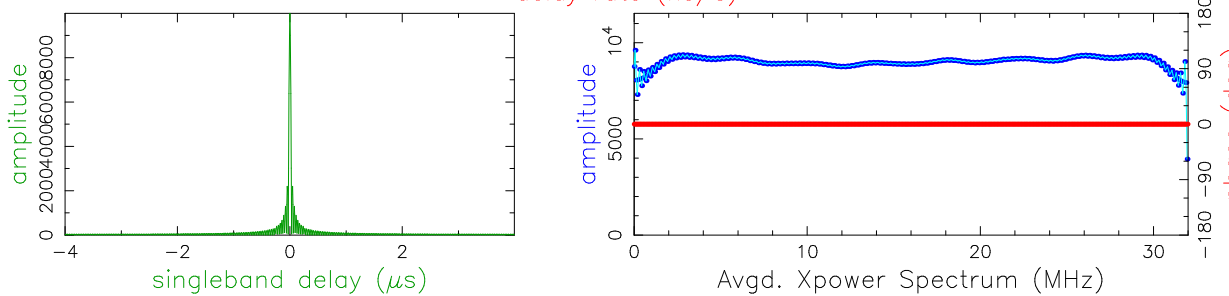
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	52.4	48.0	40.6	10.5	41.2	30.0	38.7	51.3	Phase	39.8
	0.6	0.8	0.6	0.6	0.7	0.6	0.6	0.7	Ampl.	0.7
	514.4	512.9	513.5	513.7	512.8	514.0	513.6	513.2	Sbd box	513.4
U/L	558/0	558/0	558/0	558/0	558/0	558/0	558/0	558/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
									Tracks	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
									Tracks	

Group delay (usec)(sbd)	-6.72549566330E+03	Apriori delay (usec)	-6.72549860299E+03	Resid mbdelay (usec)	2.93969E-03	+/-	1.0E-04		
Sband delay (usec)	-6.72549555349E+03	Apriori clock (usec)	-6.8747673E+00	Resid sbdelay (usec)	3.04950E-03	+/-	8.2E-04		
Phase delay (usec)	-6.72549860171E+03	Apriori clockrate (us/s)	3.5699999E-07	Resid phdelay (usec)	1.28262E-06	+/-	1.8E-07		
Delay rate (us/s)	4.49835476041E-02	Apriori rate (us/s)	4.49836175961E-02	Resid rate (us/s)	-6.99920E-08	+/-	1.1E-09		
Total phase (deg)	-198.4	Apriori accel (us/s/s)	4.26216030664E-05	Resid phase (deg)	39.8	+/-	5.5		
RMS	Theor.	Amplitude	0.653 +/- 0.031	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
61.8	13.1	Search (2048X32)	0.634	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000		
55.8	22.8	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.016 0.016	
14.8	7.7	Inc. seg. avg.	0.950	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.011 0.011		
11.5	13.5	Inc. frq. avg.	0.651	Data rate(Mb/s):	1024	ion window (TEC)	0.00 0.00		
Z: az 257.8 el 25.5 pa 30.4				Y: az 246.0 el 48.3 pa 46.5				u,v (fr/asec) -213.535 2835.037	
Control file: cf_1234_gmva				Input file: /Exps2/f191a/FRINGE/5555/No0007/ZY..00VRI6				Output file: /Exps2/f191a/FRINGE/5555/No0007/ZY.W.70.00VRI6	

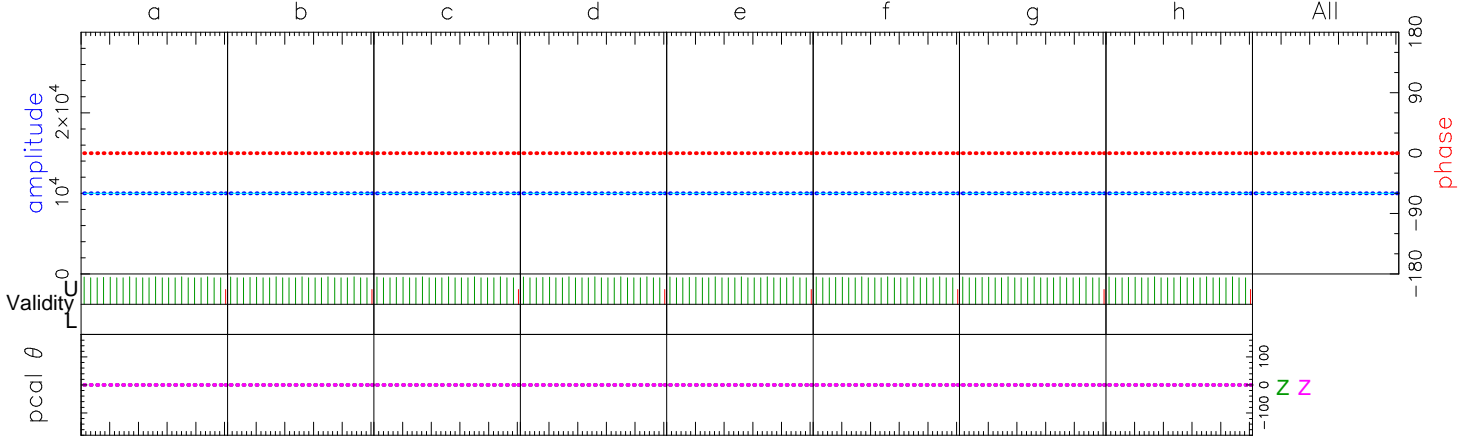
simultaneous interpolator



Fringe quality 9
 SNR 330349.0
 Int time 291.864
 Amp 9999.996
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085248
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

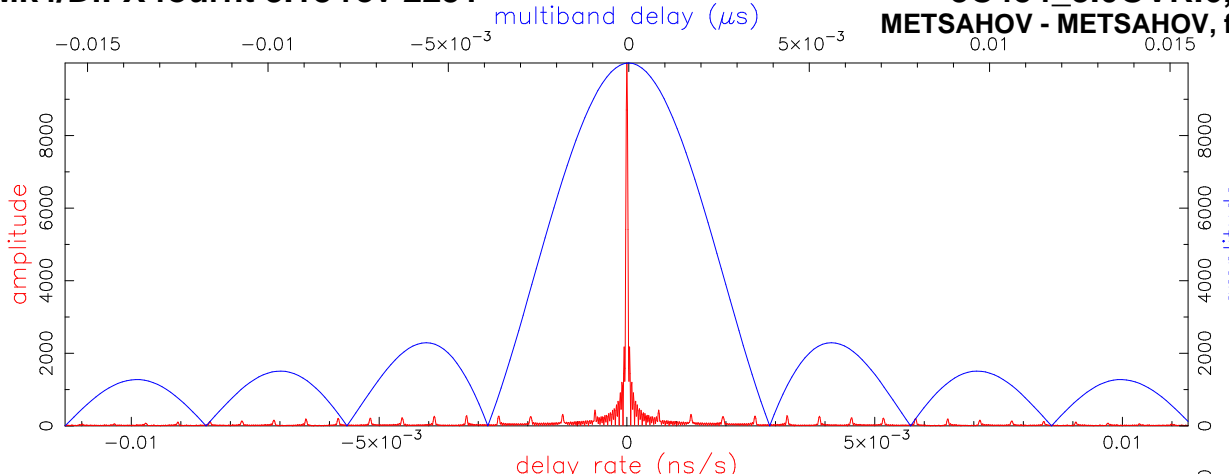


Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	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
513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0	Sbd box	513.0
U/L 586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
Z 0	0	0	0	0	0	0	0	PC freqs	
Z 0	0	0	0	0	0	0	0	PC phase	
Z:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
Z W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	6.6E-09		
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	5.2E-08		
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.1E-11		
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	6.5E-14		
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0		

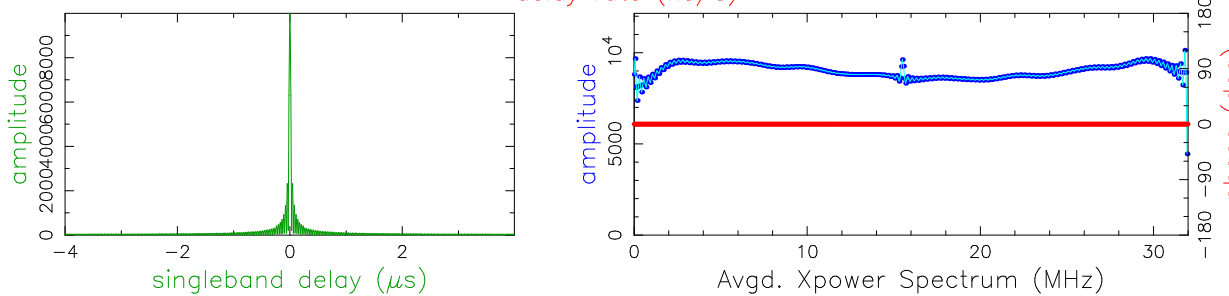
ph/seg (deg) 0.0 0.0 Theor. Amplitude 9999.996 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 9999.996 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 257.8 el 25.5 pa 30.4 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//ZZ..00VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//ZZ.W.73.00VRI6



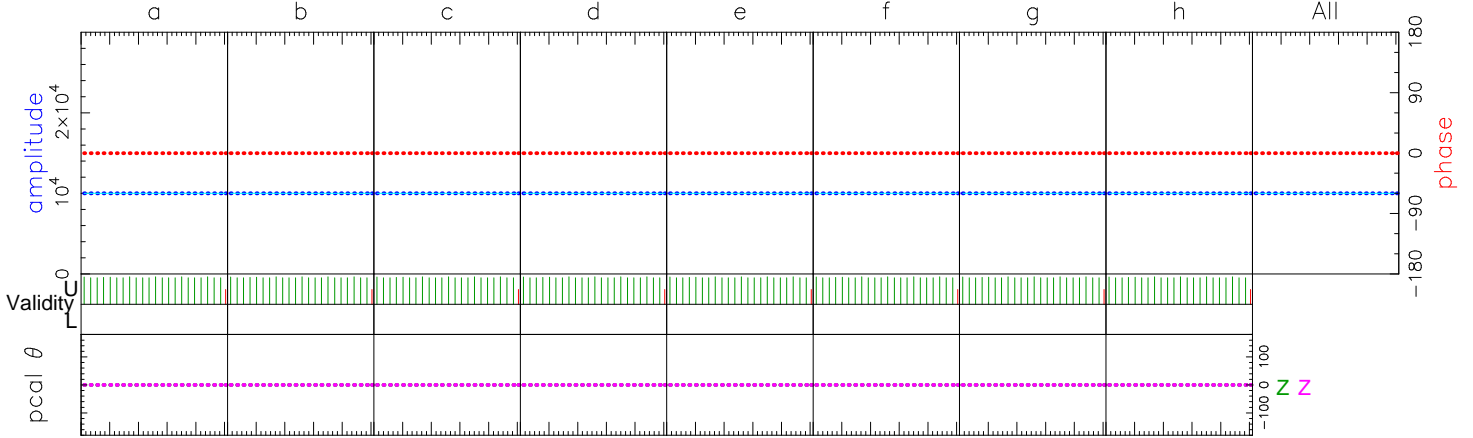
Fringe quality 9

SNR 330349.0
 Int time 291.864
 Amp 9999.996
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085254
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



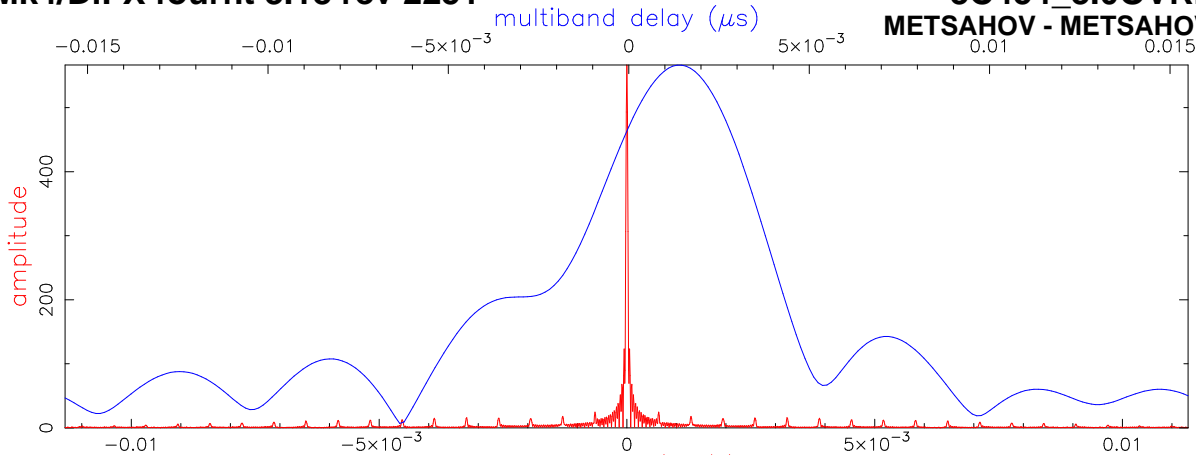
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0		
Z	0	0	0	0	0	0	0	0		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	6.6E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	5.2E-08
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.1E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	6.5E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

ph/seg (deg)	0.0	RMS	0.0	Theor.	0.0	Amplitude	9999.996 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	0.0	Search (2048X32)	0.000	Inc. seg. avg.	10000.000	Inc. frq. avg.	9999.996	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	10000.000	Inc. frq. avg.	9999.996	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0	Inc. seg. avg.	10000.000	Inc. frq. avg.	9999.996	Data rate (Mb/s):	1024	Sample rate (MSamp/s):	64	mb window (us)	-0.016 0.016
		Inc. frq. avg.	9999.996	u,v (fr/asec)	0.000 0.000	nlags:	512	t_cohere	infinite	dr window (ns/s)	-0.011 0.011

Z: az 257.8 el 25.5 pa 30.4 Z: az 257.8 el 25.5 pa 30.4 simultaneous interpolator

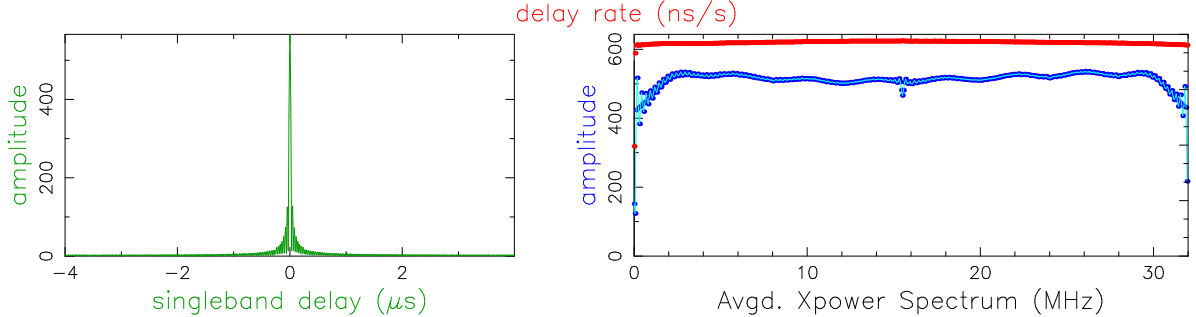
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//ZZ..00VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//ZZ.W.80.00VRI6



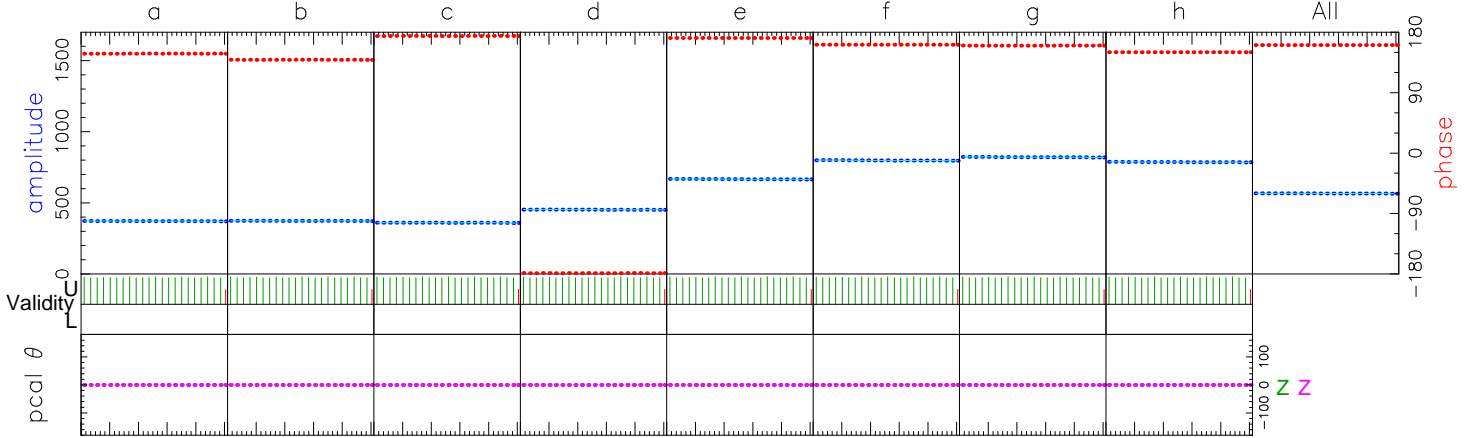
Fringe quality 7

SNR 18717.1
 Int time 291.864
 Amp 566.585
 Phase 160.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.000338
 MBD 0.001411
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085301
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

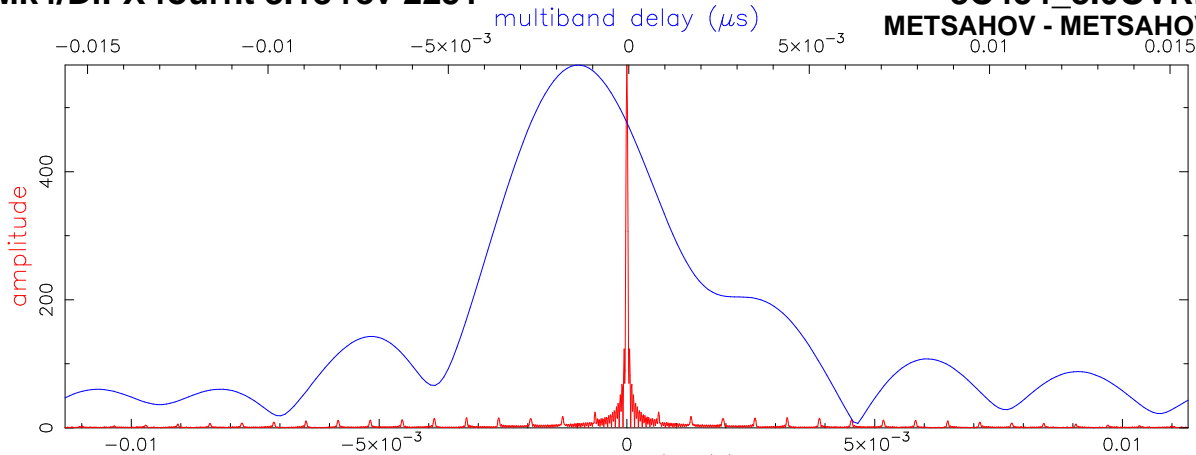


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	148.0	138.9	174.3	-178.6	171.2	161.2	160.0	150.1	Phase	160.7
	372.1	373.6	360.4	452.2	666.7	798.5	821.3	786.8	Ampl.	579.0
	511.7	513.8	513.4	513.1	512.9	513.2	513.1	512.9	Sbd box	513.0
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	

Group delay (usec)(sbd) 1.41143750000E-03 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) 1.41144E-03 +/- 1.2E-07
 Sband delay (usec) 3.38000000000E-04 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 3.38000E-04 +/- 9.2E-07
 Phase delay (usec) 5.18157224062E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 5.18157E-06 +/- 2.0E-10
 Delay rate (us/s) 2.83423047834E-12 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) 2.83423E-12 +/- 1.1E-12
 Total phase (deg) 160.7 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 160.7 +/- 0.0

RMS Theor. Amplitude 566.585 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 556.712 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 0.1 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 15.7 0.0 Inc. seg. avg. 566.479 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 34.6 0.0 Inc. frq. avg. 578.953 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

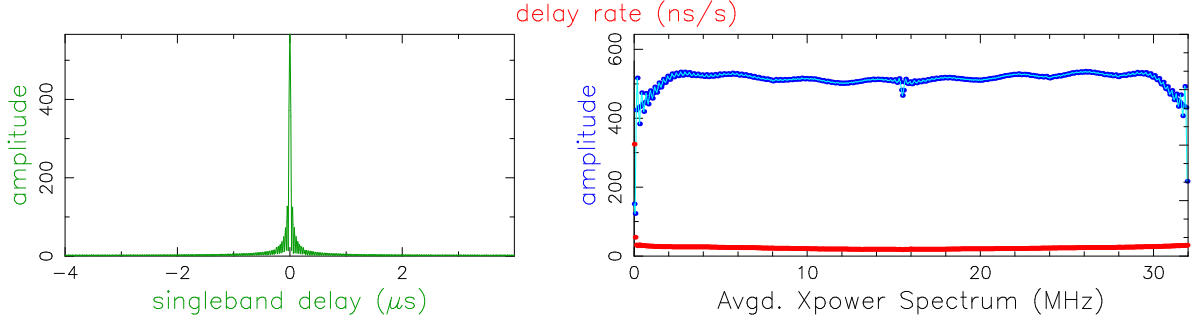
Z: az 257.8 el 25.5 pa 30.4 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//ZZ...00VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//ZZ.W.81.00VRI6



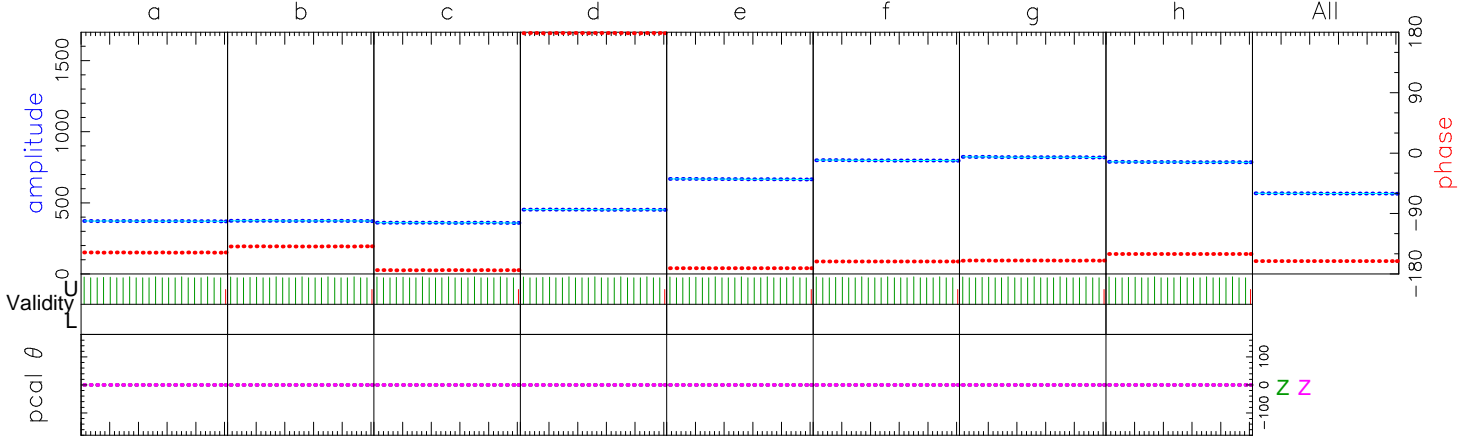
Fringe quality 7

SNR 18717.1
 Int time 291.864
 Amp 566.585
 Phase -160.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.000338
 MBD -0.001411
 Fringe rate (Hz)
 -0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085308
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-148.0	-138.9	-174.3	178.6	-171.2	-161.2	-160.0	-150.1	Phase	-160.7
	372.1	373.6	360.4	452.2	666.7	798.5	821.3	786.8	Ampl.	579.0
	514.3	512.2	512.6	512.9	513.1	512.8	512.9	513.1	Sbd box	513.0
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Z									Chan ids	
Z									Tracks	

Group delay (usec)(sbd) -1.41143750000E-03 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) -1.41144E-03 +/- 1.2E-07
 Sband delay (usec) -3.38000000000E-04 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) -3.38000E-04 +/- 9.2E-07
 Phase delay (usec) -5.18157224075E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -5.18157E-06 +/- 2.0E-10
 Delay rate (us/s) -2.83423047834E-12 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -2.83423E-12 +/- 1.1E-12
 Total phase (deg) -160.7 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) -160.7 +/- 0.0

RMS Theor. Amplitude 566.585 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 556.712 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
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 ph/frq (deg) 15.7 0.0 Inc. seg. avg. 566.479 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 34.6 0.0 Inc. frq. avg. 578.953 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 257.8 el 25.5 pa 30.4 Z: az 257.8 el 25.5 pa 30.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007/ZZ...00VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007/ZZ.W.82.00VRI6