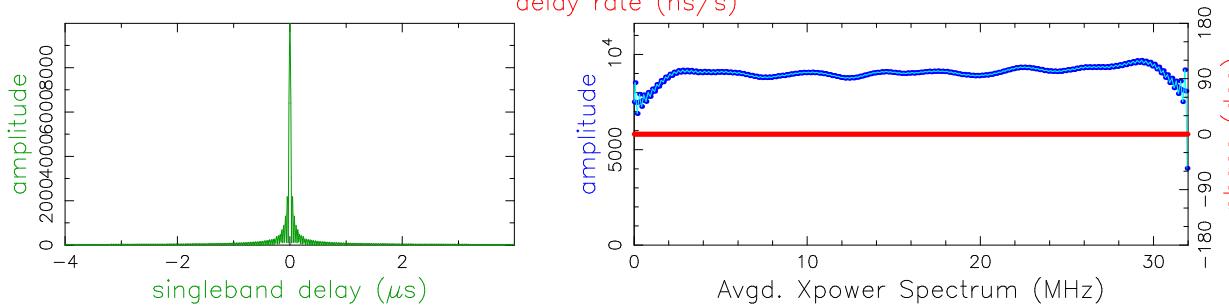
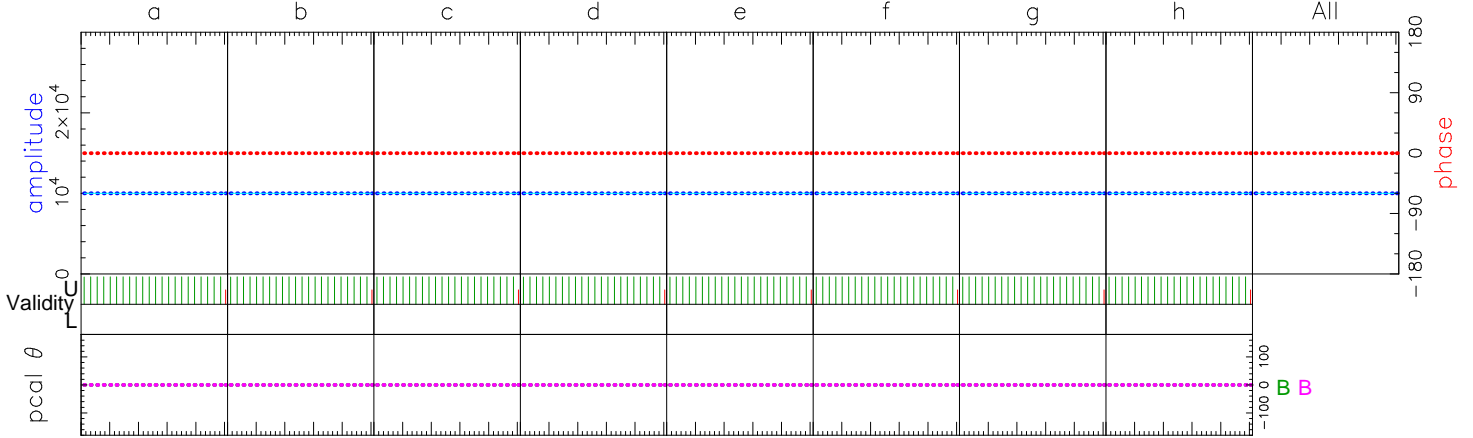


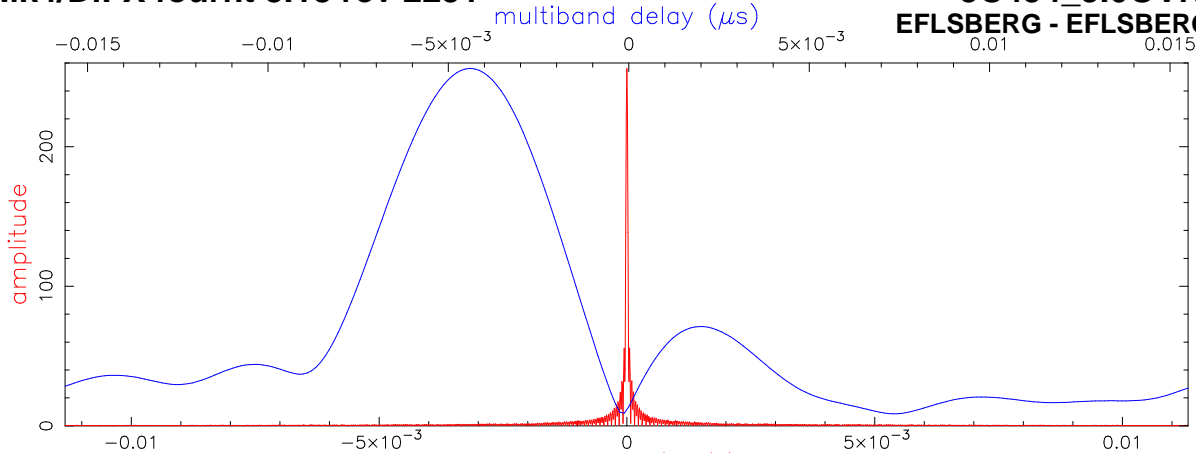
Fringe quality 9
 SNR 334807.7
 Int time 299.796
 Amp 9999.999
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 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



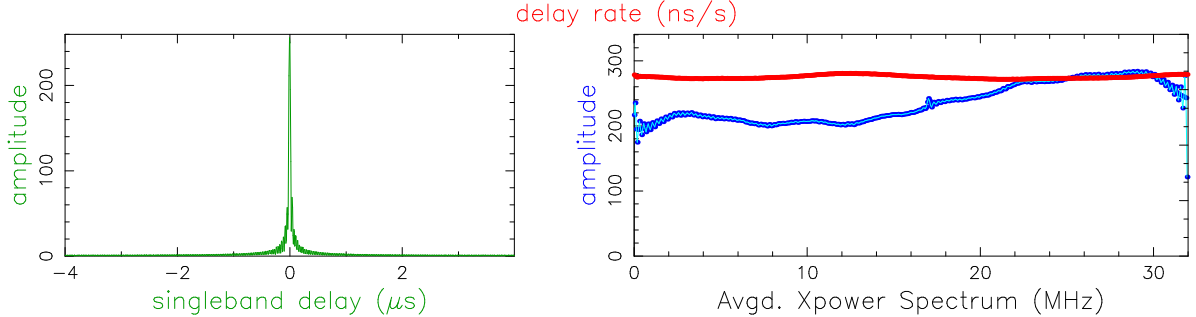
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0		
B	0	0	0	0	0	0	0	0		
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 6.5E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 5.1E-08
Phase delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 1.1E-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	+/- 6.4E-14
Total phase (deg)			0.0						0.0	+/- 0.0
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
PC period (AP's) 5, 5										
sb window (us)										-4.000 4.000
mb window (us)										-0.016 0.016
dr window (ns/s)										-0.011 0.011
ion window (TEC)										0.00 0.00
nlags: 512 t_cohere infinite										
simultaneous interpolator										



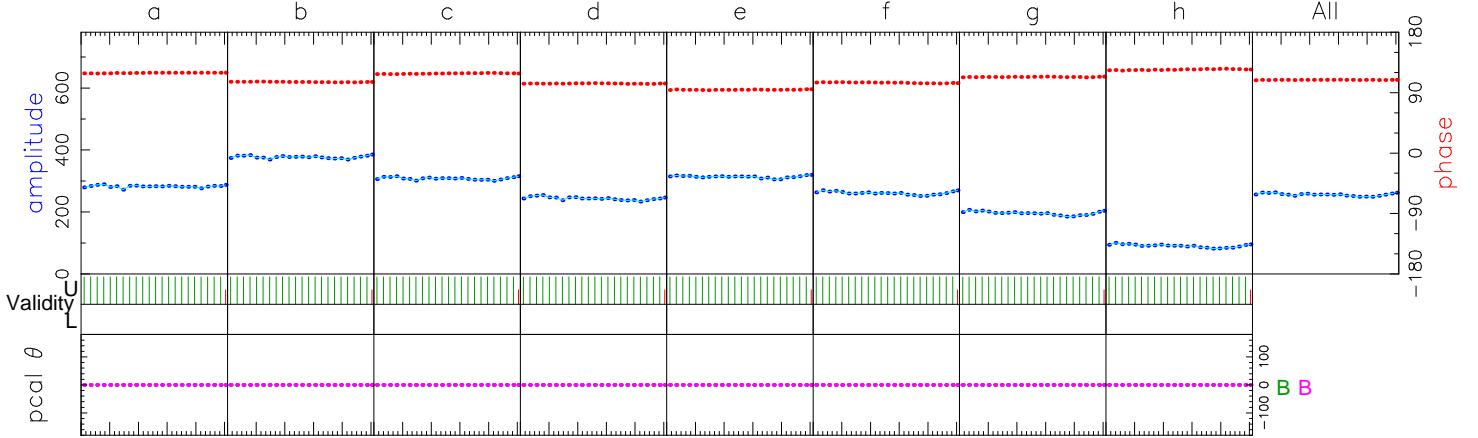
Fringe quality 8

SNR 8707.0
 Int time 299.796
 Amp 260.059
 Phase 108.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.004778
 MBD -0.004317
 Fringe rate (Hz) 0.000002
 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
 2019:176:085239
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

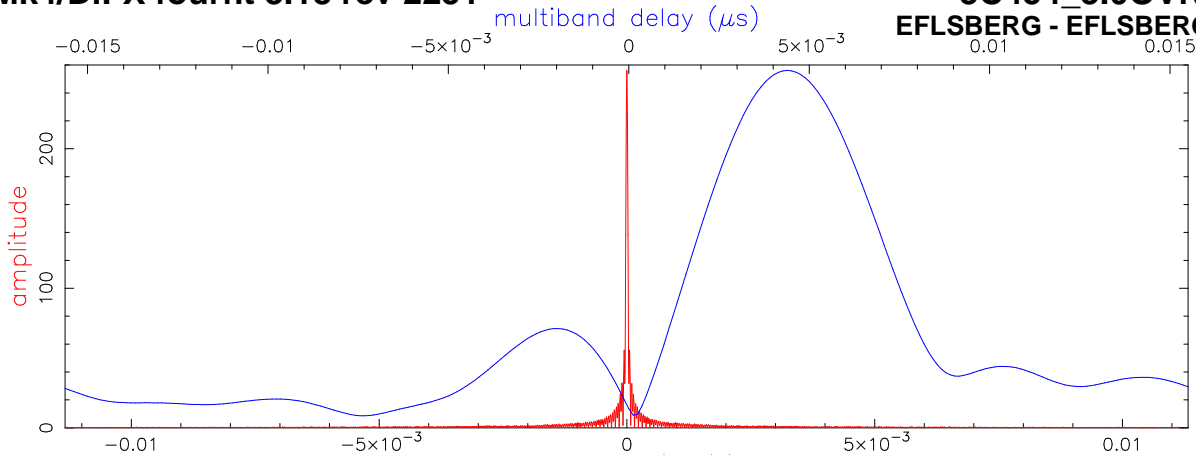


Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	119.3	105.9	118.4	103.5	94.3	104.8	113.3	124.2	Phase	108.9
	282.7	377.1	308.1	243.8	313.6	261.0	196.3	90.8	Ampl.	259.2
	511.8	512.5	512.6	511.7	513.1	512.1	512.8	513.4	Sbd box	512.4
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	
B	0	0	0	0	0	0	0	0	PC freqs	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.31662500000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-4.31663E-03	+/- 2.5E-07
Sband delay (usec)	-4.77800000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-4.77800E-03	+/- 2.0E-06
Phase delay (usec)	3.51224076467E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		3.51224E-06	+/- 4.2E-10
Delay rate (us/s)	2.05481709679E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		2.05482E-11	+/- 2.5E-12
Total phase (deg)	108.9		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		108.9	+/- 0.0

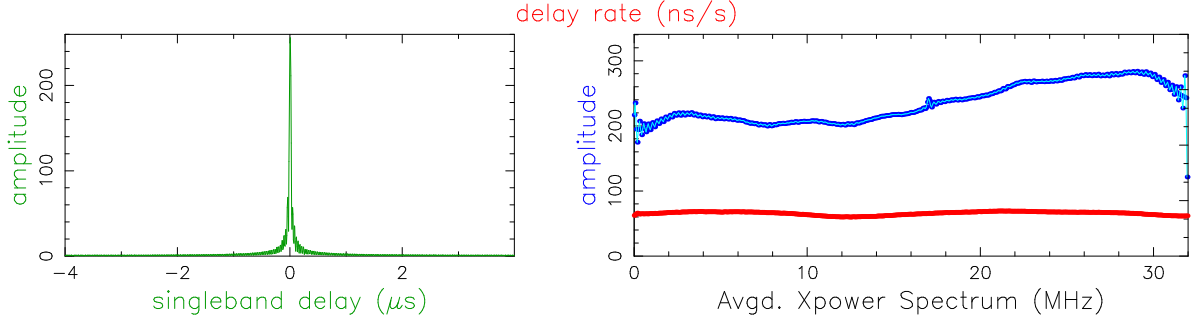
ph/seg (deg) 0.2 0.0 Theor. Amplitude 260.059 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 2.2 0.1 Search (2048X32) 250.971 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 11.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 31.1 0.0 Inc. seg. avg. 256.036 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 B: az 247.2 el 37.9 pa 37.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//BB..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//BB.W.47.0OVRI6



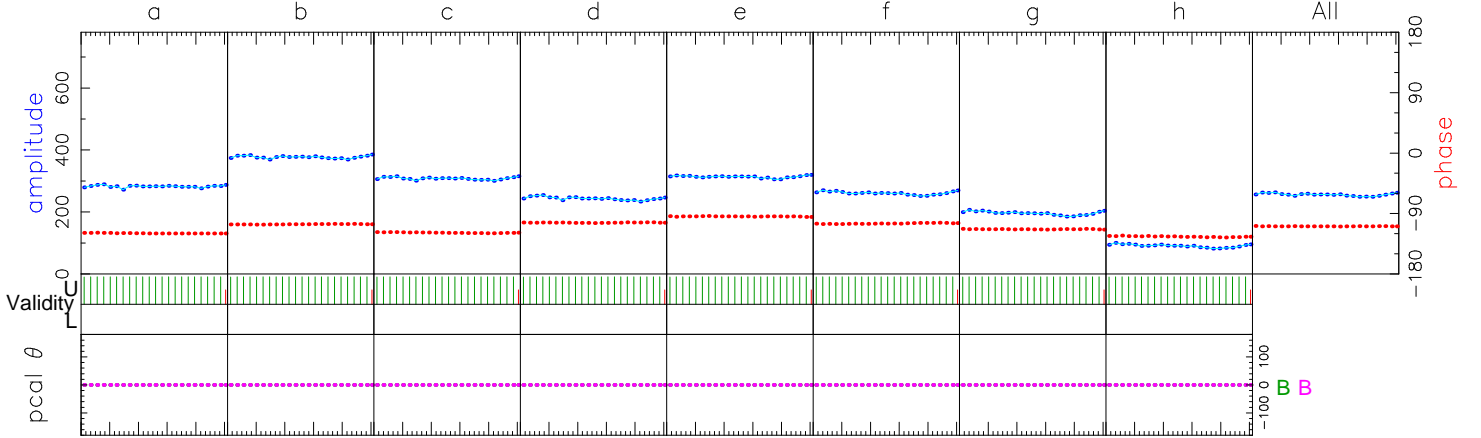
Fringe quality 8

SNR 8707.0
 Int time 299.796
 Amp 260.059
 Phase -108.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.004778
 MBD 0.004317
 Fringe rate (Hz)
 -0.000002
 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
 2019:176:085247
 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

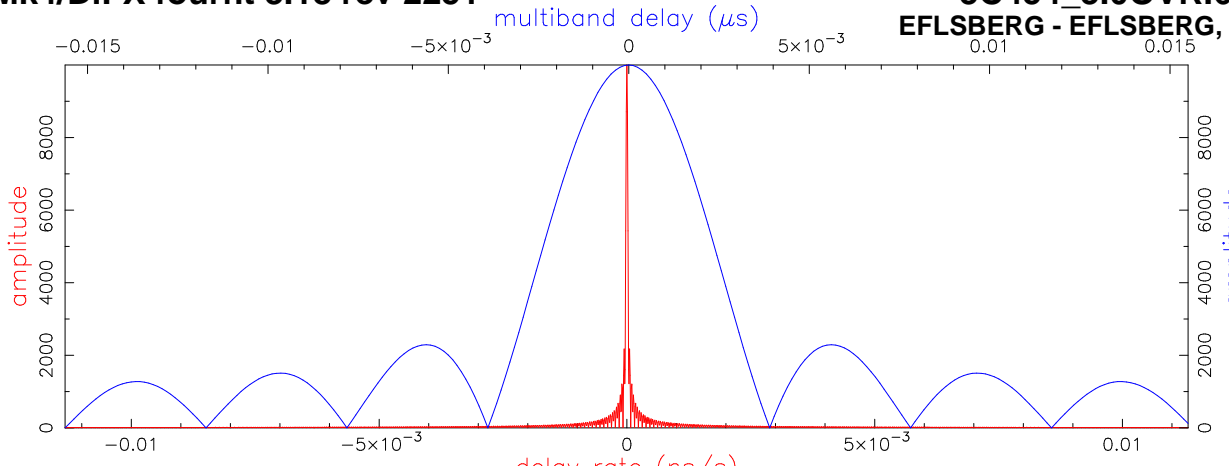


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-119.3	-105.9	-118.4	-103.5	-94.3	-104.8	-113.3	-124.2	Phase	-108.9
	282.7	377.1	308.1	243.8	313.6	261.0	196.3	90.8	Ampl.	259.2
	514.2	513.5	513.4	514.3	512.9	513.9	513.2	512.6	Sbd box	513.6
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
B	0	0	0	0	0	0	0	0	PC freqs	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

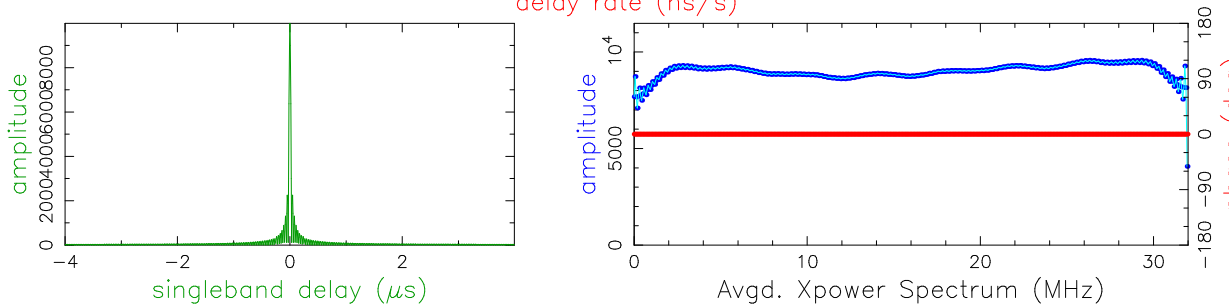
Group delay (usec)(sbd) 4.31662500000E-03 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) 4.31663E-03 +/- 2.5E-07
 Sband delay (usec) 4.77800000000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 4.77800E-03 +/- 2.0E-06
 Phase delay (usec) -3.51224076470E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -3.51224E-06 +/- 4.2E-10
 Delay rate (us/s) -2.05481709679E-11 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -2.05482E-11 +/- 2.5E-12
 Total phase (deg) -108.9 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) -108.9 +/- 0.0

RMS Theor. Amplitude 260.059 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.2 0.0 Search (2048X32) 250.971 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 2.2 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 11.0 0.0 Inc. seg. avg. 256.036 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 31.1 0.0 Inc. frq. avg. 259.181 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

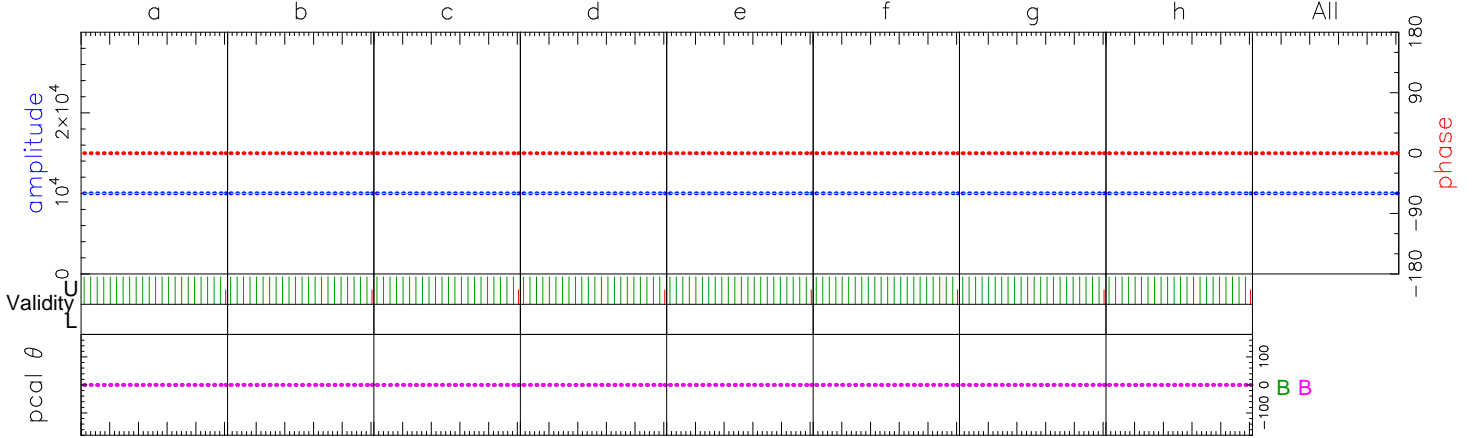
B: az 247.2 el 37.9 pa 37.5 B: az 247.2 el 37.9 pa 37.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//BB..00VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//BB.W.66.00VRI6



Fringe quality 9
 SNR 334807.7
 Int time 299.796
 Amp 9999.999
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 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"

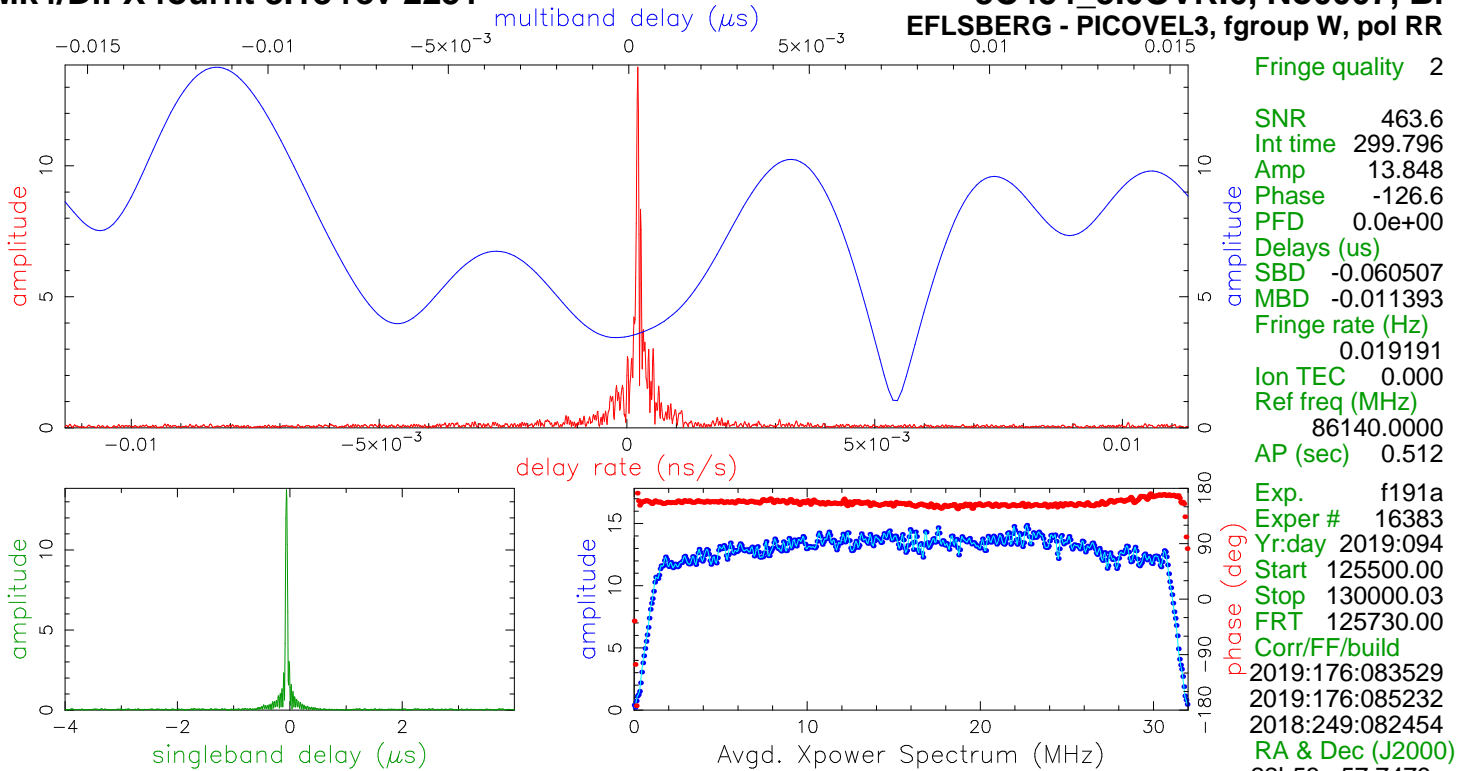


Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

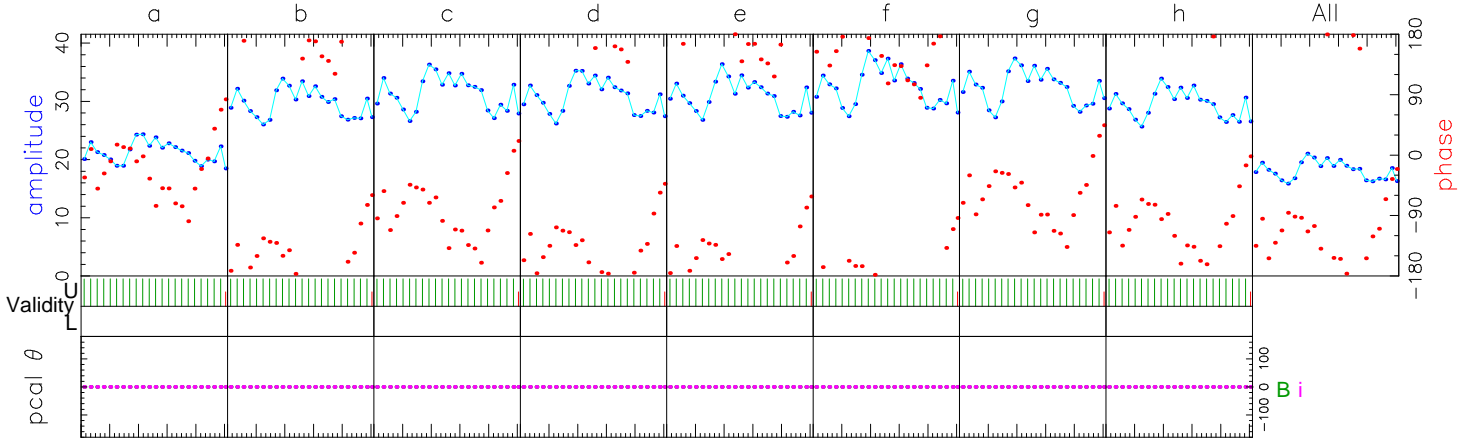


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0		
B	0	0	0	0	0	0	0	0		
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 6.5E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 5.1E-08
Phase delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 1.1E-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	+/- 6.4E-14
Total phase (deg)			0.0						0.0	+/- 0.0

ph/seg (deg) 0.0 0.0 Theor. Amplitude 9999.999 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 9999.999 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
 B: az 247.2 el 37.9 pa 37.5 B: az 247.2 el 37.9 pa 37.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//BB..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//BB.W.8.0OVRI6

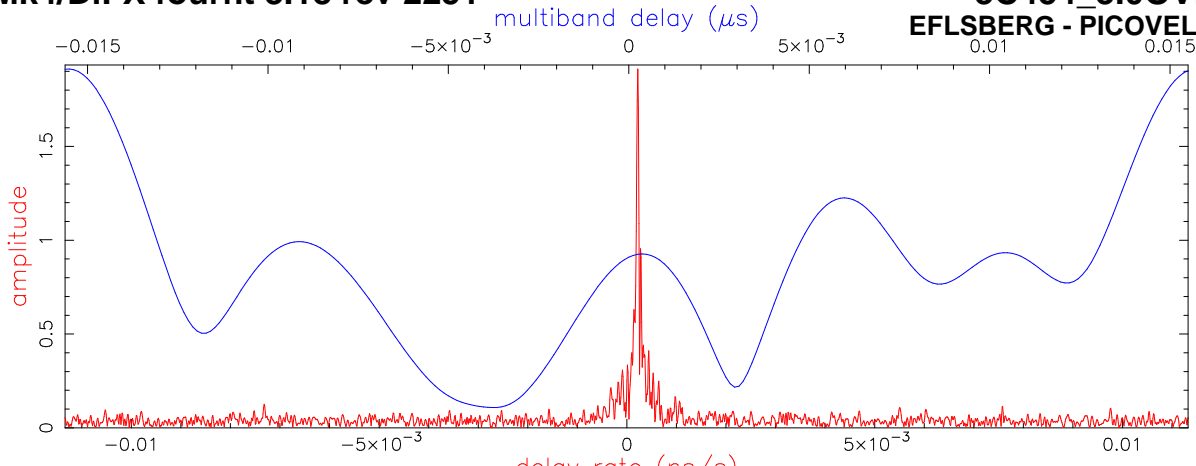


Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-23.0	-163.7	-84.9	-148.3	-167.2	160.5	-61.8	-107.6	Phase	-126.6
	16.2	22.5	23.8	23.4	23.4	24.7	24.5	22.2	Ampl.	22.6
	503.2	504.1	504.8	504.9	505.2	505.2	505.0	505.0	Sbd box	505.3
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	
i	0	0	0	0	0	0	0	0	PC freqs	
B:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000		
B	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)	-3.16781664124E+03		Apriori delay (usec)	-3.16774274808E+03	Resid mbdelay (usec)	-1.13932E-02	+/-	4.7E-06		
Sband delay (usec)	-3.16780325508E+03		Apriori clock (usec)	2.0462181E+01	Resid sbdelay (usec)	-6.05070E-02	+/-	3.7E-05		
Phase delay (usec)	-3.16774275217E+03		Apriori clockrate (us/s)	5.3000000E-08	Resid phdelay (usec)	-4.08333E-06	+/-	8.0E-09		
Delay rate (us/s)	3.44394129752E-02		Apriori rate (us/s)	3.44391901913E-02	Resid rate (us/s)	2.22784E-07	+/-	4.6E-11		
Total phase (deg)		-241.7	Apriori accel (us/s/s)	2.22898763986E-05	Resid phase (deg)			0.2		

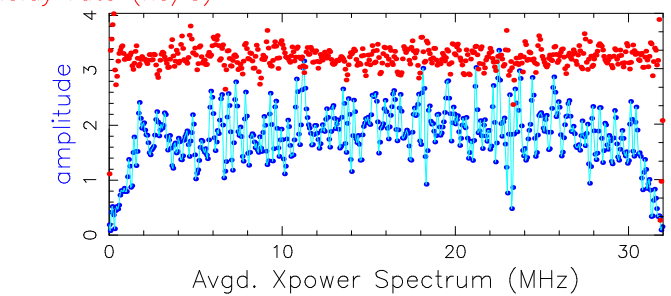
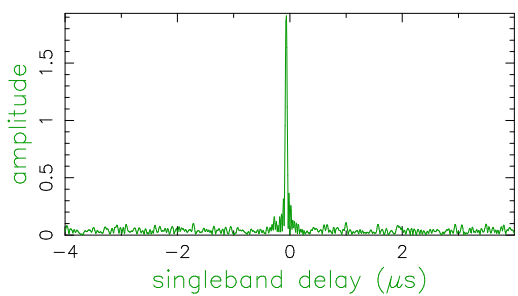
RMS Theor. Amplitude 13.848 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 42.8 0.6 Search (2048X32) 13.654 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 33.2 1.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 65.6 0.3 Inc. seg. avg. 18.205 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 65.7 0.6 Inc. frq. avg. 22.588 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 i: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -176.511 1949.312 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//Bi..0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007//Bi.W.31.0OVR16



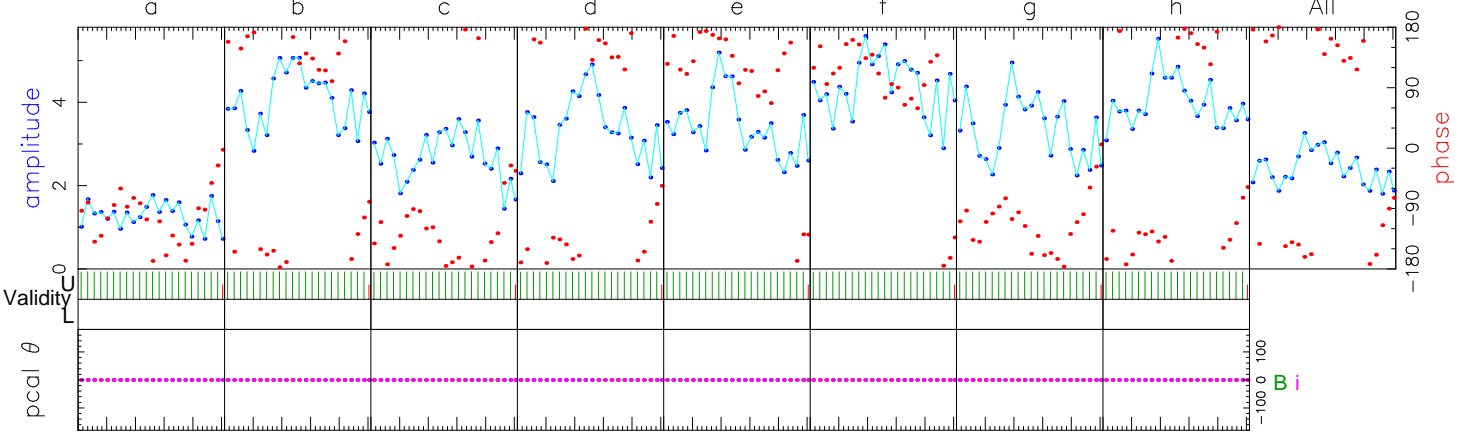
Fringe quality 2

SNR 64.8
 Int time 299.796
 Amp 1.934
 Phase -177.8
 PFD 0.0e+00
 Delays (us)
 SBD -0.065271
 MBD -0.015587
 Fringe rate (Hz)
 0.019220
 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
 2019:176:085241
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



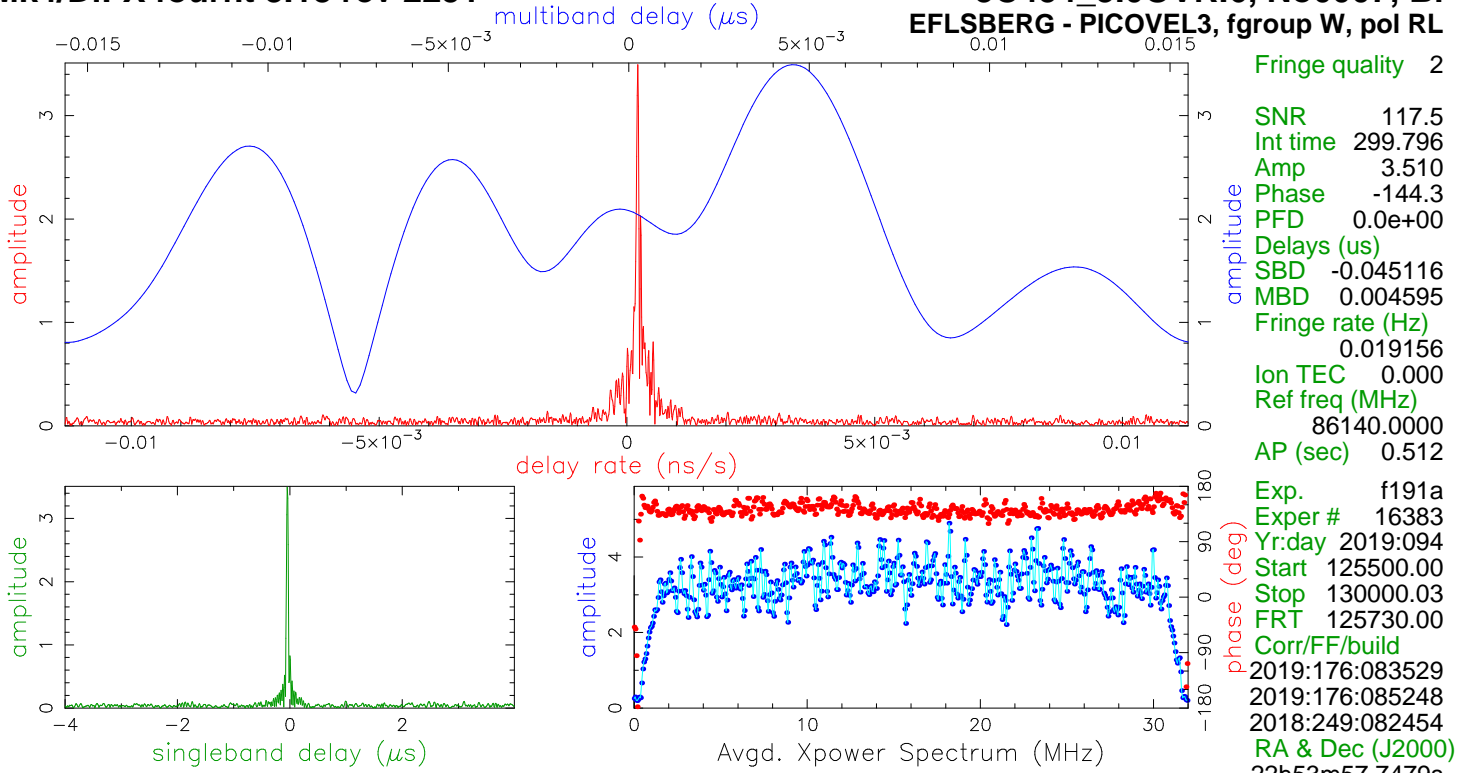
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-106.3	168.2	-141.6	-177.7	138.7	119.4	-115.8	-157.7	Phase	-177.8
	1.0	3.1	2.1	2.6	2.7	3.4	2.7	3.1	Ampl.	2.6
	502.4	504.2	503.8	504.9	504.6	504.5	504.5	504.5	Sbd box	504.6
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	
i	0	0	0	0	0	0	0	0	PC freqs	
B:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.16782083517E+03		Apriori delay (usec)		-3.16774274808E+03		Resid mbdelay (usec)		-1.55871E-02	+/- 3.4E-05
Sband delay (usec)	-3.16780801908E+03		Apriori clock (usec)		2.0462181E+01		Resid sbdelay (usec)		-6.52710E-02	+/- 2.7E-04
Phase delay (usec)	-3.16774275381E+03		Apriori clockrate (us/s)		5.3000000E-08		Resid phdelay (usec)		-5.73202E-06	+/- 5.7E-08
Delay rate (us/s)	3.44394133132E-02		Apriori rate (us/s)		3.44391901913E-02		Resid rate (us/s)		2.23122E-07	+/- 3.3E-10
Total phase (deg)			Apriori accel (us/s/s)		2.22898763986E-05		Resid phase (deg)		-177.8	+/- 1.8

RMS Theor. Amplitude 1.934 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 40.5 4.2 Search (2048X32) 1.905 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 32.8 7.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 52.8 2.5 Inc. seg. avg. 2.422 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 (%) 49.8 4.4 Inc. frq. avg. 2.586 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 i: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -176.511 1949.312 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//Bi..0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007//Bi.W.56.0OVR16



Fringe quality 2

SNR 117.5

Int time 299.796

Amp 3.510

Phase -144.3

PFD 0.0e+00

Delays (us)

SBD -0.045116

MBD 0.004595

Fringe rate (Hz) 0.019156

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

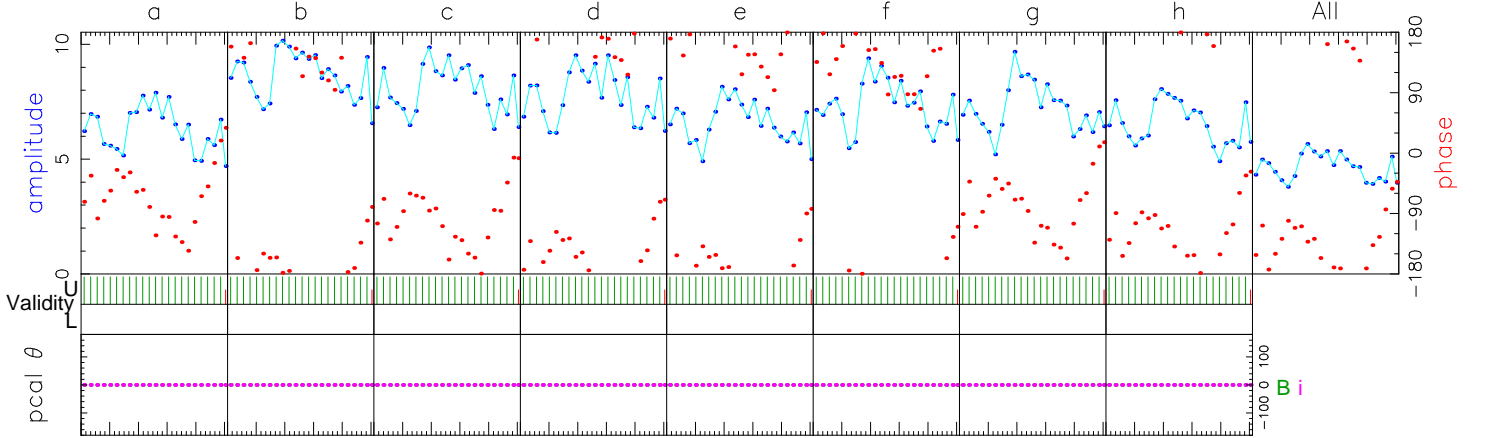
2018:249:082454

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
	-69.9	168.9	-100.7	-163.5	173.8	141.4	-81.4	-124.3	Phase	-144.3
	4.8	6.5	6.1	5.8	5.0	5.5	5.4	5.0	Ampl.	5.5
	505.6	506.4	506.9	506.9	507.3	507.2	507.1	507.0	Sbd box	507.2
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	
i	0	0	0	0	0	0	0	0	PC freqs	
B:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.16780065286E+03		Apriori delay (usec)		-3.16774274808E+03		Resid mbdelay (usec)		4.59522E-03	+/- 1.8E-05
Sband delay (usec)	-3.16778786408E+03		Apriori clock (usec)		2.0462181E+01		Resid sbdelay (usec)		-4.51160E-02	+/- 1.5E-04
Phase delay (usec)	-3.16774275274E+03		Apriori clockrate (us/s)		5.3000000E-08		Resid phdelay (usec)		-4.65331E-06	+/- 3.1E-08
Delay rate (us/s)	3.44394125714E-02		Apriori rate (us/s)		3.44391901913E-02		Resid rate (us/s)		2.2380E-07	+/- 1.8E-10
Total phase (deg)			Apriori accel (us/s/s)		2.22898763986E-05		Resid phase (deg)		-144.3	+/- 1.0

RMS Theor. Amplitude 3.510 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 43.4 2.3 Search (2048X32) 3.444 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000

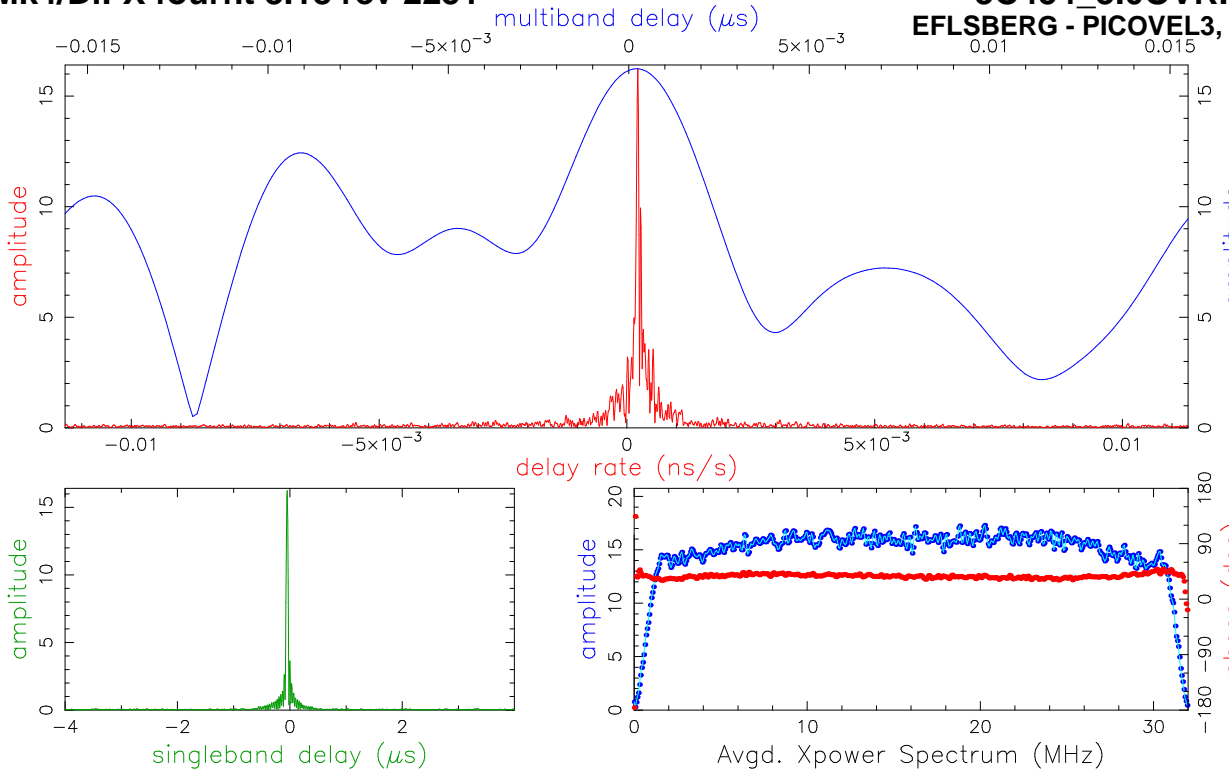
amp/seg (%) 36.5 4.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

ph/frq (deg) 60.0 1.4 Inc. seg. avg. 4.666 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 (%) 59.1 2.4 Inc. frq. avg. 5.503 ion window (TEC) 0.00 0.00

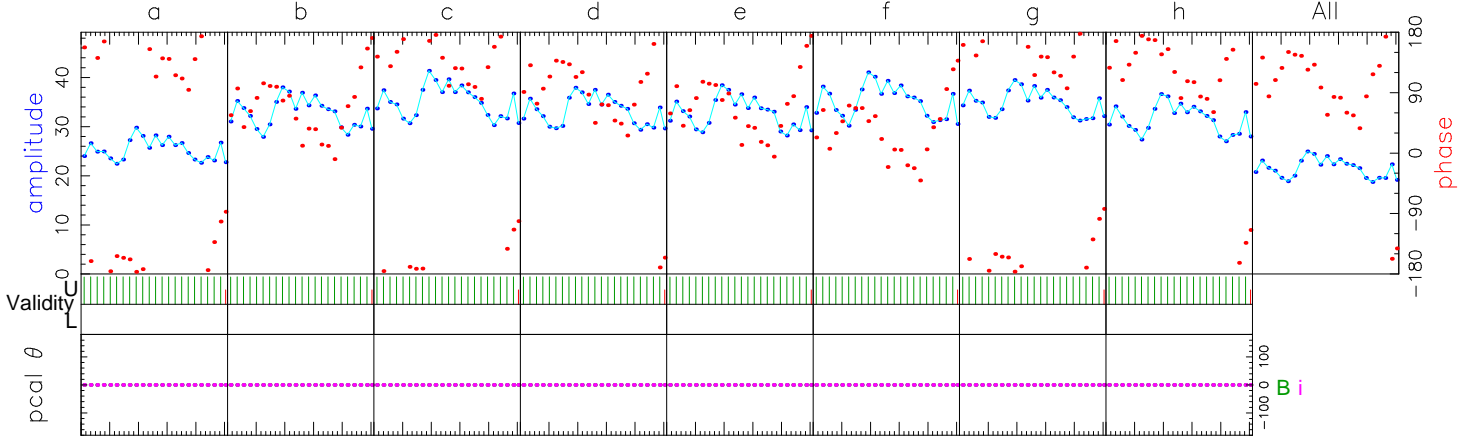
B: az 247.2 el 37.9 pa 37.5 i: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -176.511 1949.312 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//Bi..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//Bi.W.75.0OVRI6



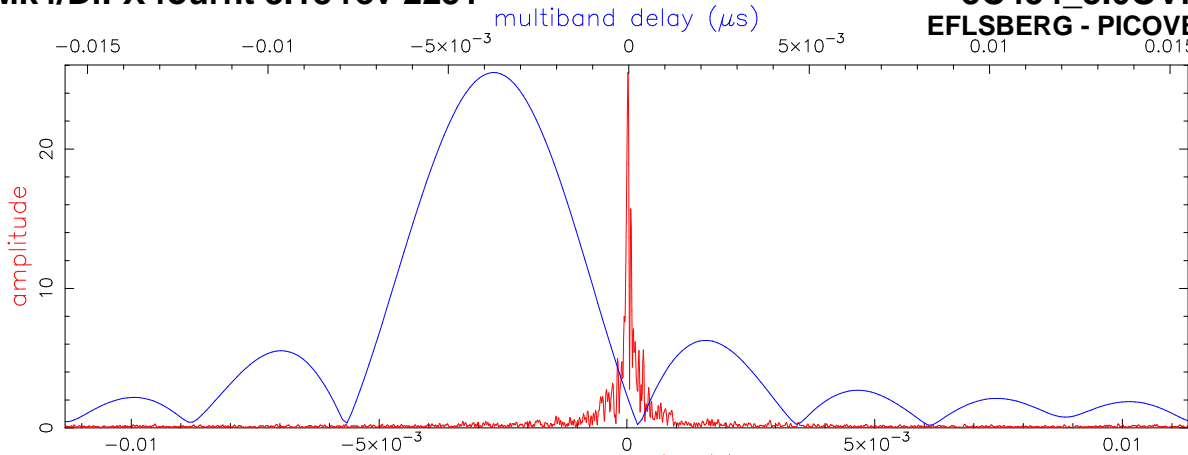
Fringe quality 2
 SNR 549.3
 Int time 299.796
 Amp 16.410
 Phase 111.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.049517
 MBD 0.000160
 Fringe rate (Hz) 0.019161
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 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
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0		
B	0	0	0	0	0	0	0	0	APs used	
i	0	0	0	0	0	0	0	0	PC freqs	
B:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.16780508805E+03		Apriori delay (usec)		-3.16774274808E+03		Resid mbdelay (usec)		1.60032E-04	+/- 4.0E-06
Sband delay (usec)	-3.16779226508E+03		Apriori clock (usec)		2.0462181E+01		Resid sbdelay (usec)		-4.95170E-02	+/- 3.1E-05
Phase delay (usec)	-3.16774274450E+03		Apriori clockrate (us/s)		5.3000000E-08		Resid phdelay (usec)		3.58612E-06	+/- 6.7E-09
Delay rate (us/s)	3.44394126295E-02		Apriori rate (us/s)		3.44391901913E-02		Resid rate (us/s)		2.22438E-07	+/- 3.9E-11
Total phase (deg)			Apriori accel (us/s/s)		2.22898763986E-05		Resid phase (deg)		111.2	+/- 0.2

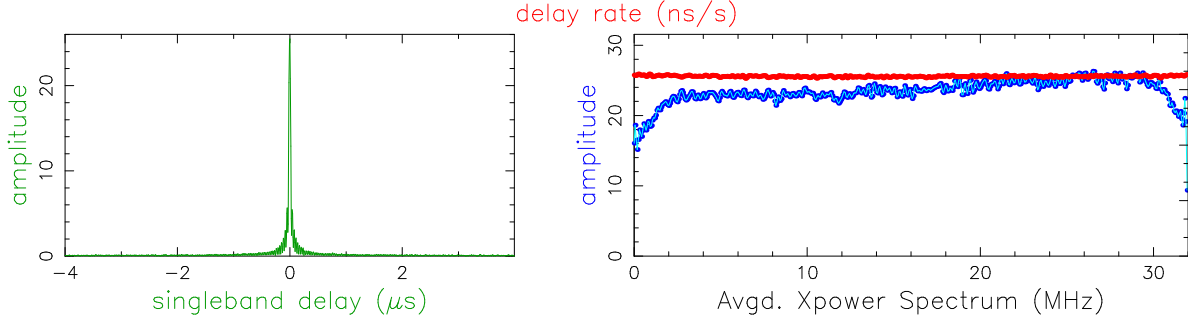
ph/seg (deg) 43.0 0.5 Theor. Amplitude 16.410 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 33.3 0.9 Search (2048X32) 16.158 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 57.1 0.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 52.1 0.5 Inc. seg. avg. 21.557 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. 24.650 u.v (fr/asec) -176.511 1949.312 ion window (TEC) 0.00 0.00
 B: az 247.2 el 37.9 pa 37.5 i: az 249.4 el 49.9 pa 51.2 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//Bi..0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007//Bi.W.9.0OVR16



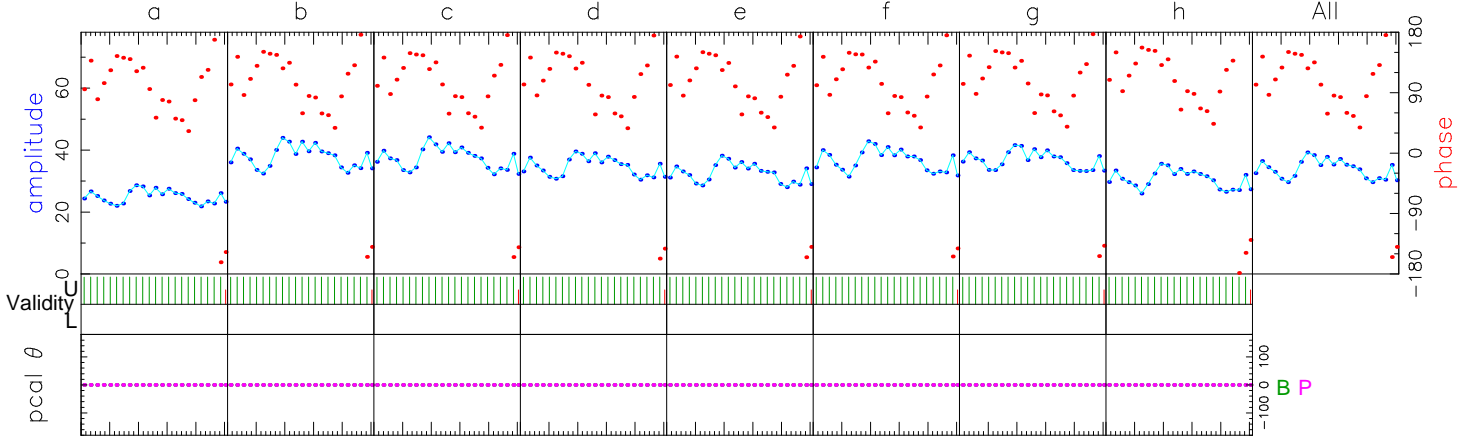
Fringe quality 6

SNR 866.9
 Int time 296.645
 Amp 26.029
 Phase 112.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.003641
 MBD -0.003835
 Fringe rate (Hz) 0.001979
 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
 2019:176:085225
 2018:249:082454
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



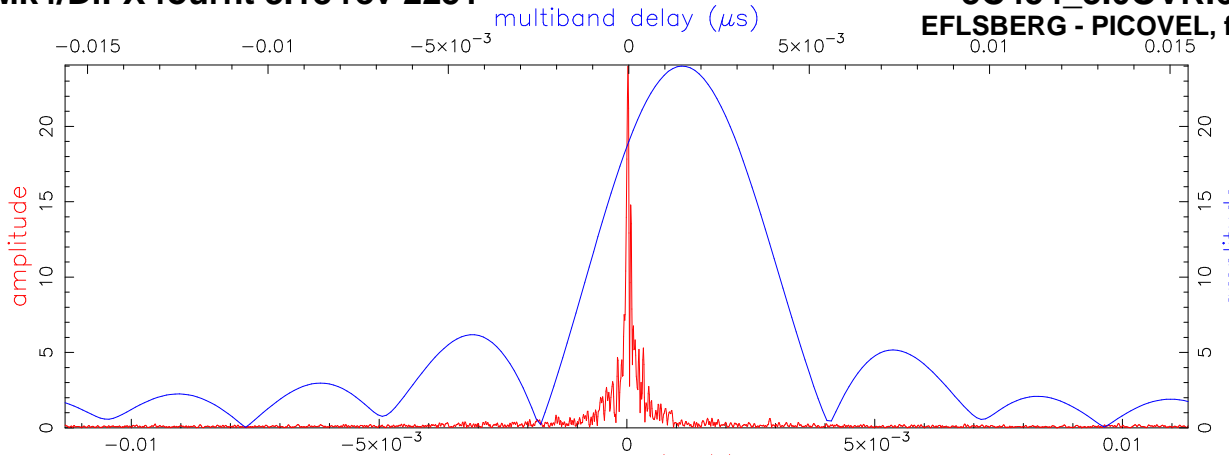
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	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		
B	0	0	0	0	0	0	0	0	APs used	
P	0	0	0	0	0	0	0	0	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	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)	-3.16823089264E+03					-3.16822705808E+03			Resid mbdelay (usec)	-3.83456E-03 +/- 2.5E-06
Sband delay (usec)	-3.16823069958E+03					1.9977873E+01			Resid sbdelay (usec)	-3.64150E-03 +/- 2.0E-05
Phase delay (usec)	-3.16822705446E+03					2.5300001E-07			Resid phdelay (usec)	3.62613E-06 +/- 4.3E-09
Delay rate (us/s)	3.44394131641E-02					3.44393901913E-02			Resid rate (us/s)	2.29729E-08 +/- 2.5E-11
Total phase (deg)		-169.5				2.22898763986E-05			Resid phase (deg)	112.4 +/- 0.1
	RMS	Theor.	Amplitude	26.029 +/- 0.030					Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	43.4	0.3	Search (2048X32)	25.410					Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -4.000 4.000
amp/seg (%)	32.4	0.6	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.016 0.016
ph/frq (deg)	3.6	0.2	Inc. seg. avg.	33.963					Sample rate(MSamp/s): 64	dr window (ns/s) -0.011 0.011
amp/frq (%)	12.2	0.3	Inc. frq. avg.	25.502					Data rate(Mb/s): 1024	ion window (TEC) 0.00 0.00
									nlags: 512 t_cohere infinite	

B: az 247.2 el 37.9 pa 37.5 P: az 249.4 el 49.9 pa 51.2 u.v (fr/asec) -176.511 1949.312 simultaneous interpolator

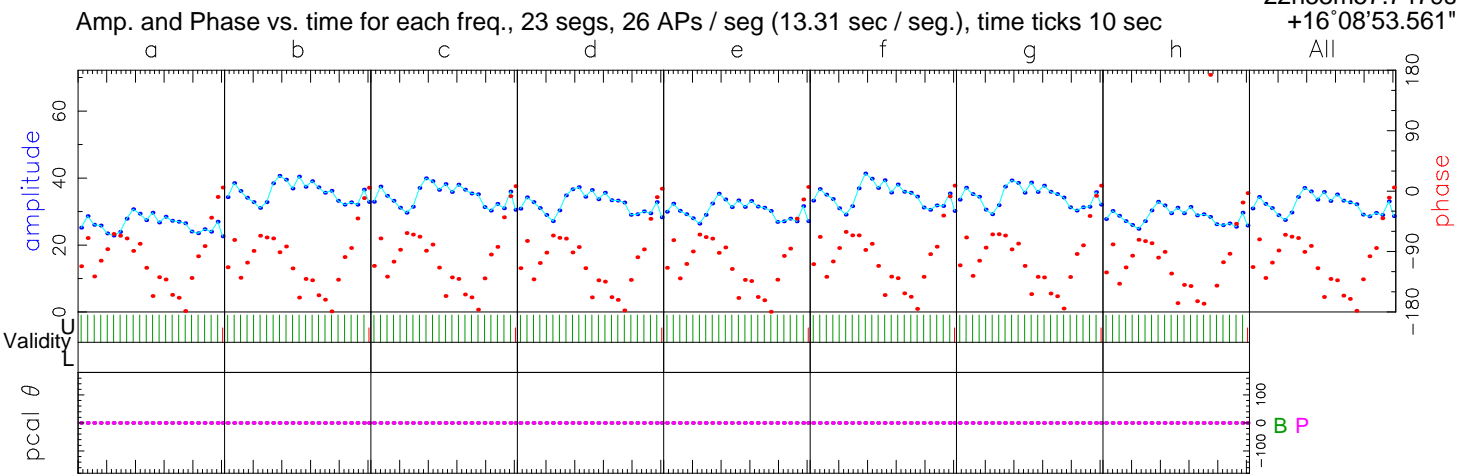
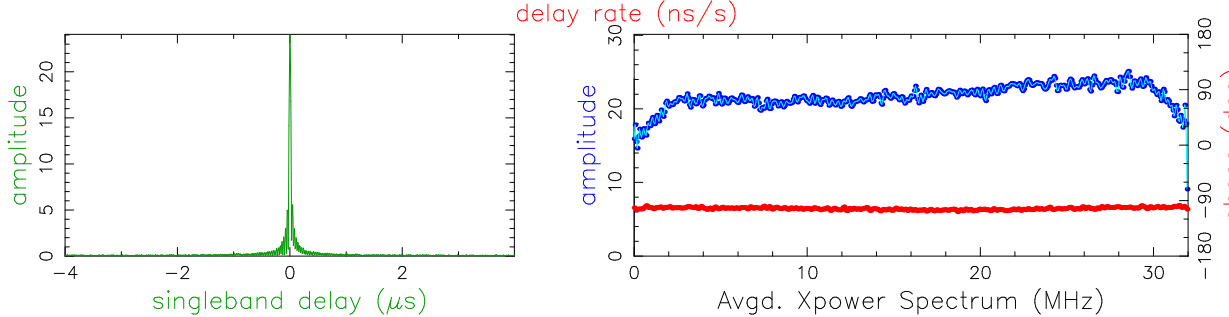
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//BP..0VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//BP.W.18.0OVRI6



Fringe quality 6

SNR 801.8
 Int time 296.645
 Amp 24.074
 Phase -103.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.001380
 MBD 0.001517
 Fringe rate (Hz)
 0.002000
 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"

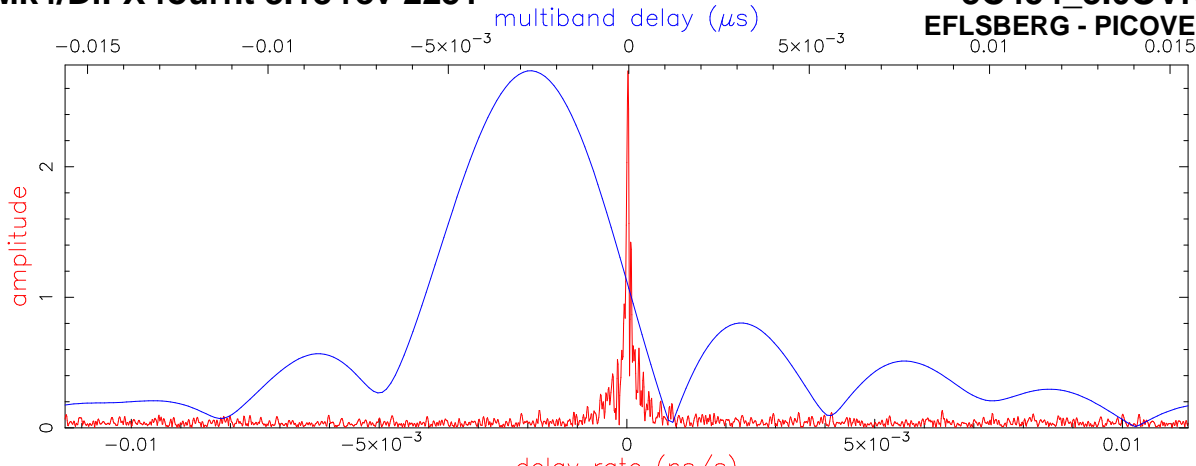


86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
-101.9	-104.1	-101.8	-105.1	-104.5	-100.5	-100.1	-111.5	Phase	-103.5
19.7	26.8	25.8	24.2	22.7	26.0	25.8	21.2	Ampl.	24.0
513.7	513.1	513.2	513.1	513.3	513.3	513.1	512.9	Sbd box	513.2
U/L 586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
B 0	0	0	0	0	0	0	0	PC freqs	
P 0	0	0	0	0	0	0	0	PC freqs	
B:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P 1000	1000	1000	1000	1000	1000	1000	1000		
B W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -3.16822554070E+03 Apriori delay (usec) -3.16822705808E+03 Resid mbdelay (usec) 1.51738E-03 +/- 2.7E-06
 Sband delay (usec) -3.16822567858E+03 Apriori clock (usec) 1.9977873E+01 Resid sbdelay (usec) 1.37950E-03 +/- 2.1E-05
 Phase delay (usec) -3.16822706142E+03 Apriori clockrate (us/s) 2.5300001E-07 Resid phdelay (usec) -3.33844E-06 +/- 4.6E-09
 Delay rate (us/s) 3.44394134100E-02 Apriori rate (us/s) 3.44393901913E-02 Resid rate (us/s) 2.32187E-08 +/- 2.7E-11
 Total phase (deg) -25.5 Apriori accel (us/s/s) 2.22898763986E-05 Resid phase (deg) -103.5 +/- 0.1

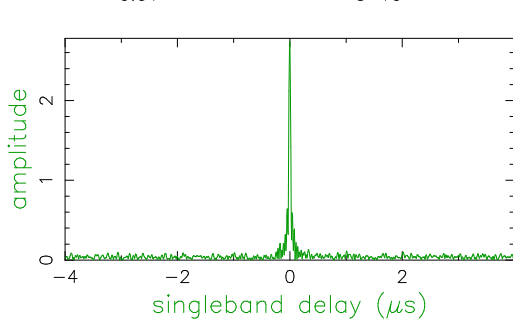
RMS Theor. Amplitude 24.074 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 43.6 0.3 Search (2048X32) 23.438 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 35.0 0.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 4.0 0.2 Inc. seg. avg. 32.072 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 10.0 0.4 Inc. frq. avg. 24.040 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 P: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -176.511 1949.312 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//BP..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//BP.W.38.0OVRI6

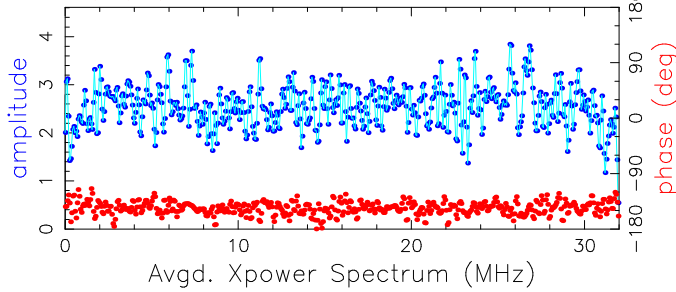


Fringe quality 6

SNR 92.6
Int time 296.645
Amp 2.780
Phase -148.2
PFD 0.0e+00
Delays (us)
SBD -0.003168
MBD -0.002800
Fringe rate (Hz)
0.002031
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

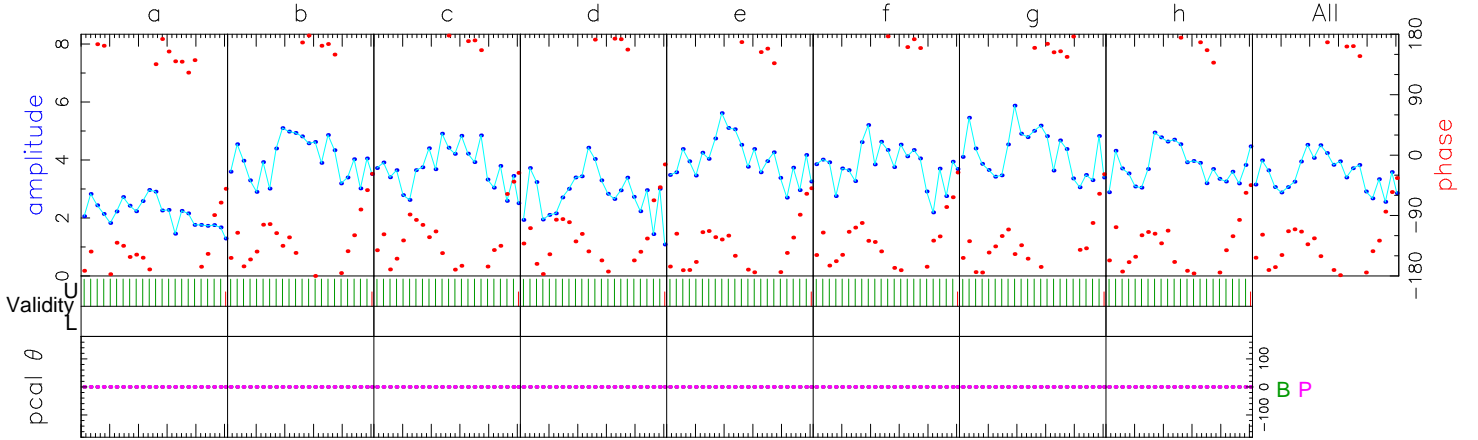


delay rate (ns/s)

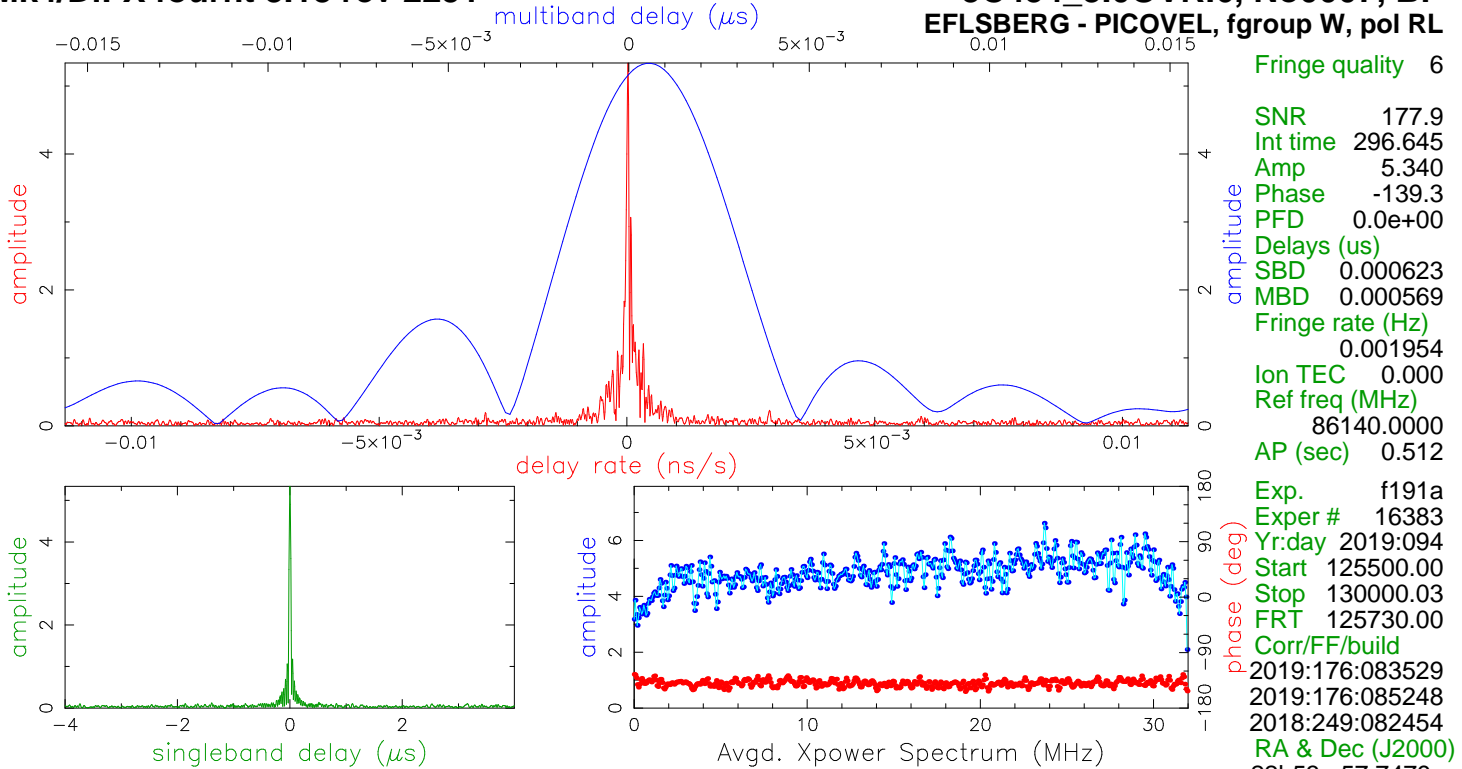


Exp. f191a
Exper # 16383
Yr:day 2019:094
Start 125500.00
Stop 130000.03
FRT 125730.00
Corr/FF/build
2019:176:083529
2019:176:085241
2018:249:082454
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

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

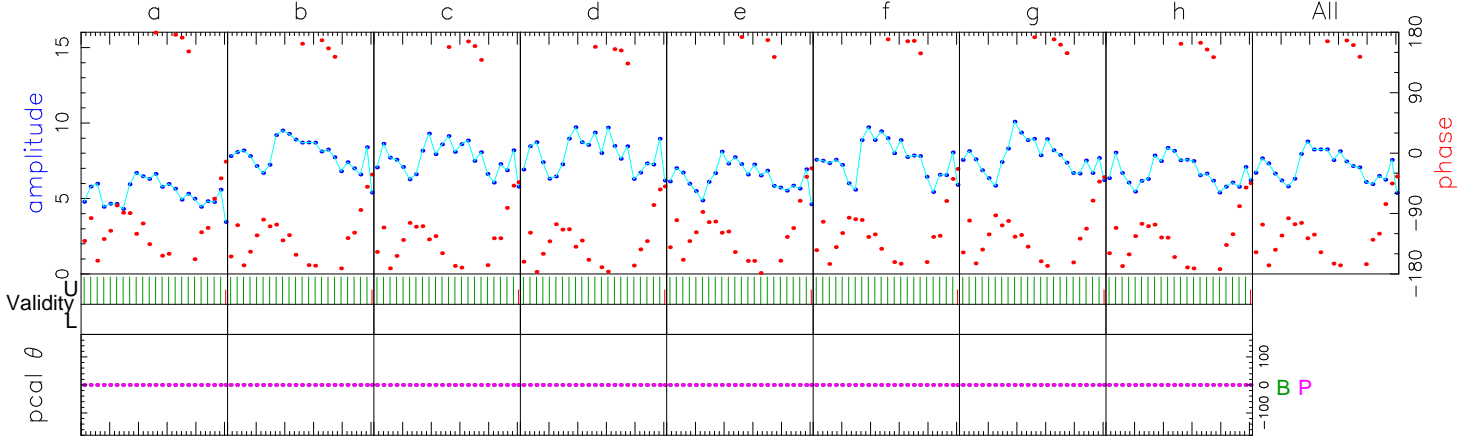


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-172.3	-146.4	-142.8	-141.4	-148.3	-142.6	-154.6	-145.3	Phase	-148.2
	1.7	3.1	2.8	2.2	3.1	3.0	3.3	2.9	Ampl.	2.8
	513.3	512.8	512.6	512.5	512.9	512.3	512.7	512.3	Sbd box	512.6
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.16822985777E+03		Apriori delay (usec)		-3.16822705808E+03		Resid mbdelay (usec)		-2.79968E-03	+/- 2.3E-05
Sband delay (usec)	-3.16823022558E+03		Apriori clock (usec)		1.9977873E+01		Resid sbdelay (usec)		-3.16750E-03	+/- 1.9E-04
Phase delay (usec)	-3.16822706286E+03		Apriori clockrate (us/s)		2.5300001E-07		Resid phdelay (usec)		-4.77791E-06	+/- 4.0E-08
Delay rate (us/s)	3.44394137713E-02		Apriori rate (us/s)		3.44393901913E-02		Resid rate (us/s)		2.35801E-08	+/- 2.3E-10
Total phase (deg)			Apriori accel (us/s/s)		2.22898763986E-05		Resid phase (deg)		-148.2	+/- 1.2
	RMS	Theor.	Amplitude	2.780 +/- 0.030		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		
ph/seg (deg)	42.0	3.0	Search (2048X32)	2.719		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-4.000 4.000
amp/seg (%)	33.8	5.2	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		-0.016 0.016
ph/frq (deg)	11.1	1.8	Inc. seg. avg.	3.532		Sample rate(MSamp/s): 64		dr window (ns/s)		-0.011 0.011
amp/frq (%)	18.4	3.1	Inc. frq. avg.	2.760		Data rate(Mb/s): 1024		ion window (TEC)		0.00 0.00
B: az 247.2 el 37.9 pa 37.5		P: az 249.4 el 49.9 pa 51.2		u,v (fr/asec) -176.511 1949.312						simultaneous interpolator



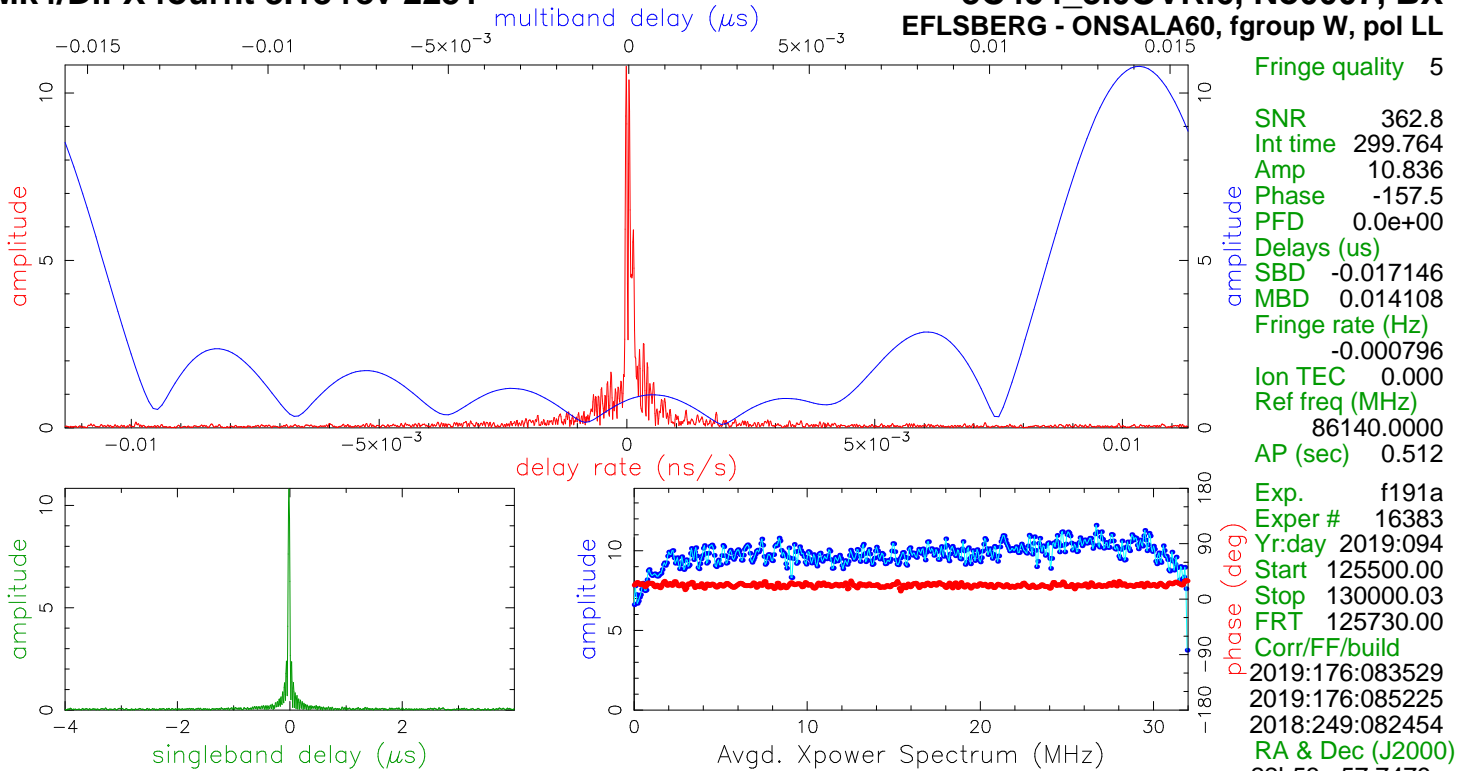
Fringe quality 6
 SNR 177.9
 Int time 296.645
 Amp 5.340
 Phase -139.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.000623
 MBD 0.000569
 Fringe rate (Hz) 0.001954
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 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

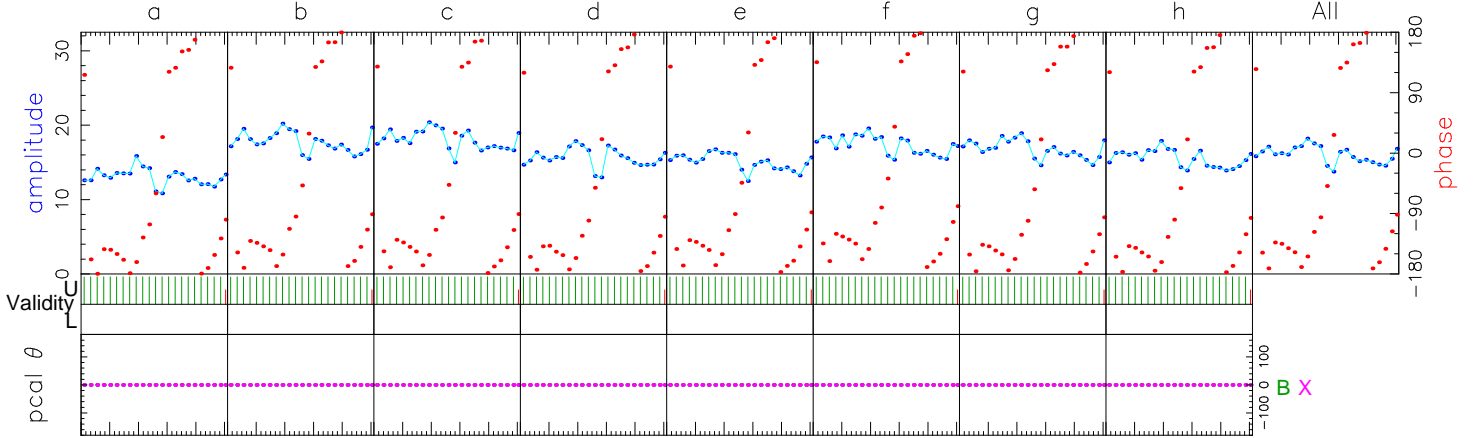


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-127.9	-141.4	-143.4	-148.6	-133.1	-137.1	-136.7	-141.9	Phase	-139.3
	4.0	6.0	5.7	5.9	4.8	5.6	5.8	5.1	Ampl.	5.4
	512.6	513.0	513.1	513.1	513.2	513.0	513.0	512.9	Sbd box	513.1
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	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)	-3.16822648877E+03		Apriori delay (usec)		-3.16822705808E+03		Resid mbdelay (usec)		5.69316E-04	+/- 1.2E-05
Sband delay (usec)	-3.16822643458E+03		Apriori clock (usec)		1.9977873E+01		Resid sbdelay (usec)		6.23500E-04	+/- 9.7E-05
Phase delay (usec)	-3.16822706258E+03		Apriori clockrate (us/s)		2.5300001E-07		Resid phdelay (usec)		-4.49314E-06	+/- 2.1E-08
Delay rate (us/s)	3.44394128800E-02		Apriori rate (us/s)		3.44393901913E-02		Resid rate (us/s)		2.26887E-08	+/- 1.2E-10
Total phase (deg)			Apriori accel (us/s/s)		2.22898763986E-05		Resid phase (deg)		-139.3	+/- 0.6

RMS Theor. Amplitude 5.340 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 43.9 1.5 Search (2048X32) 5.239 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 37.5 2.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 7.0 0.9 Inc. seg. avg. 7.132 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 (%) 12.2 1.6 Inc. frq. avg. 5.364 simultaneous interpolator
 B: az 247.2 el 37.9 pa 37.5 P: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -176.511 1949.312
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//BP..0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007//BP.W.76.0OVR16

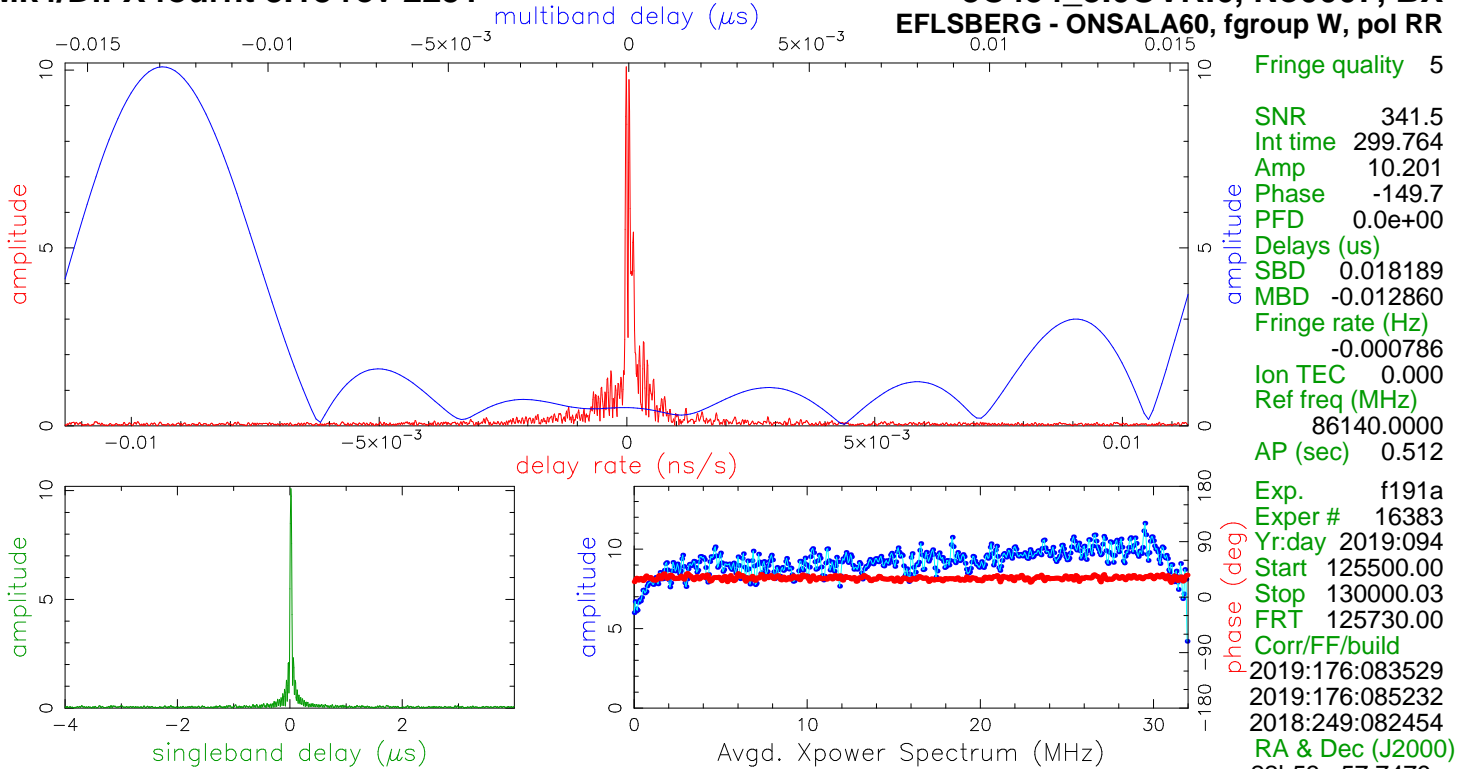


Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

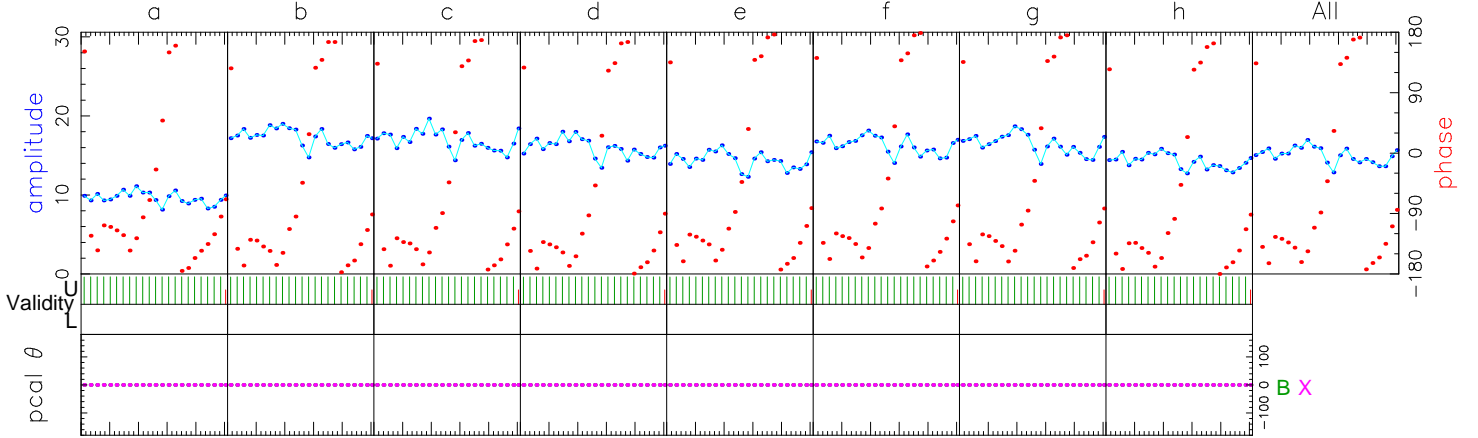


86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
-167.1	-155.2	-155.1	-162.8	-153.5	-145.2	-161.1	-162.7	Phase	-157.5
8.9	11.9	12.2	10.5	10.2	11.5	11.3	10.4	Ampl.	10.9
511.4	510.7	510.8	510.6	511.0	510.7	510.6	510.9	Sbd box	510.8
U/L 586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
B 0	0	0	0	0	0	0	0	PC freqs	
X 0	0	0	0	0	0	0	0	PC freqs	
B:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X 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	
X 1000	1000	1000	1000	1000	1000	1000	1000		
B 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)	1.61694410752E+03		Apriori delay (usec)	1.61696124981E+03		Resid mbdelay (usec)	1.41077E-02	+/-	6.0E-06
Sband delay (usec)	1.61694410331E+03		Apriori clock (usec)	-5.1678429E+00		Resid sbdelay (usec)	-1.71465E-02	+/-	4.7E-05
Phase delay (usec)	1.61696124473E+03		Apriori clockrate (us/s)	-8.2399999E-07		Resid phdelay (usec)	-5.07824E-06	+/-	1.0E-08
Delay rate (us/s)	-6.77727996126E-02		Apriori rate (us/s)	-6.77727903766E-02		Resid rate (us/s)	-9.23605E-09	+/-	5.9E-11
Total phase (deg)		-136.5	Apriori accel (us/s/s)	-1.08557532878E-05		Resid phase (deg)	-157.5	+/-	0.3

ph/seg (deg)	57.4	0.8	Amplitude	10.836 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	49.1	1.3	Search (2048X32)	10.511	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.016	0.016
ph/frq (deg)	7.5	0.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	9.2	0.8	Inc. seg. avg.	16.036	Sample rate(MSamp/s):	64			ion window (TEC)	0.00	0.00
			Inc. frq. avg.	10.863	Data rate(Mb/s):	1024	nlags:	512	t_cohere	infinite	



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
	-132.5	-153.6	-152.2	-156.7	-148.3	-143.8	-146.5	-157.8	Phase	-149.7
	6.5	11.6	11.3	10.8	9.8	11.0	11.0	9.5	Ampl.	10.2
	514.5	515.3	515.3	515.2	515.4	515.5	515.2	515.3	Sbd box	515.3
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	
X	0	0	0	0	0	0	0	0	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		1.61697963940E+03		Apriori delay (usec)		1.61696124981E+03		Resid mbdelay (usec)	-1.28604E-02	+/- 6.4E-06
Sband delay (usec)		1.61697943881E+03		Apriori clock (usec)		-5.1678429E+00		Resid sbdelay (usec)	1.81890E-02	+/- 5.0E-05
Phase delay (usec)		1.61696124498E+03		Apriori clockrate (us/s)		-8.2399999E-07		Resid phdelay (usec)	-4.82858E-06	+/- 1.1E-08
Delay rate (us/s)		-6.77727995049E-02		Apriori rate (us/s)		-6.77727903766E-02		Resid rate (us/s)	-9.12835E-09	+/- 6.2E-11
Total phase (deg)			-128.8	Apriori accel (us/s/s)		-1.08557532878E-05		Resid phase (deg)	-149.7	+/- 0.3

ph/seg (deg) 57.7 0.8 Theor. Amplitude 10.201 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

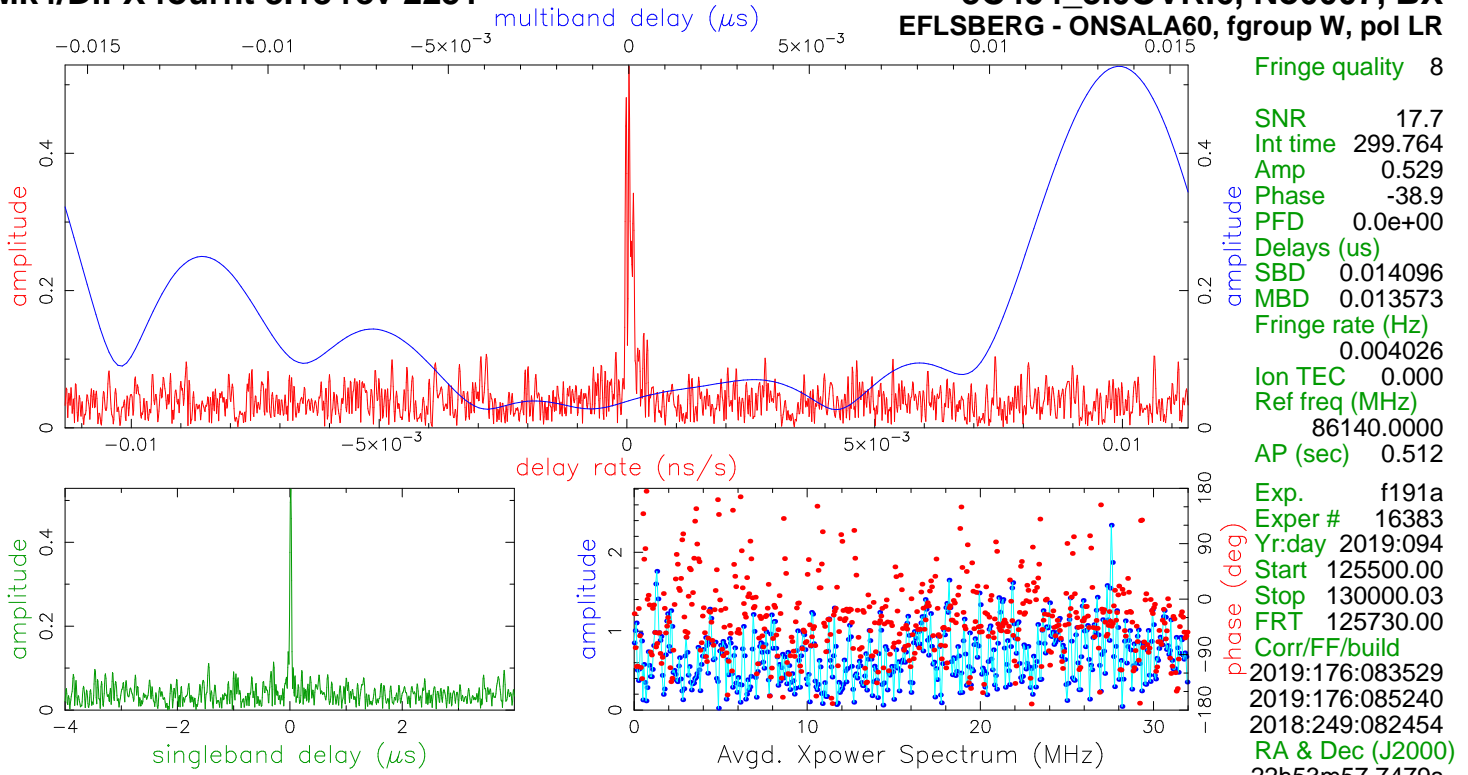
amp/seg (%) 48.2 1.4 Search (2048X32) 9.997 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000

ph/frq (deg) 9.0 0.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 15.2 0.8 Inc. seg. avg. 15.019 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011

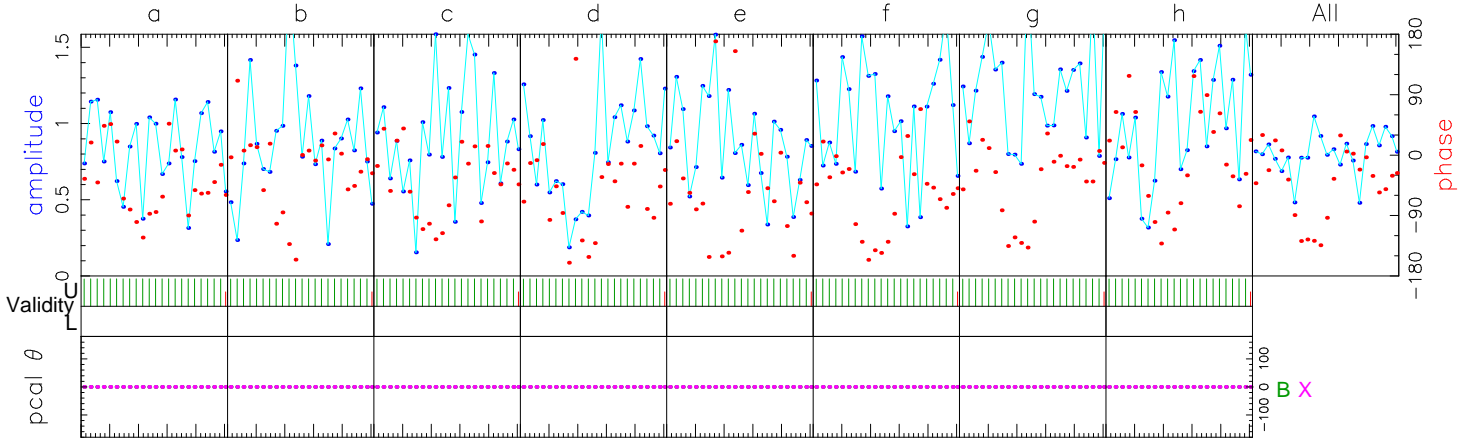
B: az 247.2 el 37.9 pa 37.5 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 390.194 -851.396 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite ion window (TEC) 0.00 0.00

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007/BX..OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007/BX.W.29.0OVRI6 simultaneous interpolator



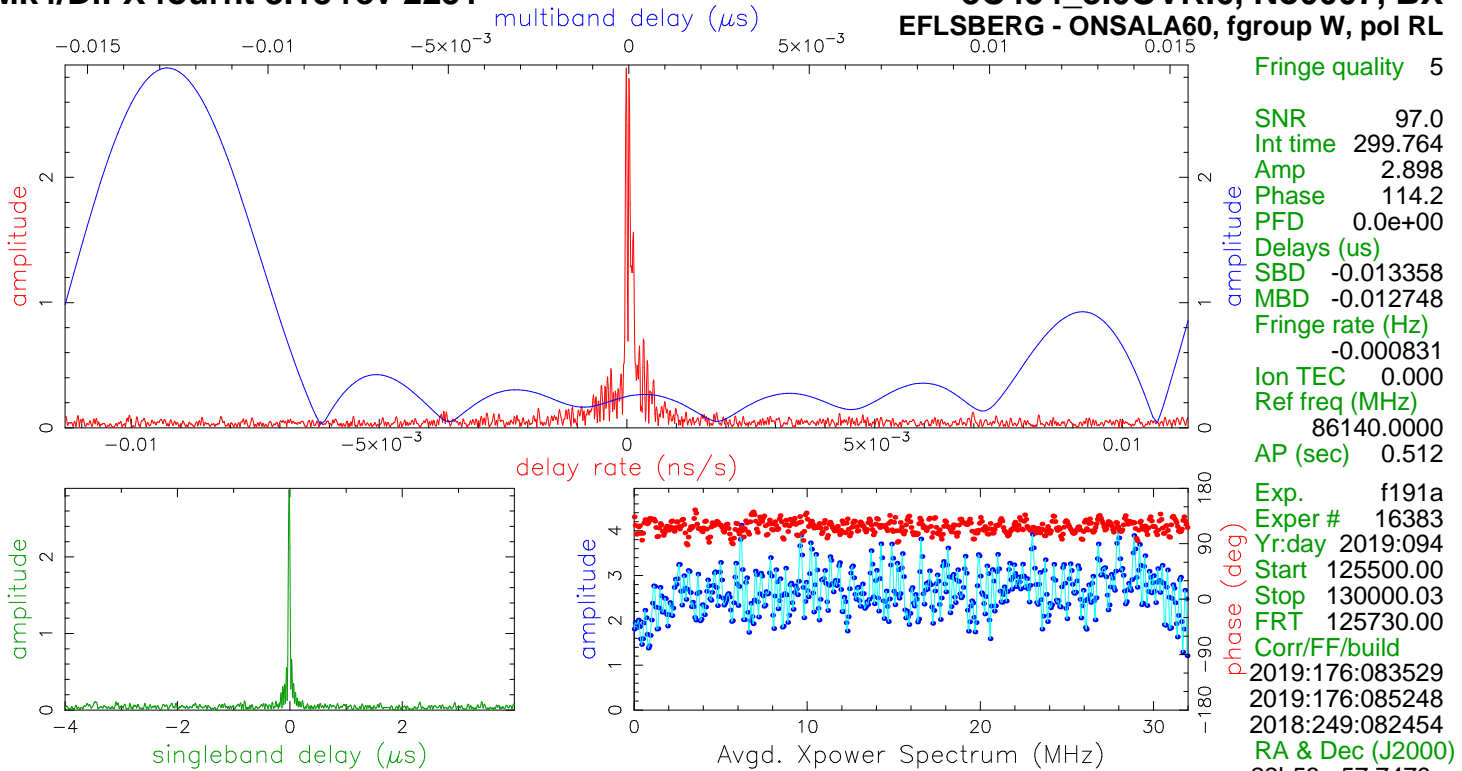
Fringe quality 8
 SNR 17.7
 Int time 299.764
 Amp 0.529
 Phase -38.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.014096
 MBD 0.013573
 Fringe rate (Hz)
 0.004026
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512
 Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085240
 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
	-35.0	-25.0	-32.8	-43.5	-79.2	-63.4	-30.1	2.7	Phase	-38.9
	0.6	0.5	0.6	0.6	0.4	0.7	0.8	0.4	Ampl.	0.6
	514.5	514.7	514.4	514.9	515.5	515.1	515.0	514.8	Sbd box	514.8
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	
X	0	0	0	0	0	0	0	0	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	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)	1.61697482312E+03		Apriori delay (usec)		1.61696124981E+03		Resid mbdelay (usec)		1.35733E-02	+/- 1.2E-04
Sband delay (usec)	1.61697534581E+03		Apriori clock (usec)		-5.1678429E+00		Resid sbdelay (usec)		1.40960E-02	+/- 9.7E-04
Phase delay (usec)	1.61696124855E+03		Apriori clockrate (us/s)		-8.2399999E-07		Resid phdelay (usec)		-1.25417E-06	+/- 2.1E-07
Delay rate (us/s)	-6.77727436437E-02		Apriori rate (us/s)		-6.77727903766E-02		Resid rate (us/s)		4.67329E-08	+/- 1.2E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.08557532878E-05		Resid phase (deg)		-38.9	+/- 6.5

RMS Theor. Amplitude 0.529 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 51.3 15.5 Search (2048X32) 0.521 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 58.5 27.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 26.8 9.2 Inc. seg. avg. 0.780 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 (%) 26.3 16.0 Inc. frq. avg. 0.554 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 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 390.194 -851.396 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//BX...0VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//BX.W.51.00VRI6



Fringe quality 5

SNR 97.0

Int time 299.764

Amp 2.898

Phase 114.2

PFD 0.0e+00

Delays (us)

SBD -0.013358

MBD -0.012748

Fringe rate (Hz) -0.000831

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

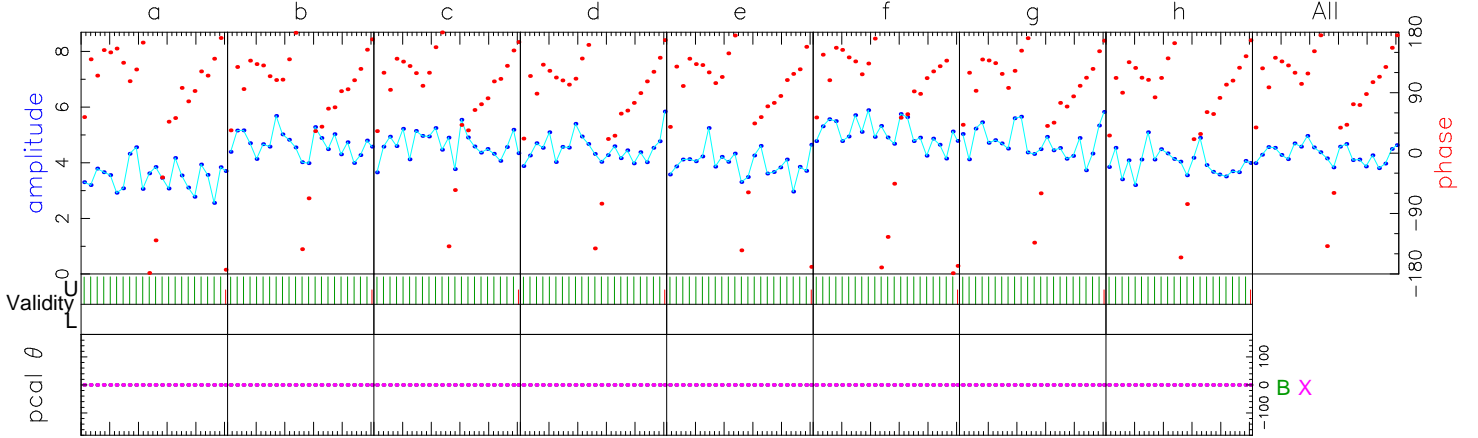
2019:176:083529

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
	125.4	109.7	112.6	105.0	114.4	129.8	112.9	104.2	Phase	114.2
	2.3	3.1	3.1	2.9	2.7	3.3	3.2	2.6	Ampl.	2.9
	511.8	511.2	511.4	511.0	511.5	511.3	511.0	511.3	Sbd box	511.3
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	
X	0	0	0	0	0	0	0	0	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.61694850159E+03		Apriori delay (usec)		1.61696124981E+03		Resid mbdelay (usec)		-1.27482E-02	+/- 2.2E-05
Sband delay (usec)	1.61694789131E+03		Apriori clock (usec)		-5.1678429E+00		Resid sbdelay (usec)		-1.33585E-02	+/- 1.8E-04
Phase delay (usec)	1.61696125349E+03		Apriori clockrate (us/s)		-8.2399999E-07		Resid phdelay (usec)		3.68421E-06	+/- 3.8E-08
Delay rate (us/s)	-6.77728000229E-02		Apriori rate (us/s)		-6.77727903766E-02		Resid rate (us/s)		-9.64630E-09	+/- 2.2E-10
Total phase (deg)	135.2		Apriori accel (us/s/s)		-1.08557532878E-05		Resid phase (deg)		114.2	+/- 1.2

RMS Theor. Amplitude 2.898 +/- 0.030

ph/seg (deg) 57.3 2.8 Search (2048X32) 2.863

amp/seg (%) 50.1 4.9 Interp. 0.000

ph/frq (deg) 9.8 1.7 Inc. seg. avg. 4.311

amp/frq (%) 11.1 2.9 Inc. frq. avg. 2.904

Group delay (usec)(sbd) 1.61694850159E+03

Sband delay (usec) 1.61694789131E+03

Phase delay (usec) 1.61696125349E+03

Delay rate (us/s) -6.77728000229E-02

Total phase (deg) 135.2

Apriori delay (usec) 1.61696124981E+03

Apriori clock (usec) -5.1678429E+00

Apriori clockrate (us/s) -8.2399999E-07

Apriori rate (us/s) -6.77727903766E-02

Apriori accel (us/s/s) -1.08557532878E-05

Resid mbdelay (usec) -1.27482E-02

Resid sbdelay (usec) -1.33585E-02

Resid phdelay (usec) 3.68421E-06

Resid rate (us/s) -9.64630E-09

Resid phase (deg) 114.2

PCal mode: MANUAL, MANUAL

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

Bits/sample: 2x2

Sample rate(MSamp/s): 64

Data rate(Mb/s): 1024

PC period (AP's) 5, 5

sb window (us) -4.000 4.000

SampCntNorm: enabled

mb window (us) -0.016 0.016

dr window (ns/s) -0.011 0.011

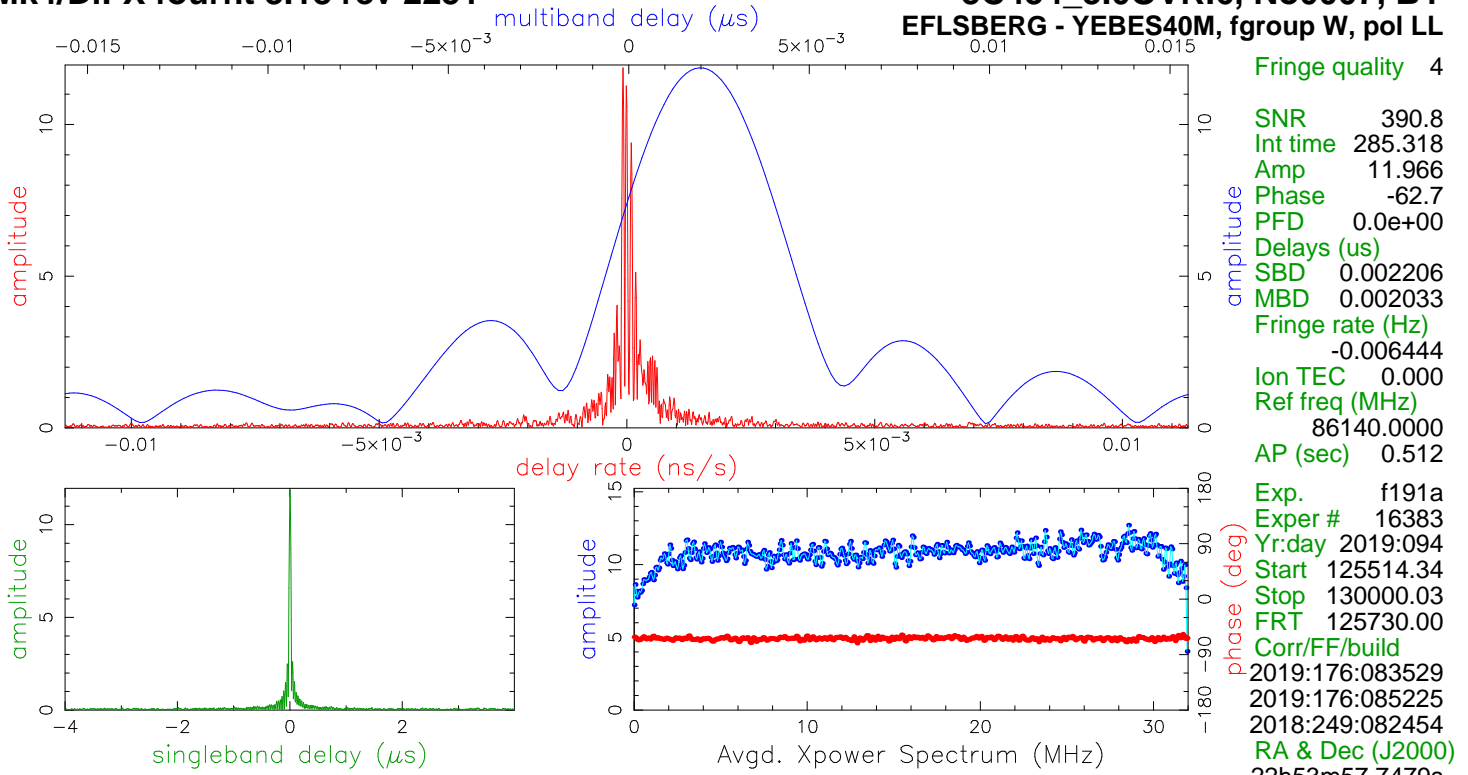
ion window (TEC) 0.00 0.00

nlags: 512 t_cohere infinite

simultaneous interpolator

B: az 247.2 el 37.9 pa 37.5 X: az 247.6 el 32.5 pa 31.4 u,v (fr/asec) 390.194 -851.396

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//BX..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//BX.W.71.0OVRI6

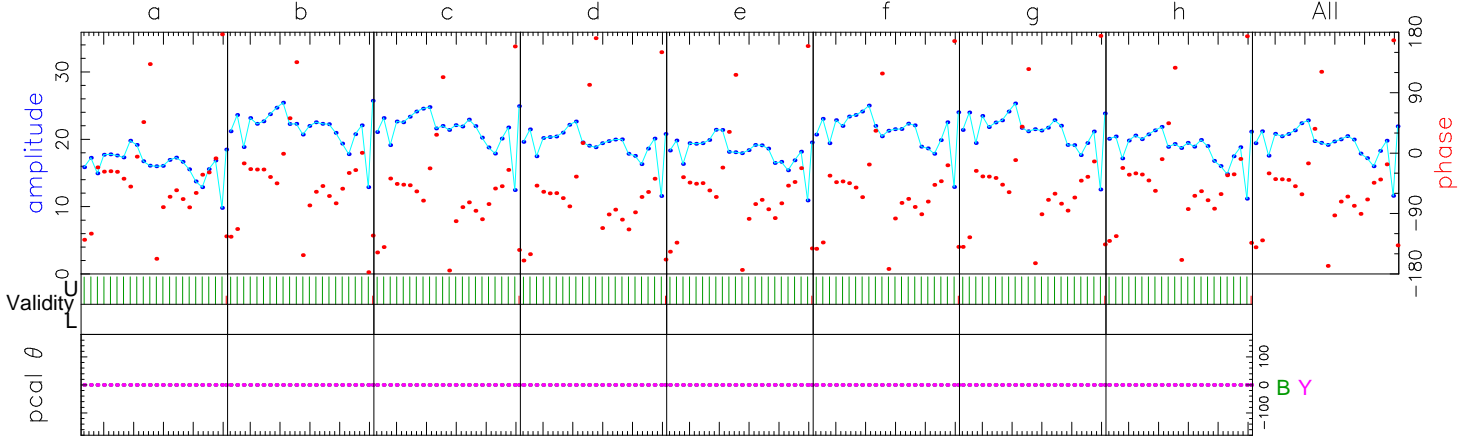


Fringe quality 4

SNR 390.8
Int time 285.318
Amp 11.966
Phase -62.7
PFD 0.0e+00
Delays (us)
SBD 0.002206
MBD 0.002033
Fringe rate (Hz)
-0.006444
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
2019:176:085225
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

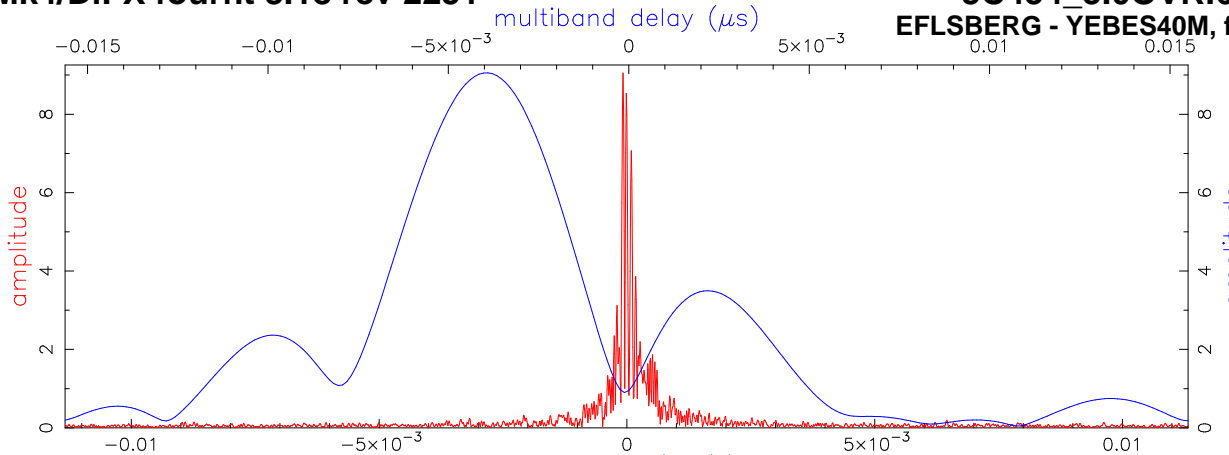


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-51.9	-47.7	-71.1	-82.4	-67.9	-65.4	-59.7	-55.1	Phase	-62.7
	10.0	13.2	13.1	11.8	11.1	13.0	12.9	11.4	Ampl.	12.1
	513.7	513.3	513.2	513.2	513.3	513.2	513.3	513.4	Sbd box	513.3
U/L	558/0	558/0	558/0	558/0	558/0	558/0	558/0	558/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	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)	-2.80467752465E+03		Apriori delay (usec)		-2.80467955760E+03		Resid mbdelay (usec)		2.03294E-03	+/- 5.6E-06
Sband delay (usec)	-2.80467735110E+03		Apriori clock (usec)		1.2879183E+01		Resid sbdelay (usec)		2.20650E-03	+/- 4.4E-05
Phase delay (usec)	-2.80467955962E+03		Apriori clockrate (us/s)		-2.3700001E-07		Resid phdelay (usec)		-2.02264E-06	+/- 9.5E-09
Delay rate (us/s)	2.87582785302E-03		Apriori rate (us/s)		2.87590266608E-03		Resid rate (us/s)		-7.48131E-08	+/- 5.7E-11
Total phase (deg)			Apriori accel (us/s/s)		1.88398071791E-05		Resid phase (deg)		-62.7	+/- 0.3

ph/seg (deg) 63.9 0.7 Theor. Amplitude 11.966 +/- 0.031 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 65.1 1.2 Search (2048X32) 11.787 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 12.3 0.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 9.2 0.7 Inc. seg. avg. 19.396 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 12.075 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 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) 7.171 1470.823 simultaneous interpolator

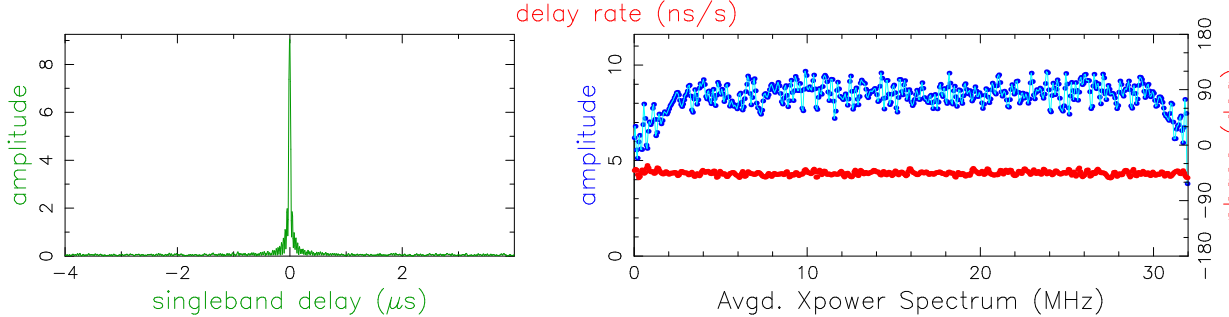
Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//BY..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//BY.W.10.0OVRI6



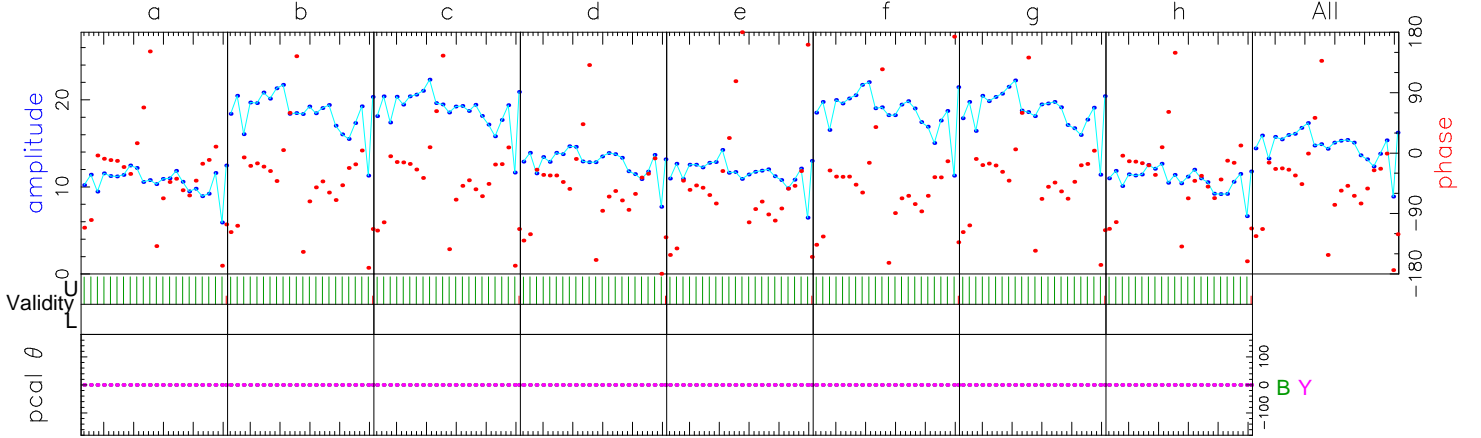
Fringe quality 3

SNR 302.3
 Int time 285.318
 Amp 9.257
 Phase -46.8
 PFD 0.0e+00
 Delays (us)
 SBD -0.004087
 MBD -0.003857
 Fringe rate (Hz)
 -0.006404
 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
 2019:176:085232
 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

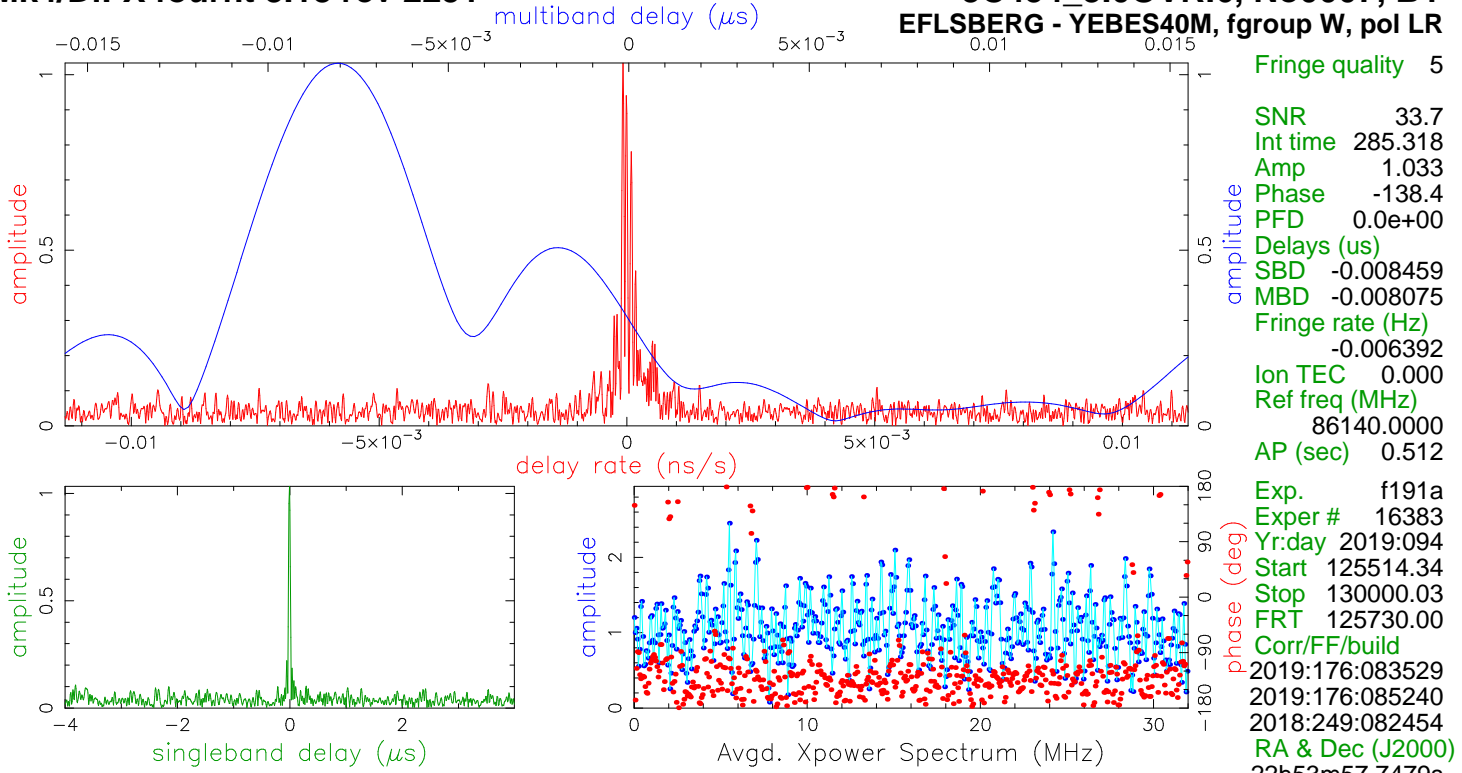


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-34.6	-41.8	-37.9	-56.0	-73.2	-59.1	-40.2	-34.9	Phase	-46.8
	6.5	11.3	11.5	8.0	7.2	11.4	11.6	6.6	Ampl.	9.3
	512.4	512.9	512.6	511.9	512.7	512.6	512.8	512.6	Sbd box	512.5
U/L	558/0	558/0	558/0	558/0	558/0	558/0	558/0	558/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.80468341422E+03		Apriori delay (usec)		-2.80467955760E+03		Resid mbdelay (usec)		-3.85662E-03	+/- 7.2E-06
Sband delay (usec)	-2.80468364410E+03		Apriori clock (usec)		1.2879183E+01		Resid sbdelay (usec)		-4.08650E-03	+/- 5.7E-05
Phase delay (usec)	-2.80467955911E+03		Apriori clockrate (us/s)		-2.3700001E-07		Resid phdelay (usec)		-1.51067E-06	+/- 1.2E-08
Delay rate (us/s)	2.87582831712E-03		Apriori rate (us/s)		2.87590266608E-03		Resid rate (us/s)		-7.43490E-08	+/- 7.4E-11
Total phase (deg)			Apriori accel (us/s/s)		1.88398071791E-05		Resid phase (deg)		-46.8	+/- 0.4

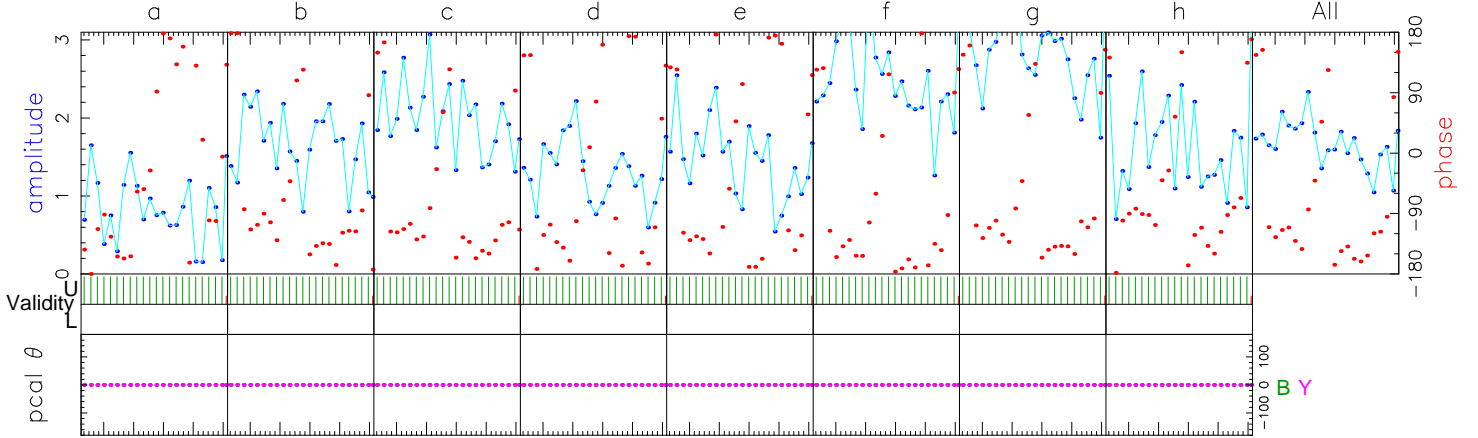
RMS Theor. Amplitude 9.257 +/- 0.031 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 63.5 0.9 Search (2048X32) 8.969 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 amp/seg (%) 61.7 1.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 15.1 0.5 Inc. seg. avg. 14.705 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 24.1 0.9 Inc. frq. avg. 9.258 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 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) 7.171 1470.823 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//BY..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//BY.W.28.0OVRI6

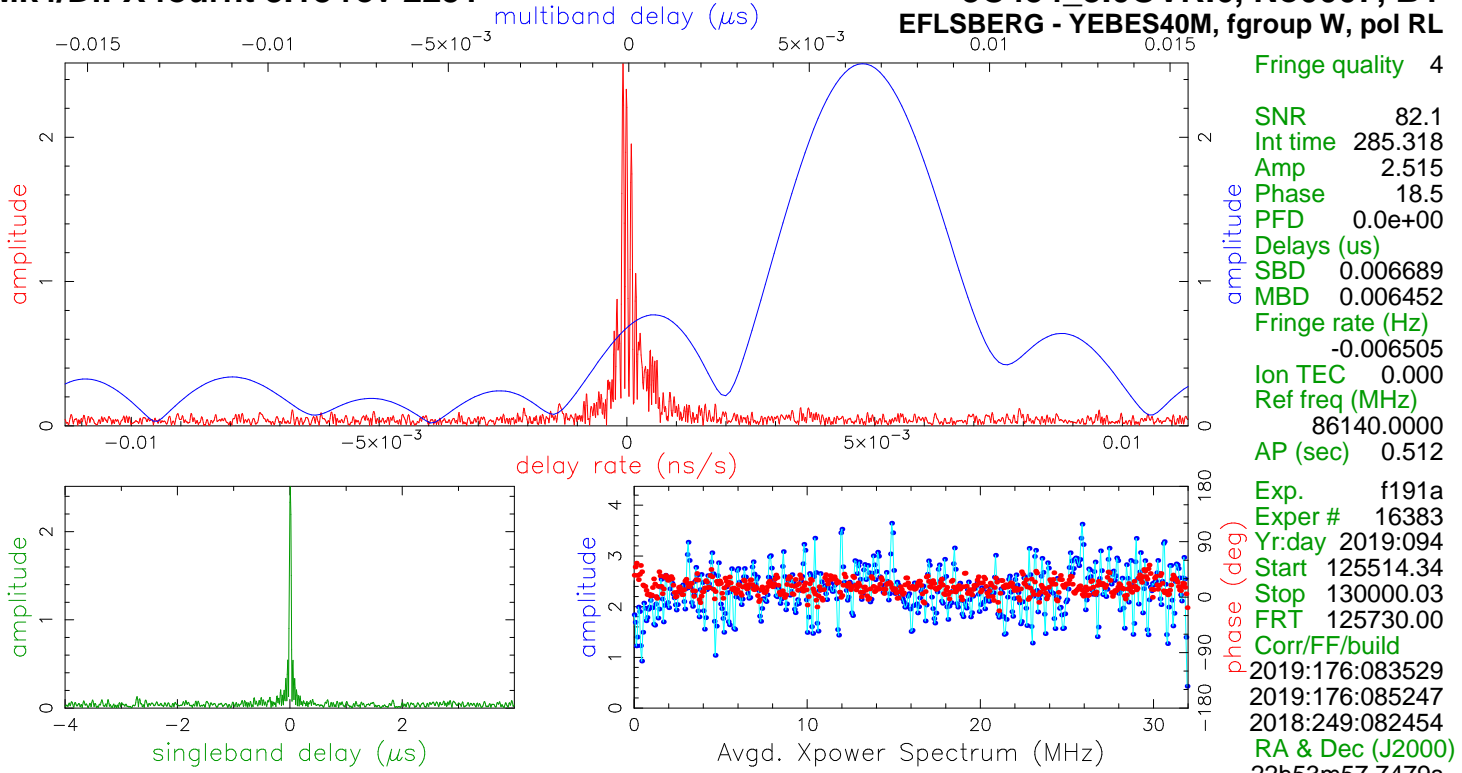


Amp. and Phase vs. time for each freq., 23 segs, 25 APs / seg (12.80 sec / seg.), time ticks 10 sec

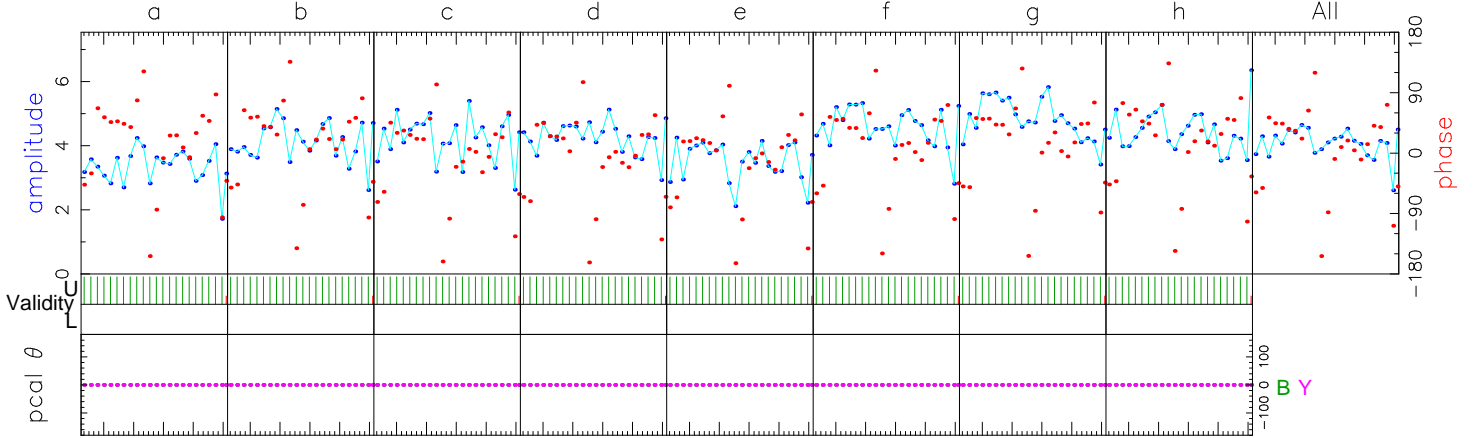


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-144.5	-121.3	-133.1	-149.0	-163.4	-156.5	-133.4	-111.9	Phase	-138.4
	0.4	1.2	1.3	0.7	0.9	1.5	1.8	0.9	Ampl.	1.1
	512.2	512.6	511.8	511.0	512.1	511.8	512.4	512.1	Sbd box	511.9
U/L	558/0	558/0	558/0	558/0	558/0	558/0	558/0	558/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.80468763247E+03		Apriori delay (usec)	-2.80467955760E+03		Resid mbdelay (usec)	-8.07487E-03		+/-	6.4E-05
Sband delay (usec)	-2.80468801660E+03		Apriori clock (usec)	1.2879183E+01		Resid sbdelay (usec)	-8.45900E-03		+/-	5.1E-04
Phase delay (usec)	-2.80467956206E+03		Apriori clockrate (us/s)	-2.3700001E-07		Resid phdelay (usec)	-4.46276E-06		+/-	1.1E-07
Delay rate (us/s)	2.87582846450E-03		Apriori rate (us/s)	2.87590266608E-03		Resid rate (us/s)	-7.42016E-08		+/-	6.6E-10
Total phase (deg)			Apriori accel (us/s/s)	1.88398071791E-05		Resid phase (deg)	-138.4		+/-	3.4

	RMS	Theor.	Amplitude	1.033 +/- 0.031	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-4.000	4.000
ph/seg (deg)	63.8	8.1	Search (2048X32)	1.018	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				
amp/seg (%)	66.7	14.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	18.9	4.8	Inc. seg. avg.	1.640	Sample rate(MSamp/s): 64		dr window (ns/s)	-0.011	0.011
amp/frq (%)	39.4	8.4	Inc. frq. avg.	1.069	Data rate(Mb/s): 1024	nlags: 512 t_cohere infinite	ion window (TEC)	0.00	0.00

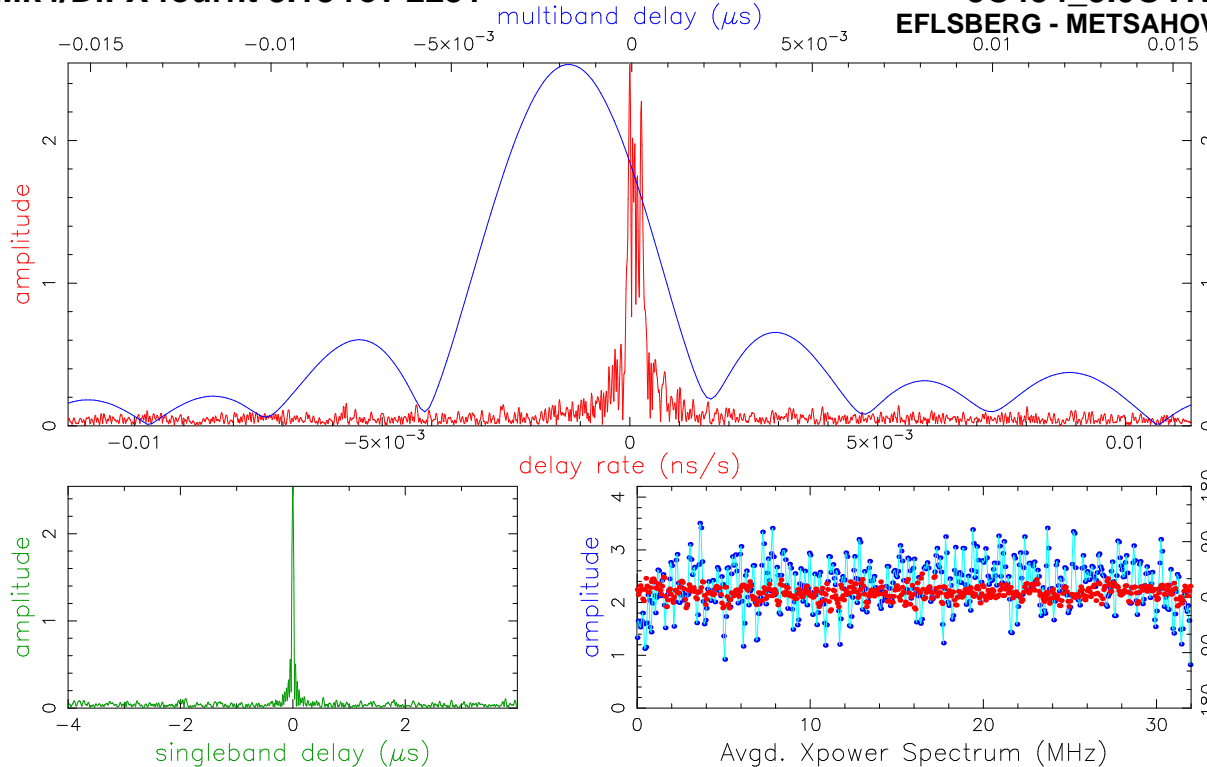


Amp. and Phase vs. time for each freq., 23 segs, 25 APs / seg (12.80 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	31.9	29.1	7.5	4.2	1.3	20.2	24.0	29.7	Phase	18.5
	2.1	2.5	2.7	2.5	2.3	2.8	3.0	2.6	Ampl.	2.6
	514.3	513.7	514.0	513.6	513.9	513.8	513.7	513.8	Sbd box	513.9
U/L	558/0	558/0	558/0	558/0	558/0	558/0	558/0	558/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.80467310540E+03		Apriori delay (usec)	-2.80467955760E+03		Resid mbdelay (usec)	6.45219E-03	+/-	2.6E-05	
Sband delay (usec)	-2.80467286860E+03		Apriori clock (usec)	1.2879183E+01		Resid sbdelay (usec)	6.68900E-03	+/-	2.1E-04	
Phase delay (usec)	-2.80467955700E+03		Apriori clockrate (us/s)	-2.3700001E-07		Resid phdelay (usec)	5.96818E-07	+/-	4.5E-08	
Delay rate (us/s)	2.87582714942E-03		Apriori rate (us/s)	2.87590266608E-03		Resid rate (us/s)	-7.55167E-08	+/-	2.7E-10	
Total phase (deg)		-14.4	Apriori accel (us/s/s)	1.88398071791E-05		Resid phase (deg)	18.5	+/-	1.4	

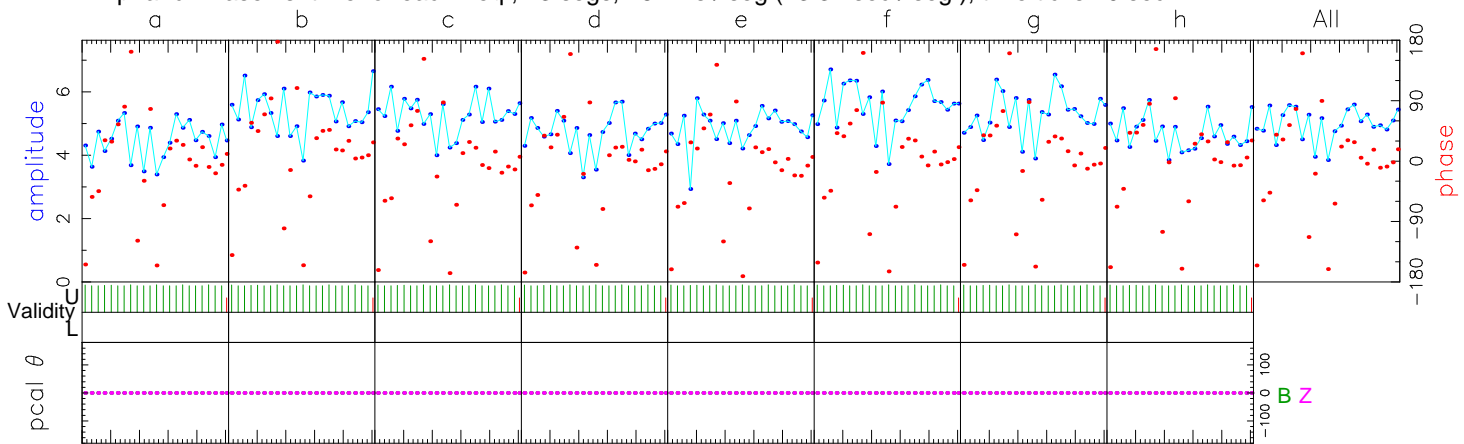
	RMS	Theor.	Amplitude	2.515 +/- 0.031	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	63.5	3.3	Search (2048X32)	2.468	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
amp/seg (%)	64.2	5.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016 0.016
ph/frq (deg)	13.4	2.0	Inc. seg. avg.	4.061	Sample rate(MSamp/s): 64	nlags: 512 t_cohere infinite	dr window (ns/s)	-0.011 0.011
amp/frq (%)	11.2	3.4	Inc. frq. avg.	2.557	Data rate(Mb/s): 1024		ion window (TEC)	0.00 0.00



Fringe quality 5

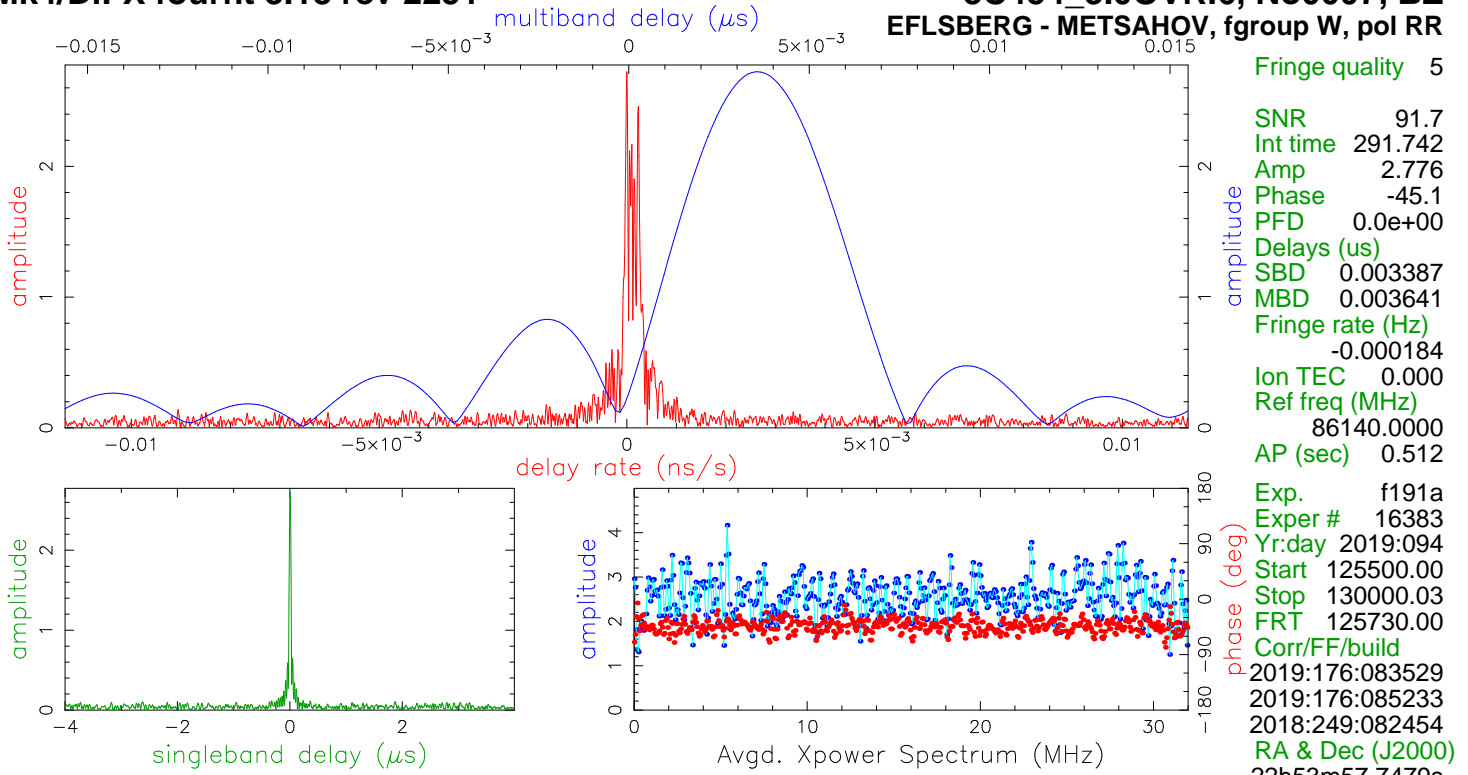
SNR 84.0
 Int time 291.742
 Amp 2.544
 Phase 8.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.001586
 MBD -0.001784
 Fringe rate (Hz)
 -0.000221
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512
 Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 Corr/FF/build
 2019:176:083529
 2019:176:085225
 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



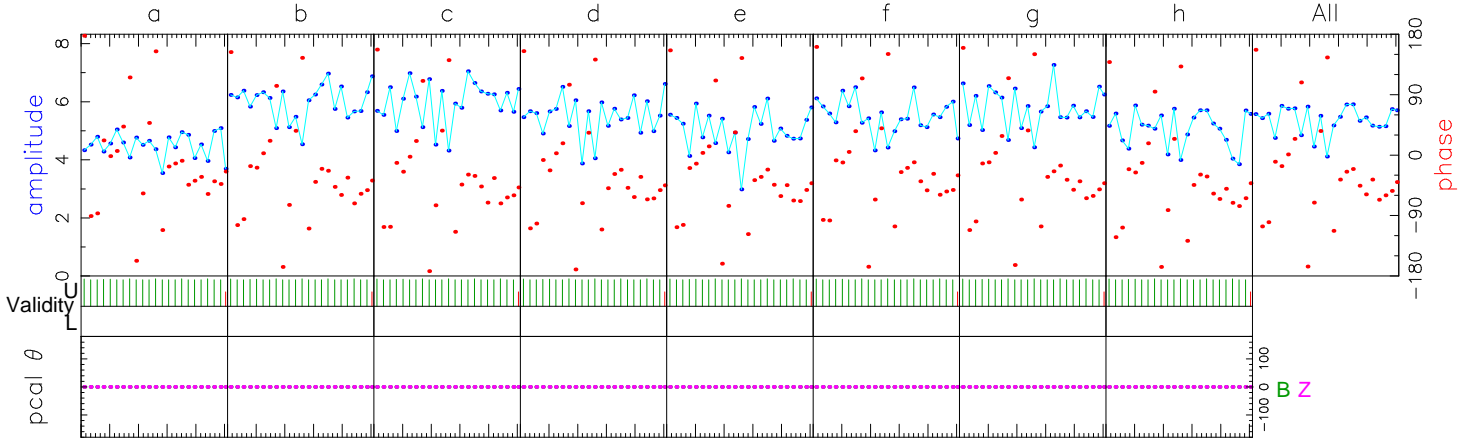
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	6.5	19.5	2.8	2.7	-2.5	10.5	11.8	15.0	Phase	8.4
	2.3	2.7	2.6	2.5	2.4	2.9	2.8	2.2	Ampl.	2.5
	513.4	512.5	512.8	512.6	513.0	512.9	512.8	512.8	Sbd box	512.8
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
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	Manl 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..0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007//BZ.W.15.0OVR16



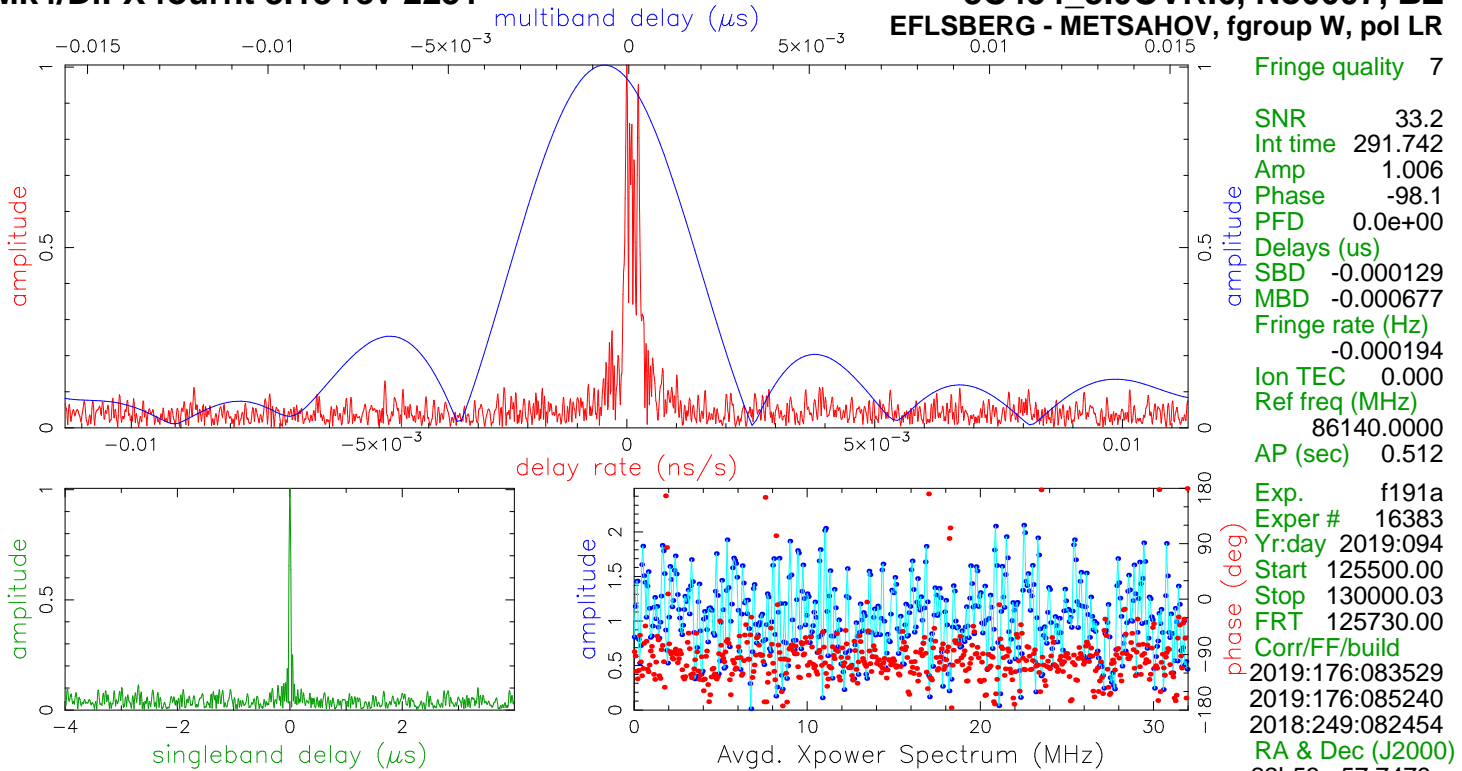
Fringe quality 5
 SNR 91.7
 Int time 291.742
 Amp 2.776
 Phase -45.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.003387
 MBD 0.003641
 Fringe rate (Hz)
 -0.000184
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 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



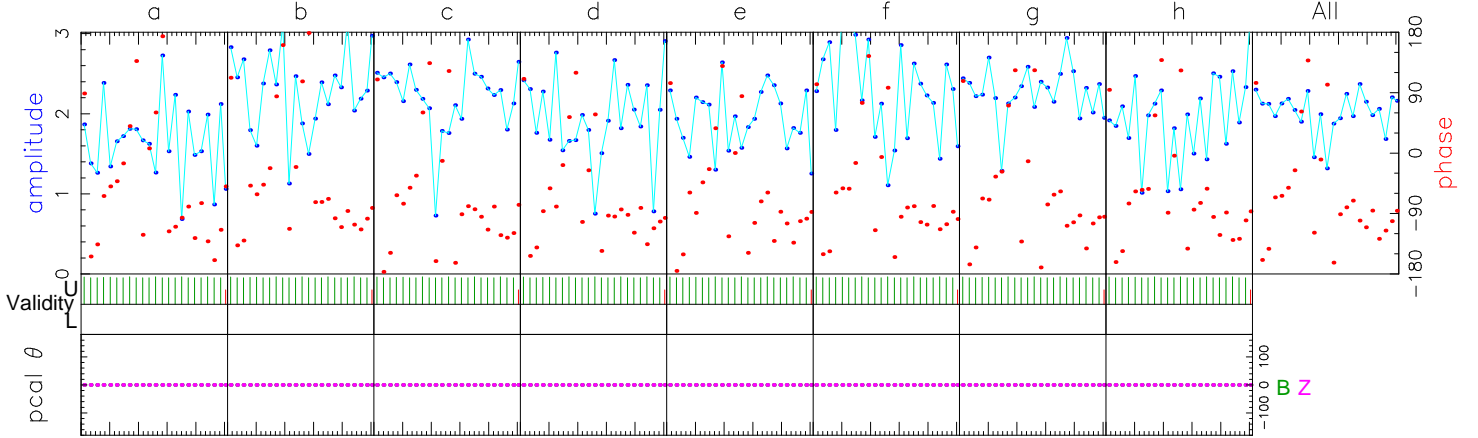
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-31.3	-46.0	-50.7	-47.8	-49.2	-36.7	-43.5	-52.6	Phase	-45.1
	2.2	3.1	3.1	2.8	2.6	2.7	2.9	2.5	Ampl.	2.7
	512.7	513.6	513.6	513.4	513.5	513.8	513.1	513.4	Sbd box	513.4
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	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 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite 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..0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007//BZ.W.33.0OVR16



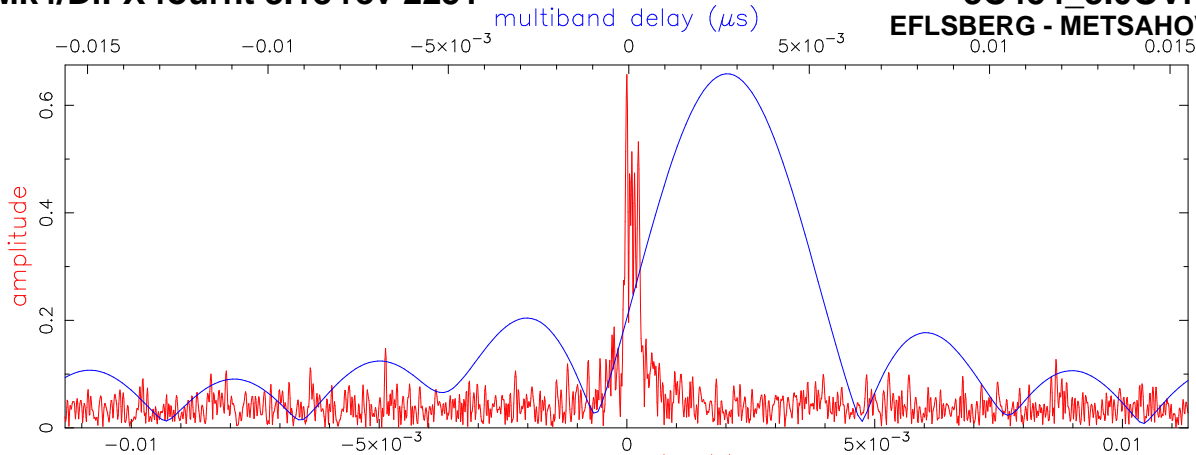
Fringe quality 7
 SNR 33.2
 Int time 291.742
 Amp 1.006
 Phase -98.1
 PFD 0.0e+00
 Delays (us)
 SBD -0.000129
 MBD -0.000677
 Fringe rate (Hz)
 -0.000194
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. f191a
 Exper # 16383
 Yr:day 2019:094
 Start 125500.00
 Stop 130000.03
 FRT 125730.00
 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

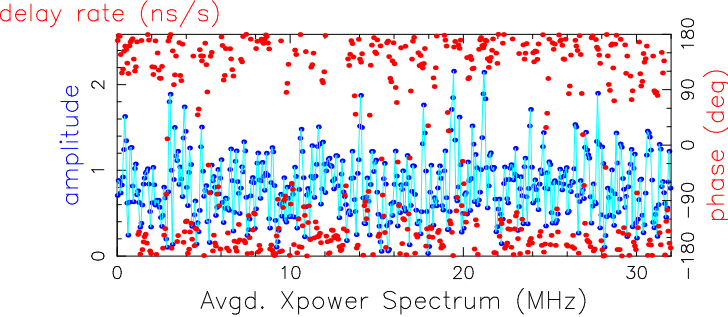
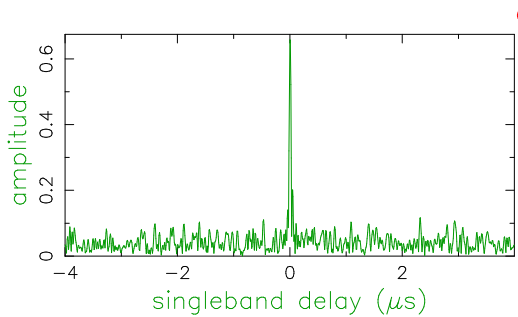


86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
-100.5	-93.8	-102.9	-99.2	-97.9	-91.8	-100.6	-99.5	Phase	-98.1
0.7	1.1	1.1	1.1	0.9	1.2	1.1	1.0	Ampl.	1.0
512.6	513.3	512.8	513.1	513.4	513.0	512.9	512.6	Sbd box	513.0
U/L 586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	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

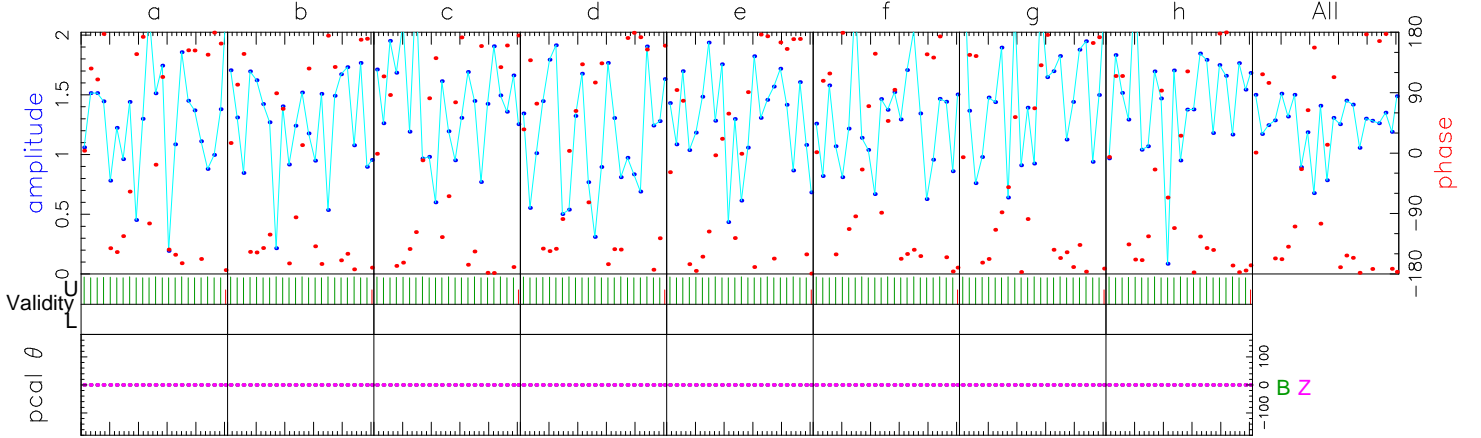


Fringe quality 9
 SNR 22.3
 Int time 291.742
 Amp 0.675
 Phase -173.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.003872
 MBD 0.002574
 Fringe rate (Hz)
 -0.000413
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



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	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									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) 75.8 12.3
 amp/seg (%) 91.0 21.5
 ph/frq (deg) 6.9 7.3
 amp/frq (%) 13.1 12.7

RMS Theor. Amplitude 0.675 +/- 0.030
 Search (2048X32) 0.644
 Interp. 0.000
 Inc. seg. avg. 1.221
 Inc. frq. avg. 0.655

Group delay (usec)(sbd) 3.92082161980E+03
 Sband delay (usec) 3.92082291689E+03
 Phase delay (usec) 3.92081903979E+03
 Delay rate (us/s) -4.21077197220E-02
 Total phase (deg) 31.3

Apriori delay (usec) 3.92081904539E+03
 Apriori clock (usec) 1.9753950E+01
 Apriori clockrate (us/s) -5.9400000E-07
 Apriori rate (us/s) -4.21077149300E-02
 Apriori accel (us/s/s) -2.37817958873E-05

Resid mbdelay (usec) 2.57440E-03 +/- 9.7E-05
 Resid sbdelay (usec) 3.87150E-03 +/- 7.7E-04
 Resid phdelay (usec) -5.60679E-06 +/- 1.7E-07
 Resid rate (us/s) -4.79198E-09 +/- 9.6E-10
 Resid phase (deg) -173.9 +/- 5.1

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s)
 Bits/sample: 2x2 SampCntNorm: enabled
 Sample rate(MSamp/s): 64
 Data rate(Mb/s): 1024 nlags: 512 t_cohere infinite

sb window (us) -4.000 4.000
 mb window (us) -0.016 0.016
 dr window (ns/s) -0.011 0.011
 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..0VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//BZ.W.72.0OVR16