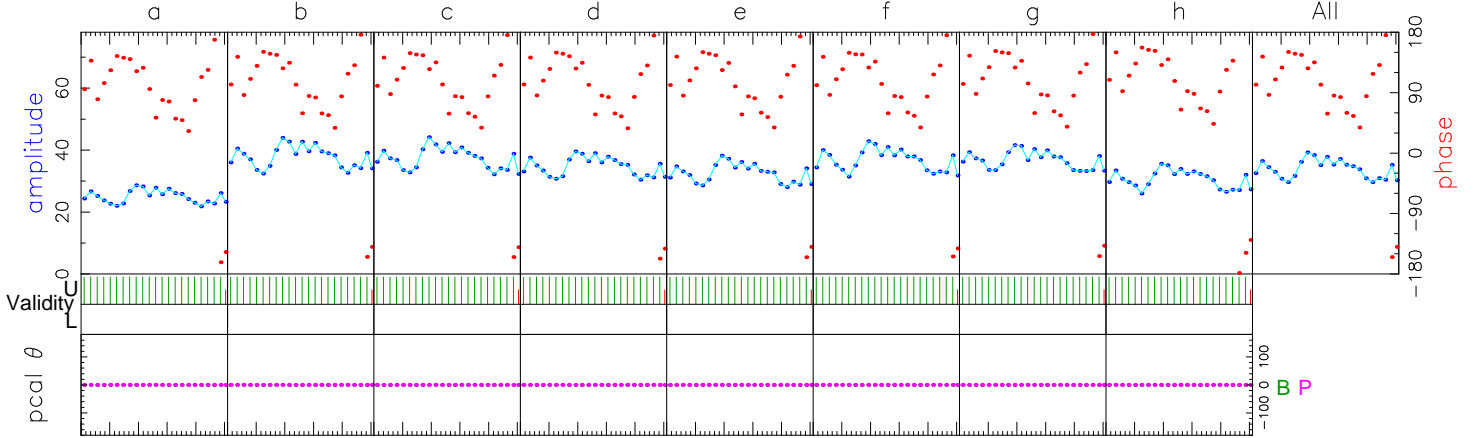
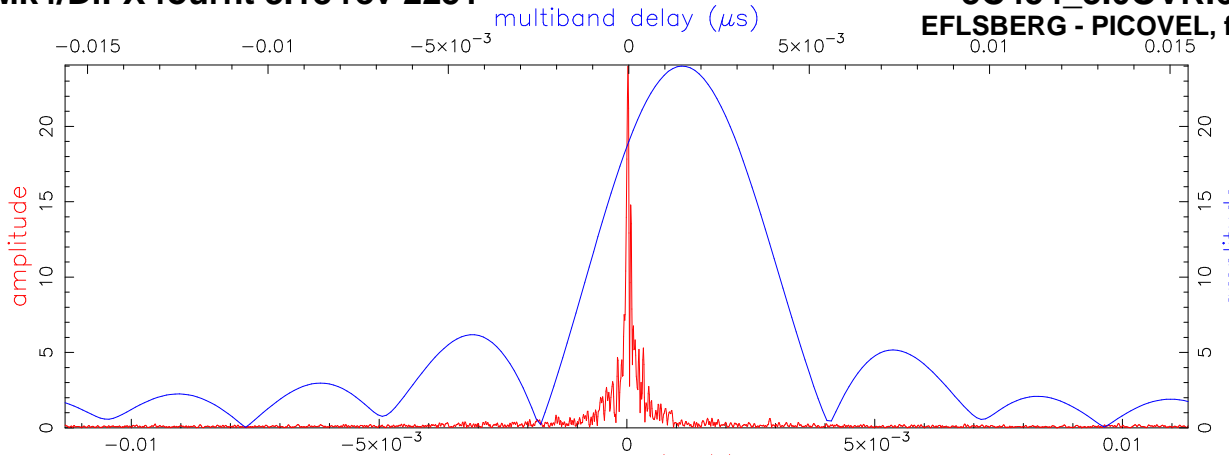


Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



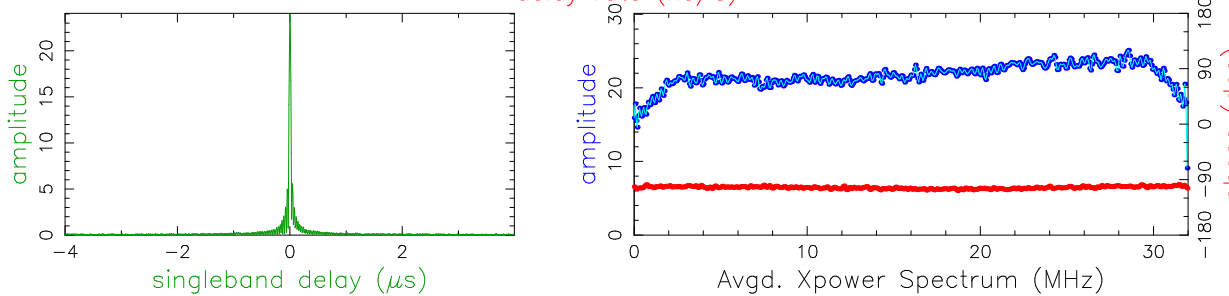
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All	
	106.5	112.3	111.7	111.5	111.4	112.3	114.4	118.3	Phase	112.4	
	18.7	28.3	28.1	26.1	24.4	27.7	27.6	23.0	Ampl.	25.5	
	512.4	512.6	512.4	512.6	512.6	512.4	512.5	512.4	Sbd box	512.5	
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used		
B	0	0	0	0	0	0	0	0	PC freqs		
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		Apriori delay (usec)		-3.16822705808E+03		Resid mbdelay (usec)		-3.83456E-03 +/- 2.5E-06		
Sband delay (usec)	-3.16823069958E+03		Apriori clock (usec)		1.9977873E+01		Resid sbdelay (usec)		-3.64150E-03 +/- 2.0E-05		
Phase delay (usec)	-3.16822705446E+03		Apriori clockrate (us/s)		2.5300001E-07		Resid phdelay (usec)		3.62613E-06 +/- 4.3E-09		
Delay rate (us/s)	3.44394131641E-02		Apriori rate (us/s)		3.44393901913E-02		Resid rate (us/s)		2.29729E-08 +/- 2.5E-11		
Total phase (deg)			Apriori accel (us/s/s)		2.22898763986E-05		Resid phase (deg)		112.4 +/- 0.1		
RMS	43.4	0.3	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		SampCntNorm: enabled		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		nlags: 512 t_cohere infinite		ion window (TEC)		0.00 0.00



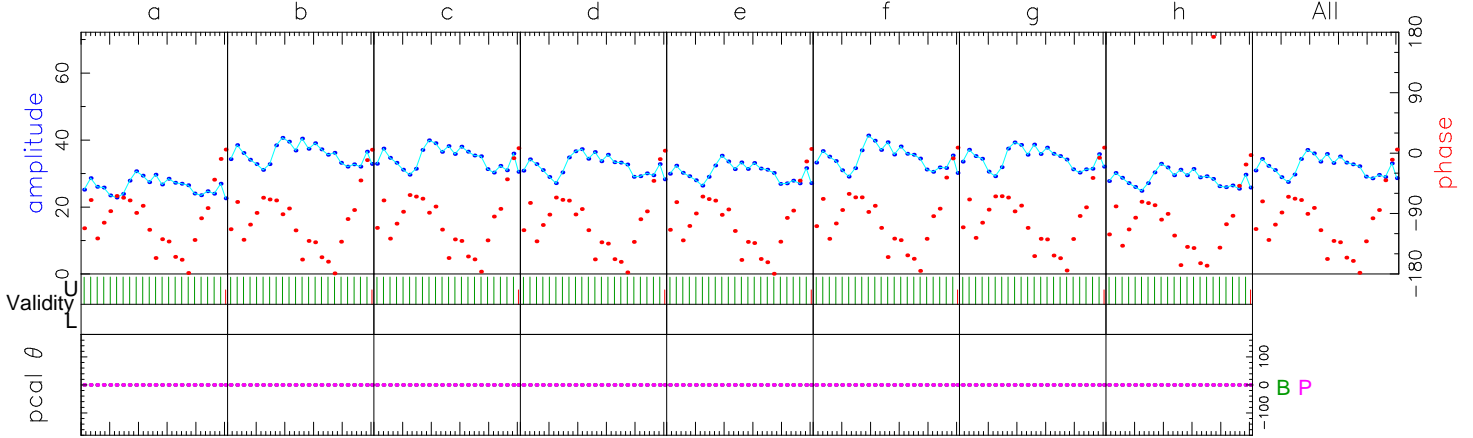
Fringe quality 6

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"



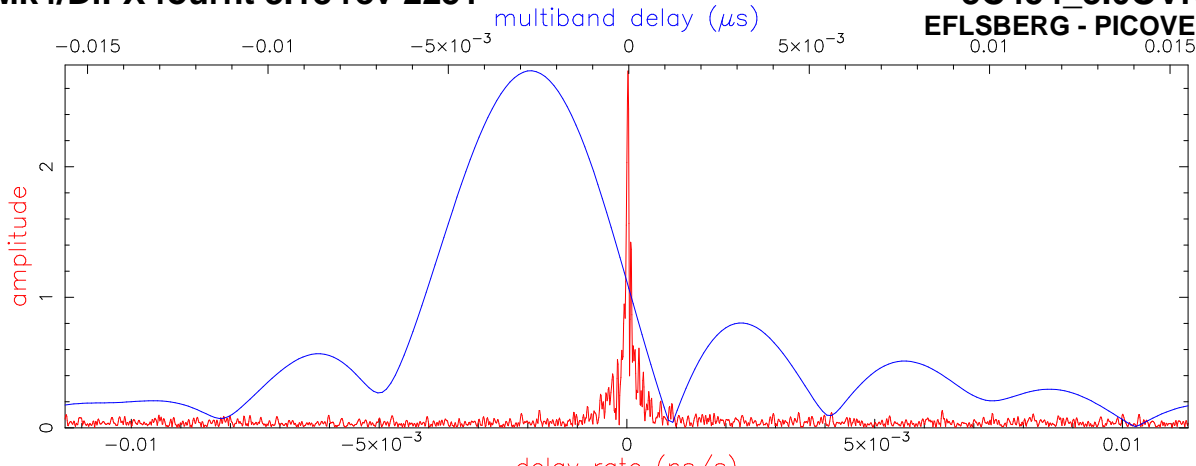
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
-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	

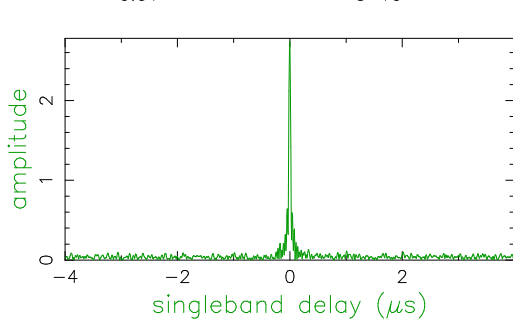
Group delay (usec)(sbd)	-3.16822554070E+03	Apriori delay (usec)	-3.16822705808E+03	Resid mbdelay (usec)	1.51738E-03	+/-	2.7E-06
Sband delay (usec)	-3.16822567858E+03	Apriori clock (usec)	1.9977873E+01	Resid sbdelay (usec)	1.37950E-03	+/-	2.1E-05
Phase delay (usec)	-3.16822706142E+03	Apriori clockrate (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

ph/seg (deg)	43.6	RMS	43.6	Theor.	0.3	Amplitude	24.074 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	35.0		35.0		0.6	Search (2048X32)	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	SampCntNorm:	enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	4.0		4.0		0.2	Inc. seg. avg.	32.072	Bits/sample:	2x2	dr window (ns/s)	-0.011	0.011		
amp/frq (%)	10.0		10.0		0.4	Inc. frq. avg.	24.040	Sample rate(MSamp/s):	64	ion window (TEC)	0.00	0.00		

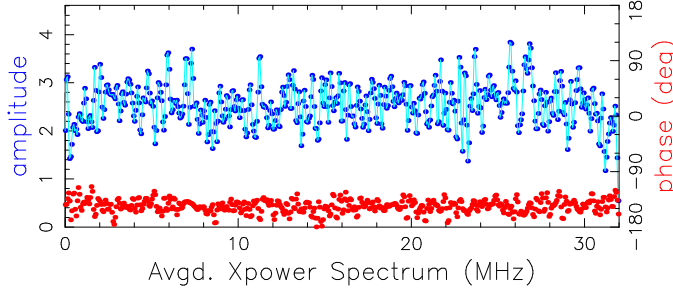


Fringe quality 6

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)  
86140.000  
AP (sec) 0.512

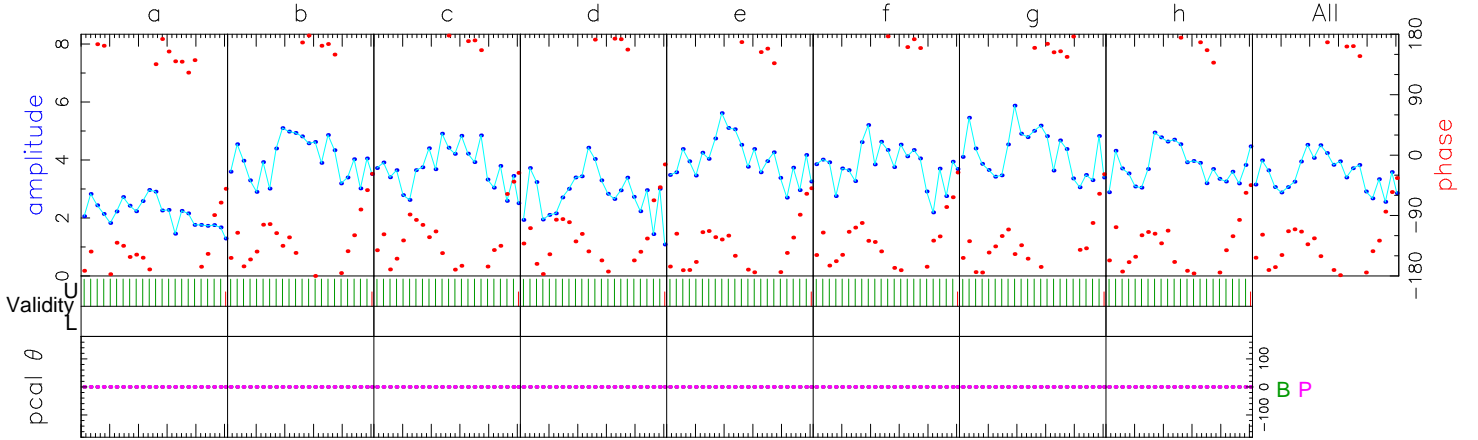


delay rate (ns/s)

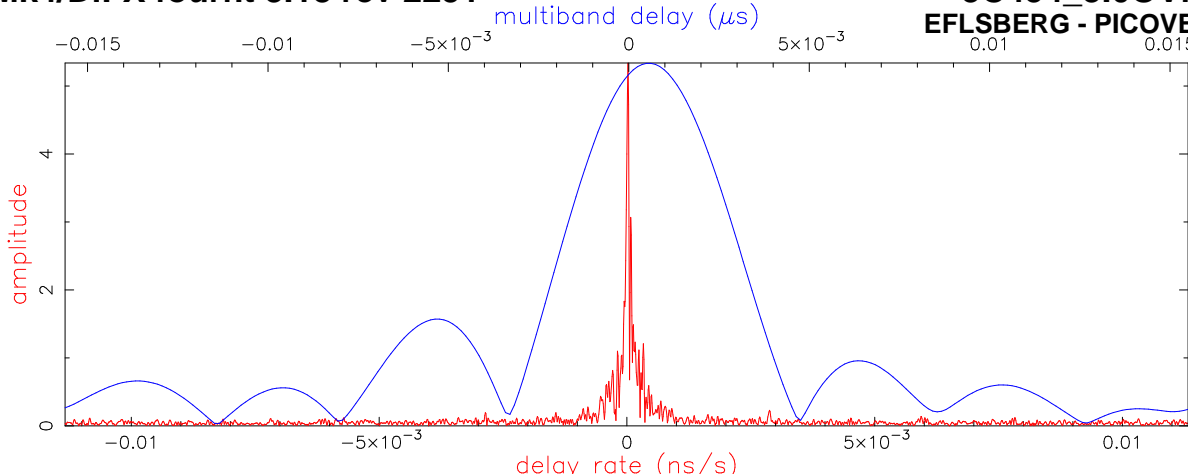


Exp. f191a  
Exper # 16383  
Yr:day 2019:094  
Start 125500.00  
Stop 130000.03  
FRT 125730.00  
Corr/FF/build  
2019:176:083529  
2019:176:085241  
2018:249:082454  
RA & Dec (J2000)  
22h53m57.7479s  
+16°08'53.561"

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



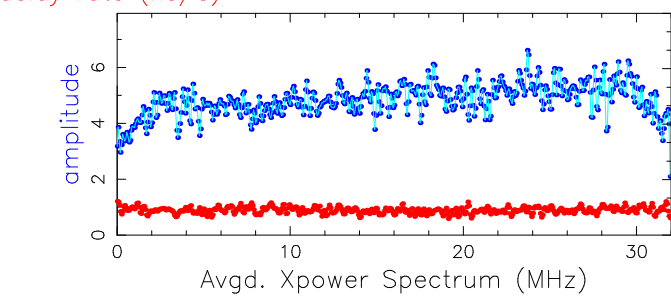
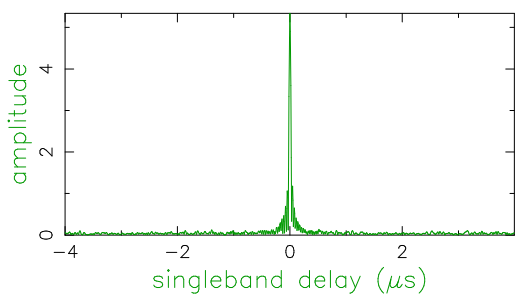
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-172.3	-146.4	-142.8	-141.4	-148.3	-142.6	-154.6	-145.3	Phase	-148.2
	1.7	3.1	2.8	2.2	3.1	3.0	3.3	2.9	Ampl.	2.8
	513.3	512.8	512.6	512.5	512.9	512.3	512.7	512.3	Sbd box	512.6
U/L	586/0	586/0	586/0	586/0	586/0	586/0	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	Manl 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



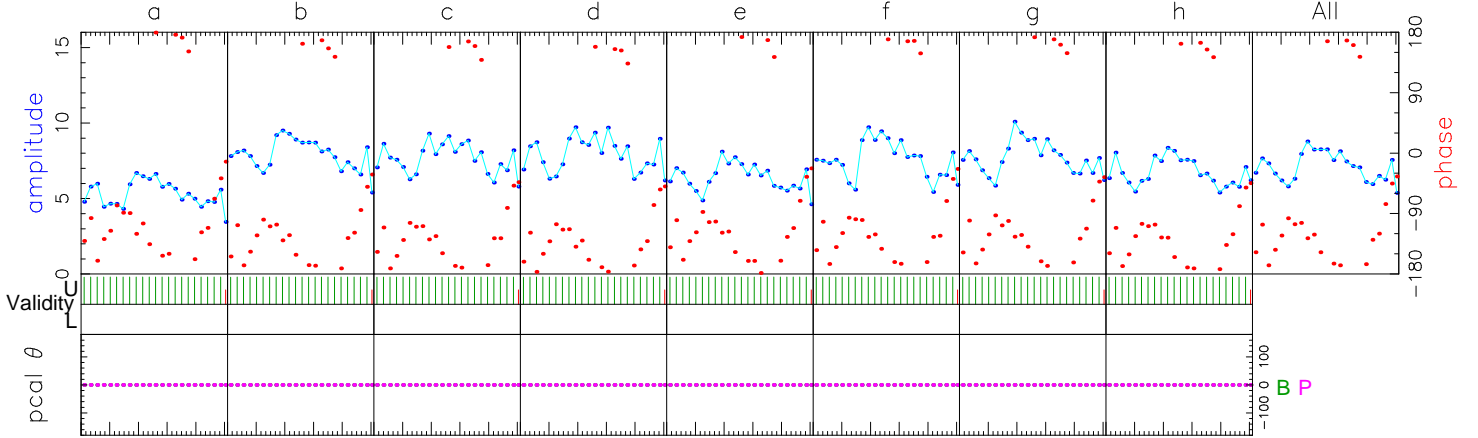
Fringe quality 6

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"

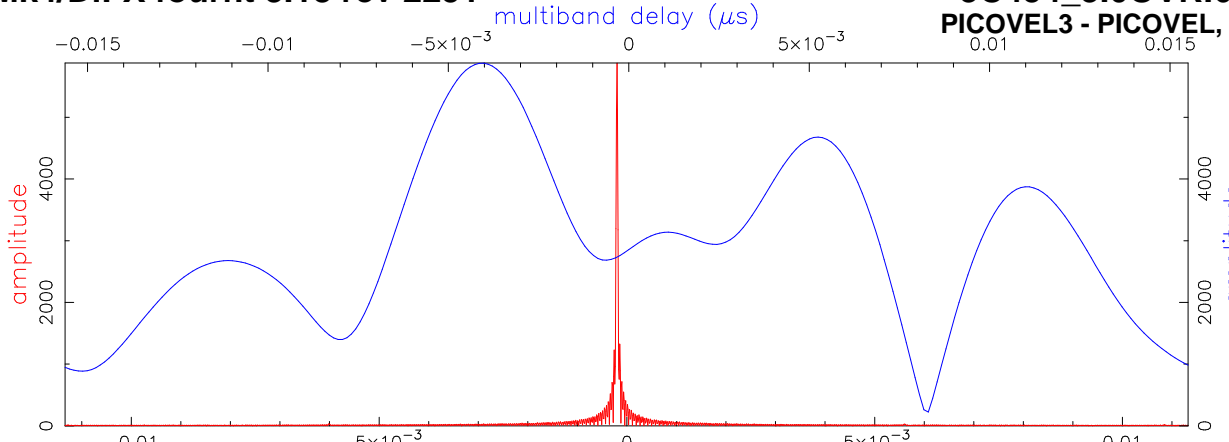


Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



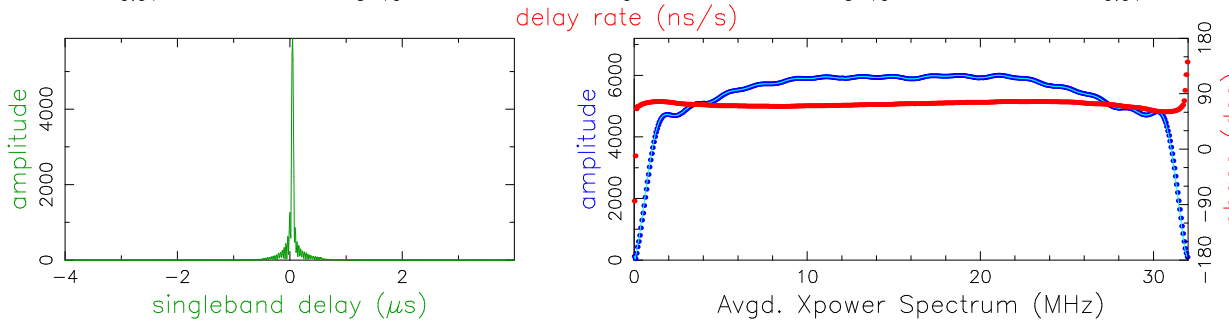
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-127.9	-141.4	-143.4	-148.6	-133.1	-137.1	-136.7	-141.9	Phase	-139.3
	4.0	6.0	5.7	5.9	4.8	5.6	5.8	5.1	Ampl.	5.4
	512.6	513.0	513.1	513.1	513.2	513.0	513.0	512.9	Sbd box	513.1
U/L	586/0	586/0	586/0	586/0	586/0	586/0	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

ph/seg (deg) 43.9 1.5 Theor. Amplitude 5.340 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 37.5 2.7 Search (2048X32) 5.239 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000  
 ph/frq (deg) 7.0 0.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 12.2 1.6 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  
 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..0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007//BP.W.76.0OVR16



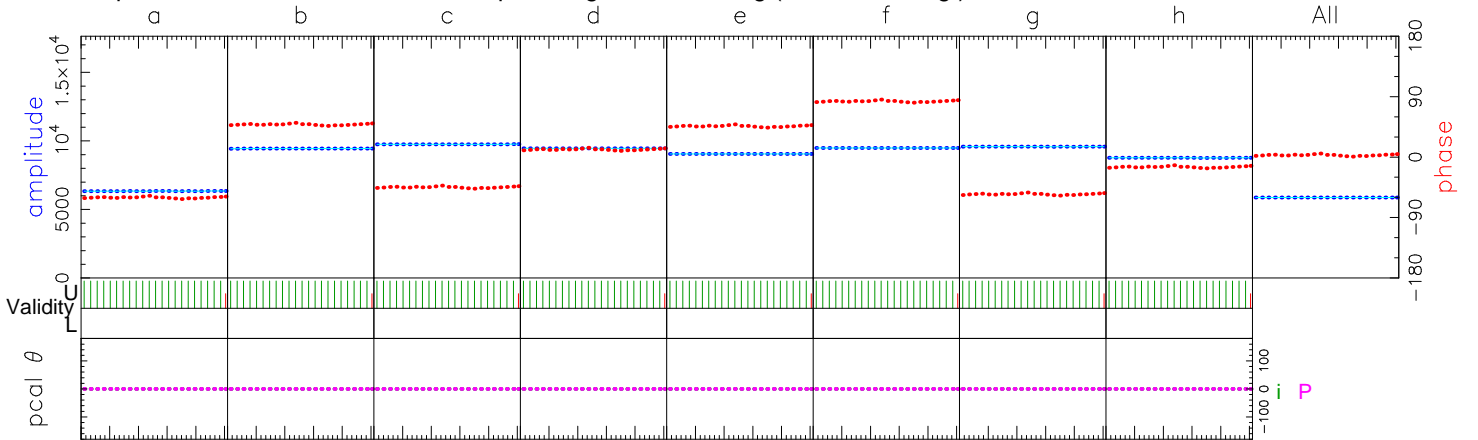
Fringe quality 5

SNR 195895.0  
 Int time 296.825  
 Amp 5880.928  
 Phase 2.9  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.046287  
 MBD -0.004082  
 Fringe rate (Hz)  
 -0.017177  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.000  
 AP (sec) 0.512



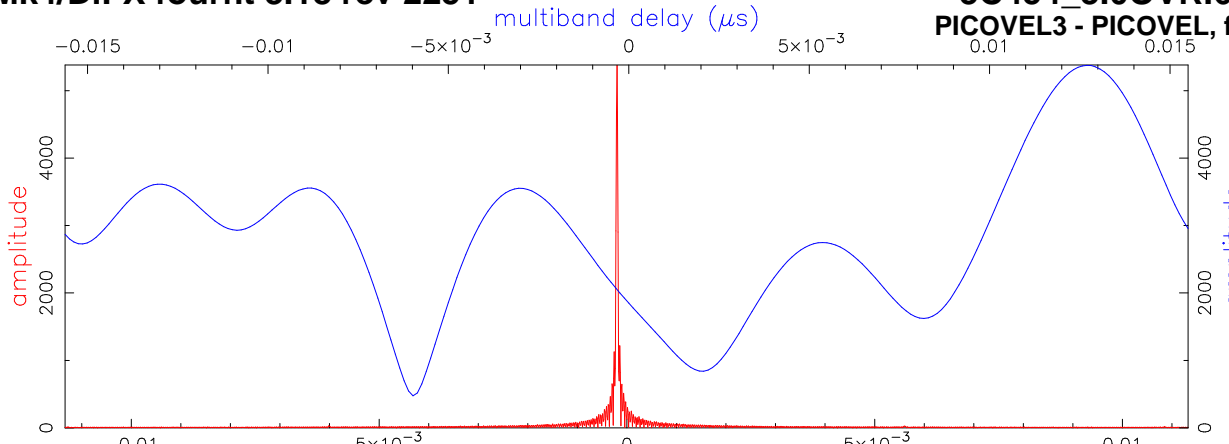
Exp. f191a  
 Exper # 16383  
 Yr:day 2019:094  
 Start 125500.00  
 Stop 130000.03  
 FRT 125730.00  
 Corr/FF/build  
 2019:176:083529  
 2019:176:085225  
 2018:249:082454  
 RA & Dec (J2000)  
 22h53m57.7479s  
 +16°08'53.561"

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

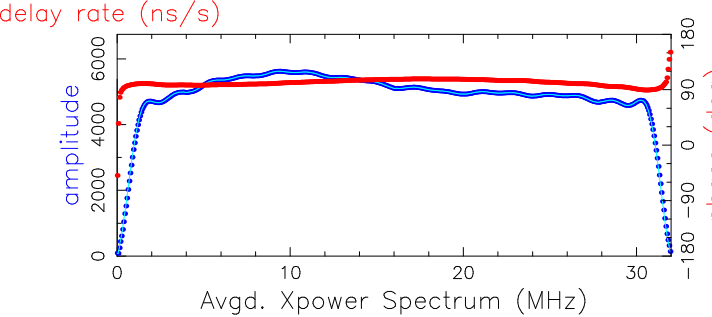
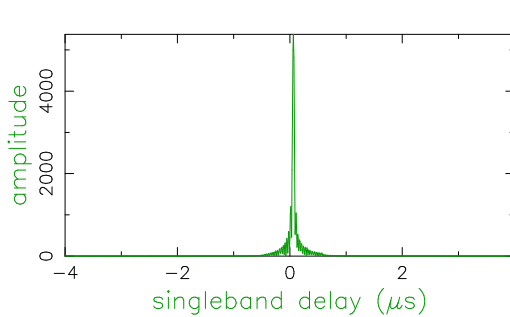


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-60.2	48.5	-44.9	11.2	46.0	83.1	-55.2	-14.8	Phase	2.9
	6342.5	9440.6	9755.1	9454.3	9053.6	9483.6	9579.7	8766.3	Amp.	8984.5
	520.1	519.7	519.1	519.2	519.0	518.9	518.9	518.9	Sbd box	518.9
UL	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
i	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
i:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
i:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
i	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
i	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)	-4.25891591258E-01		Apriori delay (usec)		-4.84310000000E-01		Resid mbdelay (usec)		-4.08159E-03	+/- 1.1E-08
Sband delay (usec)	-4.38023000000E-01		Apriori clock (usec)		-4.8430824E-01		Resid sbdelay (usec)		4.62870E-02	+/- 8.8E-08
Phase delay (usec)	-4.84309907972E-01		Apriori clockrate (us/s)		2.0000001E-07		Resid phdelay (usec)		9.20275E-08	+/- 1.9E-11
Delay rate (us/s)	5.87794874276E-10		Apriori rate (us/s)		1.99999999984E-07		Resid rate (us/s)		-1.99412E-07	+/- 1.1E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		2.9	+/- 0.0

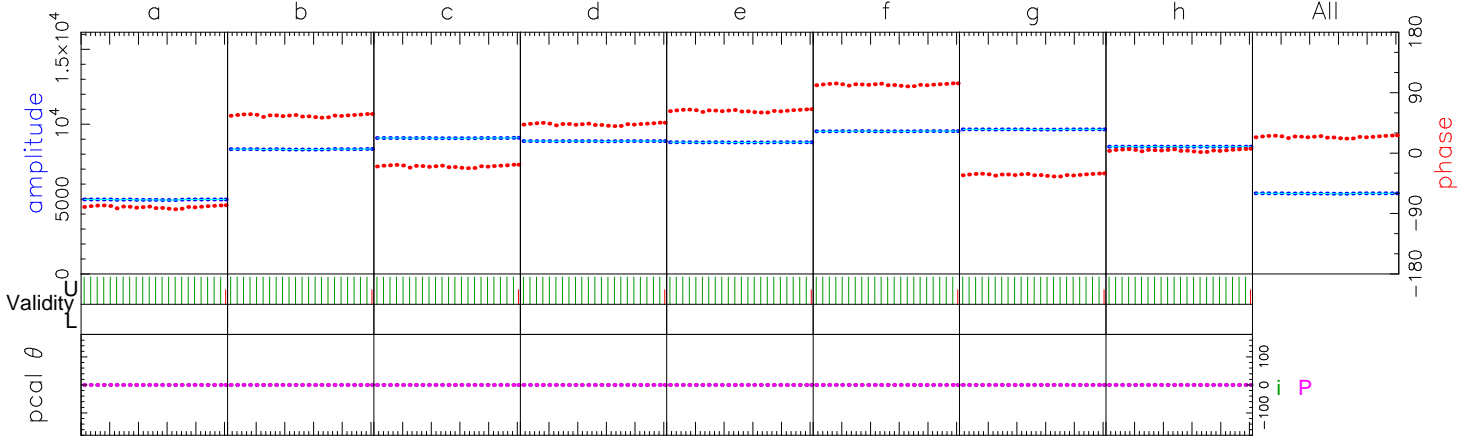
ph/seg (deg) 1.1 0.0 Theor. Amplitude 5880.928 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 0.0 0.0 Search (2048X32) 5857.421 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000  
 ph/frq (deg) 58.3 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 55.7 0.0 Inc. seg. avg. 5878.990 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. 8984.493 simultaneous interpolator ion window (TEC) 0.00 0.00



Fringe quality 5  
 SNR 179234.8  
 Int time 296.825  
 Amp 5380.775  
 Phase 24.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.061752  
 MBD 0.012704  
 Fringe rate (Hz)  
 -0.017174  
 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  
 2019:176:085234  
 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

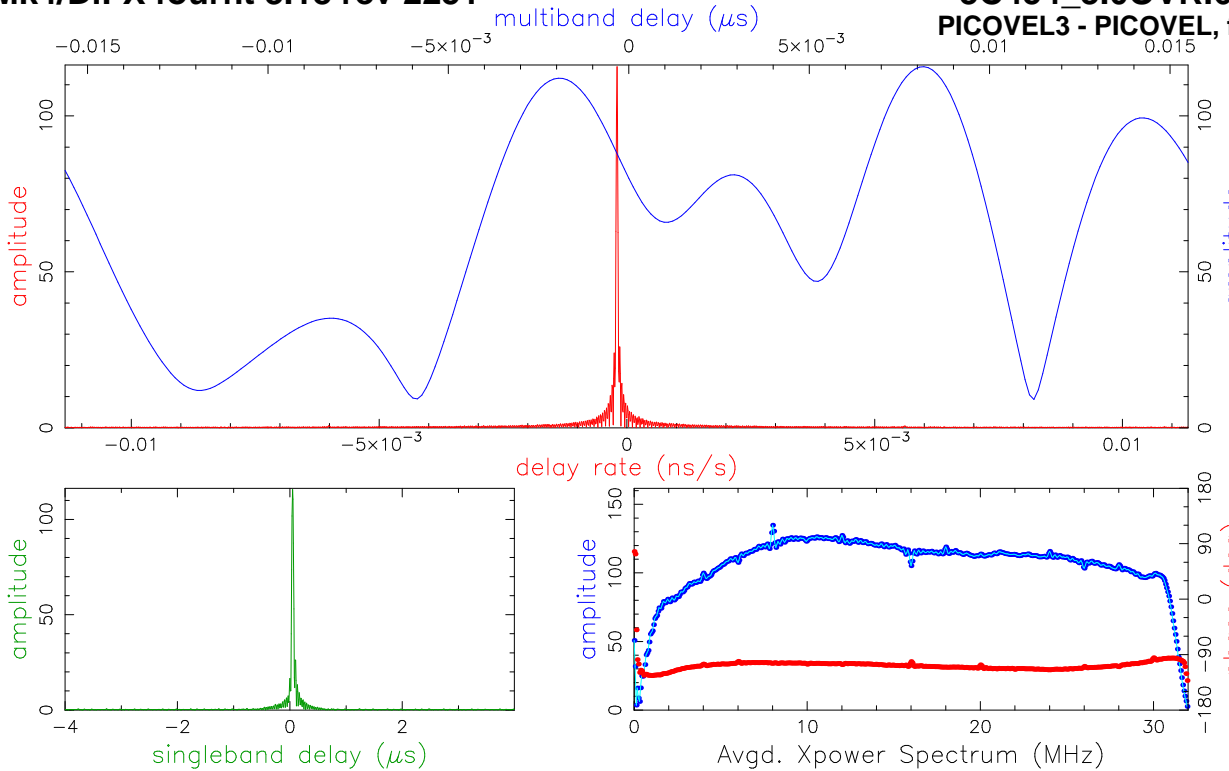


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-80.2	55.8	-19.6	43.0	63.0	101.8	-32.3	4.2	Phase	24.2
	4963.6	8323.3	9072.2	8869.6	8791.3	9530.4	9649.0	8499.0	Ampl.	8462.3
	523.3	522.0	521.4	521.2	521.1	521.1	521.1	520.8	Sbd box	520.9
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
i	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
i:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
i:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
i	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -4.09105653758E-01 Apriori delay (usec) -4.84310000000E-01 Resid mbdelay (usec) 1.27043E-02 +/- 1.2E-08  
 Sband delay (usec) -4.22557500000E-01 Apriori clock (usec) -4.8430824E-01 Resid sbdelay (usec) 6.17525E-02 +/- 9.6E-08  
 Phase delay (usec) -4.84309220350E-01 Apriori clockrate (us/s) 2.0000001E-07 Resid phdelay (usec) 7.79650E-07 +/- 2.1E-11  
 Delay rate (us/s) 6.24639870494E-10 Apriori rate (us/s) 1.99999999984E-07 Resid rate (us/s) -1.99375E-07 +/- 1.2E-13  
 Total phase (deg) -142.6 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 24.2 +/- 0.0

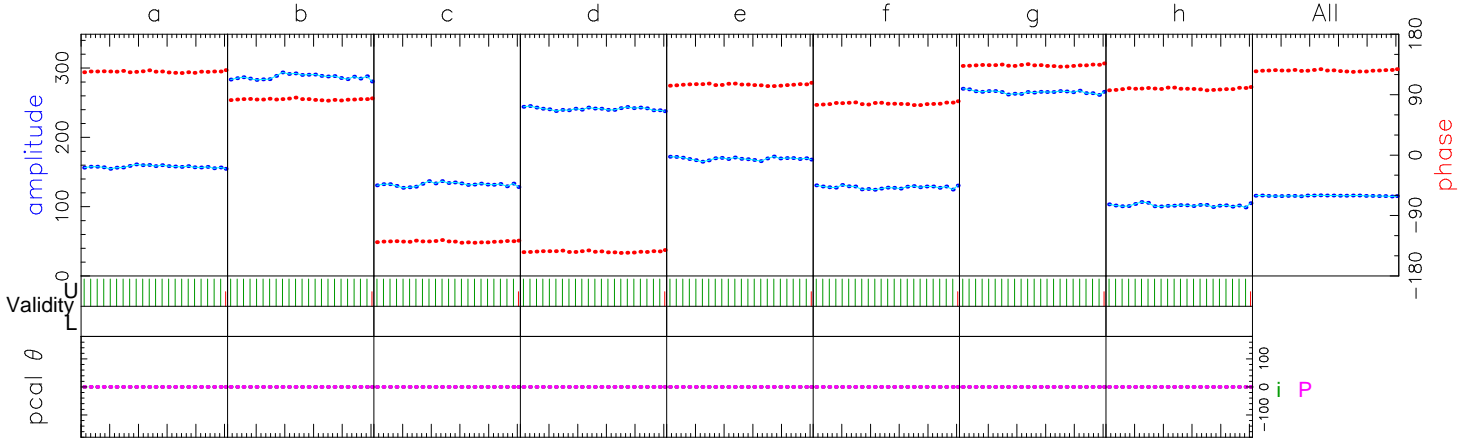
RMS Theor. Amplitude 5380.775 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 1.3 0.0 Search (2048X32) 5366.846 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000  
 amp/seg (%) 0.1 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 64.9 0.0 Inc. seg. avg. 5377.798 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 (%) 62.8 0.0 Inc. frq. avg. 8462.300 Data rate(Mb/s): 1024 nlags: 512 t\_cohere infinite ion window (TEC) 0.00 0.00

i: az 249.4 el 49.9 pa 51.2 P: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//iP..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//iP.W.40.0OVRI6



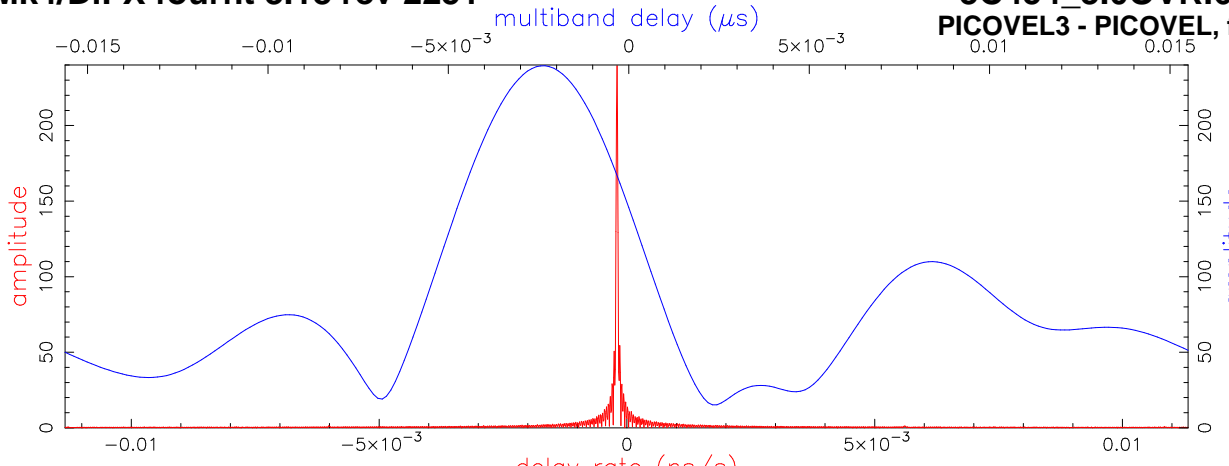
Fringe quality 5  
 SNR 3874.7  
 Int time 296.825  
 Amp 116.323  
 Phase 125.8  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.048756  
 MBD 0.008198  
 Fringe rate (Hz)  
 -0.017179  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. f191a  
 Exper # 16383  
 Yr:day 2019:094  
 Start 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
	124.0	82.9	-128.7	-143.7	104.7	76.5	133.5	98.6	Phase	125.8
	157.7	287.3	132.2	241.3	169.2	128.0	265.5	102.0	Ampl.	185.4
	520.6	519.4	520.4	519.2	519.4	518.5	519.4	519.3	Sbd box	519.2
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
i	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
i:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
i:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
i	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
i	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)	-4.44862278758E-01		Apriori delay (usec)		-4.84310000000E-01		Resid mbdelay (usec)		8.19772E-03	+/- 5.6E-07
Sband delay (usec)	-4.35553500000E-01		Apriori clock (usec)		-4.8430824E-01		Resid sbdelay (usec)		4.87565E-02	+/- 4.4E-06
Phase delay (usec)	-4.84305944505E-01		Apriori clockrate (us/s)		2.0000001E-07		Resid phdelay (usec)		4.05549E-06	+/- 9.5E-10
Delay rate (us/s)	5.66538145689E-10		Apriori rate (us/s)		1.99999999984E-07		Resid rate (us/s)		-1.99433E-07	+/- 5.5E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		125.8	+/- 0.0

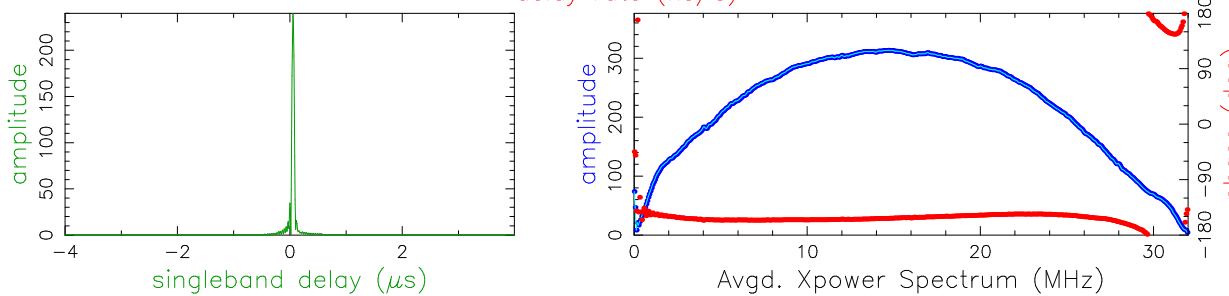
RMS Theor. Amplitude 116.323 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 1.0 0.1 Search (2048X32) 113.482 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000  
 amp/seg (%) 0.6 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 64.3 0.0 Inc. seg. avg. 115.768 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 81.7 0.1 Inc. frq. avg. 185.386 Data rate(Mb/s): 1024 nlags: 512 t\_cohere infinite ion window (TEC) 0.00 0.00  
 i: az 249.4 el 49.9 pa 51.2 P: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//iP..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//iP.W.59.0OVRI6



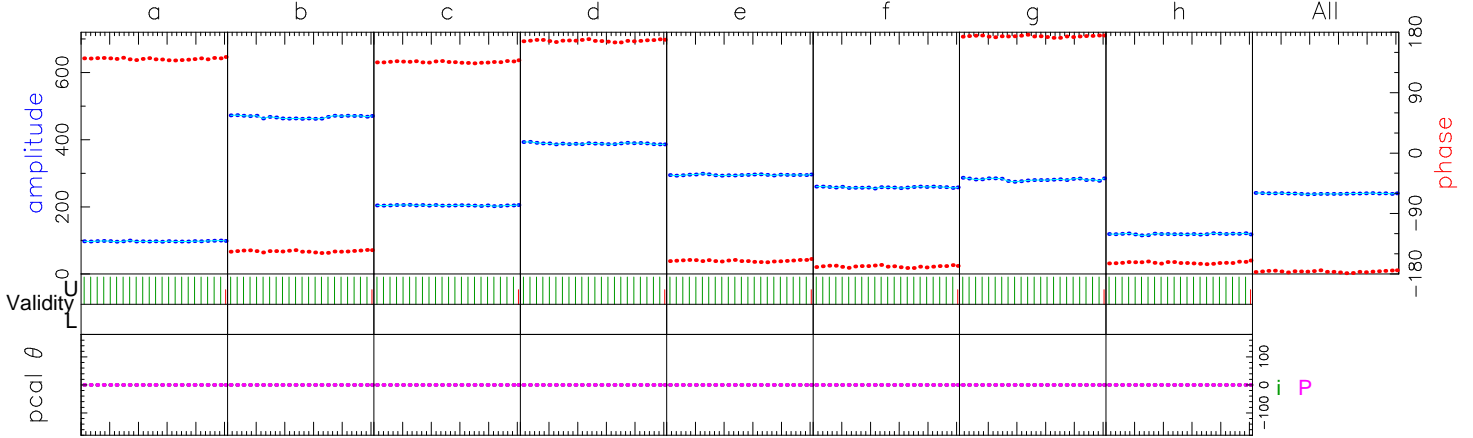
Fringe quality 5

SNR 7996.1  
Int time 296.825  
Amp 240.050  
Phase -176.3  
PFD 0.0e+00  
Delays (us)  
SBD 0.056076  
MBD -0.002372  
Fringe rate (Hz)  
-0.017176  
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  
2019:176:085249  
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



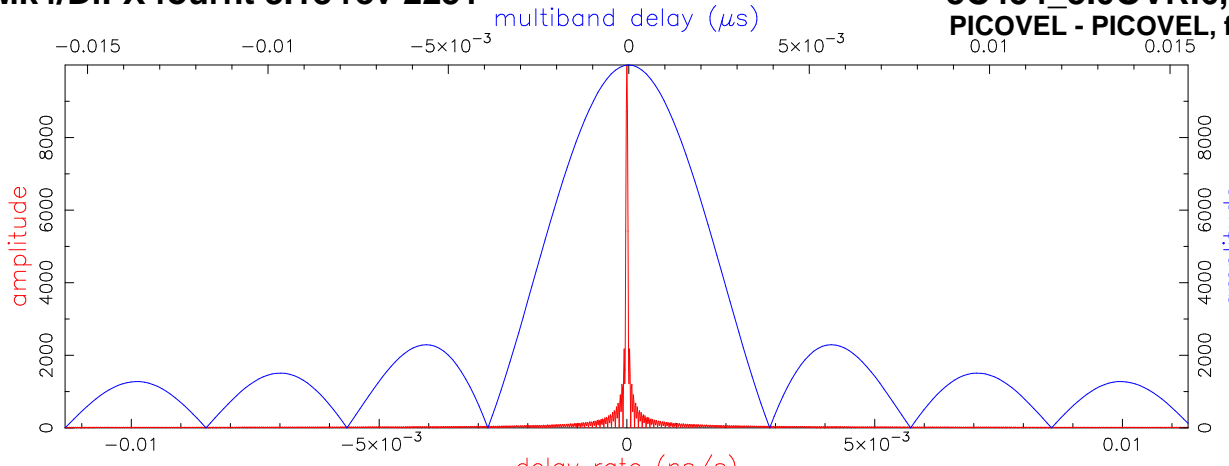
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	140.2	-146.2	135.6	167.2	-160.3	-168.7	173.8	-163.2	Phase	-176.3
	97.7	467.6	204.3	388.5	295.1	258.1	281.0	119.0	Ampl.	263.9
	519.2	520.3	518.8	519.9	520.3	521.8	519.7	518.8	Sbd box	520.2
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
i	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
i:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
i:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
i	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) -4.24181591258E-01 Apriori delay (usec) -4.84310000000E-01 Resid mbdelay (usec) -2.37159E-03 +/- 2.7E-07  
 Sband delay (usec) -4.28234000000E-01 Apriori clock (usec) -4.8430824E-01 Resid sbdelay (usec) 5.60760E-02 +/- 2.2E-06  
 Phase delay (usec) -4.84315686381E-01 Apriori clockrate (us/s) 2.0000001E-07 Resid phdelay (usec) -5.68638E-06 +/- 4.6E-10  
 Delay rate (us/s) 6.03383141907E-10 Apriori rate (us/s) 1.99999999984E-07 Resid rate (us/s) -1.99397E-07 +/- 2.7E-12  
 Total phase (deg) -343.2 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) -176.3 +/- 0.0

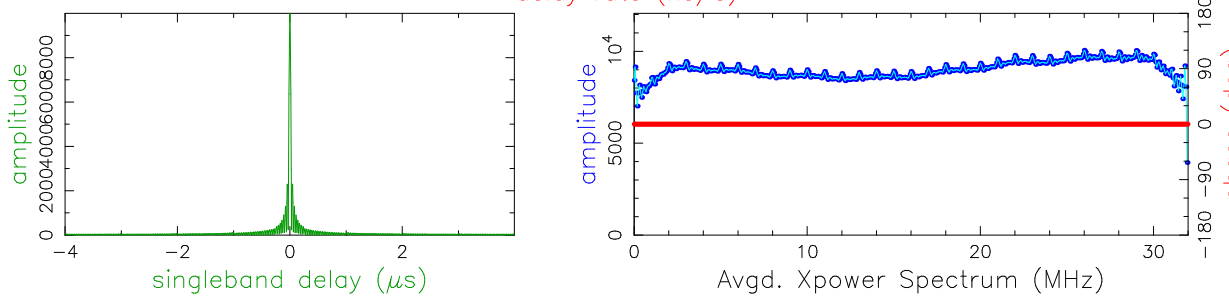
RMS Theor. Amplitude 240.050 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 1.1 0.0 Search (2048X32) 236.271 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000  
 amp/seg (%) 0.5 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 31.5 0.0 Inc. seg. avg. 239.609 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 50.0 0.0 Inc. frq. avg. 263.919 Data rate(Mb/s): 1024 nlags: 512 t\_cohere infinite ion window (TEC) 0.00 0.00

i: az 249.4 el 49.9 pa 51.2 P: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//iP..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//iP.W.78.0OVRI6

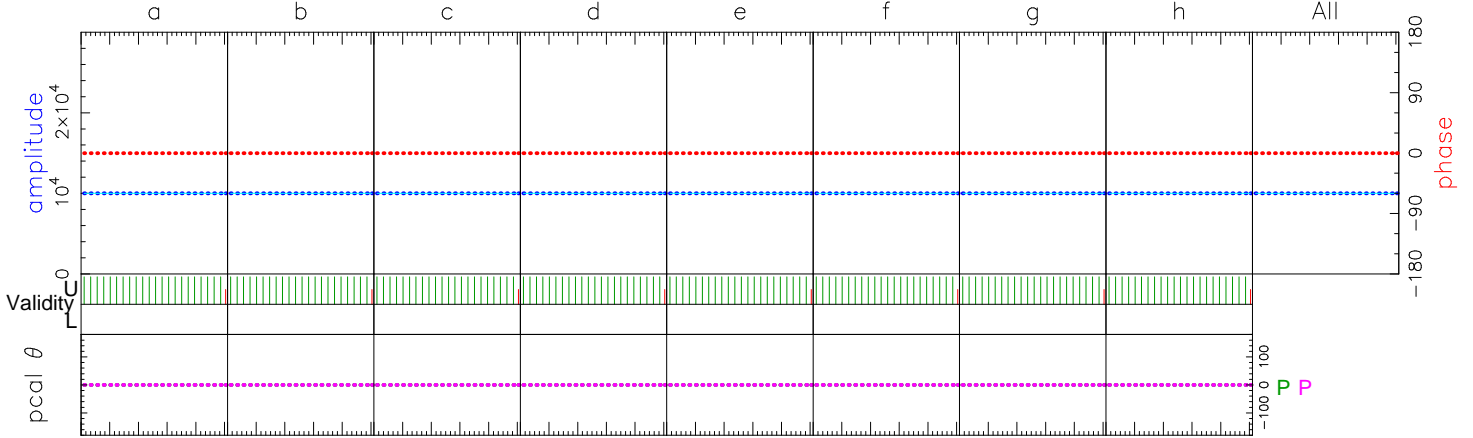




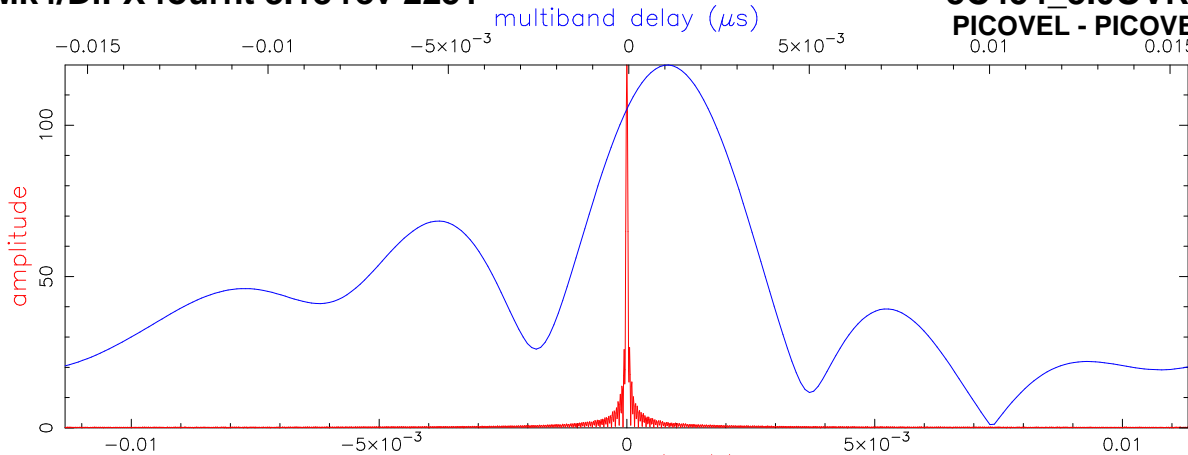
Fringe quality 9  
 SNR 334730.4  
 Int time 299.667  
 Amp 9999.843  
 Phase 0.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.000000  
 MBD 0.000000  
 Fringe rate (Hz)  
 0.000000  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. f191a  
 Exper # 16383  
 Yr:day 2019:094  
 Start 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

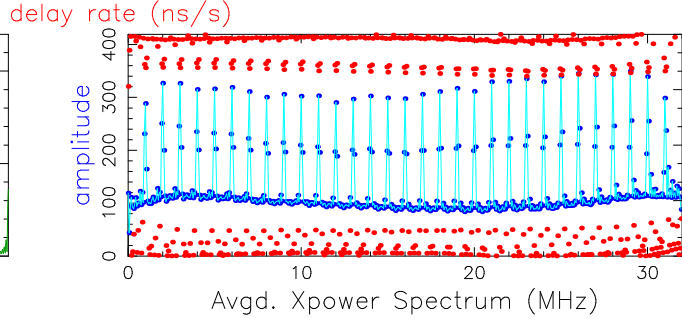
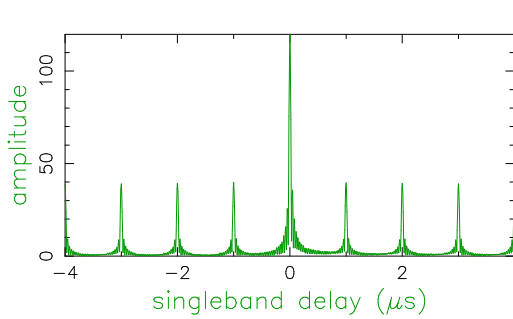


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0		
P	0	0	0	0	0	0	0	0		
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
P	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
P	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
RMS	0.0	0.0								
Theor.										
Amplitude					9999.843 +/- 0.030					
Search (2048X32)					9999.843					
Interp.					0.000					
Inc. seg. avg.					10000.000					
Inc. frq. avg.					9999.844					
Apriori delay (usec)					0.0000000000E+00					
Apriori clock (usec)					0.0000000E+00					
Apriori clockrate (us/s)					0.0000000E+00					
Apriori rate (us/s)					0.0000000000E+00					
Apriori accel (us/s/s)					0.0000000000E+00					
Resid mbdelay (usec)					0.0000000000E+00					
Resid sbdelay (usec)					0.0000000E+00					
Resid phdelay (usec)					0.0000000E+00					
Resid rate (us/s)					0.0000000E+00					
Resid phase (deg)					0.0					
Pcal mode:	MANUAL	MANUAL			MANUAL					
Pcal rate:	0.000E+00	0.000E+00			0.000E+00					
PC period (AP's)	5	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									



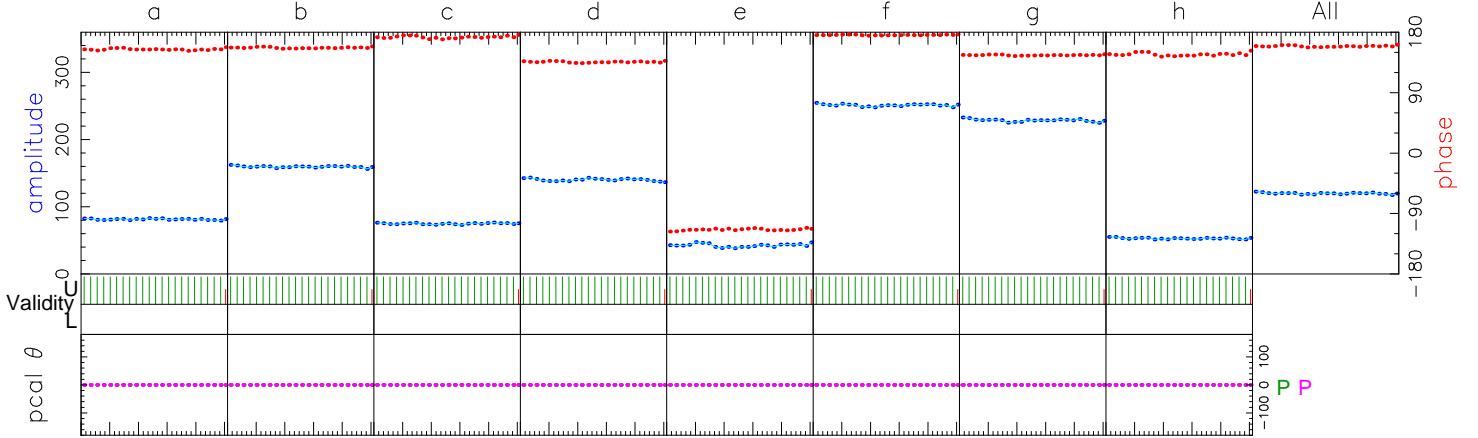
Fringe quality 5

SNR 4013.8  
 Int time 299.667  
 Amp 119.909  
 Phase 159.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.000009  
 MBD 0.001073  
 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  
 2019:176:085240  
 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

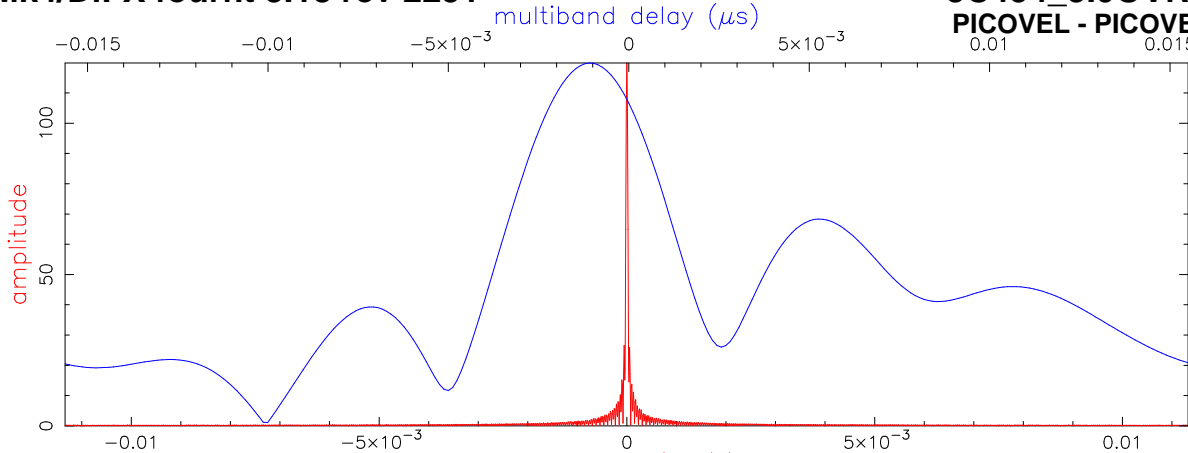


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	154.4	156.8	172.5	135.6	-113.9	175.7	145.8	146.8	Phase	159.0
	81.4	159.6	75.0	140.2	42.6	251.1	228.6	53.0	Ampl.	128.9
	513.4	513.3	512.8	512.3	510.2	511.9	513.6	512.4	Sbd box	513.0
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
P	0	0	0	0	0	0	0	0	PC freqs	
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	1.07250000000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	1.07250E-03	+/-	5.4E-07
Sband delay (usec)	9.50000000000E-06	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	9.50000E-06	+/-	4.3E-06
Phase delay (usec)	5.12761679326E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.12762E-06	+/-	9.2E-10
Delay rate (us/s)	-3.54278809792E-12	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-3.54279E-12	+/-	5.3E-12
Total phase (deg)	159.0	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	159.0	+/-	0.0

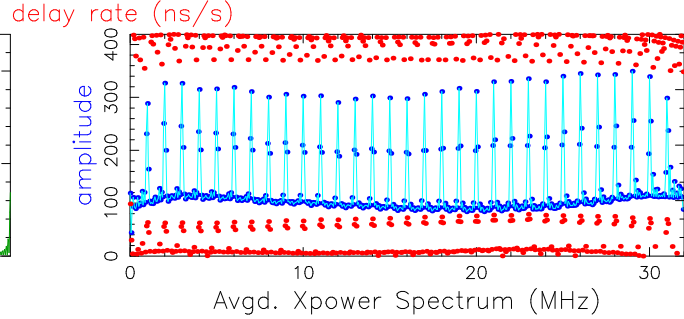
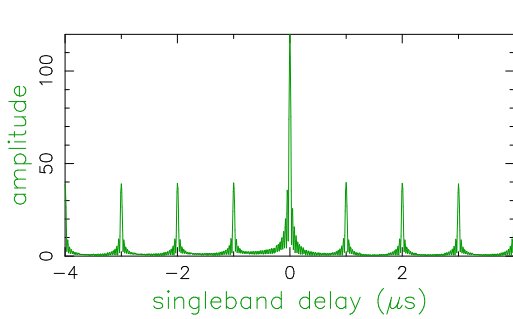
ph/seg (deg)	1.0	RMS	1.0	Theor.	0.1	Amplitude	119.909 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	1.0		1.0		0.1	Search (2048X32)	119.801	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.016	0.016
ph/frq (deg)	38.6		38.6		0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	62.5		62.5		0.1	Inc. seg. avg.	119.929	Sample rate(MSamp/s):	64			ion window (TEC)	0.00	0.00
						Inc. frq. avg.	128.947	Data rate(Mb/s):	1024	nlags:	512	t_cohere	infinite	

P: az 249.4 el 49.9 pa 51.2 P: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//PP..0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007//PP.W.49.0OVR16



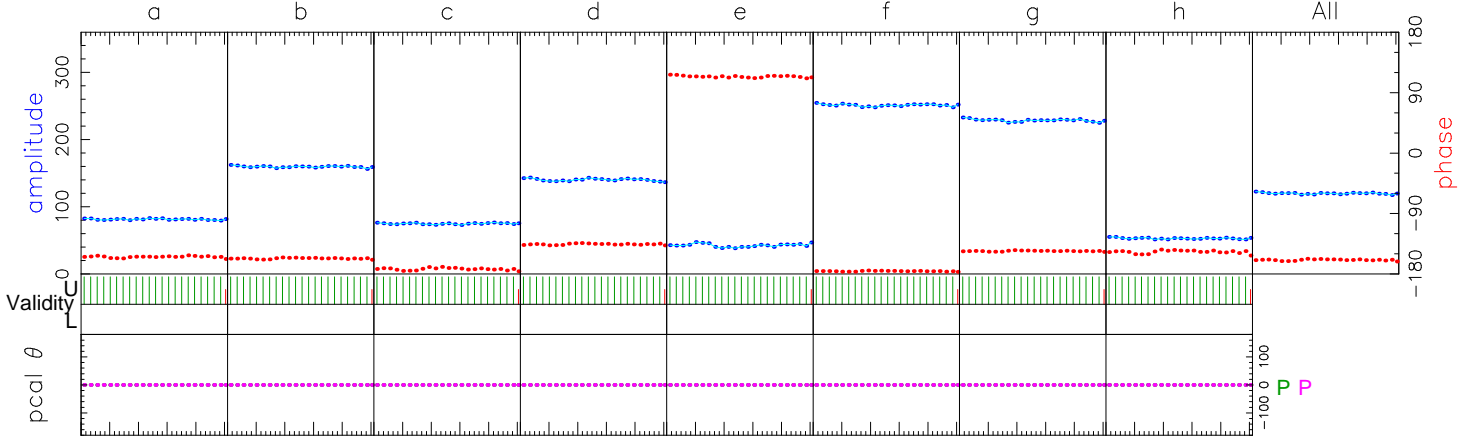
Fringe quality 5

SNR 4013.8  
 Int time 299.667  
 Amp 119.909  
 Phase -159.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.000009  
 MBD -0.001073  
 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"

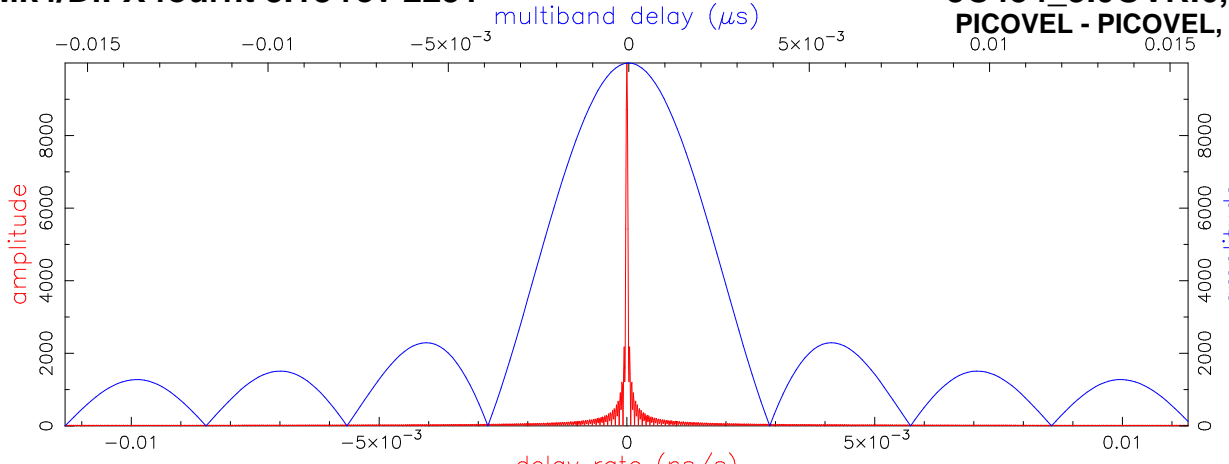
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-154.4	-156.8	-172.5	-135.6	113.9	-175.7	-145.8	-146.8	Phase	-159.0
	81.4	159.6	75.0	140.2	42.6	251.1	228.6	53.0	Ampl.	128.9
	512.6	512.7	513.2	513.7	515.8	514.1	512.4	513.6	Sbd box	513.0
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
P	0	0	0	0	0	0	0	0	PC freqs	
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.07250000000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-1.07250E-03	+/-	5.4E-07
Sband delay (usec)	-9.50000000000E-06	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-9.50000E-06	+/-	4.3E-06
Phase delay (usec)	-5.12761679321E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.12762E-06	+/-	9.2E-10
Delay rate (us/s)	3.54278809792E-12	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	3.54279E-12	+/-	5.3E-12
Total phase (deg)	-159.0	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-159.0	+/-	0.0

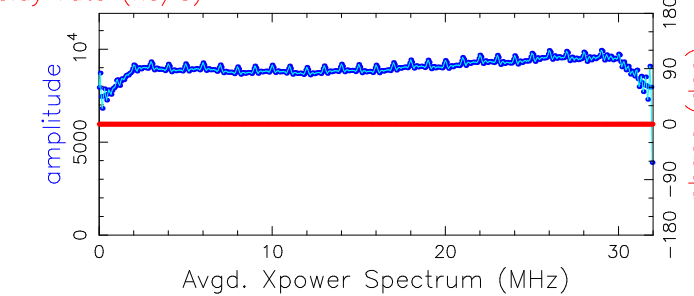
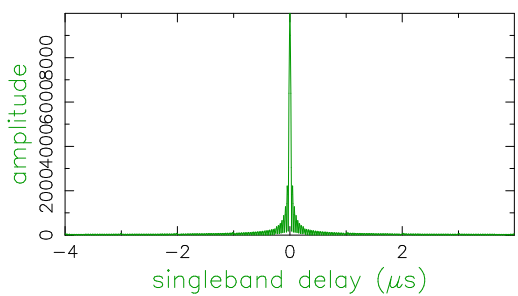
ph/seg (deg)	1.0	Theor.	Amplitude	119.909 +/- 0.030	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	1.0	0.1	Search (2048X32)	119.801	Pcal rate: 0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.016	0.016
ph/frq (deg)	38.6	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled		dr window (ns/s)	-0.011	0.011
amp/frq (%)	62.5	0.1	Inc. seg. avg.	119.929	Sample rate(MSamp/s): 64			ion window (TEC)	0.00	0.00
			Inc. frq. avg.	128.947	Data rate(Mb/s): 1024	nlags: 512	t_cohere infinite			



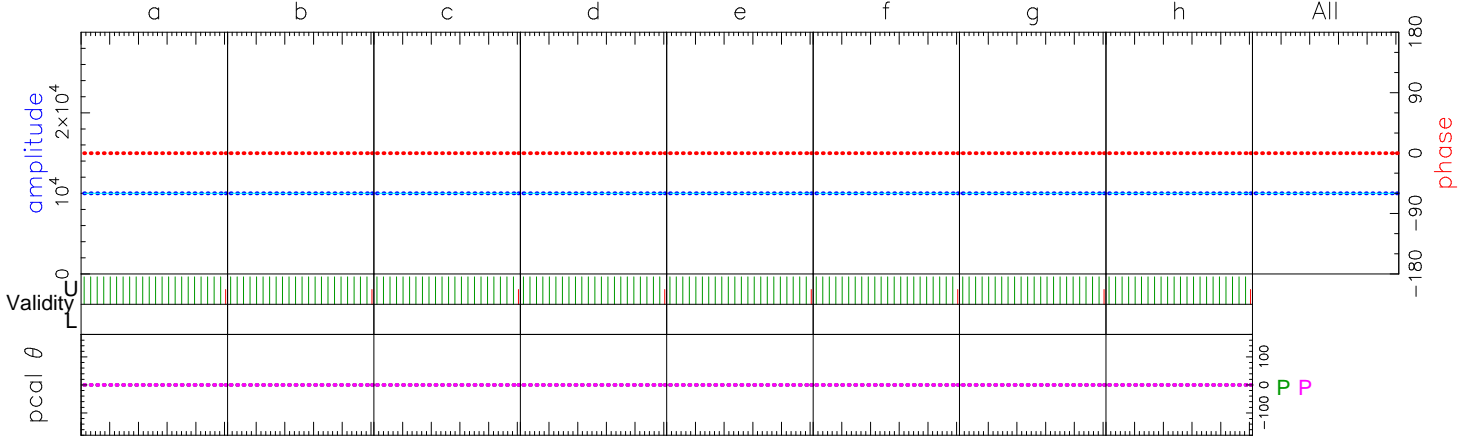
Fringe quality 9

SNR 334730.4  
 Int time 299.667  
 Amp 9999.843  
 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"



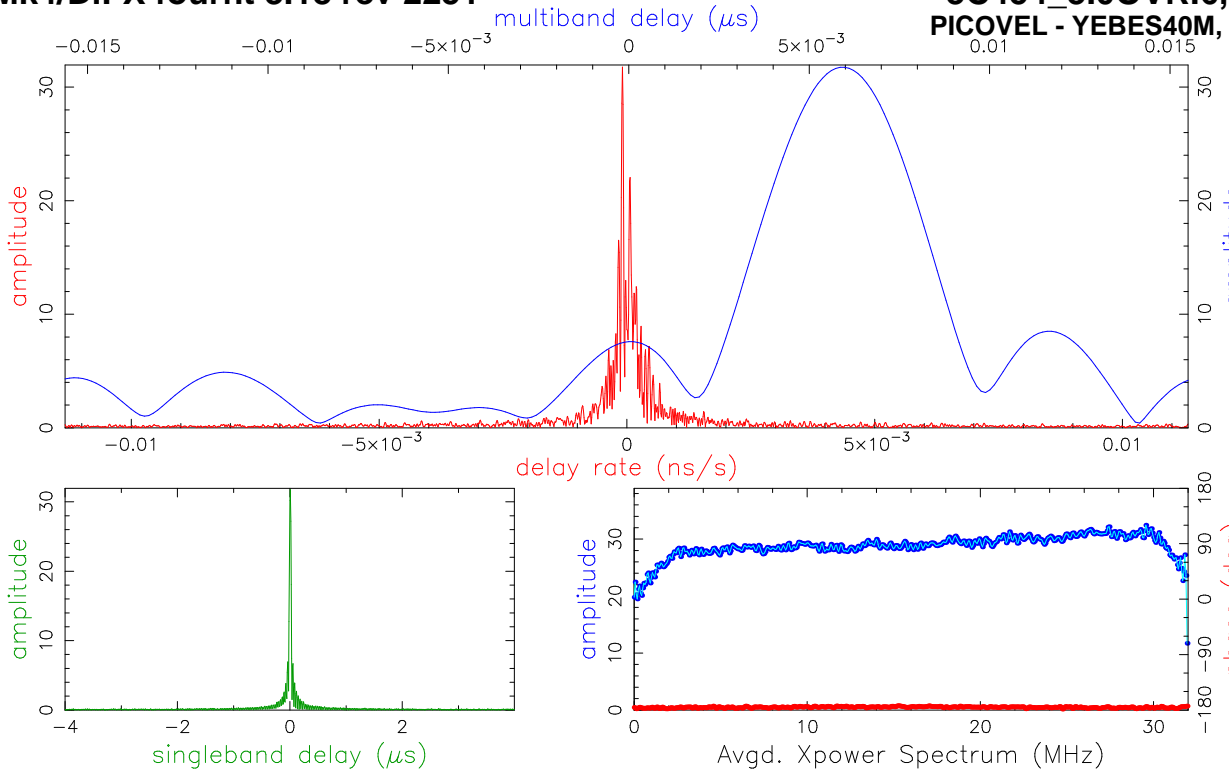
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
0.0	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	10000.0	Ampl.	9999.8
513.0	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	586/0	APs used	
P 0	0	0	0	0	0	0	0	0	PC freqs	
P 0	0	0	0	0	0	0	0	0	PC freqs	
P:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
P 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P 1000	1000	1000	1000	1000	1000	1000	1000	1000		
P W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
									Tracks	
P W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
									Tracks	

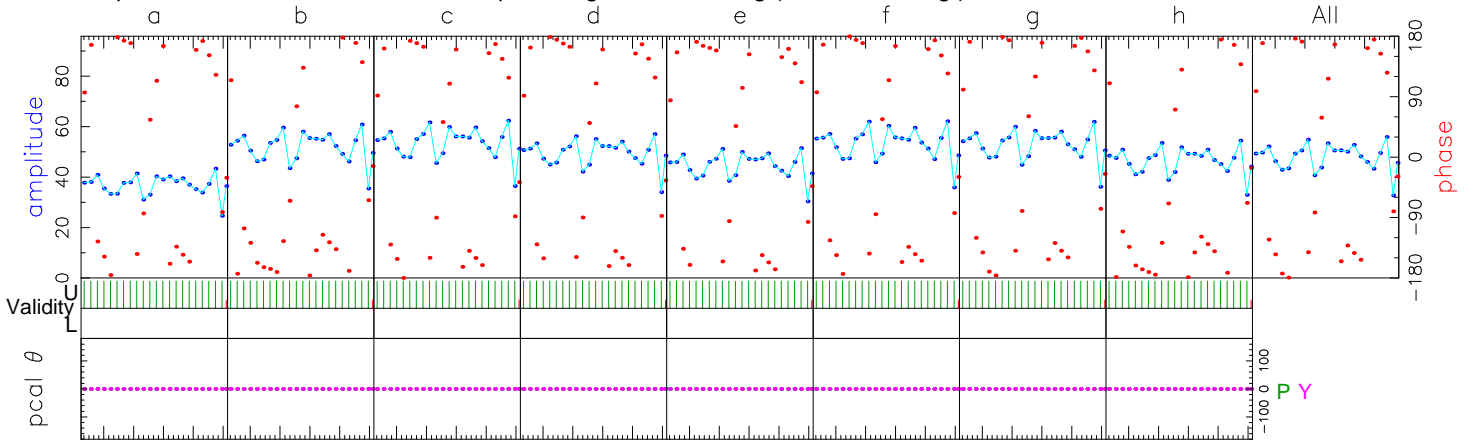
Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 6.5E-09  
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 5.1E-08  
 Phase delay (usec) 0.0000000000E+00 Apriori clockrate (us/s) 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 +/- 6.4E-14  
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

RMS Theor. Amplitude 9999.843 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.0 0.0 Search (2048X32) 9999.843 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000  
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.844 Data rate(Mb/s): 1024 nlags: 512 t\_cohere infinite ion window (TEC) 0.00 0.00



Fringe quality 5  
 SNR 1038.2  
 Int time 282.321  
 Amp 31.954  
 Phase -175.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.005890  
 MBD 0.005881  
 Fringe rate (Hz)  
 -0.007833  
 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  
 2019:176:085223  
 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

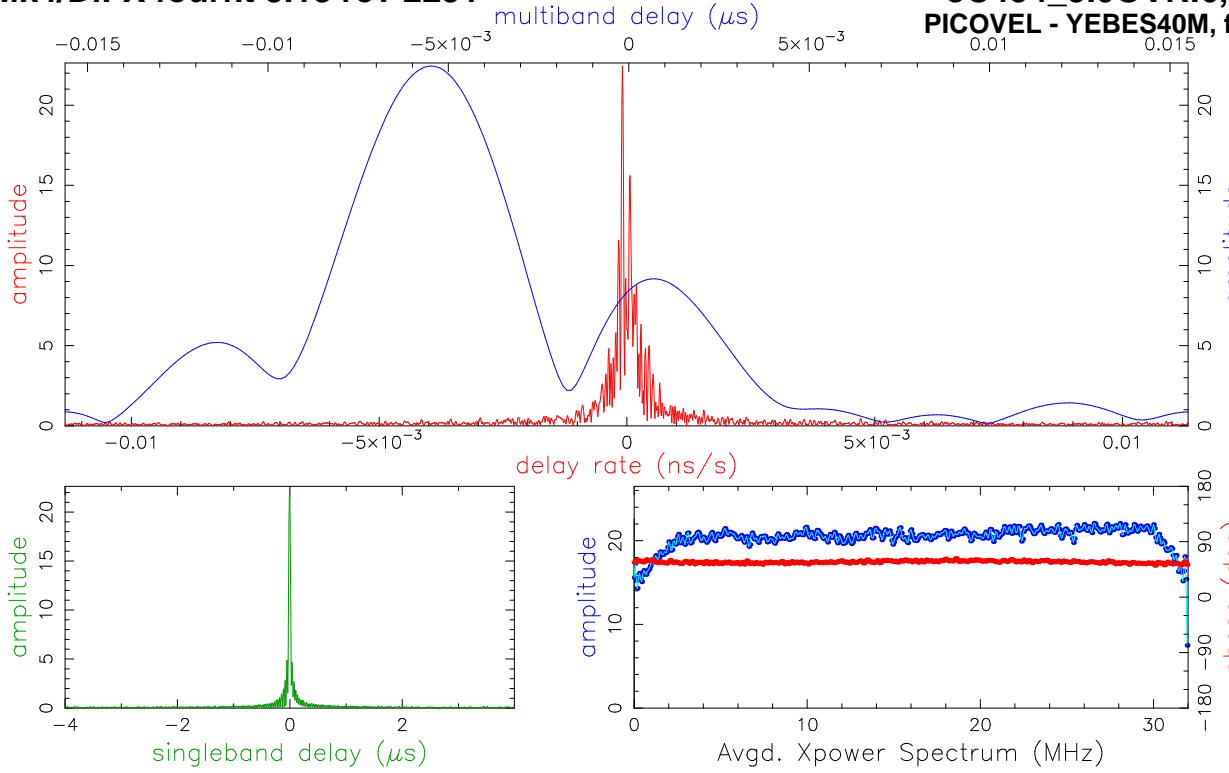


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-178.2	-159.4	176.8	177.1	170.3	-177.5	-172.8	-162.8	Phase	-175.6
	24.3	34.4	35.6	32.8	29.7	35.2	35.0	30.8	Ampl.	32.2
	514.2	513.7	513.8	513.6	513.7	513.8	513.8	514.0	Sbd box	513.8
U/L	558/0	558/0	558/0	558/0	558/0	558/0	558/0	558/0	APs used	
P	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	3.63553381117E+02	Apriori delay (usec)	3.63547500485E+02	Resid mbdelay (usec)	5.88063E-03	+/-	2.1E-06
Sband delay (usec)	3.63553389985E+02	Apriori clock (usec)	-7.0986900E+00	Resid sbdelay (usec)	5.88950E-03	+/-	1.7E-05
Phase delay (usec)	3.63547494821E+02	Apriori clockrate (us/s)	-4.9000002E-07	Resid phdelay (usec)	-5.66420E-06	+/-	3.6E-09
Delay rate (us/s)	-3.15635784537E-02	Apriori rate (us/s)	-3.15634875252E-02	Resid rate (us/s)	-9.09285E-08	+/-	2.2E-11
Total phase (deg)	73.4	Apriori accel (us/s/s)	-3.45006921952E-06	Resid phase (deg)	-175.6	+/-	0.1

ph/seg (deg)	54.6	RMS	54.6	Theor.	0.3	Amplitude	31.954 +/- 0.031	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	52.7		52.7		0.5	Search (2048X32)	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000
ph/frq (deg)	11.2		11.2		0.2	Interp.	47.986	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	11.3		11.3		0.3	Inc. seg. avg.	32.222	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016

P: az 249.4 el 49.9 pa 51.2 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) 183.682 -478.490 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//PY..0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007//PY.W.1.0OVR16

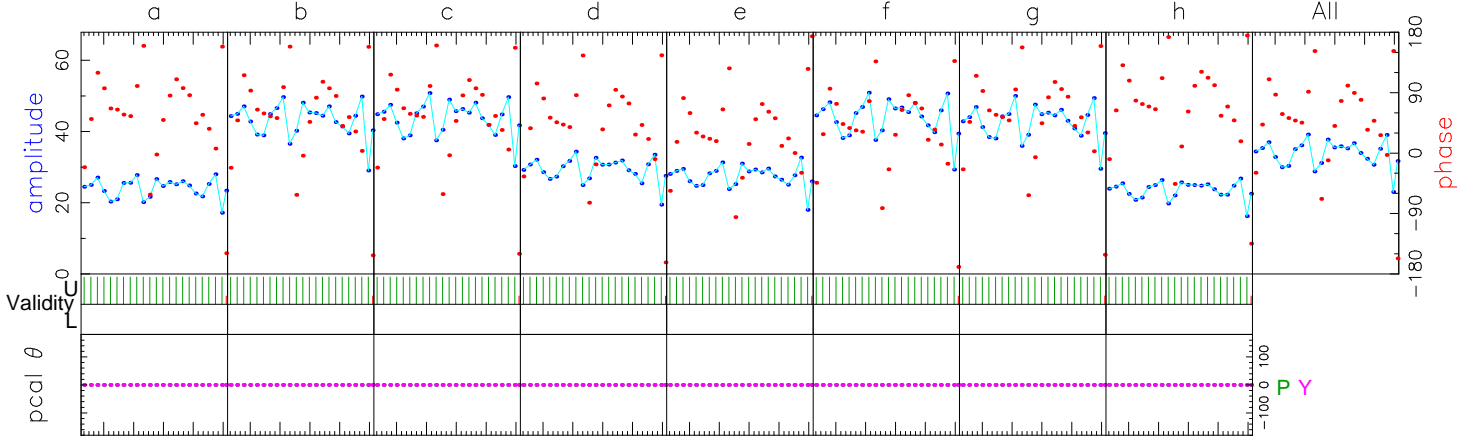


Fringe quality 3

SNR 735.3  
 Int time 282.321  
 Amp 22.631  
 Phase 56.8  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.005497  
 MBD -0.005417  
 Fringe rate (Hz)  
 -0.007835  
 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  
 2019:176:085231  
 2018:249:082454  
 RA & Dec (J2000)  
 22h53m57.7479s  
 +16°08'53.561"

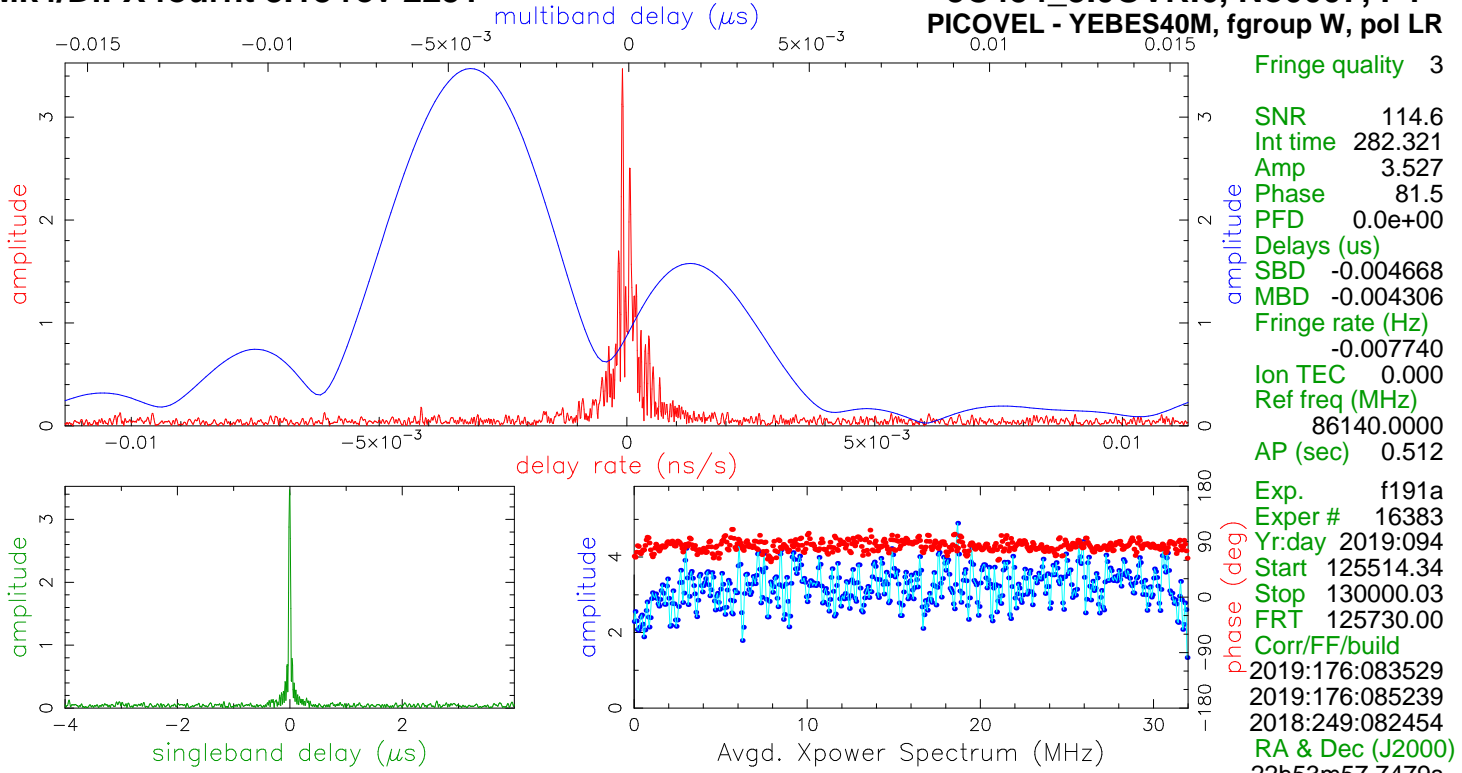
Amp. and Phase vs. time for each freq., 23 segs, 25 APs / seg (12.80 sec / seg.), time ticks 10 sec



86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
66.2	62.7	64.6	51.0	29.7	42.7	61.6	77.7	Phase	56.8
16.0	28.7	28.9	19.5	18.2	29.2	28.2	15.5	Ampl.	23.0
511.8	512.7	512.4	511.8	512.4	512.3	512.7	512.8	Sbd box	512.3
U/L 558/0	558/0	558/0	558/0	558/0	558/0	558/0	558/0	APs used	
P 0	0	0	0	0	0	0	0	PC freqs	
Y 0	0	0	0	0	0	0	0	PC freqs	
P:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
P 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y 1000	1000	1000	1000	1000	1000	1000	1000		
P 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)	3.63542083304E+02		Apriori delay (usec)	3.63547500485E+02		Resid mbdelay (usec)	-5.41718E-03	+/-	3.0E-06
Sband delay (usec)	3.63542003985E+02		Apriori clock (usec)	-7.0986900E+00		Resid sbdelay (usec)	-5.49650E-03	+/-	2.3E-05
Phase delay (usec)	3.63547502316E+02		Apriori clockrate (us/s)	-4.9000002E-07		Resid phdelay (usec)	1.83171E-06	+/-	5.0E-09
Delay rate (us/s)	-3.15635784785E-02		Apriori rate (us/s)	-3.15634875252E-02		Resid rate (us/s)	-9.09533E-08	+/-	3.0E-11
Total phase (deg)		305.8	Apriori accel (us/s/s)	-3.45006921952E-06		Resid phase (deg)	56.8	+/-	0.2

RMS Theor. Amplitude 22.631 +/- 0.031  
 ph/seg (deg) 54.6 0.4 Search (2048X32) 21.993  
 amp/seg (%) 52.2 0.7 Interp. 0.000  
 ph/frq (deg) 16.4 0.2 Inc. seg. avg. 33.865  
 amp/frq (%) 25.9 0.4 Inc. frq. avg. 23.026

PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000  
 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011  
 Data rate(Mb/s): 1024 nlags: 512 t\_cohere infinite ion window (TEC) 0.00 0.00

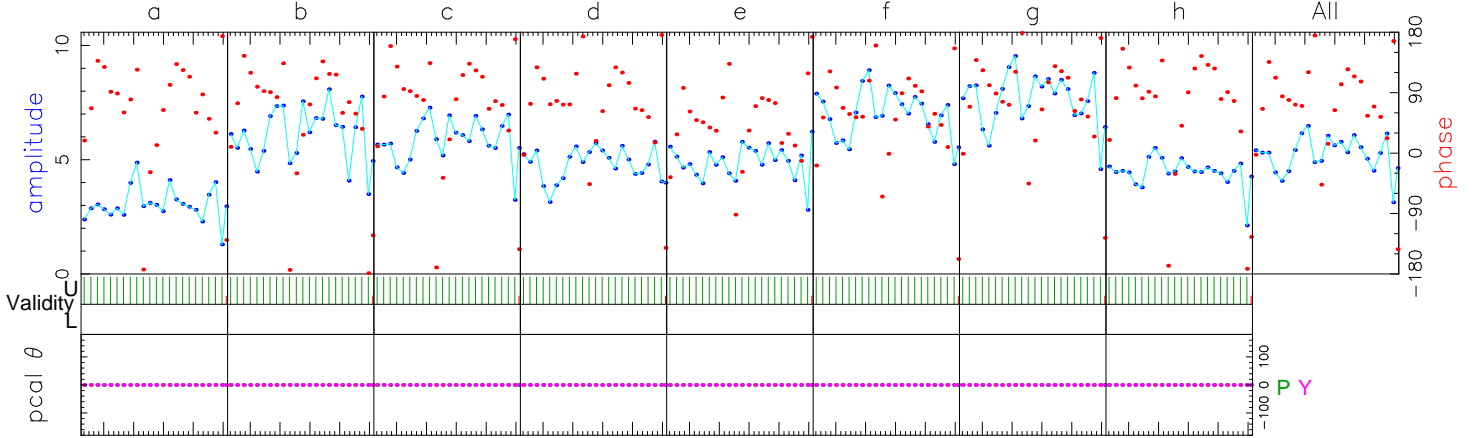


Fringe quality 3

SNR 114.6  
Int time 282.321  
Amp 3.527  
Phase 81.5  
PFD 0.0e+00  
Delays (us)  
SBD -0.004668  
MBD -0.004306  
Fringe rate (Hz)  
-0.007740  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

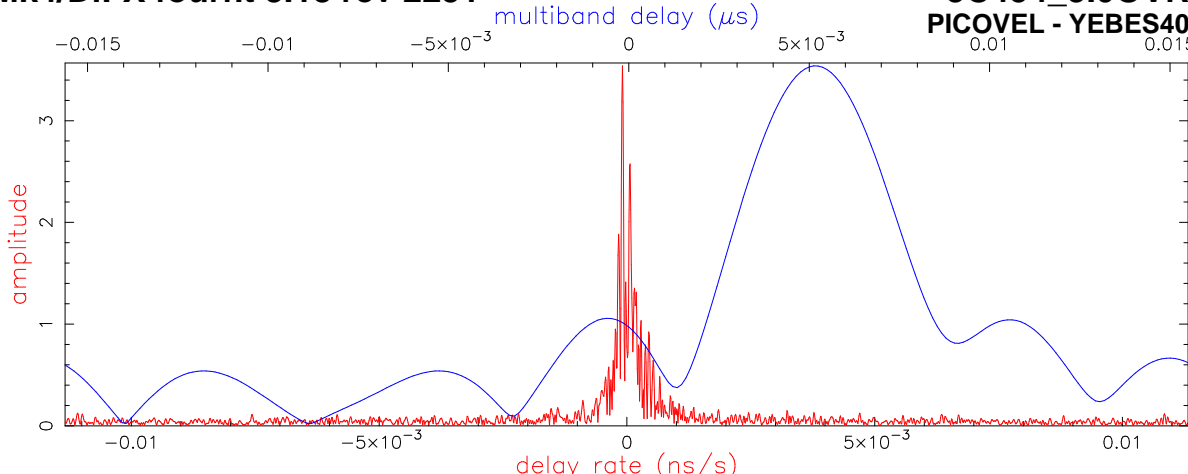
Exp. f191a  
Exper # 16383  
Yr:day 2019:094  
Start 125514.34  
Stop 130000.03  
FRT 125730.00  
Corr/FF/build  
2019:176:083529  
2019:176:085239  
2018:249:082454  
RA & Dec (J2000)  
22h53m57.7479s  
+16°08'53.561"

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
	87.5	91.1	94.1	81.5	44.4	67.0	86.8	99.6	Phase	81.5
	2.0	4.1	3.9	3.1	3.3	4.5	5.0	3.0	Ampl.	3.6
	512.6	512.7	512.6	511.8	512.5	512.7	512.9	512.8	Sbd box	512.4
U/L	558/0	558/0	558/0	558/0	558/0	558/0	558/0	558/0	APs used	
P	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
P	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)	3.63543194679E+02		Apriori delay (usec)		3.63547500485E+02		Resid mbdelay (usec)		-4.30581E-03	+/- 1.9E-05
Sband delay (usec)	3.63542832985E+02		Apriori clock (usec)		-7.0986900E+00		Resid sbdelay (usec)		-4.66750E-03	+/- 1.5E-04
Phase delay (usec)	3.63547503114E+02		Apriori clockrate (us/s)		-4.9000002E-07		Resid phdelay (usec)		2.62922E-06	+/- 3.2E-08
Delay rate (us/s)	-3.15635773738E-02		Apriori rate (us/s)		-3.15634875252E-02		Resid rate (us/s)		-8.98486E-08	+/- 2.0E-10
Total phase (deg)	330.6		Apriori accel (us/s/s)		-3.45006921952E-06		Resid phase (deg)		81.5	+/- 1.0

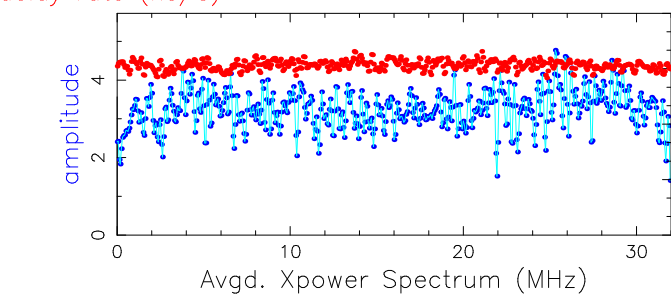
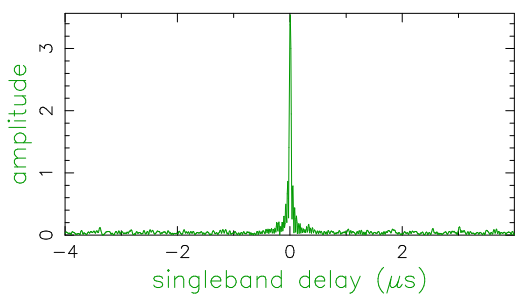
ph/seg (deg) 54.0 2.4 Search (2048X32) 3.393 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 53.2 4.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000  
 ph/frq (deg) 19.3 1.4 Inc. seg. avg. 5.237 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 amp/frq (%) 25.8 2.5 Inc. frq. avg. 3.612 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 512 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 P: az 249.4 el 49.9 pa 51.2 Y: az 246.0 el 48.3 pa 46.5 u,v (fr/asec) 183.682 -478.490 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//PY..0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007//PY.W.43.0OVR16



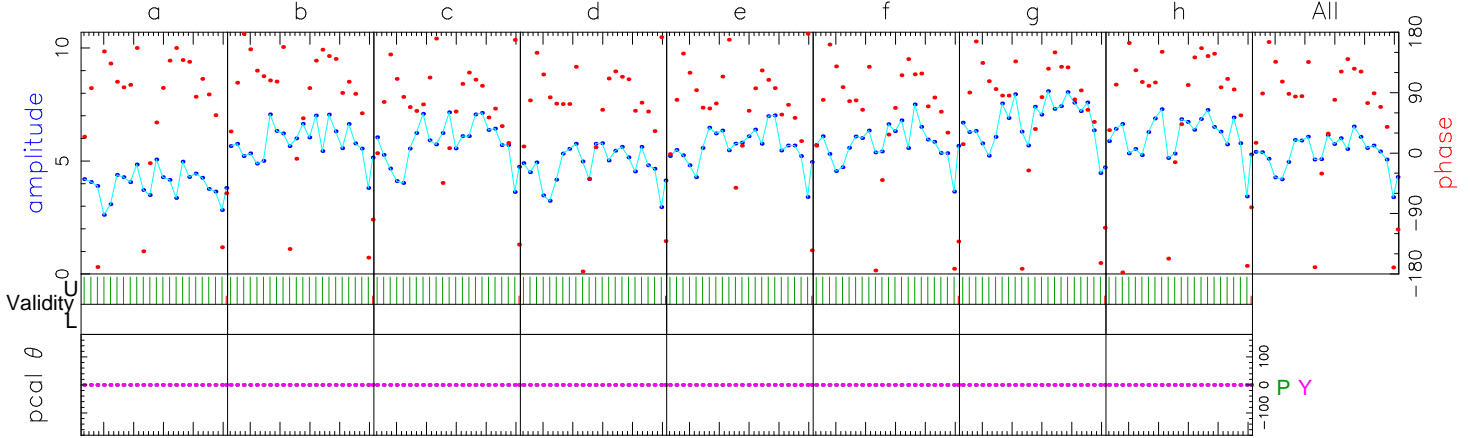
Fringe quality 4

SNR 115.9  
Int time 282.321  
Amp 3.567  
Phase 98.6  
PFD 0.0e+00  
Delays (us)  
SBD 0.005621  
MBD 0.005120  
Fringe rate (Hz)  
-0.007741  
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  
2019:176:085246  
2018:249:082454  
RA & Dec (J2000)  
22h53m57.7479s  
+16°08'53.561"

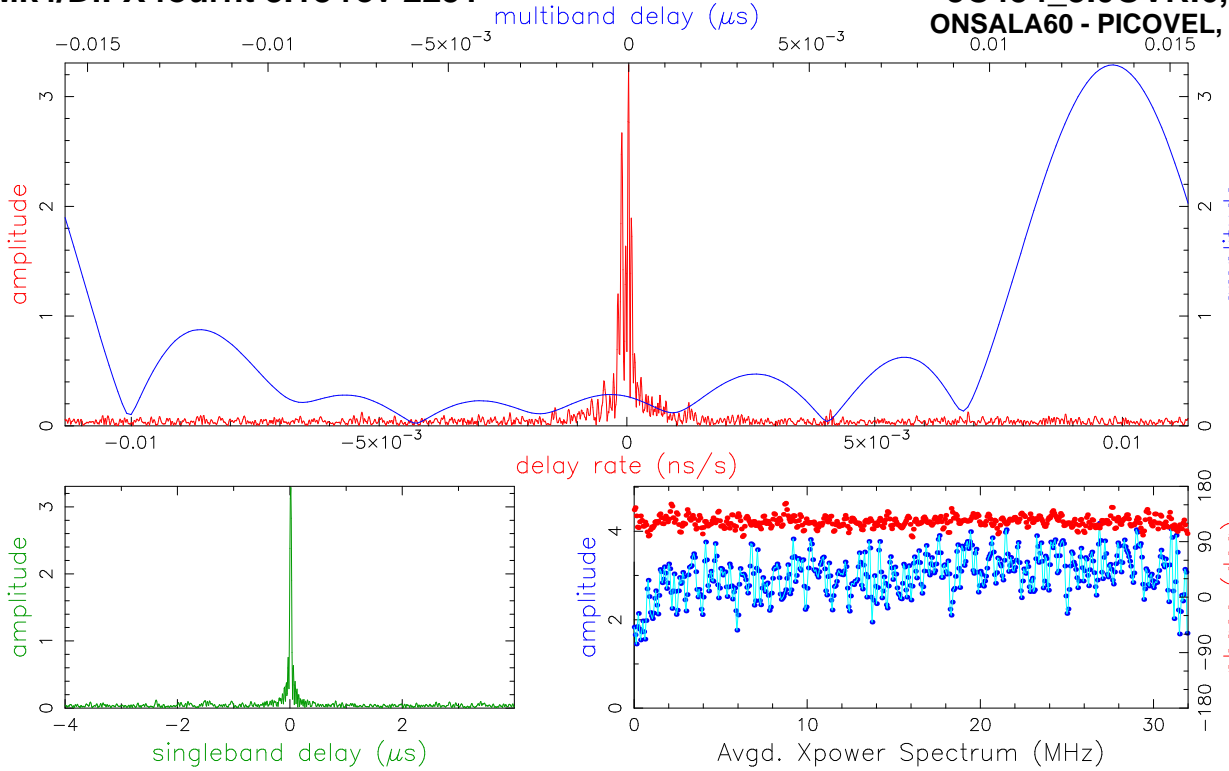


Amp. and Phase vs. time for each freq., 23 segs, 25 APs / seg (12.80 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All	
	113.5	117.3	76.7	86.1	82.3	91.6	102.4	118.7	Phase	98.6	
	2.5	3.9	3.8	3.2	3.7	3.7	4.5	4.1	Ampl.	3.7	
	513.5	513.5	513.5	513.9	513.3	513.9	513.7	514.1	Sbd box	513.7	
U/L	558/0	558/0	558/0	558/0	558/0	558/0	558/0	558/0	APs used		
P	0	0	0	0	0	0	0	0	PC freqs		
Y	0	0	0	0	0	0	0	0	PC freqs		
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC		
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
Y	1000	1000	1000	1000	1000	1000	1000	1000			
P	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)	3.63552620679E+02		Apriori delay (usec)		3.63547500485E+02		Resid mbdelay (usec)		5.12019E-03	+/- 1.9E-05	
Sband delay (usec)	3.63553121985E+02		Apriori clock (usec)		-7.0986900E+00		Resid sbdelay (usec)		5.62150E-03	+/- 1.5E-04	
Phase delay (usec)	3.63547503663E+02		Apriori clockrate (us/s)		-4.9000002E-07		Resid phdelay (usec)		3.17835E-06	+/- 3.2E-08	
Delay rate (us/s)	-3.15635773908E-02		Apriori rate (us/s)		-3.15634875252E-02		Resid rate (us/s)		-8.98657E-08	+/- 1.9E-10	
Total phase (deg)	347.6		Apriori accel (us/s/s)		-3.45006921952E-06		Resid phase (deg)		98.6	+/- 1.0	
RMS	Theor.	Amplitude	3.567 +/- 0.031		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
ph/seg (deg)	55.4	2.4	Search (2048X32)	3.499	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-4.000	4.000	
amp/seg (%)	54.6	4.1	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		-0.016	0.016	
ph/frq (deg)	18.0	1.4	Inc. seg. avg.	5.371	Sample rate(MSamp/s): 64		dr window (ns/s)		-0.011	0.011	
amp/frq (%)	16.2	2.4	Inc. frq. avg.	3.672	Data rate(Mb/s): 1024		nlags: 512 t_cohere infinite		0.00	0.00	
P: az 249.4 el 49.9 pa 51.2			Y: az 246.0 el 48.3 pa 46.5			u,v (fr/asec) 183.682 -478.490			simultaneous interpolator		



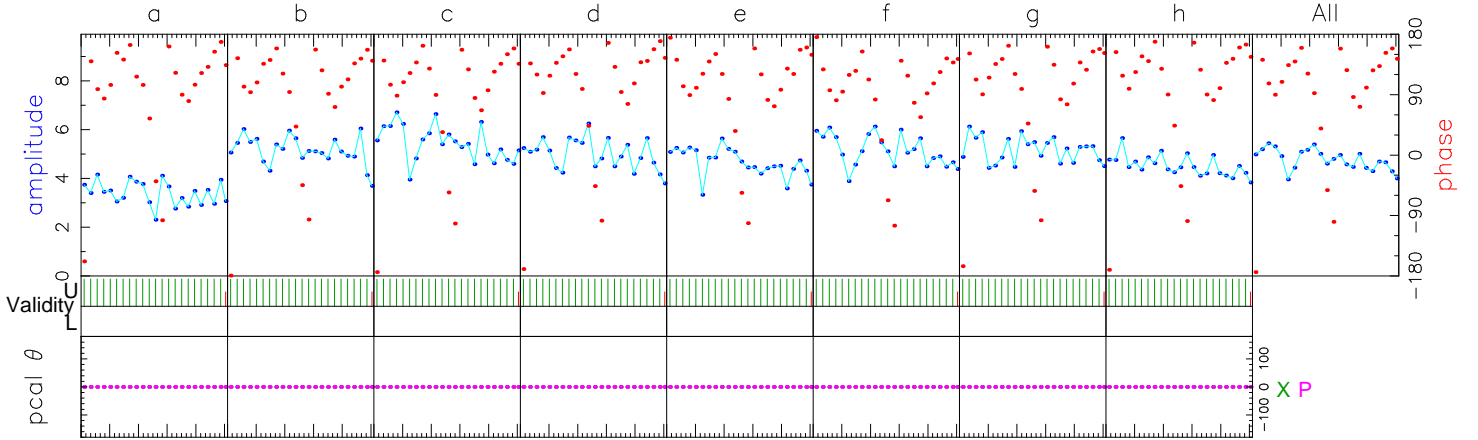


Fringe quality 5

SNR 110.1  
 Int time 296.646  
 Amp 3.306  
 Phase 124.4  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.013765  
 MBD 0.013371  
 Fringe rate (Hz) 0.003064  
 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"

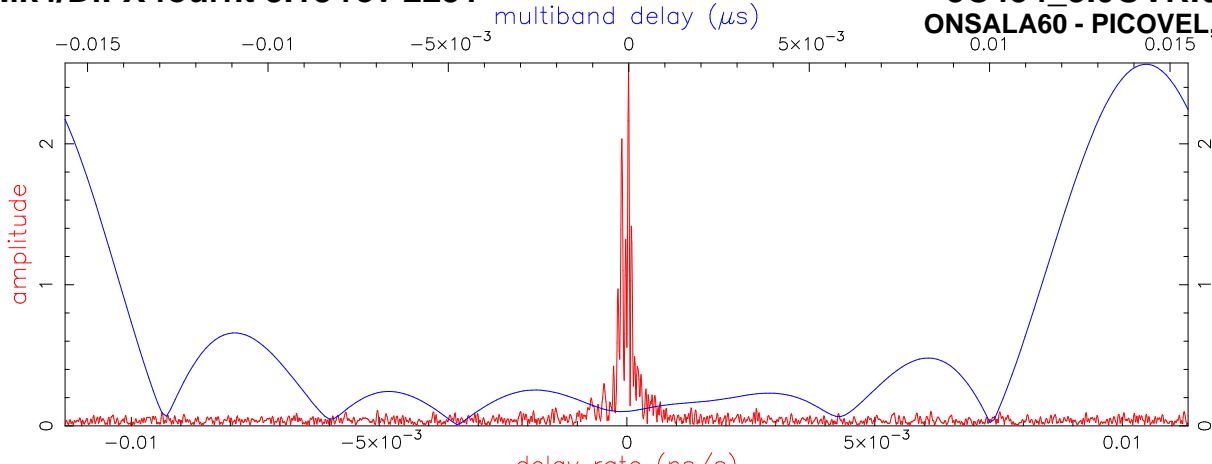
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	128.3	122.1	122.5	129.2	120.8	112.3	129.2	133.2	Phase	124.4
	2.4	3.6	3.6	3.5	3.2	3.5	3.5	3.1	Ampl.	3.3
	514.1	514.9	514.7	515.0	514.6	514.7	515.0	514.5	Sbd box	514.8
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
X	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)	-4.78517493735E+03		Apriori delay (usec)		-4.78518830789E+03		Resid mbdelay (usec)		1.33705E-02	+/- 2.0E-05
Sband delay (usec)	-4.78517454289E+03		Apriori clock (usec)		2.5145716E+01		Resid sbdelay (usec)		1.37650E-02	+/- 1.6E-04
Phase delay (usec)	-4.78518830388E+03		Apriori clockrate (us/s)		1.0770000E-06		Resid phdelay (usec)		4.01240E-06	+/- 3.4E-08
Delay rate (us/s)	1.02212216132E-01		Apriori rate (us/s)		1.02212180568E-01		Resid rate (us/s)		3.55646E-08	+/- 1.9E-10
Total phase (deg)			Apriori accel (us/s/s)		3.31456296864E-05		Resid phase (deg)		124.4	+/- 1.0

RMS Theor. Amplitude 3.306 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 57.1 2.5 Search (2048X32) 3.240 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000  
 amp/seg (%) 46.5 4.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 7.2 1.5 Inc. seg. avg. 4.785 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 (%) 12.3 2.6 Inc. frq. avg. 3.306 Data rate(Mb/s): 1024 nlags: 512 t\_cohere infinite ion window (TEC) 0.00 0.00

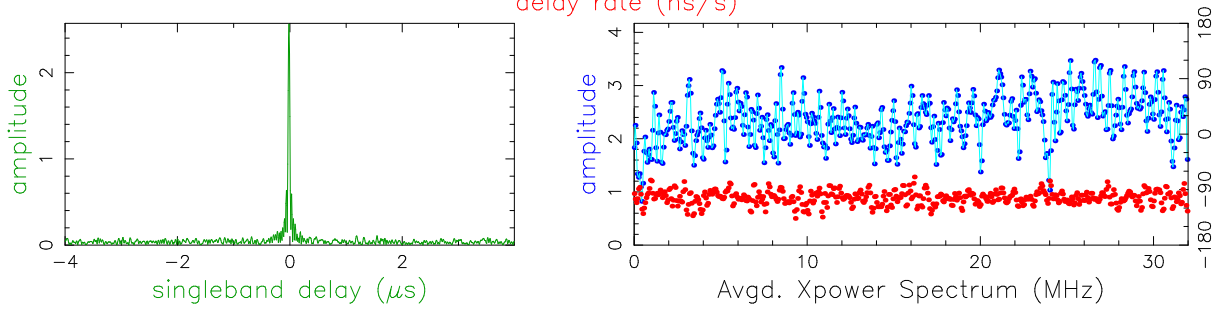
X: az 247.6 el 32.5 pa 31.4 P: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -566.705 2800.708 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//XP..0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007//XP.W.12.0OVR16



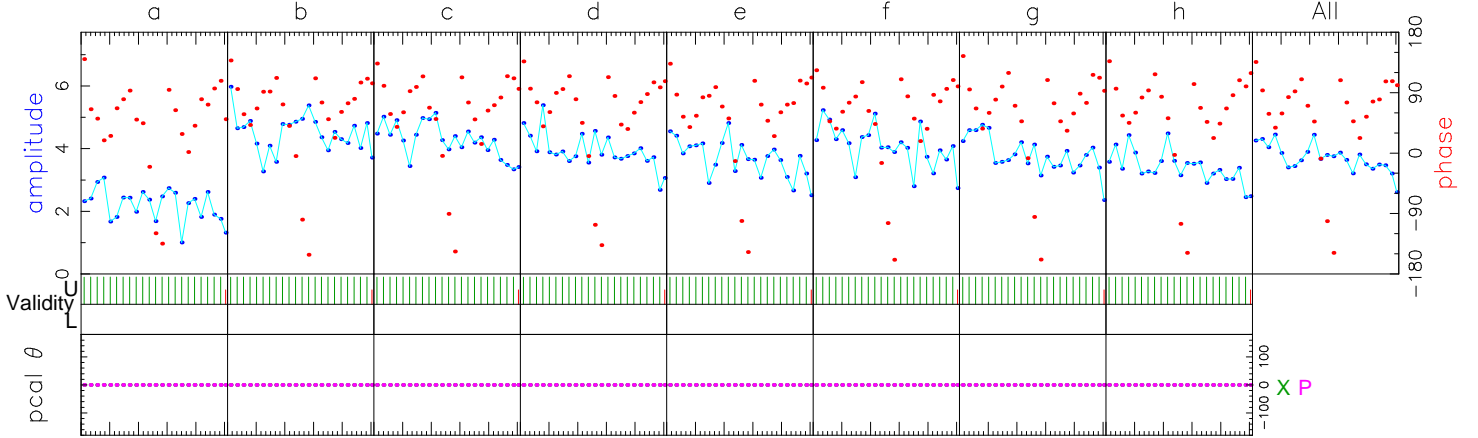
Fringe quality 5

SNR 85.7  
 Int time 296.646  
 Amp 2.573  
 Phase 75.9  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.017083  
 MBD 0.014293  
 Fringe rate (Hz) 0.003067  
 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"



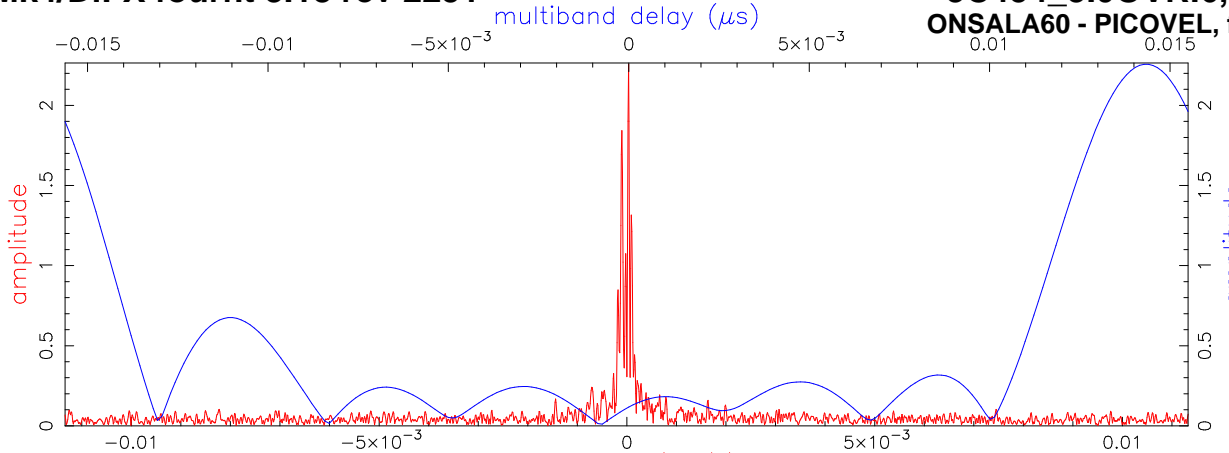
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



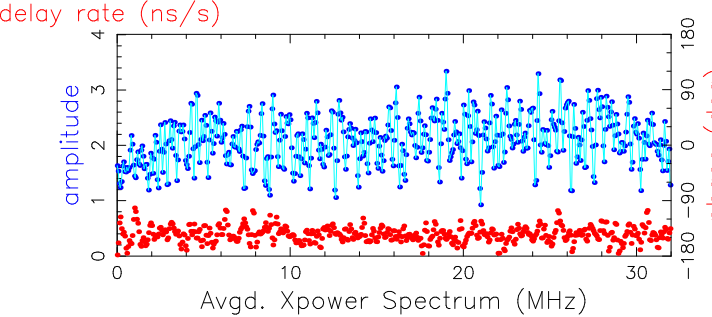
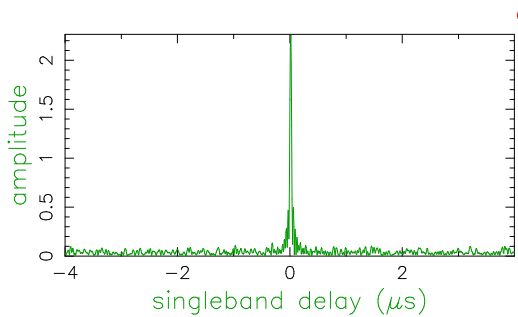
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	61.1	79.2	77.4	80.4	74.0	72.9	78.6	76.1	Phase	75.9
	1.5	3.0	2.9	2.7	2.6	2.8	2.7	2.4	Ampl.	2.6
	513.0	510.9	510.9	510.9	510.9	510.6	510.9	510.5	Sbd box	510.8
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.78520526454E+03		Apriori delay (usec)		-4.78518830789E+03		Resid mbdelay (usec)		1.42933E-02	+/- 2.5E-05
Sband delay (usec)	-4.78520539089E+03		Apriori clock (usec)		2.5145716E+01		Resid sbdelay (usec)		-1.70830E-02	+/- 2.0E-04
Phase delay (usec)	-4.78518830544E+03		Apriori clockrate (us/s)		1.0770000E-06		Resid phdelay (usec)		2.44661E-06	+/- 4.3E-08
Delay rate (us/s)	1.02212216178E-01		Apriori rate (us/s)		1.02212180568E-01		Resid rate (us/s)		3.56100E-08	+/- 2.5E-10
Total phase (deg)	-227.0		Apriori accel (us/s/s)		3.31456296864E-05		Resid phase (deg)		75.9	+/- 1.3

RMS Theor. Amplitude 2.573 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 56.8 3.2 Search (2048X32) 2.518 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000  
 amp/seg (%) 47.4 5.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 6.7 1.9 Inc. seg. avg. 3.719 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 (%) 17.7 3.3 Inc. frq. avg. 2.571 Data rate(Mb/s): 1024 nlags: 512 t\_cohere infinite ion window (TEC) 0.00 0.00

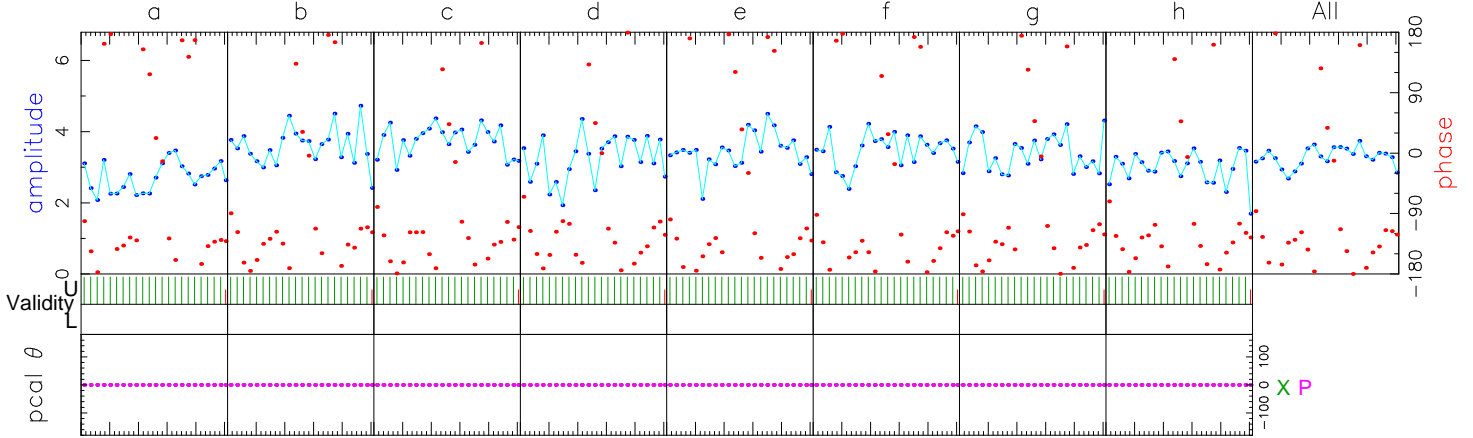
X: az 247.6 el 32.5 pa 31.4 P: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -566.705 2800.708 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//XP..00VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//XP.W.34.00VRI6



Fringe quality 5  
 SNR 75.4  
 Int time 296.646  
 Amp 2.265  
 Phase -145.7  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.014170  
 MBD 0.014310  
 Fringe rate (Hz) 0.002990  
 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"

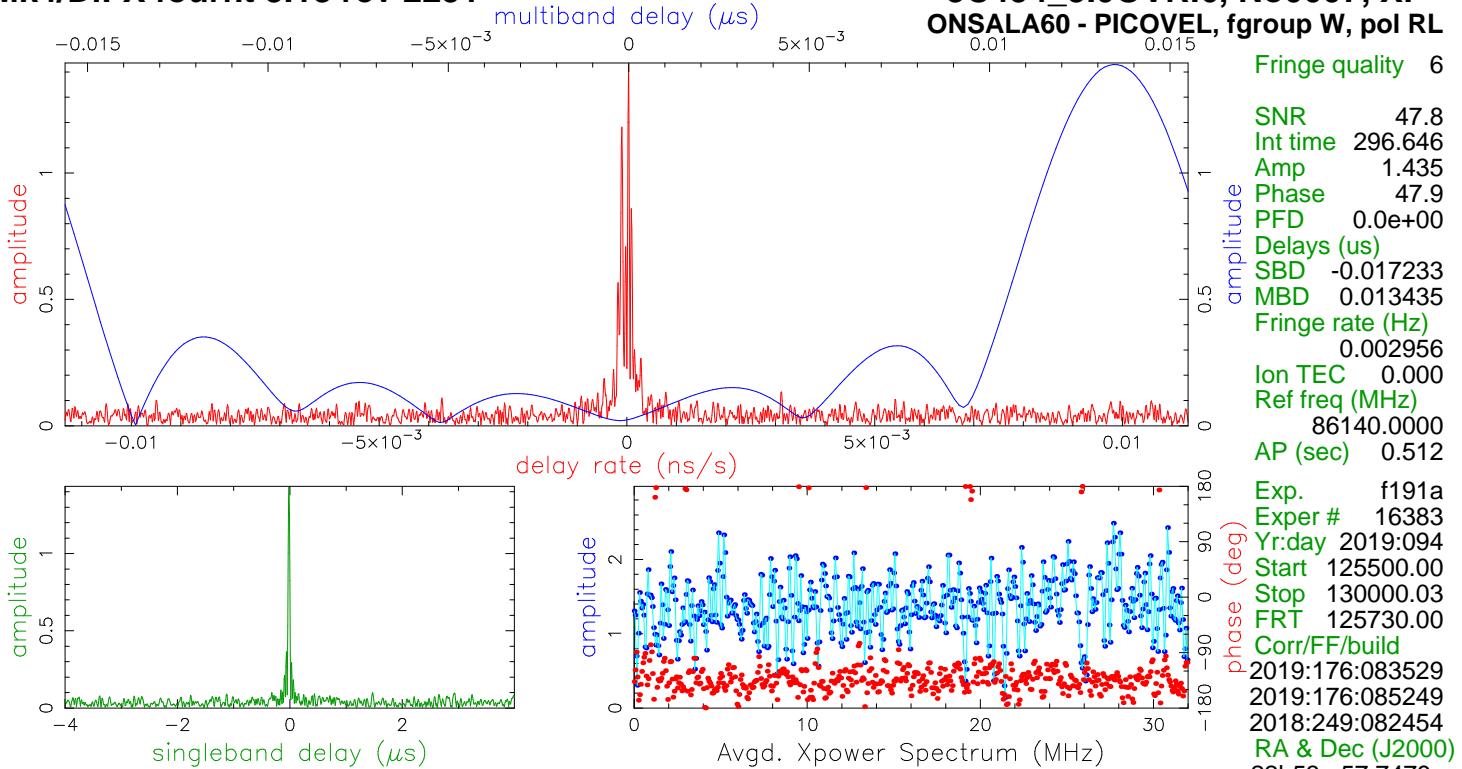


Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

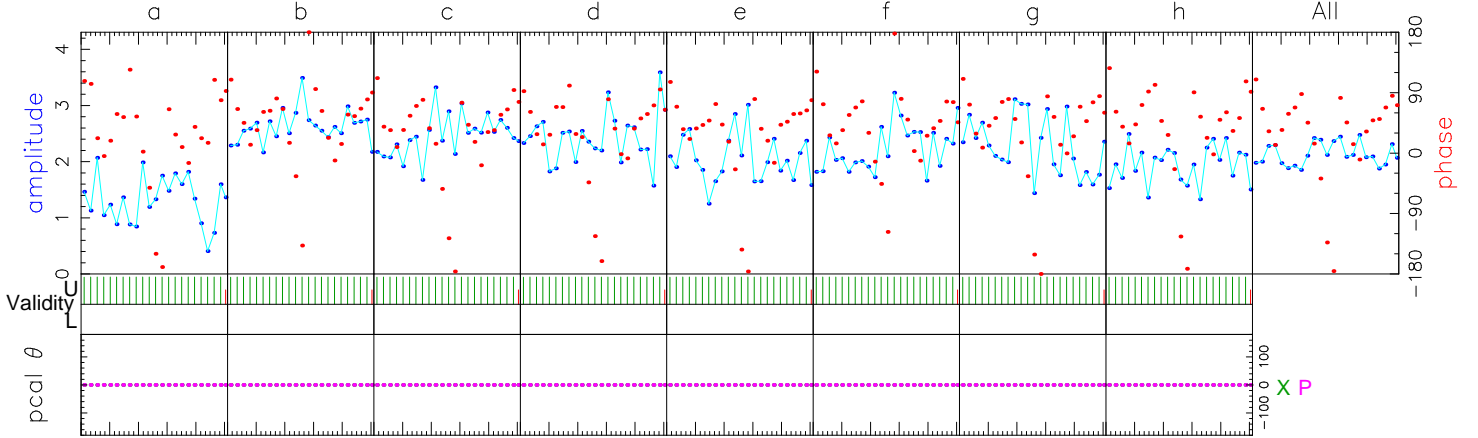


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-155.9	-143.3	-139.5	-137.8	-153.1	-154.0	-146.0	-138.2	Phase	-145.7
	1.8	2.5	2.6	2.2	2.4	2.3	2.3	2.1	Ampl.	2.3
	514.8	515.0	514.8	515.0	514.9	514.9	515.1	514.4	Sbd box	514.8
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
X	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)	-4.78517399760E+03		Apriori delay (usec)		-4.78518830789E+03		Resid mbdelay (usec)		1.43103E-02	+/- 2.9E-05
Sband delay (usec)	-4.78517413789E+03		Apriori clock (usec)		2.5145716E+01		Resid sbdelay (usec)		1.41700E-02	+/- 2.3E-04
Phase delay (usec)	-4.78518831259E+03		Apriori clockrate (us/s)		1.0770000E-06		Resid phdelay (usec)		-4.69984E-06	+/- 4.9E-08
Delay rate (us/s)	1.02212215284E-01		Apriori rate (us/s)		1.02212180568E-01		Resid rate (us/s)		3.47158E-08	+/- 2.8E-10
Total phase (deg)			Apriori accel (us/s/s)		3.31456296864E-05		Resid phase (deg)		-145.7	+/- 1.5

RMS Theor. Amplitude 2.265 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 57.0 3.6 Search (2048X32) 2.227 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000  
 amp/seg (%) 46.9 6.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 8.1 2.1 Inc. seg. avg. 3.288 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 (%) 9.9 3.8 Inc. frq. avg. 2.271 Data rate(Mb/s): 1024 nlags: 512 t\_cohere infinite ion window (TEC) 0.00 0.00

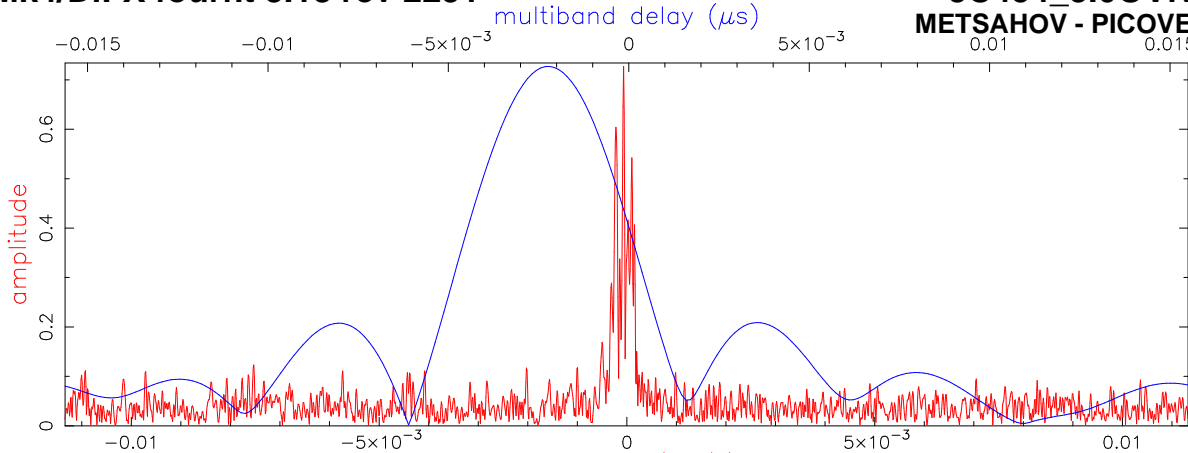


Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

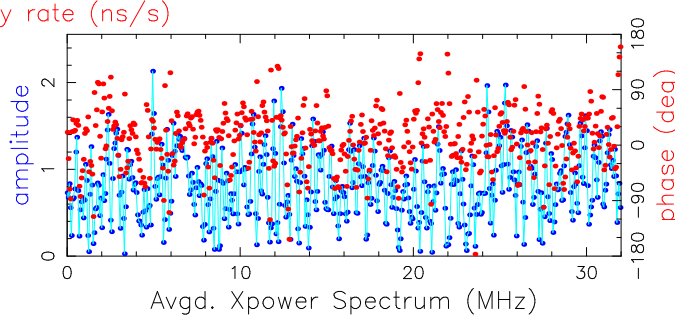
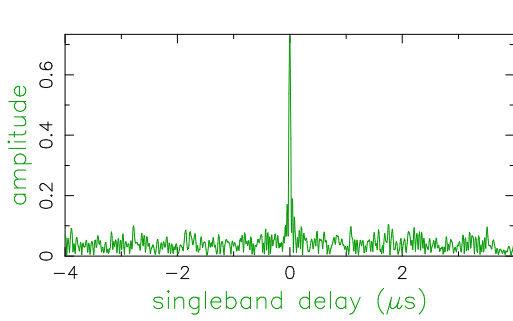


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	42.1	53.6	44.0	48.7	44.7	44.1	49.5	53.4	Phase	47.9
	0.7	1.7	1.6	1.6	1.4	1.4	1.6	1.3	Ampl.	1.4
	511.5	510.8	510.9	511.1	511.1	510.4	510.7	510.7	Sbd box	510.8
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
X	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)	-4.78520612266E+03		Apriori delay (usec)		-4.78518830789E+03		Resid mbdelay (usec)		1.34352E-02	+/- 4.5E-05
Sband delay (usec)	-4.78520554039E+03		Apriori clock (usec)		2.5145716E+01		Resid sbdelay (usec)		-1.72325E-02	+/- 3.6E-04
Phase delay (usec)	-4.78518830634E+03		Apriori clockrate (us/s)		1.0770000E-06		Resid phdelay (usec)		1.54581E-06	+/- 7.7E-08
Delay rate (us/s)	1.02212214883E-01		Apriori rate (us/s)		1.02212180568E-01		Resid rate (us/s)		3.43147E-08	+/- 4.5E-10
Total phase (deg)			Apriori accel (us/s/s)		3.31456296864E-05		Resid phase (deg)		47.9	+/- 2.4

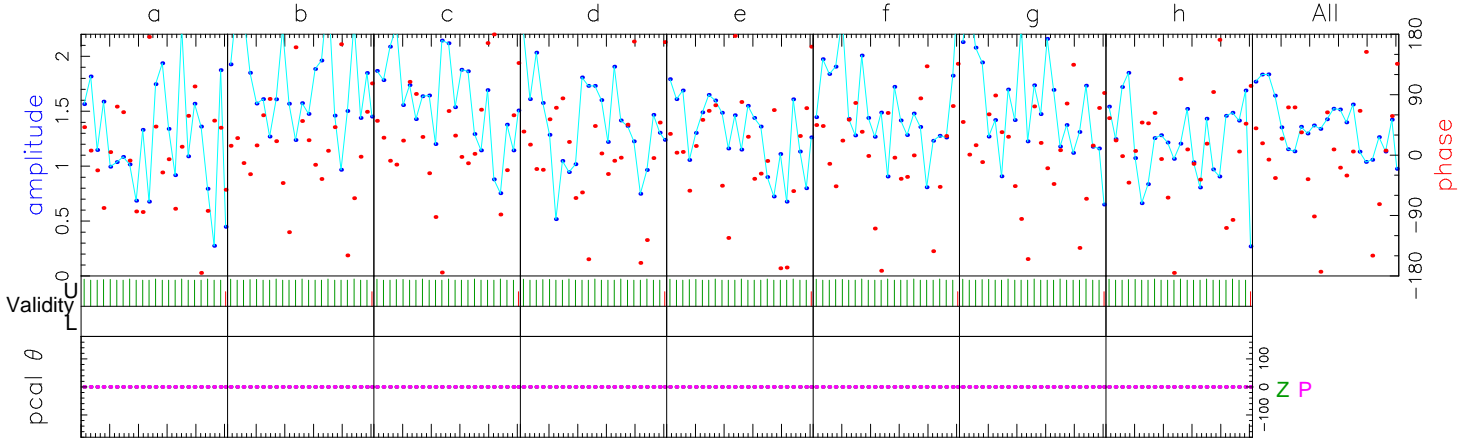
RMS Theor. Amplitude 1.435 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 57.8 5.7 Search (2048X32) 1.421 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000  
 amp/seg (%) 50.7 10.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 4.8 3.4 Inc. seg. avg. 2.126 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 (%) 20.2 5.9 Inc. frq. avg. 1.430 Data rate(Mb/s): 1024 nlags: 512 t\_cohere infinite ion window (TEC) 0.00 0.00  
 X: az 247.6 el 32.5 pa 31.4 P: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -566.705 2800.708 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//XP..0OVRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//XP.W.77.0OVRI6



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

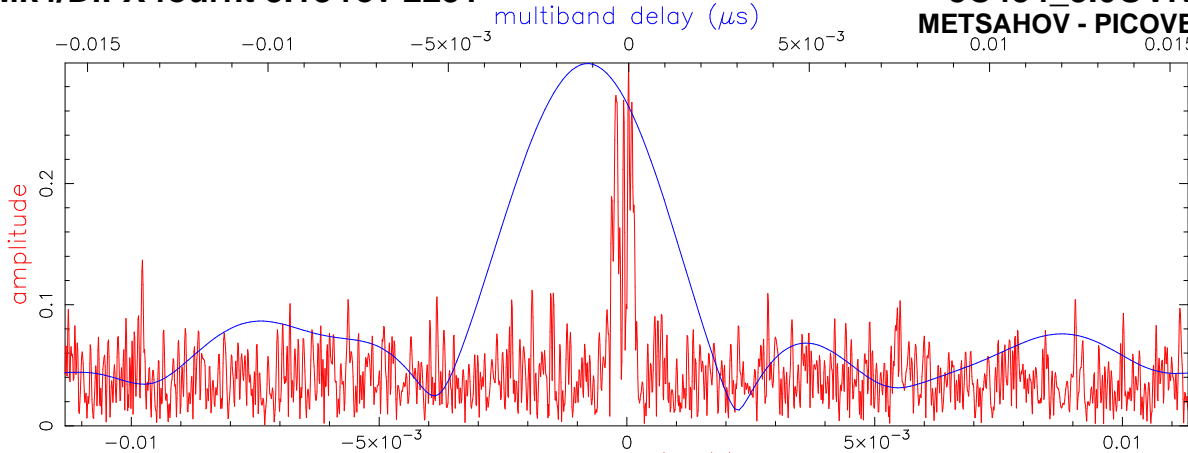


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	7.2	6.3	26.7	6.0	16.2	21.4	11.8	9.8	Phase	13.0
	0.6	1.0	0.8	0.7	0.6	0.8	0.8	0.6	Ampl.	0.7
	513.6	512.7	512.7	512.8	512.3	512.4	512.7	512.2	Sbd box	512.7
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
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	
									Chan ids	
									Tracks	

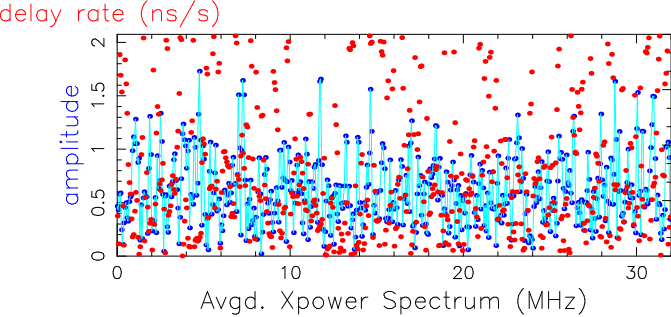
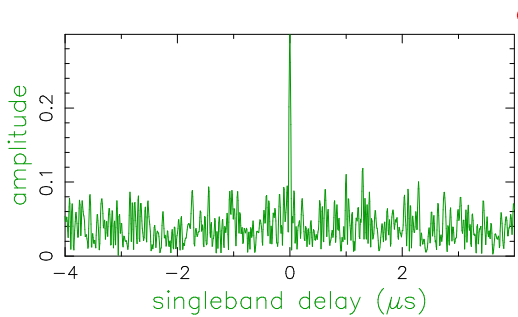
Group delay (usec)(sbd)	-7.08904838792E+03	Apriori delay (usec)	-7.08904610347E+03	Resid mbdelay (usec)	-2.28445E-03	+/-	9.0E-05
Sband delay (usec)	-7.08904851297E+03	Apriori clock (usec)	2.2392273E-01	Resid sbdelay (usec)	-2.40950E-03	+/-	7.1E-04
Phase delay (usec)	-7.08904610305E+03	Apriori clockrate (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	RMS	11.4	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	Apriori accel (us/s/s)	0.728	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	Bits/sample:	2x2	Search (2048X32)	0.720	SampCntNorm:	enabled	mb window (us)	-0.016 0.016
amp/frq (%)	16.9	Inc. frq. avg.	0.728	Sample rate(MSamp/s):	64	Inc. seg. avg.	1.353	ion window (TEC)	0.00 0.00	dr window (ns/s)	-0.011 0.011
				Data rate(Mb/s):	1024	Inc. frq. avg.	0.728			nlags:	512 t_cohere infinite

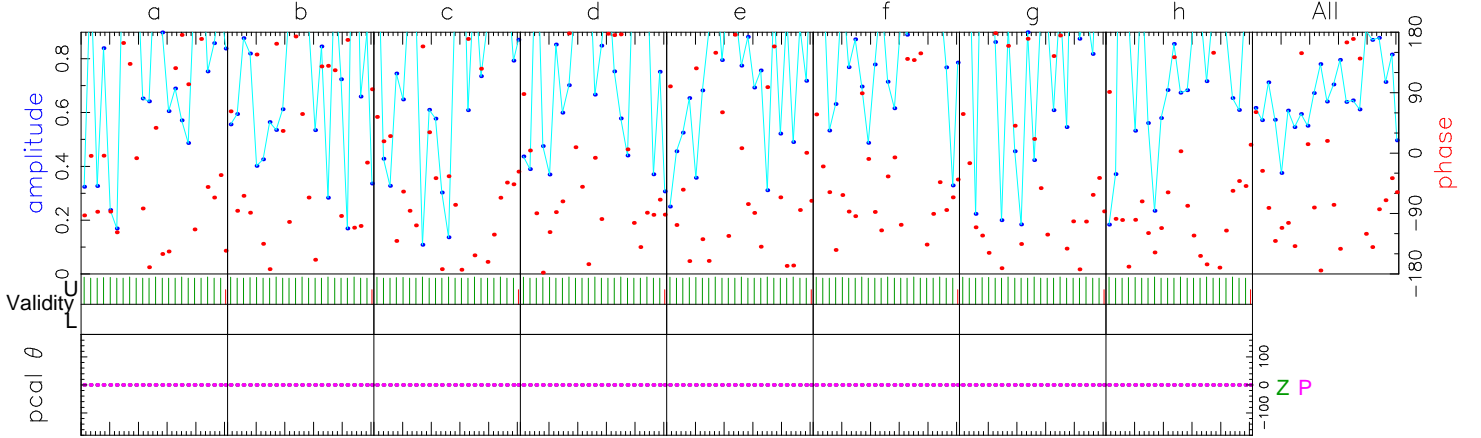
Z: az 257.8 el 25.5 pa 30.4 P: az 249.4 el 49.9 pa 51.2 u,v (fr/asec) -397.217 3313.526 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps2/f191a/FRINGE/5555/No0007//ZP..00VRI6 Output file: /Exps2/f191a/FRINGE/5555/No0007//ZP.W.26.00VRI6



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"

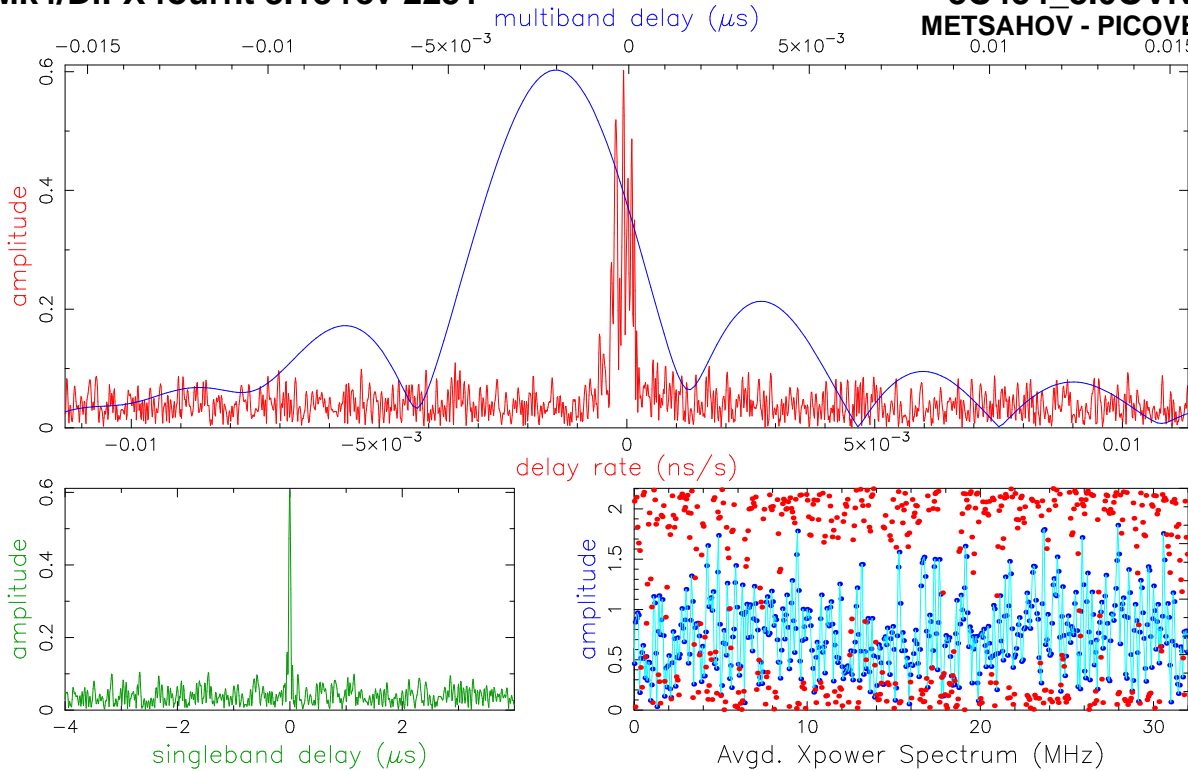


Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



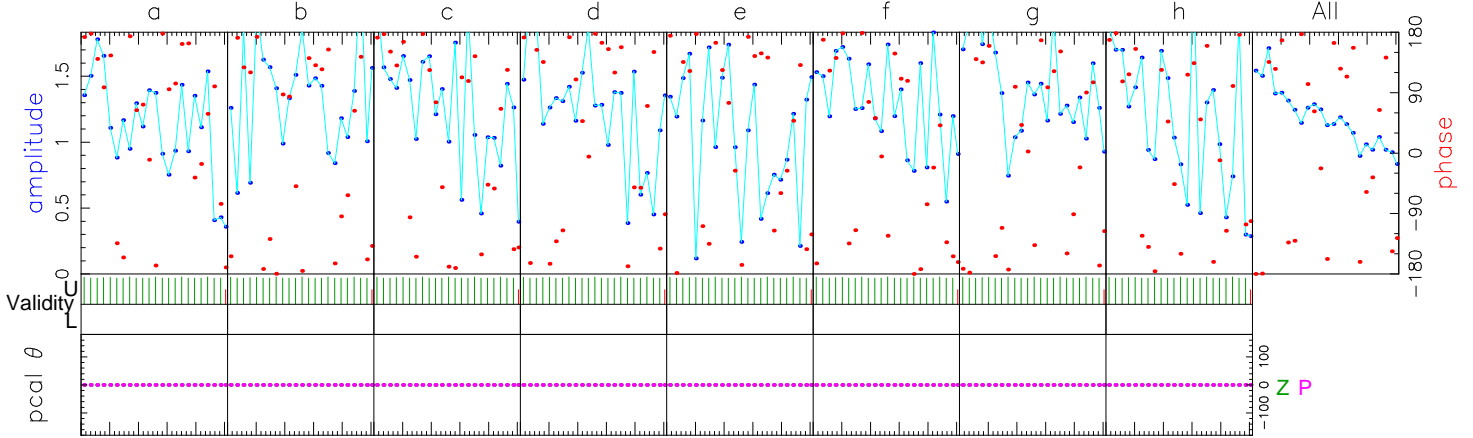
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	-111.7	-128.6	-97.5	-105.7	-137.7	-81.5	-121.0	-110.9	Phase	-110.5
	0.1	0.2	0.3	0.4	0.3	0.4	0.4	0.5	Ampl.	0.3
	760.3	459.4	401.1	513.2	514.1	512.9	512.5	512.7	Sbd box	512.9
U/L	586/0	586/0	586/0	586/0	586/0	586/0	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	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-7.08904725913E+03		Apriori delay (usec)		-7.08904610347E+03		Resid mbdelay (usec)		-1.1556E-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

RMS Theor. Amplitude 0.300 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 74.2 27.9 Search (2048X32) 0.296 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000  
 amp/seg (%) 130.4 48.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 19.2 16.5 Inc. seg. avg. 0.598 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 (%) 33.1 28.7 Inc. frq. avg. 0.299 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.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

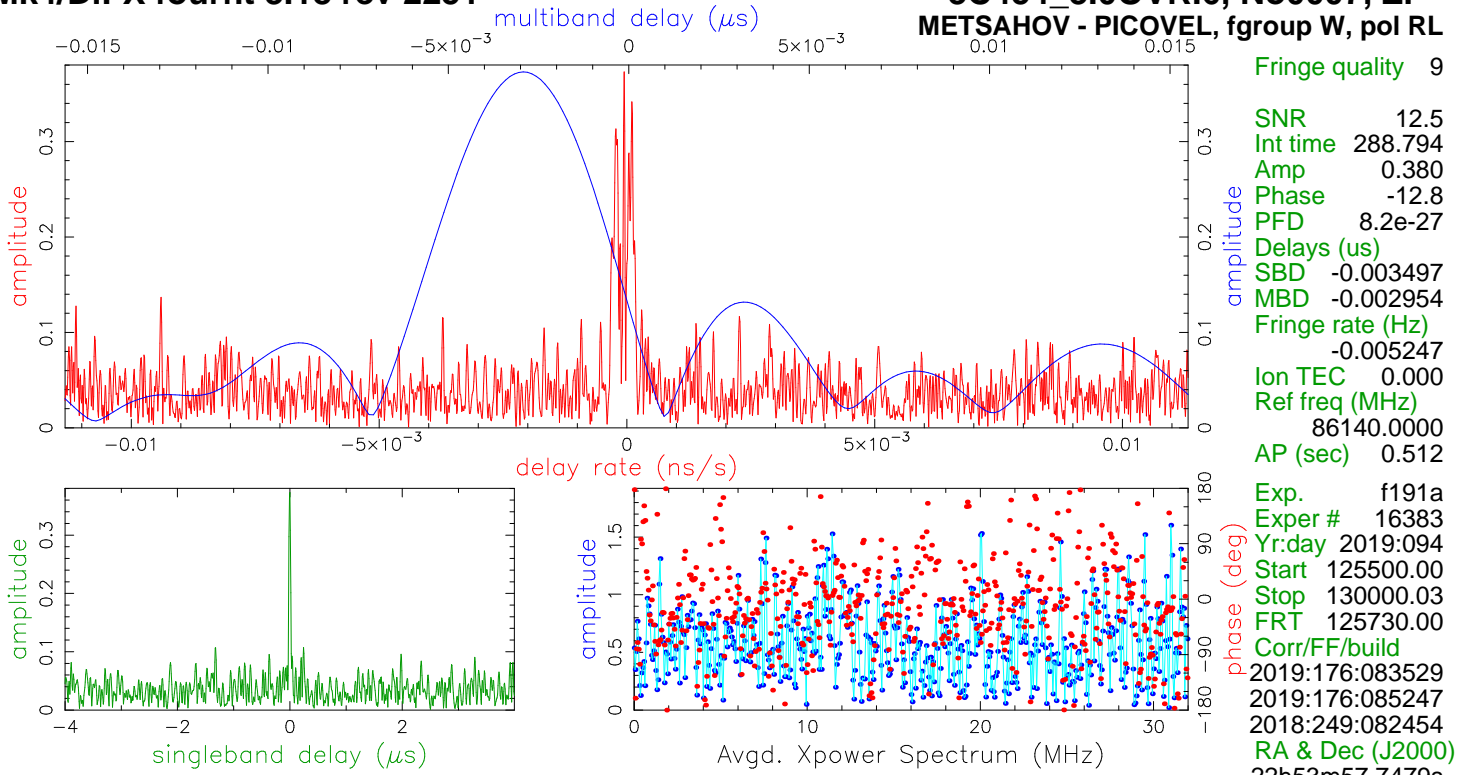


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	Freq (MHz)	All
	138.5	165.7	164.7	174.1	166.2	173.1	161.3	158.7	Phase	163.3
	0.5	0.8	0.7	0.6	0.5	0.7	0.7	0.7	Ampl.	0.6
	511.3	513.5	512.3	512.7	512.7	512.9	512.4	512.5	Sbd box	512.6
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	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	

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) 8.46999999E-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

RMS Theor. Amplitude 0.611 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 73.6 13.7 Search (2048X32) 0.602 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000  
 amp/seg (%) 101.1 23.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016  
 ph/frq (deg) 12.1 8.1 Inc. seg. avg. 1.158 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 (%) 19.0 14.1 Inc. frq. avg. 0.605 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..0OVR16 Output file: /Exps2/f191a/FRINGE/5555/No0007/ZP.W.6.0OVR16



Fringe quality 9

SNR 12.5

Int time 288.794

Amp 0.380

Phase -12.8

PFD 8.2e-27

Delays (us)

SBD -0.003497

MBD -0.002954

Fringe rate (Hz)

-0.005247

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

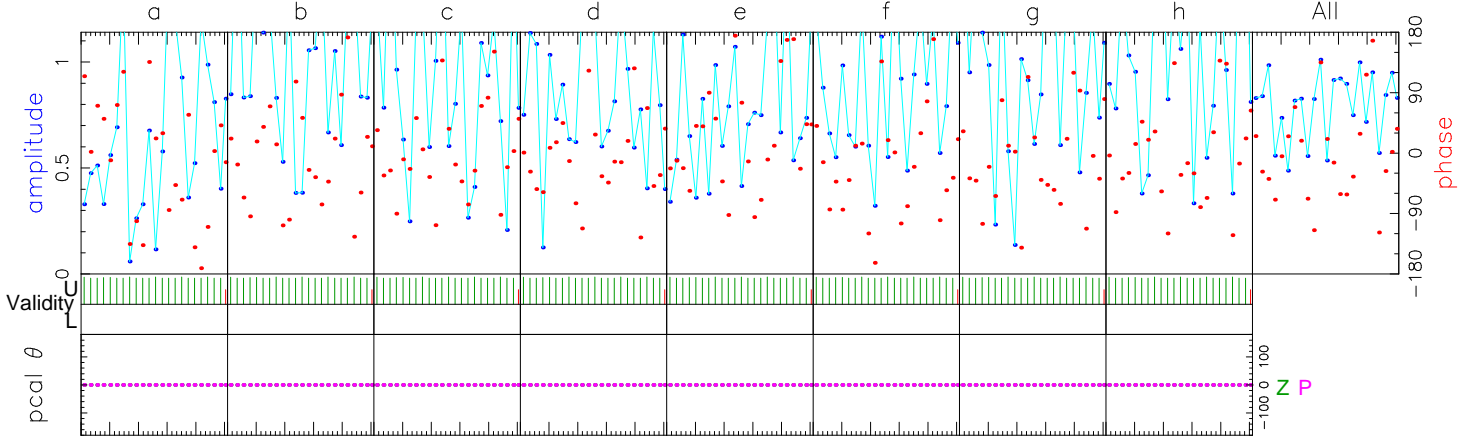
2018:249:082454

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
	-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	Manl 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