

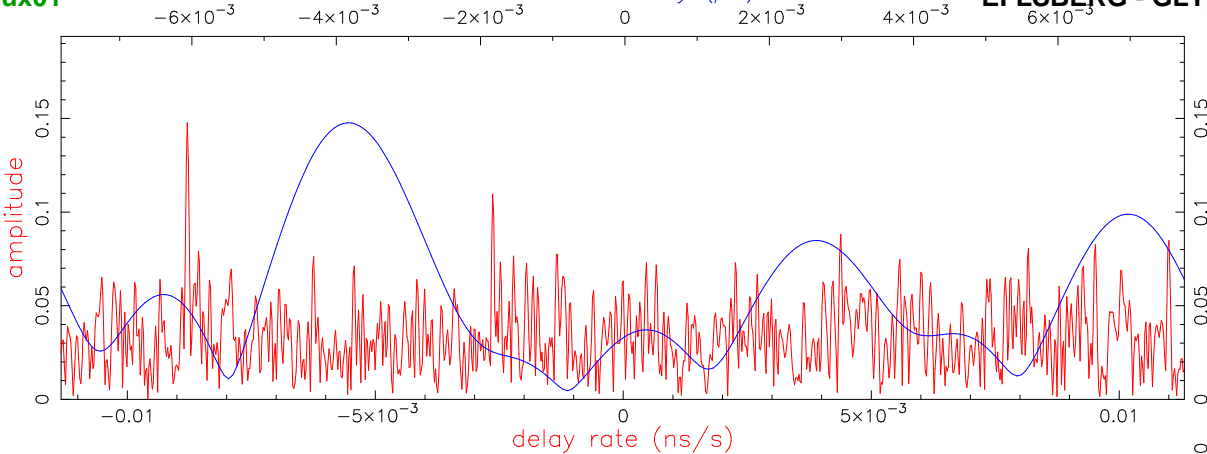
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1H3, No0250, Bg

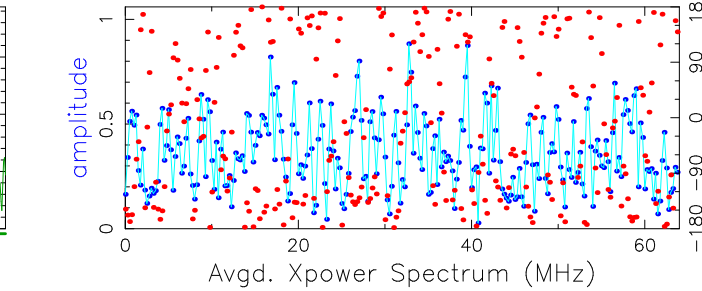
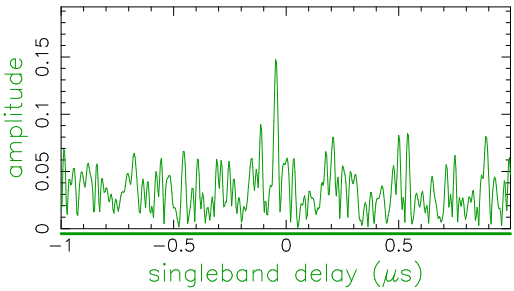
EFLSBERG - GLT, fgroup W, pol RR

multiband delay ( $\mu$ s)



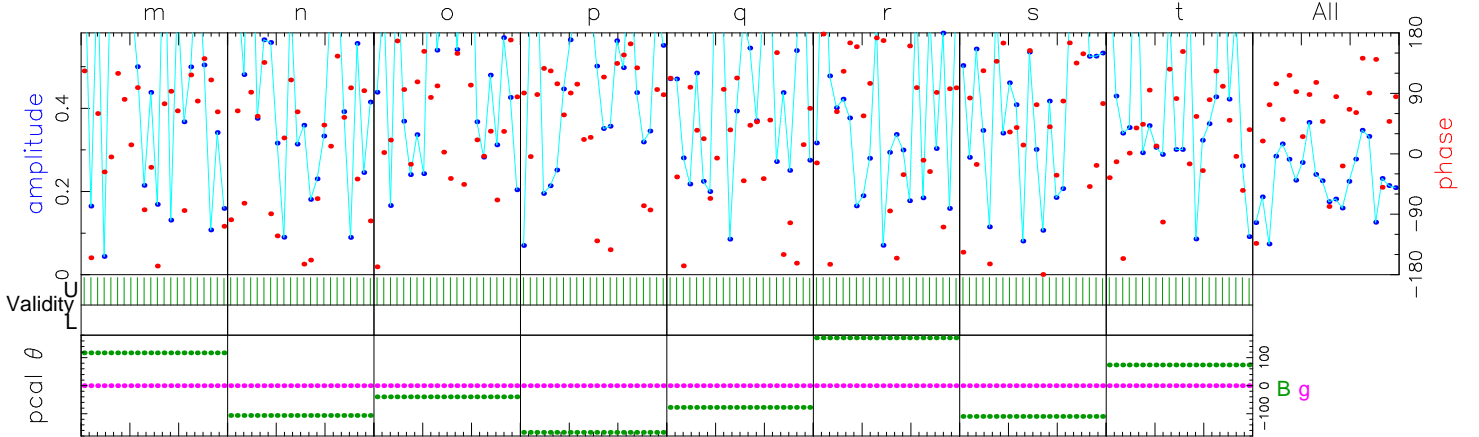
Fringe quality 0

SNR 5.5  
 Int time 179.962  
 Amp 0.194  
 Phase 75.6  
 PFD 9.9e-01  
 Delays (us)  
 SBD -0.045379  
 MBD -0.003799  
 Fringe rate (Hz)  
 -0.757392  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103437  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	0	0	0	0	0	0	0	0		
g	0	0	0	0	0	0	0	0		
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:g	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
g	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	7.71742062111E+03	Apriori delay (usec)	7.71747129535E+03	Resid mbdelay (usec)	-3.79924E-03	+/-	2.0E-04
Sband delay (usec)	7.71742591635E+03	Apriori clock (usec)	-3.5826138E+01	Resid sbdelay (usec)	-4.53790E-02	+/-	1.6E-03
Phase delay (usec)	7.71747129779E+03	Apriori clockrate (us/s)	-9.7390000E-07	Resid phdelay (usec)	2.43686E-06	+/-	6.7E-07
Delay rate (us/s)	1.43522550094E-01	Apriori rate (us/s)	1.43531342663E-01	Resid rate (us/s)	-8.79257E-06	+/-	6.5E-09
Total phase (deg)	212.9	Apriori accel (us/s/s)	-5.49768604915E-05	Resid phase (deg)	75.6	+/-	20.9

ph/seg (deg)	64.7	RMS	49.1	Theor.	64.7	Amplitude	0.194 +/- 0.035	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	73.4	Search (1024X32)	0.145	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	41.0	Inc. seg. avg.	0.219	Inc. frq. avg.	0.201	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	47.4	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	nlags:	256	t_cohere	infinite	ion window (TEC)	0.00	0.00	

B: az 107.3 el 63.4 pa -49.4 g: az 63.3 el 32.1 pa -15.2 u,v (fr/asec) -1079.529 -4696.439 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/Bg..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/Bg.W.12.3MP1H3

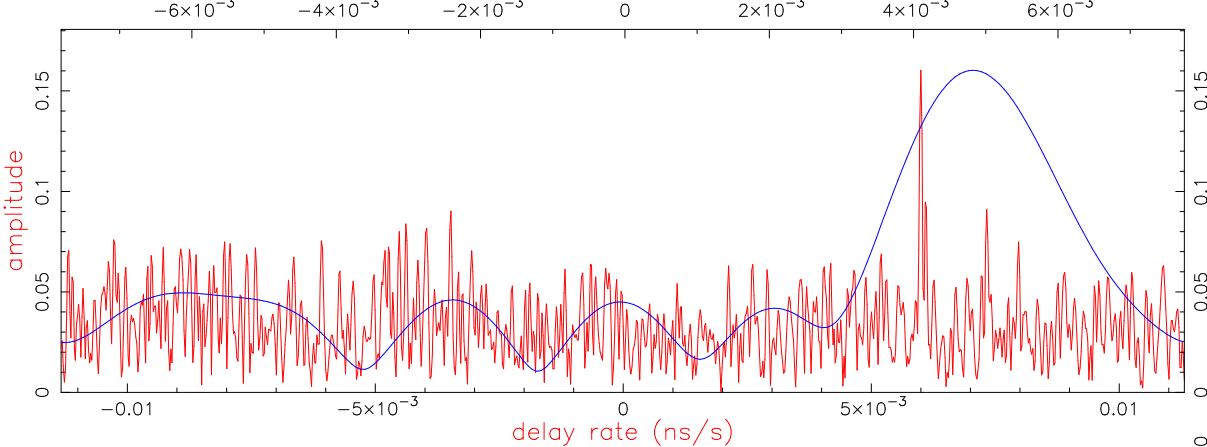
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1H3, No0250, Bg

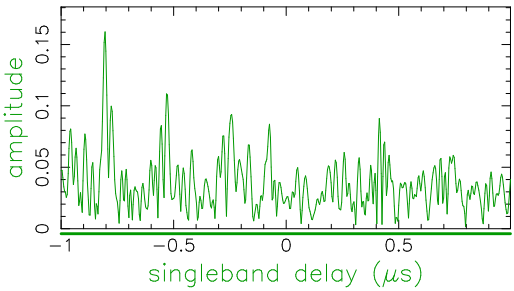
EFLSBERG - GLT, fgroup W, pol LR

multiband delay ( $\mu$ s)

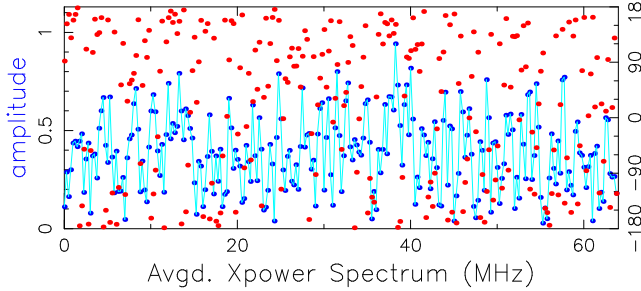


Fringe quality 0

SNR 5.9  
 Int time 179.962  
 Amp 0.181  
 Phase 175.7  
 PFD 3.9e-01  
 Delays (us)  
 SBD -0.805214  
 MBD 0.004831  
 Fringe rate (Hz)  
 0.517418  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

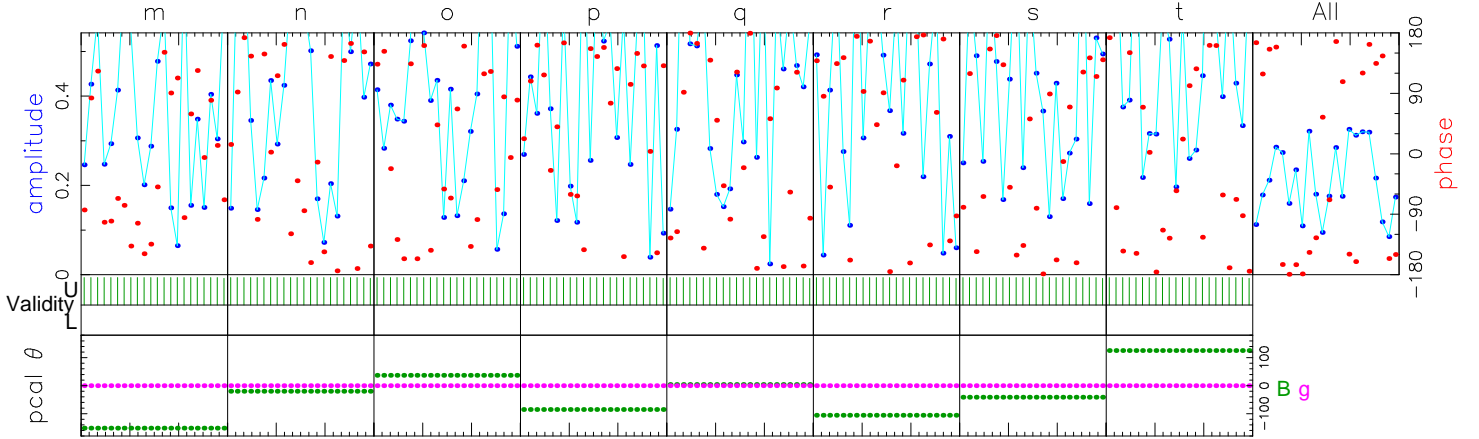


delay rate (ns/s)



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103440  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-104.1	178.8	158.2	149.4	-176.0	150.5	162.4	-152.1	Phase	175.7
	0.1	0.2	0.1	0.3	0.2	0.2	0.2	0.3	Ampl.	0.2
	316.9	131.8	3.2	50.2	122.3	195.4	463.3	363.0	Sbd box	50.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:g	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	7.71666362602E+03	Apriori delay (usec)	7.71747129535E+03	Resid mbdelay (usec)	4.83067E-03	+/-	1.8E-04
Sband delay (usec)	7.71666608135E+03	Apriori clock (usec)	-3.5826138E+01	Resid sbdelay (usec)	-8.05214E-01	+/-	1.5E-03
Phase delay (usec)	7.71747130102E+03	Apriori clockrate (us/s)	-9.7390000E-07	Resid phdelay (usec)	5.66626E-06	+/-	6.3E-07
Delay rate (us/s)	1.43537349376E-01	Apriori rate (us/s)	1.43531342663E-01	Resid rate (us/s)	6.00671E-06	+/-	6.0E-09
Total phase (deg)	313.0	Apriori accel (us/s/s)	-5.49768604915E-05	Resid phase (deg)	175.7	+/-	19.5

ph/seg (deg)	48.8	RMS	45.6	Theor.	48.8	Amplitude	0.181 +/- 0.031	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	59.5	Search (1024X32)	0.156	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	SampCntNorm:	enabled	mb window (us)	-0.008	0.008		
ph/frq (deg)	39.5	Inc. seg. avg.	0.182	Inc. frq. avg.	0.184	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	nlags:	256	t_cohere	infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	31.1	Inc. frq. avg.	0.184			Data rate (Mb/s):	2048							

B: az 107.3 el 63.4 pa -49.4 g: az 63.3 el 32.1 pa -15.2 u,v (fr/asec) -1079.529 -4696.439 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/Bg..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/Bg.W.16.3MP1H3

Mk4/DiFX fourfit 3.25 rev 0

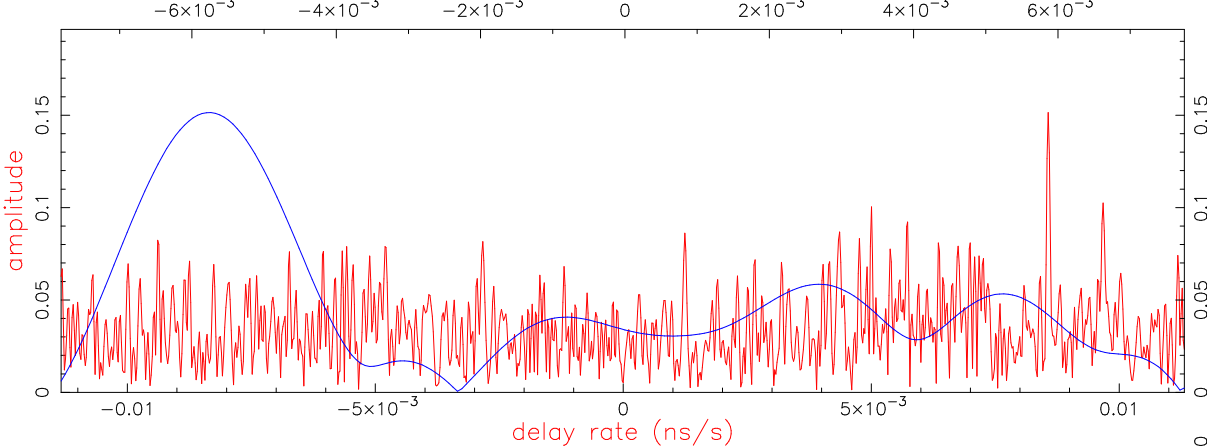
aux01

2013+370.3MP1H3, No0250, Bg

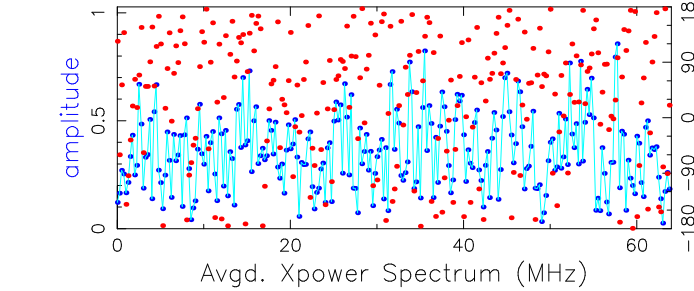
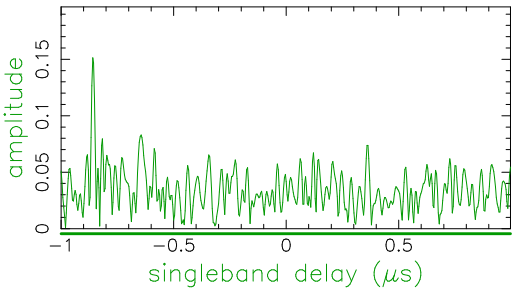
EFLSBERG - GLT, fgroup W, pol RL

multiband delay ( $\mu$ s)

Fringe quality 0

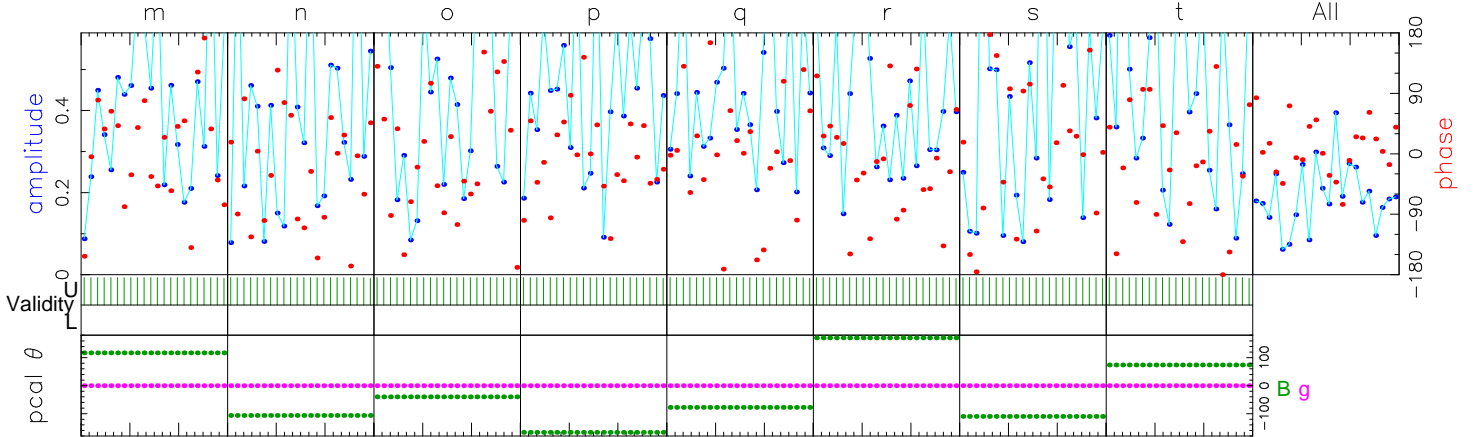


SNR 5.6  
 Int time 179.961  
 Amp 0.196  
 Phase 4.5  
 PFD 9.0e-01  
 Delays (us)  
 SBD -0.858001  
 MBD -0.005741  
 Fringe rate (Hz)  
 0.739264  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103442  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	0	0	0	0	0	0	0	0		
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:g	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
g	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec) (SBD)	7.71660617943E+03					7.71747129535E+03				
Sband delay (usec)	7.71661329460E+03					-3.5826138E+01				
Phase delay (usec)	7.71747129549E+03					-9.7390000E-07				
Delay rate (us/s)	1.43539924786E-01					1.43531342663E-01				
Total phase (deg)			141.8			-5.49768604915E-05				
Apriori delay (usec)									-5.74092E-03	+/- 1.9E-04
Apriori clock (usec)									-8.58001E-01	+/- 1.5E-03
Apriori clockrate (us/s)									1.43770E-07	+/- 6.6E-07
Apriori rate (us/s)									8.58212E-06	+/- 6.3E-09
Apriori accel (us/s/s)									4.5	+/- 20.4
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)										
Bits/sample: 2x2										
Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us										
Data rate(Mb/s): 2048										
nlags: 256 t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00
simultaneous interpolator										

ph/seg (deg) RMS Theor. Amplitude 0.196 +/- 0.035  
 amp/seg (%) 39.3 47.8 Search (1024X32) 0.144  
 ph/frq (deg) 55.9 83.4 Interp. 0.000  
 amp/frq (%) 24.1 28.8 Inc. seg. avg. 0.181  
 43.6 50.3 Inc. frq. avg. 0.181

B: az 107.3 el 63.4 pa -49.4 g: az 63.3 el 32.1 pa -15.2 u,v (fr/asec) -1079.529 -4696.439

Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/Bg..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/Bg.W.25.3MP1H3

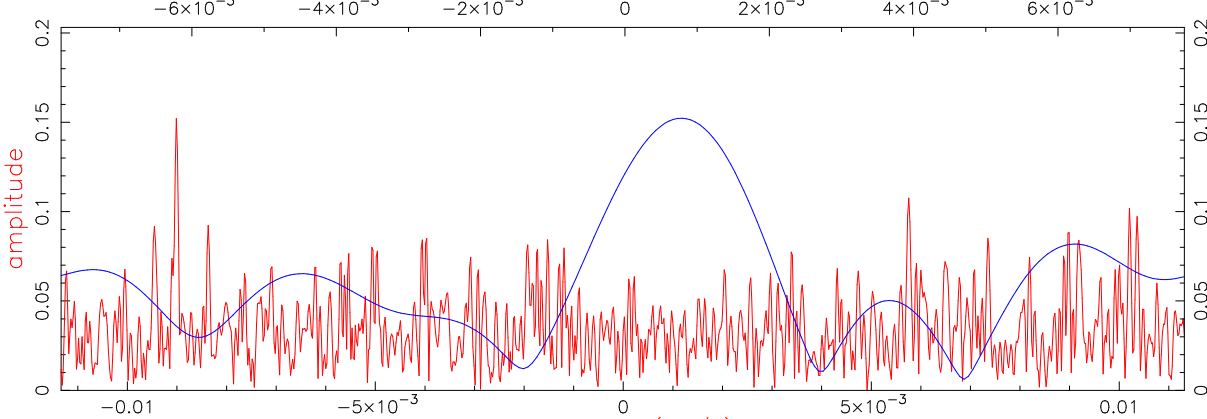
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1H3, No0250, Bg

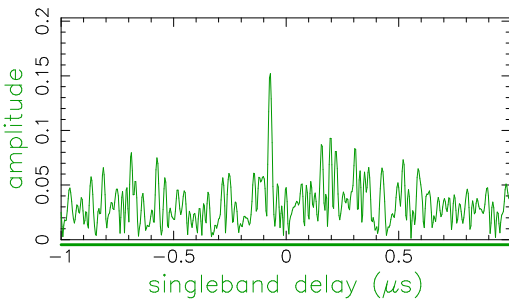
EFLSBERG - GLT, fgroup W, pol LL

multiband delay ( $\mu$ s)

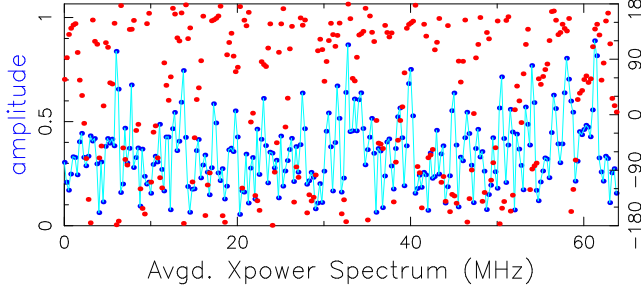


Fringe quality 0

SNR 5.7  
 Int time 179.961  
 Amp 0.203  
 Phase 31.3  
 PFD 8.6e-01  
 Delays (us)  
 SBD -0.071749  
 MBD 0.000723  
 Fringe rate (Hz)  
 -0.778253  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

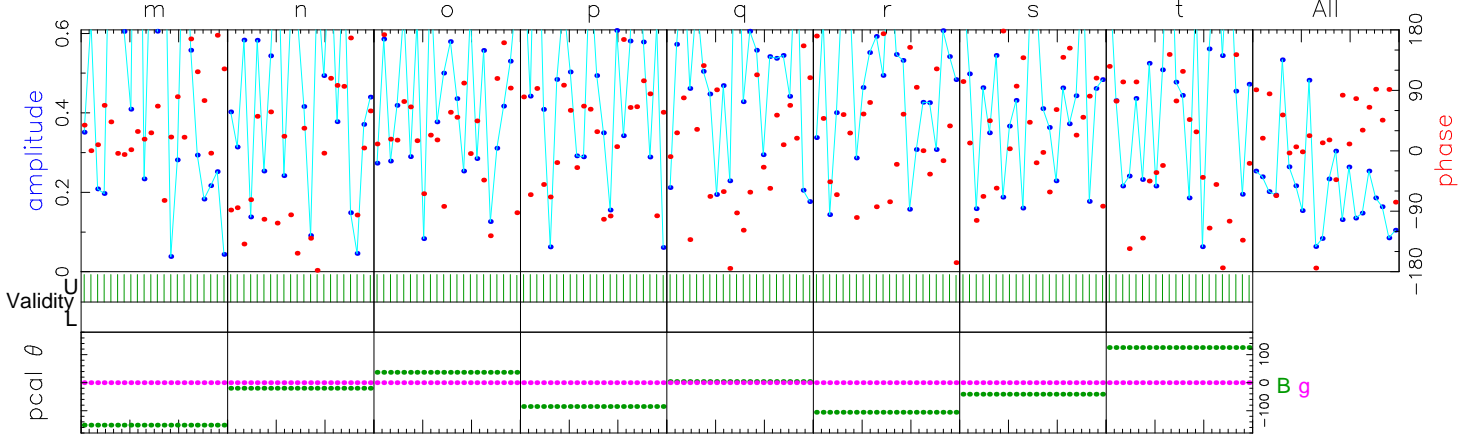


delay rate (ns/s)



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103435  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	0	0	0	0	0	0	0	0		
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:g	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
g	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	7.71739389331E+03	Apriori delay (usec)	7.71747129535E+03	Resid mbdelay (usec)	7.22962E-04	+/-	1.9E-04
Sband delay (usec)	7.71739954635E+03	Apriori clock (usec)	-3.5826138E+01	Resid sbdelay (usec)	-7.17490E-02	+/-	1.5E-03
Phase delay (usec)	7.71747129636E+03	Apriori clockrate (us/s)	-9.7390000E-07	Resid phdelay (usec)	1.01048E-06	+/-	6.5E-07
Delay rate (us/s)	1.43522307915E-01	Apriori rate (us/s)	1.43531342663E-01	Resid rate (us/s)	-9.03475E-06	+/-	6.3E-09
Total phase (deg)	168.7	Apriori accel (us/s/s)	-5.49768604915E-05	Resid phase (deg)	31.3	+/-	20.3

ph/seg (deg)	RMS 58.3	Theor. 47.6	Amplitude Search (1024X32)	0.203 +/- 0.036	0.150	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	83.3	83.0	Interp.	0.000	0.150	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	67.4	28.7	Inc. seg. avg.	0.209	0.195	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	dr window (ns/s)	-0.011	0.011
amp/frq (%)	69.3	50.1	Inc. frq. avg.	0.195	0.195	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 107.3 el 63.4 pa -49.4 g: az 63.3 el 32.1 pa -15.2 u, v (fr/asec) -1079.529 -4696.439 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/Bg..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/Bg.W.4.3MP1H3

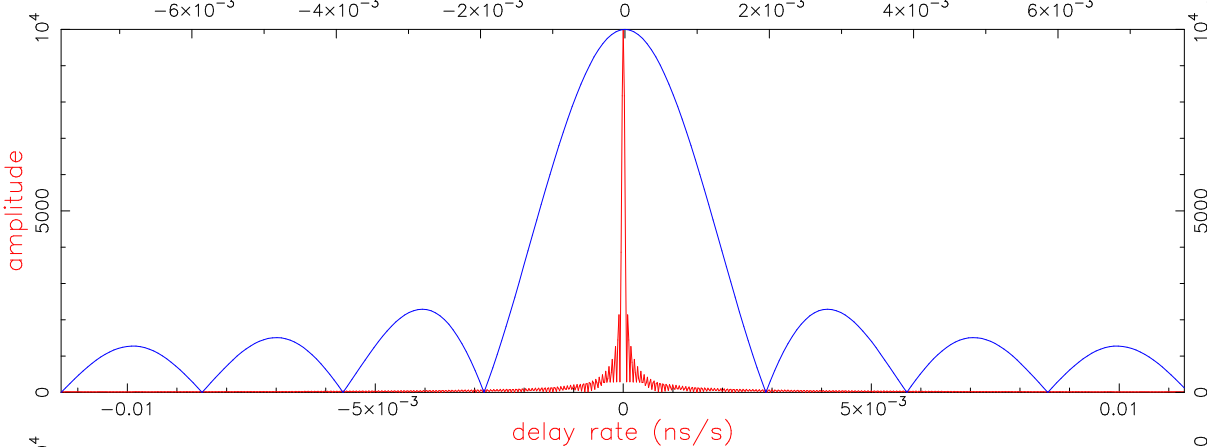
Mk4/DiFX fourfit 3.25 rev 0

2013+370.3MP1H3, No0250, gg

aux01

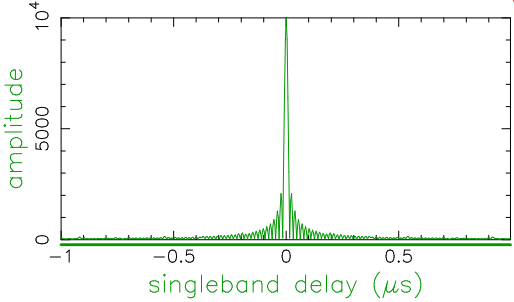
GLT - GLT, fgroup W, pol RR

multiband delay ( $\mu$ s)

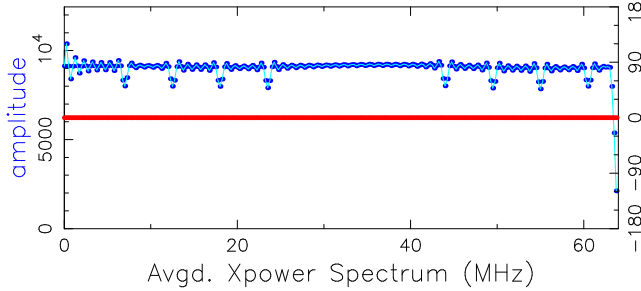


Fringe quality 9

SNR 366876.6  
 Int time 179.988  
 Amp 10000.002  
 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

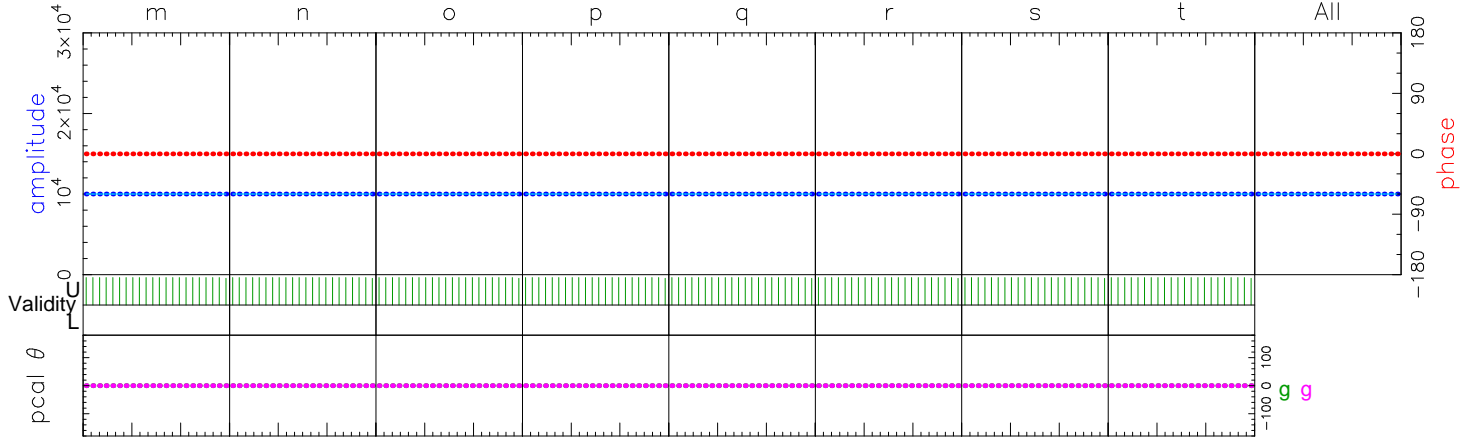


delay rate (ns/s)



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103437  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	10000.0	10000.0
g	0	0	0	0	0	0	0	0	Ampl.	257.0
g:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
g:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC phase	
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Mani PC	
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
									Chan ids	
									Tracks	
									Chan ids	
									Tracks	

Group delay (usec) (SBD)	0.000000000000E+00	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	0.000000E+00	+/-	3.0E-09
Sband delay (usec)	0.000000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.000000E+00	+/-	2.3E-08
Phase delay (usec)	0.000000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.000000E+00	+/-	1.0E-11
Delay rate (us/s)	0.000000000000E+00	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	0.000000E+00	+/-	9.7E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	0.0	+/-	0.0

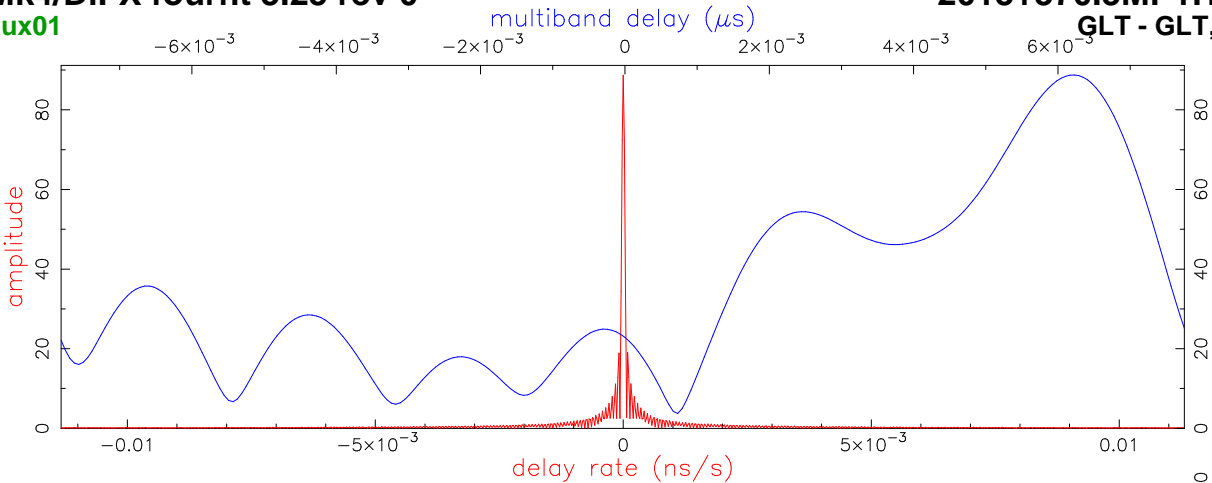
ph/seg (deg) 0.0 0.0 Theor. Amplitude 10000.002 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 0.0 0.0 Search (1024X32) 10000.002 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 g: az 63.3 el 32.1 pa -15.2 g: az 63.3 el 32.1 pa -15.2 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gg..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gg.W.10.3MP1H3 simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

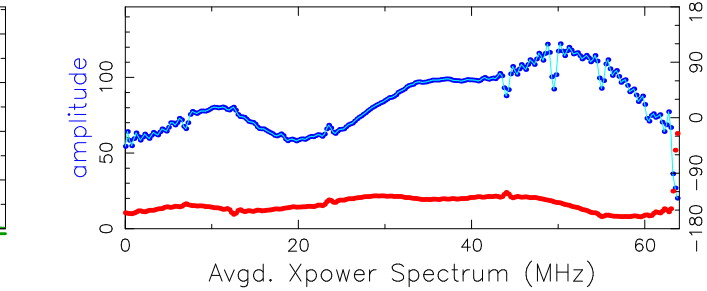
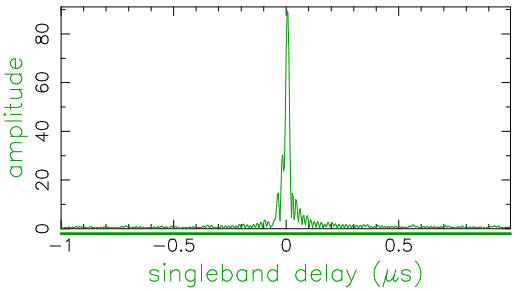
aux01

2013+370.3MP1H3, No0250, gg

GLT - GLT, fgroup W, pol LR

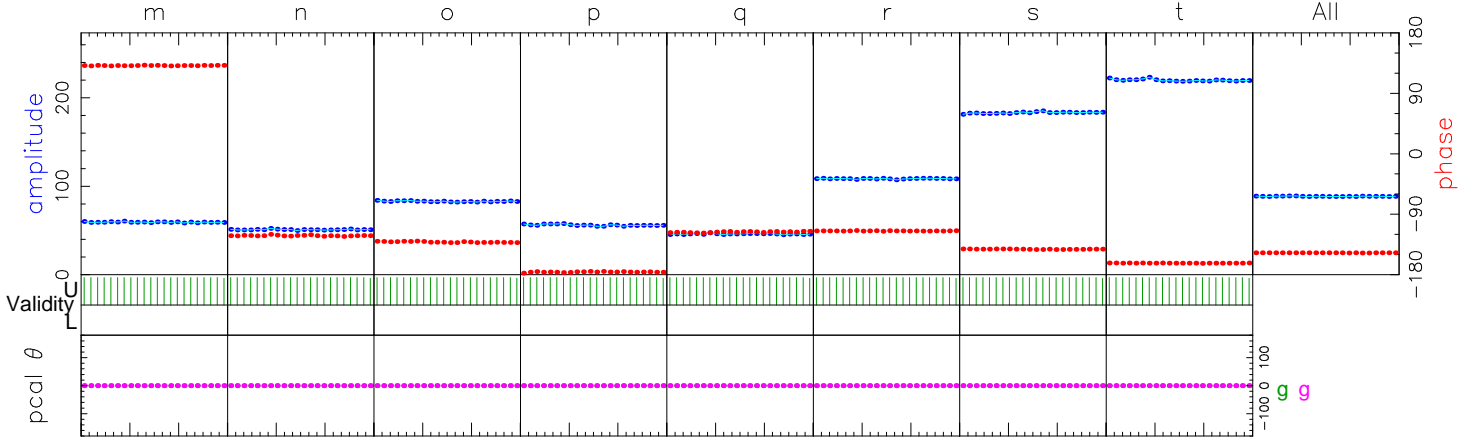


Fringe quality 5  
 Error code G  
 SNR 3344.3  
 Int time 179.988  
 Amp 91.157  
 Phase -147.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.005701  
 MBD 0.006155  
 Fringe rate (Hz)  
 0.000001  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103440  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	131.3	-121.7	-131.2	-175.9	-116.4	-114.8	-142.0	-162.7	Phase	-147.3
	59.4	51.0	83.0	56.2	46.1	108.6	183.2	220.0	Ampl.	100.9
	258.5	257.2	256.7	258.9	256.3	258.1	258.5	258.2	Sbd box	258.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
g:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	6.15478125000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	6.15478E-03	+/-	3.2E-07
Sband delay (usec)	5.70075000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	5.70075E-03	+/-	2.6E-06
Phase delay (usec)	-4.75018142375E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.75018E-06	+/-	1.1E-09
Delay rate (us/s)	1.41711523917E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	1.41712E-11	+/-	1.1E-11
Total phase (deg)	-147.3	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-147.3	+/-	0.0

ph/seg (deg) 0.1 0.1 Amplitude 91.157 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 2.7 0.1 Search (1024X32) 88.177 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 42.1 0.0 Incr. seg. avg. 88.674 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 68.6 0.1 Incr. frq. avg. 100.921 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 g: az 63.3 el 32.1 pa -15.2 g: az 63.3 el 32.1 pa -15.2 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gg..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gg.W.18.3MP1H3 simultaneous interpolator

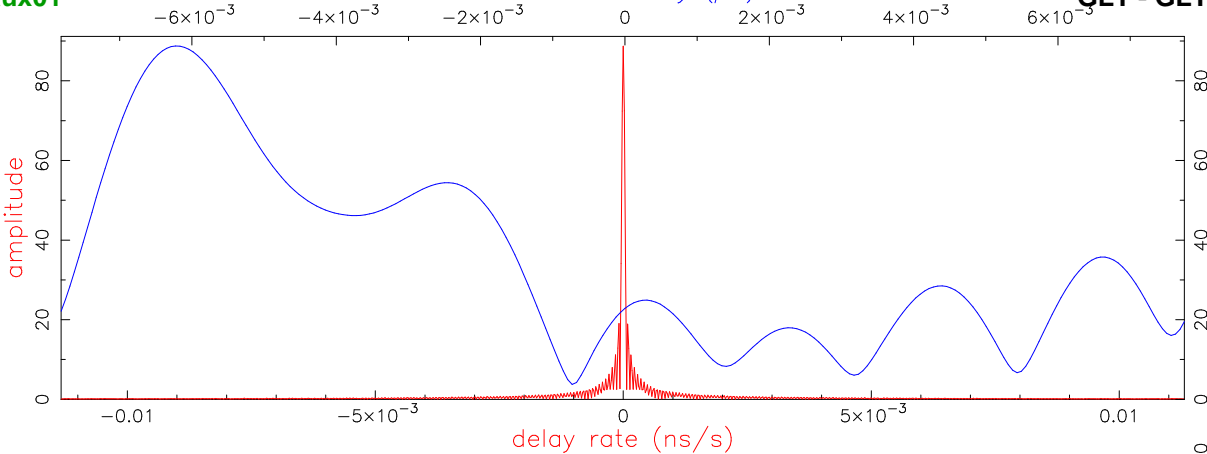
Mk4/DiFX fourfit 3.25 rev 0

aux01

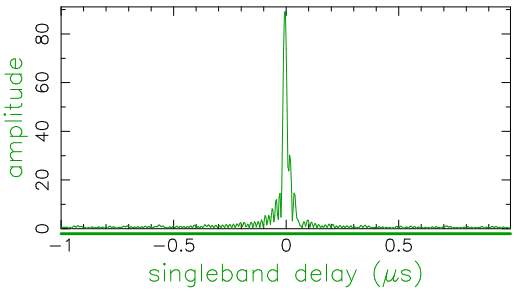
2013+370.3MP1H3, No0250, gg

GLT - GLT, fgroup W, pol RL

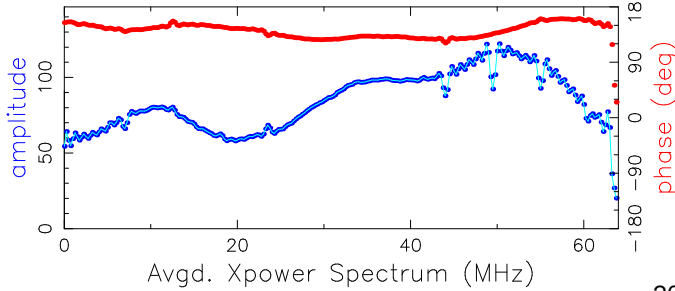
multiband delay ( $\mu$ s)



Fringe quality 5  
 Error code G  
 SNR 3344.3  
 Int time 179.988  
 Amp 91.157  
 Phase 147.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.005701  
 MBD -0.006155  
 Fringe rate (Hz)  
 -0.000001  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103442  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

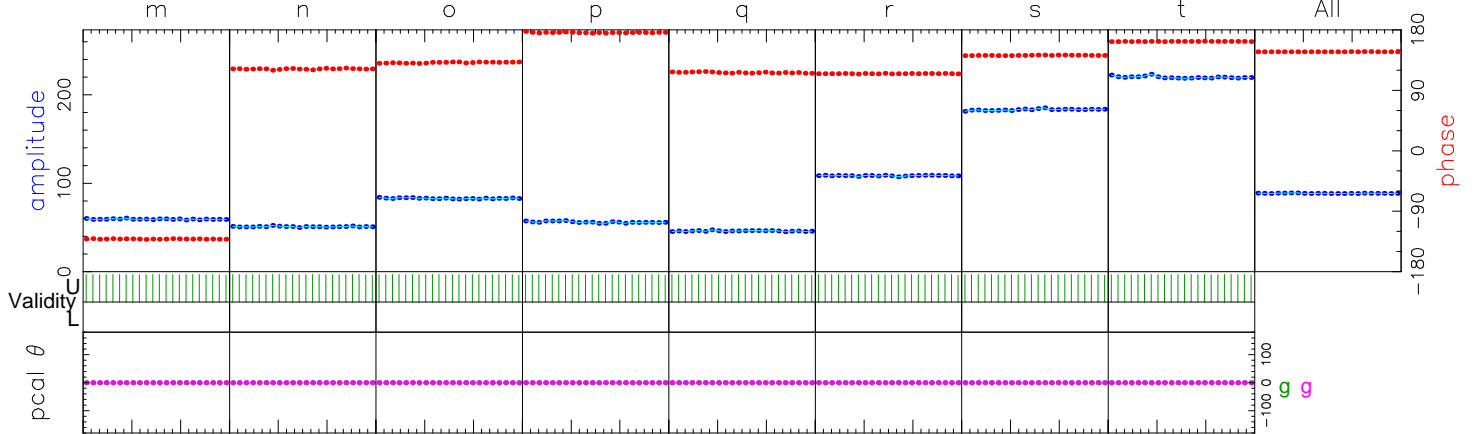


delay rate (ns/s)



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-131.3	121.7	131.2	175.9	116.4	114.8	142.0	162.7	Phase	147.3
	59.4	51.0	83.0	56.2	46.1	108.6	183.2	220.0	Ampl.	100.9
	255.5	256.8	257.3	255.1	257.7	255.9	255.5	255.8	Sbd box	255.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
g:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-6.15478125000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.15478E-03	+/-	3.2E-07
Sband delay (usec)	-5.70075000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-5.70075E-03	+/-	2.6E-06
Phase delay (usec)	4.75018142381E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.75018E-06	+/-	1.1E-09
Delay rate (us/s)	-1.41711523917E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-1.41712E-11	+/-	1.1E-11
Total phase (deg)	147.3	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	147.3	+/-	0.0

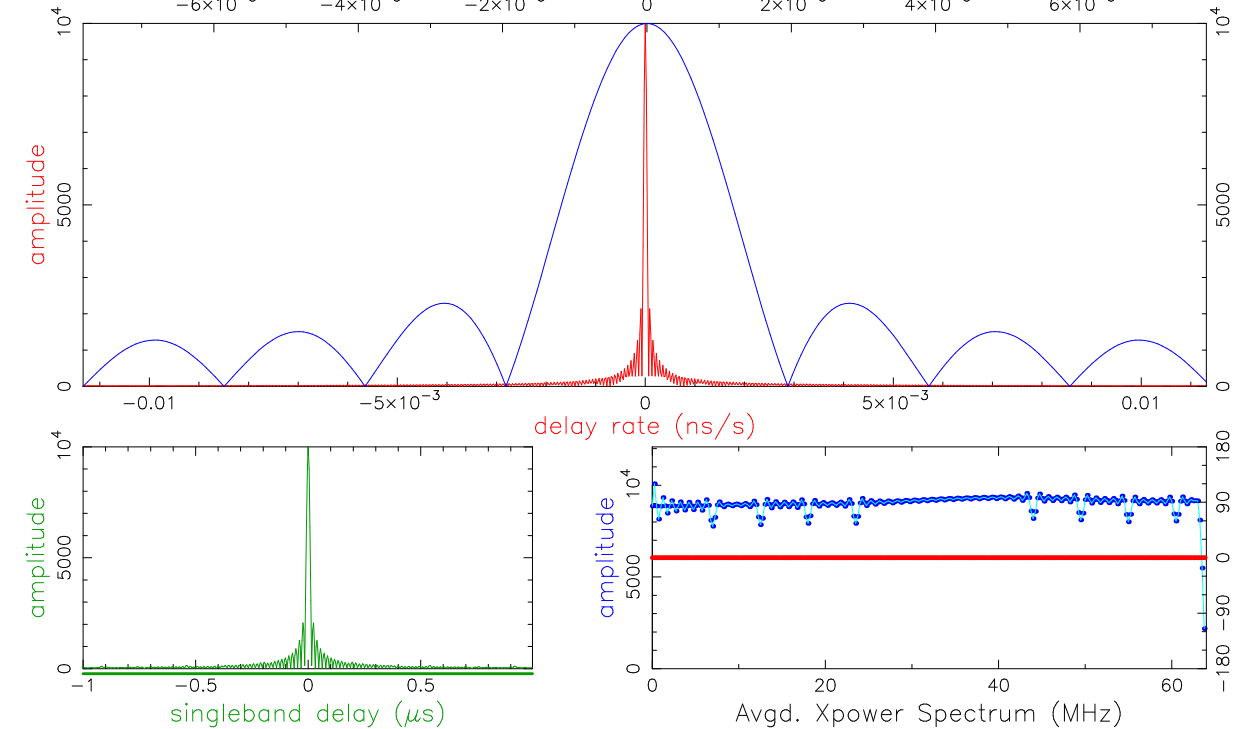
ph/seg (deg) 0.1 0.1 Search (1024X32) 88.177 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 2.7 0.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 42.1 0.0 Inc. seg. avg. 88.674 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 68.6 0.1 Inc. frq. avg. 100.921 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 g: az 63.3 el 32.1 pa -15.2 g: az 63.3 el 32.1 pa -15.2 u, v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gg..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gg.W.30.3MP1H3 simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

2013+370.3MP1H3, No0250, gg

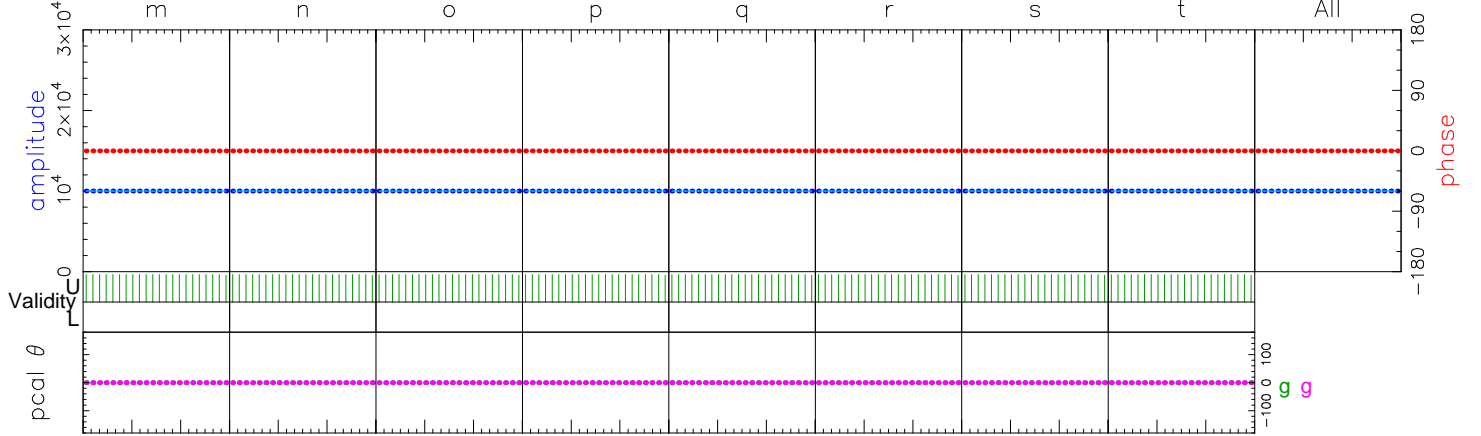
aux01

GLT - GLT, fgroup W, pol LL



Fringe quality 9  
 SNR 366876.0  
 Int time 179.988  
 Amp 10000.002  
 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. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103435  
 2024:113:095956  
 RA & Dec (J2000) 20h15m28.729786s +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	10000.0	10000.0
g	0	0	0	0	0	0	0	0	Ampl.	257.0
g:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
g:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC phase	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Mani PC	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
									Chan ids	
									Tracks	
									Chan ids	
									Tracks	

Group delay (usec) (SBD) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 3.0E-09  
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 2.3E-08  
 Phase delay (usec) 0.0000000000E+00 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 0.00000E+00 +/- 1.0E-11  
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 9.7E-14  
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10000.002 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 0.0 0.0 Search (1024X32) 10000.002 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 g: az 63.3 el 32.1 pa -15.2 g: az 63.3 el 32.1 pa -15.2 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gg..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gg.W.5.3MP1H3 simultaneous interpolator



Mk4/DiFX fourfit 3.25 rev 0

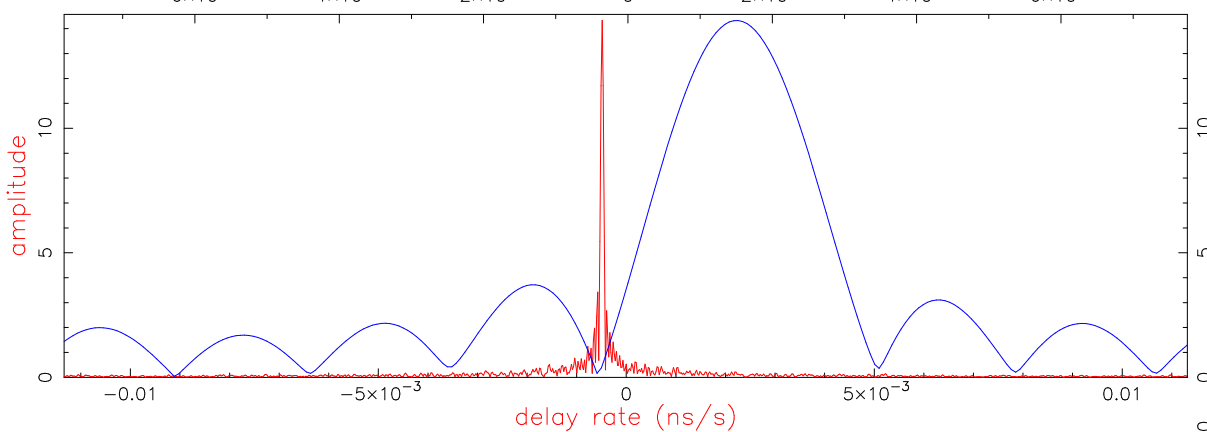
aux01

2013+370.3MP1H3, No0250, gN

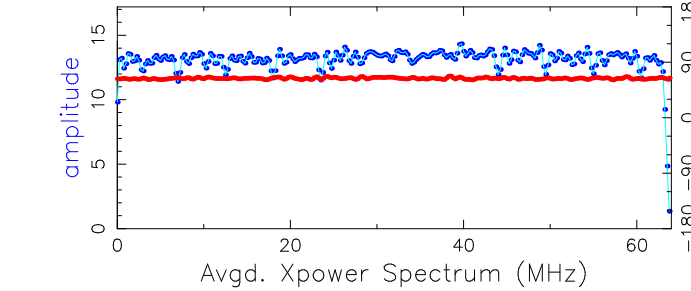
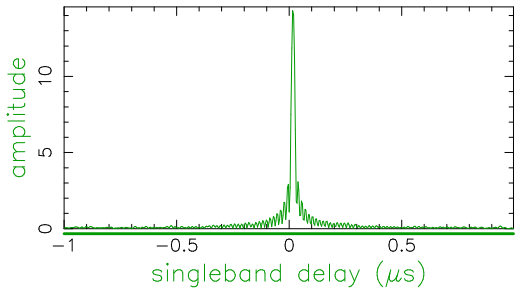
GLT - NOEMA, fgroup W, pol LL

multiband delay ( $\mu$ s)

Fringe quality 9

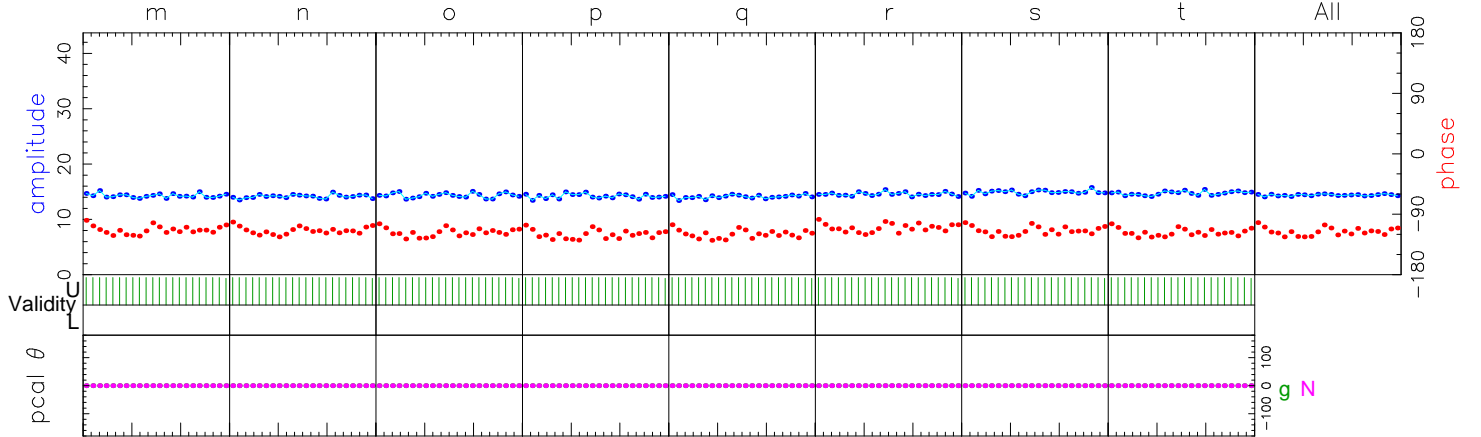


SNR 534.2  
 Int time 179.980  
 Amp 14.573  
 Phase -115.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.017184  
 MBD 0.001509  
 Fringe rate (Hz)  
 -0.041161  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103441  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-113.2	-114.3	-116.9	-119.8	-119.4	-110.0	-114.5	-117.0	Phase	-115.6
	14.2	14.1	14.3	14.1	14.1	14.5	14.9	14.7	Ampl.	14.4
	261.3	261.4	261.3	261.5	261.5	261.4	261.3	261.5	Sbd box	261.4
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
N/g	0	0	0	0	0	0	0	0	PC freqs	
g:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD) -7.83021468399E+03 Apriori delay (usec) -7.83023181809E+03 Resid mbdelay (usec) 1.50910E-03 +/- 2.0E-06  
 Sband delay (usec) -7.83021463359E+03 Apriori clock (usec) 1.3784830E+01 Resid sbdelay (usec) 1.71845E-02 +/- 1.6E-05  
 Phase delay (usec) -7.83023182182E+03 Apriori clockrate (us/s) 7.7006197E-07 Resid phdelay (usec) -3.72842E-06 +/- 6.9E-09  
 Delay rate (us/s) -2.06098897987E-01 Apriori rate (us/s) -2.06098420144E-01 Resid rate (us/s) -4.77843E-07 +/- 6.6E-11  
 Total phase (deg) -47.2 Apriori accel (us/s/s) 6.01839379320E-05 Resid phase (deg) -115.6 +/- 0.2

ph/seg (deg) 5.7 0.5 Theor. Amplitude 14.573 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 1.5 0.9 Search (1024X32) 13.731 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 3.6 0.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 2.4 0.5 Inc. seg. avg. 14.411 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 g: az 63.3 el 32.1 pa -15.2 N: az 94.7 el 63.9 pa -62.8 u,v (fr/asec) 1534.970 5492.410 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gN..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gN.W.23.3MP1H3

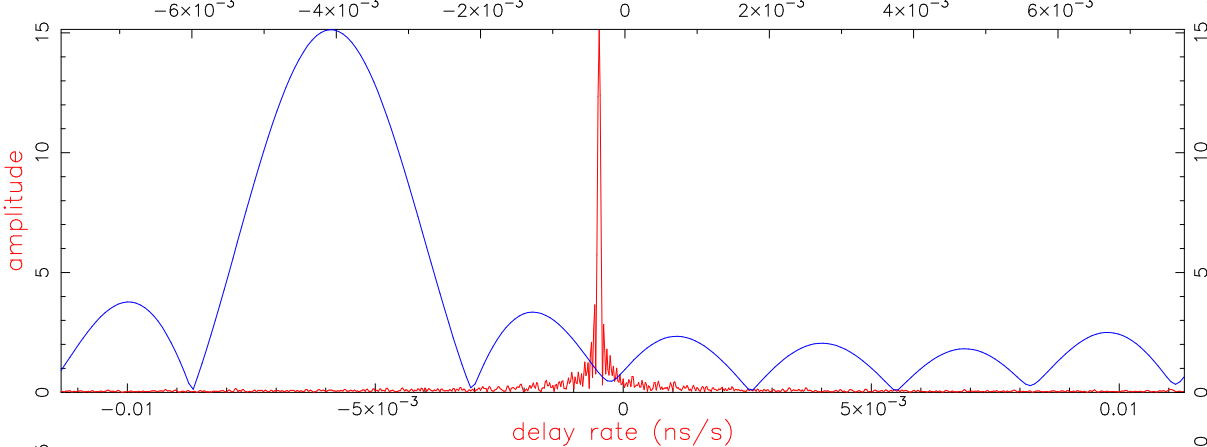
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1H3, No0250, gN

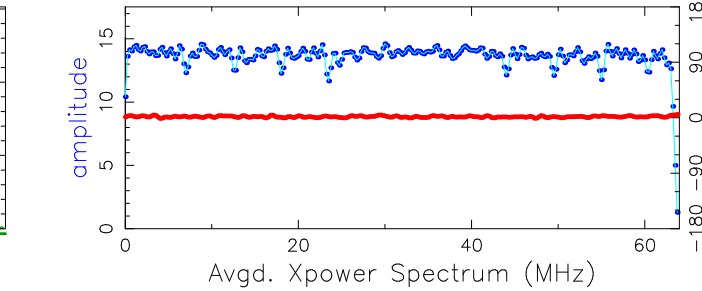
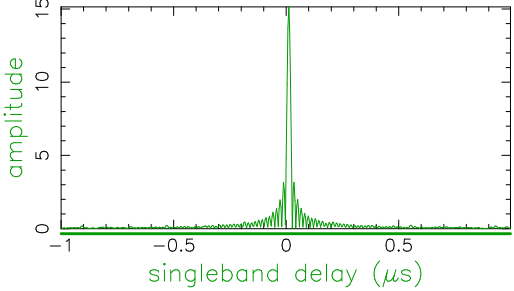
GLT - NOEMA, fgroup W, pol RR

multiband delay ( $\mu$ s)



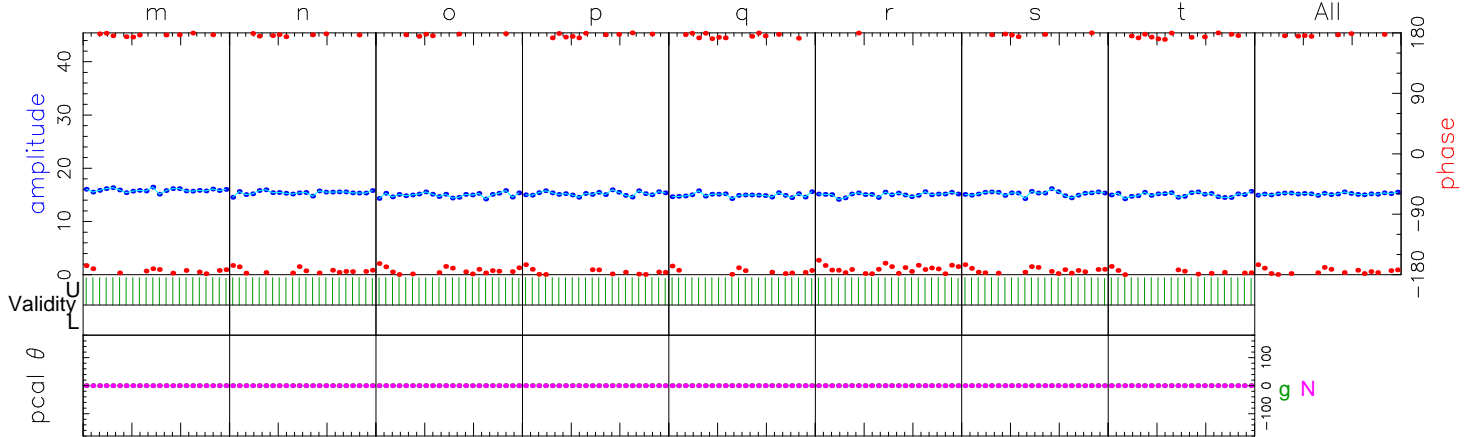
Fringe quality 9

SNR 555.3  
 Int time 179.981  
 Amp 15.147  
 Phase -177.4  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.011629  
 MBD -0.004074  
 Fringe rate (Hz)  
 -0.041164  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103442  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
g:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD) -7.83022026680E+03 Apriori delay (usec) -7.83023181809E+03 Resid mbdelay (usec) -4.07372E-03 +/- 2.0E-06  
 Sband delay (usec) -7.83022018884E+03 Apriori clock (usec) 1.3784830E+01 Resid sbdelay (usec) 1.16292E-02 +/- 1.6E-05  
 Phase delay (usec) -7.83023182381E+03 Apriori clockrate (us/s) 7.7006197E-07 Resid phdelay (usec) -5.71974E-06 +/- 6.7E-09  
 Delay rate (us/s) -2.06098898022E-01 Apriori rate (us/s) -2.06098420144E-01 Resid rate (us/s) -4.77878E-07 +/- 6.4E-11  
 Total phase (deg) -109.0 Apriori accel (us/s/s) 6.01839379320E-05 Resid phase (deg) -177.4 +/- 0.2

ph/seg (deg) 5.5 0.5 Theor. Amplitude 15.147 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 1.2 0.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 3.2 0.3 Inc. seg. avg. 15.215 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 1.9 0.5 Inc. frq. avg. 15.163 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 g: az 63.3 el 32.1 pa -15.2 N: az 94.7 el 63.9 pa -62.8 u,v (fr/asec) 1534.970 5492.410 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gN..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gN.W.33.3MP1H3

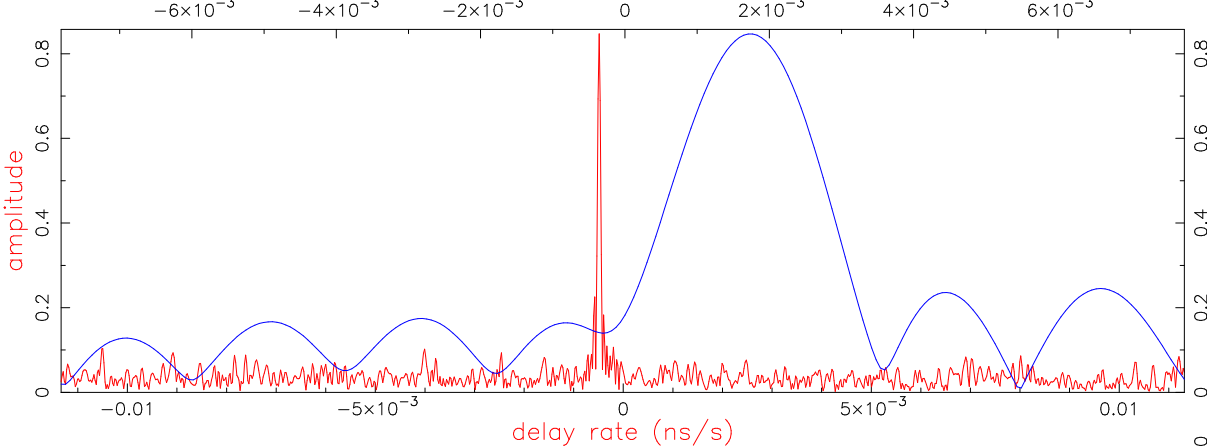
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1H3, No0250, gN

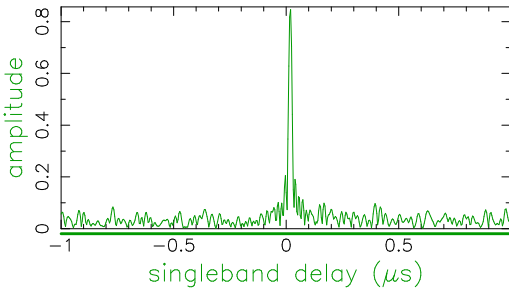
GLT - NOEMA, fgroup W, pol LR

multiband delay ( $\mu$ s)

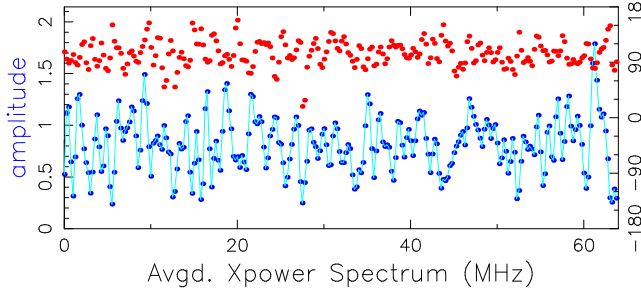


Fringe quality 7

SNR 31.4  
 Int time 179.980  
 Amp 0.857  
 Phase -67.1  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.018222  
 MBD 0.001743  
 Fringe rate (Hz)  
 -0.041212  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

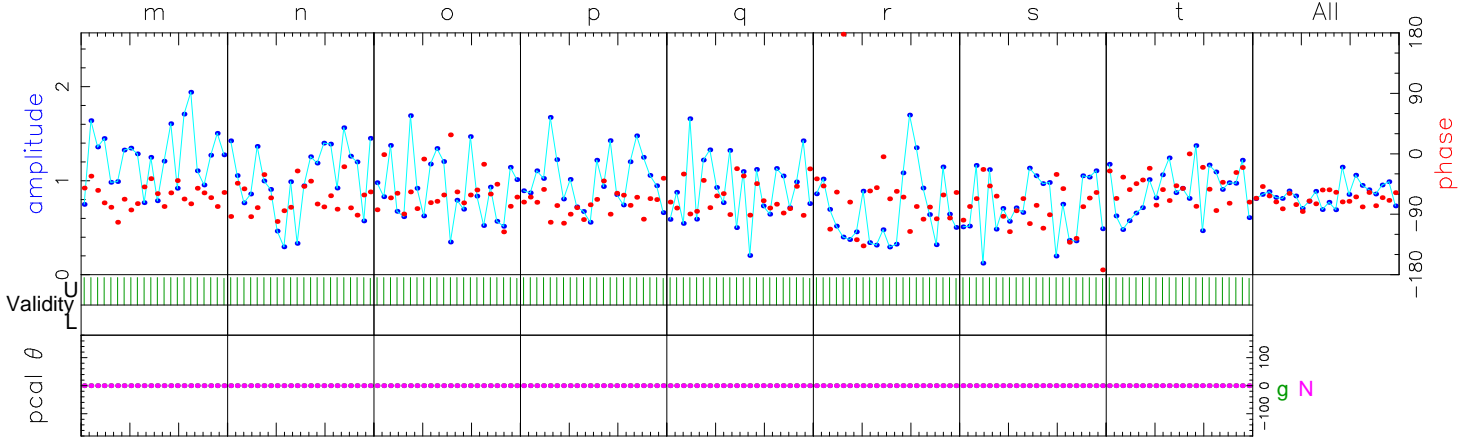


delay rate (ns/s)



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103444  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-63.9	-65.6	-61.4	-75.0	-67.6	-80.6	-81.3	-49.2	Phase	-67.1
	1.2	1.0	0.8	1.0	0.8	1.0	0.6	0.8	Ampl.	0.9
	261.5	261.7	261.7	261.4	261.9	261.7	261.7	261.5	Sbd box	261.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
g:N	0	0	0	0	0	0	0	0	PC freqs	
g:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD) -7.83021444993E+03 Apriori delay (usec) -7.83023181809E+03 Resid mbdelay (usec) 1.74316E-03 +/- 3.5E-05  
 Sband delay (usec) -7.83021359609E+03 Apriori clock (usec) 1.3784830E+01 Resid sbdelay (usec) 1.82220E-02 +/- 2.7E-04  
 Phase delay (usec) -7.83023182025E+03 Apriori clockrate (us/s) 7.7006197E-07 Resid phdelay (usec) -2.16534E-06 +/- 1.2E-07  
 Delay rate (us/s) -2.06098898571E-01 Apriori rate (us/s) -2.06098420144E-01 Resid rate (us/s) -4.78427E-07 +/- 1.1E-09  
 Total phase (deg) -358.7 Apriori accel (us/s/s) 6.01839379320E-05 Resid phase (deg) -67.1 +/- 3.6

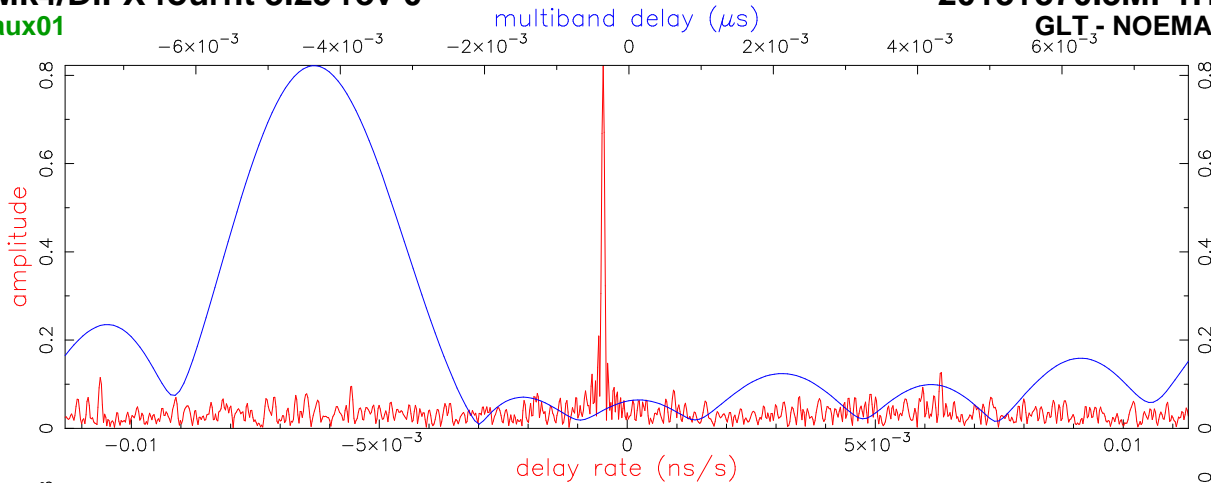
RMS Theor. Amplitude 0.857 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 9.7 8.5 Search (1024X32) 0.808 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 13.1 14.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 11.6 5.2 Inc. seg. avg. 0.849 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 amp/frq (%) 21.0 9.0 Inc. frq. avg. 0.855 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 g: az 63.3 el 32.1 pa -15.2 N: az 94.7 el 63.9 pa -62.8 u,v (fr/asec) 1534.970 5492.410 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gN..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gN.W.42.3MP1H3

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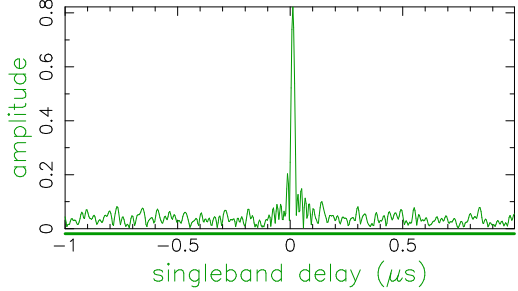
2013+370.3MP1H3, No0250, gN

GLT - NOEMA, fgroup W, pol RL

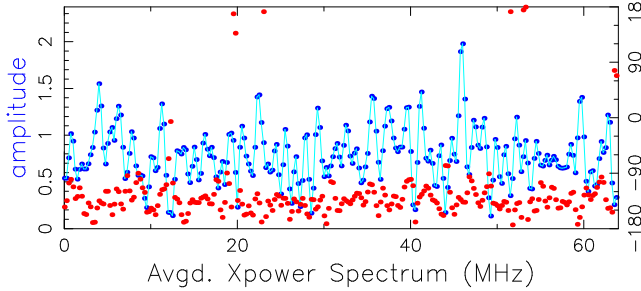


Fringe quality 8

SNR 30.2  
 Int time 179.981  
 Amp 0.823  
 Phase 51.5  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.011808  
 MBD -0.004362  
 Fringe rate (Hz)  
 -0.041127  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

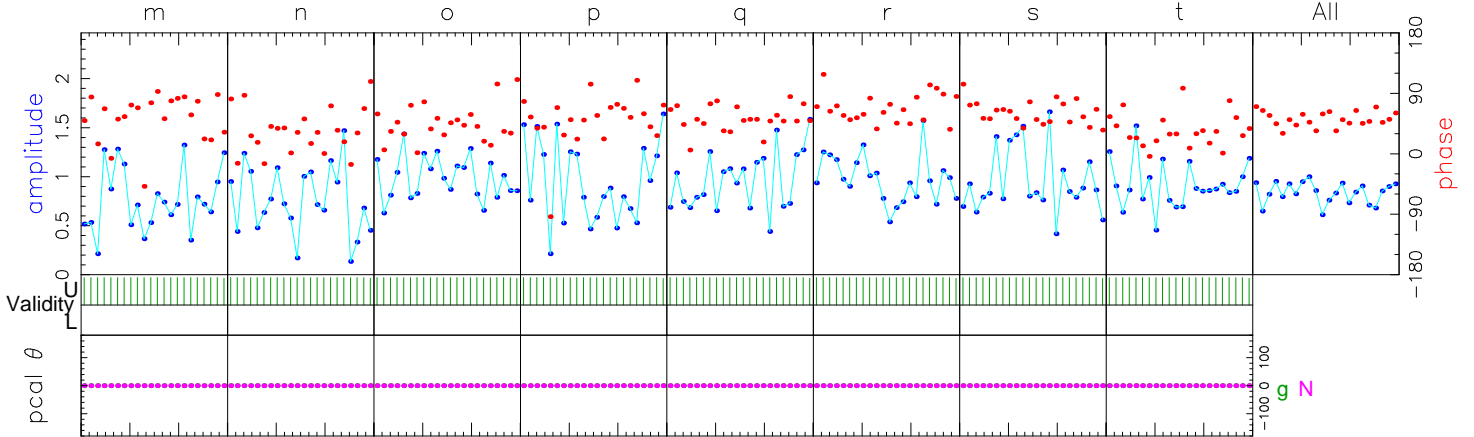


delay rate (ns/s)



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103446  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
g:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	-7.83022055471E+03	Apriori delay (usec)	-7.83023181809E+03	Resid mbdelay (usec)	-4.36162E-03	+/-	3.6E-05
Sband delay (usec)	-7.83022000959E+03	Apriori clock (usec)	1.3784830E+01	Resid sbdelay (usec)	1.18085E-02	+/-	2.9E-04
Phase delay (usec)	-7.83023181643E+03	Apriori clockrate (us/s)	7.7006197E-07	Resid phdelay (usec)	1.66022E-06	+/-	1.2E-07
Delay rate (us/s)	-2.06098897589E-01	Apriori rate (us/s)	-2.06098420144E-01	Resid rate (us/s)	-4.77445E-07	+/-	1.2E-09
Total phase (deg)	-240.1	Apriori accel (us/s/s)	6.01839379320E-05	Resid phase (deg)	51.5	+/-	3.8

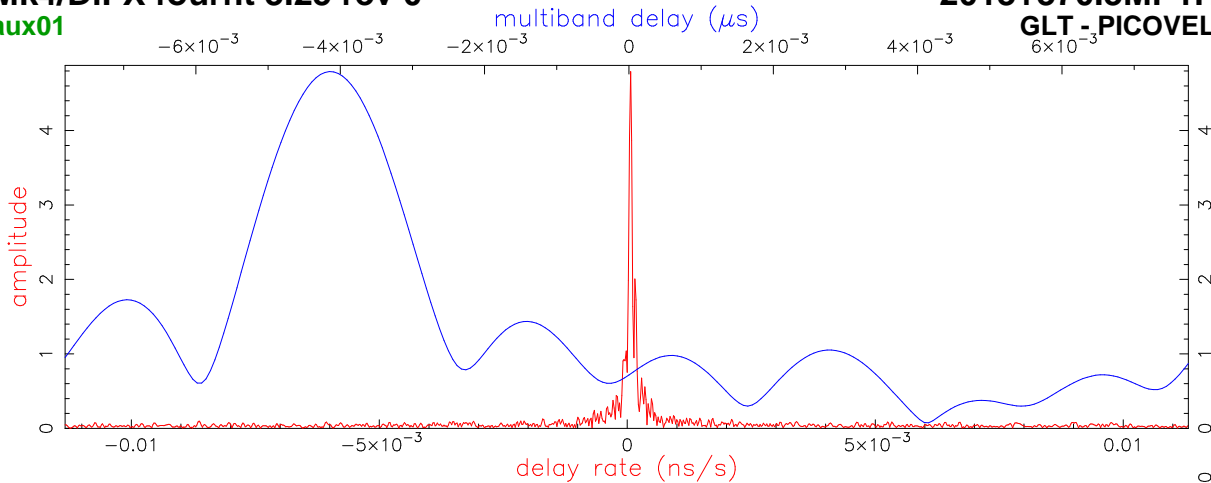
ph/seg (deg) 11.0 8.9 Search (1024X32) 0.785 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 12.9 15.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 12.3 5.4 Inc. seg. avg. 0.827 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 12.5 9.4 Inc. frq. avg. 0.837 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 g: az 63.3 el 32.1 pa -15.2 N: az 94.7 el 63.9 pa -62.8 u,v (fr/asec) 1534.970 5492.410 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gN..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gN.W.46.3MP1H3

Mk4/DiFX fourfit 3.25 rev 0

aux01

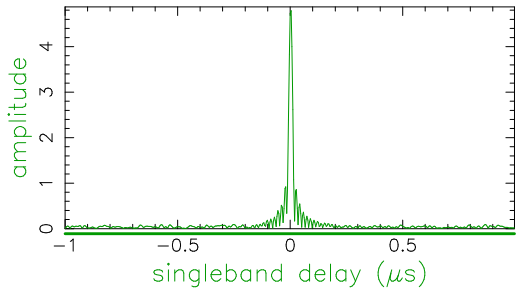
2013+370.3MP1H3, No0250, gP

GLT - PICOVEL, fgroup W, pol LL

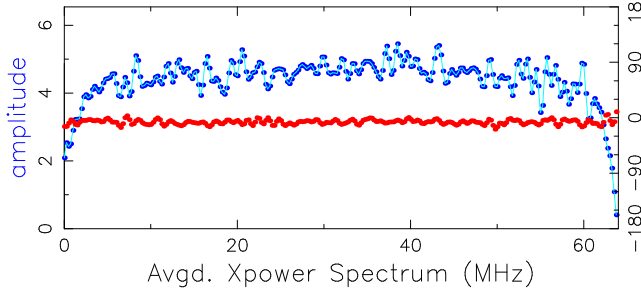


Fringe quality 7

SNR 178.8  
 Int time 179.981  
 Amp 4.875  
 Phase 66.7  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.002224  
 MBD -0.004154  
 Fringe rate (Hz) 0.005419  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512

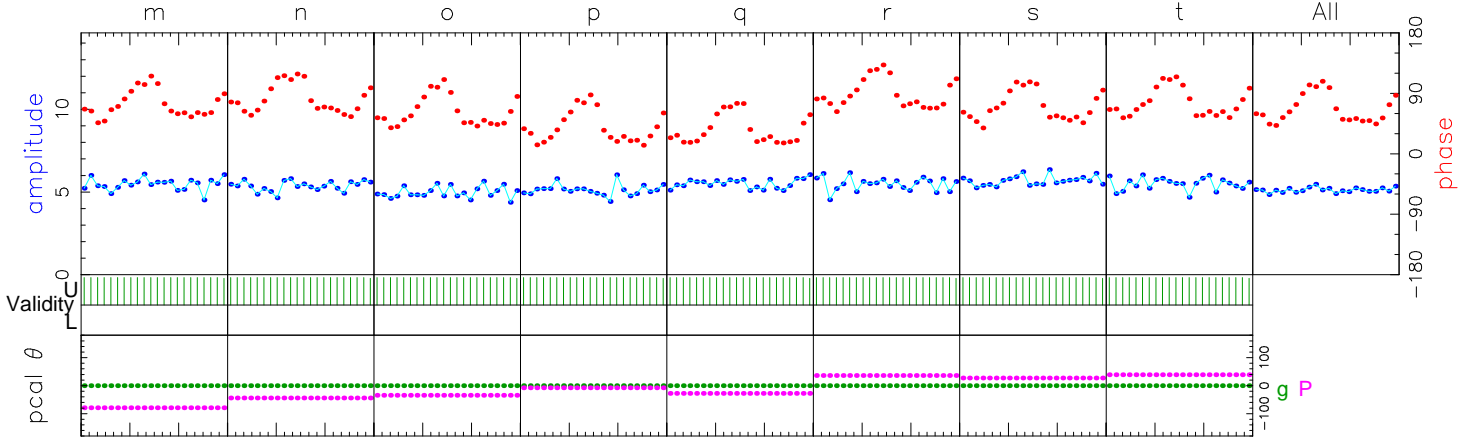


delay rate (ns/s)



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103441  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
g:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:P	0:-79	0:-44	0:-34	0:-8	0:-28	0:36	0:27	0:39		
g	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	-6.43916786863E+03	Apriori delay (usec)	-6.43916371472E+03	Resid mbdelay (usec)	-4.15391E-03	+/-	6.1E-06
Sband delay (usec)	-6.43916149072E+03	Apriori clock (usec)	1.3381042E+00	Resid sbdelay (usec)	2.22400E-03	+/-	4.8E-05
Phase delay (usec)	-6.43916371257E+03	Apriori clockrate (us/s)	1.8612390E-07	Resid phdelay (usec)	2.15036E-06	+/-	2.1E-08
Delay rate (us/s)	-3.90760254345E-01	Apriori rate (us/s)	-3.90760317259E-01	Resid rate (us/s)	6.29142E-08	+/-	2.0E-10
Total phase (deg)	-72.2	Apriori accel (us/s/s)	5.95424095830E-05	Resid phase (deg)	66.7	+/-	0.6

ph/seg (deg) 20.8 1.5 Search (1024X32) 4.646 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 5.9 2.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 20.9 0.9 Inc. seg. avg. 5.124 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 5.6 1.6 Inc. frq. avg. 5.036 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 g: az 63.3 el 32.1 pa -15.2 P: az 76.4 el 56.2 pa -77.0 u,v (fr/asec) 2864.704 6149.964 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gP..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gP.W.24.3MP1H3 simultaneous interpolator

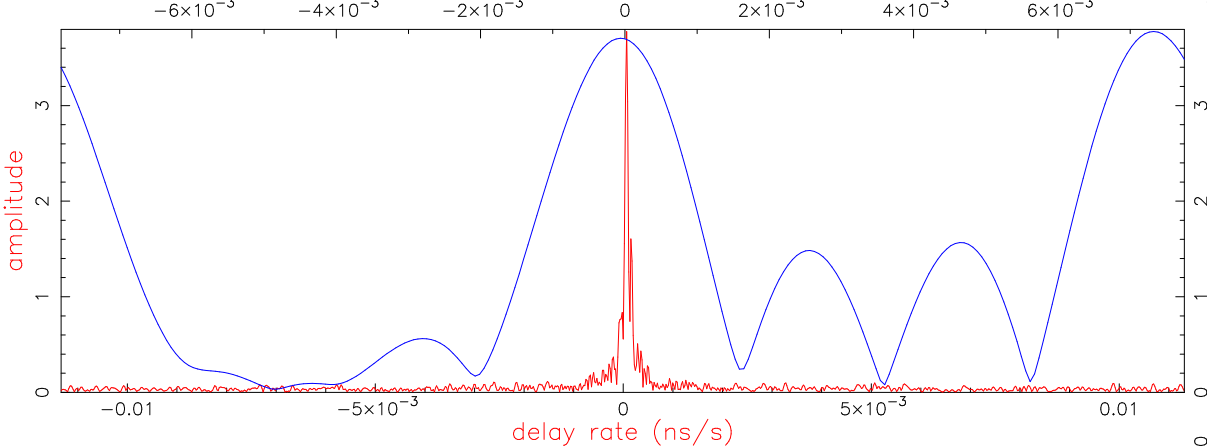
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1H3, No0250, gP

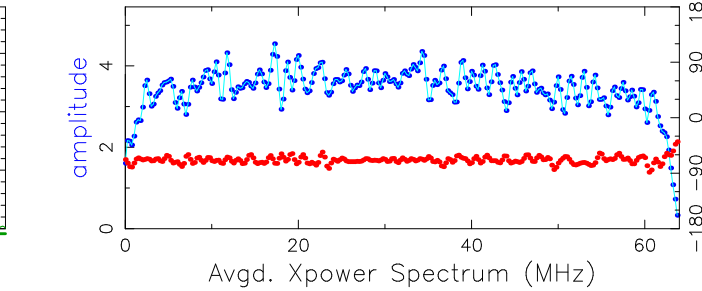
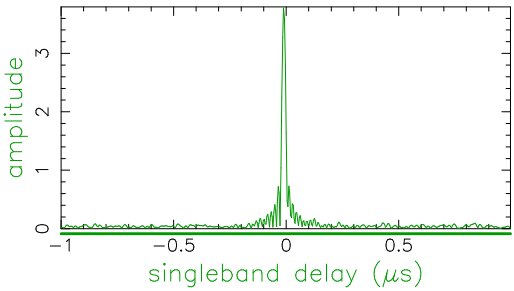
GLT - PICOVEL, fgroup W, pol RR

multiband delay ( $\mu$ s)



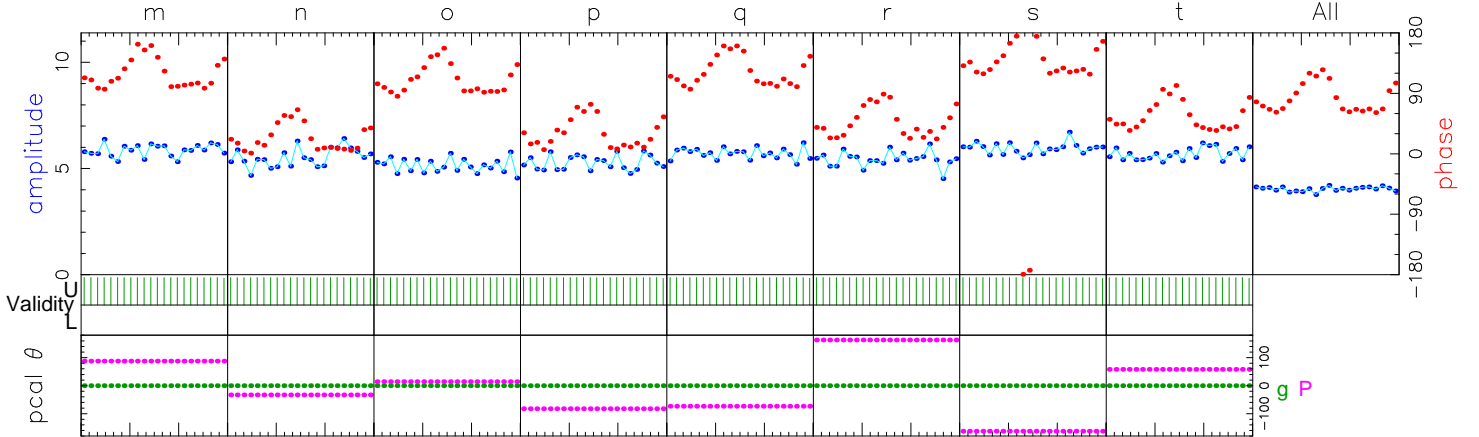
Fringe quality 5

SNR 139.3  
 Int time 179.982  
 Amp 3.797  
 Phase 82.4  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.010751  
 MBD 0.007338  
 Fringe rate (Hz)  
 0.005372  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103443  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
g:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:P	0:88	0:33	0:15	0:82	0:74	0:163	0:163	0:58		
g	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD) -6.43917200191E+03 Apriori delay (usec) -6.43916371472E+03 Resid mbdelay (usec) 7.33781E-03 +/- 7.8E-06  
 Sband delay (usec) -6.43917446547E+03 Apriori clock (usec) 1.3381042E+00 Resid sbdelay (usec) -1.07508E-02 +/- 6.2E-05  
 Phase delay (usec) -6.43916371206E+03 Apriori clockrate (us/s) 1.8612390E-07 Resid phdelay (usec) 2.65852E-06 +/- 2.7E-08  
 Delay rate (us/s) -3.90760254893E-01 Apriori rate (us/s) -3.90760317259E-01 Resid rate (us/s) 6.23658E-08 +/- 2.5E-10  
 Total phase (deg) -56.4 Apriori accel (us/s/s) 5.95424095830E-05 Resid phase (deg) 82.4 +/- 0.8

ph/seg (deg) 21.0 1.9 Search (1024X32) 3.746 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 6.9 3.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 50.4 1.2 Inc. seg. avg. 4.037 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 37.6 2.0 Inc. frq. avg. 5.203 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 g: az 63.3 el 32.1 pa -15.2 P: az 76.4 el 56.2 pa -77.0 u,v (fr/asec) 2864.704 6149.964 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gP..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gP.W.38.3MP1H3

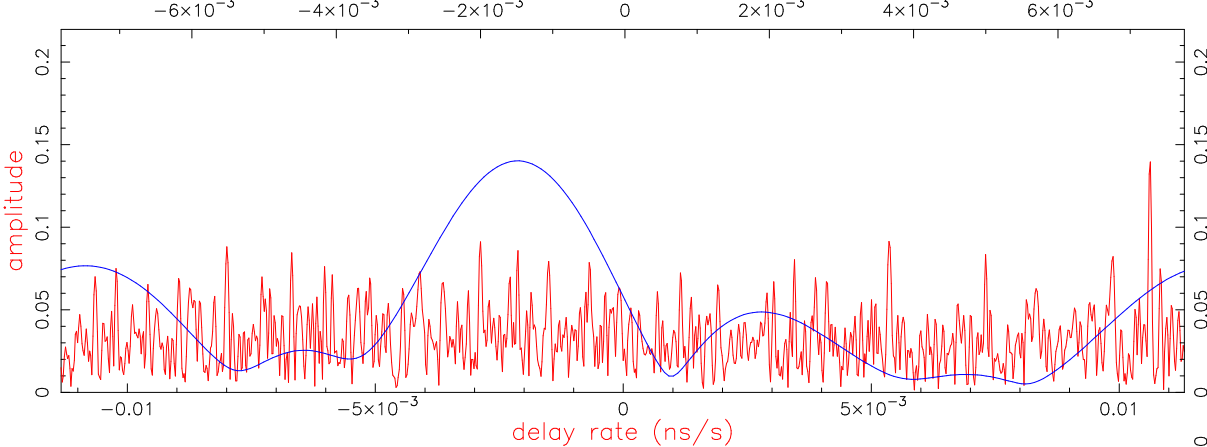
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1H3, No0250, gP

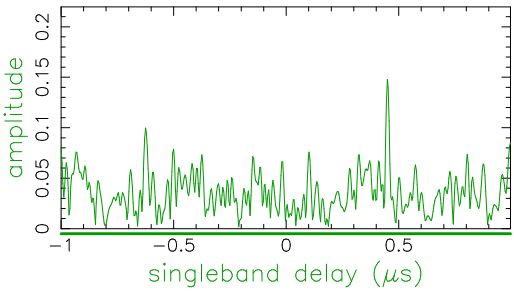
GLT - PICOVEL, fgroup W, pol LR

multiband delay ( $\mu$ s)

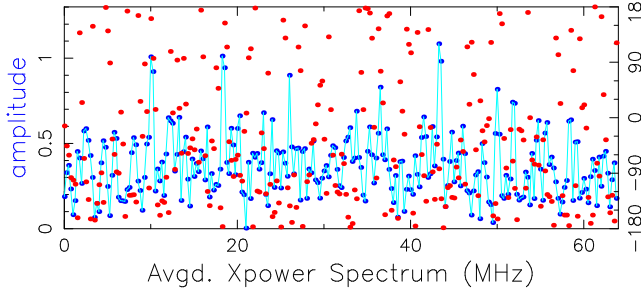


Fringe quality 0

SNR 5.4  
 Int time 179.981  
 Amp 0.220  
 Phase 37.9  
 PFD 1.0e+00  
 Delays (us)  
 SBD 0.450047  
 MBD -0.001611  
 Fringe rate (Hz)  
 0.916252  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

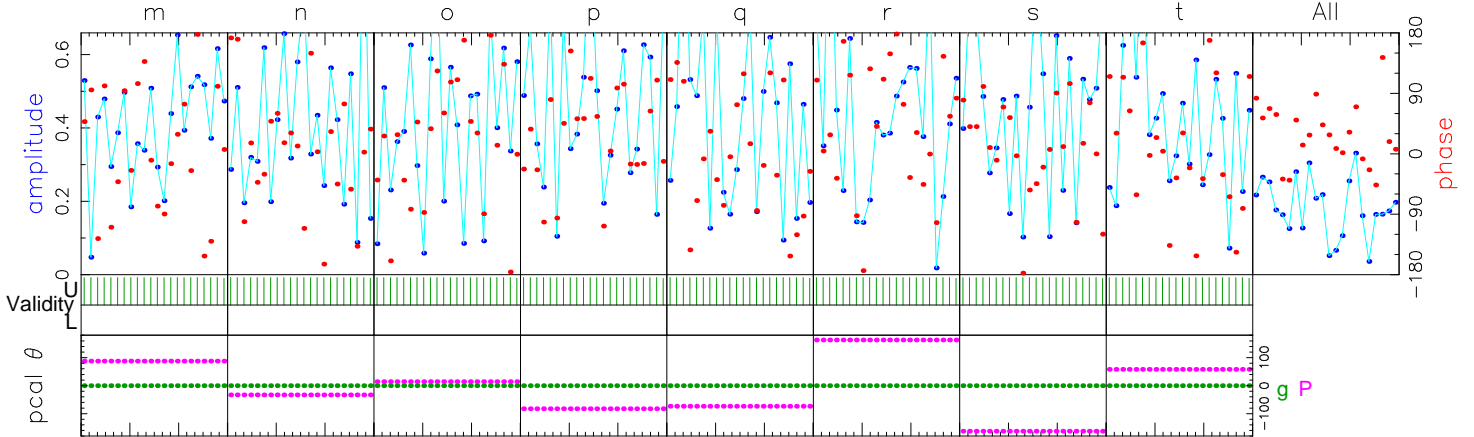


delay rate (ns/s)



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103446  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	38.2	-4.2	68.8	45.7	6.5	56.8	26.1	66.2	Phase	37.9
	0.1	0.3	0.2	0.4	0.1	0.3	0.4	0.1	Ampl.	0.2
	148.3	283.3	185.6	372.8	15.6	469.0	371.5	464.7	Sbd box	372.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
P/g	0	0	0	0	0	0	0	0	PC freqs	
g:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:P	0:88	0:33	0:15	0:82	0:74	0:163	0:163	0:58	Mani PC	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-6.43871220073E+03	Apriori delay (usec)	-6.43916371472E+03	Resid mbdelay (usec)	-1.61101E-03	+/-	2.0E-04
Sband delay (usec)	-6.43871366722E+03	Apriori clock (usec)	1.3381042E+00	Resid sbdelay (usec)	4.50047E-01	+/-	1.6E-03
Phase delay (usec)	-6.43916371350E+03	Apriori clockrate (us/s)	1.8612390E-07	Resid phdelay (usec)	1.22081E-06	+/-	6.8E-07
Delay rate (us/s)	-3.90749680486E-01	Apriori rate (us/s)	-3.90760317259E-01	Resid rate (us/s)	1.06368E-05	+/-	6.5E-09
Total phase (deg)	-101.0	Apriori accel (us/s/s)	5.95424095830E-05	Resid phase (deg)	37.9	+/-	21.0

ph/seg (deg)	46.5	Theor.	49.4	Amplitude	0.220 +/- 0.040	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	57.7	Search (1024X32)	0.141	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	29.0	Inc. seg. avg.	0.199	Inc. frq. avg.	0.198	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	53.6	Inc. frq. avg.	0.198			Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
						Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

g: az 63.3 el 32.1 pa -15.2 P: az 76.4 el 56.2 pa -77.0 u,v (fr/asec) 2864.704 6149.964 simultaneous interpolator

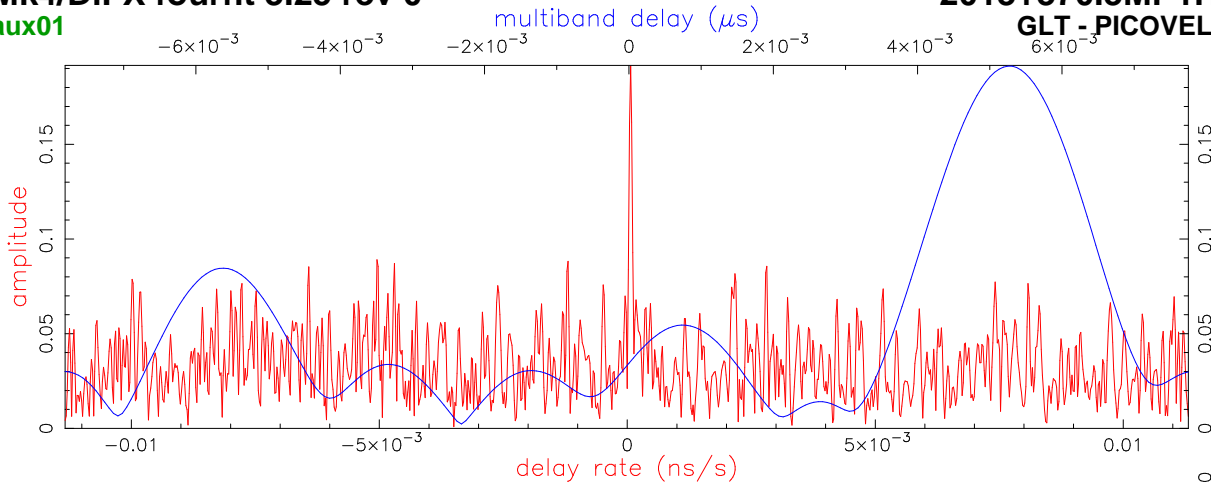
Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gP..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gP.W.48.3MP1H3

Mk4/DiFX fourfit 3.25 rev 0

aux01

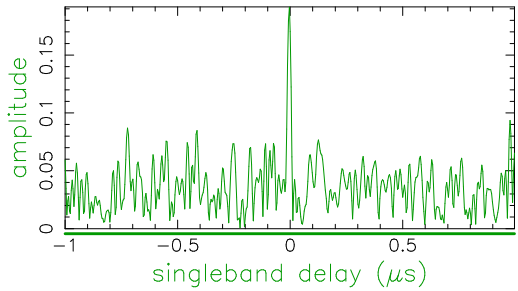
2013+370.3MP1H3, No0250, gP

GLT - PICOVEL, fgroup W, pol RL

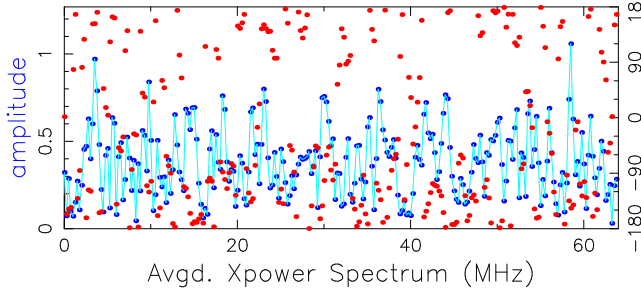


Fringe quality 0

SNR 7.0  
 Int time 179.982  
 Amp 0.192  
 Phase 93.1  
 PFD 3.1e-04  
 Delays (us)  
 SBD -0.004459  
 MBD 0.005263  
 Fringe rate (Hz) 0.005522  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512

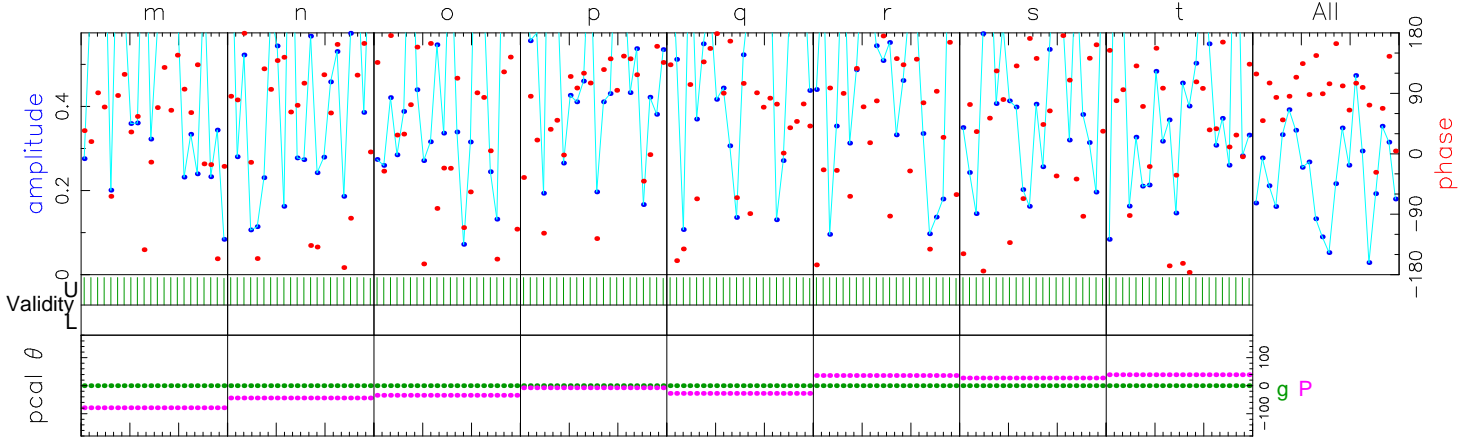


delay rate (ns/s)



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103448  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
g:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:P	0:-79	0:-44	0:-34	0:-8	0:-28	0:36	0:27	0:39		
P	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD) -6.43917407632E+03 Apriori delay (usec) -6.43916371472E+03 Resid mbdelay (usec) 5.26340E-03 +/- 1.5E-04  
 Sband delay (usec) -6.43916817397E+03 Apriori clock (usec) 1.3381042E+00 Resid sbdelay (usec) -4.45925E-03 +/- 1.2E-03  
 Phase delay (usec) -6.43916371171E+03 Apriori clockrate (us/s) 1.8612390E-07 Resid phdelay (usec) 3.00298E-06 +/- 5.3E-07  
 Delay rate (us/s) -3.90760253150E-01 Apriori rate (us/s) -3.90760317259E-01 Resid rate (us/s) 6.41089E-08 +/- 5.1E-09  
 Total phase (deg) -45.7 Apriori accel (us/s/s) 5.95424095830E-05 Resid phase (deg) 93.1 +/- 16.3

RMS Theor. Amplitude 0.192 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 43.6 38.2 Search (1024X32) 0.190 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 63.3 66.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 10.9 23.0 Inc. seg. avg. 0.199 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 amp/frq (%) 37.8 40.2 Inc. frq. avg. 0.180 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 g: az 63.3 el 32.1 pa -15.2 P: az 76.4 el 56.2 pa -77.0 u,v (fr/asec) 2864.704 6149.964 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gP..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gP.W.53.3MP1H3

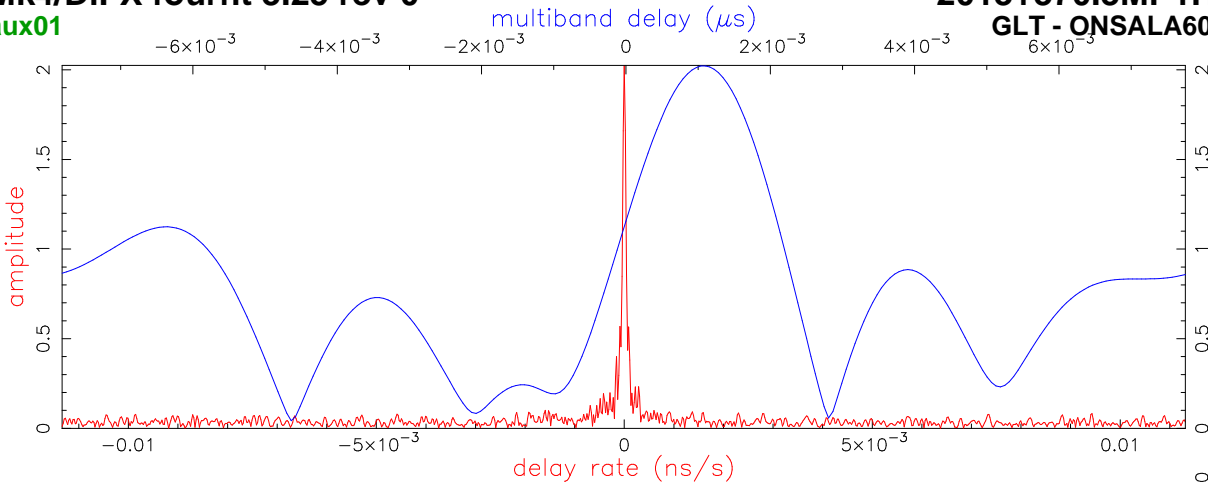


Mk4/DiFX fourfit 3.25 rev 0

aux01

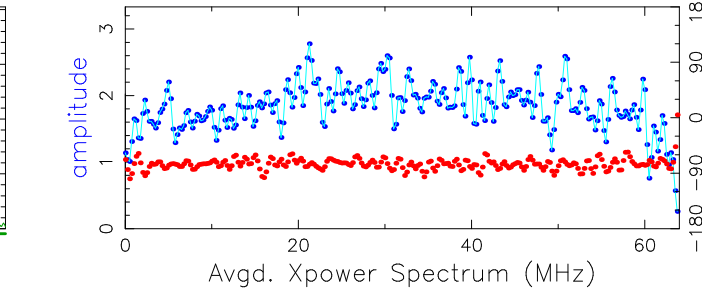
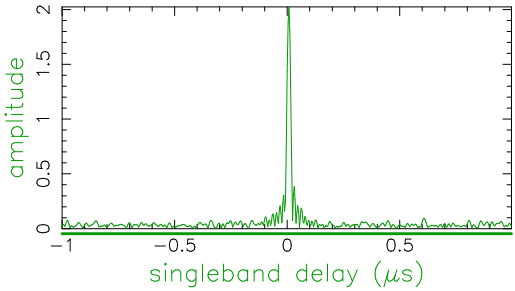
2013+370.3MP1H3, No0250, gX

GLT - ONSALA60, fgroup W, pol LL



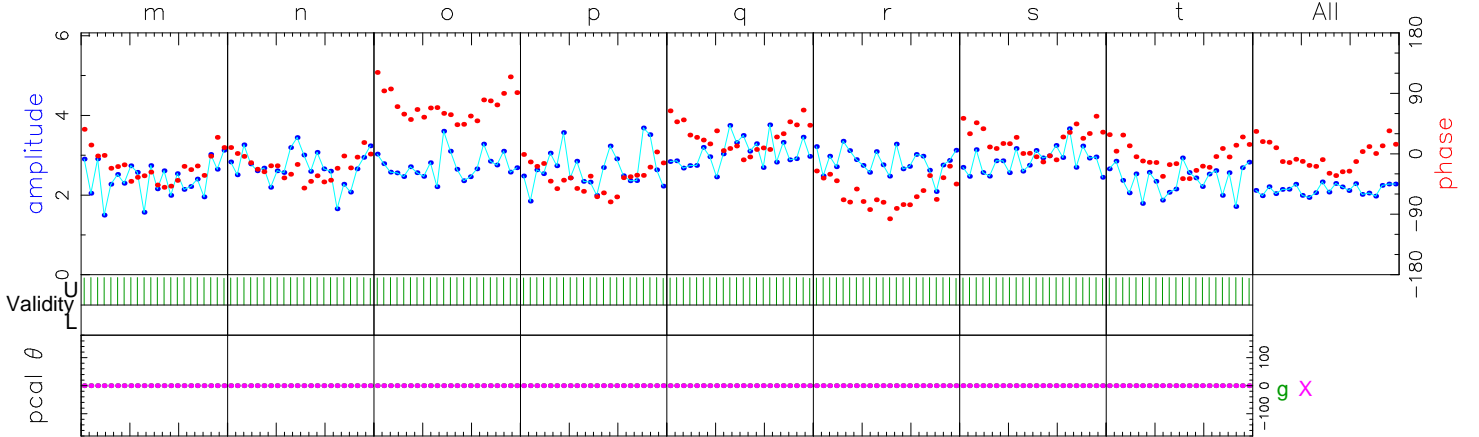
Fringe quality 5

SNR 74.3  
 Int time 179.863  
 Amp 2.025  
 Phase -3.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.007355  
 MBD 0.001065  
 Fringe rate (Hz) 0.000431  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103442  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-17.3	-18.7	72.2	-36.0	24.7	-57.5	20.4	-5.4	Phase	-3.0
	2.2	2.6	2.6	2.5	2.9	2.7	2.7	2.2	Ampl.	2.5
	260.1	258.7	258.3	258.1	258.4	258.3	258.6	259.2	Sbd box	258.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
g:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-7.78046842015E+03	Apriori delay (usec)	-7.78046948565E+03	Resid mbdelay (usec)	1.06550E-03	+/-	1.5E-05
Sband delay (usec)	-7.78046213040E+03	Apriori clock (usec)	-1.1244512E+02	Resid sbdelay (usec)	7.35525E-03	+/-	1.2E-04
Phase delay (usec)	-7.78046948575E+03	Apriori clockrate (us/s)	-4.3226208E-07	Resid phdelay (usec)	-9.53989E-08	+/-	5.0E-08
Delay rate (us/s)	-2.88520620452E-02	Apriori rate (us/s)	-2.88520670433E-02	Resid rate (us/s)	4.99817E-09	+/-	4.8E-10
Total phase (deg)		Apriori accel (us/s/s)	4.96983998009E-05	Resid phase (deg)	-3.0	+/-	1.5

ph/seg (deg) 19.0 3.6 Search (1024X32) 1.993 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 8.2 6.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 43.7 2.2 Inc. seg. avg. 2.134 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 27.5 3.8 Inc. frq. avg. 2.538 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 g: az 63.3 el 32.1 pa -15.2 X: az 126.2 el 62.9 pa -32.8 u, v (fr/asec) 249.088 3888.264 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gX..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gX.W.28.3MP1H3

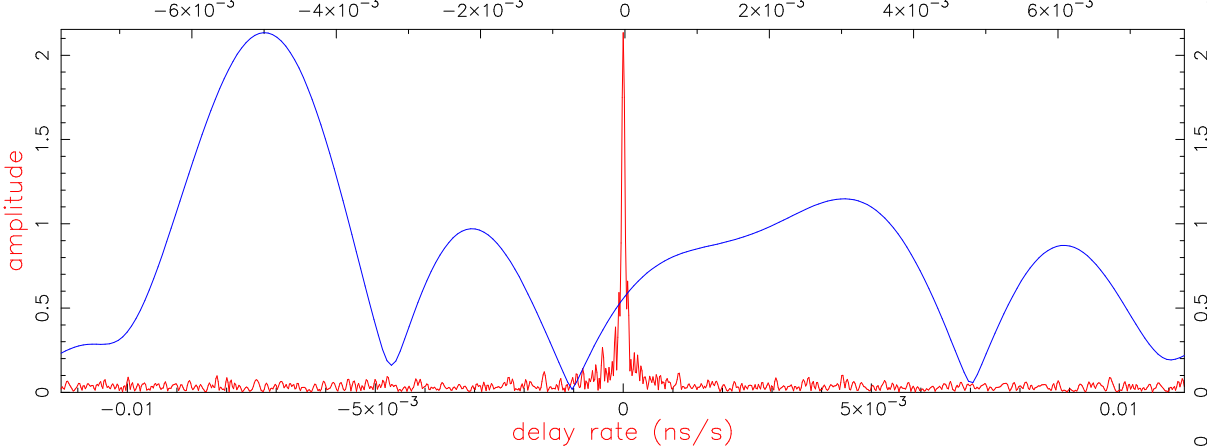
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1H3, No0250, gX

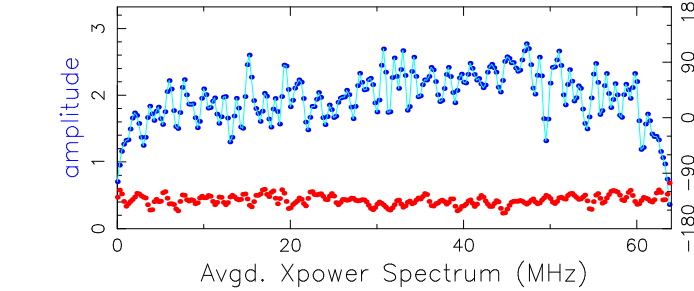
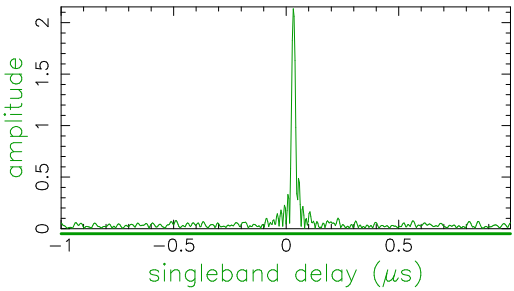
GLT - ONSALA60, fgroup W, pol RR

multiband delay ( $\mu\text{s}$ )



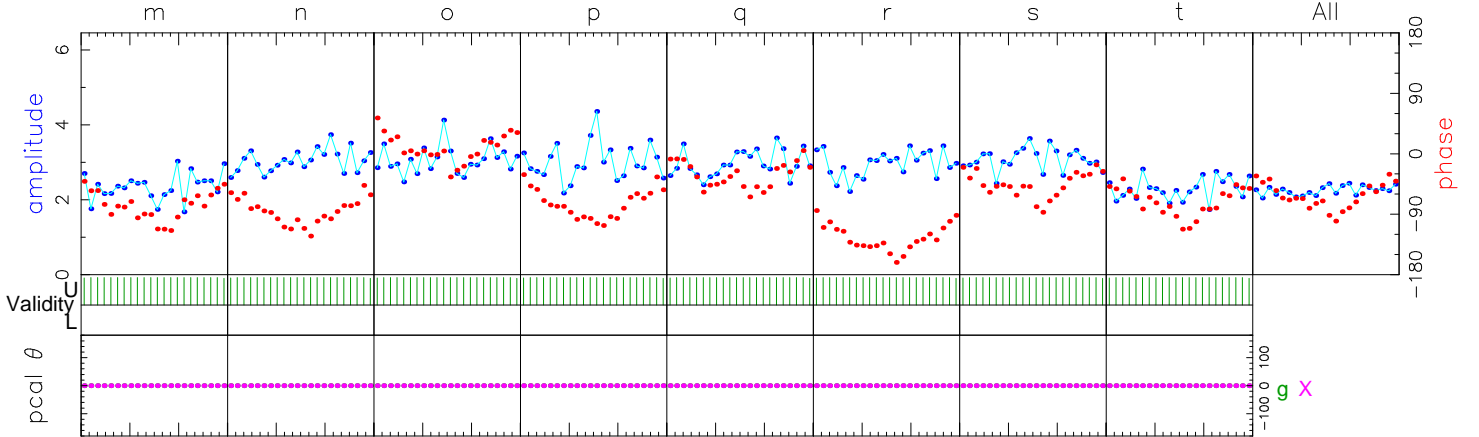
Fringe quality 5

SNR 79.0  
 Int time 179.864  
 Amp 2.153  
 Phase -62.4  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.032492  
 MBD -0.004962  
 Fringe rate (Hz)  
 0.000387  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103444  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-76.1	-85.8	9.7	-74.6	-30.7	-124.6	-45.8	-71.2	Phase	-62.4
	2.2	2.9	2.9	2.8	2.8	2.8	2.9	2.2	Ampl.	2.7
	266.2	265.3	264.9	264.6	264.6	264.8	265.1	266.0	Sbd box	265.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
g:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-7.78044319743E+03	Apriori delay (usec)	-7.78046948565E+03	Resid mbdelay (usec)	-4.96178E-03	+/-	1.4E-05
Sband delay (usec)	-7.78043699390E+03	Apriori clock (usec)	-1.1244512E+02	Resid sbdelay (usec)	3.24918E-02	+/-	1.1E-04
Phase delay (usec)	-7.78046948766E+03	Apriori clockrate (us/s)	-4.3226208E-07	Resid phdelay (usec)	-2.01285E-06	+/-	4.7E-08
Delay rate (us/s)	-2.88520625511E-02	Apriori rate (us/s)	-2.88520670433E-02	Resid rate (us/s)	4.49226E-09	+/-	4.5E-10
Total phase (deg)	-240.2	Apriori accel (us/s/s)	4.96983998009E-05	Resid phase (deg)	-62.4	+/-	1.5

ph/seg (deg) 18.8 3.4 Search (1024X32) 2.106 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 7.2 5.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 43.4 2.1 Inc. seg. avg. 2.250 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 28.3 3.6 Inc. frq. avg. 2.685 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 g: az 63.3 el 32.1 pa -15.2 X: az 126.2 el 62.9 pa -32.8 u,v (fr/asec) 249.088 3888.264 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gX..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gX.W.39.3MP1H3

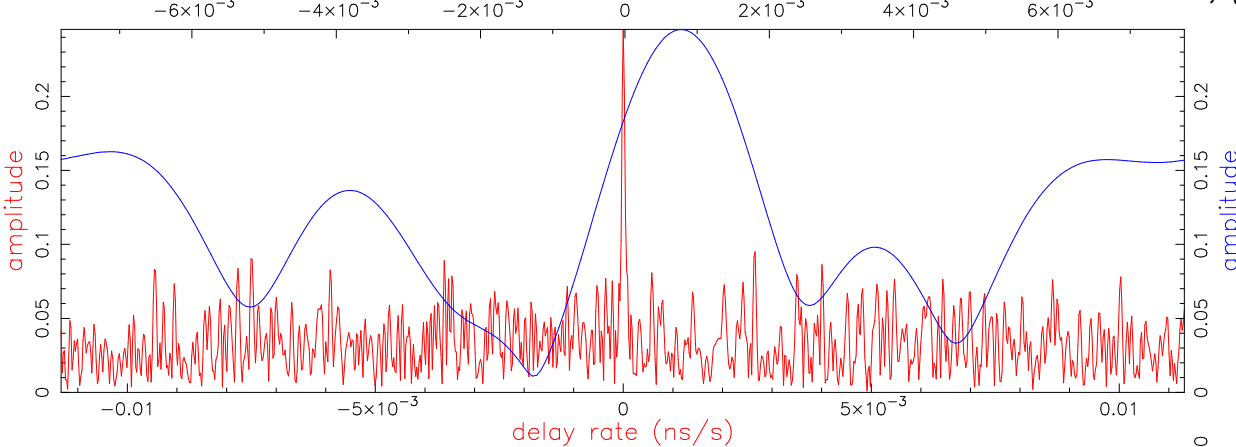
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1H3, No0250, gX

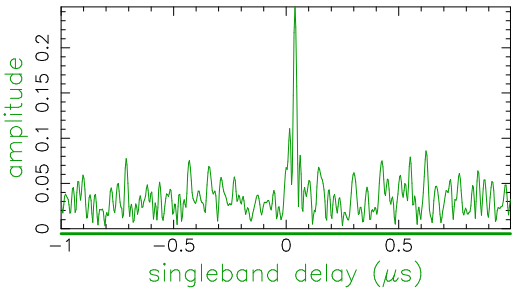
GLT - ONSALA60, fgroup W, pol LR

multiband delay ( $\mu$ s)

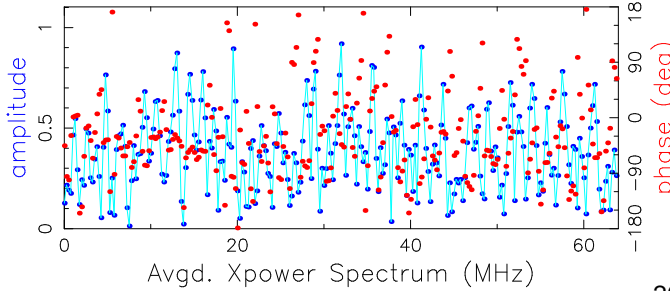


Fringe quality 9

SNR 9.0  
 Int time 179.863  
 Amp 0.245  
 Phase 39.5  
 PFD 4.5e-11  
 Delays (us)  
 SBD 0.039294  
 MBD 0.000782  
 Fringe rate (Hz) 0.000415  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512

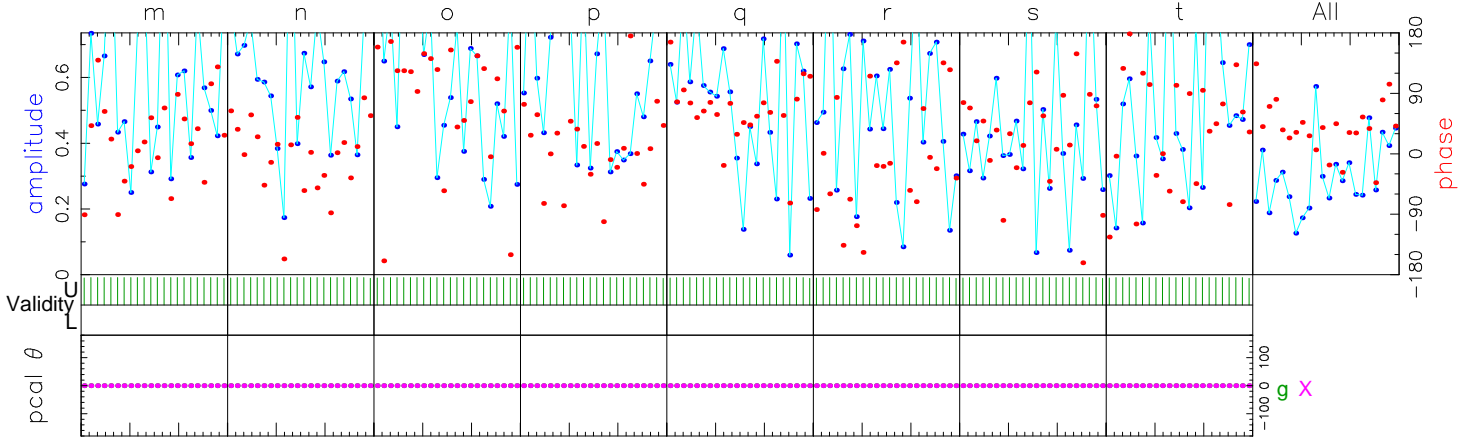


delay rate (ns/s)



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103446  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
g	0	0	0	0	0	0	0	0		
X	0	0	0	0	0	0	0	0		
g:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	-7.78043745337E+03	Apriori delay (usec)	-7.78046948565E+03	Resid mbdelay (usec)	7.82281E-04	+/-	1.2E-04
Sband delay (usec)	-7.78043019140E+03	Apriori clock (usec)	-1.1244512E+02	Resid sbdelay (usec)	3.92943E-02	+/-	9.6E-04
Phase delay (usec)	-7.78046948438E+03	Apriori clockrate (us/s)	-4.3226208E-07	Resid phdelay (usec)	1.27341E-06	+/-	4.1E-07
Delay rate (us/s)	-2.88520622266E-02	Apriori rate (us/s)	-2.88520670433E-02	Resid rate (us/s)	4.81677E-09	+/-	3.9E-09
Total phase (deg)	-138.3	Apriori accel (us/s/s)	4.96983998009E-05	Resid phase (deg)	39.5	+/-	12.7

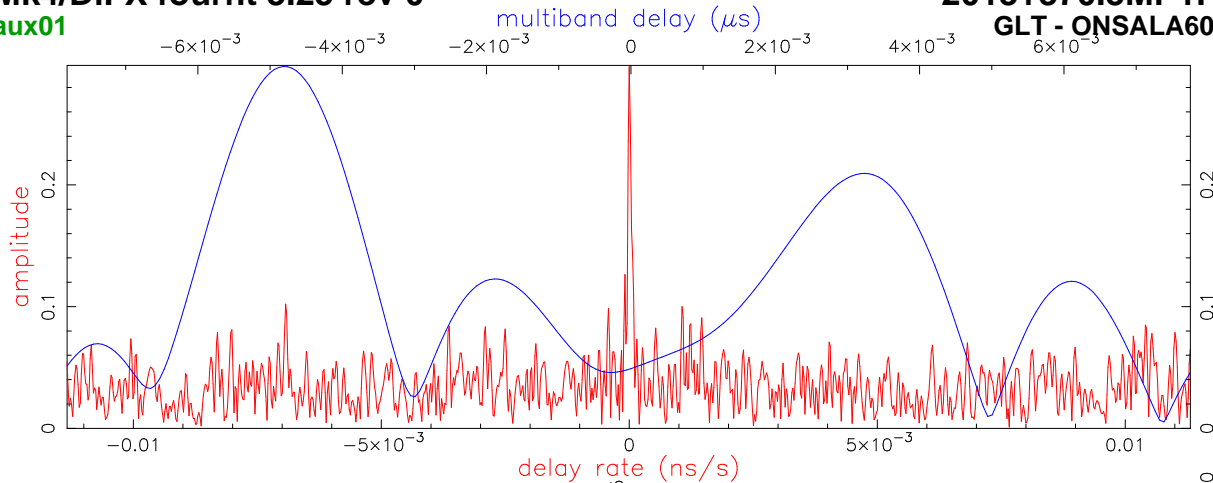
ph/seg (deg)	39.2	Theor.	39.2	Amplitude	0.245 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	49.9		52.1	Search (1024X32)	0.240	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	55.8		18.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	59.1		31.4	Inc. seg. avg.	0.268	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.332	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00
g: az 63.3 el 32.1 pa -15.2		X: az 126.2 el 62.9 pa -32.8		u, v (fr/asec)	249.088 3888.264				simultaneous interpolator	
Control file: cf_1234_gmva		Input file: /Exps/c241c/v2/3mm/1234/No0250/gX..3MP1H3		Output file: /Exps/c241c/v2/3mm/1234/No0250/gX.W.44.3MP1H3						

Mk4/DiFX fourfit 3.25 rev 0

aux01

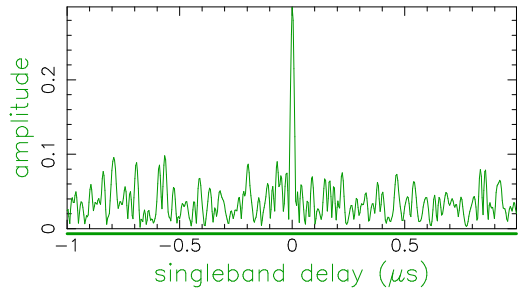
2013+370.3MP1H3, No0250, gX

GLT - ONSALA60, fgroup W, pol RL

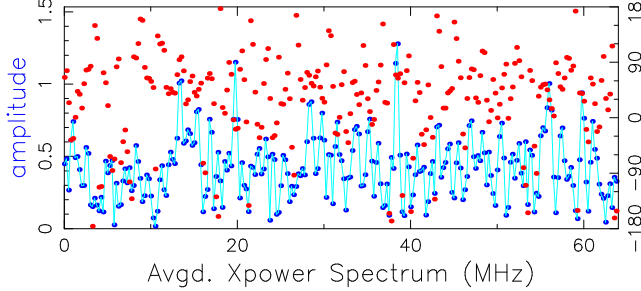


Fringe quality 9

SNR 10.9  
 Int time 179.864  
 Amp 0.298  
 Phase 112.9  
 PFD 1.8e-19  
 Delays (us)  
 SBD 0.000705  
 MBD -0.004781  
 Fringe rate (Hz) 0.000634  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512

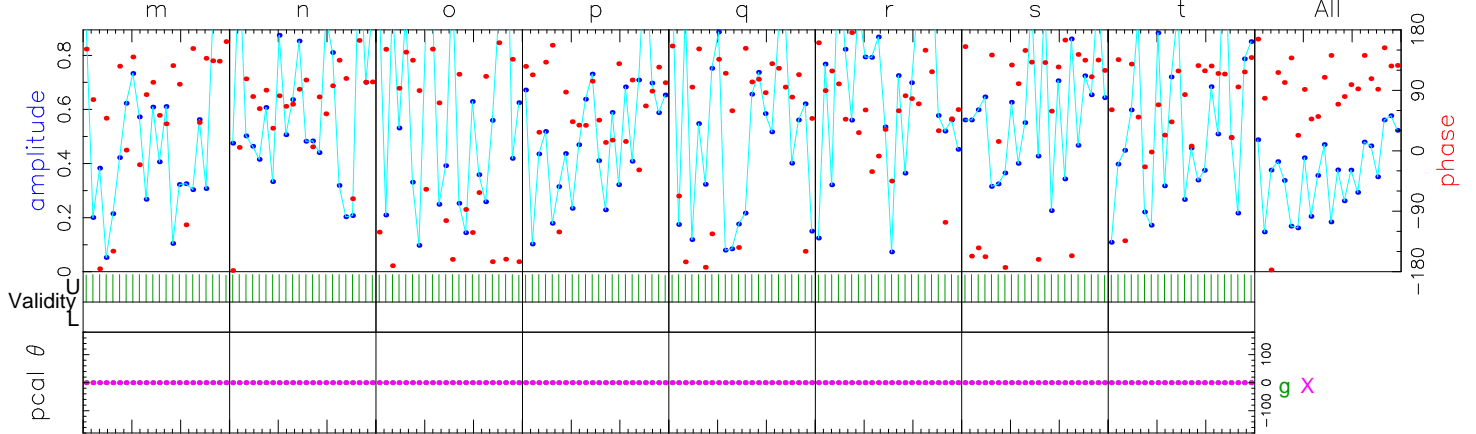


delay rate (ns/s)



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103449  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
g	0	0	0	0	0	0	0	0		
X	0	0	0	0	0	0	0	0		
g:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks

Group delay (usec) (SBD)	-7.78047426615E+03	Apriori delay (usec)	-7.78046948565E+03	Resid mbdelay (usec)	-4.78050E-03	+/-	9.9E-05
Sband delay (usec)	-7.78046878115E+03	Apriori clock (usec)	-1.1244512E+02	Resid sbdelay (usec)	7.04500E-04	+/-	7.9E-04
Phase delay (usec)	-7.78046948201E+03	Apriori clockrate (us/s)	-4.3226208E-07	Resid phdelay (usec)	3.64195E-06	+/-	3.4E-07
Delay rate (us/s)	-2.88520596786E-02	Apriori rate (us/s)	-2.88520670433E-02	Resid rate (us/s)	7.36475E-09	+/-	3.2E-09
Total phase (deg)	-64.9	Apriori accel (us/s/s)	4.96983998009E-05	Resid phase (deg)	112.9	+/-	10.5

ph/seg (deg) 39.4 24.6 Search (1024X32) 0.289 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 48.3 42.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 44.8 14.8 Inc. seg. avg. 0.332 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 33.8 25.9 Inc. frq. avg. 0.368 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 g: az 63.3 el 32.1 pa -15.2 X: az 126.2 el 62.9 pa -32.8 u, v (fr/asec) 249.088 3888.264 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gX...3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gX.W.58.3MP1H3

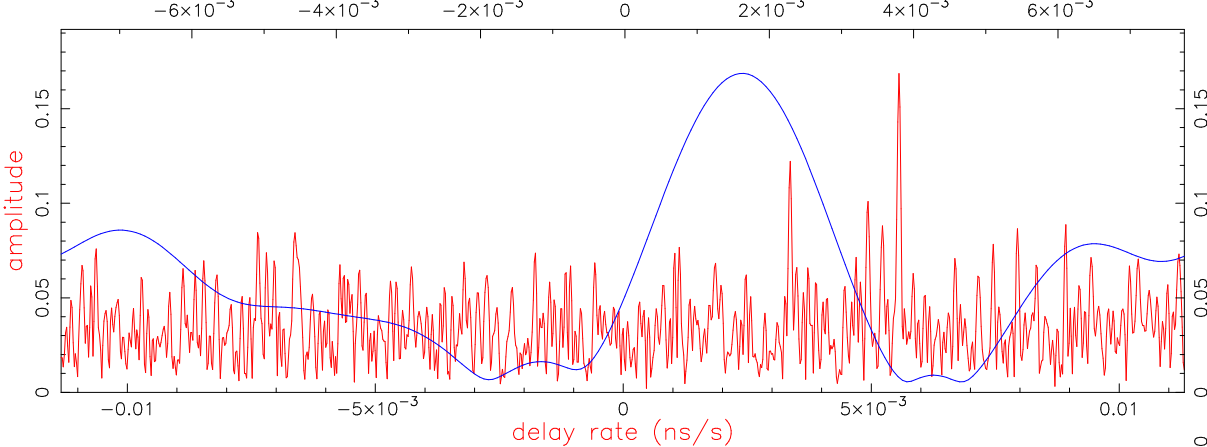
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1H3, No0250, gY

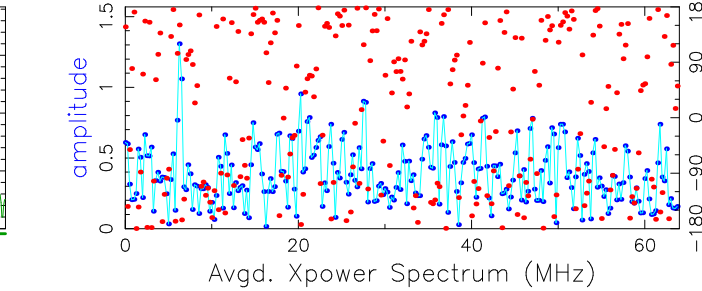
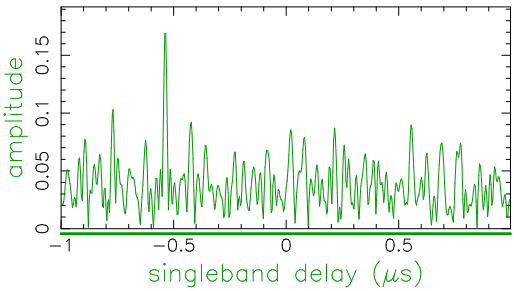
GLT - YEBES40M, fgroup W, pol LR

multiband delay ( $\mu$ s)



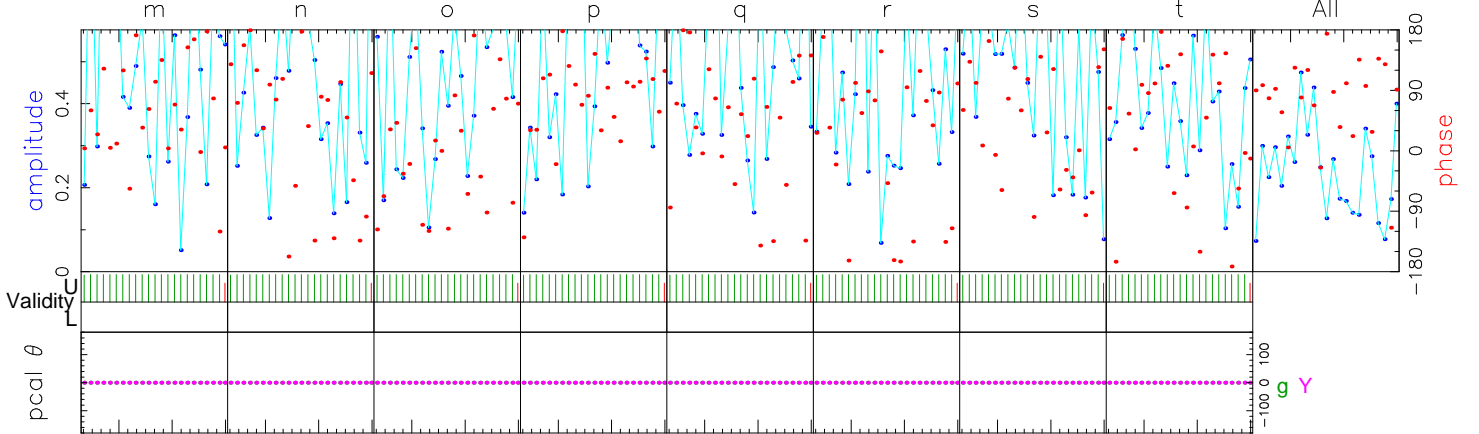
Fringe quality 0

SNR 6.0  
 Int time 162.285  
 Amp 0.192  
 Phase 80.6  
 PFD 1.8e-01  
 Delays (us)  
 SBD -0.537134  
 MBD 0.001666  
 Fringe rate (Hz)  
 0.480044  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034017.41  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103458  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 23 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0		
g	0	0	0	0	0	0	0	0		
Y	0	0	0	0	0	0	0	0		
g:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	-6.50342388121E+03	Apriori delay (usec)	-6.50289429743E+03	Resid mbdelay (usec)	1.66622E-03	+/-	1.8E-04
Sband delay (usec)	-6.50343143118E+03	Apriori clock (usec)	1.1105260E+02	Resid sbdelay (usec)	-5.37134E-01	+/-	1.4E-03
Phase delay (usec)	-6.50289429483E+03	Apriori clockrate (us/s)	2.2401300E-06	Resid phdelay (usec)	2.59849E-06	+/-	6.1E-07
Delay rate (us/s)	-3.55431147608E-01	Apriori rate (us/s)	-3.55436720447E-01	Resid rate (us/s)	5.57284E-06	+/-	6.5E-09
Total phase (deg)	-200.5	Apriori accel (us/s/s)	5.72644184237E-05	Resid phase (deg)	80.6	+/-	19.0

ph/seg (deg)	57.5	Theor.	45.5	Amplitude	0.192 +/- 0.032	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	73.0	Search (1024X32)	0.164	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
ph/frq (deg)	34.5	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	57.9	Inc. seg. avg.	0.202	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	0.183	Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

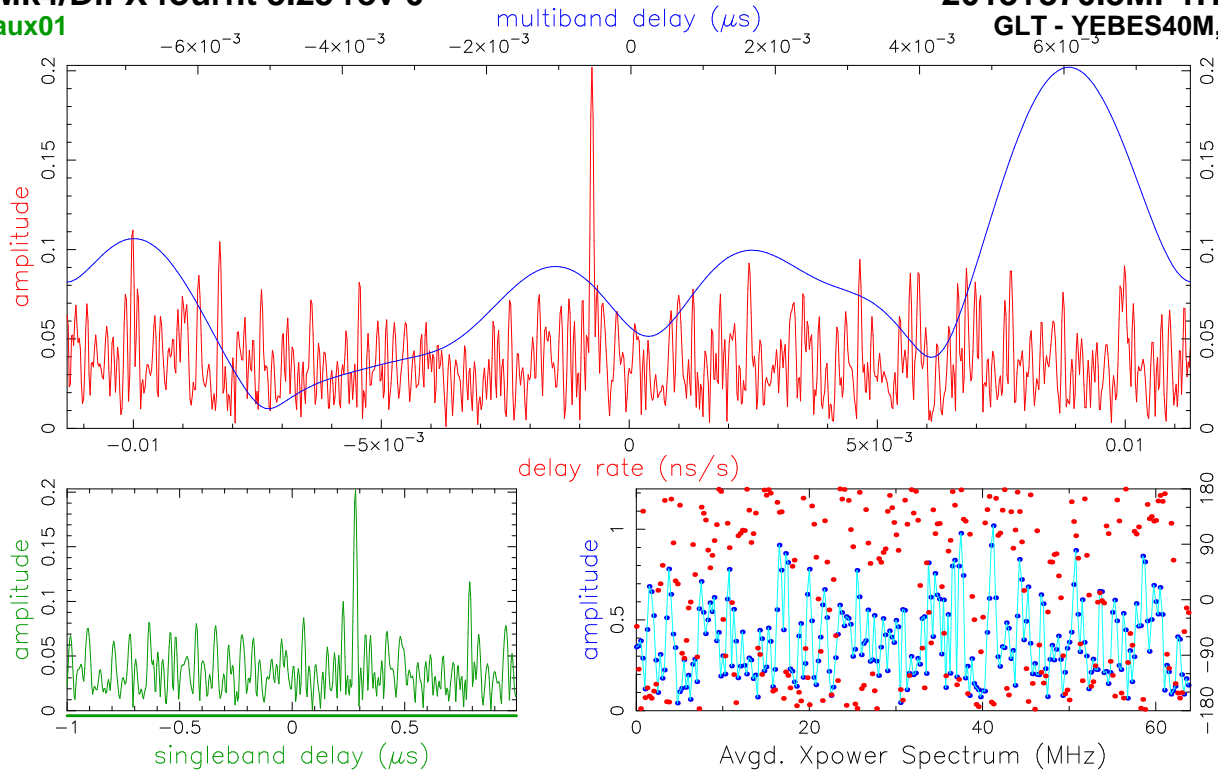
g: az 63.3 el 32.1 pa -15.2 Y: az 81.7 el 57.1 pa -70.9 u,v (fr/asec) 2607.975 5685.078 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gY..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gY.W.103.3MP1H3

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1H3, No0250, gY

GLT - YEBES40M, fgroup W, pol RL

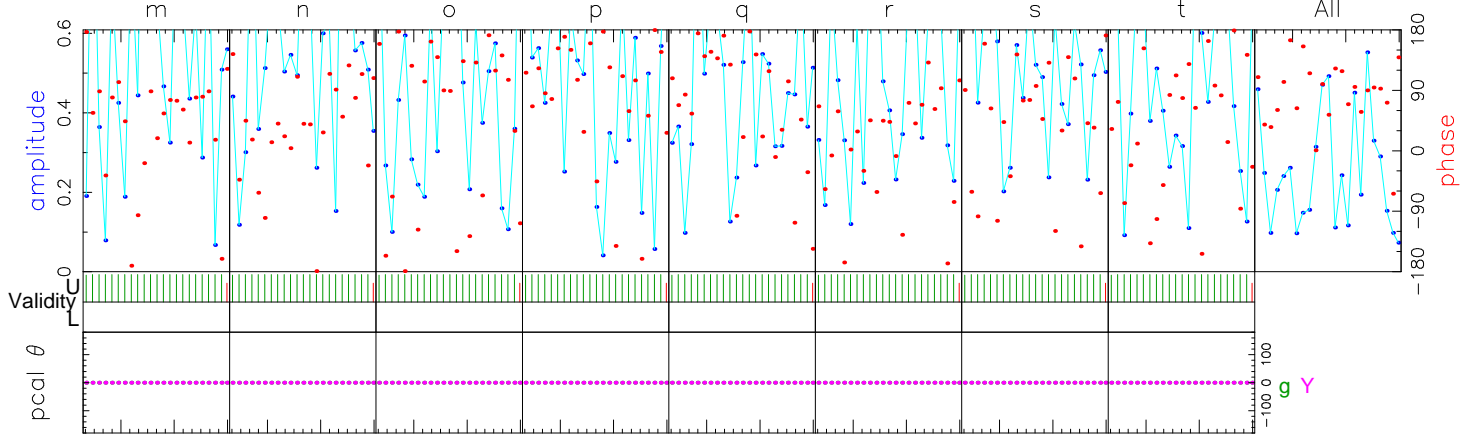


Fringe quality 0

SNR 7.1  
 Int time 162.285  
 Amp 0.203  
 Phase 87.0  
 PFD 2.5e-04  
 Delays (us)  
 SBD 0.280495  
 MBD 0.006039  
 Fringe rate (Hz)  
 -0.065267  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034017.41  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103501  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 23 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



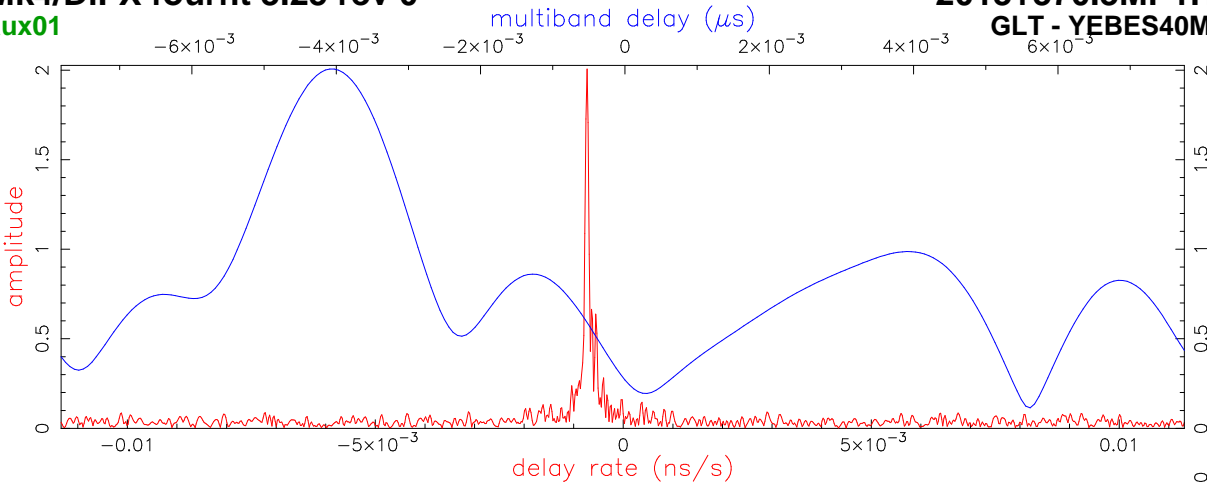
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	69.4	50.3	155.0	111.1	122.9	47.8	91.0	70.8	Phase	87.0
	0.3	0.3	0.3	0.3	0.2	0.3	0.1	0.1	Ampl.	0.2
	329.6	328.6	327.8	329.2	313.8	251.1	358.9	408.9	Sbd box	328.8
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
g:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	-6.50260700833E+03					-6.50289429743E+03			Resid mbdelay (usec)	6.03910E-03 +/- 1.5E-04
Sband delay (usec)	-6.50261380268E+03					1.1105260E+02			Resid sbdelay (usec)	2.80495E-01 +/- 1.2E-03
Phase delay (usec)	-6.50289429463E+03					2.2401300E-02			Resid phdelay (usec)	2.80608E-06 +/- 5.2E-07
Delay rate (us/s)	-3.55437478127E-01					-3.55436720447E-01			Resid rate (us/s)	-7.57680E-07 +/- 5.6E-09
Total phase (deg)			-194.1			5.72644184237E-05			Resid phase (deg)	87.0 +/- 16.2
	RMS	Theor.	Amplitude	0.203 +/- 0.029					Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	49.5	38.9	Search (1024X32)	0.195					Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	74.6	67.9	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	40.8	23.0	Inc. seg. avg.	0.207					Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.011 0.011
amp/frq (%)	47.5	40.1	Inc. frq. avg.	0.232					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
g: az 63.3 el 32.1 pa -15.2			Y: az 81.7 el 57.1 pa -70.9			u, v (fr/asec) 2607.975 5685.078				ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva			Input file: /Exps/c241c/v2/3mm/1234/No0250/gY..3MP1H3			Output file: /Exps/c241c/v2/3mm/1234/No0250/gY.W.109.3MP1H3				simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

aux01

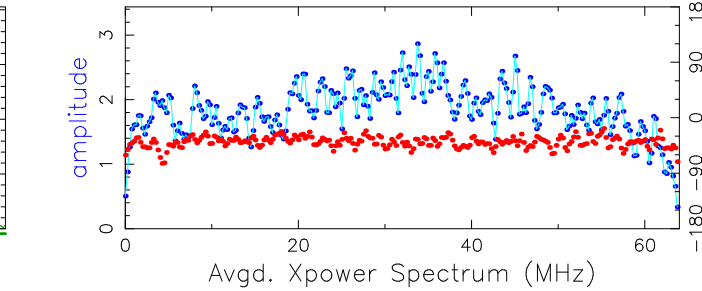
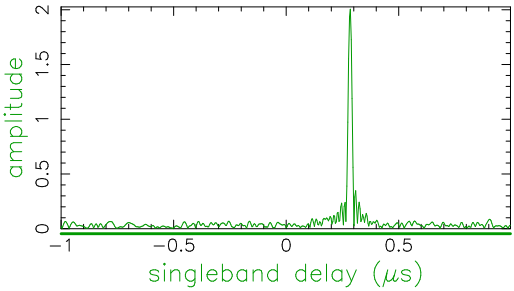
2013+370.3MP1H3, No0250, gY

GLT - YEBES40M, fgroup W, pol LL



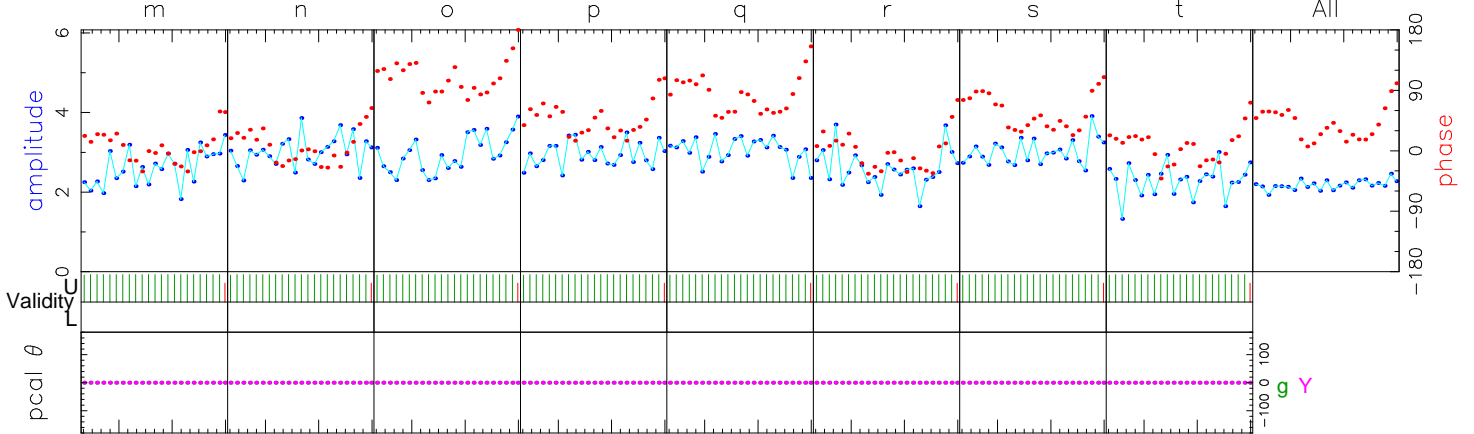
Fringe quality 4

SNR 70.5  
 Int time 162.285  
 Amp 2.026  
 Phase 39.5  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.283950  
 MBD -0.004101  
 Fringe rate (Hz)  
 -0.063948  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034017.41  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103454  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 23 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0		
g	0	0	0	0	0	0	0	0		
Y	0	0	0	0	0	0	0	0		
g:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	-6.50261714811E+03	Apriori delay (usec)	-6.50289429743E+03	Resid mbdelay (usec)	-4.10068E-03	+/-	1.5E-05
Sband delay (usec)	-6.50261034743E+03	Apriori clock (usec)	1.1105260E+02	Resid sbdelay (usec)	2.83950E-01	+/-	1.2E-04
Phase delay (usec)	-6.50289429616E+03	Apriori clockrate (us/s)	2.2401300E-02	Resid phdelay (usec)	1.27230E-06	+/-	5.2E-08
Delay rate (us/s)	-3.55437462824E-01	Apriori rate (us/s)	-3.55436720447E-01	Resid rate (us/s)	-7.42377E-07	+/-	5.6E-10
Total phase (deg)	-241.6	Apriori accel (us/s/s)	5.72644184237E-05	Resid phase (deg)	39.5	+/-	1.6

ph/seg (deg) 23.3 3.9 Search (1024X32) 1.921 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 9.8 6.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 44.9 2.3 Inc. seg. avg. 2.183 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 28.8 4.0 Inc. frq. avg. 2.559 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 g: az 63.3 el 32.1 pa -15.2 Y: az 81.7 el 57.1 pa -70.9 u,v (fr/asec) 2607.975 5685.078 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gY..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gY.W.84.3MP1H3

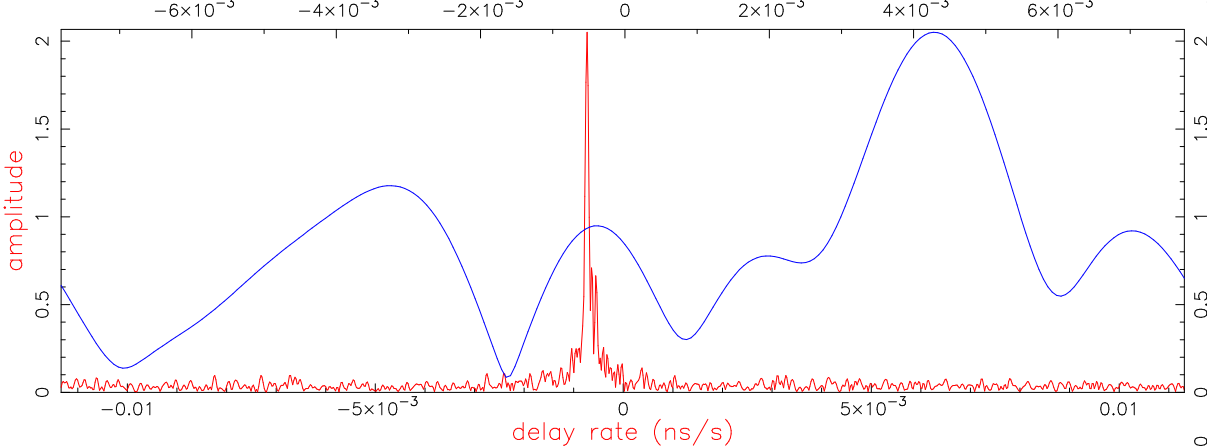
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1H3, No0250, gY

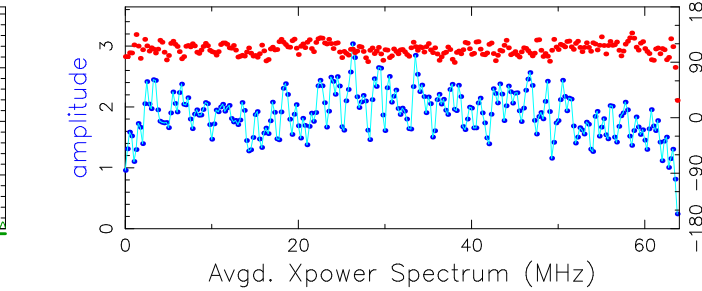
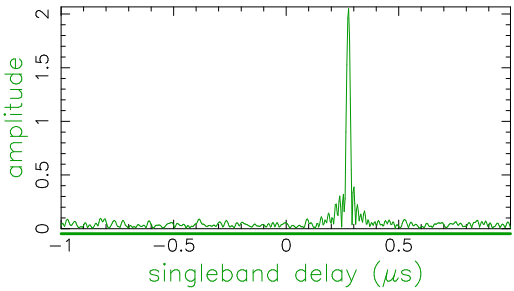
GLT - YEBES40M, fgroup W, pol RR

multiband delay ( $\mu$ s)



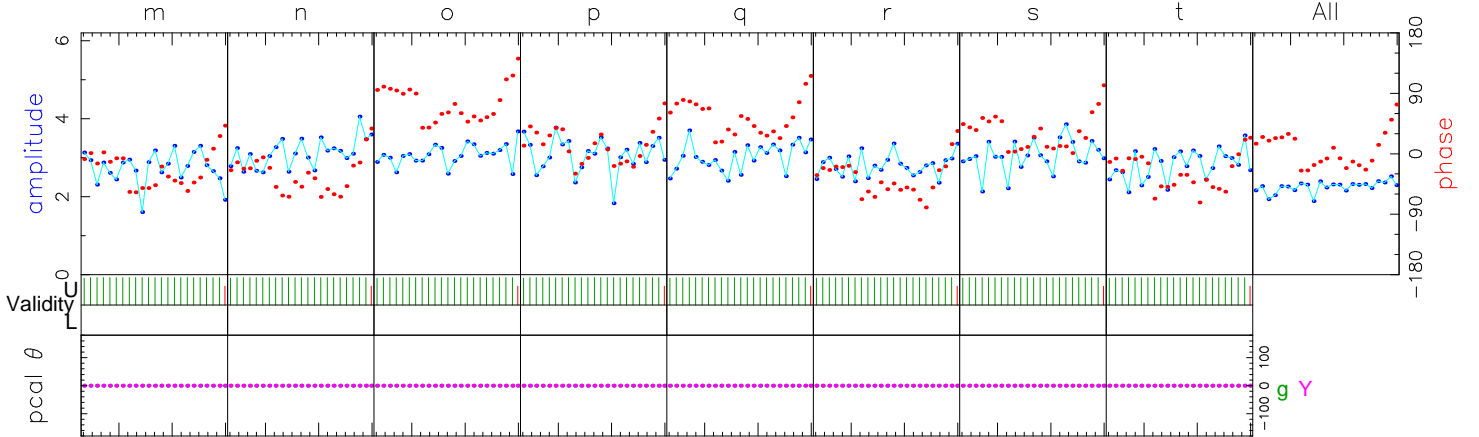
Fringe quality 4

SNR 71.9  
 Int time 162.285  
 Amp 2.067  
 Phase 5.8  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.276332  
 MBD 0.004261  
 Fringe rate (Hz)  
 -0.063943  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034017.41  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103456  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 23 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-24.3	-32.3	74.7	14.2	54.1	-37.7	30.9	-29.2		5.8
	2.5	2.8	2.8	2.8	2.7	2.5	2.8	2.6		2.7
	329.1	327.4	328.0	327.4	327.1	327.0	327.5	327.6		327.7
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0		
g	0	0	0	0	0	0	0	0		
Y	0	0	0	0	0	0	0	0		
g:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks

Group delay (usec) (SBD)	-6.50262441120E+03	Apriori delay (usec)	-6.50289429743E+03	Resid mbdelay (usec)	4.26123E-03	+/-	1.5E-05
Sband delay (usec)	-6.50261796593E+03	Apriori clock (usec)	1.1105260E+02	Resid sbdelay (usec)	2.76332E-01	+/-	1.2E-04
Phase delay (usec)	-6.50289429725E+03	Apriori clockrate (us/s)	2.2401300E-02	Resid phdelay (usec)	1.86676E-07	+/-	5.1E-08
Delay rate (us/s)	-3.55437462767E-01	Apriori rate (us/s)	-3.55436720447E-01	Resid rate (us/s)	-7.42320E-07	+/-	5.5E-10
Total phase (deg)	-275.3	Apriori accel (us/s/s)	5.72644184237E-05	Resid phase (deg)	5.8	+/-	1.6

ph/seg (deg) 24.5 3.8  
 amp/seg (%) 11.5 6.7  
 ph/frq (deg) 47.0 2.3  
 amp/frq (%) 30.7 3.9

RMS Theor. Amplitude 2.067 +/- 0.029  
 Search (1024X32) 1.970  
 Interp. 0.000  
 Inc. seg. avg. 2.252  
 Inc. frq. avg. 2.686

g: az 63.3 el 32.1 pa -15.2 Y: az 81.7 el 57.1 pa -70.9 u,v (fr/asec) 2607.975 5685.078  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gY..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gY.W.96.3MP1H3

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

simultaneous interpolator



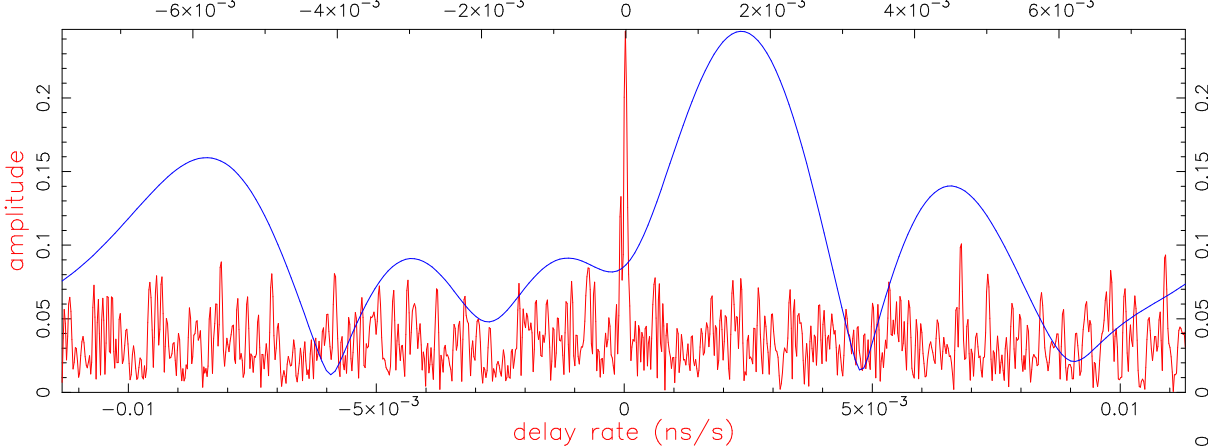
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1H3, No0250, gZ

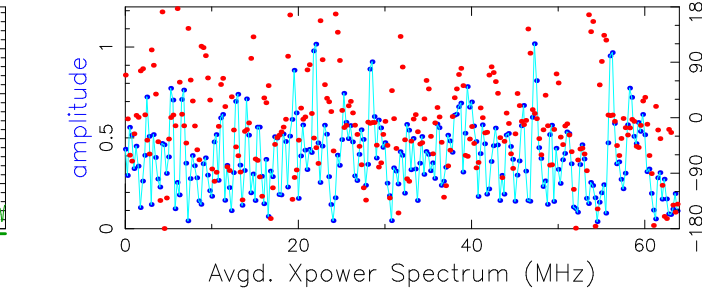
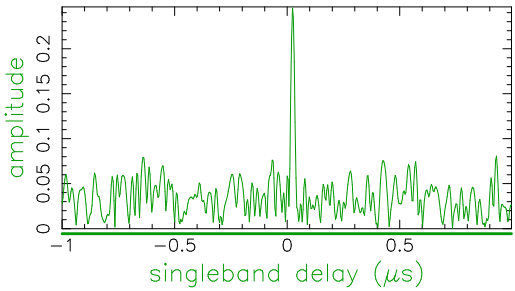
GLT - METSAHOV, fgroup W, pol LL

multiband delay ( $\mu$ s)



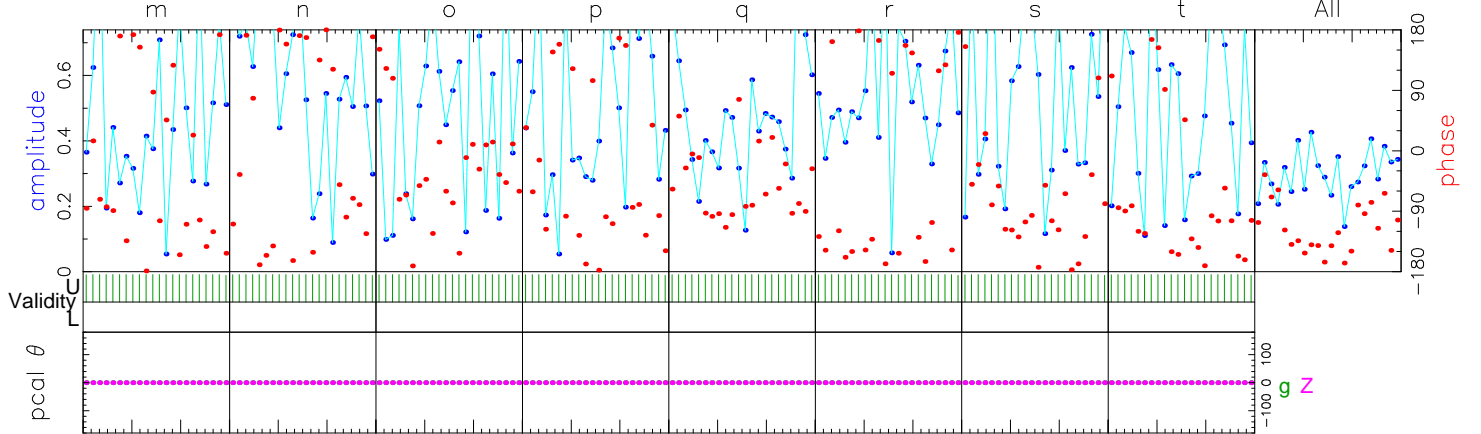
Fringe quality 9

SNR 9.0  
 Int time 179.950  
 Amp 0.247  
 Phase -114.0  
 PFD 2.9e-11  
 Delays (us)  
 SBD 0.024402  
 MBD 0.001622  
 Fringe rate (Hz) 0.001504  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103440  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-127.7	-150.4	-45.4	-103.9	-55.4	-165.3	-96.9	-128.4	Phase	-114.0
	0.2	0.3	0.3	0.2	0.3	0.4	0.4	0.3	Ampl.	0.3
	265.5	262.8	494.5	424.0	262.2	263.0	262.8	263.1	Sbd box	263.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
g:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-8.01270284748E+03	Apriori delay (usec)	-8.01272009440E+03	Resid mbdelay (usec)	1.62192E-03	+/-	1.2E-04
Sband delay (usec)	-8.01269569240E+03	Apriori clock (usec)	2.1528625E-01	Resid sbdelay (usec)	2.44020E-02	+/-	9.5E-04
Phase delay (usec)	-8.01272009808E+03	Apriori clockrate (us/s)	1.7450104E-07	Resid phdelay (usec)	-3.67633E-06	+/-	4.1E-07
Delay rate (us/s)	1.19642636773E-01	Apriori rate (us/s)	1.19642619310E-01	Resid rate (us/s)	1.74631E-08	+/-	3.9E-09
Total phase (deg)	-89.5	Apriori accel (us/s/s)	4.97844636877E-05	Resid phase (deg)	-114.0	+/-	12.7

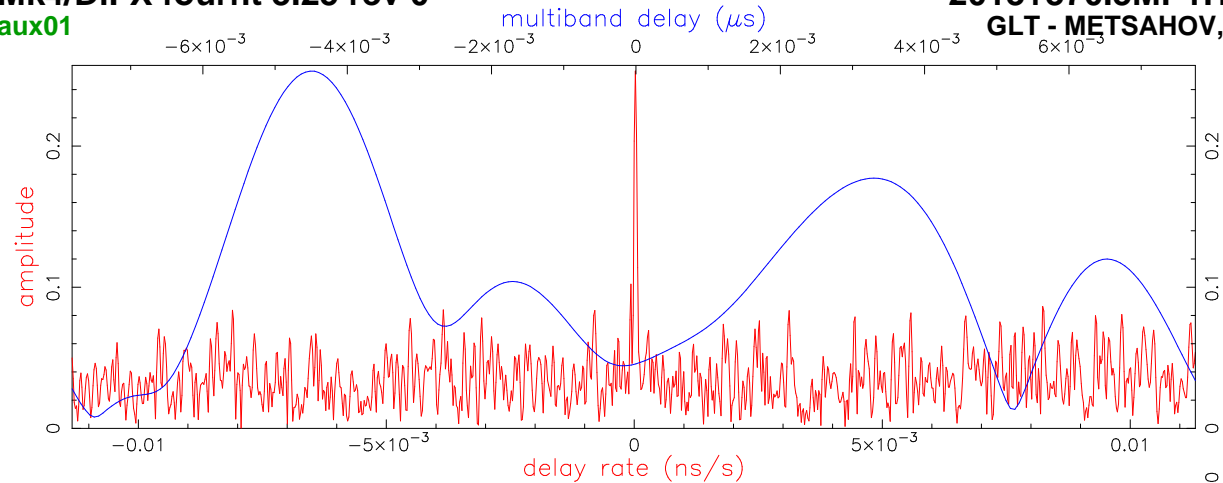
ph/seg (deg) 36.7 29.7 Search (1024X32) 0.241 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 36.1 51.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 46.4 17.9 Inc. seg. avg. 0.265 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 40.2 31.3 Inc. frq. avg. 0.307 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 g: az 63.3 el 32.1 pa -15.2 Z: az 150.7 el 65.1 pa -17.5 u,v (fr/asec) -819.590 3719.788 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gZ..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gZ.W.21.3MP1H3

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1H3, No0250, gZ

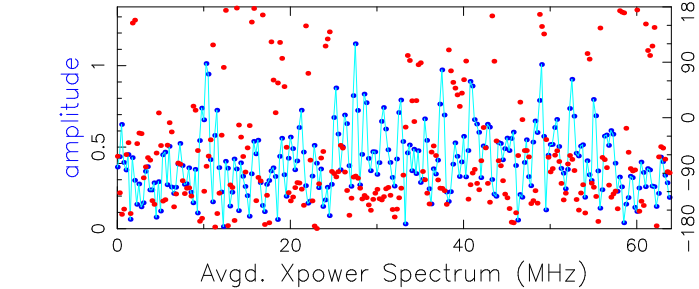
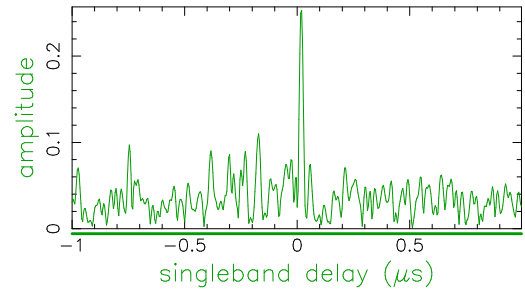
GLT - METSAHOV, fgroup W, pol RR



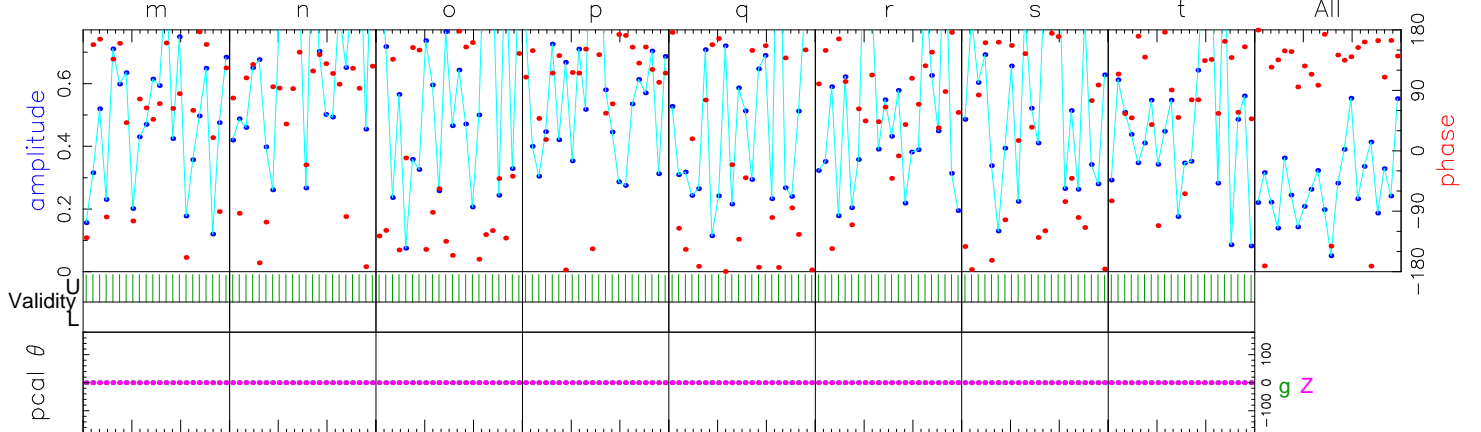
Fringe quality 9

SNR 9.4  
 Int time 179.951  
 Amp 0.257  
 Phase 145.7  
 PFD 7.9e-13  
 Delays (us)  
 SBD 0.017886  
 MBD -0.004497  
 Fringe rate (Hz) 0.001340  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512

Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build 2024:351:154034  
 2025:041:103442  
 2024:113:095956  
 RA & Dec (J2000) 20h15m28.729786s  
 +37°10'59.514736"



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
g:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec) (SBD)	-8.01270896685E+03									
Sband delay (usec)	-8.01270220865E+03									
Phase delay (usec)	-8.01272008971E+03									
Delay rate (us/s)	1.19642634864E-01									
Total phase (deg)			-189.8							
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)										
Bits/sample: 2x2										
Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us										
Data rate(Mb/s): 2048										
nlags: 256 t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

ph/seg (deg) 30.3 28.5 Search (1024X32) 0.248 Pcal period (AP's) 5, 5  
 amp/seg (%) 47.6 49.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 48.5 17.2 Inc. seg. avg. 0.251 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 42.8 30.0 Inc. frq. avg. 0.325 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 g: az 63.3 el 32.1 pa -15.2 Z: az 150.7 el 65.1 pa -17.5 u,v (fr/asec) -819.590 3719.788 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gZ..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gZ.W.29.3MP1H3

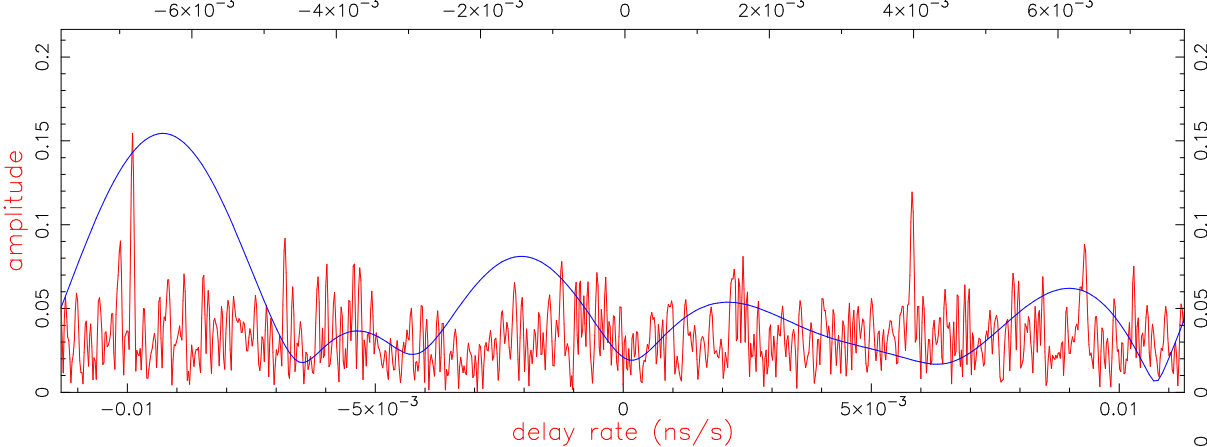
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1H3, No0250, gZ

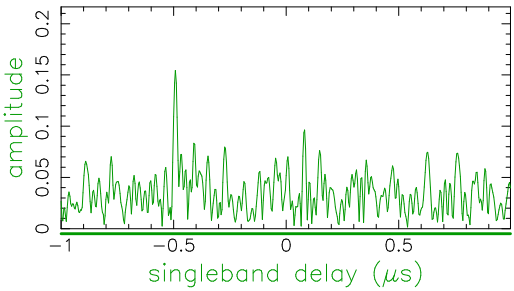
GLT - METSAHOV, fgroup W, pol LR

multiband delay ( $\mu$ s)

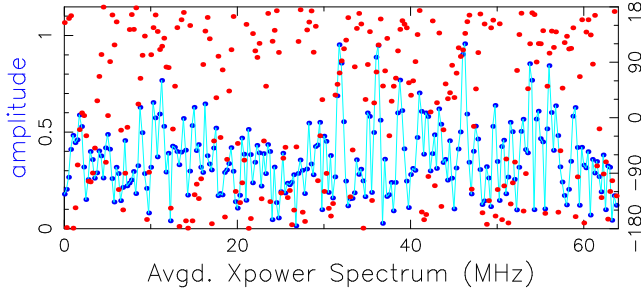


Fringe quality 0

SNR 5.7  
 Int time 179.950  
 Amp 0.216  
 Phase -47.4  
 PFD 8.3e-01  
 Delays (us)  
 SBD -0.492215  
 MBD -0.006403  
 Fringe rate (Hz)  
 -0.854661  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

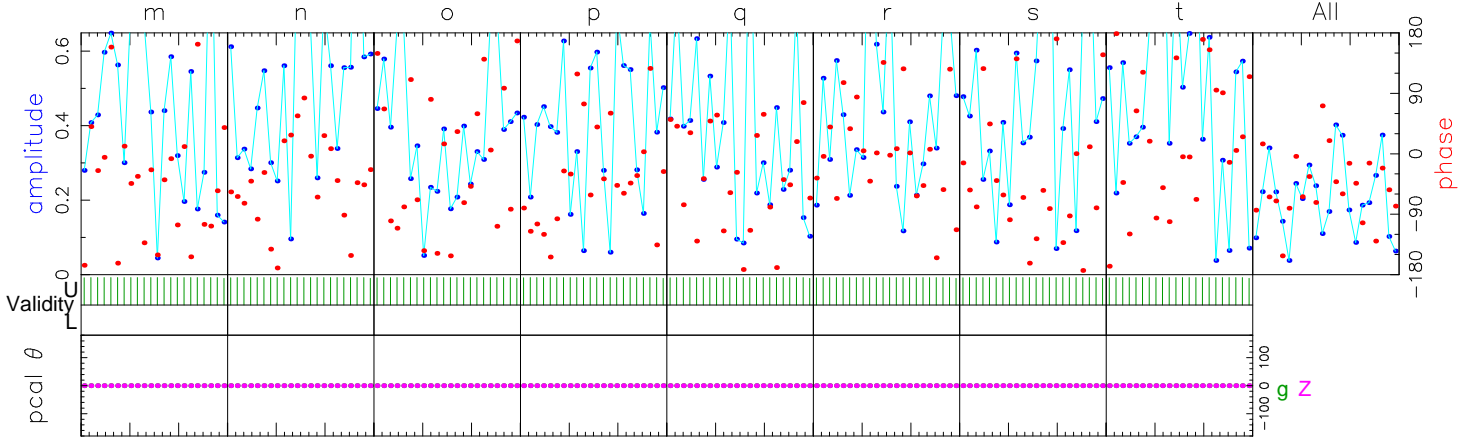


delay rate (ns/s)



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103444  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-69.6	-28.3	-83.5	-59.5	-28.8	-10.3	-83.1	-42.9	Phase	-47.4
	0.2	0.4	0.1	0.3	0.2	0.3	0.3	0.1	Ampl.	0.2
	296.3	130.5	58.0	482.2	339.1	227.3	152.6	505.6	Sbd box	131.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
g:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-8.01321087209E+03	Apriori delay (usec)	-8.01272009440E+03	Resid mbdelay (usec)	-6.40268E-03	+/-	1.9E-04
Sband delay (usec)	-8.01321230940E+03	Apriori clock (usec)	2.1528625E-01	Resid sbdelay (usec)	-4.92215E-01	+/-	1.5E-03
Phase delay (usec)	-8.01272009593E+03	Apriori clockrate (us/s)	1.7450104E-07	Resid phdelay (usec)	-1.52883E-06	+/-	6.5E-07
Delay rate (us/s)	1.19632697546E-01	Apriori rate (us/s)	1.19642619310E-01	Resid rate (us/s)	-9.92176E-06	+/-	6.3E-09
Total phase (deg)	-22.9	Apriori accel (us/s/s)	4.97844636877E-05	Resid phase (deg)	-47.4	+/-	20.2

ph/seg (deg)	49.4	RMS	47.4	Theor.	47.4	Amplitude	0.216 +/- 0.038	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	74.3	Search (1024X32)	0.152	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000		
ph/frq (deg)	29.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008		
amp/frq (%)	44.1	Inc. seg. avg.	0.216	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	dr window (ns/s)	-0.011	0.011		
		Inc. frq. avg.	0.213	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00		
g: az 63.3 el 32.1 pa -15.2	Z: az 150.7 el 65.1 pa -17.5	u, v (fr/asec)	-819.590 3719.788	simultaneous interpolator						

Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gZ..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gZ.W.40.3MP1H3

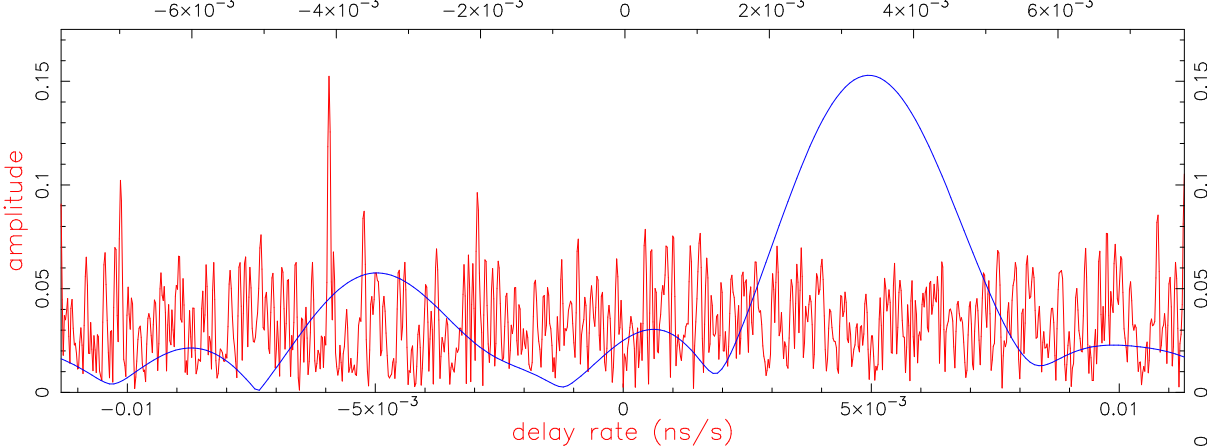
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1H3, No0250, gZ

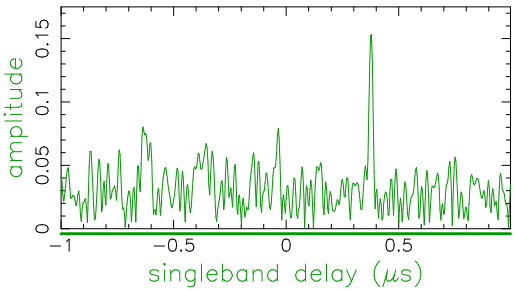
GLT - METSAHOV, fgroup W, pol RL

multiband delay ( $\mu$ s)

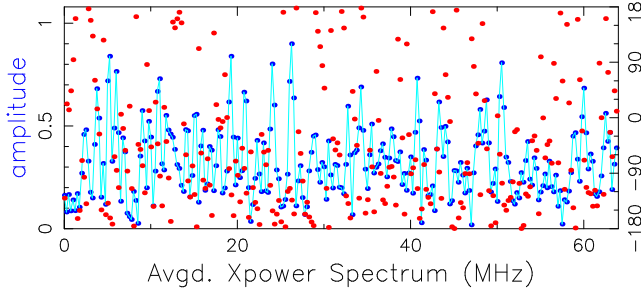


Fringe quality 0

SNR 5.7  
 Int time 179.951  
 Amp 0.175  
 Phase -129.5  
 PFD 7.3e-01  
 Delays (us)  
 SBD 0.377094  
 MBD 0.003468  
 Fringe rate (Hz)  
 -0.511452  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

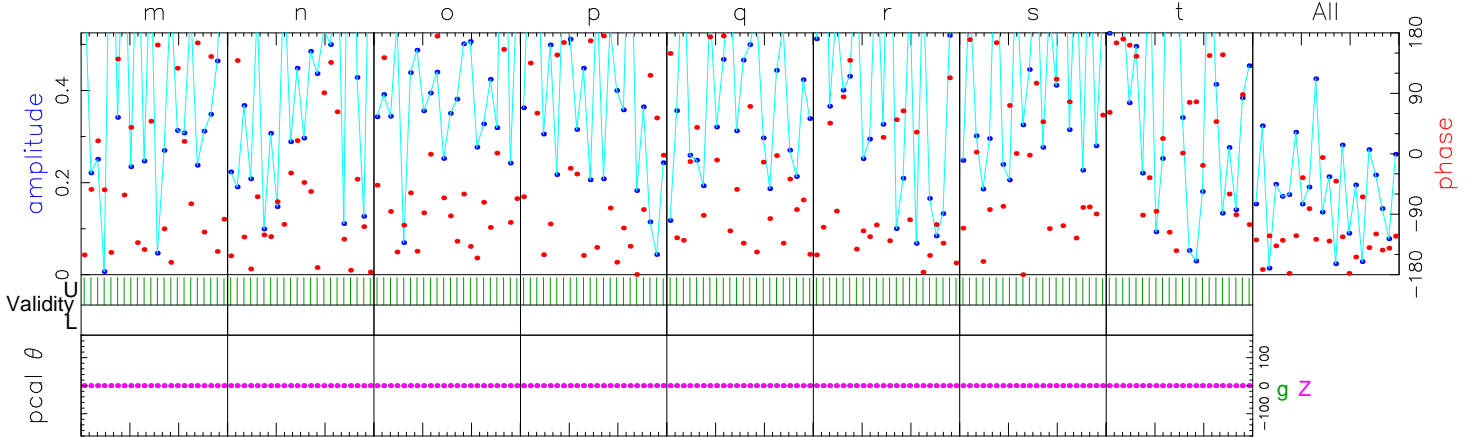


delay rate (ns/s)



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 034000.00  
 Stop 034300.22  
 FRT 034130.00  
 Corr/FF/build  
 2024:351:154034  
 2025:041:103447  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-128.4	-141.1	-111.9	-141.2	-110.6	-136.7	-121.5	-164.9	Phase	-129.5
	0.2	0.1	0.2	0.2	0.2	0.3	0.1	0.1	Ampl.	0.2
	167.9	121.9	378.4	340.1	160.3	239.9	29.3	39.0	Sbd box	353.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
g:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-8.01234162599E+03	Apriori delay (usec)	-8.01272009440E+03	Resid mbdelay (usec)	3.46841E-03	+/-	1.9E-04
Sband delay (usec)	-8.01234300065E+03	Apriori clock (usec)	2.1528625E-01	Resid sbdelay (usec)	3.77094E-01	+/-	1.5E-03
Phase delay (usec)	-8.01272009858E+03	Apriori clockrate (us/s)	1.7450104E-07	Resid phdelay (usec)	-4.17599E-06	+/-	6.5E-07
Delay rate (us/s)	1.19636681859E-01	Apriori rate (us/s)	1.19642619310E-01	Resid rate (us/s)	-5.93745E-06	+/-	6.2E-09
Total phase (deg)	-105.0	Apriori accel (us/s/s)	4.97844636877E-05	Resid phase (deg)	-129.5	+/-	20.0

ph/seg (deg) RMS Theor. Amplitude 0.175 +/- 0.031 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 67.1 82.0 Search (1024X32) 0.152 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 19.6 28.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 33.1 49.4 Inc. seg. avg. 0.155 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 g: az 63.3 el 32.1 pa -15.2 Z: az 150.7 el 65.1 pa -17.5 u,v (fr/asec) -819.590 3719.788 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0250/gZ..3MP1H3 Output file: /Exps/c241c/v2/3mm/1234/No0250/gZ.W.49.3MP1H3 simultaneous interpolator