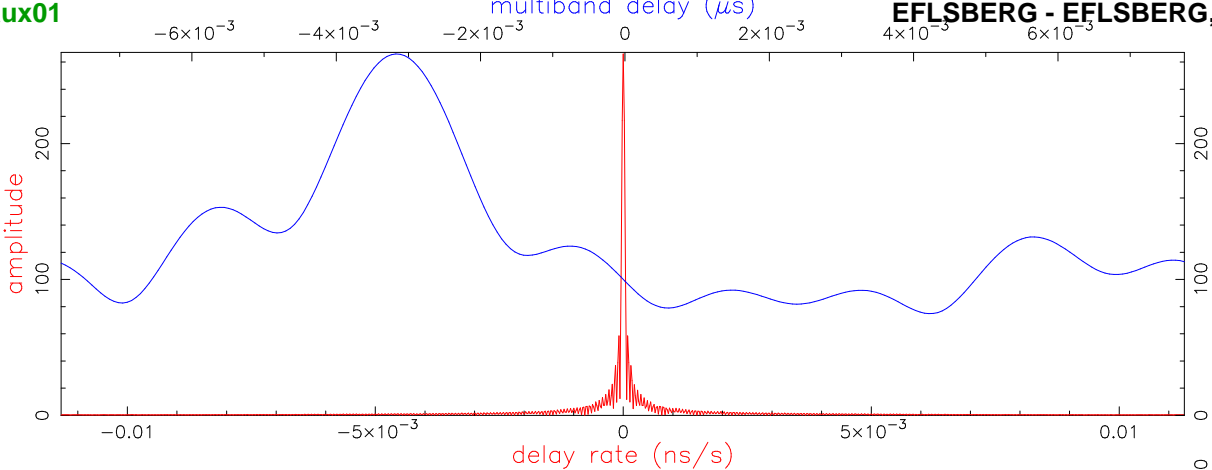


Mk4/DiFX fourfit 3.25 rev 0

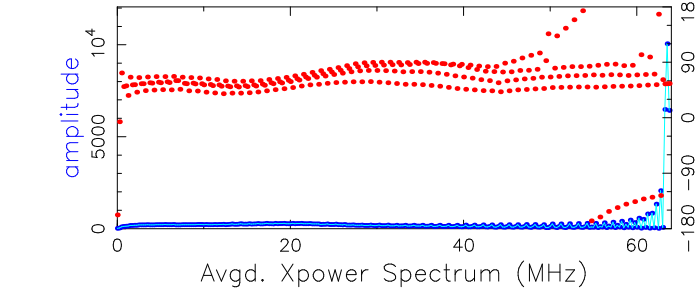
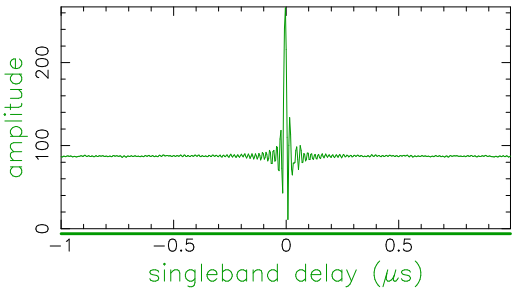
aux01

2013+370.3MP1EA, No0232, BB

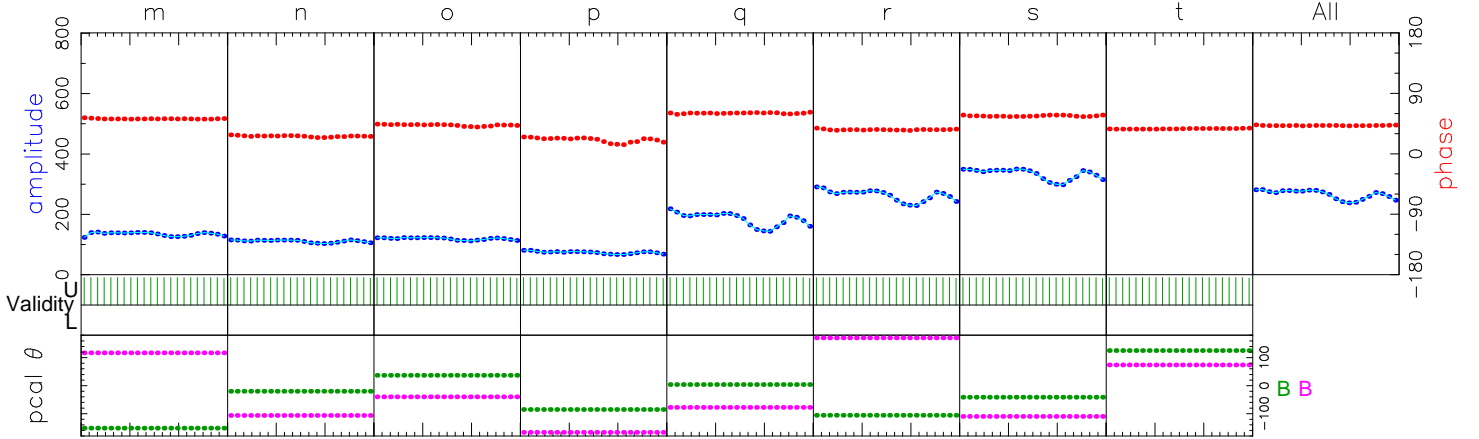
EFLSBERG - EFLSBERG, fgroup W, pol LR



Fringe quality 6  
 Error code G  
 SNR 9800.0  
 Int time 179.970  
 Amp 267.132  
 Phase 42.1  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.004579  
 MBD -0.003145  
 Fringe rate (Hz)  
 -0.000015  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 004000.00  
 Stop 004300.22  
 FRT 004130.00  
 Corr/FF/build  
 2024:351:093049  
 2025:041:102637  
 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



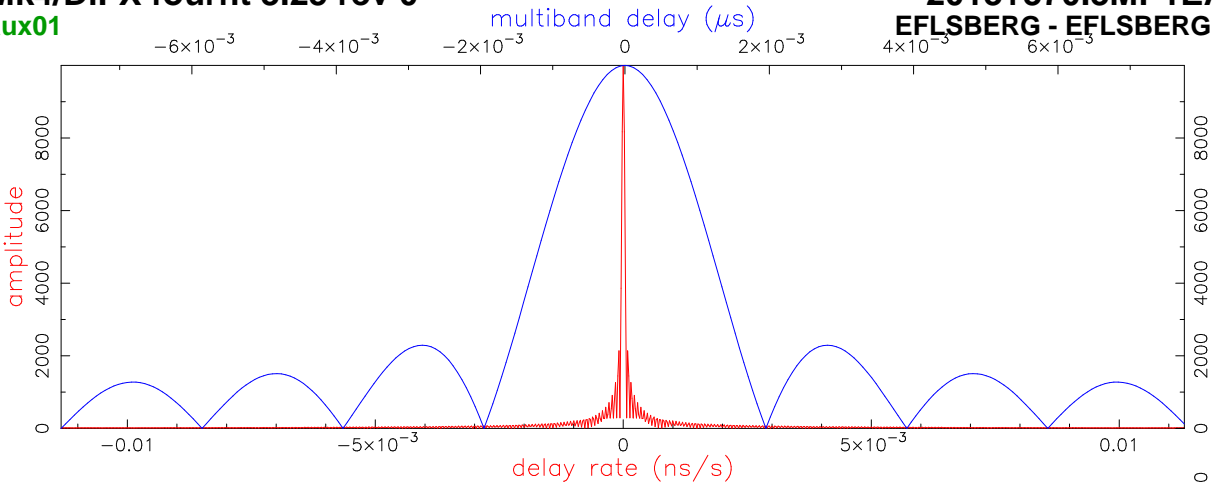
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	0	0	0	0	0	0	0	0		
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:B	-151:118	-20:-106	37:-40	-85:-167	4:-77	-106:171	-41:-110	125:74		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec) (SBD)	-3.14509375000E-03									
Sband delay (usec)	-4.57850000000E-03									
Phase delay (usec)	1.35607978647E-06									
Delay rate (us/s)	-1.70053828700E-10									
Total phase (deg)			42.1							
RMS	0.3	0.0								
ph/seg (deg)	0.3	0.0								
amp/seg (%)	5.4	0.0								
ph/frq (deg)	15.3	0.0								
amp/frq (%)	99.8	0.0								
B: az 72.0 el 35.1 pa -49.5	B: az 72.0 el 35.1 pa -49.5		u,v (fr/asec) 0.000 0.000		simultaneous interpolator					
Control file: cf_1234_gmva	Input file: /Exps/c241c/v2/3mm/1234/No0232/BB..3MP1EA		Output file: /Exps/c241c/v2/3mm/1234/No0232/BB.W.10.3MP1EA							

Mk4/DiFX fourfit 3.25 rev 0

aux01

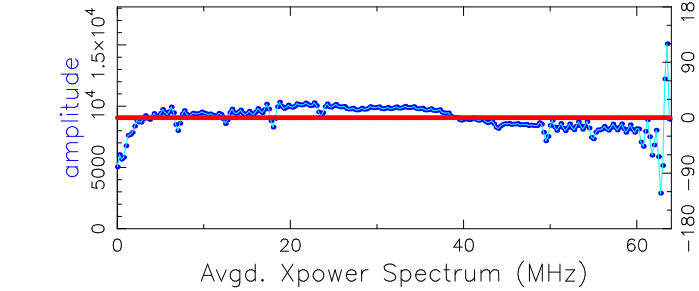
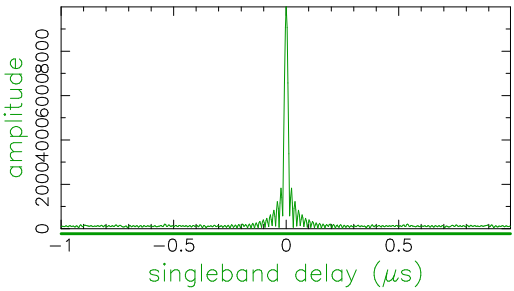
2013+370.3MP1EA, No0232, BB

EFLSBERG - EFLSBERG, fgroup W, pol LL



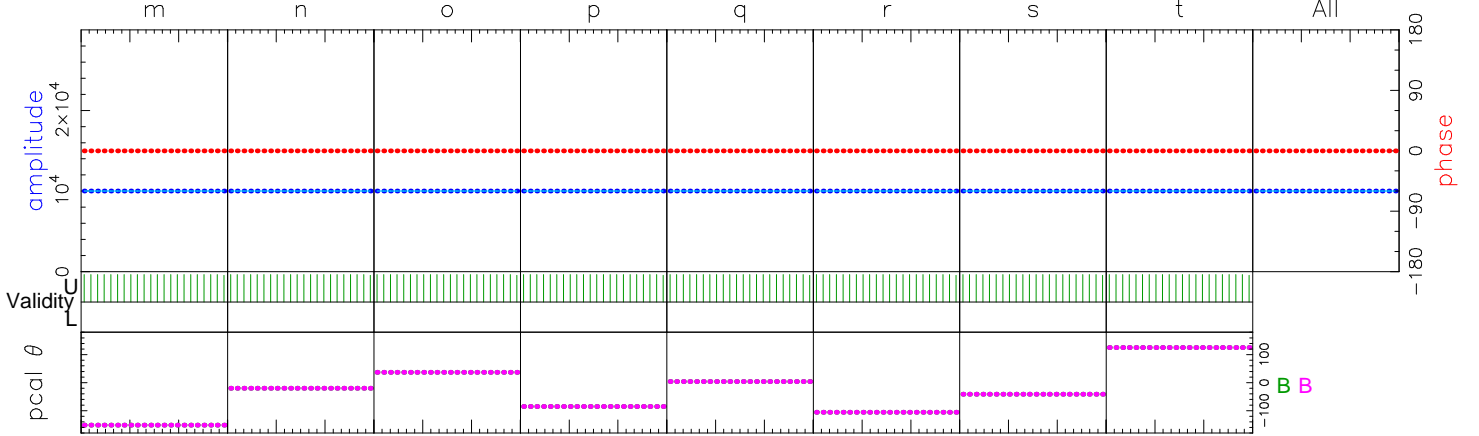
Fringe quality 9

SNR 366857.6  
 Int time 179.970  
 Amp 9999.999  
 Phase 0.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.000000  
 MBD 0.000000  
 Fringe rate (Hz)  
 0.000000  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 004000.00  
 Stop 004300.22  
 FRT 004130.00  
 Corr/FF/build  
 2024:351:093049  
 2025:041:102633  
 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
B	0	0	0	0	0	0	0	0	0.0	0.0
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	10000.0	10000.0
B:B	-151:-151	-20:-20	37:37	-85:-85	4:4	-106:-106	-41:-41	125:125	257.0	257.0
B	1000	1000	1000	1000	1000	1000	1000	1000	0.000000E+00	0.000000E+00
B	1000	1000	1000	1000	1000	1000	1000	1000	0.000000E+00	0.000000E+00
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	0.000000E+00	0.000000E+00
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	0.000000E+00	0.000000E+00

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 RMS Theor. Amplitude 9999.999 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 0.0 0.0 Search (1024X32) 9999.999 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  
 B: az 72.0 el 35.1 pa -49.5 B: az 72.0 el 35.1 pa -49.5 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/No0232/BB..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BB.W.1.3MP1EA simultaneous interpolator

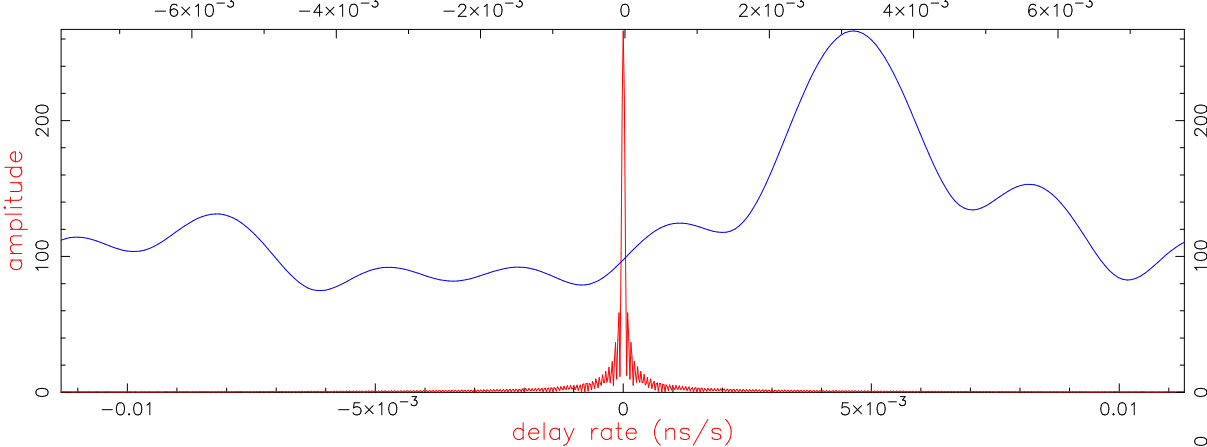
Mk4/DiFX fourfit 3.25 rev 0

aux01

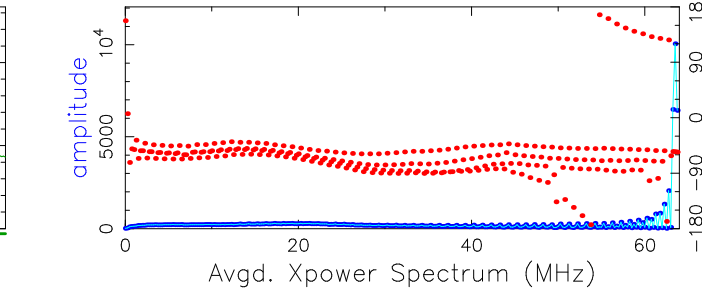
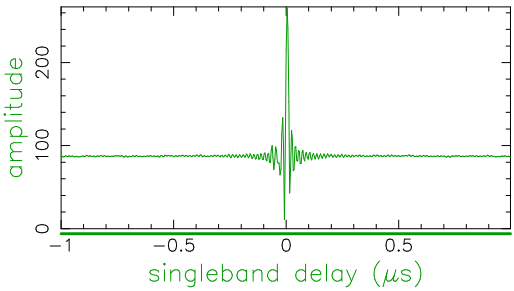
2013+370.3MP1EA, No0232, BB

EFLSBERG - EFLSBERG, fgroup W, pol RL

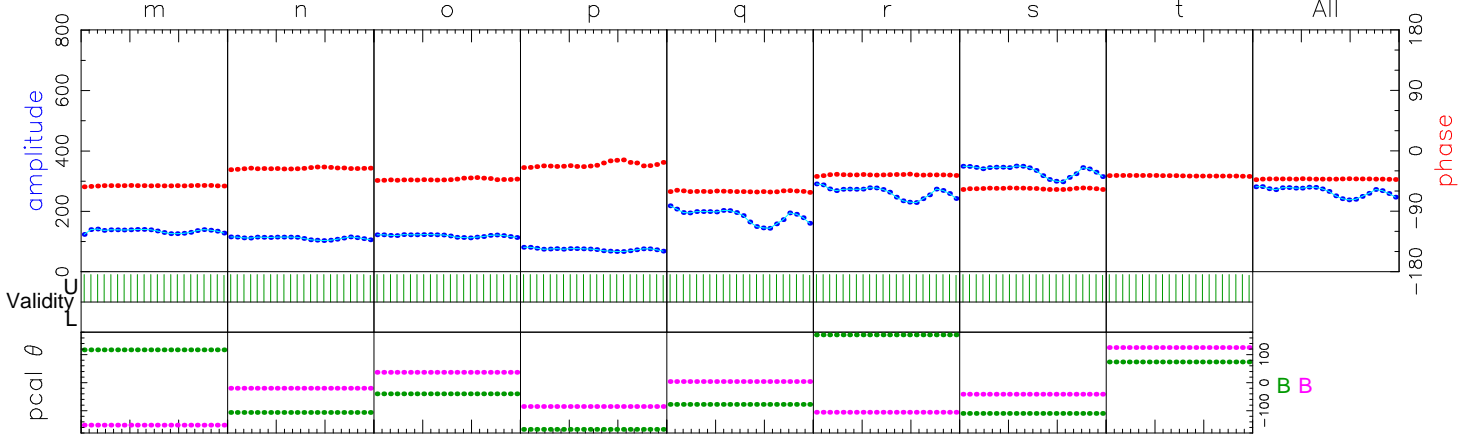
multiband delay ( $\mu$ s)



Fringe quality 6  
 Error code G  
 SNR 9800.0  
 Int time 179.970  
 Amp 267.132  
 Phase -42.1  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.004579  
 MBD 0.003145  
 Fringe rate (Hz)  
 0.000015  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 004000.00  
 Stop 004300.22  
 FRT 004130.00  
 Corr/FF/build  
 2024:351:093049  
 2025:041:102639  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"



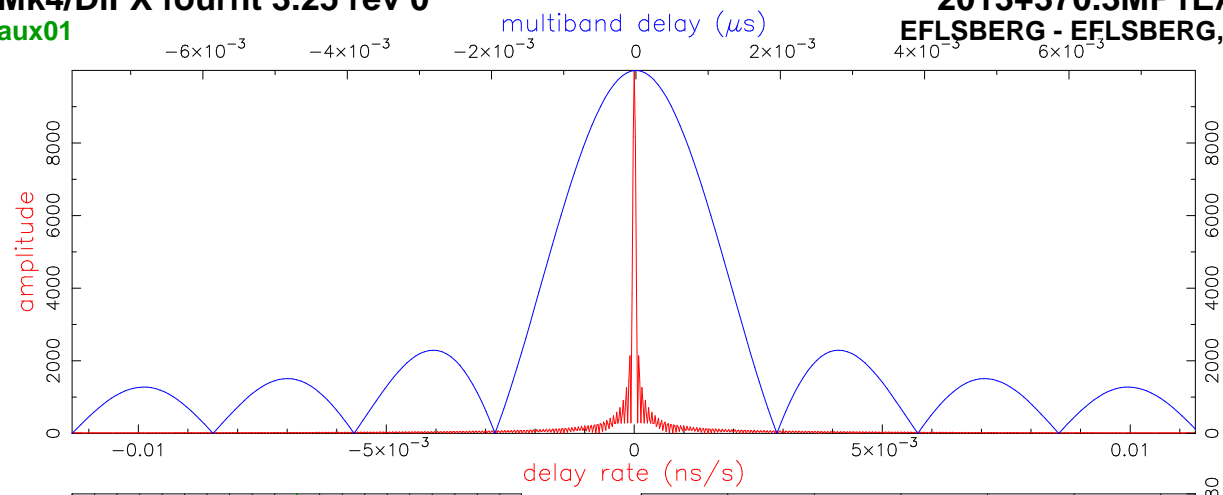
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



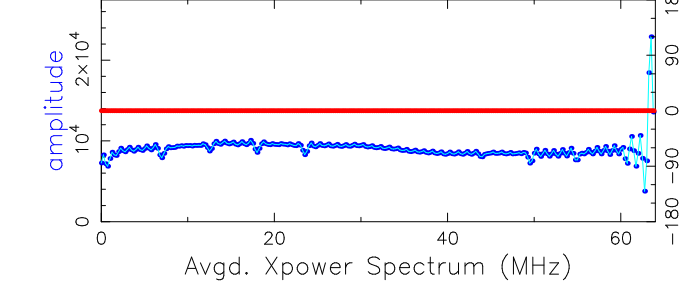
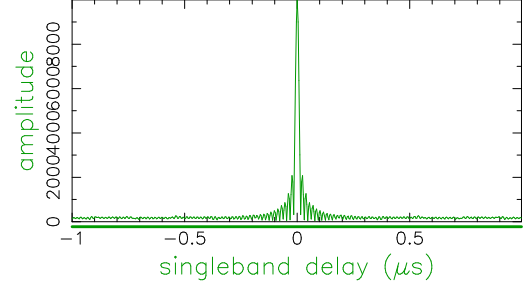
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-52.0	-26.2	-42.7	-20.9	-60.4	-35.9	-56.3	-37.2	Phase	-42.1
	135.0	111.2	119.4	73.9	184.7	263.3	333.5	942.7	Ampl.	270.5
	257.5	258.4	258.8	256.6	258.5	258.1	258.4	258.1	Sbd box	258.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:B	118:-151	-106:-20	-40:37	-167:-85	-77:4	171:-106	-110:-41	74:125	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD) 3.14509375000E-03 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) 3.14509E-03 +/- 1.1E-07  
 Sband delay (usec) 4.57850000000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 4.57850E-03 +/- 8.8E-07  
 Phase delay (usec) -1.35607978634E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -1.35608E-06 +/- 3.8E-10  
 Delay rate (us/s) 1.70053828700E-10 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) 1.70054E-10 +/- 3.6E-12  
 Total phase (deg) -42.1 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) -42.1 +/- 0.0

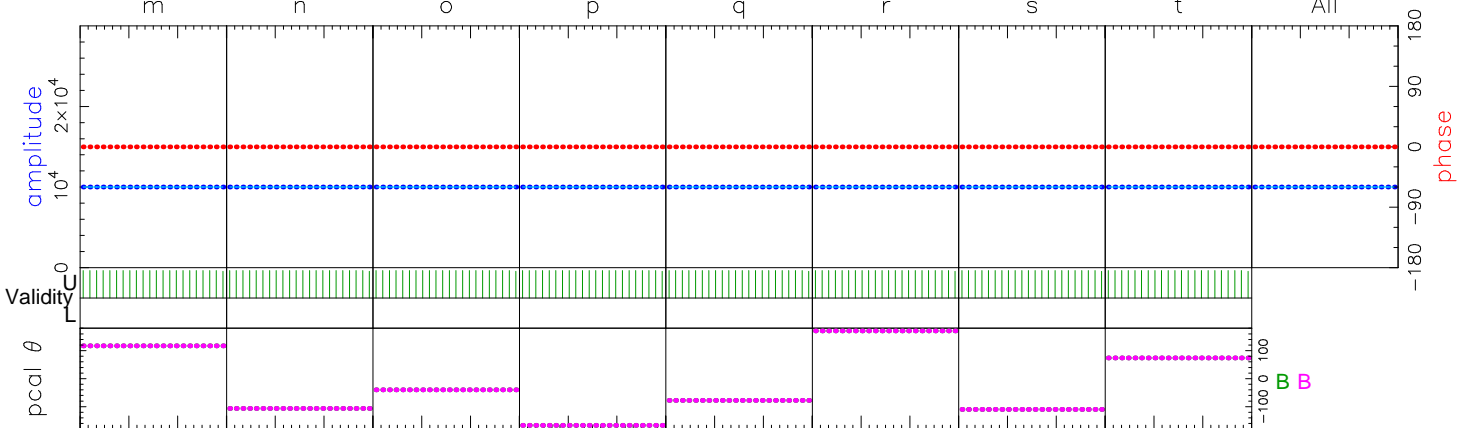
RMS Theor. Amplitude 267.132 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.3 0.0 Search (1024X32) 260.215 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 5.4 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 15.3 0.0 Inc. seg. avg. 265.981 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 amp/frq (%) 99.8 0.0 Inc. frq. avg. 270.455 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 B: az 72.0 el 35.1 pa -49.5 B: az 72.0 el 35.1 pa -49.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/BB..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BB.W.15.3MP1EA



Fringe quality 9  
SNR 366857.6  
Int time 179.970  
Amp 9999.999  
Phase 0.0  
PFD 0.0e+00  
Delays (us)  
SBD 0.000000  
MBD 0.000000  
Fringe rate (Hz)  
0.000000  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. c241c  
Exper # 1234  
Yr:day 2024:112  
Start 004000.00  
Stop 004300.22  
FRT 004130.00  
Corr/FF/build  
2024:351:093049  
2025:041:102635  
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
B	0	0	0	0	0	0	0	0	Ampl.	10000.0
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
B:B	118:118	-106:-106	-40:-40	-167:-167	-77:-77	171:171	-110:-110	74:74	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Mani PC	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	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

RMS Theor. Amplitude 9999.999 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.0 0.0 Search (1024X32) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 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  
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.999 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 B: az 72.0 el 35.1 pa -49.5 B: az 72.0 el 35.1 pa -49.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/BB..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BB.W.5.3MP1EA

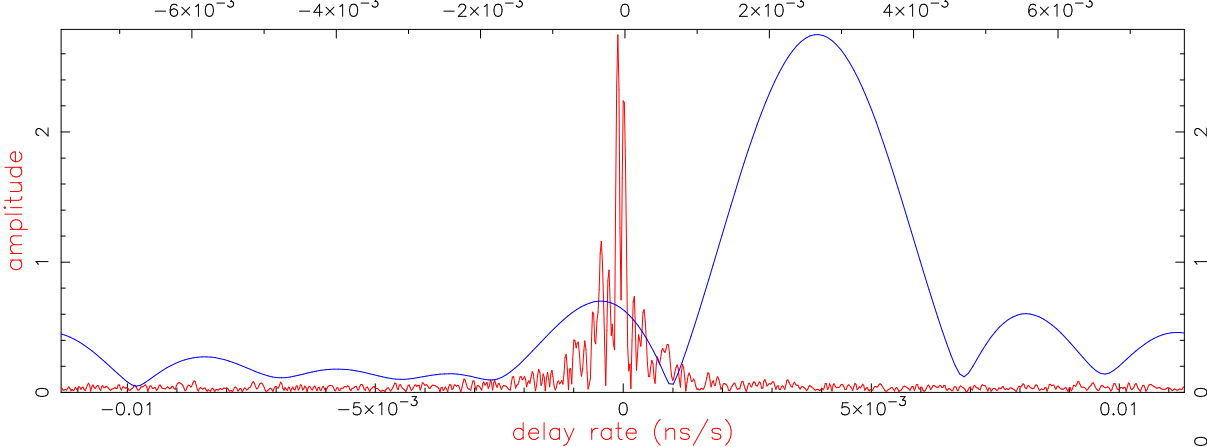
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, BN

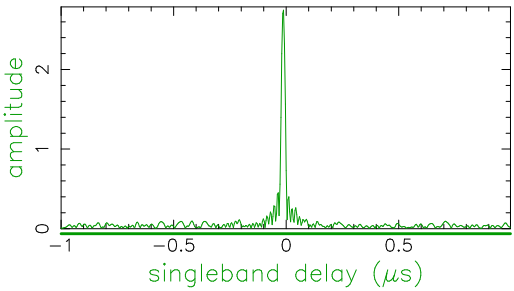
EFLSBERG - NOEMA, fgroup W, pol LR

multiband delay ( $\mu$ s)

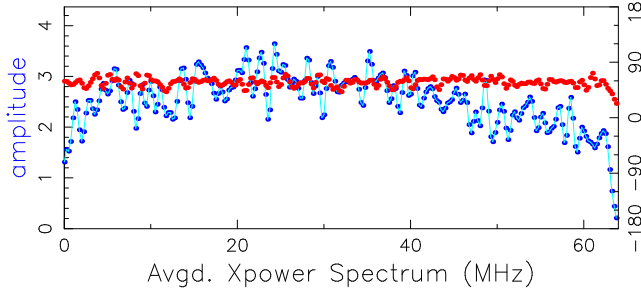


Fringe quality 5

SNR 102.3  
 Int time 179.969  
 Amp 2.788  
 Phase -125.1  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.013319  
 MBD 0.002624  
 Fringe rate (Hz)  
 -0.008926  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

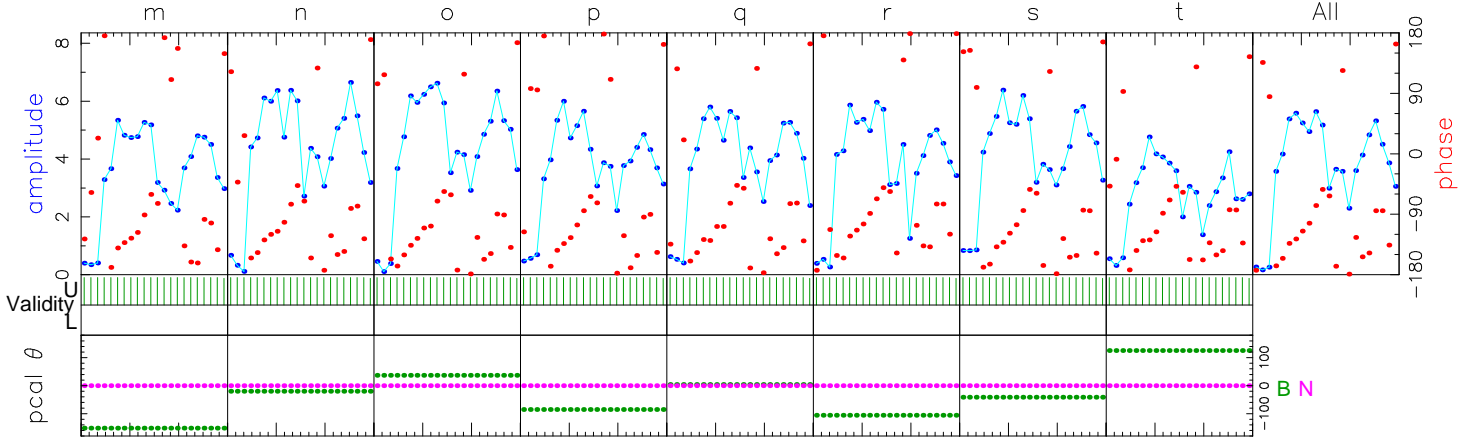


delay rate (ns/s)



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 004000.00  
 Stop 004300.22  
 FRT 004130.00  
 Corr/FF/build  
 2024:351:093049  
 2025:041:102638  
 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
	-134.3	-120.6	-125.5	-134.2	-120.4	-113.7	-130.8	-121.7	Phase	-125.1
	2.6	3.2	3.2	2.6	2.8	2.8	3.0	1.9	Ampl.	2.8
	252.0	253.3	254.0	254.3	254.2	254.0	253.6	252.3	Sbd box	253.6
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	
N	0	0	0	0	0	0	0	0	PC freqs	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:N	-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	
N	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	7.83536575085E+02	Apriori delay (usec)	7.83549575709E+02	Resid mbdelay (usec)	2.62438E-03	+/-	1.1E-05
Sband delay (usec)	7.83536256459E+02	Apriori clock (usec)	-2.2039106E+01	Resid sbdelay (usec)	-1.33193E-02	+/-	8.4E-05
Phase delay (usec)	7.83549571676E+02	Apriori clockrate (us/s)	-2.0383803E-07	Resid phdelay (usec)	-4.03262E-06	+/-	3.6E-08
Delay rate (us/s)	-9.47474141006E-02	Apriori rate (us/s)	-9.47473104825E-02	Resid rate (us/s)	-1.03618E-07	+/-	3.5E-10
Total phase (deg)		Apriori accel (us/s/s)	4.40997328901E-07	Resid phase (deg)	-125.1	+/-	1.1

ph/seg (deg)	58.8	RMS	2.6	Theor.	2.788 +/- 0.027	PCal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	68.5	Search (1024X32)	2.646	Interp.	0.000	PCal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	8.0	Inc. seg. avg.	3.737	Inc. frq. avg.	2.765	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	13.7	Inc. frq. avg.	2.765	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	dr window (ns/s)	-0.011 0.011
B: az 72.0 el 35.1 pa -49.5		N: az 67.7 el 32.5 pa -55.9		u, v (fr/asec)	683.190 509.836	ion window (TEC)	0.00 0.00	simultaneous interpolator		

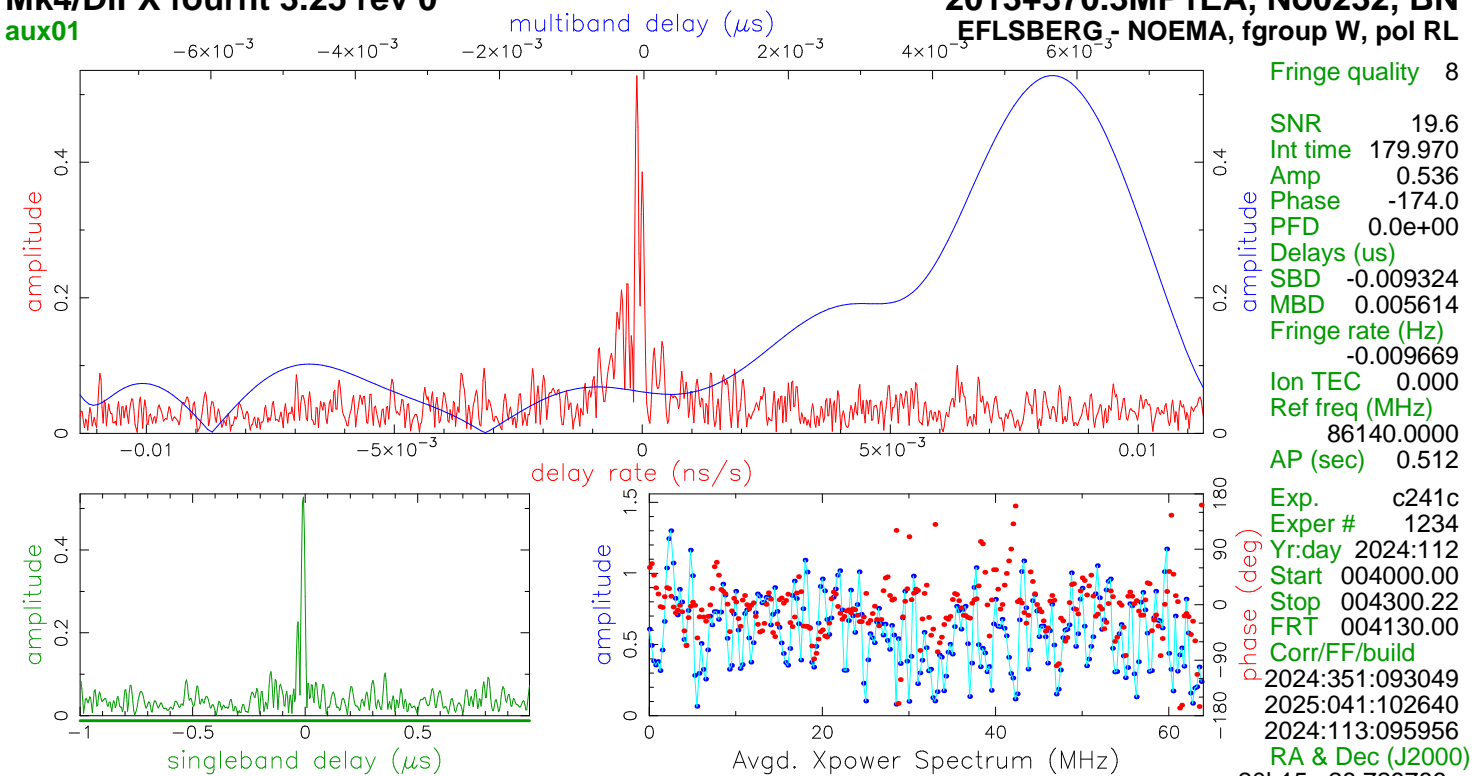
Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/BN..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BN.W.11.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, BN

EFLSBERG - NOEMA, fgroup W, pol RL

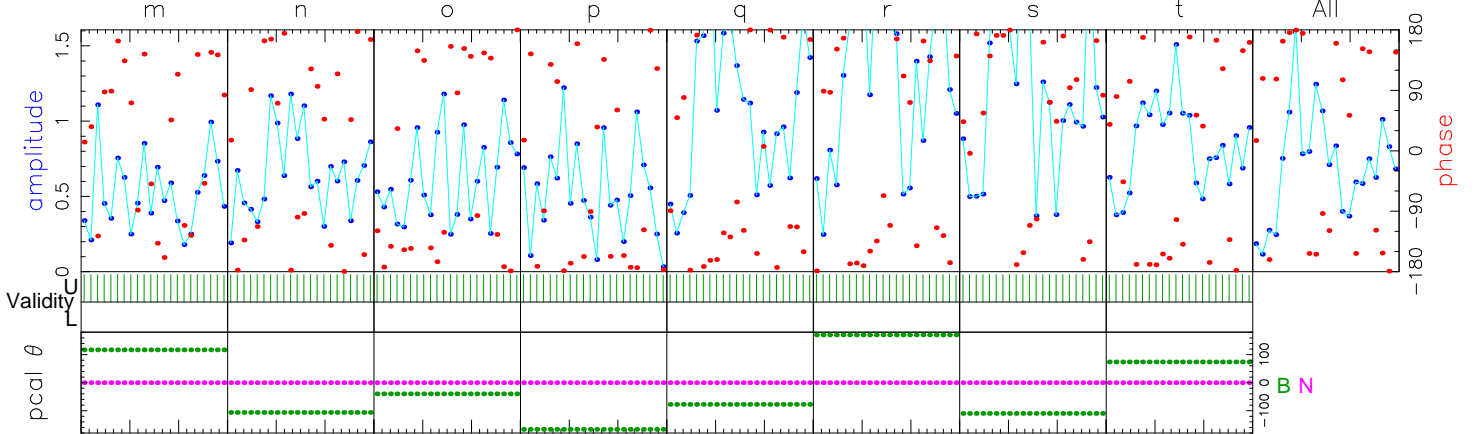


Fringe quality 8

SNR 19.6  
 Int time 179.970  
 Amp 0.536  
 Phase -174.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.009324  
 MBD 0.005614  
 Fringe rate (Hz)  
 -0.009669  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 004000.00  
 Stop 004300.22  
 FRT 004130.00  
 Corr/FF/build  
 2024:351:093049  
 2025:041:102640  
 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
	155.7	174.4	-172.4	172.4	-152.0	-163.1	170.5	-177.6	Phase	-174.0
	0.2	0.4	0.5	0.3	0.8	0.9	0.8	0.5	Ampl.	0.5
	252.5	253.5	254.9	253.3	255.4	254.8	255.3	253.2	Sbd box	254.6
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	
N	0	0	0	0	0	0	0	0	PC freqs	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:N	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	7.83539564585E+02	Apriori delay (usec)	7.83549575709E+02	Resid mbdelay (usec)	5.61388E-03	+/-	5.5E-05
Sband delay (usec)	7.83540252209E+02	Apriori clock (usec)	-2.2039106E+01	Resid sbdelay (usec)	-9.32350E-03	+/-	4.4E-04
Phase delay (usec)	7.83549570097E+02	Apriori clockrate (us/s)	-2.0383803E-07	Resid phdelay (usec)	-5.61201E-06	+/-	1.9E-07
Delay rate (us/s)	-9.47474227322E-02	Apriori rate (us/s)	-9.47473104825E-02	Resid rate (us/s)	-1.12250E-07	+/-	1.8E-09
Total phase (deg)	-11.5	Apriori accel (us/s/s)	4.40997328901E-07	Resid phase (deg)	-174.0	+/-	5.8

ph/seg (deg) 62.6 13.7 Theor. Amplitude 0.536 +/- 0.027  
 amp/seg (%) 74.0 23.9 Search (1024X32) 0.521  
 ph/frq (deg) 18.7 8.2 Interp. 0.000  
 amp/frq (%) 46.2 14.4 Inc. seg. avg. 0.688  
 Inc. frq. avg. 0.541

Group delay (usec) (SBD) 7.83539564585E+02 Apriori delay (usec) 7.83549575709E+02 Resid mbdelay (usec) 5.61388E-03 +/- 5.5E-05  
 Sband delay (usec) 7.83540252209E+02 Apriori clock (usec) -2.2039106E+01 Resid sbdelay (usec) -9.32350E-03 +/- 4.4E-04  
 Phase delay (usec) 7.83549570097E+02 Apriori clockrate (us/s) -2.0383803E-07 Resid phdelay (usec) -5.61201E-06 +/- 1.9E-07  
 Delay rate (us/s) -9.47474227322E-02 Apriori rate (us/s) -9.47473104825E-02 Resid rate (us/s) -1.12250E-07 +/- 1.8E-09  
 Total phase (deg) -11.5 Apriori accel (us/s/s) 4.40997328901E-07 Resid phase (deg) -174.0 +/- 5.8

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

B: az 72.0 el 35.1 pa -49.5 N: az 67.7 el 32.5 pa -55.9 u, v (fr/asec) 683.190 509.836 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/BN..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BN.W.19.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

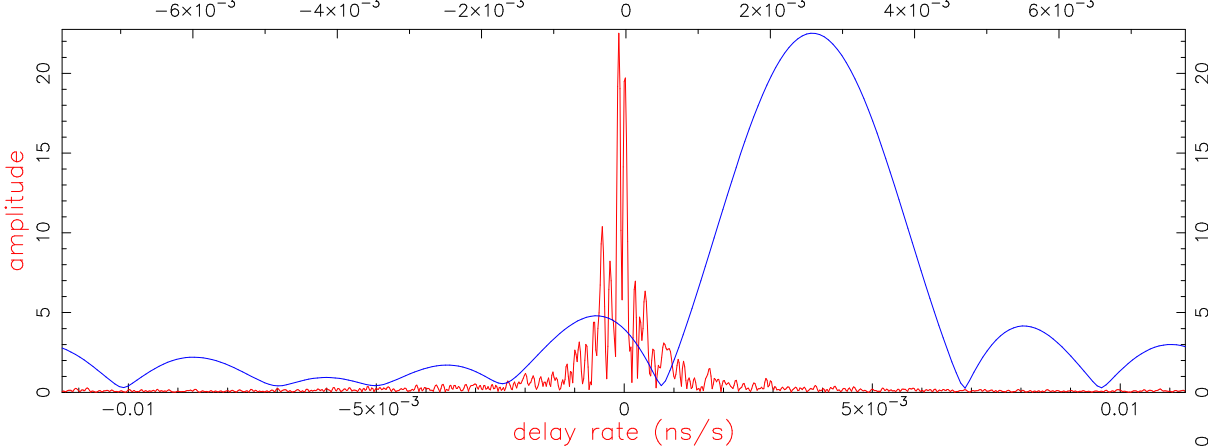
aux01

2013+370.3MP1EA, No0232, BN

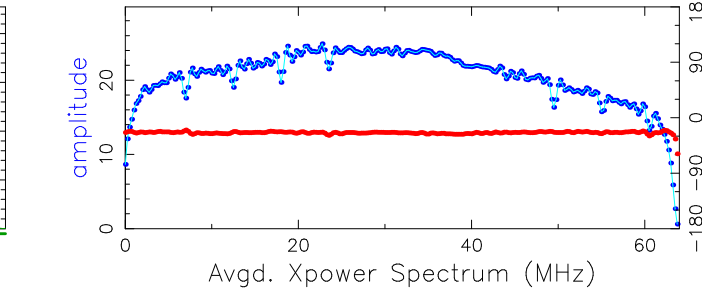
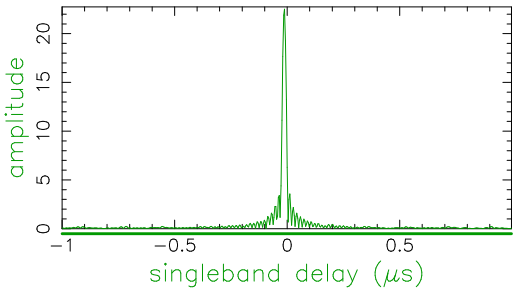
EFLSBERG<sub>3</sub>- NOEMA, fgroup W, pol LL

multiband delay ( $\mu$ s)

Fringe quality 5

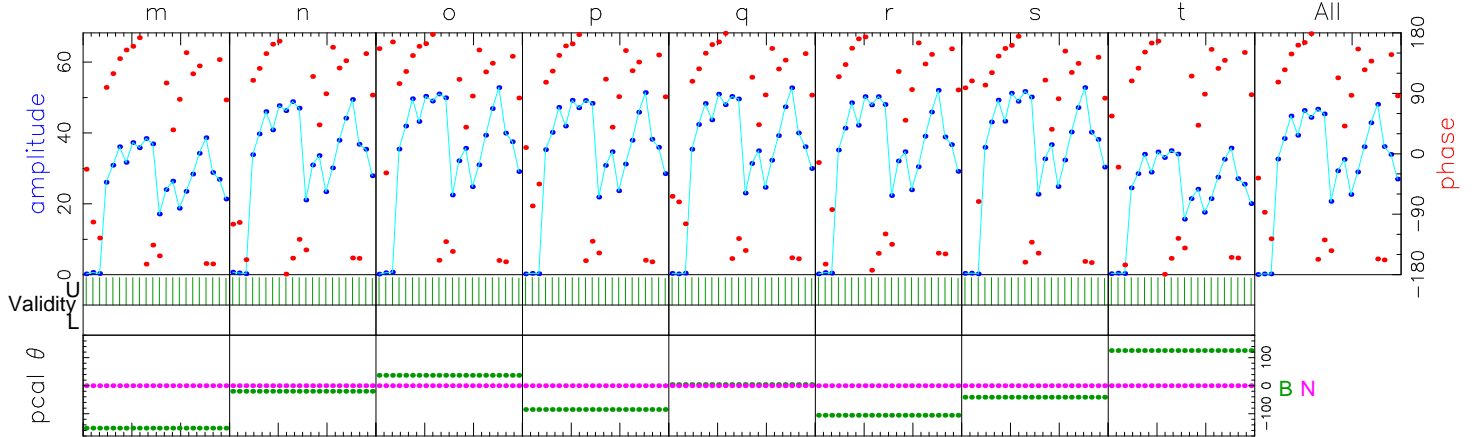


SNR 834.7  
 Int time 179.970  
 Amp 22.753  
 Phase 156.5  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.013076  
 MBD 0.002553  
 Fringe rate (Hz)  
 -0.009236  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 004000.00  
 Stop 004300.22  
 FRT 004130.00  
 Corr/FF/build  
 2024:351:093049  
 2025:041:102634  
 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		
N	0	0	0	0	0	0	0	0		
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:N	-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		
N	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	7.83536503835E+02	Apriori delay (usec)		7.83549575709E+02	Resid mbdelay (usec)		2.55313E-03	+/- 1.3E-06	
Sband delay (usec)	7.83536499959E+02	Apriori clock (usec)		-2.2039106E+01	Resid sbdelay (usec)		-1.30758E-02	+/- 1.0E-05	
Phase delay (usec)	7.83549580755E+02	Apriori clockrate (us/s)		-2.0383803E-07	Resid phdelay (usec)		5.04620E-06	+/- 4.4E-09	
Delay rate (us/s)	-9.47474177015E-02	Apriori rate (us/s)		-9.47473104825E-02	Resid rate (us/s)		-1.07219E-07	+/- 4.3E-11	
Total phase (deg)	319.0		Apriori accel (us/s/s)		4.40997328901E-07	Resid phase (deg)		156.5	+/- 0.1

ph/seg (deg)	65.2	0.3	Search (1024X32)	22.198	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5					
amp/seg (%)	75.4	0.6	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000		
ph/frq (deg)	5.0	0.2	Inc. seg. avg.	31.692	Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)		-0.008	0.008
amp/frq (%)	13.2	0.3	Inc. frq. avg.	22.575	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		Data rate (TEC)		ion window (TEC)		0.00	0.00

B: az 72.0 el 35.1 pa -49.5      N: az 67.7 el 32.5 pa -55.9      u,v (fr/asec) 683.190 509.836      simultaneous interpolator

Control file: cf\_1234\_gmva      Input file: /Exps/c241c/v2/3mm/1234/No0232/BN..3MP1EA      Output file: /Exps/c241c/v2/3mm/1234/No0232/BN.W.2.3MP1EA

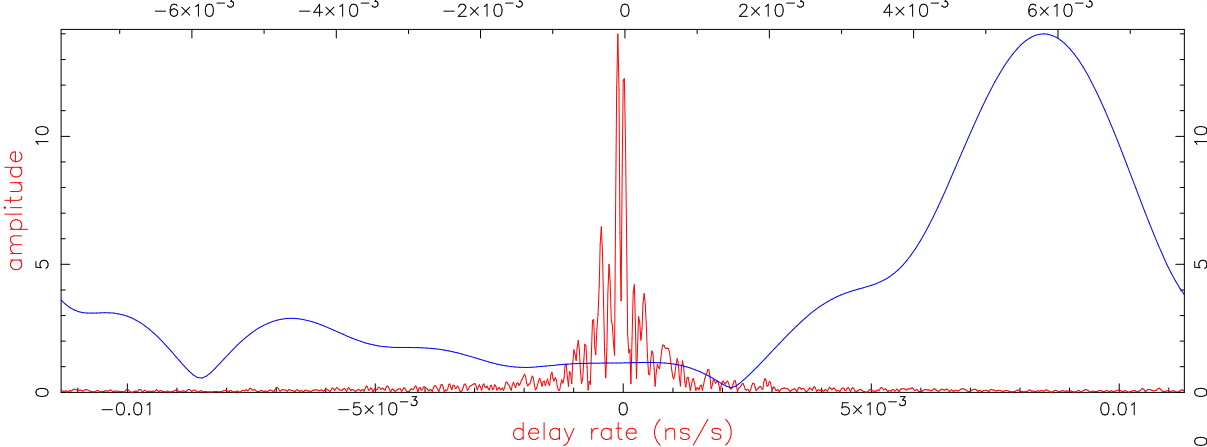
Mk4/DiFX fourfit 3.25 rev 0

aux01

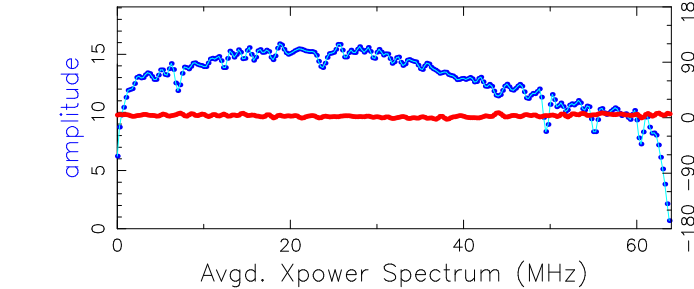
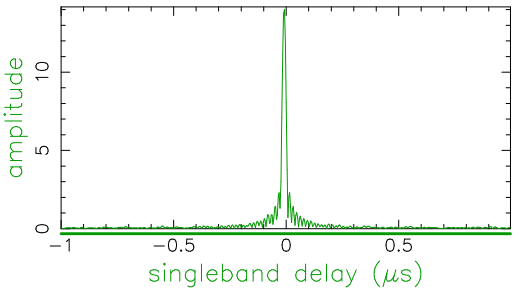
2013+370.3MP1EA, No0232, BN

EFLSBERG - NOEMA, fgroup W, pol RR

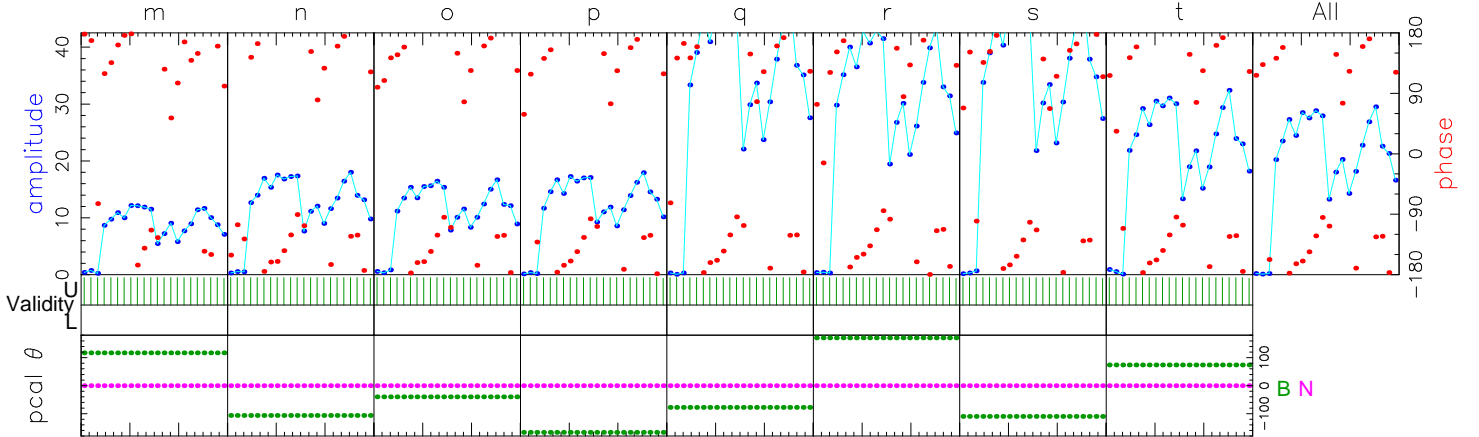
multiband delay ( $\mu$ s)



Fringe quality 3  
 Error code G  
 SNR 520.1  
 Int time 179.969  
 Amp 14.176  
 Phase -169.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.009290  
 MBD 0.005765  
 Fringe rate (Hz)  
 -0.009205  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 004000.00  
 Stop 004300.22  
 FRT 004130.00  
 Corr/FF/build  
 2024:351:093049  
 2025:041:102635  
 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
	169.4	-166.5	-168.6	-169.5	-168.1	-159.8	-175.4	-168.1	Phase	-169.2
	5.8	8.7	7.9	8.5	23.1	20.7	23.0	15.0	Ampl.	14.1
	252.6	254.3	255.1	254.9	255.2	255.0	254.8	253.3	Sbd box	254.6
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	
N	0	0	0	0	0	0	0	0	PC freqs	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:N	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD) 7.83539715835E+02 Apriori delay (usec) 7.83549575709E+02 Resid mbdelay (usec) 5.76513E-03 +/- 2.1E-06  
 Sband delay (usec) 7.83540286209E+02 Apriori clock (usec) -2.2039106E+01 Resid sbdelay (usec) -9.28950E-03 +/- 1.7E-05  
 Phase delay (usec) 7.83549570252E+02 Apriori clockrate (us/s) -2.0383803E-07 Resid phdelay (usec) -5.45645E-06 +/- 7.1E-09  
 Delay rate (us/s) -9.47474173387E-02 Apriori rate (us/s) -9.47473104825E-02 Resid rate (us/s) -1.06856E-07 +/- 6.8E-11  
 Total phase (deg) -6.7 Apriori accel (us/s/s) 4.40997328901E-07 Resid phase (deg) -169.2 +/- 0.2

RMS Theor. Amplitude 14.176 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 50.0 0.5 Search (1024X32) 13.897 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 74.4 0.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 9.9 0.3 Inc. seg. avg. 19.675 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 amp/frq (%) 48.1 0.5 Inc. frq. avg. 14.101 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

B: az 72.0 el 35.1 pa -49.5 N: az 67.7 el 32.5 pa -55.9 u,v (fr/asec) 683.190 509.836 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/BN..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BN.W.6.3MP1EA



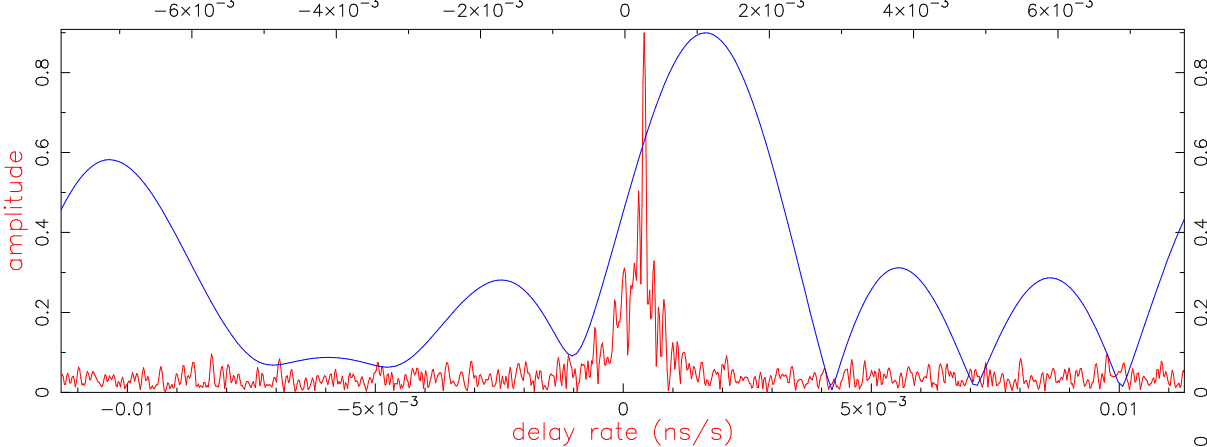
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, BP

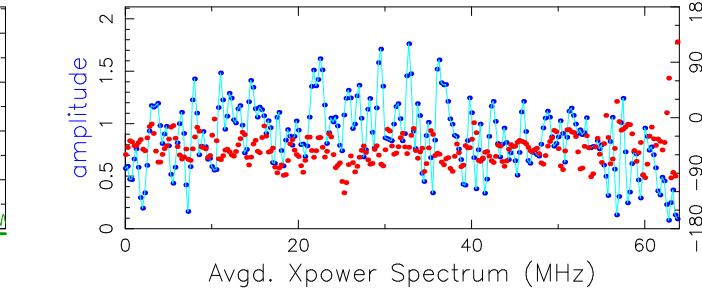
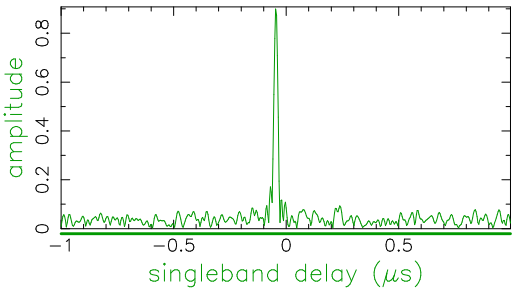
EFLSBERG - PICOVEL, fgroup W, pol LR

multiband delay ( $\mu$ s)



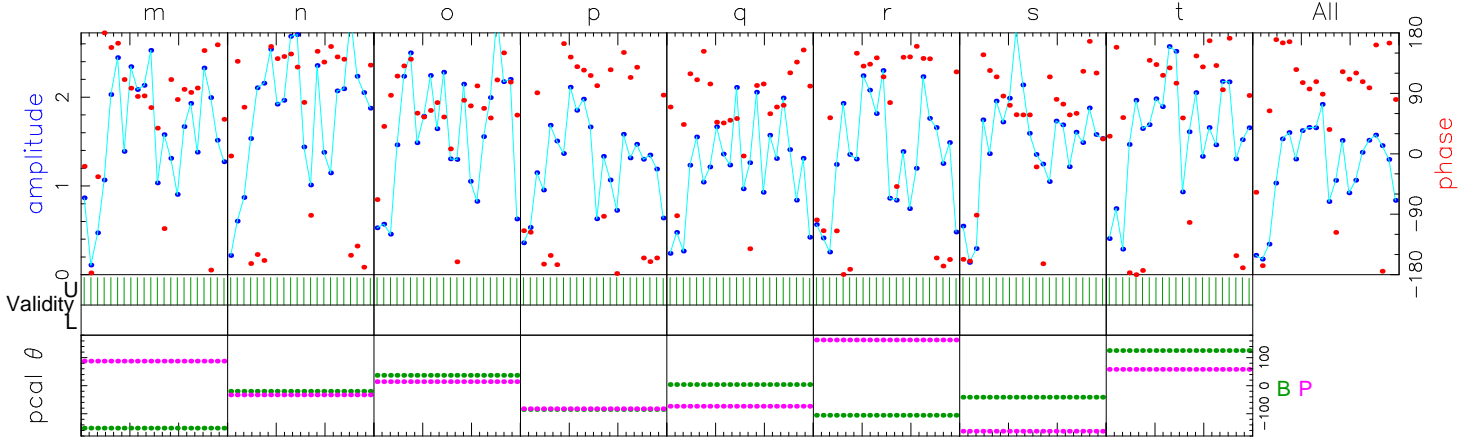
Fringe quality 4

SNR 33.3  
 Int time 179.970  
 Amp 0.908  
 Phase 127.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.045606  
 MBD 0.001134  
 Fringe rate (Hz) 0.035556  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 004000.00  
 Stop 004300.22  
 FRT 004130.00  
 Corr/FF/build  
 2024:351:093049  
 2025:041:102638  
 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
	114.7	162.8	89.3	157.7	87.8	157.6	89.3	143.9	Phase	127.2
	1.0	1.4	1.2	0.9	0.8	1.0	1.0	1.2	Ampl.	1.1
	244.4	246.0	246.2	246.5	247.2	246.3	246.6	244.9	Sbd box	245.3
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	
P	0	0	0	0	0	0	0	0	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	-151:88	-20:-33	37:15	-85:-82	4:-74	-106:163	-41:-163	125:58	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD) 3.93354389327E+03 Apriori delay (usec) 3.93358963451E+03 Resid mbdelay (usec) 1.13376E-03 +/- 3.3E-05  
 Sband delay (usec) 3.93354402876E+03 Apriori clock (usec) -3.4479527E+01 Resid sbdelay (usec) -4.56057E-02 +/- 2.6E-04  
 Phase delay (usec) 3.93358963862E+03 Apriori clockrate (us/s) -7.8777609E-07 Resid phdelay (usec) 4.10332E-06 +/- 1.1E-07  
 Delay rate (us/s) -2.18808464696E-01 Apriori rate (us/s) -2.18808877469E-01 Resid rate (us/s) 4.12773E-07 +/- 1.1E-09  
 Total phase (deg) 169.4 Apriori accel (us/s/s) -9.55350436220E-06 Resid phase (deg) 127.2 +/- 3.4

RMS Theor. Amplitude 0.908 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 59.8 8.1 Search (1024X32) 0.875 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 61.9 14.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 36.5 4.9 Inc. seg. avg. 1.195 Data rate (MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 amp/frq (%) 25.0 8.5 Inc. frq. avg. 1.052 Data rate (Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

B: az 72.0 el 35.1 pa -49.5 P: az 59.7 el 22.8 pa -60.1 u,v (fr/asec) 1569.563 611.609 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/BP..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BP.W.13.3MP1EA

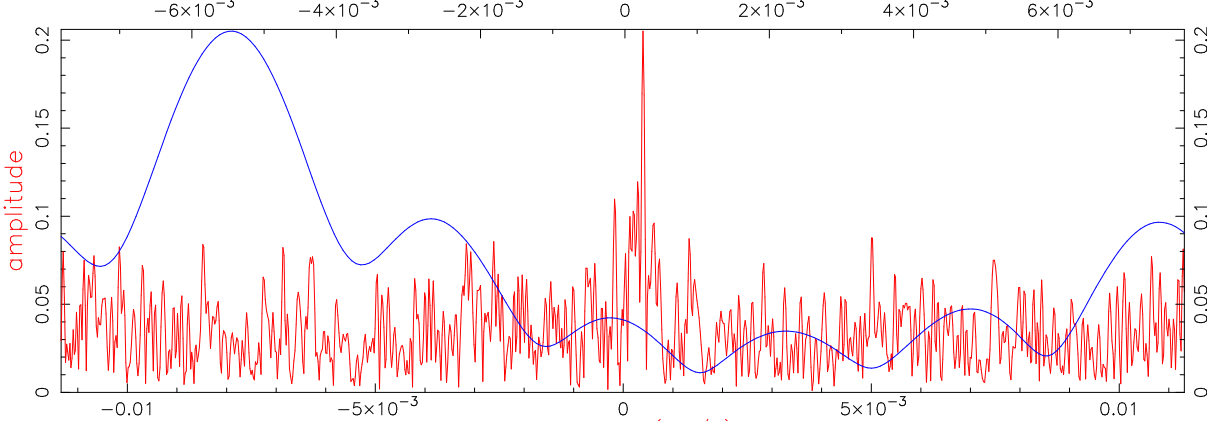
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, BP

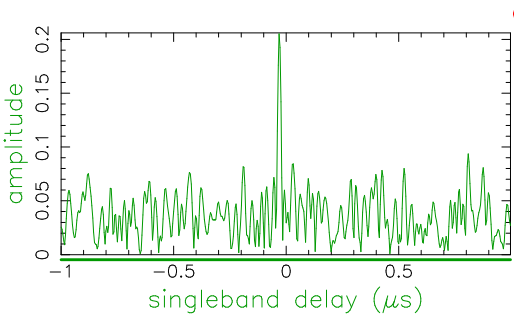
EFLSBERG - PICOVEL, fgroup W, pol RL

multiband delay ( $\mu$ s)

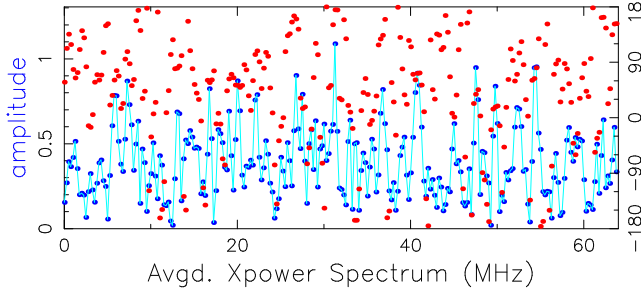


Fringe quality 9

SNR 7.6  
 Int time 179.970  
 Amp 0.206  
 Phase 143.7  
 PFD 6.7e-06  
 Delays (us)  
 SBD -0.030468  
 MBD -0.005447  
 Fringe rate (Hz)  
 0.034309  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

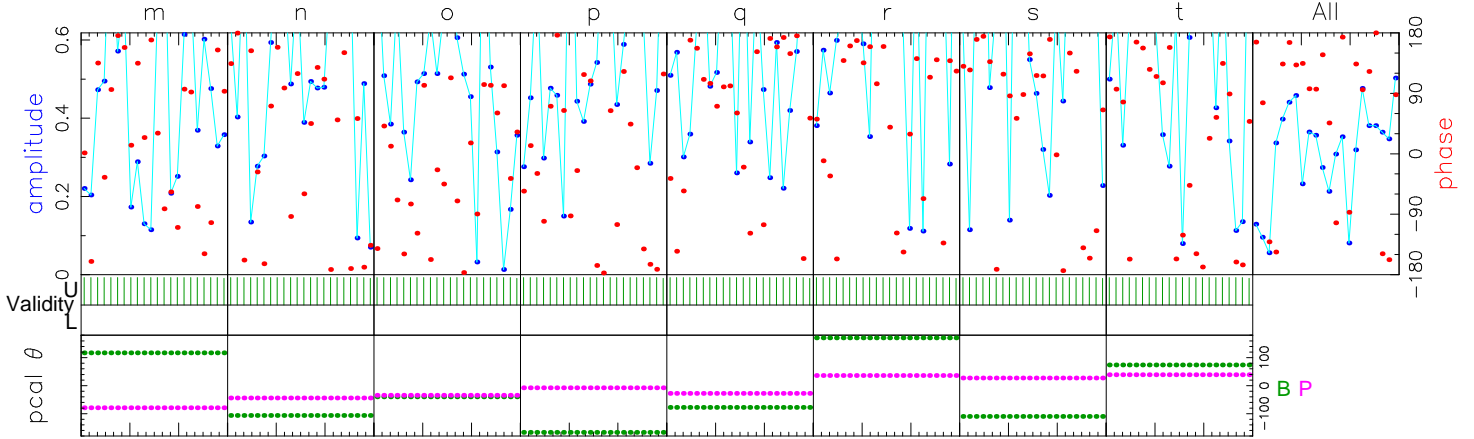


delay rate (ns/s)



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 004000.00  
 Stop 004300.22  
 FRT 004130.00  
 Corr/FF/build  
 2024:351:093049  
 2025:041:102647  
 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
	139.2	147.7	69.9	154.8	139.9	144.4	144.9	141.8	Phase	143.7
	0.1	0.3	0.0	0.0	0.2	0.4	0.4	0.3	Ampl.	0.2
	357.7	248.3	444.2	87.2	315.4	248.9	250.5	248.8	Sbd box	249.2
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	
P	0	0	0	0	0	0	0	0	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	118:-79	-106:-44	-40:-34	-167:-8	-77:-28	171:36	-110:27	74:39	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	3.93355293772E+03	Apriori delay (usec)	3.93358963451E+03	Resid mbdelay (usec)	-5.44679E-03	+/-	1.4E-04
Sband delay (usec)	3.93355916701E+03	Apriori clock (usec)	-3.4479527E+01	Resid sbdelay (usec)	-3.04675E-02	+/-	1.1E-03
Phase delay (usec)	3.93358963915E+03	Apriori clockrate (us/s)	-7.8777609E-07	Resid phdelay (usec)	4.63326E-06	+/-	4.9E-07
Delay rate (us/s)	-2.18808479180E-01	Apriori rate (us/s)	-2.18808877469E-01	Resid rate (us/s)	3.98289E-07	+/-	4.7E-09
Total phase (deg)	185.8	Apriori accel (us/s/s)	-9.55350436220E-06	Resid phase (deg)	143.7	+/-	15.2

ph/seg (deg)	59.6	RMS	59.6	Theor.	35.6	Amplitude	0.206 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	79.7	Search (1024X32)	0.203	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	30.6	Inc. seg. avg.	0.262	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.011 0.011	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00
amp/frq (%)	64.5	Inc. frq. avg.	0.193	Data rate(Mb/s): 2048						

B: az 72.0 el 35.1 pa -49.5 P: az 59.7 el 22.8 pa -60.1 u,v (fr/asec) 1569.563 611.609 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/BP..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BP.W.33.3MP1EA

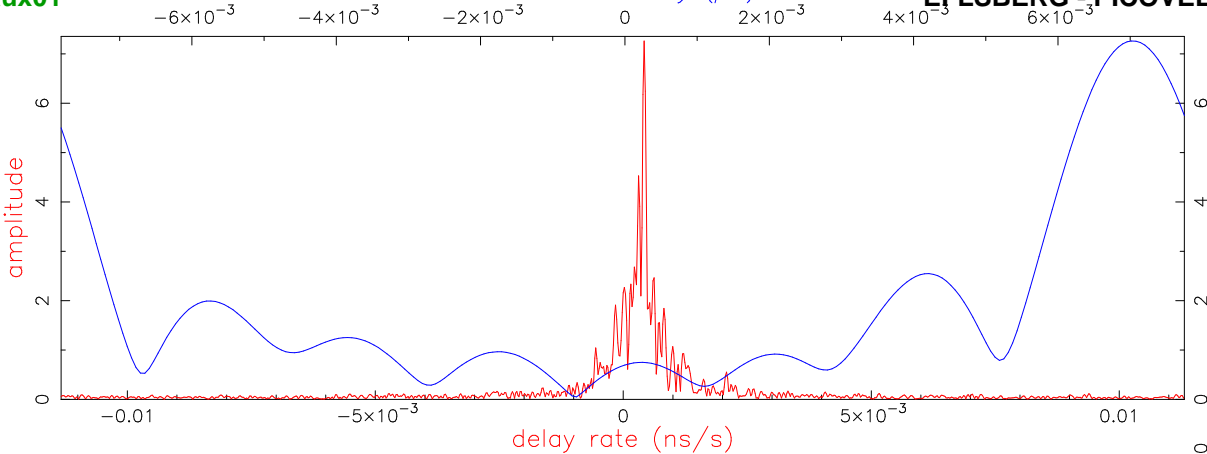
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, BP

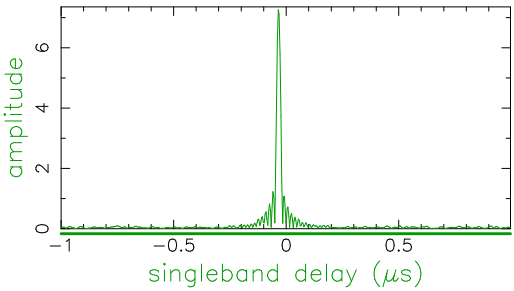
EFLSBERG - PICOVEL, fgroup W, pol LL

multiband delay ( $\mu$ s)

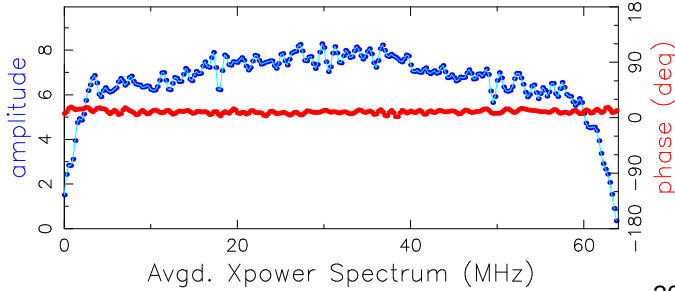


Fringe quality 4

SNR 269.7  
 Int time 179.970  
 Amp 7.356  
 Phase -100.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.033676  
 MBD 0.007075  
 Fringe rate (Hz)  
 0.035400  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

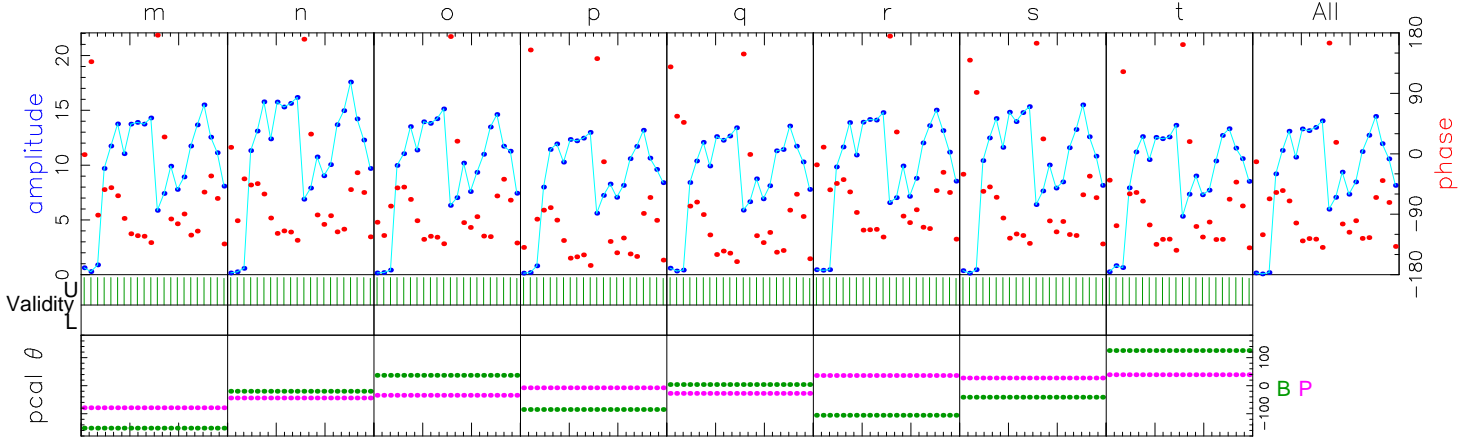


delay rate (ns/s)



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 004000.00  
 Stop 004300.22  
 FRT 004130.00  
 Corr/FF/build  
 2024:351:093049  
 2025:041:102634  
 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
	-92.8	-88.9	-97.2	-126.3	-120.0	-86.1	-95.5	-103.2	Phase	-100.3
	7.6	8.6	7.6	6.8	6.8	7.7	7.7	6.9	Ampl.	7.5
	247.0	248.0	248.5	248.9	249.3	248.8	248.8	247.5	Sbd box	248.4
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	
P	0	0	0	0	0	0	0	0	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	-151:-79	-20:-44	37:-34	-85:-8	4:-28	-106:36	-41:27	125:39	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD) 3.93354983480E+03 Apriori delay (usec) 3.93358963451E+03 Resid mbdelay (usec) 7.07529E-03 +/- 4.0E-06  
 Sband delay (usec) 3.93355595826E+03 Apriori clock (usec) -3.4479527E+01 Resid sbdelay (usec) -3.36763E-02 +/- 3.2E-05  
 Phase delay (usec) 3.93358963128E+03 Apriori clockrate (us/s) -7.8777609E-07 Resid phdelay (usec) -3.23496E-06 +/- 1.4E-08  
 Delay rate (us/s) -2.18808466511E-01 Apriori rate (us/s) -2.18808877469E-01 Resid rate (us/s) 4.10958E-07 +/- 1.3E-10  
 Total phase (deg) -58.2 Apriori accel (us/s/s) -9.55350436220E-06 Resid phase (deg) -100.3 +/- 0.4

RMS Theor. Amplitude 7.356 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 47.3 1.0 Search (1024X32) 6.934 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 65.1 1.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 15.8 0.6 Inc. seg. avg. 9.372 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 amp/frq (%) 7.8 1.0 Inc. frq. avg. 7.464 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

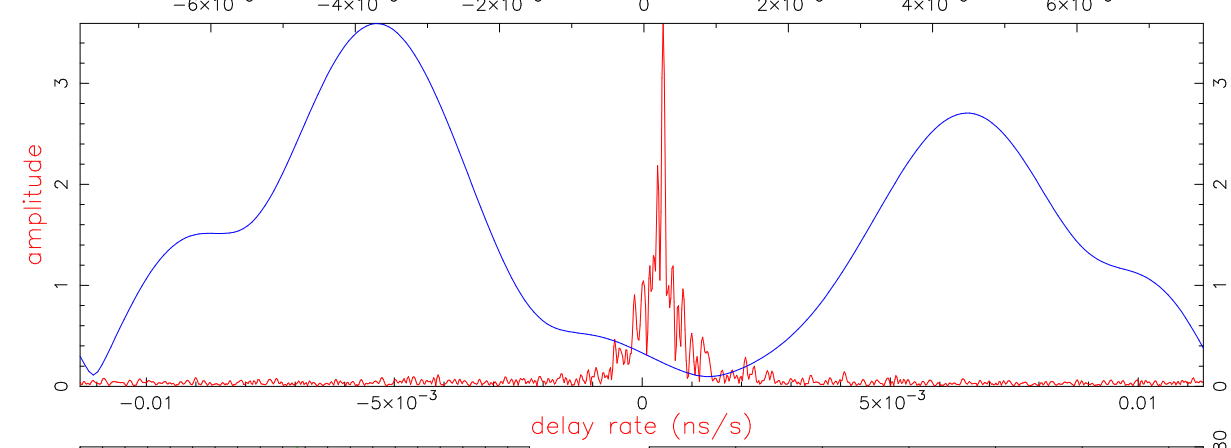
B: az 72.0 el 35.1 pa -49.5 P: az 59.7 el 22.8 pa -60.1 u,v (fr/asec) 1569.563 611.609 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/BP..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BP.W.3.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

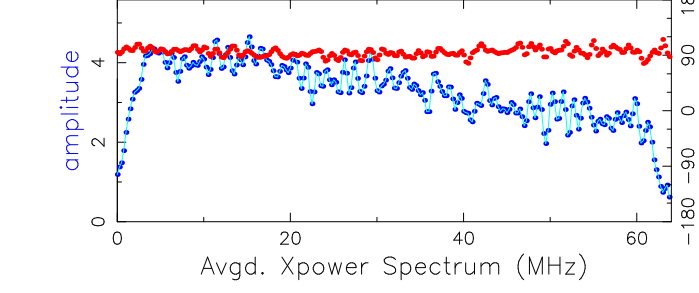
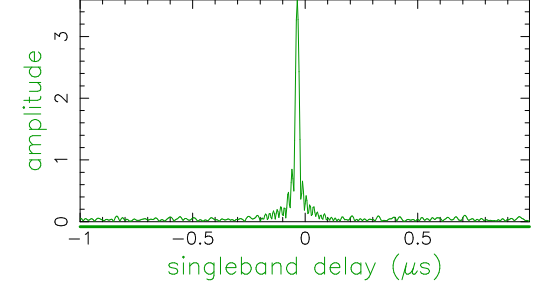
aux01

2013+370.3MP1EA, No0232, BP

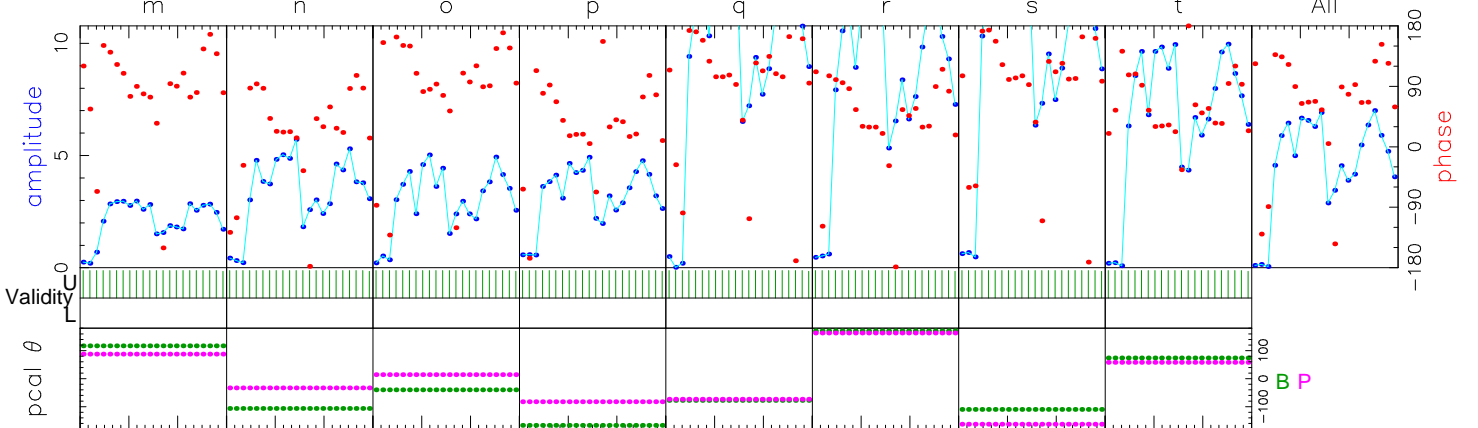
EFLSBERG - PICOVEL, fgroup W, pol RR



Fringe quality 1  
 Error code G  
 SNR 131.8  
 Int time 179.970  
 Amp 3.594  
 Phase 92.9  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.035131  
 MBD -0.003701  
 Fringe rate (Hz)  
 0.035372  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 004000.00  
 Stop 004300.22  
 FRT 004130.00  
 Corr/FF/build  
 2024:351:093049  
 2025:041:102636  
 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
	106.8	48.6	117.2	42.9	130.1	56.3	128.7	60.0	Phase	92.9
	1.7	2.6	2.3	2.4	7.6	6.5	7.4	5.2	Ampl.	4.5
	245.2	246.8	247.2	247.4	247.9	247.3	247.7	246.0	Sbd box	248.0
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	
P	0	0	0	0	0	0	0	0	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	118:88	-106:-33	-40:15	-167:-82	-77:-74	171:163	-110:-163	74:58	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	3.93355468389E+03	Apriori delay (usec)	3.93358963451E+03	Resid mbdelay (usec)	-3.70062E-03	+/-	8.2E-06
Sband delay (usec)	3.93355450351E+03	Apriori clock (usec)	-3.4479527E+01	Resid sbdelay (usec)	-3.51310E-02	+/-	6.5E-05
Phase delay (usec)	3.93358963751E+03	Apriori clockrate (us/s)	-7.8777609E-07	Resid phdelay (usec)	2.99493E-06	+/-	2.8E-08
Delay rate (us/s)	-2.18808466837E-01	Apriori rate (us/s)	-2.18808877469E-01	Resid rate (us/s)	4.10632E-07	+/-	2.7E-10
Total phase (deg)	135.0	Apriori accel (us/s/s)	-9.55350436220E-06	Resid phase (deg)	92.9	+/-	0.9

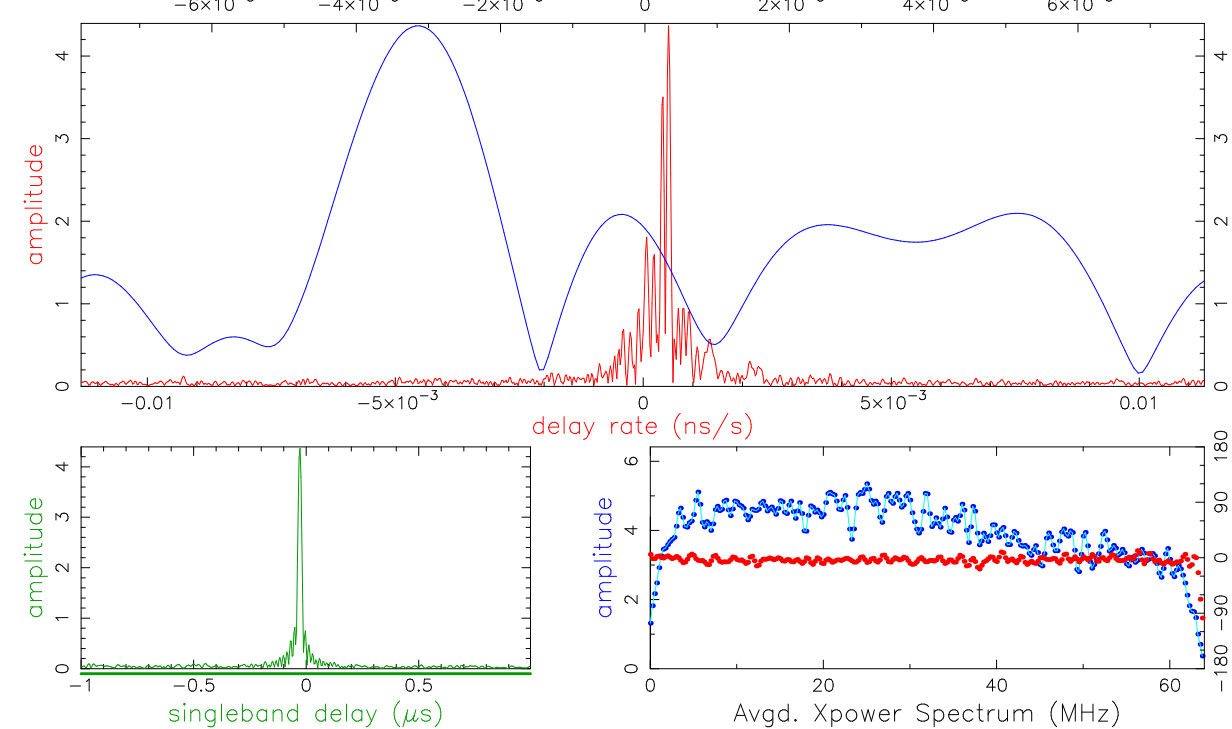
ph/seg (deg) 64.3 2.0 Search (1024X32) 3.426 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 65.7 3.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 41.5 1.2 Inc. seg. avg. 4.619 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 69.1 2.1 Inc. frq. avg. 4.455 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 B: az 72.0 el 35.1 pa -49.5 P: az 59.7 el 22.8 pa -60.1 u,v (fr/asec) 1569.563 611.609 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/BP..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BP.W.9.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, BX

EFLSBERG - ONSALA60, fgroup W, pol LL

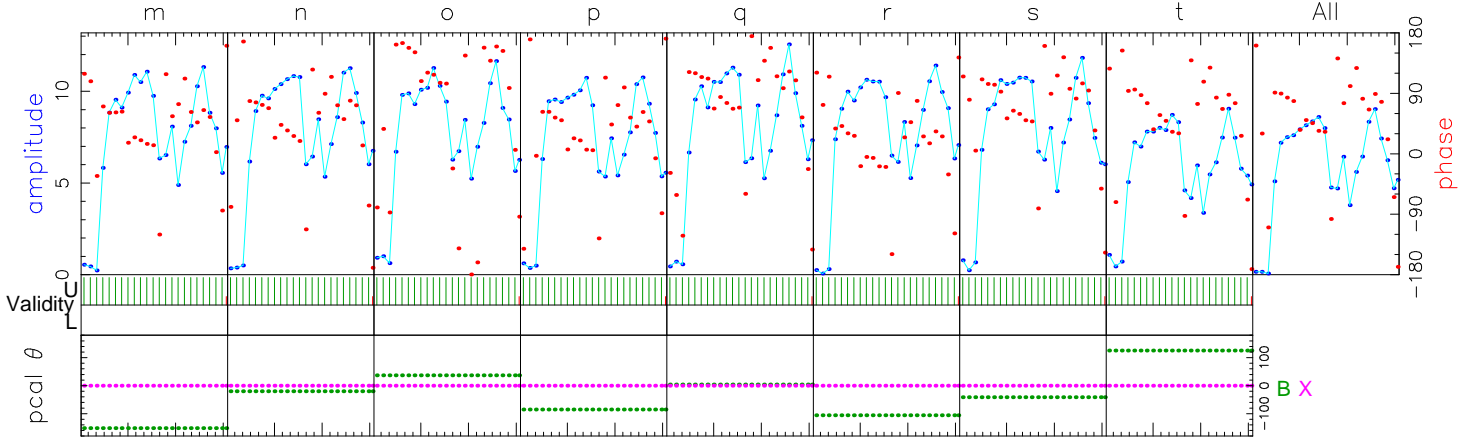


Fringe quality 2

SNR 160.6  
 Int time 178.950  
 Amp 4.395  
 Phase 67.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.028364  
 MBD -0.003168  
 Fringe rate (Hz) 0.044662  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512

Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 004001.02  
 Stop 004300.22  
 FRT 004130.00  
 Corr/FF/build  
 2024:351:093049  
 2025:041:102640  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 24 segs, 15 APs / seg (7.68 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
	46.3	56.7	140.9	39.3	99.4	15.1	82.9	68.7	Phase	67.3
	5.5	5.7	5.5	5.4	5.8	5.6	5.6	4.2	Ampl.	5.4
	249.4	249.2	249.7	249.5	249.7	249.5	249.5	248.8	Sbd box	249.7
U/L	350/0	350/0	350/0	350/0	350/0	350/0	350/0	350/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	-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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD) -1.46970444779E+03 Apriori delay (usec) -1.46967002997E+03 Resid mbdelay (usec) -3.16782E-03 +/- 6.8E-06  
 Sband delay (usec) -1.46969839422E+03 Apriori clock (usec) 4.144 Pcal rate: 0.000E+00, 0.000E+00 (us/s) Resid sbdelay (usec) -2.83643E-02 +/- 5.4E-05  
 Phase delay (usec) -1.46967002780E+03 Apriori clockrate (us/s) -1.4061621E-06 Resid phdelay (usec) 2.16896E-06 +/- 2.3E-08  
 Delay rate (us/s) 1.32210801443E-01 Apriori rate (us/s) 1.32210282962E-01 Resid rate (us/s) 5.18481E-07 +/- 2.2E-10  
 Total phase (deg) -70.2 Apriori accel (us/s/s) 2.20151298426E-06 Resid phase (deg) 67.3 +/- 0.7

RMS Theor. Amplitude 4.395 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 68.5 1.7 Search (1024X32) 4.144 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 69.4 3.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 42.4 1.0 Inc. seg. avg. 5.918 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 amp/frq (%) 25.3 1.8 Inc. frq. avg. 5.405 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

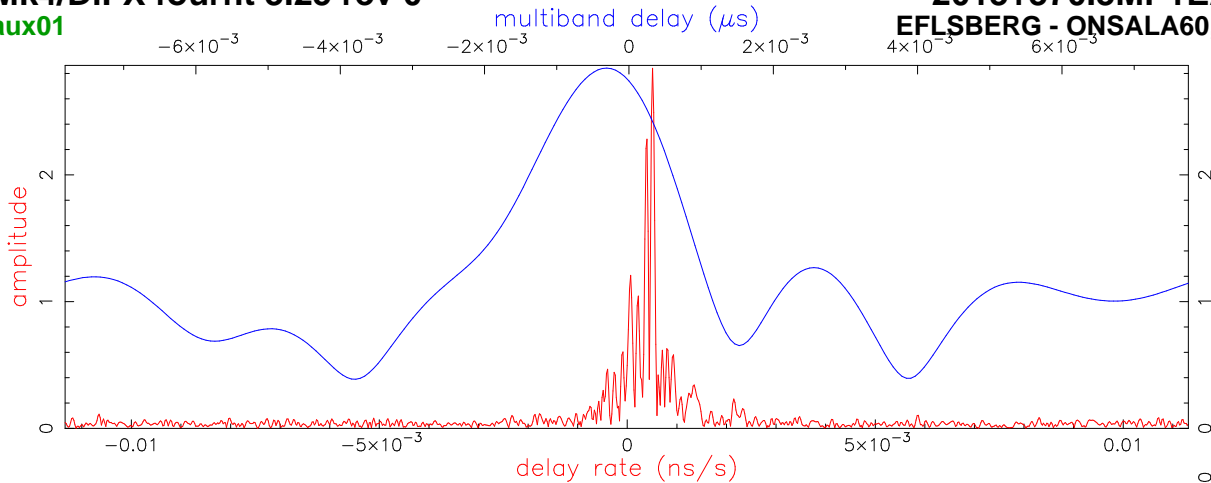
B: az 72.0 el 35.1 pa -49.5 X: az 80.6 el 39.7 pa -41.9 u,v (fr/asec) -950.656 -360.639 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/BX..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BX.W.17.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

aux01

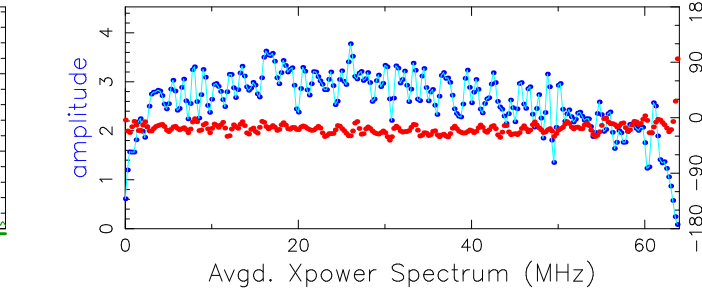
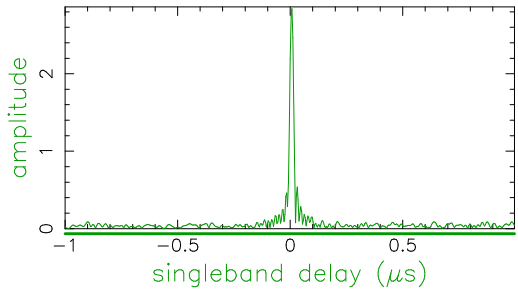
2013+370.3MP1EA, No0232, BX

EFLSBERG - ONSALA60, fgroup W, pol RR



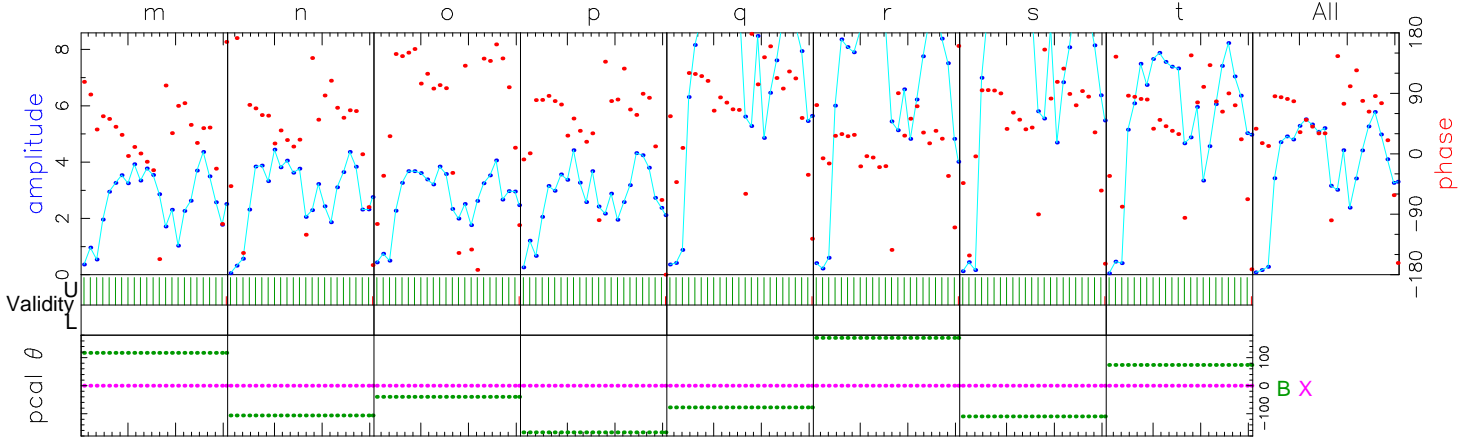
Fringe quality 1

SNR 104.7  
 Int time 178.950  
 Amp 2.864  
 Phase 63.9  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.006697  
 MBD -0.000345  
 Fringe rate (Hz) 0.044626  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 004001.02  
 Stop 004300.22  
 FRT 004130.00  
 Corr/FF/build  
 2024:351:093049  
 2025:041:102647  
 2024:113:095956  
 RA & Dec (J2000)  
 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 24 segs, 15 APs / seg (7.68 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	350/0	350/0	350/0	350/0	350/0	350/0	350/0	350/0		
B	0	0	0	0	0	0	0	0		
X	0	0	0	0	0	0	0	0		
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:X	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		
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	-1.46967037466E+03	Apriori delay (usec)	-1.46967002997E+03	Resid mbdelay (usec)	-3.44692E-04	+/-	1.0E-05
Sband delay (usec)	-1.46966333272E+03	Apriori clock (usec)	-1.4825607E+02	Resid sbdelay (usec)	6.69725E-03	+/-	8.2E-05
Phase delay (usec)	-1.46967002791E+03	Apriori clockrate (us/s)	-1.4061621E-02	Resid phdelay (usec)	2.05964E-06	+/-	3.5E-08
Delay rate (us/s)	1.32210801028E-01	Apriori rate (us/s)	1.32210282962E-01	Resid rate (us/s)	5.18066E-07	+/-	3.4E-10
Total phase (deg)	-73.5	Apriori accel (us/s/s)	2.20151298426E-06	Resid phase (deg)	63.9	+/-	1.1

ph/seg (deg) 56.1 2.7 Search (1024X32) 2.743 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 68.2 4.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 41.6 1.5 Inc. seg. avg. 3.864 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 56.7 2.7 Inc. frq. avg. 3.395 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 B: az 72.0 el 35.1 pa -49.5 X: az 80.6 el 39.7 pa -41.9 u,v (fr/asec) -950.656 -360.639 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/BX..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BX.W.34.3MP1EA

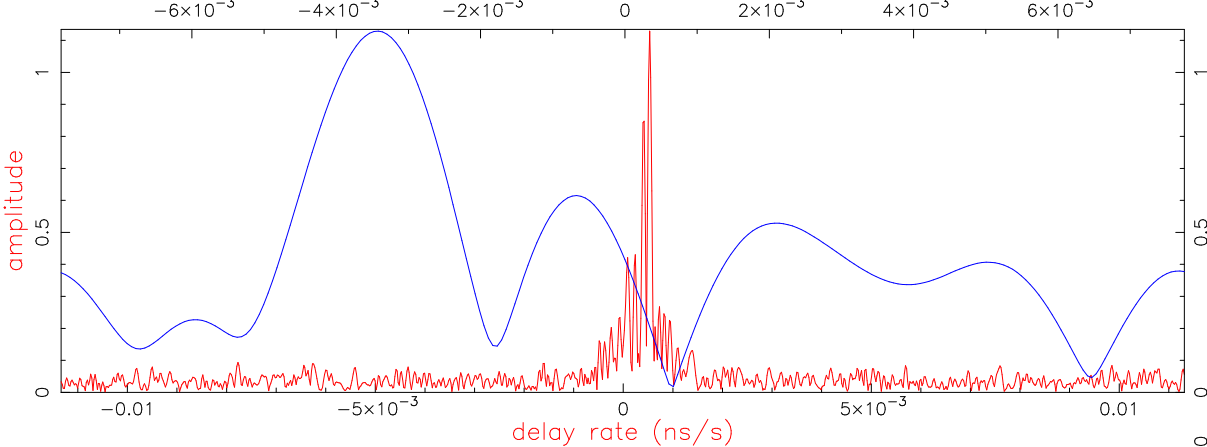
Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, BX

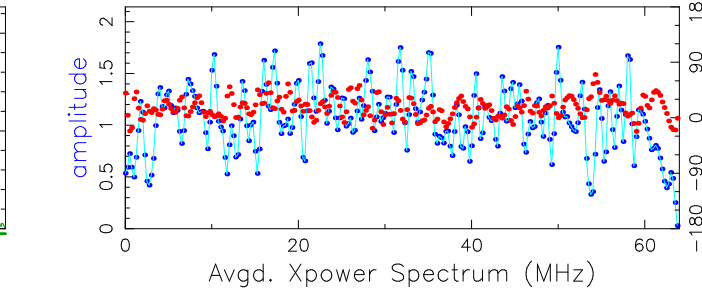
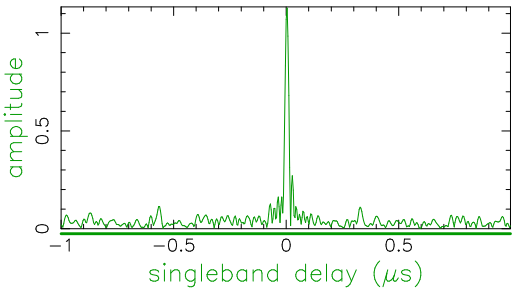
EFLSBERG - ONSALA60, fgroup W, pol LR

multiband delay ( $\mu$ s)



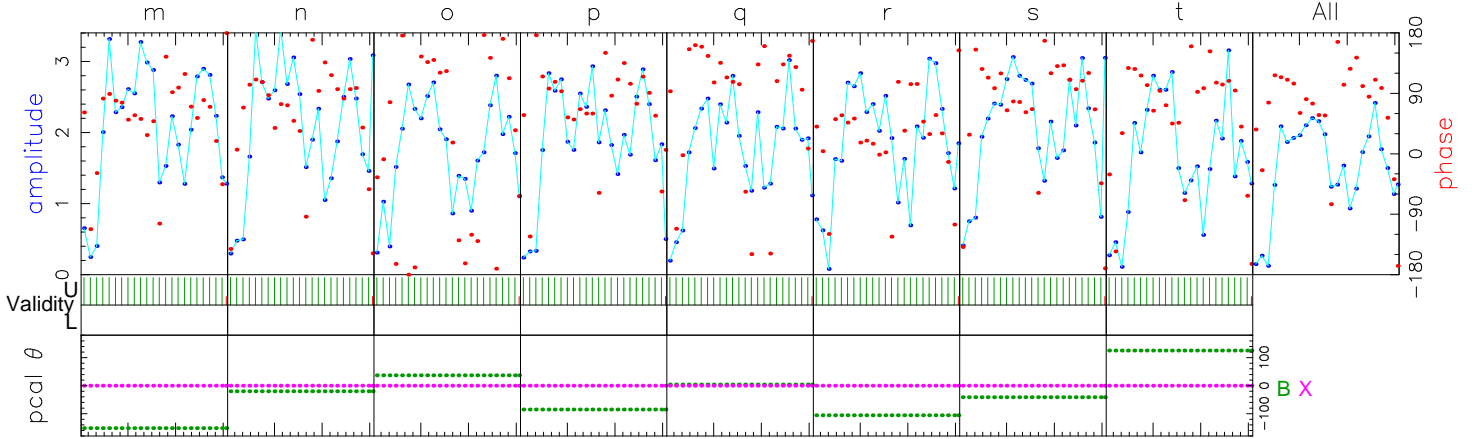
Fringe quality 4

SNR 41.5  
 Int time 178.950  
 Amp 1.134  
 Phase 91.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.003076  
 MBD -0.003456  
 Fringe rate (Hz) 0.044902  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 004001.02  
 Stop 004300.22  
 FRT 004130.00  
 Corr/FF/build 2024:351:093049  
 2025:041:102652  
 2024:113:095956  
 RA & Dec (J2000) 20h15m28.729786s  
 +37°10'59.514736"

Amp. and Phase vs. time for each freq., 24 segs, 15 APs / seg (7.68 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
	65.7	84.1	161.8	86.9	132.9	34.3	99.1	91.7	Phase	91.3
	1.6	1.5	1.1	1.4	1.3	1.4	1.5	1.1	Ampl.	1.4
	257.6	257.4	257.3	257.7	257.6	257.3	257.6	256.7	Sbd box	257.8
U/L	350/0	350/0	350/0	350/0	350/0	350/0	350/0	350/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-1.46967348639E+03	Apriori delay (usec)	-1.46967002997E+03	Resid mbdelay (usec)	-3.45642E-03	+/-	2.6E-05
Sband delay (usec)	-1.46966695397E+03	Apriori clock (usec)	-1.4825607E+02	Resid sbdelay (usec)	3.07600E-03	+/-	2.1E-04
Phase delay (usec)	-1.46967002703E+03	Apriori clockrate (us/s)	-1.4061621E-06	Resid phdelay (usec)	2.94561E-06	+/-	8.9E-08
Delay rate (us/s)	1.32210804235E-01	Apriori rate (us/s)	1.32210282962E-01	Resid rate (us/s)	5.21273E-07	+/-	8.6E-10
Total phase (deg)	-46.1	Apriori accel (us/s/s)	2.20151298426E-06	Resid phase (deg)	91.3	+/-	2.8

ph/seg (deg)	RMS 59.0	Theor. 6.8	Amplitude Search (1024X32)	1.134 +/- 0.027	1.088	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	65.3	11.8	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	42.3	3.9	Inc. seg. avg.	1.499	1.499	Data rate(Mb/s): 2048	nlags: 256	dr window (ns/s)	-0.011	0.011
amp/frq (%)	24.9	6.8	Inc. frq. avg.	1.362	1.362	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 72.0 el 35.1 pa -49.5 X: az 80.6 el 39.7 pa -41.9 u, v (fr/asec) -950.656 -360.639 simultaneous interpolator

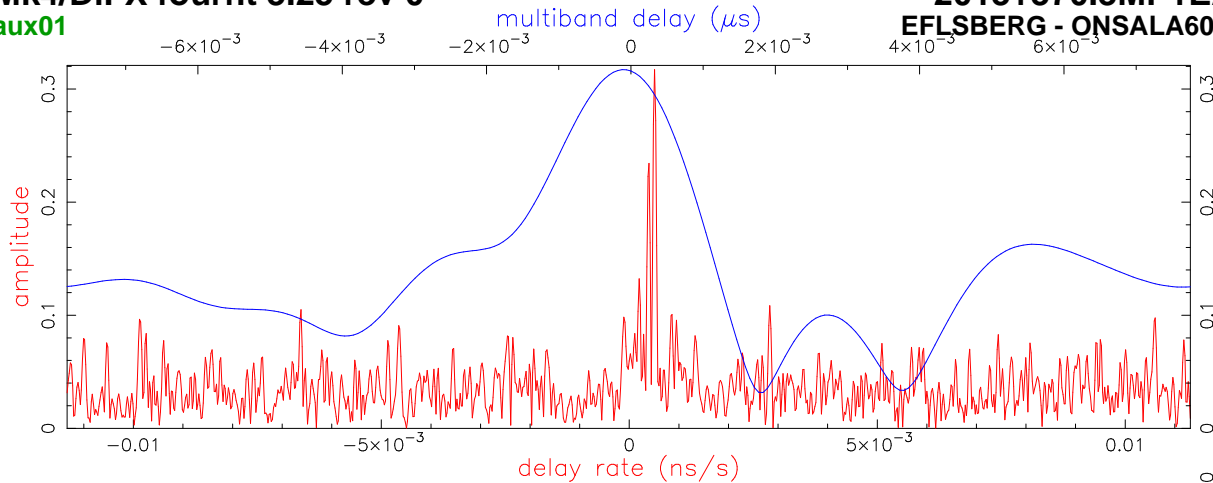
Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/BX..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BX.W.46.3MP1EA

# Mk4/DiFX fourfit 3.25 rev 0

aux01

# 2013+370.3MP1EA, No0232, BX

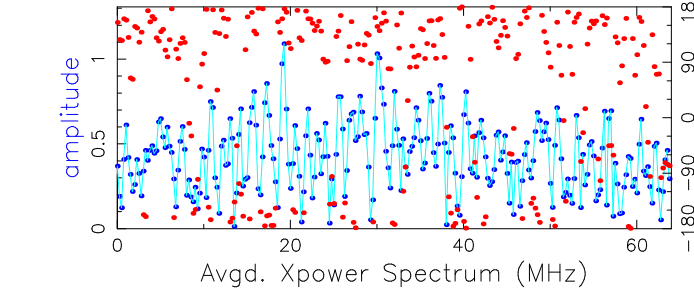
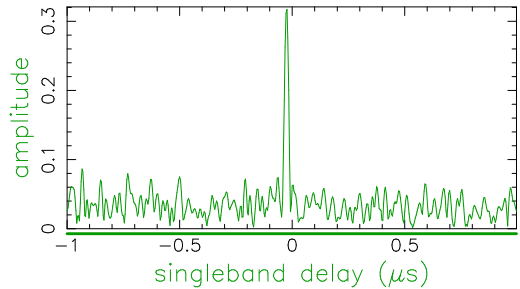
EFLSBERG - ONSALA60, fgroup W, pol RL



Fringe quality 9

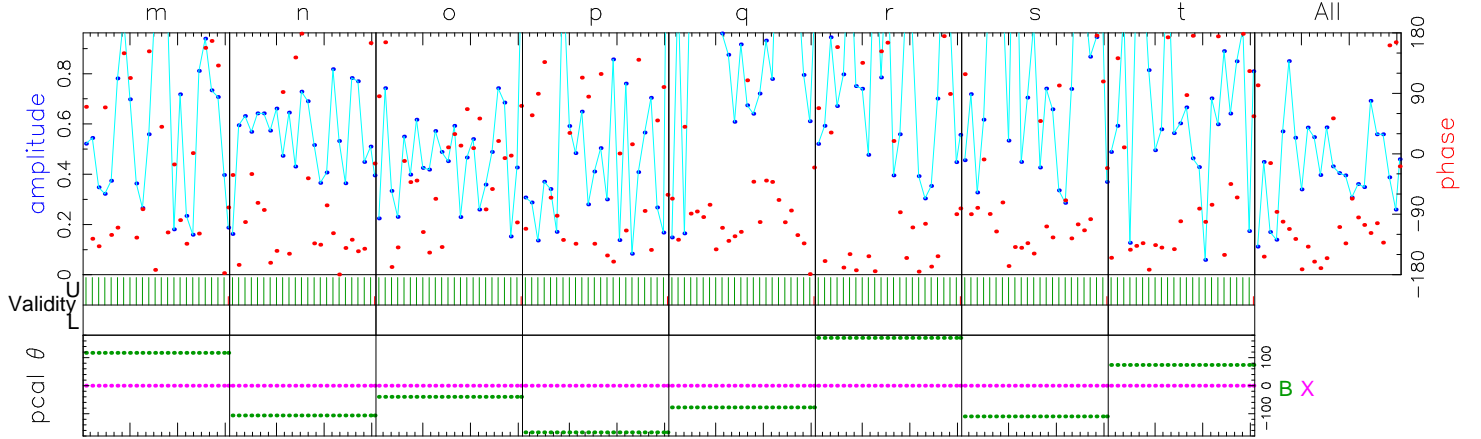
SNR 11.7  
 Int time 178.950  
 Amp 0.321  
 Phase -129.2  
 PFD 2.2e-23  
 Delays (us)  
 SBD -0.024924  
 MBD -0.000102  
 Fringe rate (Hz) 0.044734  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512

Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 004001.02  
 Stop 004300.22  
 FRT 004130.00  
 Corr/FF/build 2024:351:093049  
 2025:041:102654  
 2024:113:095956  
 RA & Dec (J2000) 20h15m28.729786s +37°10'59.514736"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 24 segs, 15 APs / seg (7.68 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				
	-169.3	-131.9	-25.1	-145.5	-97.3	-174.5	-120.0	-145.1	Phase	-129.2				
	0.3	0.4	0.2	0.2	0.8	0.5	0.5	0.4	Ampl.	0.4				
	249.3	250.1	144.0	127.9	250.5	250.6	250.1	249.3	Sbd box	250.6				
U/L	350/0	350/0	350/0	350/0	350/0	350/0	350/0	350/0	APs used					
B	0	0	0	0	0	0	0	0	PC freqs					
X	0	0	0	0	0	0	0	0	PC freqs					
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
B:X	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0	Mani PC					
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
X	1000	1000	1000	1000	1000	1000	1000	1000						
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids					
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks					
									Tracks					
Group delay (usec) (SBD)	-1.46970138238E+03								Apriori delay (usec)	-1.46967002997E+03	Resid mbdelay (usec)	-1.02411E-04	+/-	9.3E-05
Sband delay (usec)	-1.46969495397E+03								Apriori clock (usec)	-1.4825607E+02	Resid sbdelay (usec)	-2.49240E-02	+/-	7.3E-04
Phase delay (usec)	-1.46967003414E+03								Apriori clockrate (us/s)	-1.4061621E-06	Resid phdelay (usec)	-4.16555E-06	+/-	3.2E-07
Delay rate (us/s)	1.32210802285E-01								Apriori rate (us/s)	1.32210282962E-01	Resid rate (us/s)	5.19323E-07	+/-	3.0E-09
Total phase (deg)			-266.6						Apriori accel (us/s/s)	2.20151298426E-06	Resid phase (deg)	-129.2	+/-	9.8

ph/seg (deg) 62.2 23.9 Search (1024X32) 0.302 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 64.6 41.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 51.8 13.8 Inc. seg. avg. 0.401 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 65.5 24.1 Inc. frq. avg. 0.375 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 B: az 72.0 el 35.1 pa -49.5 X: az 80.6 el 39.7 pa -41.9 u,v (fr/asec) -950.656 -360.639 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/BX..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BX.W.60.3MP1EA

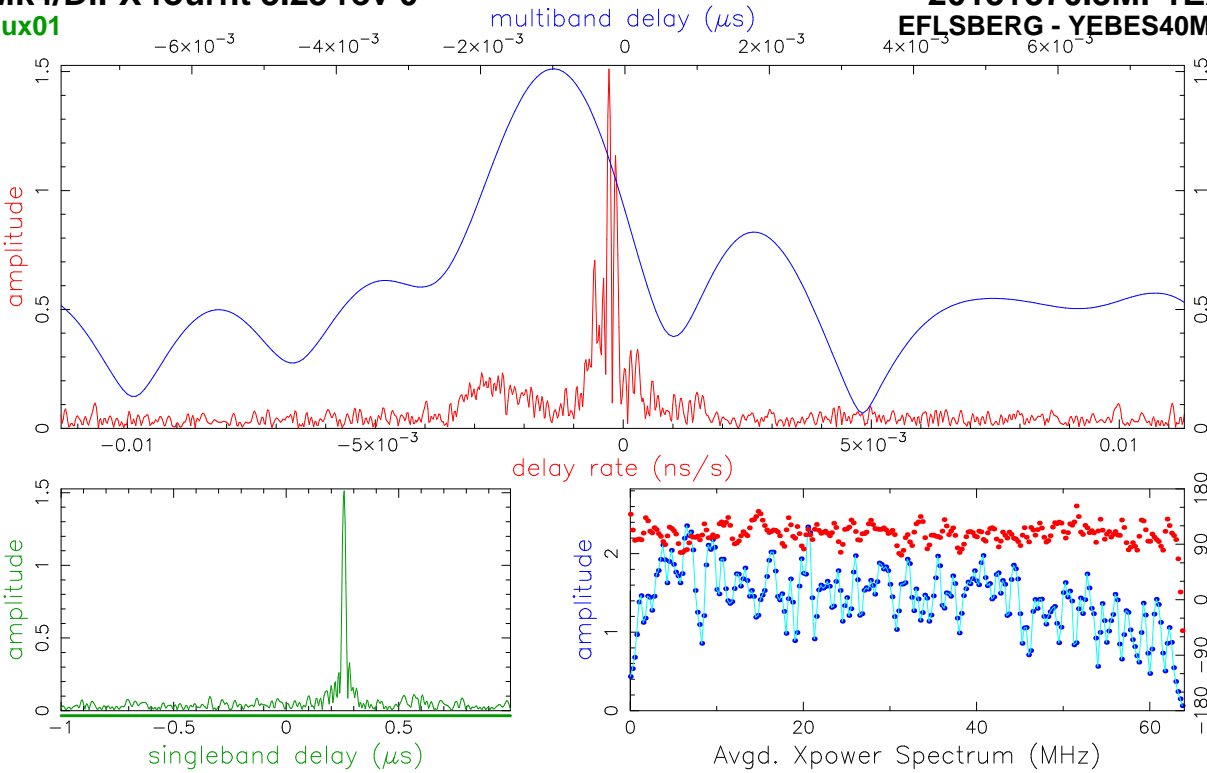


Mk4/DiFX fourfit 3.25 rev 0

aux01

2013+370.3MP1EA, No0232, BY

EFLSBERG - YEBES40M, fgroup W, pol LL

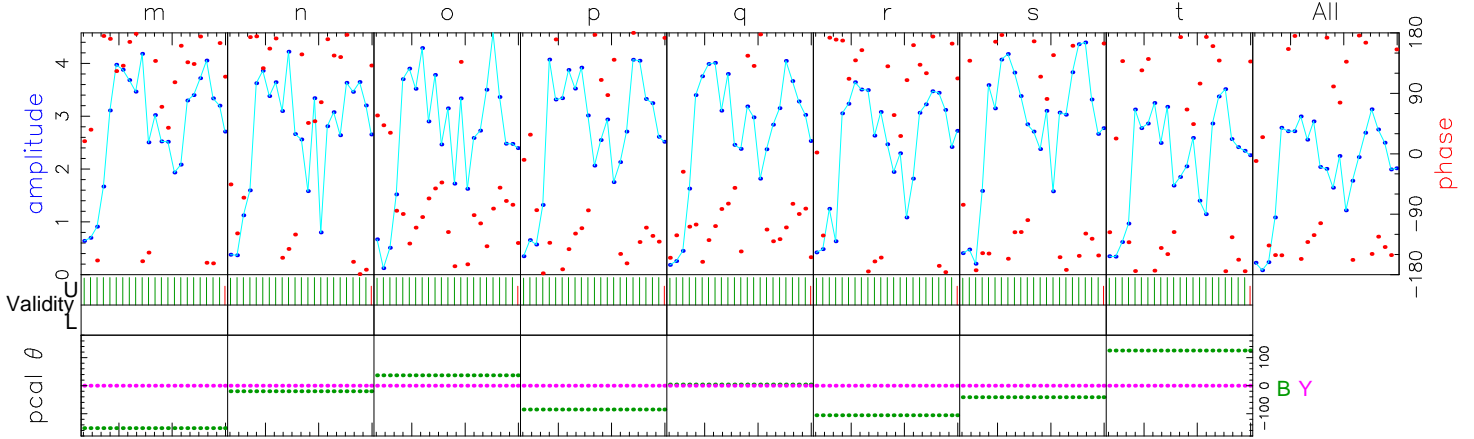


Fringe quality 2

SNR 53.2  
 Int time 162.292  
 Amp 1.526  
 Phase -164.4  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.256535  
 MBD -0.001027  
 Fringe rate (Hz)  
 -0.024020  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 004017.41  
 Stop 004300.22  
 FRT 004130.00  
 Corr/FF/build  
 2024:351:093049  
 2025:041:102648  
 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
	156.2	170.5	-96.5	-150.0	-116.2	154.7	-160.7	172.6	Phase	-164.4
	2.1	1.9	2.0	1.9	2.0	1.8	2.1	1.5	Ampl.	1.9
	322.5	322.2	322.5	322.7	322.4	322.1	322.4	321.2	Sbd box	322.7
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	-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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	3.40071540414E+03	Apriori delay (usec)	3.40046643065E+03	Resid mbdelay (usec)	-1.02651E-03	+/-	2.0E-05
Sband delay (usec)	3.40072296565E+03	Apriori clock (usec)	7.5212791E+01	Resid sbdelay (usec)	2.56535E-01	+/-	1.6E-04
Phase delay (usec)	3.40046642535E+03	Apriori clockrate (us/s)	1.2662300E-06	Resid phdelay (usec)	-5.30196E-06	+/-	7.0E-08
Delay rate (us/s)	-1.71747849483E-01	Apriori rate (us/s)	-1.71747570637E-01	Resid rate (us/s)	-2.78846E-07	+/-	7.4E-10
Total phase (deg)	-43.4	Apriori accel (us/s/s)	-9.33566500734E-06	Resid phase (deg)	-164.4	+/-	2.2

ph/seg (deg)	RMS 64.7	Theor. 5.2	Amplitude Search (1024X32)	1.526 +/- 0.029	1.472	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	66.8	9.0	Interp.	0.000	1.472	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	43.8	3.0	Inc. seg. avg.	2.018	1.472	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	28.0	5.3	Inc. frq. avg.	1.905	1.472	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 72.0 el 35.1 pa -49.5 Y: az 61.1 el 24.8 pa -56.9 u,v (fr/asec) 1230.360 296.325 simultaneous interpolator

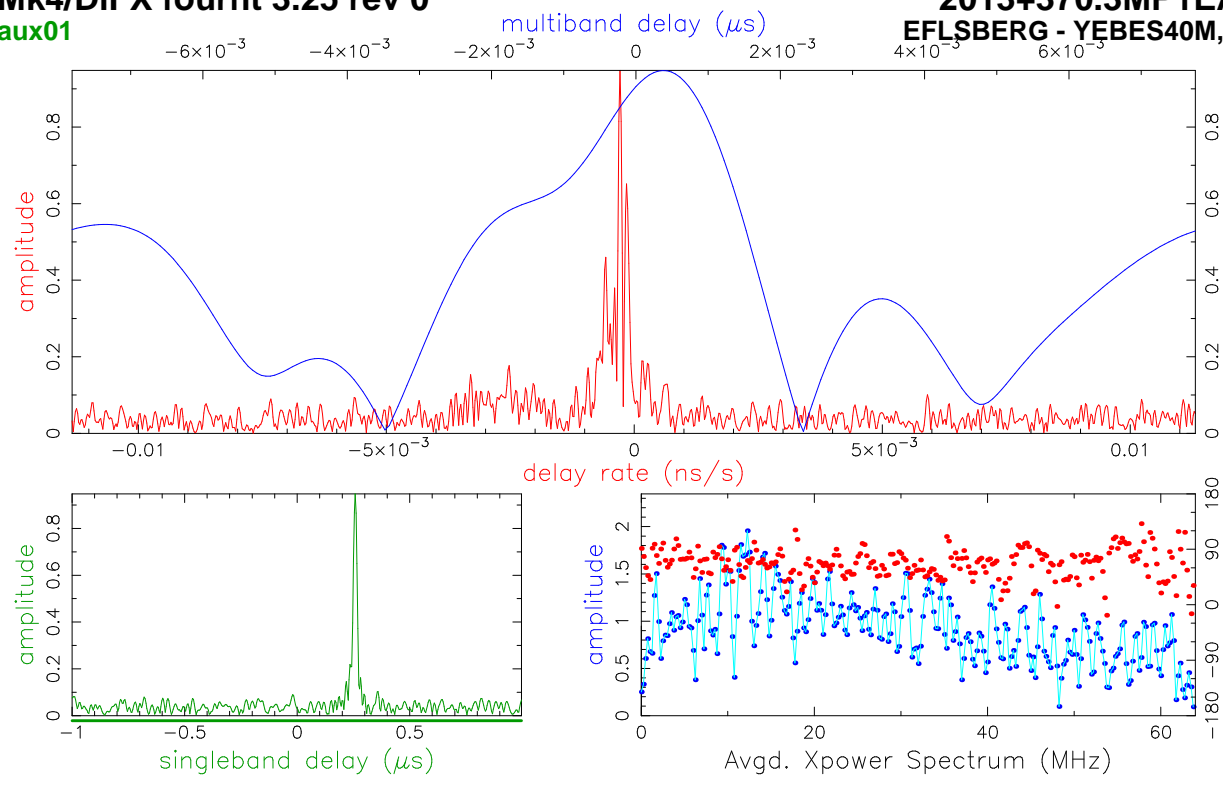
Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/BY..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BY.W.40.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

aux01

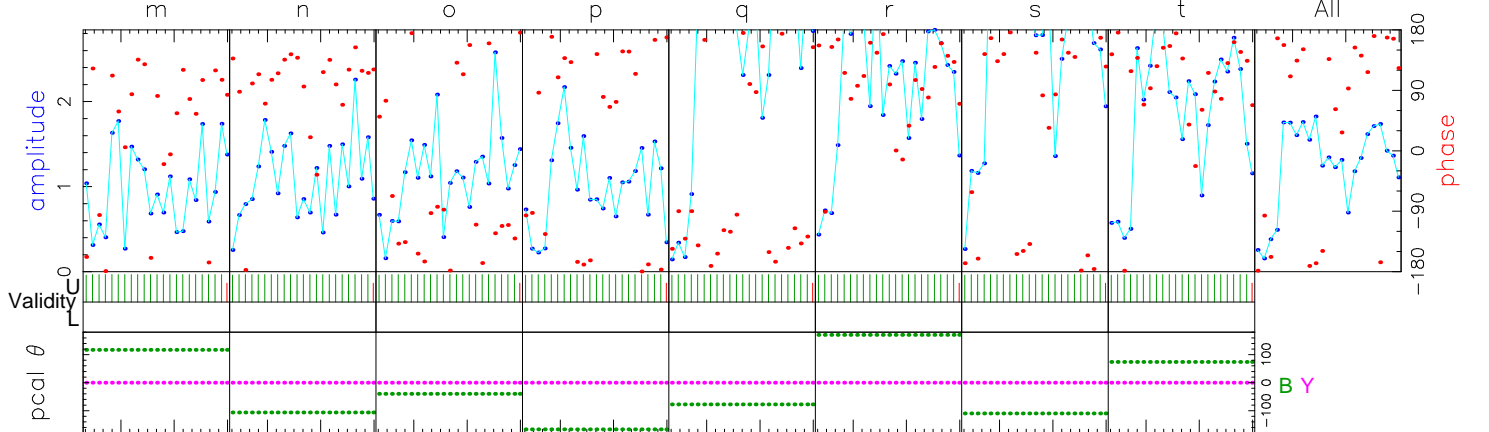
2013+370.3MP1EA, No0232, BY

EFLSBERG - YEBES40M, fgroup W, pol RR



Fringe quality 3  
 Error code G  
 SNR 33.0  
 Int time 162.292  
 Amp 0.948  
 Phase 152.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.257763  
 MBD 0.000379  
 Fringe rate (Hz)  
 -0.023912  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 004017.41  
 Stop 004300.22  
 FRT 004130.00  
 Corr/FF/build  
 2024:351:093049  
 2025:041:102652  
 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



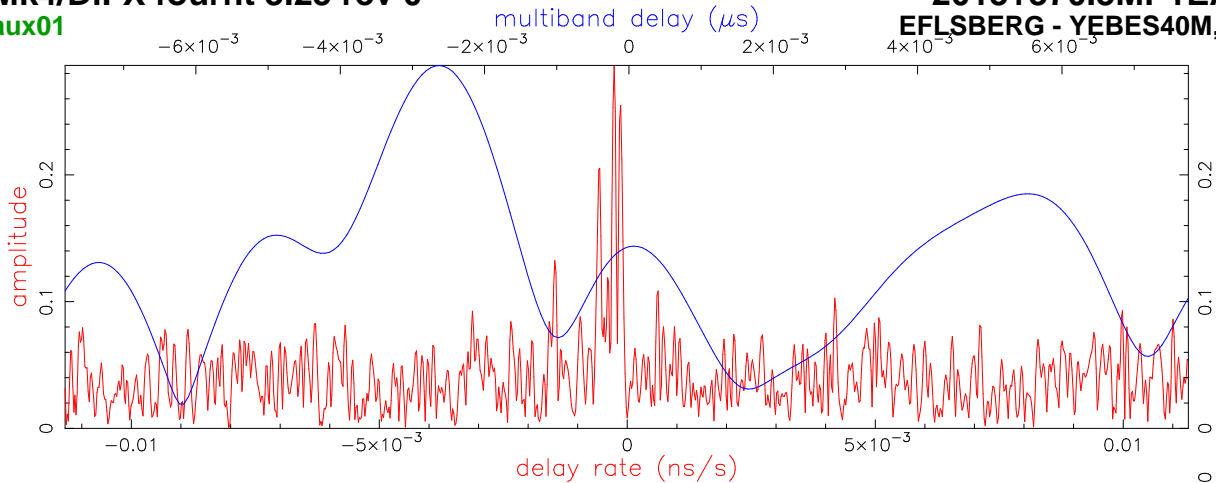
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	99.9	114.1	-145.1	152.4	-156.4	112.8	165.9	120.6	Phase	152.2	
	0.6	0.9	0.8	0.8	1.9	1.5	2.0	1.3	Ampl.	1.2	
	322.2	322.2	322.6	323.0	322.8	322.3	322.9	321.5	Sbd box	323.0	
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0	APs used		
B	0	0	0	0	0	0	0	0	PC freqs		
Y	0	0	0	0	0	0	0	0	PC freqs		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
B:Y	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0	Manl PC		
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
Y	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks		
									Tracks		
Group delay (usec) (SBD)	3.40071680964E+03		Apriori delay (usec)		3.40046643065E+03		Resid mbdelay (usec)		3.78990E-04	+/- 3.3E-05	
Sband delay (usec)	3.40072419390E+03		Apriori clock (usec)		7.5212791E+01		Resid sbdelay (usec)		2.57763E-01	+/- 2.6E-04	
Phase delay (usec)	3.40046643556E+03		Apriori clockrate (us/s)		1.2662300E-06		Resid phdelay (usec)		4.90659E-06	+/- 1.1E-07	
Delay rate (us/s)	-1.71747848230E-01		Apriori rate (us/s)		-1.71747570637E-01		Resid rate (us/s)		-2.77593E-07	+/- 1.2E-09	
Total phase (deg)			Apriori accel (us/s/s)		-9.33566500734E-06		Resid phase (deg)		152.2	+/- 3.5	
RMS	Theor.	Amplitude	0.948 +/- 0.029		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
ph/seg (deg)	49.9	8.3	Search (1024X32)	0.911	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000	
amp/seg (%)	62.5	14.5	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008	0.008
ph/frq (deg)	47.4	4.9	Inc. seg. avg.	1.245	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011	0.011	
amp/frq (%)	61.2	8.6	Inc. frq. avg.	1.213	Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00	0.00
B: az 72.0 el 35.1 pa -49.5		Y: az 61.1 el 24.8 pa -56.9		u,v (fr/asec) 1230.360 296.325				simultaneous interpolator			
Control file: cf_1234_gmva		Input file: /Exps/c241c/v2/3mm/1234/No0232/BY..3MP1EA		Output file: /Exps/c241c/v2/3mm/1234/No0232/BY.W.49.3MP1EA							

Mk4/DiFX fourfit 3.25 rev 0

aux01

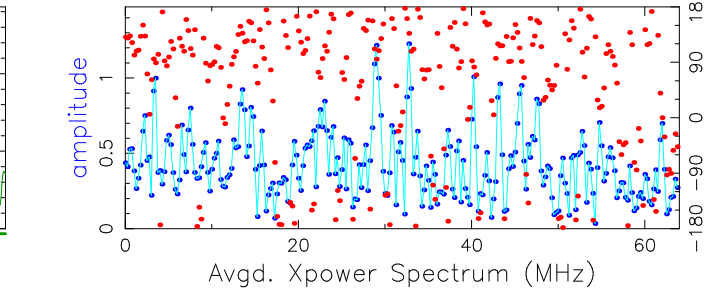
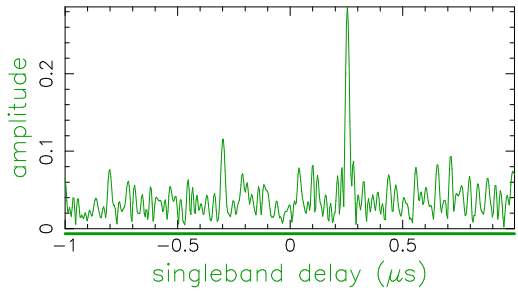
2013+370.3MP1EA, No0232, BY

EFLSBERG - YEYES40M, fgroup W, pol LR



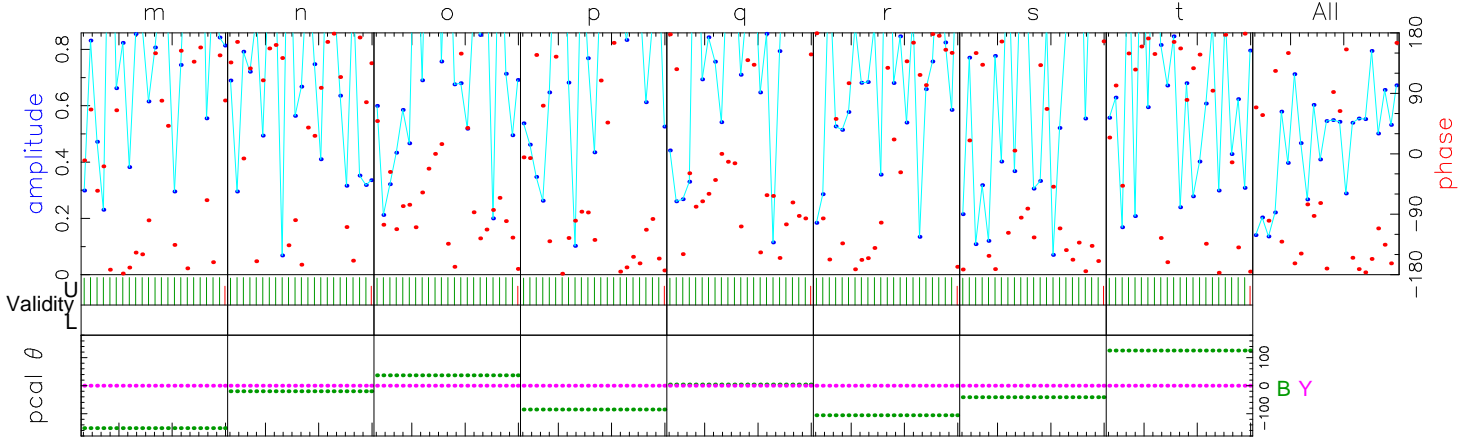
Fringe quality 9

SNR 10.0  
 Int time 162.292  
 Amp 0.286  
 Phase -160.5  
 PFD 4.3e-15  
 Delays (us)  
 SBD 0.254043  
 MBD -0.002630  
 Fringe rate (Hz)  
 -0.023118  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 004017.41  
 Stop 004300.22  
 FRT 004130.00  
 Corr/FF/build  
 2024:351:093049  
 2025:041:102654  
 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
	164.3	163.0	-80.1	-160.8	-87.1	171.3	-142.5	159.8	Phase	-160.5
	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	Ampl.	0.4
	321.4	321.1	323.0	322.5	322.3	322.2	320.8	320.4	Sbd box	322.0
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	3.40071380027E+03	Apriori delay (usec)	3.40046643065E+03	Resid mbdelay (usec)	-2.63038E-03	+/-	1.1E-04
Sband delay (usec)	3.40072047390E+03	Apriori clock (usec)	7.5212791E+01	Resid sbdelay (usec)	2.54043E-01	+/-	8.6E-04
Phase delay (usec)	3.40046642547E+03	Apriori clockrate (us/s)	1.2662300E-06	Resid phdelay (usec)	-5.17705E-06	+/-	3.7E-07
Delay rate (us/s)	-1.71747839014E-01	Apriori rate (us/s)	-1.71747570637E-01	Resid rate (us/s)	-2.68376E-07	+/-	3.9E-09
Total phase (deg)		Apriori accel (us/s/s)	-9.33566500734E-06	Resid phase (deg)	-160.5	+/-	11.5

ph/seg (deg)	68.3	RMS	27.6	Theor.	0.286 +/- 0.029	PCal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	89.7	Search (1024X32)	0.280	Interp.	0.000	PCal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	53.4	Inc. seg. avg.	0.421	Inc. frq. avg.	0.388	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	41.6	Inc. frq. avg.	0.388	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	dr window (ns/s)	-0.011 0.011
B: az 72.0 el 35.1 pa -49.5	Y: az 61.1 el 24.8 pa -56.9	u, v (fr/asec)	1230.360 296.325			ion window (TEC)	0.00 0.00	simultaneous interpolator		

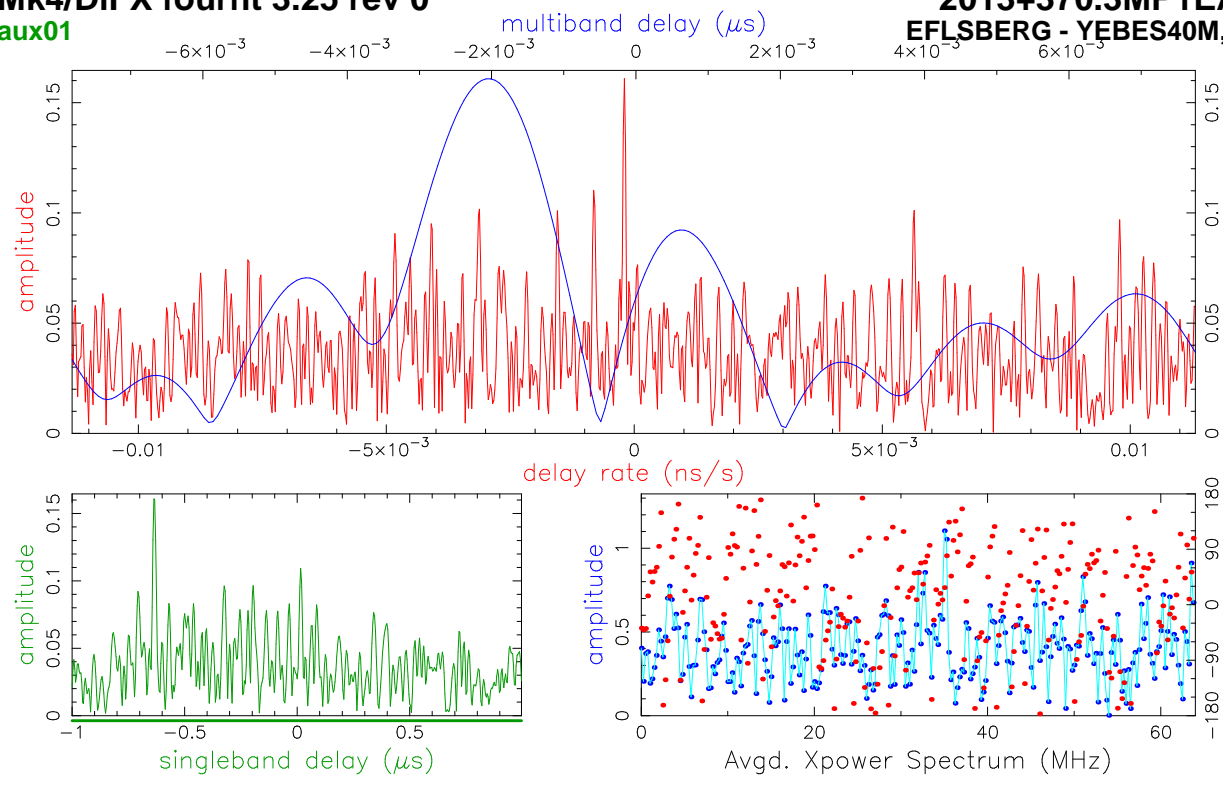
Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/BY..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BY.W.66.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

aux01

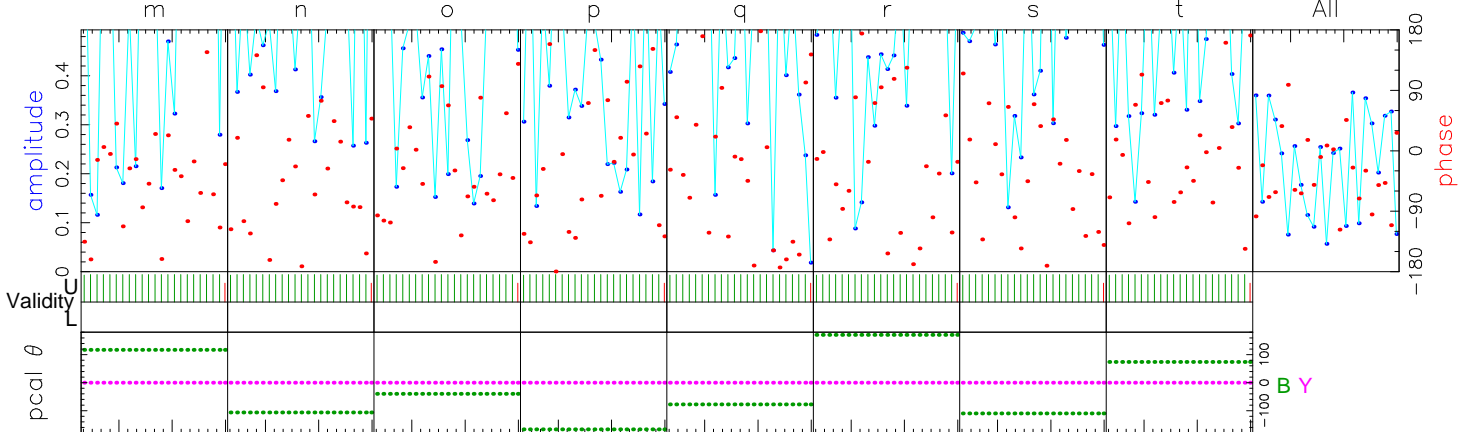
2013+370.3MP1EA, No0232, BY

EFLSBERG - YEYES40M, fgroup W, pol RL



Fringe quality 0  
 SNR 5.7  
 Int time 162.292  
 Amp 0.165  
 Phase -49.9  
 PFD 7.0e-01  
 Delays (us)  
 SBD -0.634860  
 MBD -0.002032  
 Fringe rate (Hz)  
 -0.016650  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 004017.41  
 Stop 004300.22  
 FRT 004130.00  
 Corr/FF/build  
 2024:351:093049  
 2025:041:102659  
 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



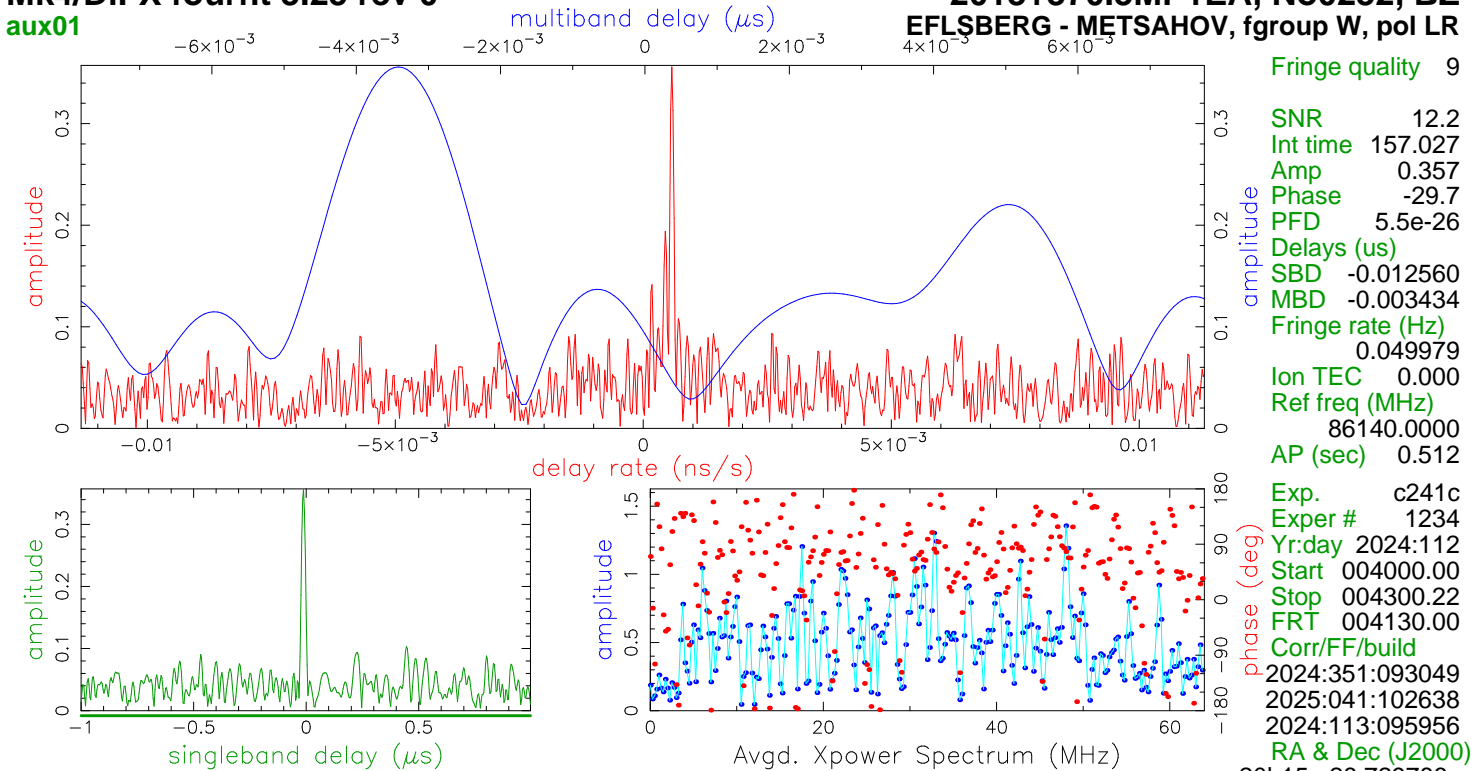
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-44.6	-45.2	-42.4	-93.9	-85.4	-70.8	-47.0	-32.5	Phase	-49.9
	0.3	0.1	0.2	0.1	0.1	0.1	0.2	0.2	Ampl.	0.1
	93.7	79.9	92.8	363.5	153.1	135.1	501.1	206.1	Sbd box	94.5
U/L	318/0	318/0	318/0	318/0	318/0	318/0	318/0	318/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	3.39982377320E+03		Apriori delay (usec)		3.40046643065E+03		Resid mbdelay (usec)		-2.03245E-03	+/- 1.9E-04
Sband delay (usec)	3.39983157040E+03		Apriori clock (usec)		7.5212791E+01		Resid sbdelay (usec)		-6.34860E-01	+/- 1.5E-03
Phase delay (usec)	3.40046642904E+03		Apriori clockrate (us/s)		1.2662300E-06		Resid phdelay (usec)		-1.60762E-06	+/- 6.4E-07
Delay rate (us/s)	-1.71747763930E-01		Apriori rate (us/s)		-1.71747570637E-01		Resid rate (us/s)		-1.93293E-07	+/- 6.9E-09
Total phase (deg)			Apriori accel (us/s/s)		-9.33566500734E-06		Resid phase (deg)		-49.9	+/- 20.0
RMS	55.6	47.9	Search (1024X32)		0.158	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		
ph/seg (deg)	72.4	83.6	Interp.		0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
amp/seg (%)	26.0	28.3	Inc. seg. avg.		0.165	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	49.6	49.3	Inc. frq. avg.		0.149	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.011 0.011	
amp/frq (%)						Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00
B: az 72.0 el 35.1 pa -49.5	Y: az 61.1 el 24.8 pa -56.9		u, v (fr/asec)		1230.360 296.325			simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/c241c/v2/3mm/1234/No0232/BY..3MP1EA		Output file: /Exps/c241c/v2/3mm/1234/No0232/BY.W.76.3MP1EA							

Mk4/DiFX fourfit 3.25 rev 0

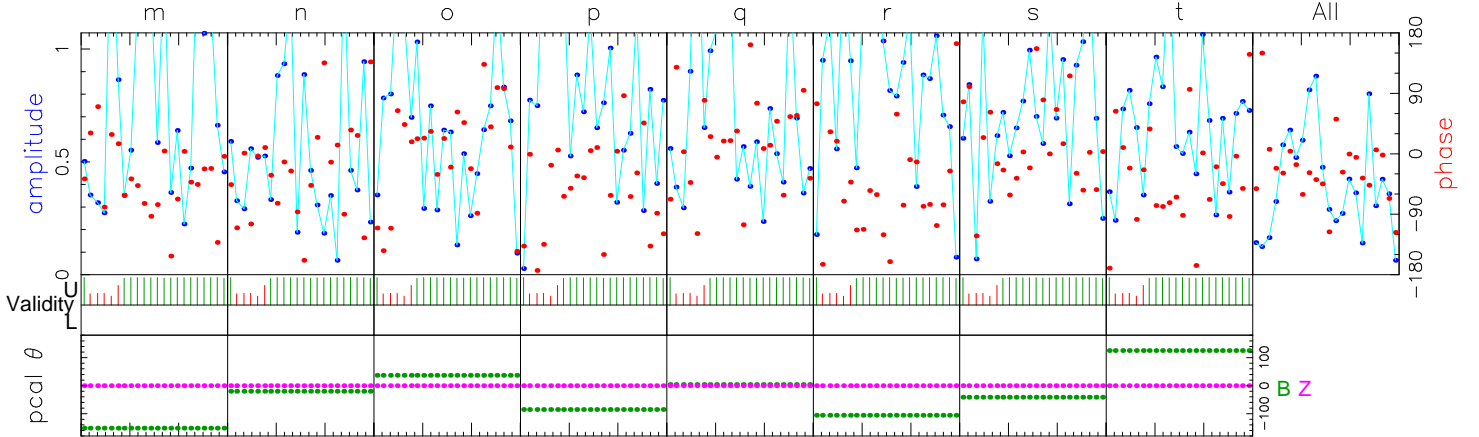
aux01

2013+370.3MP1EA, No0232, BZ

EFLSBERG - METSAHOV, fgroup W, pol LR



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
	-42.4	-52.5	39.1	-46.5	20.5	-70.7	-0.9	-51.5	Phase	-29.7
	0.6	0.3	0.3	0.4	0.4	0.5	0.5	0.4	Ampl.	0.4
	253.7	8.2	346.9	253.6	253.3	253.8	253.0	253.0	Sbd box	253.8
U/L	328/0	328/0	328/0	328/0	328/0	328/0	328/0	328/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-3.14020240095E+03	Apriori delay (usec)	-3.14018334227E+03	Resid mbdelay (usec)	-3.43368E-03	+/-	8.9E-05
Sband delay (usec)	-3.14019590252E+03	Apriori clock (usec)	-3.5602219E+01	Resid sbdelay (usec)	-1.25603E-02	+/-	7.0E-04
Phase delay (usec)	-3.14018334323E+03	Apriori clockrate (us/s)	-7.9939896E-07	Resid phdelay (usec)	-9.57512E-07	+/-	3.0E-07
Delay rate (us/s)	2.36150538354E-01	Apriori rate (us/s)	2.36149958142E-01	Resid rate (us/s)	5.80212E-07	+/-	3.1E-09
Total phase (deg)		Apriori accel (us/s/s)	9.93543543517E-06	Resid phase (deg)	-29.7	+/-	9.4

ph/seg (deg)	RMS 47.3	Theor. 21.2	Amplitude Search (1024X32)	0.351	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	67.2	37.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	43.2	13.2	Inc. seg. avg.	0.388	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	34.9	23.1	Inc. frq. avg.	0.425	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

B: az 72.0 el 35.1 pa -49.5      Z: az 93.6 el 46.2 pa -38.5      u,v (fr/asec) -1692.757 -74.437      simultaneous interpolator

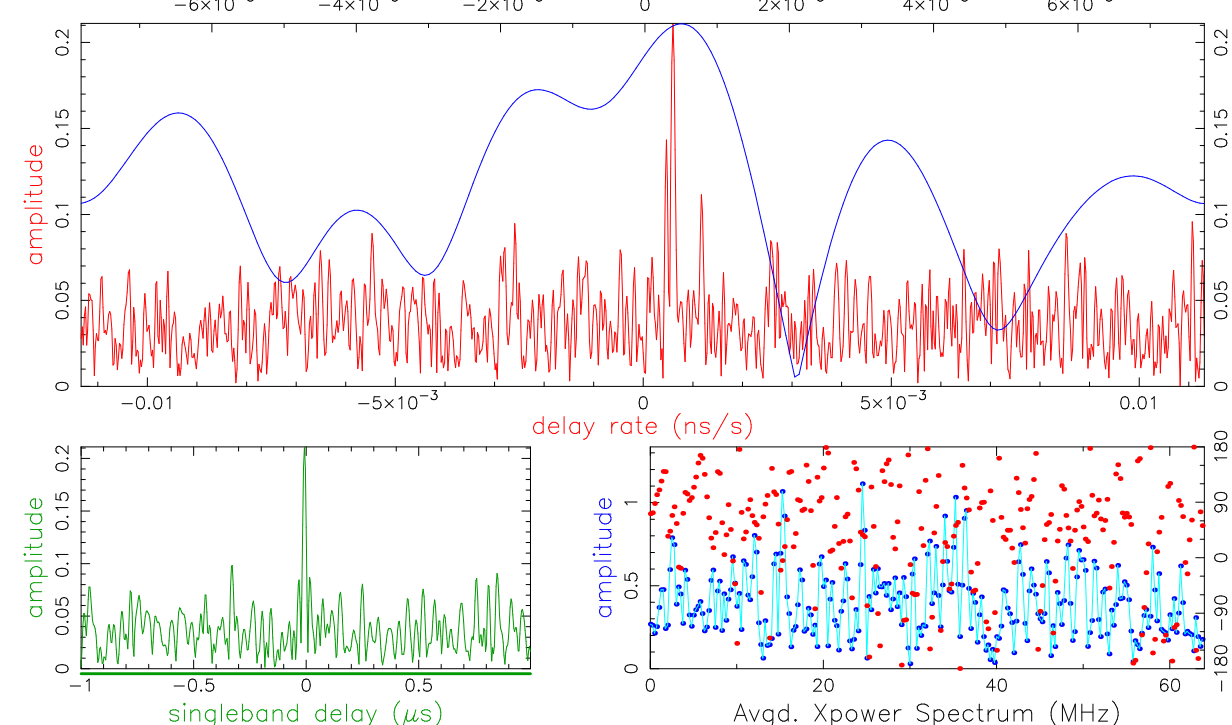
Control file: cf\_1234\_gmva      Input file: /Exps/c241c/v2/3mm/1234/No0232/BZ..3MP1EA      Output file: /Exps/c241c/v2/3mm/1234/No0232/BZ.W.12.3MP1EA

Mk4/DiFX fourfit 3.25 rev 0

aux01

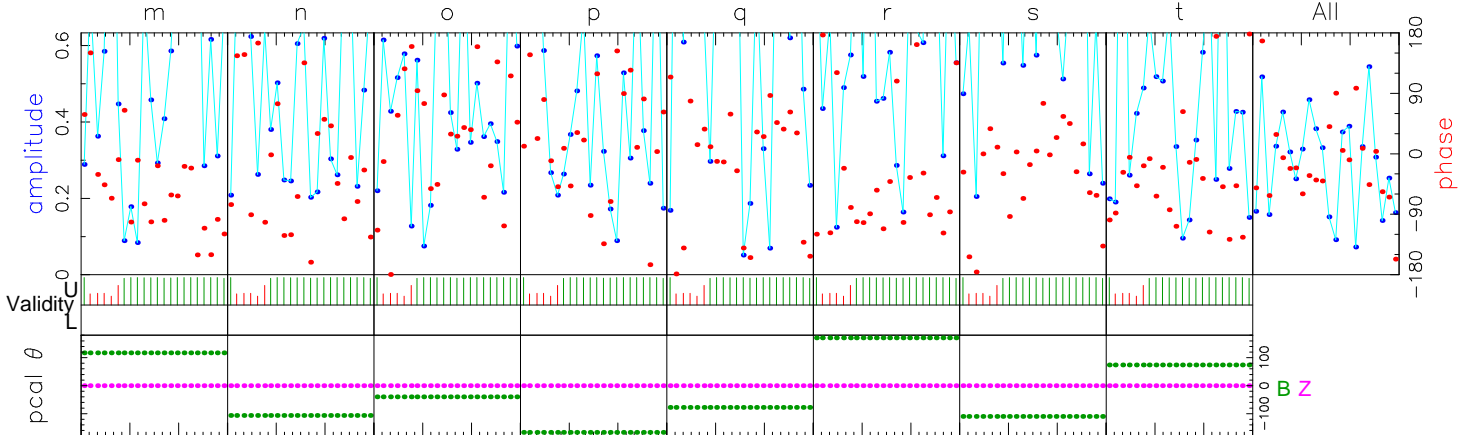
2013+370.3MP1EA, No0232, BZ

EFLSBERG - METSAHOV, fgroup W, pol RL



Fringe quality 9  
 SNR 7.2  
 Int time 157.027  
 Amp 0.211  
 Phase -25.6  
 PFD 7.7e-05  
 Delays (us)  
 SBD -0.007829  
 MBD 0.000504  
 Fringe rate (Hz) 0.050731  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512  
 Exp. c241c  
 Exper # 1234  
 Yr:day 2024:112  
 Start 004000.00  
 Stop 004300.22  
 FRT 004130.00  
 Corr/FF/build  
 2024:351:093049  
 2025:041:102640  
 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



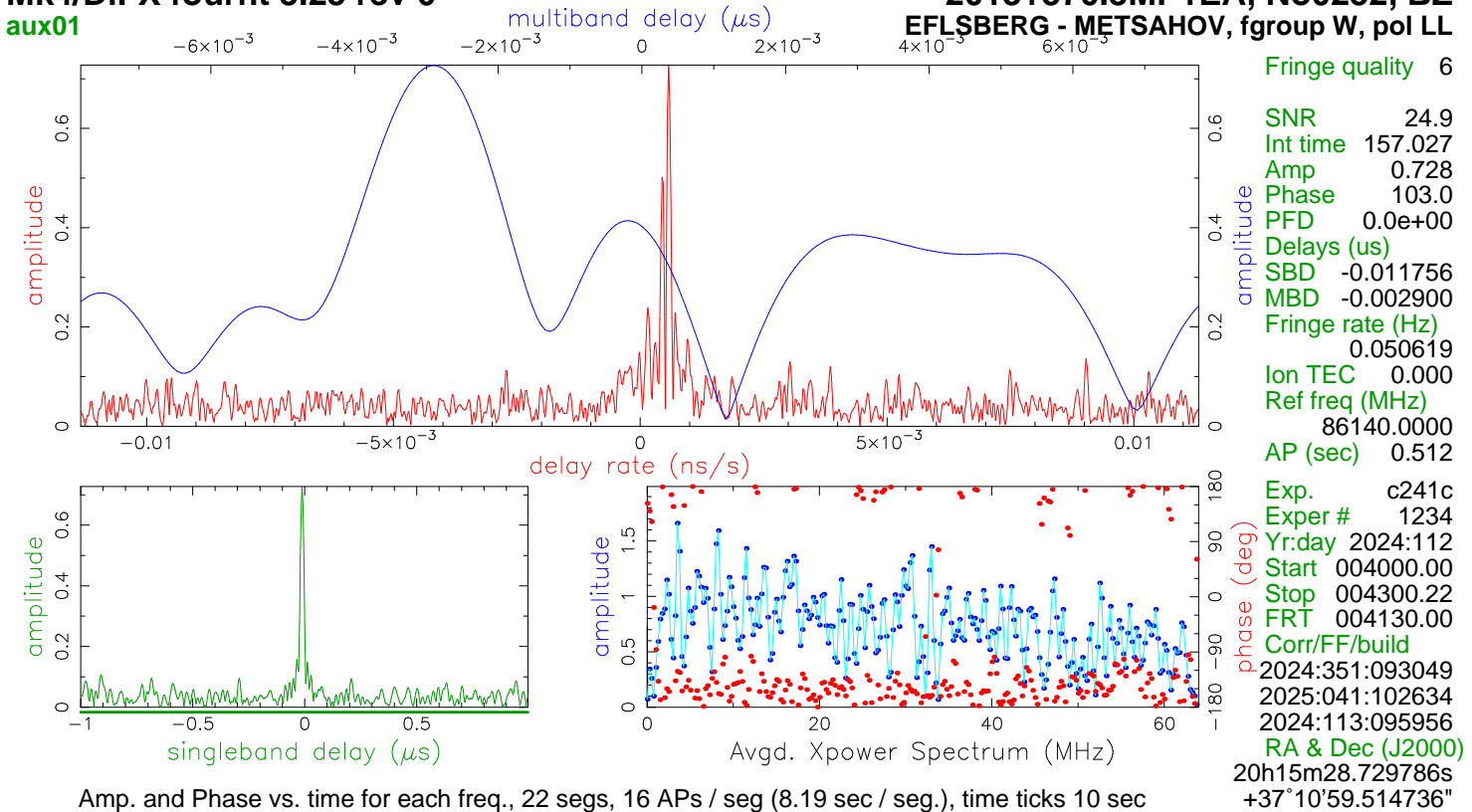
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All		
	-74.5	-63.2	58.9	31.9	26.5	-89.7	-5.2	-57.8	Phase	-25.6		
	0.3	0.1	0.2	0.2	0.4	0.5	0.5	0.3	Ampl.	0.3		
	254.8	298.5	478.1	253.7	254.2	254.4	254.6	253.7	Sbd box	255.0		
U/L	328/0	328/0	328/0	328/0	328/0	328/0	328/0	328/0	APs used			
B	0	0	0	0	0	0	0	0	PC freqs			
Z	0	0	0	0	0	0	0	0	PC freqs			
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase			
B:Z	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0	Mani PC			
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp			
Z	1000	1000	1000	1000	1000	1000	1000	1000				
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids			
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks			
									Tracks			
Group delay (usec) (SBD)	-3.14019846281E+03		Apriori delay (usec)		-3.14018334227E+03		Resid mbdelay (usec)		5.04466E-04	+/- 1.5E-04		
Sband delay (usec)	-3.14019117077E+03		Apriori clock (usec)		-3.5602219E+01		Resid sbdelay (usec)		-7.82850E-03	+/- 1.2E-03		
Phase delay (usec)	-3.14018334310E+03		Apriori clockrate (us/s)		-7.9939896E-07		Resid phdelay (usec)		-8.25513E-07	+/- 5.1E-07		
Delay rate (us/s)	2.36150547079E-01		Apriori rate (us/s)		2.36149958142E-01		Resid rate (us/s)		5.88937E-07	+/- 5.3E-09		
Total phase (deg)			Apriori accel (us/s/s)		9.93543543517E-06		Resid phase (deg)		-25.6	+/- 15.9		
	RMS	Theor.	Amplitude	0.211 +/- 0.029		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
ph/seg (deg)	60.8	35.9	Search (1024X32)	0.206		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000		
amp/seg (%)	71.1	62.7	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	61.3	22.4	Inc. seg. avg.	0.237		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.011	0.011		
amp/frq (%)	83.4	39.1	Inc. frq. avg.	0.306		Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00
B: az 72.0 el 35.1 pa -49.5	Z: az 93.6 el 46.2 pa -38.5		u, v (fr/asec) -1692.757 -74.437						simultaneous interpolator			
Control file: cf_1234_gmva	Input file: /Exps/c241c/v2/3mm/1234/No0232/BZ..3MP1EA		Output file: /Exps/c241c/v2/3mm/1234/No0232/BZ.W.21.3MP1EA									

Mk4/DiFX fourfit 3.25 rev 0

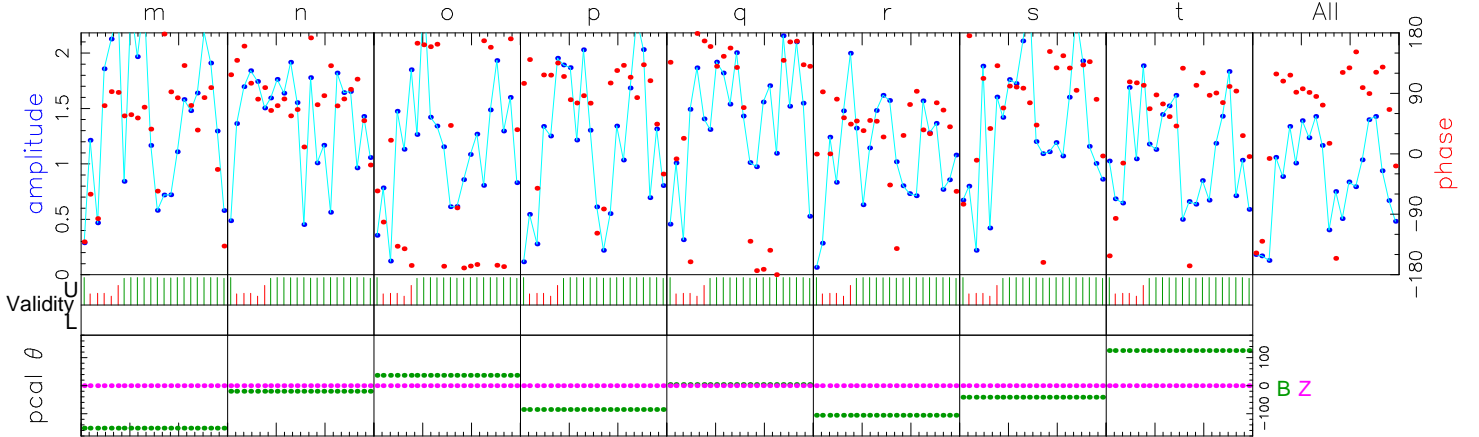
aux01

2013+370.3MP1EA, No0232, BZ

EFLSBERG - METSAHOV, fgroup W, pol LL



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		
	70.8	83.1	-180.0	100.9	157.3	37.2	106.5	83.5	Phase	103.0		
	1.0	1.1	0.9	1.0	1.1	0.8	1.1	0.8	Ampl.	1.0		
	253.8	253.4	254.1	253.9	253.8	253.6	253.4	253.1	Sbd box	254.0		
U/L	328/0	328/0	328/0	328/0	328/0	328/0	328/0	328/0	APs used			
B	0	0	0	0	0	0	0	0	PC freqs			
Z	0	0	0	0	0	0	0	0	PC freqs			
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase			
B:Z	-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			
Z	1000	1000	1000	1000	1000	1000	1000	1000				
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids			
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks			
									Tracks			
Group delay (usec) (SBD)	-3.14020186721E+03		Apriori delay (usec)		-3.14018334227E+03		Resid mbdelay (usec)		-2.89994E-03	+/- 4.4E-05		
Sband delay (usec)	-3.14019509802E+03		Apriori clock (usec)		-3.5602219E+01		Resid sbdelay (usec)		-1.17557E-02	+/- 3.5E-04		
Phase delay (usec)	-3.14018333895E+03		Apriori clockrate (us/s)		-7.9939896E-07		Resid phdelay (usec)		3.32192E-06	+/- 1.5E-07		
Delay rate (us/s)	2.36150545778E-01		Apriori rate (us/s)		2.36149958142E-01		Resid rate (us/s)		5.87637E-07	+/- 1.5E-09		
Total phase (deg)	65.8		Apriori accel (us/s/s)		9.93543543517E-06		Resid phase (deg)		103.0	+/- 4.6		
ph/seg (deg)	RMS 57.4	Theor. 10.4	Amplitude Search (1024X32)	0.728 +/- 0.029	0.704	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
amp/seg (%)	60.2	18.2	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000		
ph/frq (deg)	50.1	6.5	Inc. seg. avg.	0.892	0.892	Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008	
amp/frq (%)	37.1	11.4	Inc. frq. avg.	0.963	0.963	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011 0.011		
B: az 72.0 el 35.1 pa -49.5	Z: az 93.6 el 46.2 pa -38.5		u, v (fr/asec)		-1692.757 -74.437		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/No0232/BZ..3MP1EA		Output file: /Exps/c241c/v2/3mm/1234/No0232/BZ.W.4.3MP1EA								simultaneous interpolator	

Mk4/DiFX fourfit 3.25 rev 0

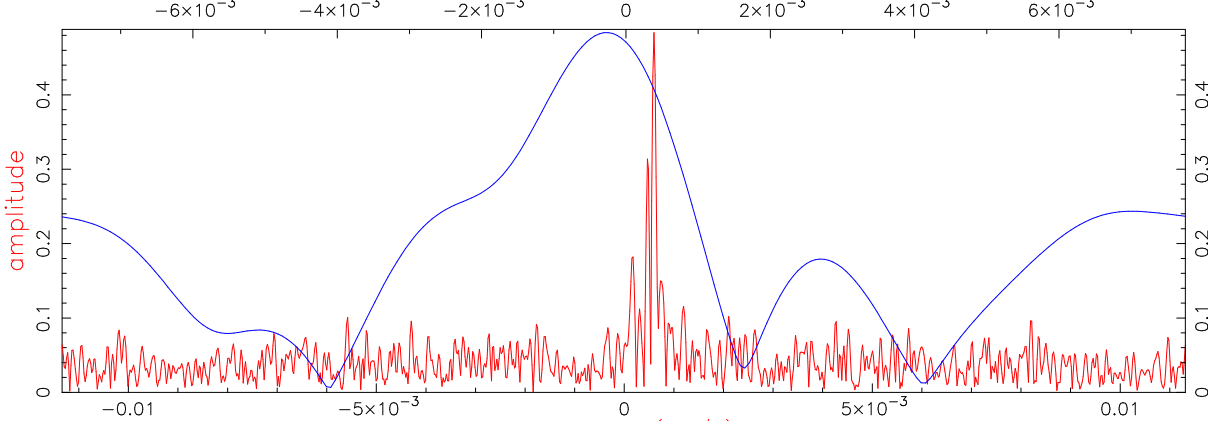
aux01

2013+370.3MP1EA, No0232, BZ

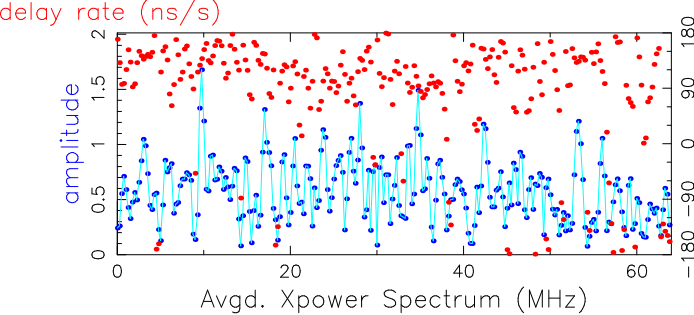
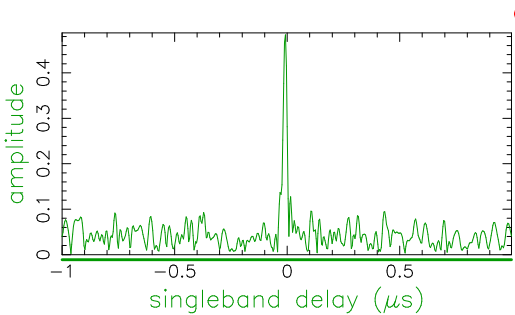
EFLSBERG - METSAHOV, fgroup W, pol RR

multiband delay ( $\mu$ s)

Fringe quality 7

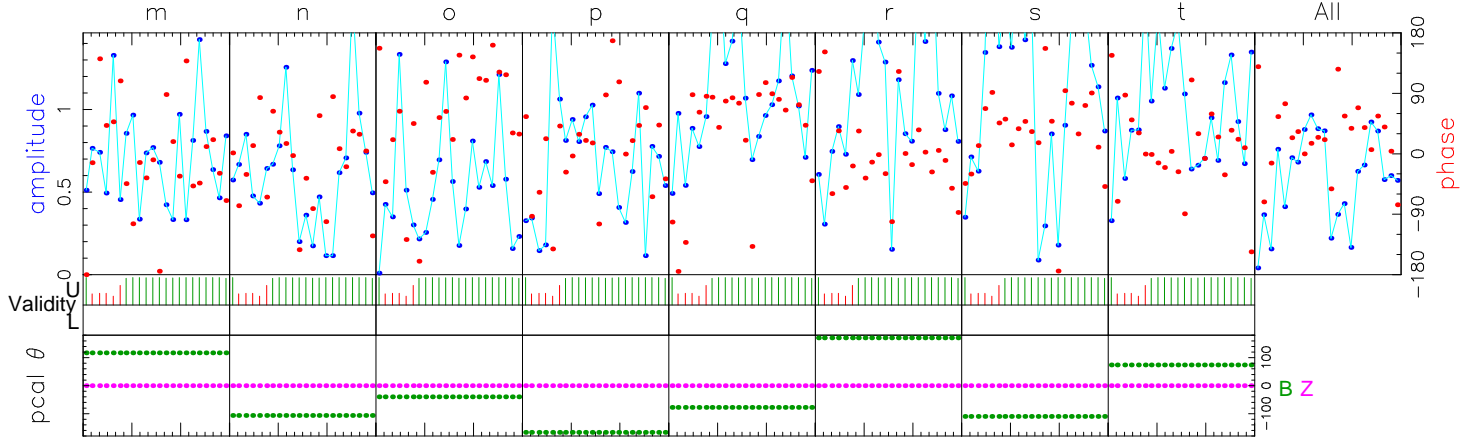


SNR 16.7  
Int time 157.027  
Amp 0.488  
Phase 25.7  
PFD 0.0e+00  
Delays (us)  
SBD -0.008990  
MBD -0.000308  
Fringe rate (Hz) 0.050714  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512



Exp. c241c  
Exper # 1234  
Yr:day 2024:112  
Start 004000.00  
Stop 004300.22  
FRT 004130.00  
Corr/FF/build  
2024:351:093049  
2025:041:102636  
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
	-29.5	9.4	90.4	18.0	72.8	-8.1	46.5	-1.0		Phase 25.7
	0.4	0.5	0.3	0.4	0.8	0.8	0.9	0.7		Ampl. 0.6
	256.6	253.9	255.2	253.6	254.3	254.2	254.5	252.9		Sbd box 254.7
U/L	328/0	328/0	328/0	328/0	328/0	328/0	328/0	328/0		APs used
B	0	0	0	0	0	0	0	0		PC freqs
Z	0	0	0	0	0	0	0	0		PC freqs
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
B:Z	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0		Mani PC
B	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks

Group delay (usec) (SBD)	-3.14019927574E+03	Apriori delay (usec)	-3.14018334227E+03	Resid mbdelay (usec)	-3.08472E-04	+/-	6.5E-05
Sband delay (usec)	-3.14019233227E+03	Apriori clock (usec)	-3.5602219E+01	Resid sbdelay (usec)	-8.99000E-03	+/-	5.2E-04
Phase delay (usec)	-3.14018334144E+03	Apriori clockrate (us/s)	-7.9939896E-07	Resid phdelay (usec)	8.27820E-07	+/-	2.2E-07
Delay rate (us/s)	2.36150546884E-01	Apriori rate (us/s)	2.36149958142E-01	Resid rate (us/s)	5.88742E-07	+/-	2.3E-09
Total phase (deg)		Apriori accel (us/s/s)	9.93543543517E-06	Resid phase (deg)	25.7	+/-	6.9

ph/seg (deg)	50.2	Theor.	15.5	Amplitude	0.488 +/- 0.029	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	60.2	Search (1024X32)	0.464	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	Inc. seg. avg.	0.575	Inc. frq. avg.	0.588	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	52.7	Inc. frq. avg.	0.588			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

B: az 72.0 el 35.1 pa -49.5 Z: az 93.6 el 46.2 pa -38.5 u, v (fr/asec) -1692.757 -74.437 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c241c/v2/3mm/1234/No0232/BZ..3MP1EA Output file: /Exps/c241c/v2/3mm/1234/No0232/BZ.W.7.3MP1EA