

Mk4/DiFX fourfit 3.25 rev 0

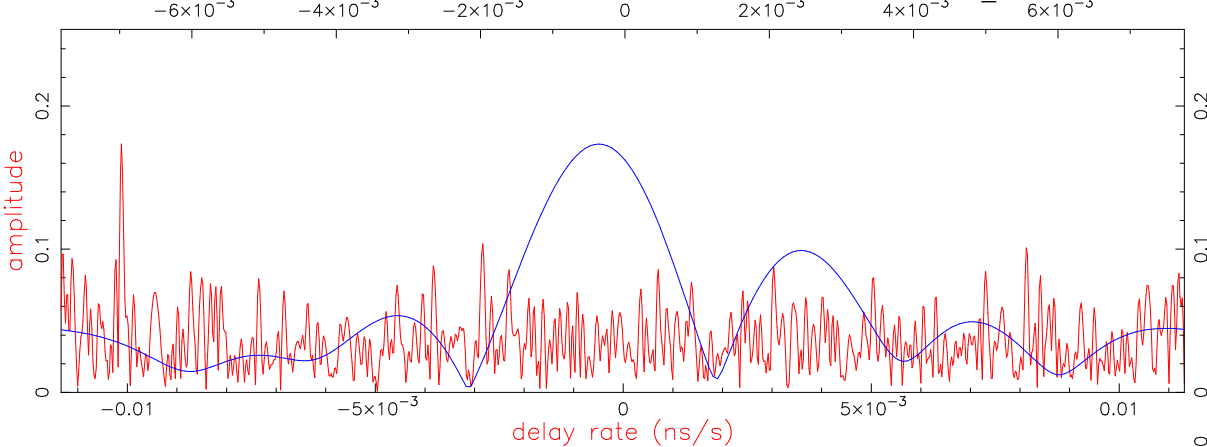
aux01

3C371.3MP15Q, No0901, bB

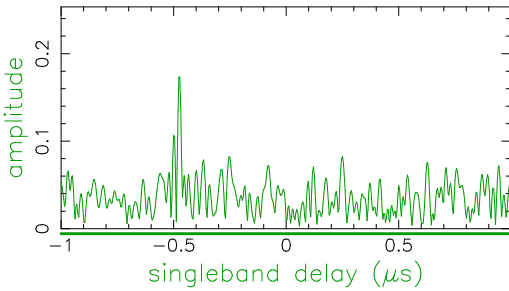
VLBA_BR - EFLSBERG, fgroup W, pol RR

multiband delay (μ s)

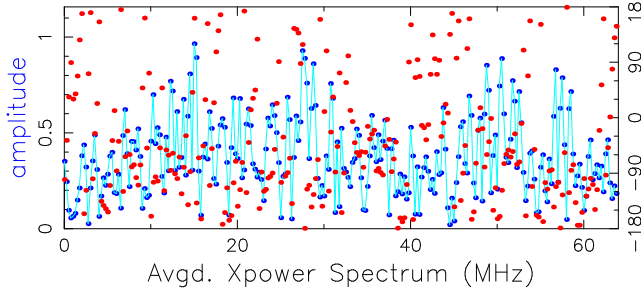
Fringe quality 0



SNR 5.9
 Int time 149.263
 Amp 0.254
 Phase -156.7
 PFD 3.0e-01
 Delays (us)
 SBD -0.474566
 MBD -0.000390
 Fringe rate (Hz)
 -0.873188
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

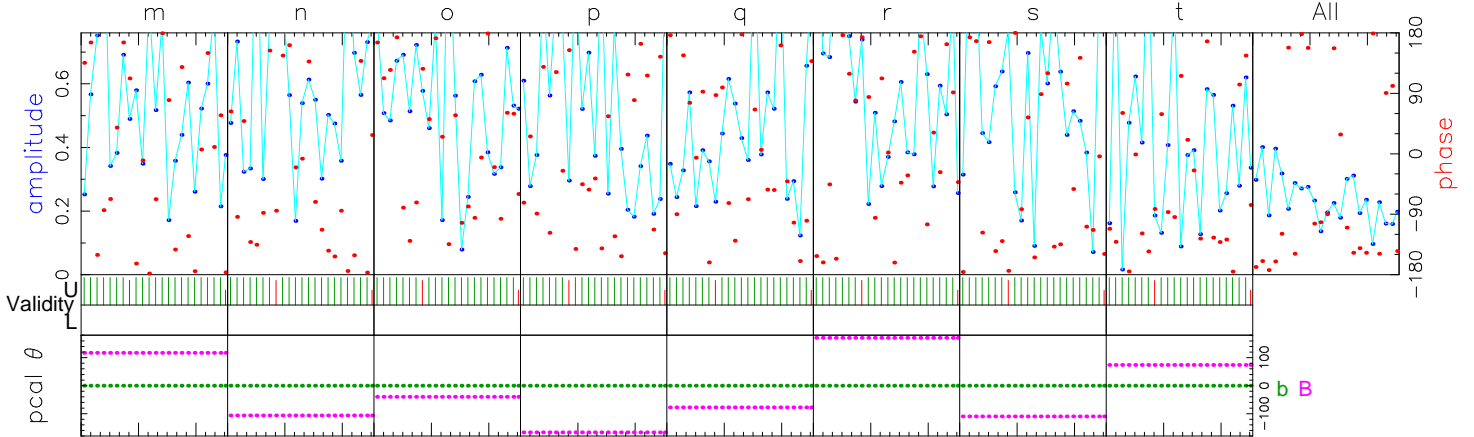


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105459
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-163.9	-154.7	-161.8	-136.4	-168.0	-170.5	-173.2	-131.8	Phase	-156.7
	0.2	0.4	0.1	0.2	0.1	0.3	0.4	0.3	Ampl.	0.2
	451.2	136.0	389.5	114.1	133.3	287.3	237.4	141.5	Sbd box	135.5
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
B	0	0	0	0	0	0	0	0	PC freqs	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:B	0:118	0:-106	0:-40	0:-167	0:-77	0:171	0:-110	0:74	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec) (SBD)	6.26665325825E+03		Apriori delay (usec)		6.26712239856E+03		Resid mbdelay (usec)		-3.90309E-04	+/- 1.8E-04
Sband delay (usec)	6.26664783306E+03		Apriori clock (usec)		4.0037495E+01		Resid sbdelay (usec)		-4.74566E-01	+/- 1.4E-03
Phase delay (usec)	6.26712239351E+03		Apriori clockrate (us/s)		7.6597994E-07		Resid phdelay (usec)		-5.05309E-06	+/- 6.2E-07
Delay rate (us/s)	-3.82001284349E-01		Apriori rate (us/s)		-3.81991147498E-01		Resid rate (us/s)		-1.01369E-05	+/- 7.2E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.60027811523E-05		Resid phase (deg)		-156.7	+/- 19.3

ph/seg (deg) 58.2 46.2 Search (1024X32) 0.171 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 55.1 80.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 16.9 27.2 Inc. seg. avg. 0.258 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.6 47.6 Inc. frq. avg. 0.230 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 b: az 328.9 el 53.3 pa 92.4 B: az 4.0 el 30.6 pa -7.6 u,v (fr/asec) 6245.708 -7851.682 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No09011/bB..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No09011/bB.W.12.3MP15Q

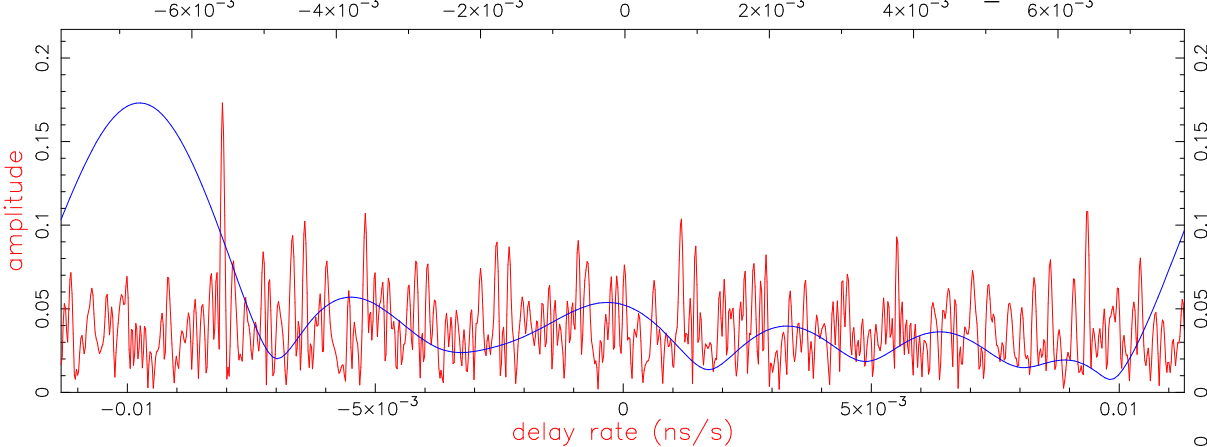
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, bB

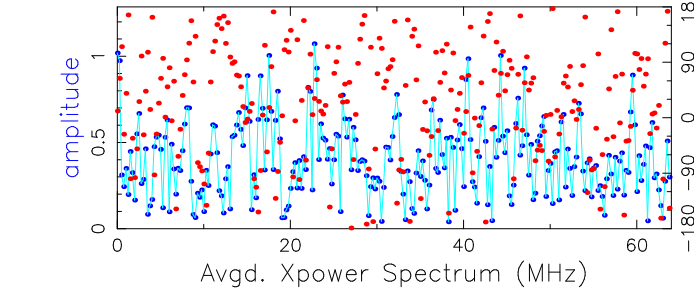
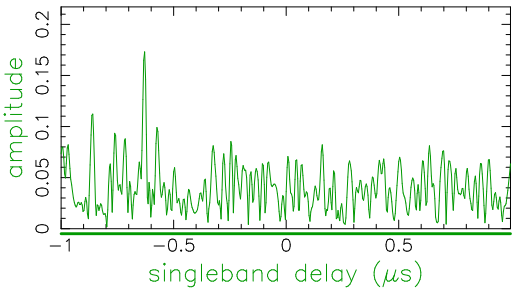
VLBA_BR - EFLSBERG, fgroup W, pol LR

multiband delay (μs)



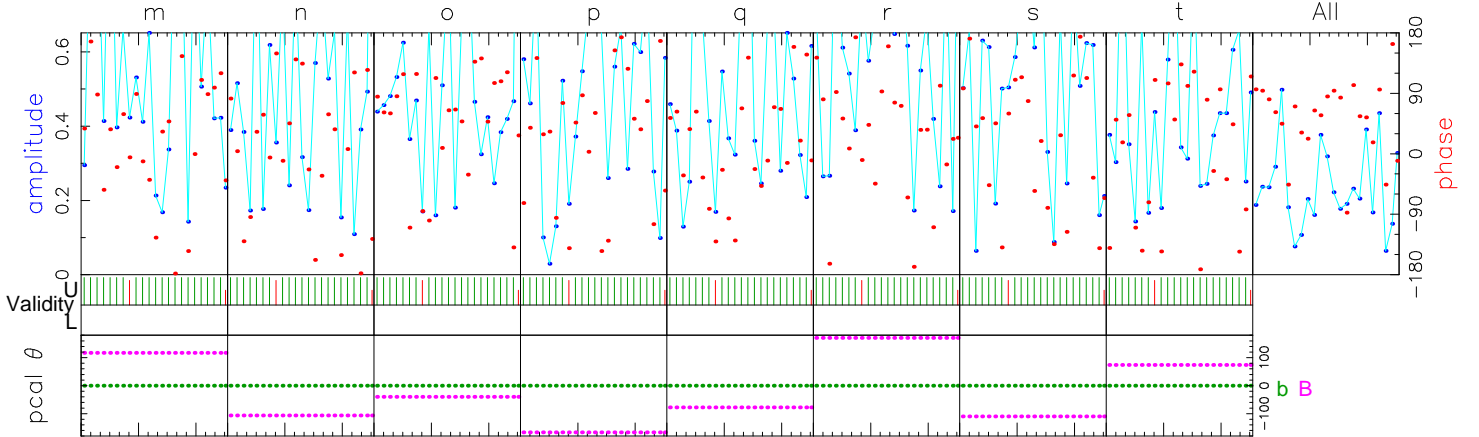
Fringe quality 0

SNR 5.8
 Int time 149.263
 Amp 0.217
 Phase 63.6
 PFD 5.1e-01
 Delays (us)
 SBD -0.629946
 MBD -0.006762
 Fringe rate (Hz)
 -0.697136
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105501
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	72.7	35.4	70.4	81.7	32.5	54.9	75.2	85.4	Phase	63.6
	0.3	0.1	0.3	0.2	0.2	0.3	0.2	0.2	Ampl.	0.2
	202.4	319.6	363.2	412.1	118.5	95.0	266.4	72.5	Sbd box	95.7
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
B	0	0	0	0	0	0	0	0	PC freqs	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:B	0:118	0:-106	0:-40	0:-167	0:-77	0:171	0:-110	0:74	ManI PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	6.26649063667E+03		Apriori delay (usec)		6.26712239856E+03		Resid mbdelay (usec)		-6.76189E-03	+/- 1.9E-04
Sband delay (usec)	6.26649245206E+03		Apriori clock (usec)		4.0037495E+01		Resid sbdelay (usec)		-6.29946E-01	+/- 1.5E-03
Phase delay (usec)	6.26712240061E+03		Apriori clockrate (us/s)		7.6597994E-07		Resid phdelay (usec)		2.05086E-06	+/- 6.3E-07
Delay rate (us/s)	-3.81999240559E-01		Apriori rate (us/s)		-3.81991147498E-01		Resid rate (us/s)		-8.09306E-06	+/- 7.3E-09
Total phase (deg)	212.0		Apriori accel (us/s/s)		-3.60027811523E-05		Resid phase (deg)		63.6	+/- 19.7

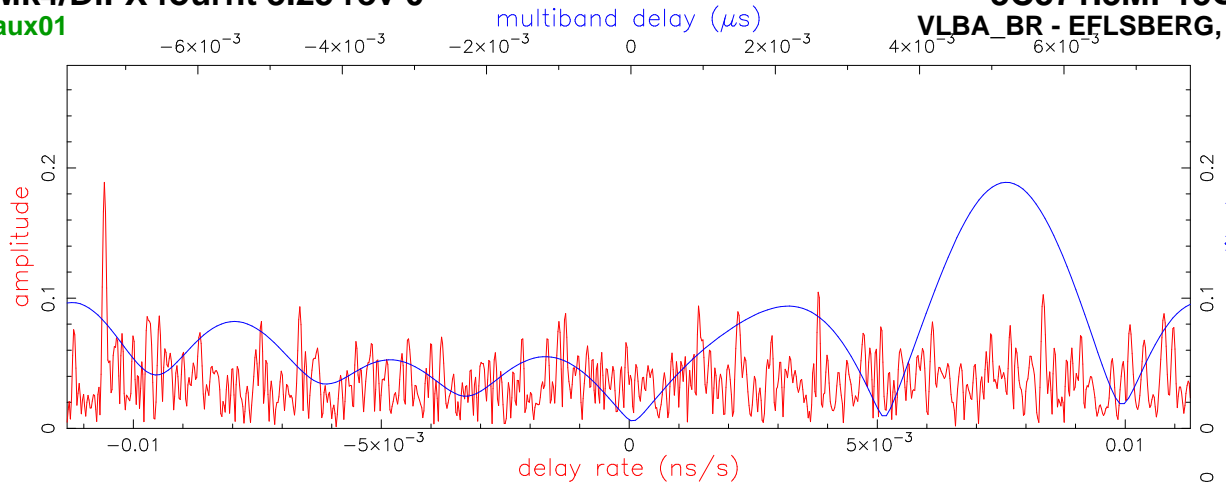
ph/seg (deg) RMS Theor. Amplitude 0.217 +/- 0.037 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 56.5 47.2 Search (1024X32) 0.164 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 71.7 82.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 22.0 27.8 Inc. seg. avg. 0.218 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 27.0 48.5 Inc. frq. avg. 0.202 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 b: az 328.9 el 53.3 pa 92.4 B: az 4.0 el 30.6 pa -7.6 u,v (fr/asec) 6245.708 -7851.682 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901/bB..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901/bB.W.22.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

aux01

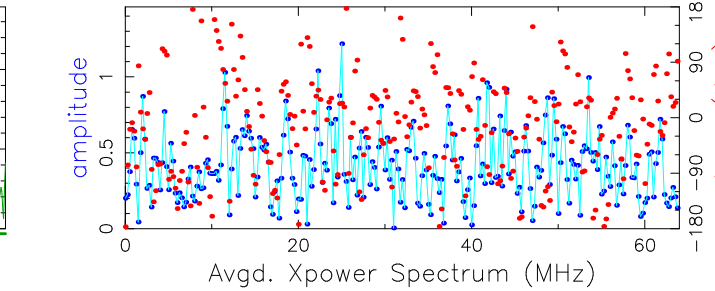
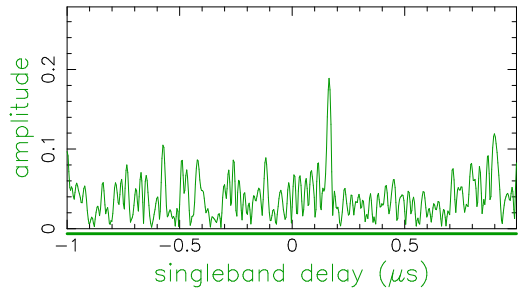
3C371.3MP15Q, No0901, bB

VLBA_BR - EFLSBERG, fgroup W, pol RL



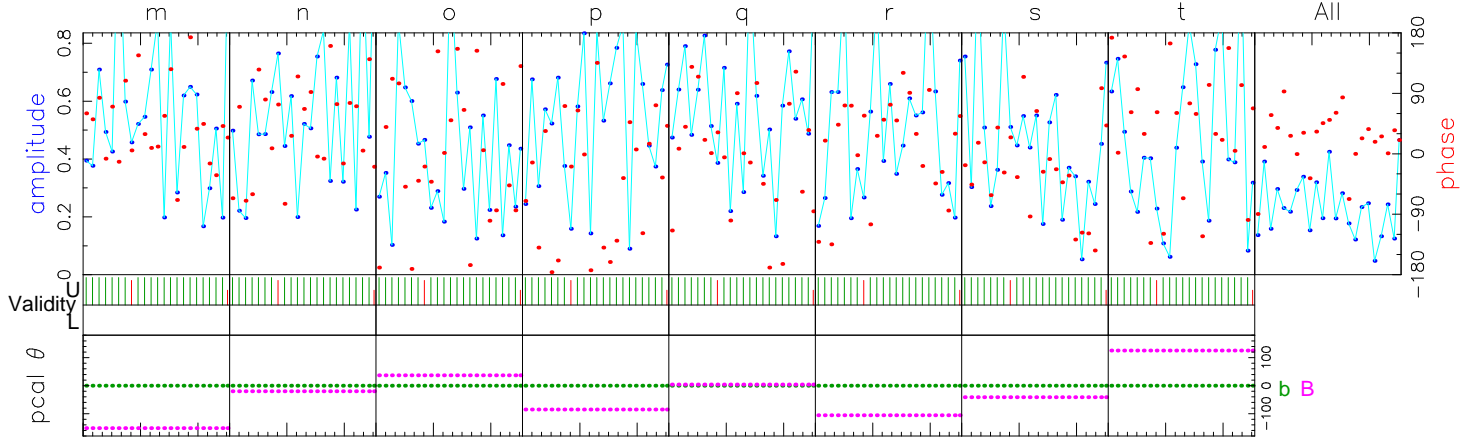
Fringe quality 0

SNR 6.3
 Int time 149.263
 Amp 0.279
 Phase 28.9
 PFD 3.6e-02
 Delays (us)
 SBD 0.164154
 MBD 0.005203
 Fringe rate (Hz)
 -0.912147
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105503
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
b	0	0	0	0	0	0	0	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	0:-151	0:-20	0:37	0:-85	0:4	0:-106	0:-41	0:125		
b	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	6.26728385206E+03	Apriori delay (usec)	6.26712239856E+03	Resid mbdelay (usec)	5.20350E-03	+/-	1.7E-04
Sband delay (usec)	6.26728655281E+03	Apriori clock (usec)	4.0037495E+01	Resid sbdelay (usec)	1.64154E-01	+/-	1.4E-03
Phase delay (usec)	6.26712239949E+03	Apriori clockrate (us/s)	7.6597994E-07	Resid phdelay (usec)	9.30553E-07	+/-	5.9E-07
Delay rate (us/s)	-3.82001736619E-01	Apriori rate (us/s)	-3.81991147498E-01	Resid rate (us/s)	-1.05891E-05	+/-	6.8E-09
Total phase (deg)	177.2	Apriori accel (us/s/s)	-3.60027811523E-05	Resid phase (deg)	28.9	+/-	18.1

ph/seg (deg)	42.5	Theor.	43.5	Amplitude	0.279 +/- 0.044	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	56.3	Search (1024X32)	0.185	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	32.7	Inc. seg. avg.	0.264	Inc. frq. avg.	0.277	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	50.8	Inc. frq. avg.	0.277			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 328.9 el 53.3 pa 92.4 B: az 4.0 el 30.6 pa -7.6 u,v (fr/asec) 6245.708 -7851.682 simultaneous interpolator

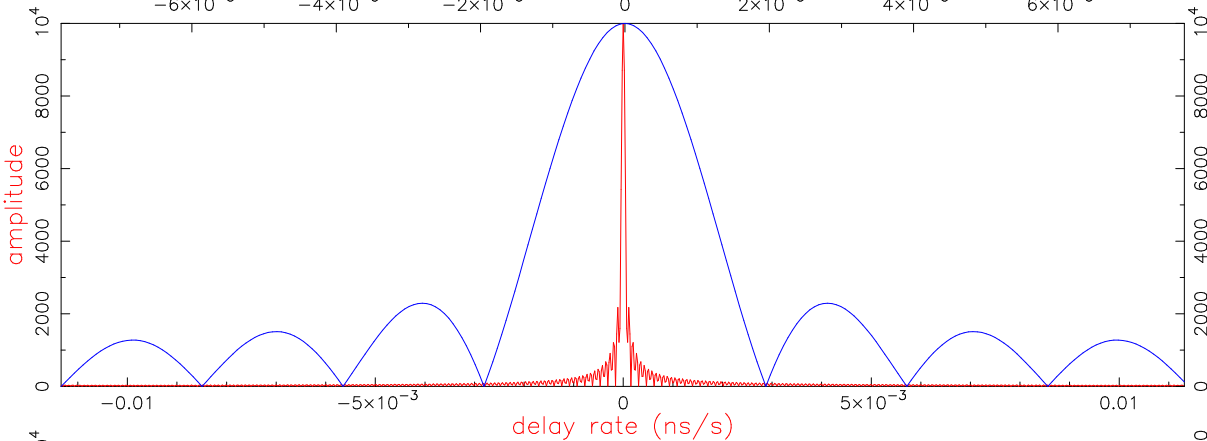
Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//bb..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//bb.W.27.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

aux01

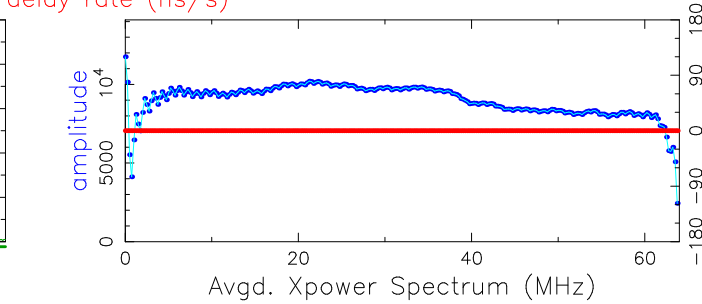
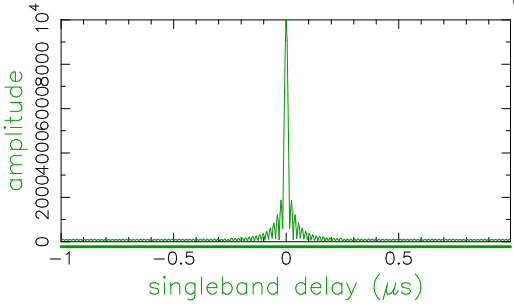
3C371.3MP15Q, No0901, BB

EFLSBERG - EFLSBERG, fgroup W, pol LL



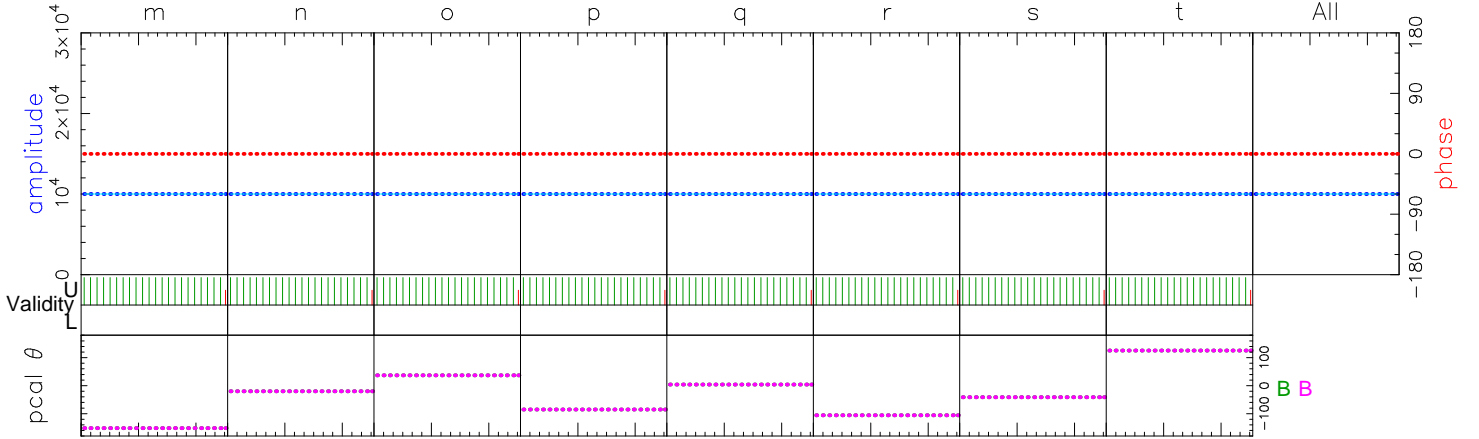
Fringe quality 9

SNR 334892.5
 Int time 149.974
 Amp 10000.000
 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. c241a
 Yr:day 1234
 Start 2024:109
 Stop 2024:109
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105513
 2024:113:095956
 RA & Dec (J2000) 18h06m50.680649s +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	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	257.0	257.0
B	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	257.0	257.0
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	10000.0	10000.0

Group delay (usec) (SBD)	0.000000000000E+00	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	0.000000E+00	+/-	3.2E-09
Sband delay (usec)	0.000000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.000000E+00	+/-	2.6E-08
Phase delay (usec)	0.000000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.000000E+00	+/-	1.1E-11
Delay rate (us/s)	0.000000000000E+00	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	0.000000E+00	+/-	1.3E-13
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	RMS	Theor.	Amplitude	10000.000 +/- 0.030	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	0.0	0.0	0.0	Search (1024X32)	10000.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	SampCntNorm: enabled	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	10000.000	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	ion window (TEC) 0.00 0.00

B: az 4.0 el 30.6 pa -7.6 B: az 4.0 el 30.6 pa -7.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901/BB..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901/BB.W.53.3MP15Q

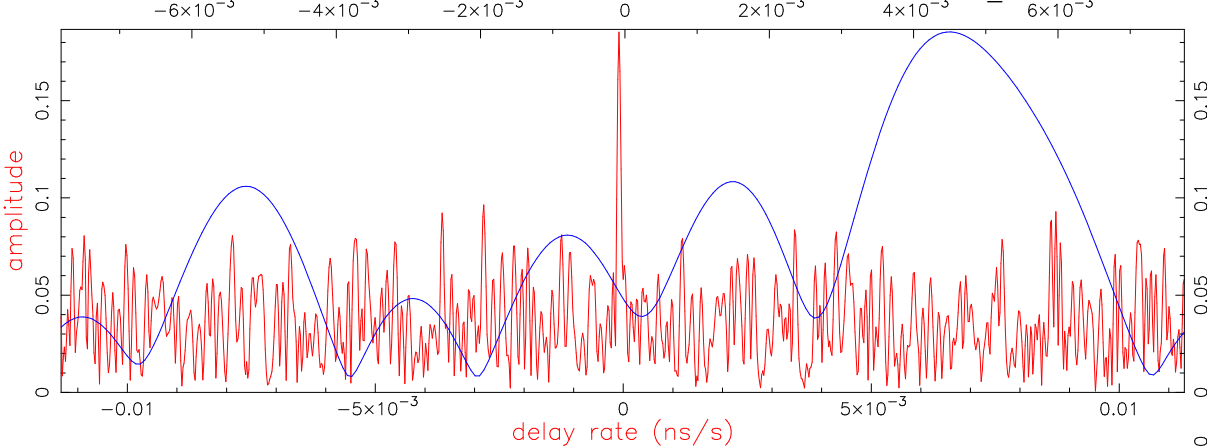
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, bB

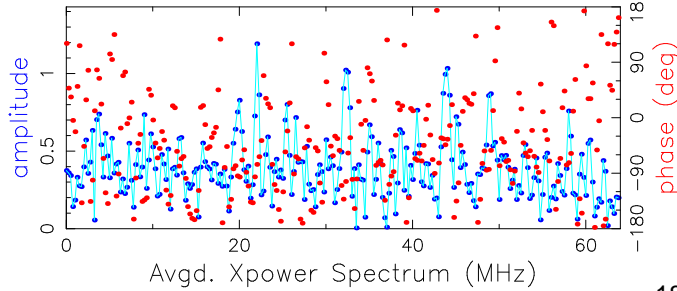
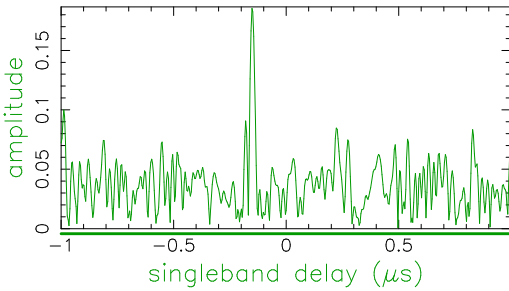
VLBA_BR - EFLSBERG, fgroup W, pol LL

multiband delay (μ s)



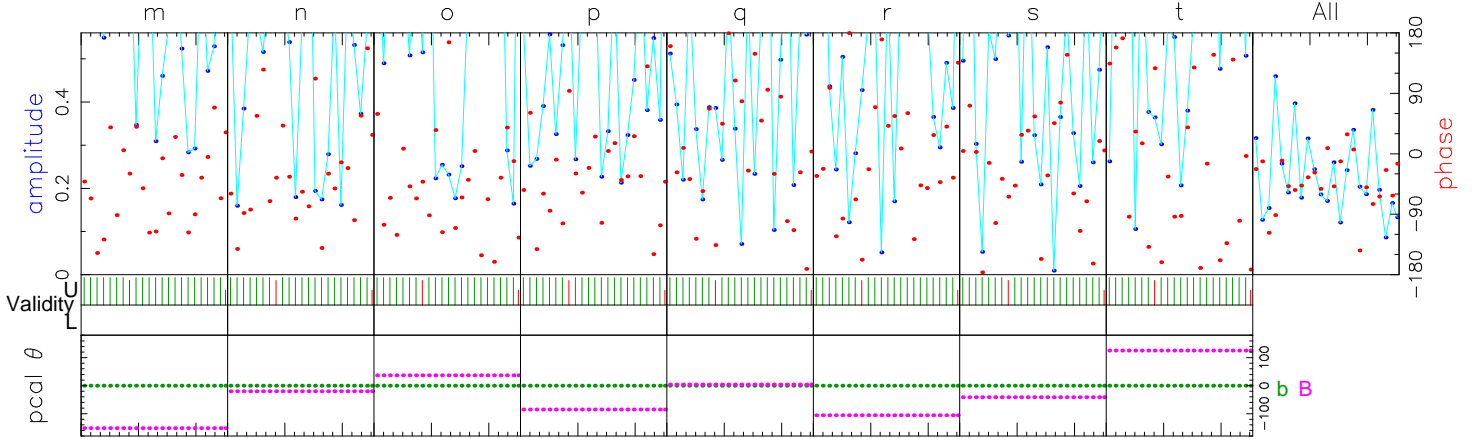
Fringe quality 0

SNR 6.2
 Int time 149.263
 Amp 0.187
 Phase -43.4
 PFD 5.8e-02
 Delays (us)
 SBD -0.150951
 MBD 0.004456
 Fringe rate (Hz)
 -0.006833
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105457
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-45.3	-47.0	-63.0	-33.1	20.2	-9.5	-10.5	-155.8	Phase	-43.4
	0.4	0.2	0.3	0.3	0.0	0.2	0.2	0.2	Ampl.	0.2
	218.5	220.6	218.1	216.8	115.8	176.7	476.8	249.4	Sbd box	218.4
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
B	0	0	0	0	0	0	0	0	PC freqs	
b:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:B	0:-151	0:-20	0:37	0:-85	0:4	0:-106	0:-41	0:125	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	6.26697060504E+03	Apriori delay (usec)	6.26712239856E+03	Resid mbdelay (usec)	4.45647E-03	+/-	1.7E-04
Sband delay (usec)	6.26697144781E+03	Apriori clock (usec)	4.0037495E+01	Resid sbdelay (usec)	-1.50951E-01	+/-	1.4E-03
Phase delay (usec)	6.26712239716E+03	Apriori clockrate (us/s)	7.6597994E-07	Resid phdelay (usec)	-1.40060E-06	+/-	5.9E-07
Delay rate (us/s)	-3.81991226821E-01	Apriori rate (us/s)	-3.81991147498E-01	Resid rate (us/s)	-7.93230E-08	+/-	6.8E-09
Total phase (deg)	104.9	Apriori accel (us/s/s)	-3.60027811523E-05	Resid phase (deg)	-43.4	+/-	18.4

ph/seg (deg)	RMS 39.5	Theor. 44.1	Amplitude Search (1024X32)	0.187 +/- 0.030	0.180	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	56.6	76.9	Interp.	0.000	0.180	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	56.9	26.0	Inc. seg. avg.	0.180	0.180	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	55.9	45.4	Inc. frq. avg.	0.213	0.213	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 328.9 el 53.3 pa 92.4 B: az 4.0 el 30.6 pa -7.6 u,v (fr/asec) 6245.708 -7851.682 simultaneous interpolator

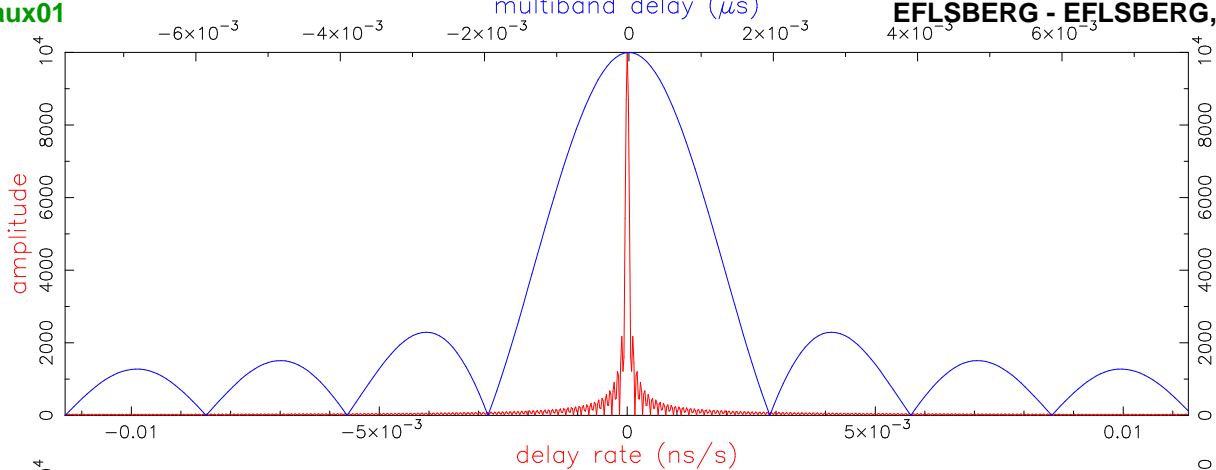
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Mk4/DiFX fourfit 3.25 rev 0

aux01

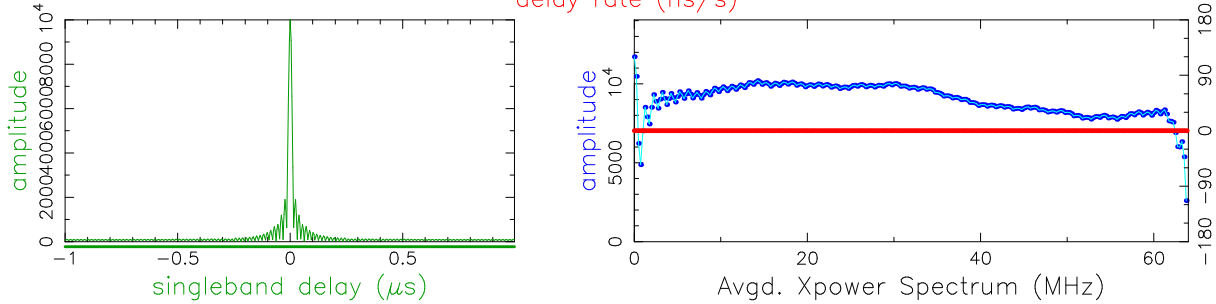
3C371.3MP15Q, No0901, BB

EFLSBERG - EFLSBERG, fgroup W, pol RR



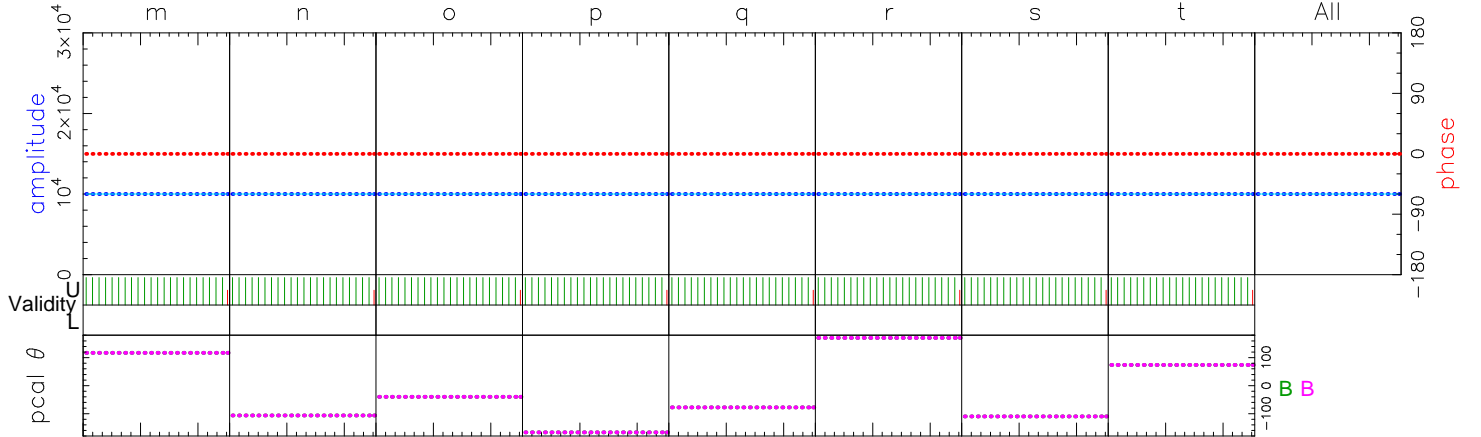
Fringe quality 9

SNR 334892.5
 Int time 149.974
 Amp 10000.000
 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. c241a
 Yr:day 1234
 Start 2024:109
 Stop 2025:007:141222
 FRT 2025:041:105514
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	10000.0	10000.0
B	0	0	0	0	0	0	0	0	Ampl.	257.0
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	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	3.2E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	2.6E-08
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.1E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	1.3E-13
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

ph/seg (deg)	0.0	RMS	Theor.	Amplitude	10000.000 +/- 0.030	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	0.0	0.0	0.0	Search (1024X32)	10000.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	10000.000	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			
B: az 4.0 el 30.6 pa -7.6				u, v (fr/asec)	0.000	0.000		simultaneous interpolator		

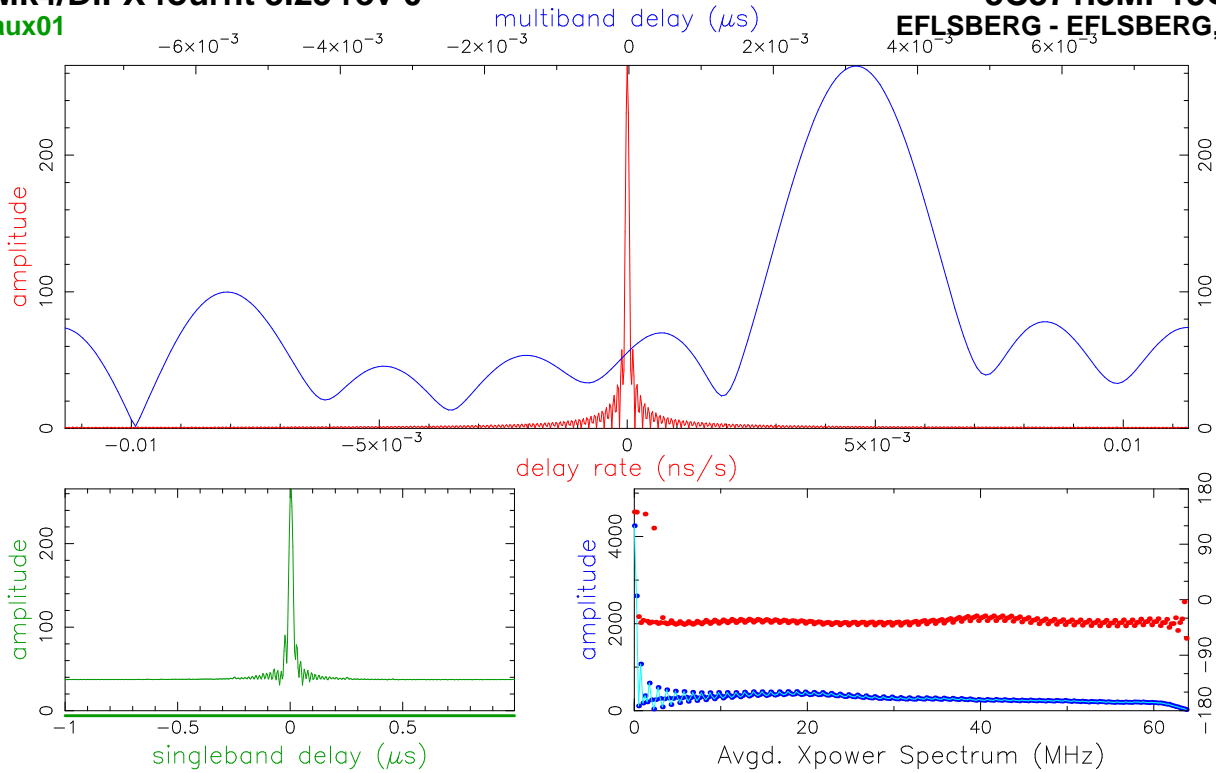
Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901/BB..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901/BB.W.62.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

aux01

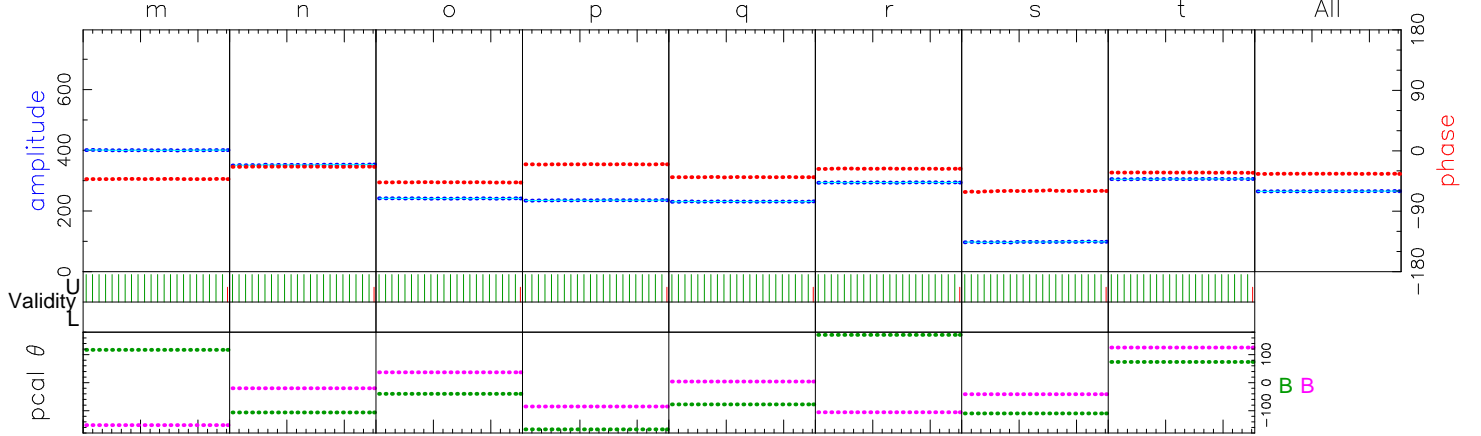
3C371.3MP15Q, No0901, BB

EFLSBERG - EFLSBERG, fgroup W, pol RL



Fringe quality 7
 Error code G
 SNR 8899.0
 Int time 149.974
 Amp 265.728
 Phase -34.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.003239
 MBD 0.003133
 Fringe rate (Hz) 0.000004
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105518
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-42.0	-23.7	-46.9	-20.2	-39.2	-26.7	-59.9	-32.4	Phase	-34.2
	400.4	352.1	241.5	235.4	231.2	294.0	98.1	305.4	Ampl.	269.8
	257.4	258.5	258.4	256.7	258.4	258.3	260.5	255.7	Sbd box	257.8
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
B	0	0	0	0	0	0	0	0	PC freqs	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:B	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) 3.13296875000E-03 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) 3.13297E-03 +/- 1.2E-07
 Sband delay (usec) 3.23925000000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 3.23925E-03 +/- 9.7E-07
 Phase delay (usec) -1.10384126409E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -1.10384E-06 +/- 4.2E-10
 Delay rate (us/s) 4.25134571751E-11 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) 4.25135E-11 +/- 4.8E-12
 Total phase (deg) -34.2 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) -34.2 +/- 0.0

RMS Theor. Amplitude 265.728 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.1 0.0 Search (1024X32) 259.633 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.2 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 14.6 0.0 Inc. seg. avg. 265.269 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 32.3 0.0 Inc. frq. avg. 269.762 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 B: az 4.0 el 30.6 pa -7.6 B: az 4.0 el 30.6 pa -7.6 u, v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//BB..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//BB.W.78.3MP15Q

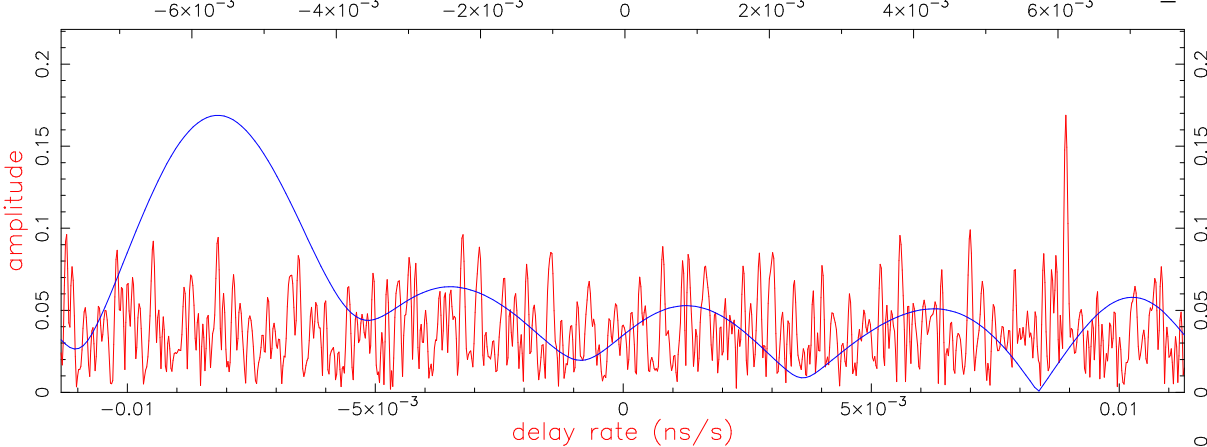
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, Bf

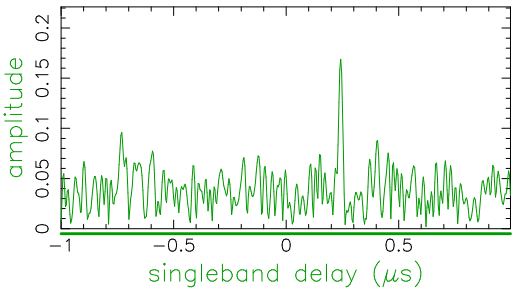
EFLSBERG - VLBA_FD, fgroup W, pol LL

multiband delay (μ s)

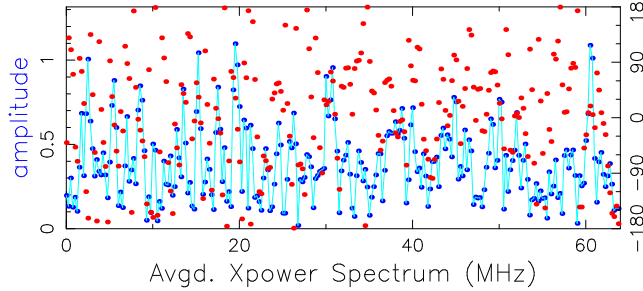


Fringe quality 0

SNR 5.7
 Int time 149.974
 Amp 0.221
 Phase -3.2
 PFD 8.5e-01
 Delays (us)
 SBD 0.241870
 MBD -0.005660
 Fringe rate (Hz)
 0.769222
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

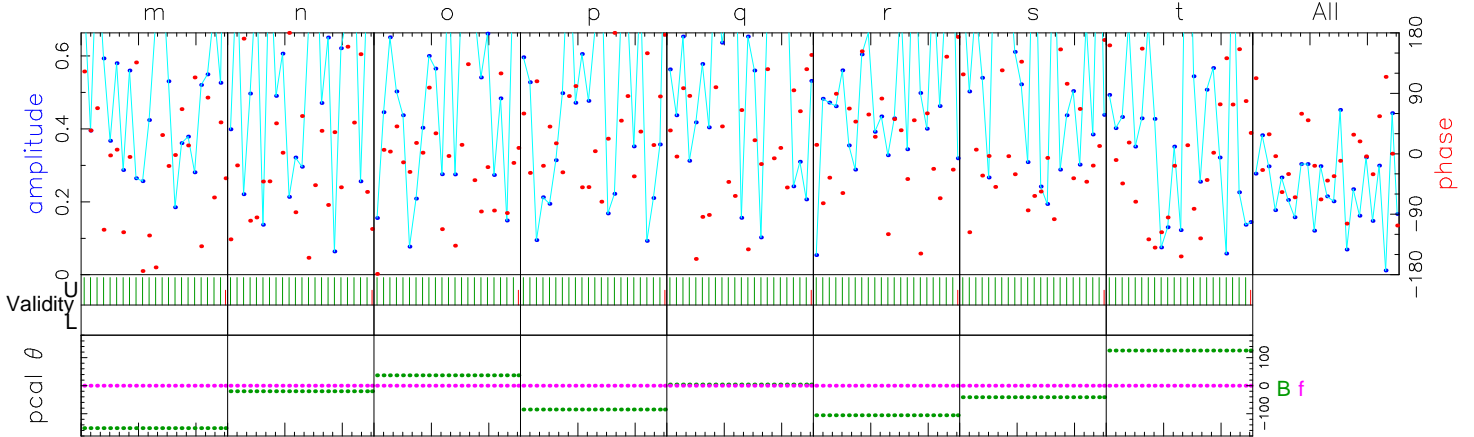


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105513
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
B	0	0	0	0	0	0	0	0		
f	0	0	0	0	0	0	0	0		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	-5.64929473565E+02	Apriori delay (usec)	-5.65173813129E+02	Resid mbdelay (usec)	-5.66044E-03	+/-	1.9E-04
Sband delay (usec)	-5.64931943129E+02	Apriori clock (usec)	-3.5457809E+01	Resid sbdelay (usec)	2.41870E-01	+/-	1.5E-03
Phase delay (usec)	-5.65173813232E+02	Apriori clockrate (us/s)	-2.3975895E-07	Resid phdelay (usec)	-1.03113E-07	+/-	6.5E-07
Delay rate (us/s)	5.14302302337E-01	Apriori rate (us/s)	5.14293372430E-01	Resid rate (us/s)	8.92991E-06	+/-	7.5E-09
Total phase (deg)		Apriori accel (us/s/s)	3.05940881441E-05	Resid phase (deg)	-3.2	+/-	20.3

ph/seg (deg)	56.2	Theor.	48.6	Amplitude	0.221 +/- 0.039	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	76.7	Search (1024X32)	0.166	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	31.0	Inc. seg. avg.	0.232	Inc. frq. avg.	0.222	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	34.0	Inc. frq. avg.	0.222			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 4.0 el 30.6 pa -7.6 f: az 336.4 el 32.3 pa 88.6 u,v (fr/asec) -8451.523 7440.117 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bf..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bf.W.54.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

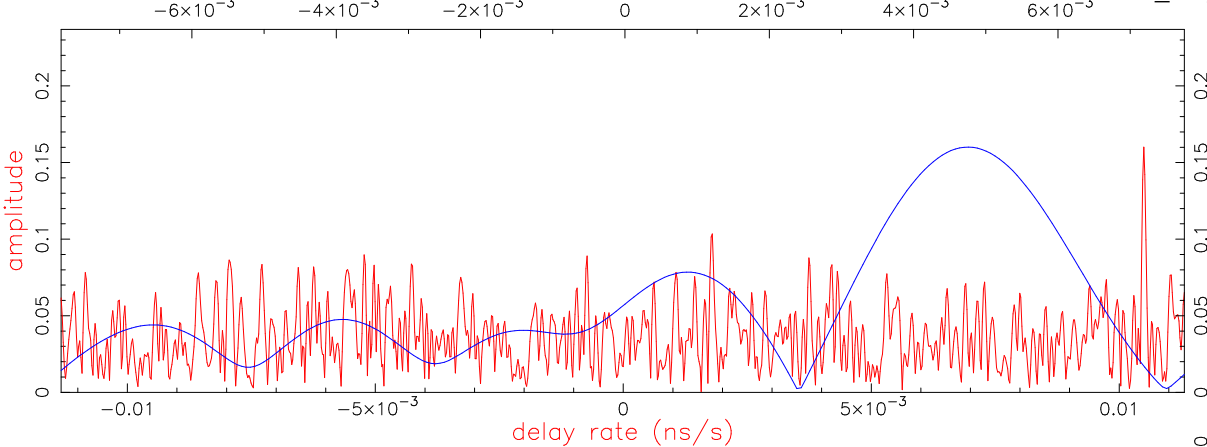
aux01

3C371.3MP15Q, No0901, Bf

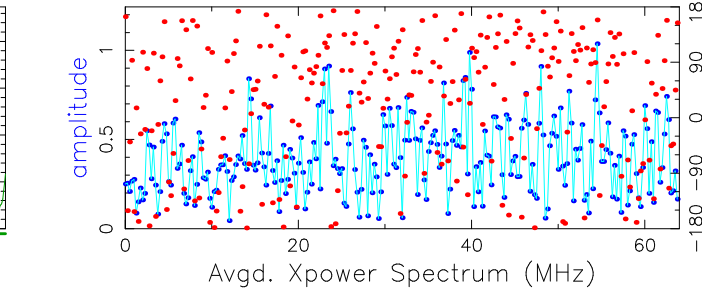
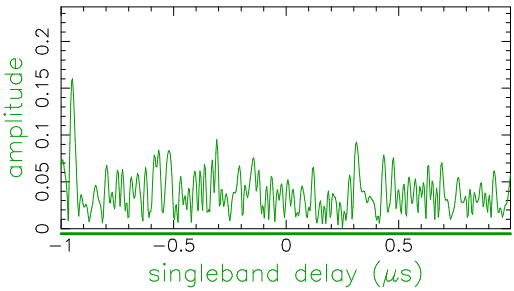
EFLSBERG - VLBA_FD, fgroup W, pol RR

multiband delay (μ s)

Fringe quality 0

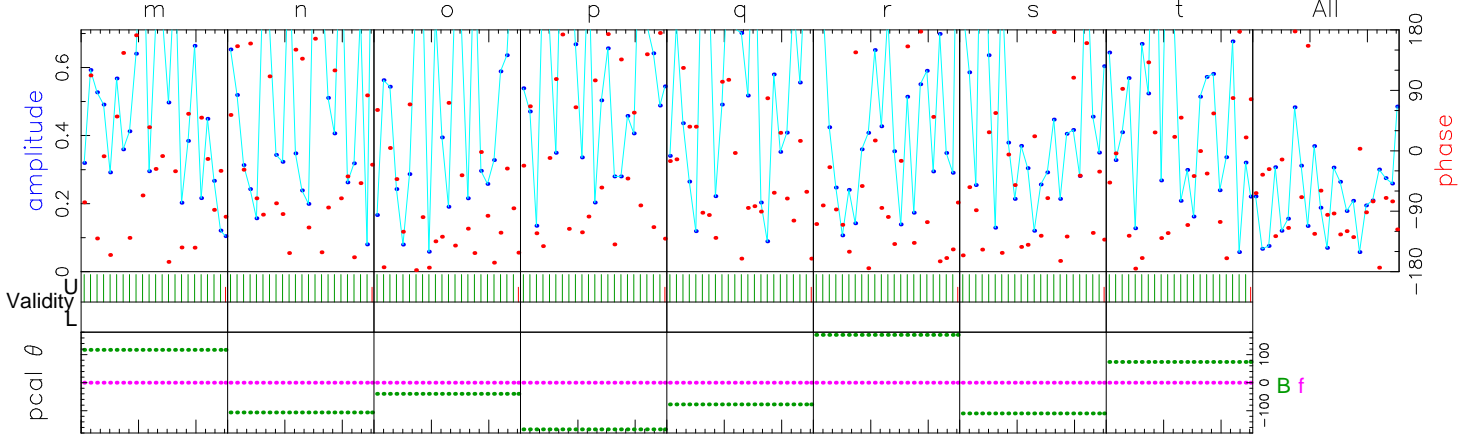


SNR 5.4
 Int time 149.974
 Amp 0.237
 Phase -107.0
 PFD 1.0e+00
 Delays (us)
 SBD -0.950689
 MBD 0.004746
 Fringe rate (Hz)
 0.906105
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105516
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-57.4	-129.1	-116.9	-131.0	-71.5	-112.4	-134.9	-6.8	Phase	-107.0
	0.2	0.2	0.4	0.3	0.3	0.4	0.3	0.1	Ampl.	0.2
	431.0	112.0	24.0	499.5	12.9	412.7	473.2	287.2	Sbd box	13.6
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
f	0	0	0	0	0	0	0	0	PC freqs	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:f	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	
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-5.66122192279E+02	Apriori delay (usec)	-5.65173813129E+02	Resid mbdelay (usec)	4.74585E-03	+/-	2.0E-04
Sband delay (usec)	-5.66124502629E+02	Apriori clock (usec)	-3.5457809E+01	Resid sbdelay (usec)	-9.50689E-01	+/-	1.6E-03
Phase delay (usec)	-5.65173816581E+02	Apriori clockrate (us/s)	-2.3975895E-07	Resid phdelay (usec)	-3.45206E-06	+/-	6.8E-07
Delay rate (us/s)	5.14303891405E-01	Apriori rate (us/s)	5.14293372430E-01	Resid rate (us/s)	1.05190E-05	+/-	7.9E-09
Total phase (deg)	-201.7	Apriori accel (us/s/s)	3.05940881441E-05	Resid phase (deg)	-107.0	+/-	21.2

ph/seg (deg)	53.0	Theor.	50.8	Amplitude	0.237 +/- 0.044	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	79.1	Search (1024X32)	0.159	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	51.2	Interp.	0.000	Inc. seg. avg.	0.235	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	41.0	Inc. frq. avg.	0.246	Inc. frq. avg.	0.246	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
B: az 4.0 el 30.6 pa -7.6		f: az 336.4 el 32.3 pa 88.6		u, v (fr/asec)	-8451.523 7440.117	Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

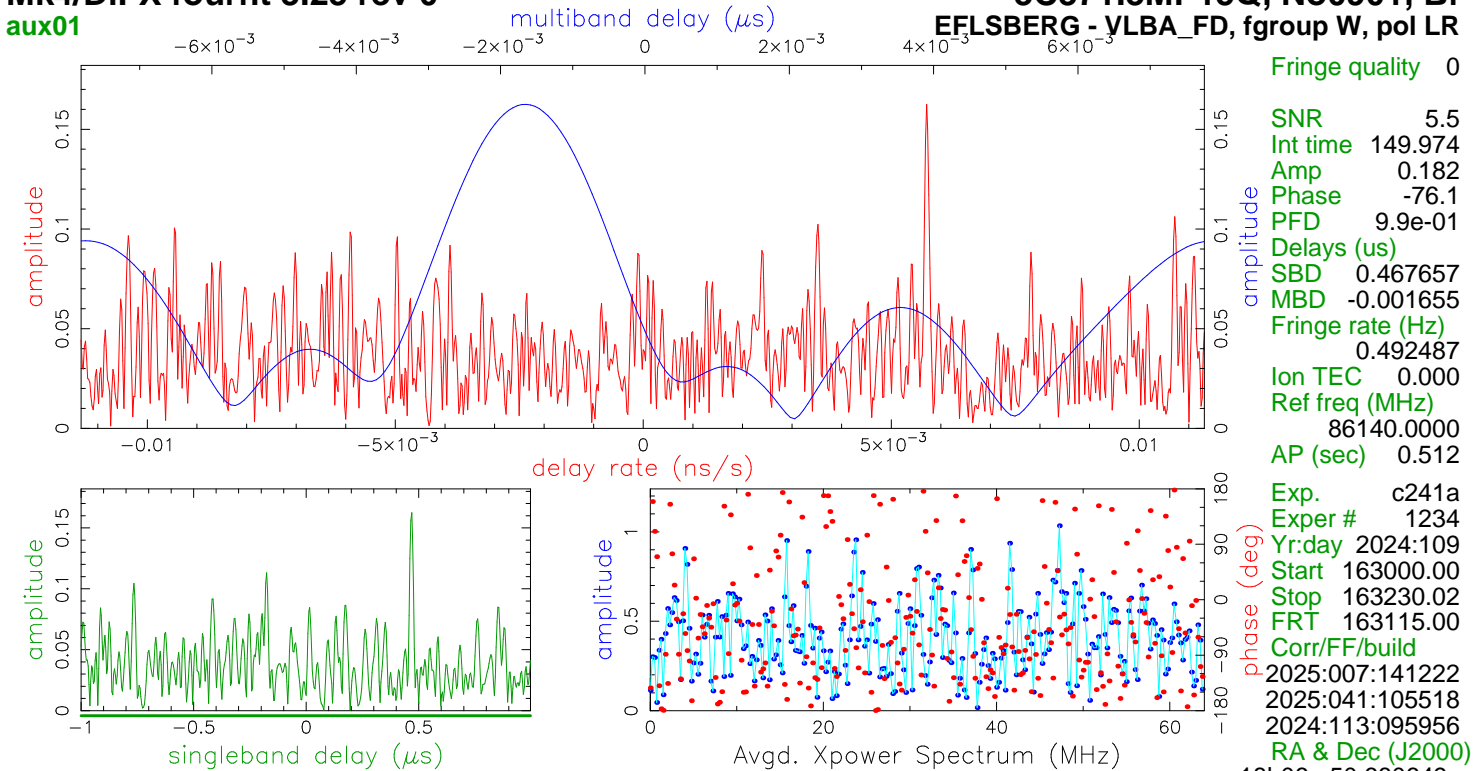
Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901/Bf..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901/Bf.W.69.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

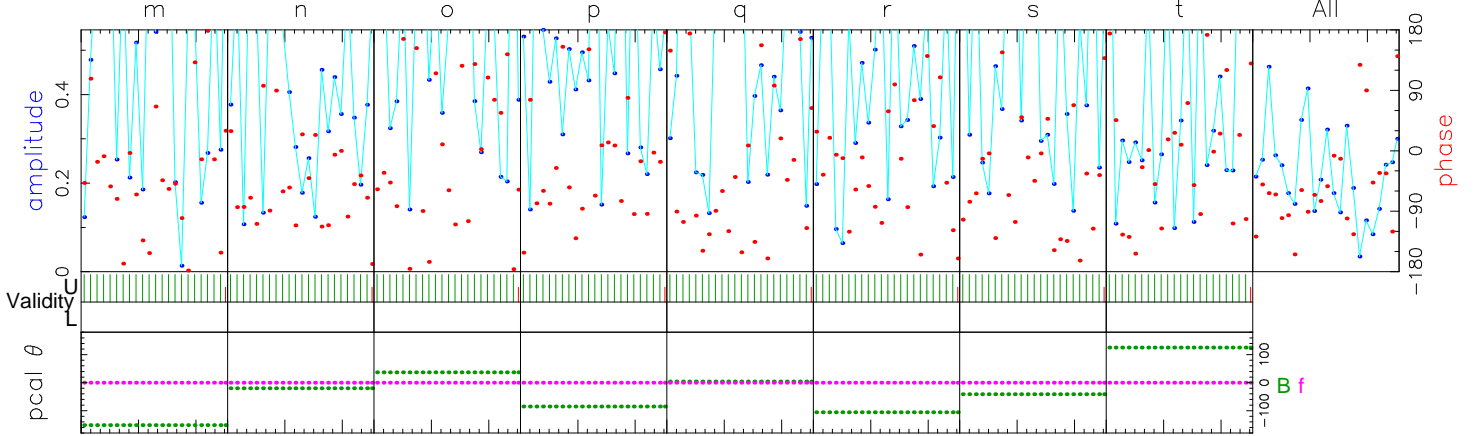
aux01

3C371.3MP15Q, No0901, Bf

EFLSBERG - VLBA_FD, fgroup W, pol LR



Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-52.3	-69.4	-145.4	-64.5	-108.3	-45.2	-81.0	-11.7	Phase	-76.1
	0.2	0.3	0.1	0.3	0.2	0.1	0.3	0.1	Ampl.	0.2
	23.6	107.4	260.5	377.4	124.7	24.0	378.1	366.2	Sbd box	376.7
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
f	0	0	0	0	0	0	0	0	PC freqs	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:f	-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	
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec) (SBD)	-5.64706718604E+02		Apriori delay (usec)	-5.65173813129E+02	Resid mbdelay (usec)	-1.65548E-03	+/-	2.0E-04		
Sband delay (usec)	-5.64706156379E+02		Apriori clock (usec)	-3.5457809E+01	Resid sbdelay (usec)	4.67657E-01	+/-	1.6E-03		
Phase delay (usec)	-5.65173815582E+02		Apriori clockrate (us/s)	-2.3975895E-07	Resid phdelay (usec)	-2.45255E-06	+/-	6.7E-07		
Delay rate (us/s)	5.14299089710E-01		Apriori rate (us/s)	5.14293372430E-01	Resid rate (us/s)	5.71728E-06	+/-	7.8E-09		
Total phase (deg)		-170.7	Apriori accel (us/s/s)	3.05940881441E-05	Resid phase (deg)	-76.1	+/-	20.9		
RMS	64.2	50.2	Search (1024X32)	0.160	PCal mode: MANUAL, MANUAL	PC period (AP's)	5, 5			
ph/seg (deg)	72.4	87.5	Interp.	0.000	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	44.2	29.6	Inc. seg. avg.	0.180	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	52.8	51.6	Inc. frq. avg.	0.182	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	dr window (ns/s)	-0.011	0.011	
amp/frq (%)					Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00	
B: az 4.0 el 30.6 pa -7.6		f: az 336.4 el 32.3 pa 88.6		u, v (fr/asec) -8451.523 7440.117					simultaneous interpolator	
Control file: cf_1234_gmva		Input file: /Exps/c241a/v2/3mm/1234/No0901//Bf..3MP15Q		Output file: /Exps/c241a/v2/3mm/1234/No0901//Bf.W.80.3MP15Q						

Mk4/DiFX fourfit 3.25 rev 0

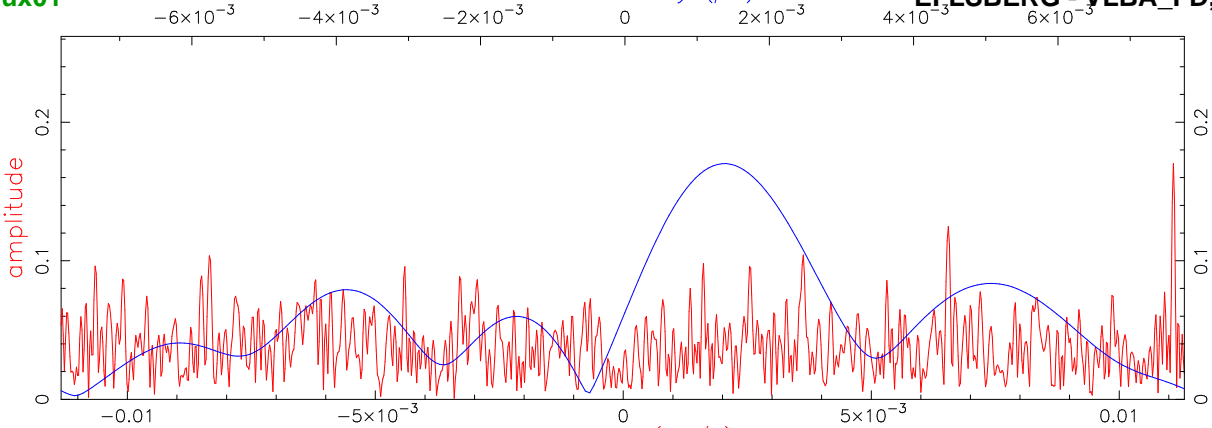
aux01

3C371.3MP15Q, No0901, Bf

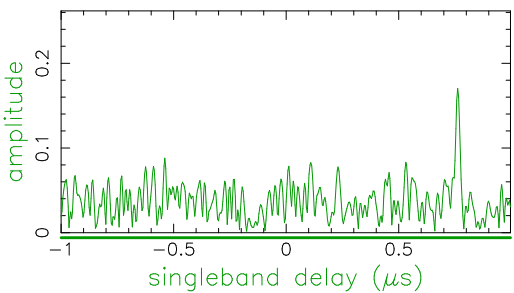
EFLSBERG - VLBA_FD, fgroup W, pol RL

multiband delay (μ s)

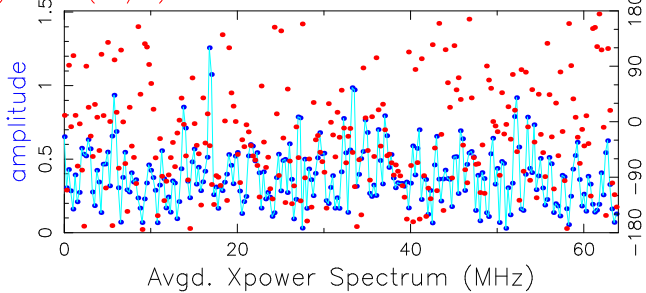
Fringe quality 0



SNR 5.7
 Int time 149.974
 Amp 0.262
 Phase 84.9
 PFD 7.7e-01
 Delays (us)
 SBD 0.762046
 MBD 0.001386
 Fringe rate (Hz)
 0.956102
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

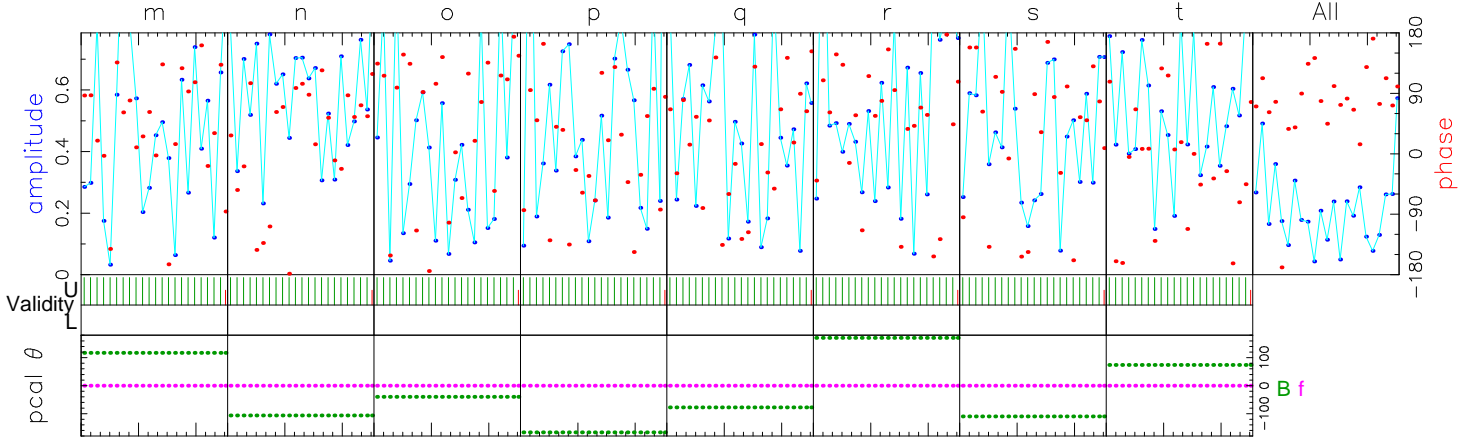


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105520
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
B	0	0	0	0	0	0	0	0		
f	0	0	0	0	0	0	0	0		
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	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		
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	-5.64406801655E+02	Apriori delay (usec)	-5.65173813129E+02	Resid mbdelay (usec)	1.38647E-03	+/-	1.9E-04
Sband delay (usec)	-5.64411766879E+02	Apriori clock (usec)	-3.5457809E+01	Resid sbdelay (usec)	7.62046E-01	+/-	1.5E-03
Phase delay (usec)	-5.65173810390E+02	Apriori clockrate (us/s)	-2.3975895E-07	Resid phdelay (usec)	2.73904E-06	+/-	6.5E-07
Delay rate (us/s)	5.14304471830E-01	Apriori rate (us/s)	5.14293372430E-01	Resid rate (us/s)	1.10994E-05	+/-	7.5E-09
Total phase (deg)	-9.7	Apriori accel (us/s/s)	3.05940881441E-05	Resid phase (deg)	84.9	+/-	20.1

ph/seg (deg)	RMS 42.6	Theor. 48.2	Amplitude Search (1024X32)	0.262 +/- 0.046	0.167	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	72.8	84.1	Interp.	0.000	0.167	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	42.6	28.4	Inc. seg. avg.	0.239	0.167	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	41.7	49.6	Inc. frq. avg.	0.270	0.167	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 4.0 el 30.6 pa -7.6 f: az 336.4 el 32.3 pa 88.6 u,v (fr/asec) -8451.523 7440.117 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901/Bf..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901/Bf.W.87.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

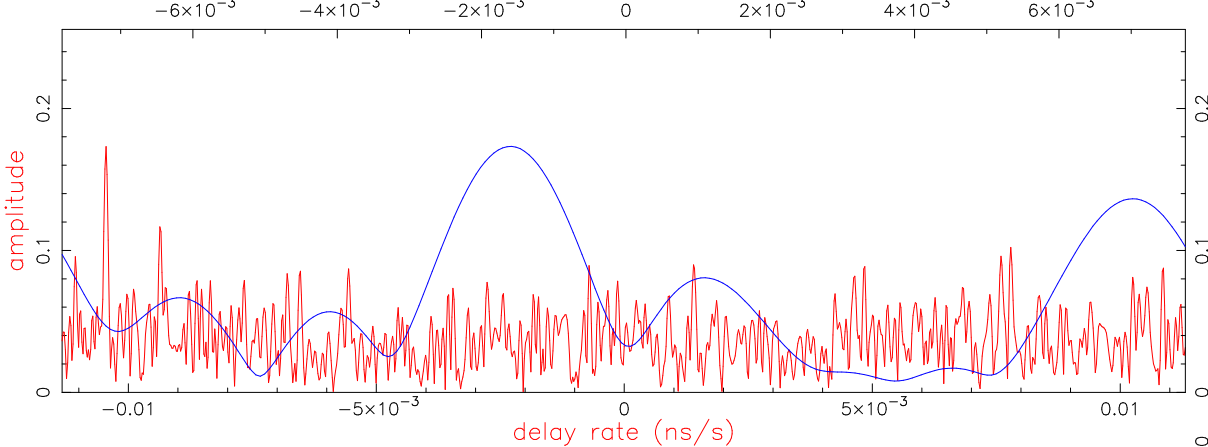
aux01

3C371.3MP15Q, No0901, Bg

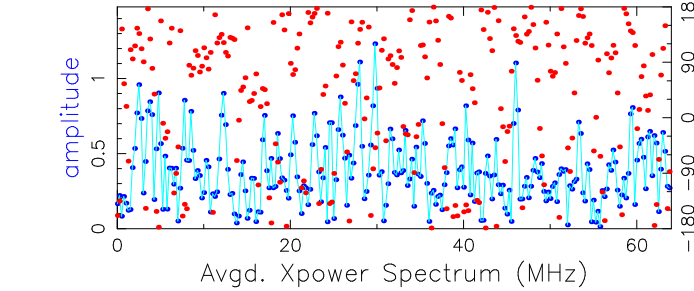
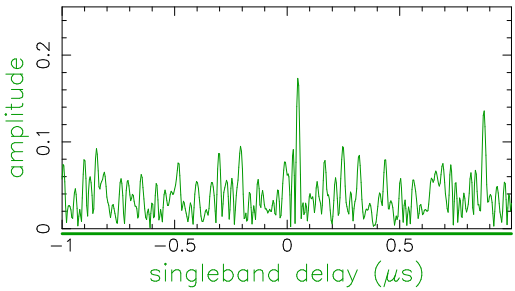
EFLSBERG - GLT, fgroup W, pol LL

multiband delay (μ s)

Fringe quality 0

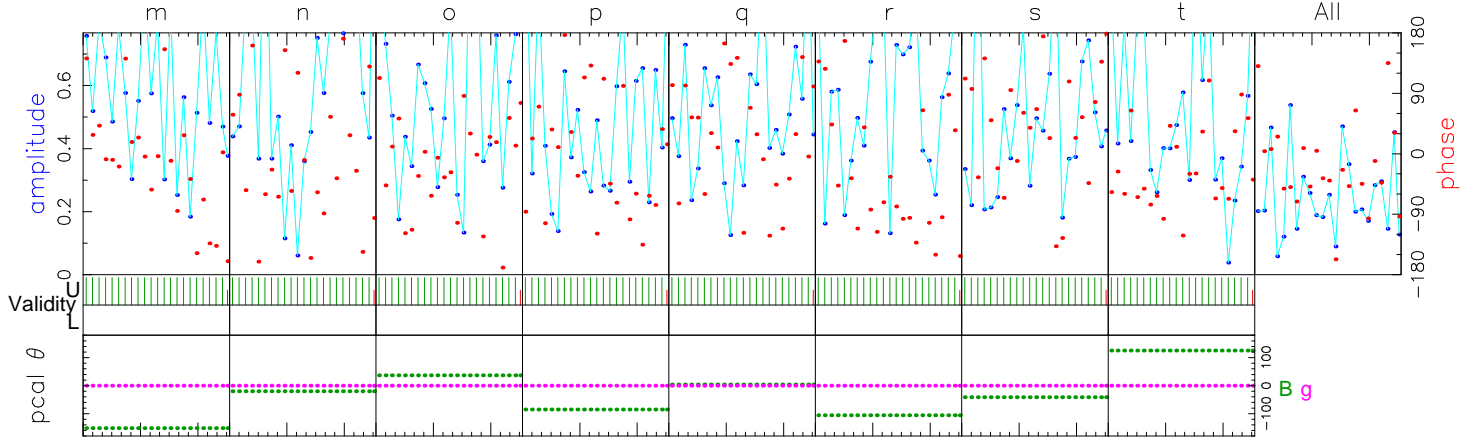


SNR 5.9
 Int time 149.973
 Amp 0.256
 Phase -21.1
 PFD 4.4e-01
 Delays (us)
 SBD 0.048013
 MBD -0.001571
 Fringe rate (Hz)
 -0.902003
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105513
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-13.1	-50.6	-0.4	-50.6	20.1	-92.5	34.4	-29.7	Phase	-21.1
	0.4	0.3	0.5	0.1	0.3	0.3	0.2	0.4	Ampl.	0.3
	350.8	481.0	268.6	253.0	82.1	198.1	213.6	273.7	Sbd box	269.3
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD) -7.92736096181E+03 Apriori delay (usec) -7.92740626627E+03 Resid mbdelay (usec) -1.57054E-03 +/- 1.9E-04
 Sband delay (usec) -7.92735825302E+03 Apriori clock (usec) -3.5864304E+01 Resid sbdelay (usec) 4.80133E-02 +/- 1.5E-03
 Phase delay (usec) -7.92740626695E+03 Apriori clockrate (us/s) -2.6949992E-07 Resid phdelay (usec) -6.81259E-07 +/- 6.3E-07
 Delay rate (us/s) 1.74563320185E-01 Apriori rate (us/s) 1.74573791548E-01 Resid rate (us/s) -1.04714E-05 +/- 7.3E-09
 Total phase (deg) -300.6 Apriori accel (us/s/s) 2.06438675293E-05 Resid phase (deg) -21.1 +/- 19.6

RMS Theor. Amplitude 0.256 +/- 0.044 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 65.5 46.9 Search (1024X32) 0.171 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 85.1 81.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 45.0 27.7 Inc. seg. avg. 0.275 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 44.1 48.3 Inc. frq. avg. 0.279 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 4.0 el 30.6 pa -7.6 g: az 318.7 el 61.6 pa 26.5 u,v (fr/asec) -2847.650 3830.312 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bg..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bg.W.56.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

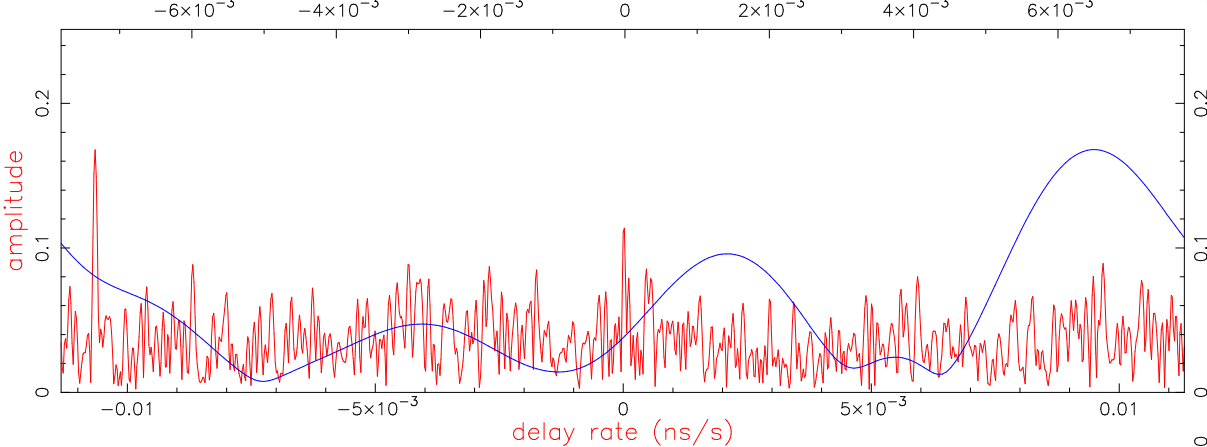
aux01

3C371.3MP15Q, No0901, Bg

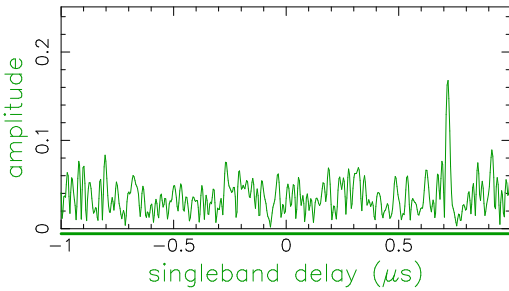
EFLSBERG - GLT, fgroup W, pol RR

multiband delay (μ s)

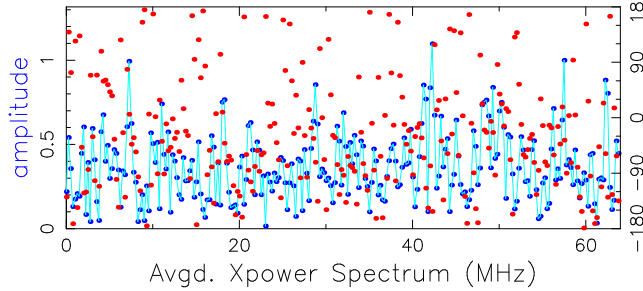
Fringe quality 0



SNR 5.7
 Int time 149.973
 Amp 0.251
 Phase -143.9
 PFD 8.3e-01
 Delays (us)
 SBD 0.717528
 MBD 0.006448
 Fringe rate (Hz) -0.919083
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

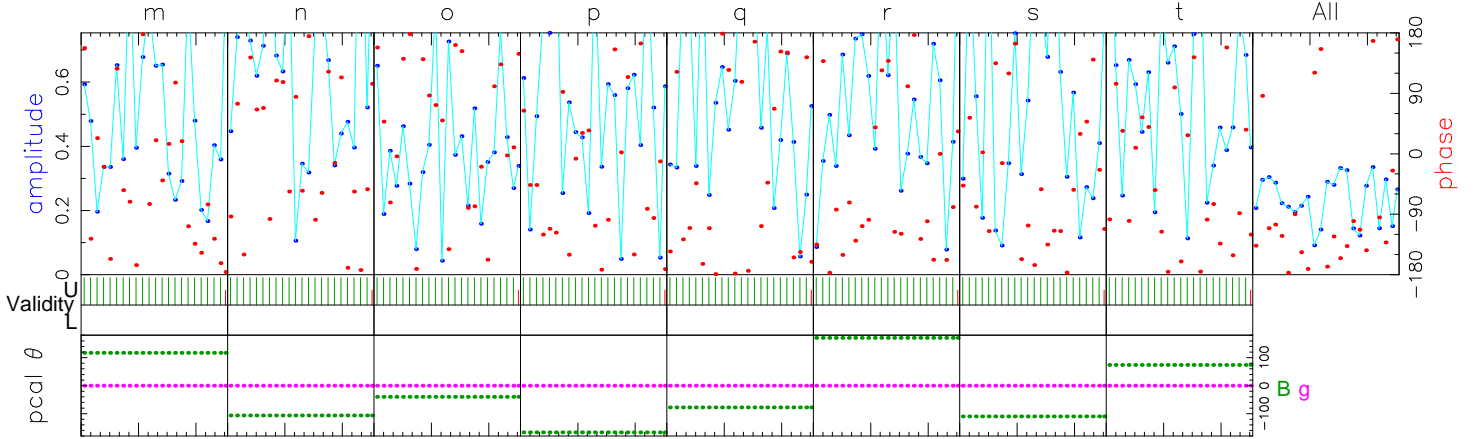


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105515
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-112.3	-168.4	140.9	-118.2	-171.0	-141.4	-114.0	-144.2	Phase	-143.9
	0.3	0.1	0.2	0.3	0.5	0.3	0.3	0.2	Ampl.	0.3
	361.2	301.9	227.8	305.7	442.3	367.7	156.8	17.2	Sbd box	440.7
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	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	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	
g	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-7.92668106783E+03	Apriori delay (usec)	-7.92740626627E+03	Resid mbdelay (usec)	6.44844E-03	+/-	1.9E-04
Sband delay (usec)	-7.92668873877E+03	Apriori clock (usec)	-3.5864304E+01	Resid sbdelay (usec)	7.17528E-01	+/-	1.5E-03
Phase delay (usec)	-7.92740627091E+03	Apriori clockrate (us/s)	-2.6949992E-07	Resid phdelay (usec)	-4.63913E-06	+/-	6.5E-07
Delay rate (us/s)	1.74563121901E-01	Apriori rate (us/s)	1.74573791548E-01	Resid rate (us/s)	-1.06696E-05	+/-	7.5E-09
Total phase (deg)	-63.3	Apriori accel (us/s/s)	2.06438675293E-05	Resid phase (deg)	-143.9	+/-	20.2

ph/seg (deg)	RMS 52.3	Theor. 48.5	Amplitude Search (1024X32)	0.251 +/- 0.044	0.167	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	57.3	84.6	Interp.	0.000	0.000E+00	0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	39.9	28.6	Inc. seg. avg.	0.255	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	t_cohere infinite	dr window (ns/s)	-0.011	0.011
amp/frq (%)	47.7	49.9	Inc. frq. avg.	0.258	Data rate(Mb/s): 2048	ion window (TEC)	0.00	0.00	0.00	0.00

B: az 4.0 el 30.6 pa -7.6 g: az 318.7 el 61.6 pa 26.5 u,v (fr/asec) -2847.650 3830.312 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bg..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bg.W.64.3MP15Q

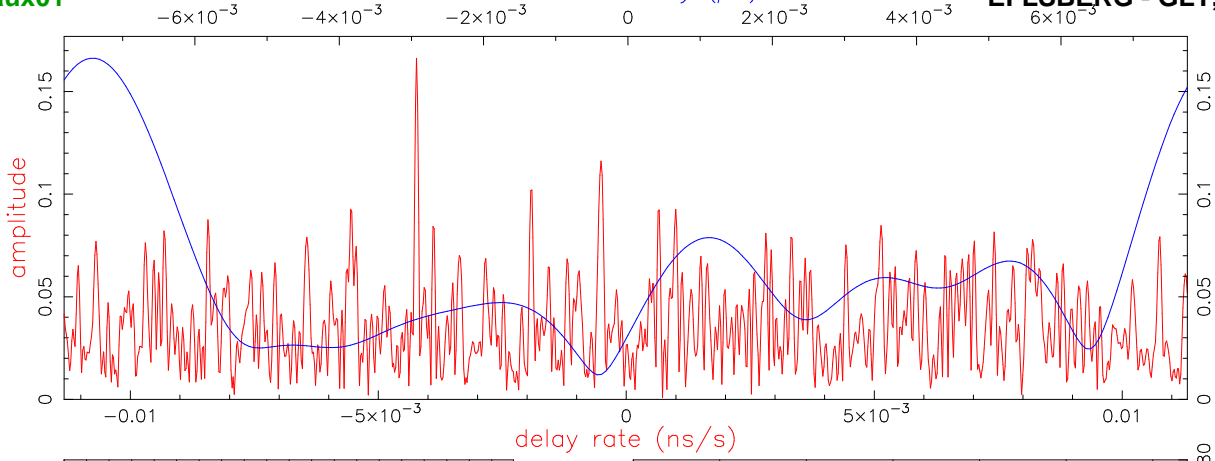
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, Bg

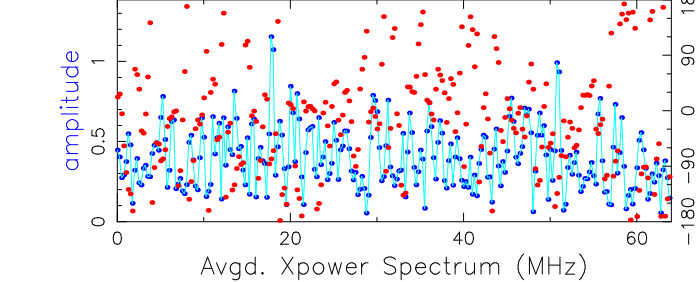
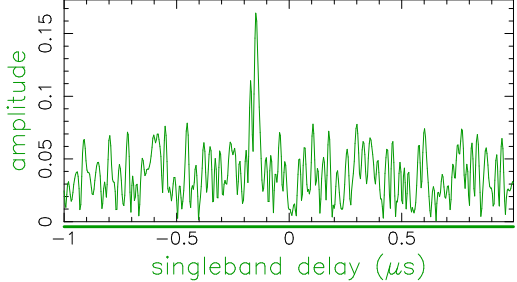
EFLSBERG - GLT, fgroup W, pol RL

multiband delay (μ s)



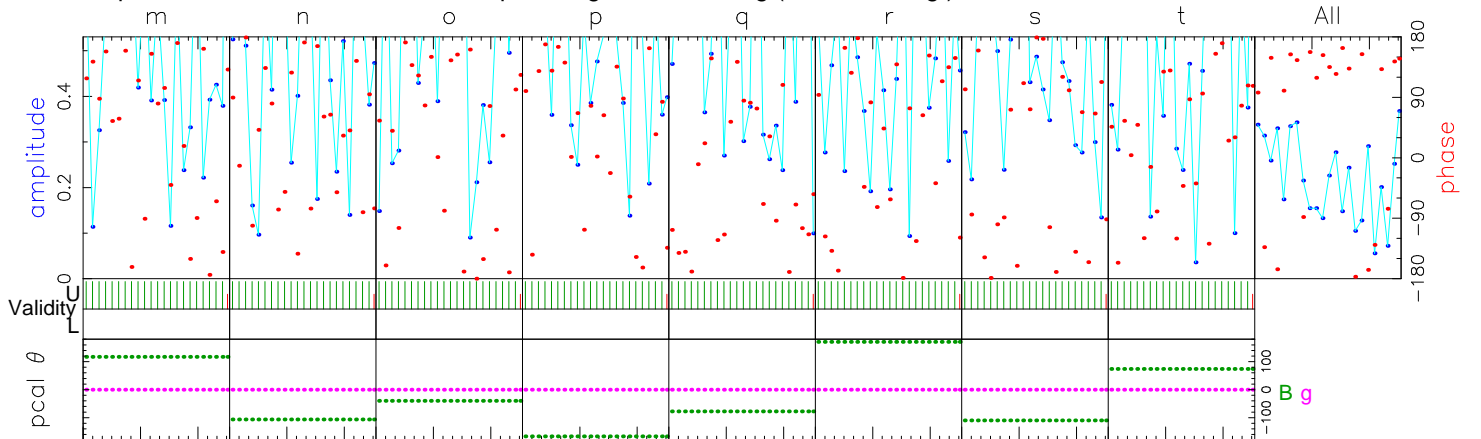
Fringe quality 0

SNR 5.6
 Int time 149.973
 Amp 0.177
 Phase 154.7
 PFD 9.4e-01
 Delays (us)
 SBD -0.147545
 MBD -0.007394
 Fringe rate (Hz)
 -0.364323
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105519
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
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)	-7.92755428478E+03	Apriori delay (usec)	-7.92740626627E+03	Resid mbdelay (usec)	-7.39351E-03	+/-	1.9E-04
Sband delay (usec)	-7.92755381102E+03	Apriori clock (usec)	-3.5864304E+01	Resid sbdelay (usec)	-1.47545E-01	+/-	1.5E-03
Phase delay (usec)	-7.92740626128E+03	Apriori clockrate (us/s)	-2.6949992E-07	Resid phdelay (usec)	4.98930E-06	+/-	6.6E-07
Delay rate (us/s)	1.74569562120E-01	Apriori rate (us/s)	1.74573791548E-01	Resid rate (us/s)	-4.22943E-06	+/-	7.6E-09
Total phase (deg)	-124.7	Apriori accel (us/s/s)	2.06438675293E-05	Resid phase (deg)	154.7	+/-	20.5

ph/seg (deg) 49.6 49.1 Search (1024X32) 0.162 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 62.2 85.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 40.3 29.0 Inc. seg. avg. 0.170 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 47.6 50.6 Inc. frq. avg. 0.174 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 B: az 4.0 el 30.6 pa -7.6 g: az 318.7 el 61.6 pa 26.5 u,v (fr/asec) -2847.650 3830.312 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bg..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bg.W.82.3MP15Q

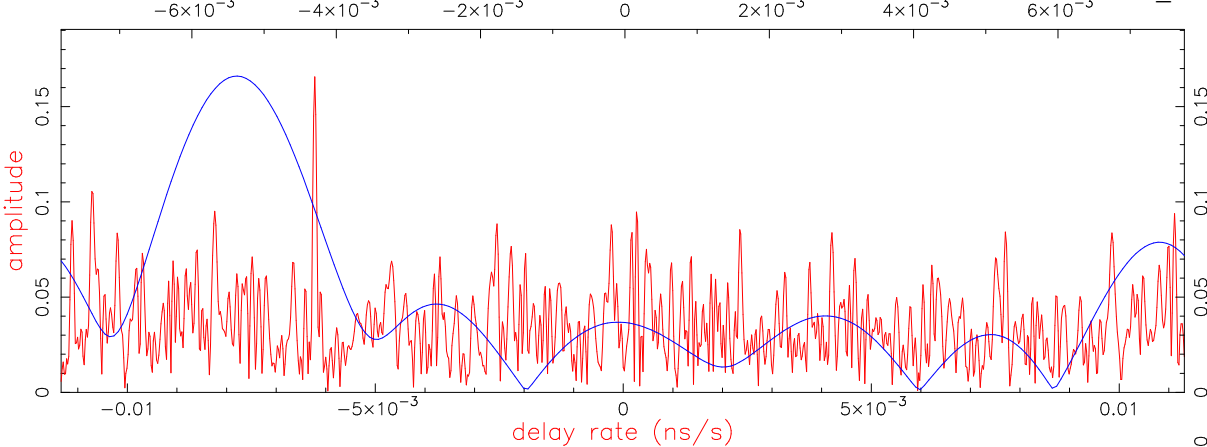
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, Bk

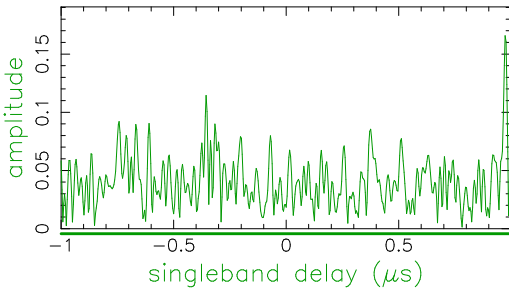
EFLSBERG - VLBA_KP, fgroup W, pol RL

multiband delay (μ s)

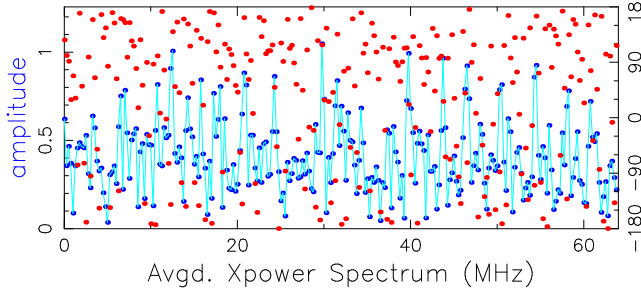


Fringe quality 0

SNR 5.6
 Int time 149.974
 Amp 0.191
 Phase -114.9
 PFD 9.0e-01
 Delays (us)
 SBD 0.974041
 MBD -0.005309
 Fringe rate (Hz)
 -0.536481
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

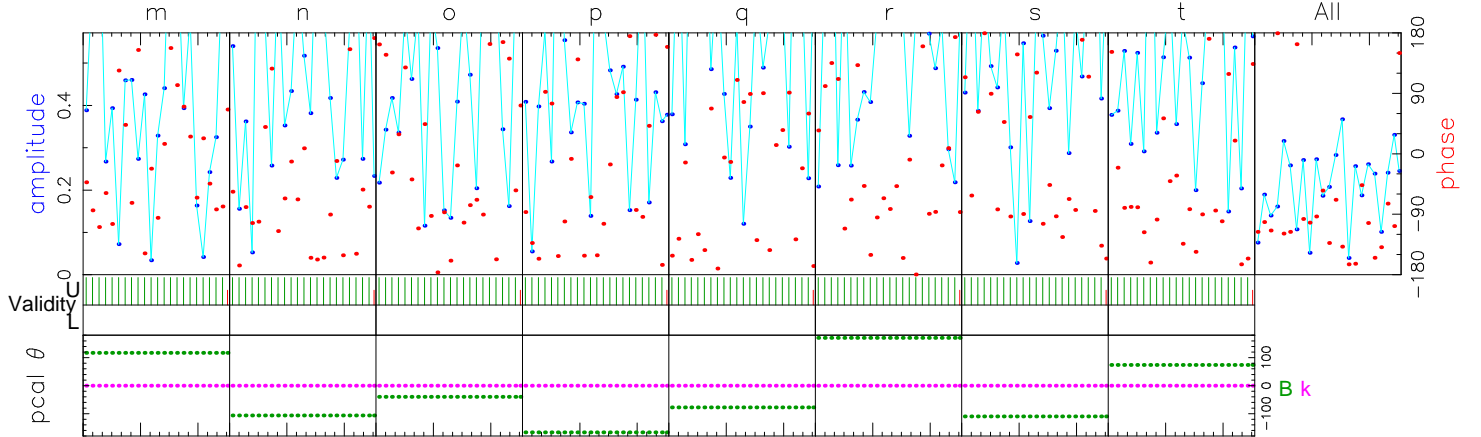


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105529
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-70.1	-104.6	-118.2	-144.2	-143.6	-107.5	-114.2	-109.2	Phase	-114.9
	0.1	0.3	0.2	0.2	0.2	0.2	0.2	0.3	Ampl.	0.2
	157.8	379.2	206.9	159.7	176.2	79.3	202.3	503.2	Sbd box	506.4
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
k	0	0	0	0	0	0	0	0	PC freqs	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-1.74857082108E+03	Apriori delay (usec)	-1.74954988680E+03	Resid mbdelay (usec)	-5.30928E-03	+/-	1.9E-04
Sband delay (usec)	-1.74857584605E+03	Apriori clock (usec)	-3.5553219E+01	Resid sbdelay (usec)	9.74041E-01	+/-	1.5E-03
Phase delay (usec)	-1.74954989050E+03	Apriori clockrate (us/s)	-3.4174508E-07	Resid phdelay (usec)	-3.70602E-06	+/-	6.6E-07
Delay rate (us/s)	4.92962073301E-01	Apriori rate (us/s)	4.92968301314E-01	Resid rate (us/s)	-6.22801E-06	+/-	7.6E-09
Total phase (deg)	-204.5	Apriori accel (us/s/s)	3.48043331820E-05	Resid phase (deg)	-114.9	+/-	20.4

ph/seg (deg)	RMS 40.6	Theor. 48.9	Amplitude Search (1024X32)	0.191 +/- 0.034	0.164	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	57.8	85.4	Interp.	0.000	0.173	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	25.5	28.8	Inc. seg. avg.	0.173	0.176	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	30.3	50.3	Inc. frq. avg.	0.176		Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 4.0 el 30.6 pa -7.6 k: az 336.1 el 36.1 pa 95.2 u,v (fr/asec) -8086.786 8275.364 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bk..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bk.W.103.3MP15Q

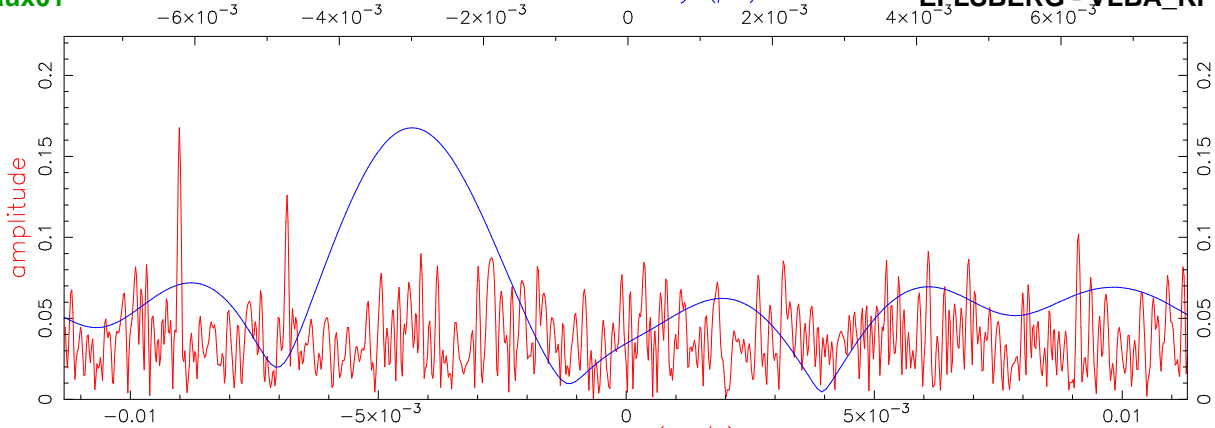
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, Bk

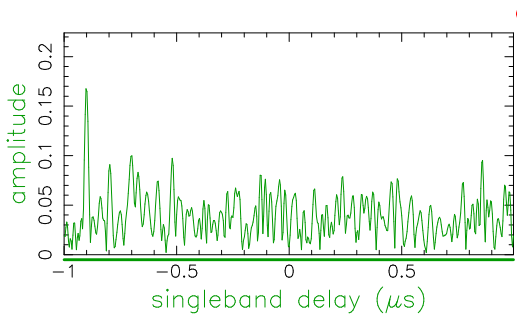
EFLSBERG - VLBA_KP, fgroup W, pol LL

multiband delay (μ s)

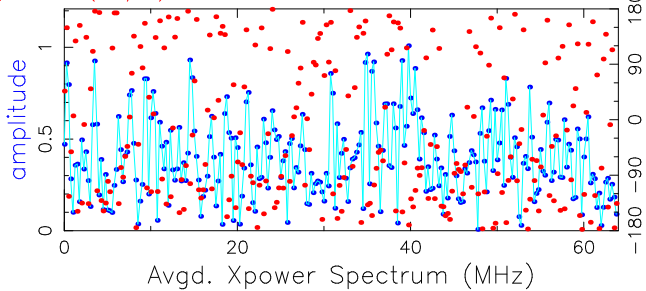


Fringe quality 0

SNR 5.7
 Int time 149.974
 Amp 0.224
 Phase -51.3
 PFD 7.8e-01
 Delays (us)
 SBD -0.900774
 MBD -0.002966
 Fringe rate (Hz)
 -0.777673
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

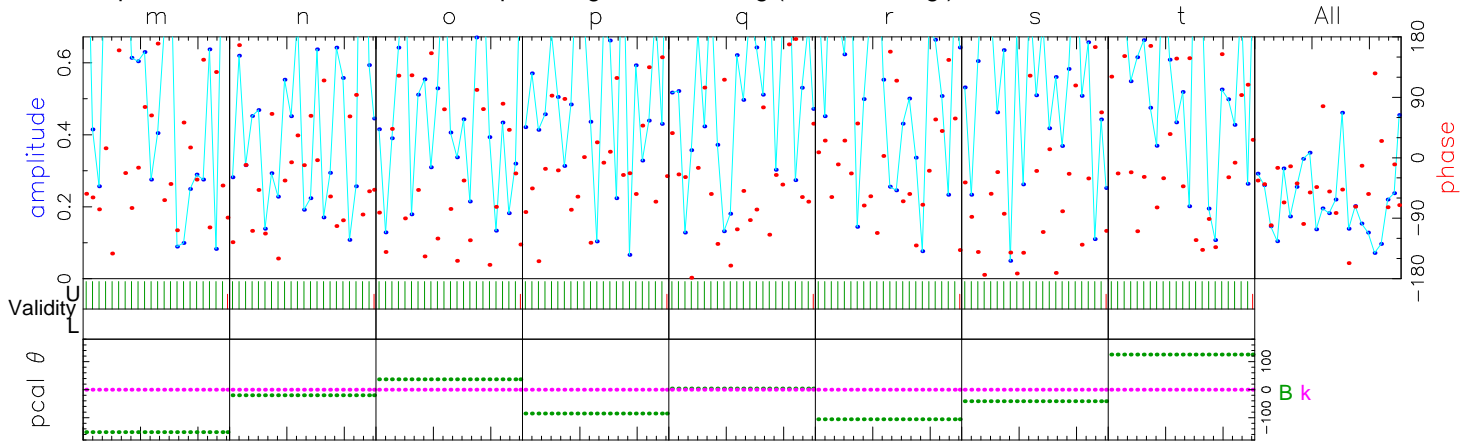


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105518
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-53.6	-56.0	-157.4	-28.4	-70.3	-20.8	-103.5	-61.2	Phase	-51.3
	0.4	0.3	0.0	0.3	0.3	0.4	0.2	0.1	Ampl.	0.2
	26.4	192.3	77.1	358.5	59.9	25.4	453.0	477.6	Sbd box	26.4
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
k	0	0	0	0	0	0	0	0	PC freqs	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:k	-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	
k	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-1.75044347804E+03	Apriori delay (usec)	-1.74954988680E+03	Resid mbdelay (usec)	-2.98625E-03	+/-	1.9E-04
Sband delay (usec)	-1.75045066055E+03	Apriori clock (usec)	-3.5553219E+01	Resid sbdelay (usec)	-9.00774E-01	+/-	1.5E-03
Phase delay (usec)	-1.74954988845E+03	Apriori clockrate (us/s)	-3.4174508E-07	Resid phdelay (usec)	-1.65327E-06	+/-	6.5E-07
Delay rate (us/s)	4.92959273301E-01	Apriori rate (us/s)	4.92968301314E-01	Resid rate (us/s)	-9.02801E-06	+/-	7.5E-09
Total phase (deg)	-140.8	Apriori accel (us/s/s)	3.48043331820E-05	Resid phase (deg)	-51.3	+/-	20.1

ph/seg (deg)	RMS 59.0	Theor. 48.3	Amplitude Search (1024X32)	0.165	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	64.5	84.2	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)	51.5	28.5	Inc. seg. avg.	0.212	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256 t_cohere infinite	dr window (ns/s)	-0.011	0.011
amp/frq (%)	55.1	49.7	Inc. frq. avg.	0.220	Data rate(Mb/s): 2048		ion window (TEC)	0.00	0.00

B: az 4.0 el 30.6 pa -7.6 k: az 336.1 el 36.1 pa 95.2 u,v (fr/asec) -8086.786 8275.364 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bk..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bk.W.74.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

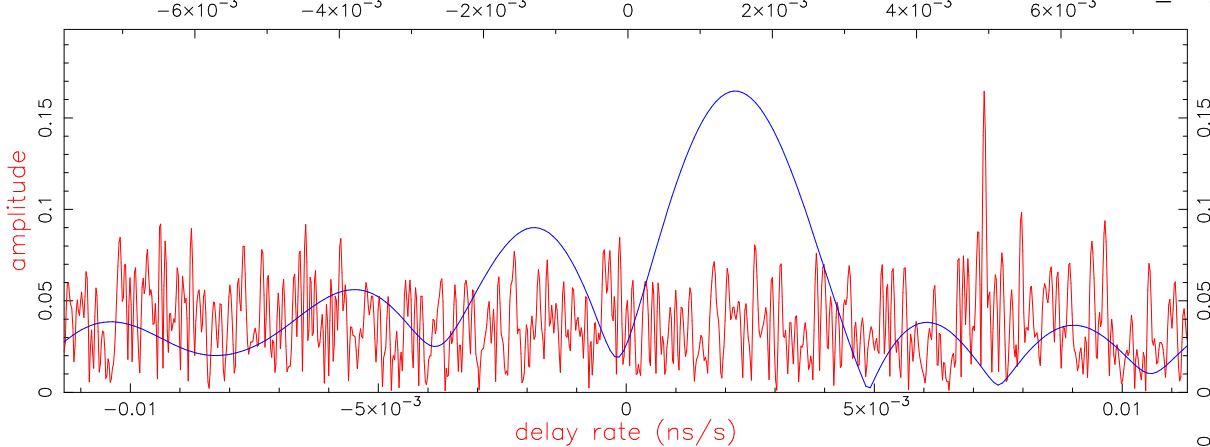
aux01

3C371.3MP15Q, No0901, Bk

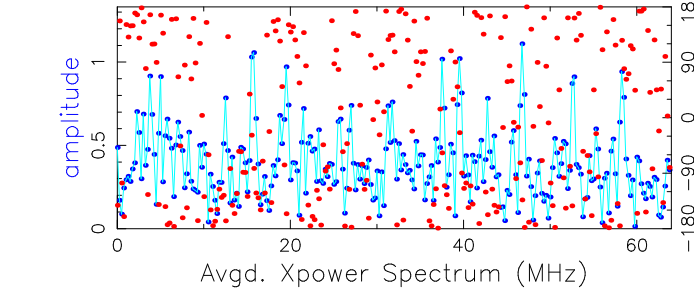
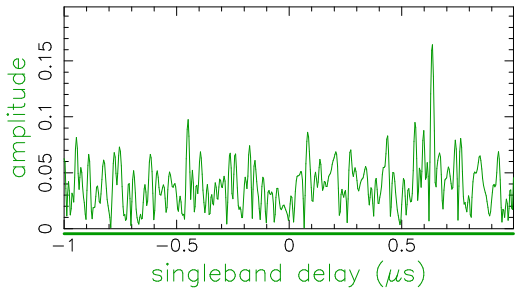
EFLSBERG - VLBA_KP, fgroup W, pol RR

multiband delay (μ s)

Fringe quality 0

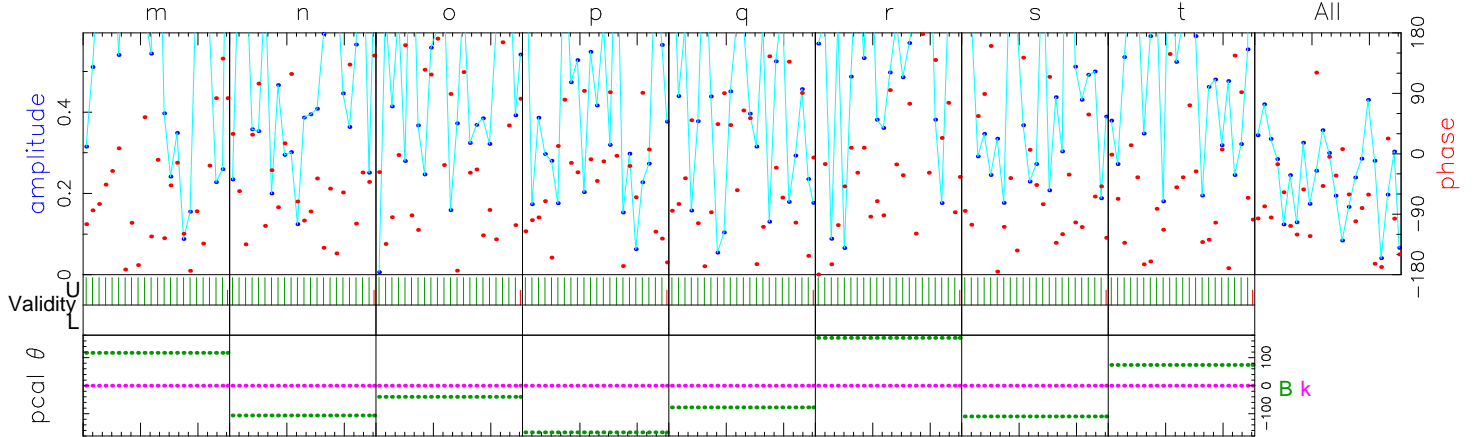


SNR 5.6
Int time 149.974
Amp 0.198
Phase -73.0
PFD 9.4e-01
Delays (us)
SBD 0.635309
MBD 0.001448
Fringe rate (Hz) 0.622261
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512



Exp. c241a
Exper # 1234
Yr:day 2024:109
Start 163000.00
Stop 163230.02
FRT 163115.00
Corr/FF/build
2025:007:141222
2025:041:105519
2024:113:095956
RA & Dec (J2000)
18h06m50.680649s
+69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-68.3	-82.5	-139.7	-42.9	-72.3	-46.7	-79.1	-81.4	Phase	-73.0
	0.3	0.3	0.1	0.2	0.2	0.2	0.3	0.2	Ampl.	0.2
	25.5	96.2	28.1	291.1	305.1	141.8	279.5	300.0	Sbd box	419.6
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
k	0	0	0	0	0	0	0	0	PC freqs	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-1.74890781376E+03	Apriori delay (usec)	-1.74954988680E+03	Resid mbdelay (usec)	1.44803E-03	+/-	1.9E-04
Sband delay (usec)	-1.74891457805E+03	Apriori clock (usec)	-3.5553219E+01	Resid sbdelay (usec)	6.35309E-01	+/-	1.5E-03
Phase delay (usec)	-1.74954988915E+03	Apriori clockrate (us/s)	-3.4174508E-07	Resid phdelay (usec)	-2.35482E-06	+/-	6.6E-07
Delay rate (us/s)	4.92975525144E-01	Apriori rate (us/s)	4.92968301314E-01	Resid rate (us/s)	7.22383E-06	+/-	7.6E-09
Total phase (deg)	-162.6	Apriori accel (us/s/s)	3.48043331820E-05	Resid phase (deg)	-73.0	+/-	20.5

ph/seg (deg)	60.8	Theor.	49.2	Amplitude	0.198 +/- 0.035	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	78.0	Search (1024X32)	0.163	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	32.3	Inc. seg. avg.	0.214	Inc. frq. avg.	0.188	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	24.6	Inc. frq. avg.	0.188			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 4.0 el 30.6 pa -7.6 k: az 336.1 el 36.1 pa 95.2 u,v (fr/asec) -8086.786 8275.364 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bk..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bk.W.85.3MP15Q

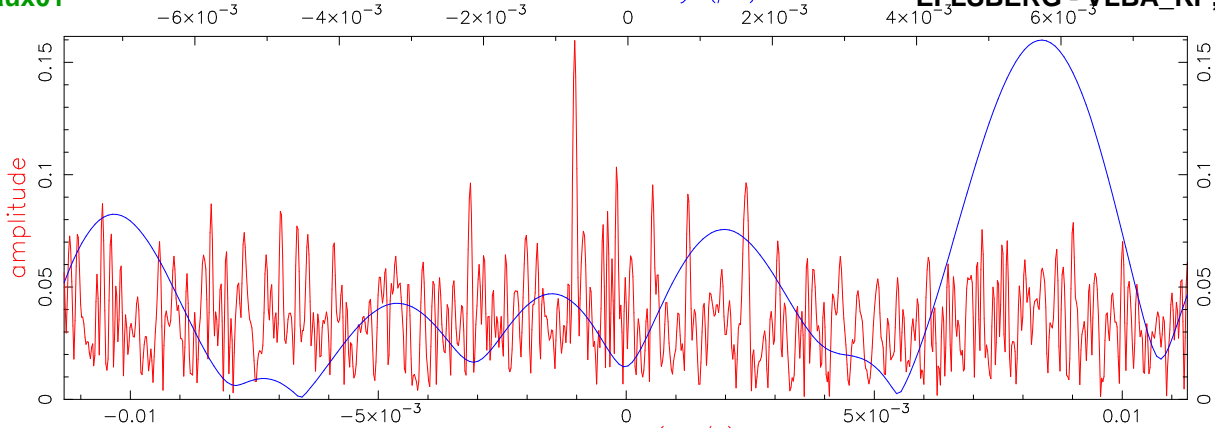
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, Bk

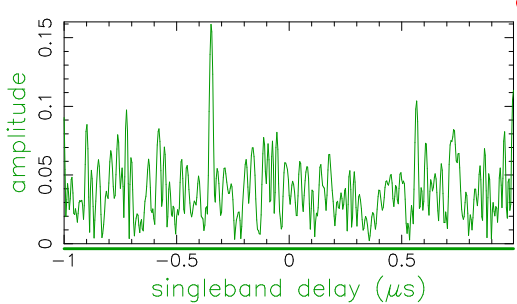
EFLSBERG - VLBA_KP, fgroup W, pol LR

multiband delay (μ s)

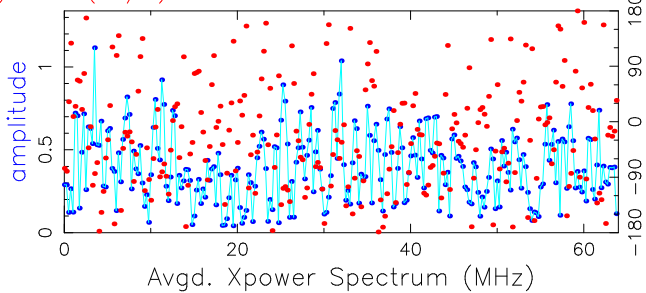


Fringe quality 0

SNR 5.4
 Int time 149.974
 Amp 0.162
 Phase -140.6
 PFD 1.0e+00
 Delays (us)
 SBD -0.346473
 MBD 0.005787
 Fringe rate (Hz)
 -0.089682
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

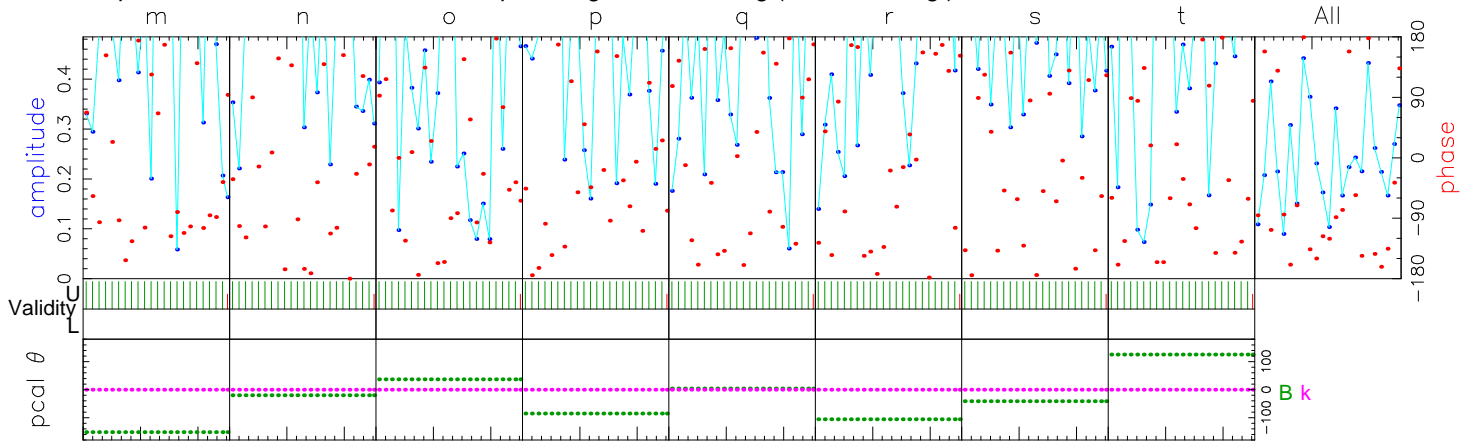


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105523
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-132.0	-152.1	-117.6	-95.5	-160.3	-172.8	-143.3	-125.5	Phase	-140.6
	0.2	0.2	0.1	0.1	0.2	0.3	0.1	0.2	Ampl.	0.2
	254.6	82.5	270.0	104.6	245.5	169.8	52.8	134.5	Sbd box	168.3
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
k	0	0	0	0	0	0	0	0	PC freqs	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:k	-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	
k	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-1.74990347446E+03	Apriori delay (usec)	-1.74954988680E+03	Resid mbdelay (usec)	5.78734E-03	+/-	2.0E-04
Sband delay (usec)	-1.74989636030E+03	Apriori clock (usec)	-3.5553219E+01	Resid sbdelay (usec)	-3.46473E-01	+/-	1.6E-03
Phase delay (usec)	-1.74954989133E+03	Apriori clockrate (us/s)	-3.4174508E-07	Resid phdelay (usec)	-4.53408E-06	+/-	6.9E-07
Delay rate (us/s)	4.92967260191E-01	Apriori rate (us/s)	4.92968301314E-01	Resid rate (us/s)	-1.04112E-06	+/-	7.9E-09
Total phase (deg)	-230.2	Apriori accel (us/s/s)	3.48043331820E-05	Resid phase (deg)	-140.6	+/-	21.3

ph/seg (deg)	52.3	Theor.	51.0	Amplitude	0.162 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	80.8	Search (1024X32)	0.159	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	27.2	Inc. seg. avg.	0.176	Inc. frq. avg.	0.153	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	34.8	Inc. frq. avg.	0.153	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
									ion window (TEC)	0.00 0.00

B: az 4.0 el 30.6 pa -7.6 k: az 336.1 el 36.1 pa 95.2 u,v (fr/asec) -8086.786 8275.364 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bk...3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bk.W.90.3MP15Q

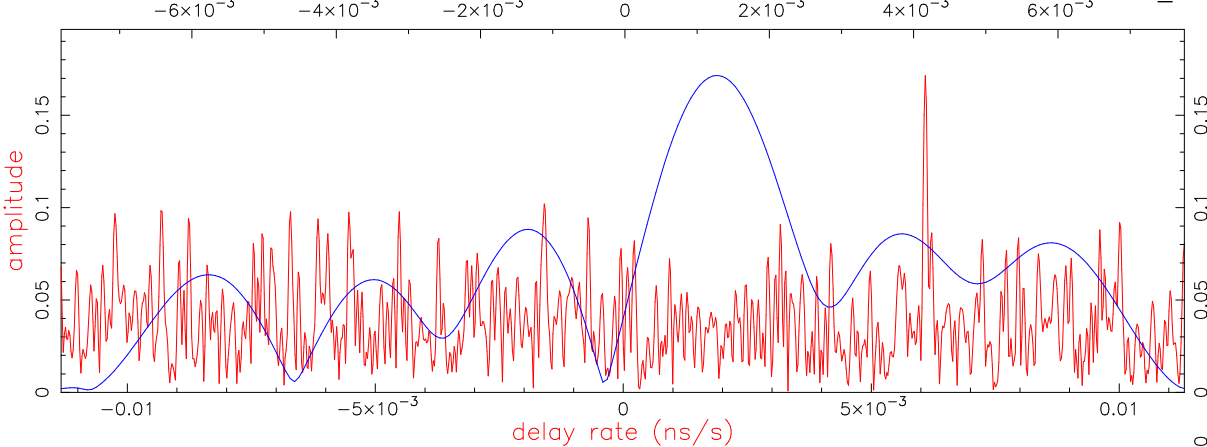
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, BI

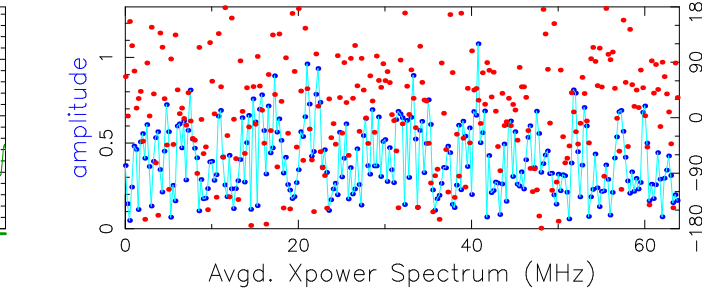
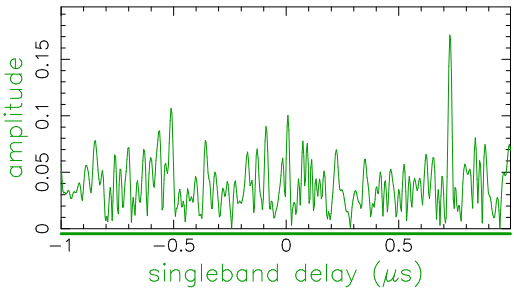
EFLSBERG - VLBA_LA, fgroup W, pol LR

multiband delay (μ s)



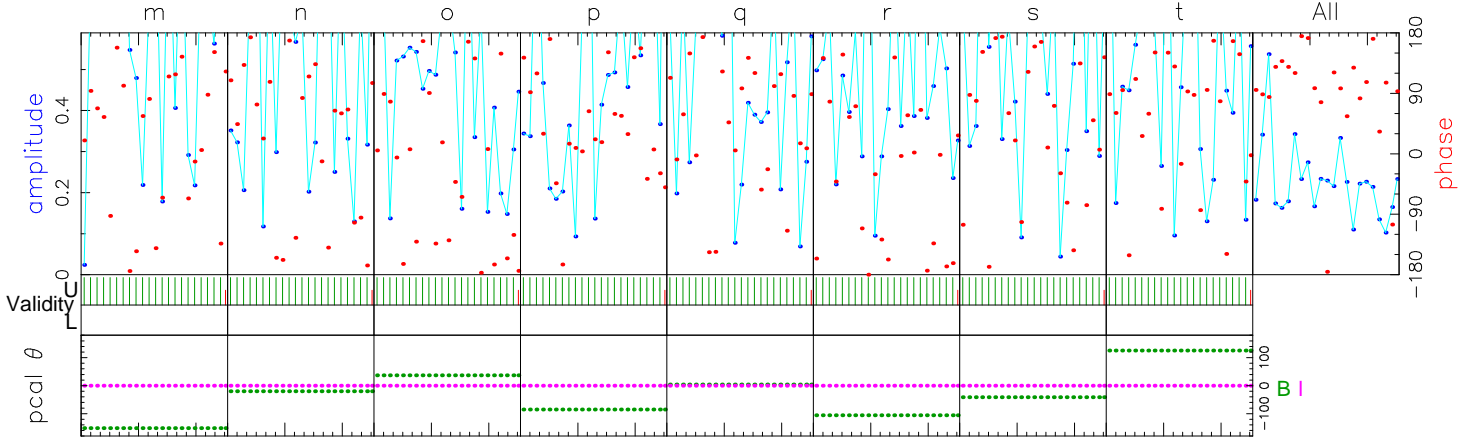
Fringe quality 0

SNR 5.8
 Int time 149.974
 Amp 0.196
 Phase 112.5
 PFD 5.1e-01
 Delays (us)
 SBD 0.728100
 MBD 0.001309
 Fringe rate (Hz) 0.524887
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105530
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
B	0	0	0	0	0	0	0	0		
I	0	0	0	0	0	0	0	0		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:I	-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		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	-2.21901267891E+03	Apriori delay (usec)	-2.21974836304E+03	Resid mbdelay (usec)	1.30913E-03	+/-	1.9E-04
Sband delay (usec)	-2.21902026304E+03	Apriori clock (usec)	-2.7092745E+01	Resid sbdelay (usec)	7.28100E-01	+/-	1.5E-03
Phase delay (usec)	-2.21974835941E+03	Apriori clockrate (us/s)	4.4462047E-08	Resid phdelay (usec)	3.62936E-06	+/-	6.3E-07
Delay rate (us/s)	4.85039425252E-01	Apriori rate (us/s)	4.85033331834E-01	Resid rate (us/s)	6.09342E-06	+/-	7.3E-09
Total phase (deg)	-244.6	Apriori accel (us/s/s)	3.14927186782E-05	Resid phase (deg)	112.5	+/-	19.7

ph/seg (deg)	48.0	Theor.	47.2	Amplitude	0.196 +/- 0.034	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	61.5	Search (1024X32)	0.167	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	42.4	Inc. seg. avg.	0.192	Inc. seg. avg.	0.192	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	40.1	Inc. frq. avg.	0.200	Inc. frq. avg.	0.200	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 4.0 el 30.6 pa -7.6 I: az 334.9 el 37.8 pa 88.1 u,v (fr/asec) -7964.937 7397.141 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901/BI..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901/BI.W.110.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

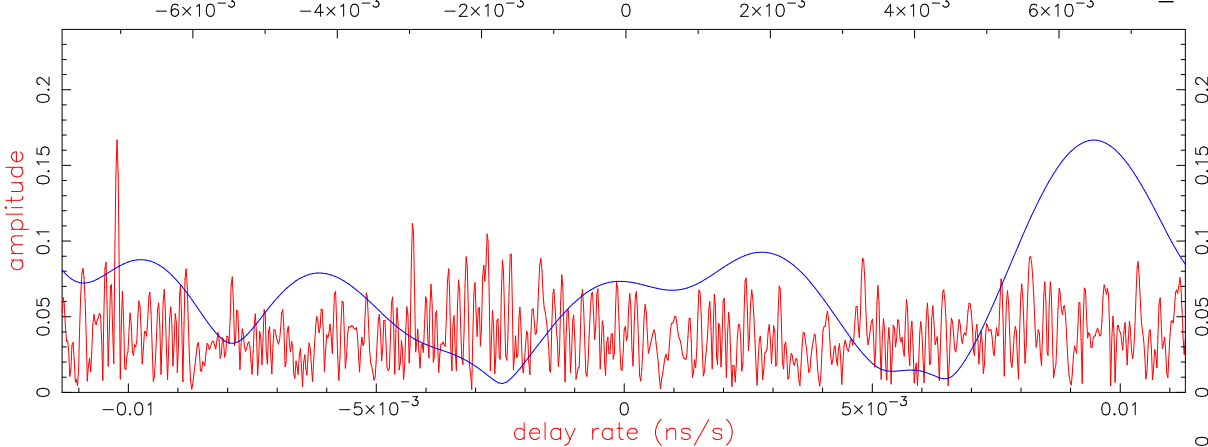
aux01

3C371.3MP15Q, No0901, BI

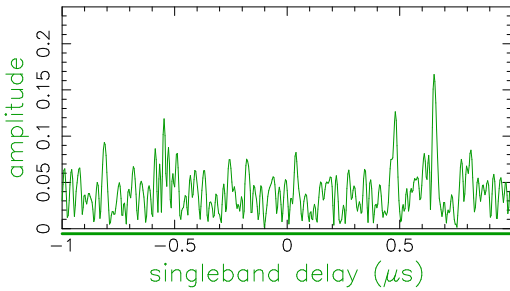
EFLSBERG - VLBA_LA, fgroup W, pol RL

multiband delay (μ s)

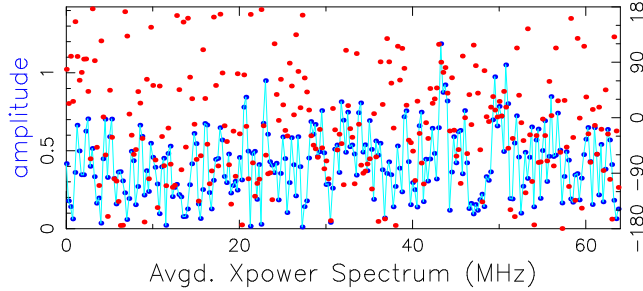
Fringe quality 0



SNR 5.6
 Int time 149.974
 Amp 0.240
 Phase -126.2
 PFD 9.3e-01
 Delays (us)
 SBD 0.652858
 MBD 0.006497
 Fringe rate (Hz)
 -0.883187
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

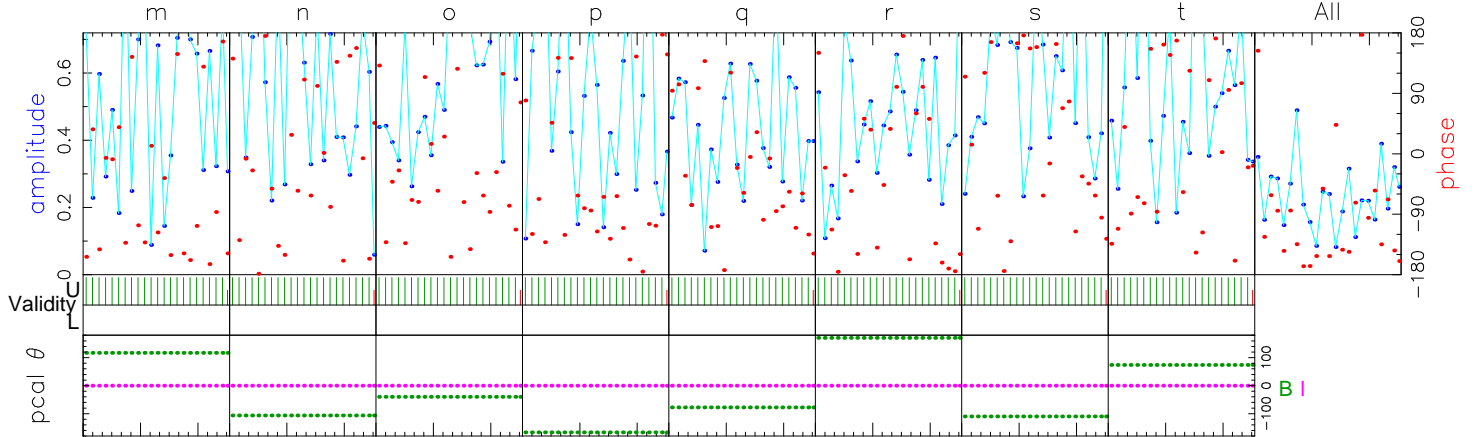


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105532
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-143.5	-152.8	-80.8	-122.0	-67.5	170.8	-151.3	-135.1	Phase	-126.2
	0.5	0.2	0.3	0.5	0.2	0.1	0.2	0.2	Ampl.	0.2
	425.1	454.6	108.5	423.6	390.1	270.3	113.0	302.8	Sbd box	424.1
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
I	0	0	0	0	0	0	0	0	PC freqs	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0	ManI PC	
I	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	
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-2.21910124071E+03	Apriori delay (usec)	-2.21974836304E+03	Resid mbdelay (usec)	6.49732E-03	+/-	1.9E-04
Sband delay (usec)	-2.21909550504E+03	Apriori clock (usec)	-2.7092745E+01	Resid sbdelay (usec)	6.52858E-01	+/-	1.5E-03
Phase delay (usec)	-2.21974836711E+03	Apriori clockrate (us/s)	4.4462047E-08	Resid phdelay (usec)	-4.06879E-06	+/-	6.6E-07
Delay rate (us/s)	4.85023078903E-01	Apriori rate (us/s)	4.85033331834E-01	Resid rate (us/s)	-1.02529E-05	+/-	7.6E-09
Total phase (deg)		Apriori accel (us/s/s)	3.14927186782E-05	Resid phase (deg)	-126.2	+/-	20.5

ph/seg (deg)	RMS 56.0	Theor. 49.1	Amplitude Search (1024X32)	0.165	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	70.9	85.8	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)	43.2	29.0	Inc. seg. avg.	0.246	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256 t_cohere infinite	dr window (ns/s)	-0.011	0.011
amp/frq (%)	65.8	50.6	Inc. frq. avg.	0.244	Data rate(Mb/s): 2048		ion window (TEC)	0.00	0.00

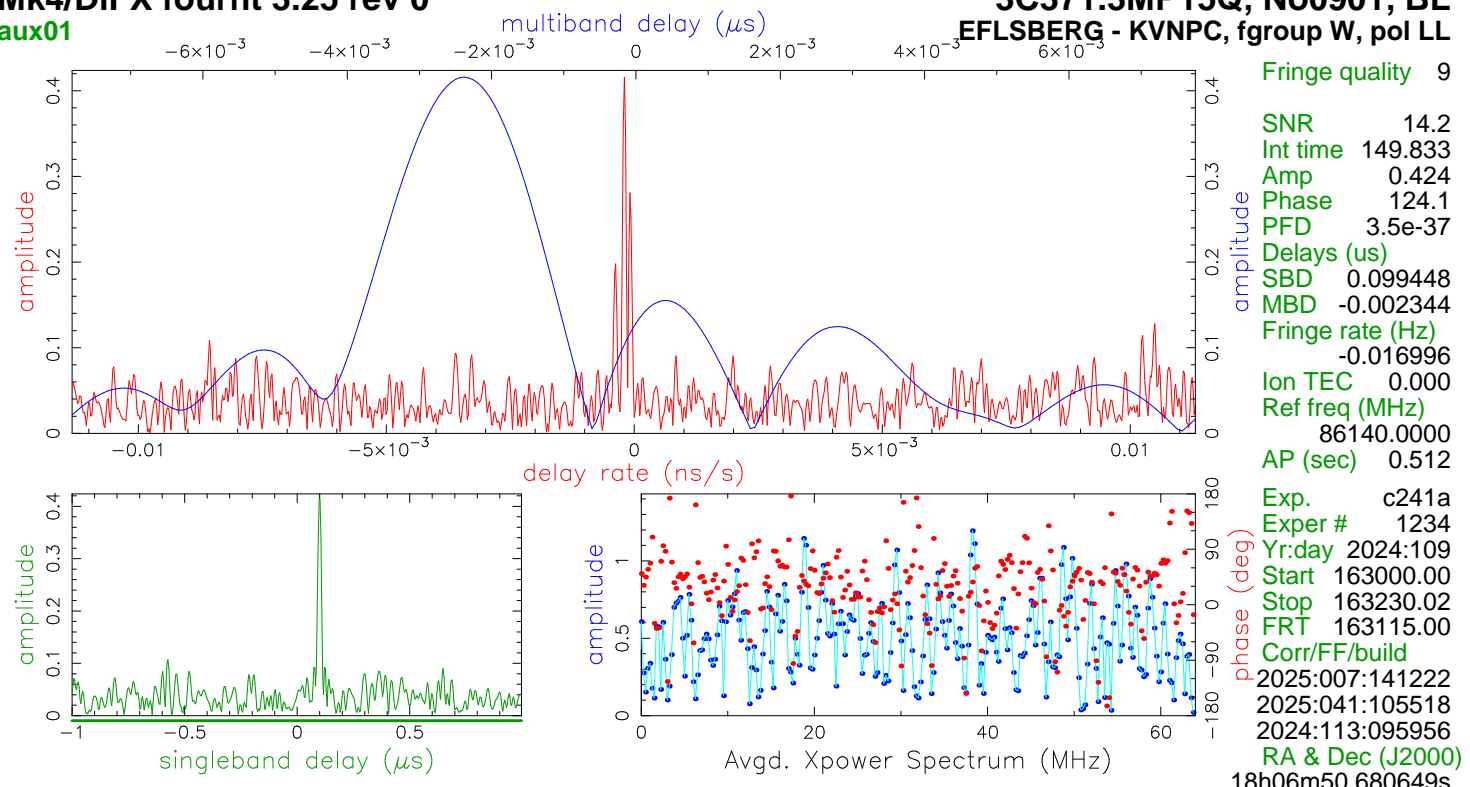
B: az 4.0 el 30.6 pa -7.6 I: az 334.9 el 37.8 pa 88.1 u,v (fr/asec) -7964.937 7397.141 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901/BI..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901/BI.W.116.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, BL

EFLSBERG - KVNPC, fgroup W, pol LL



Fringe quality 9

SNR 14.2

Int time 149.833

Amp 0.424

Phase 124.1

PFD 3.5e-37

Delays (us)

SBD 0.099448

MBD -0.002344

Fringe rate (Hz)

-0.016996

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c241a

Exper # 1234

Yr:day 2024:109

Start 163000.00

Stop 163230.02

FRT 163115.00

Corr/FF/build

2025:007:141222

2025:041:105518

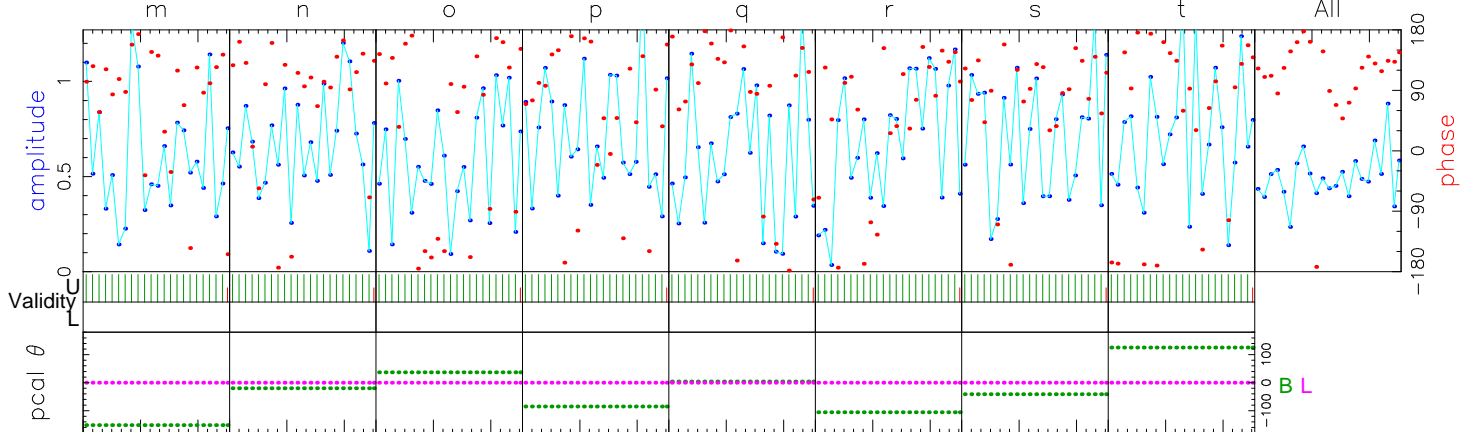
2024:113:095956

RA & Dec (J2000)

18h06m50.680649s

+69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	117.1	123.9	148.4	119.6	137.9	112.5	108.1	130.3	Phase	124.1
	0.4	0.5	0.3	0.3	0.5	0.4	0.5	0.5	Ampl.	0.4
	281.1	282.0	283.4	283.0	283.4	282.7	282.6	282.4	Sbd box	282.5
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	60000	0	0	0	4000	0	PC freqs	
B:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:L	-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	
L	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
L	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD) -5.25766089070E+03 Apriori delay (usec) -5.25776792149E+03 Resid mbdelay (usec) -2.34421E-03 +/- 7.7E-05

Sband delay (usec) -5.25766847349E+03 Apriori clock (usec) -1.0032734E+01 Resid sbdelay (usec) 9.94480E-02 +/- 6.1E-04

Phase delay (usec) -5.25776791749E+03 Apriori clockrate (us/s) 7.2519998E-06 Resid phdelay (usec) 4.00274E-06 +/- 2.6E-07

Delay rate (us/s) -2.55355121000E-01 Apriori rate (us/s) -2.55354923689E-01 Resid rate (us/s) -1.97311E-07 +/- 3.0E-09

Total phase (deg) -148.4 Apriori accel (us/s/s) 4.51459112973E-05 Resid phase (deg) 124.1 +/- 8.1

ph/seg (deg) 34.9 19.4 Search (1024X32) 0.414 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 35.2 33.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 14.6 11.4 Inc. seg. avg. 0.473 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 17.0 19.9 Inc. frq. avg. 0.417 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011

B: az 4.0 el 30.6 pa -7.6 L: az 23.1 el 48.9 pa -116.3 u,v (fr/asec) 4361.914 10094.409 simultaneous interpolator

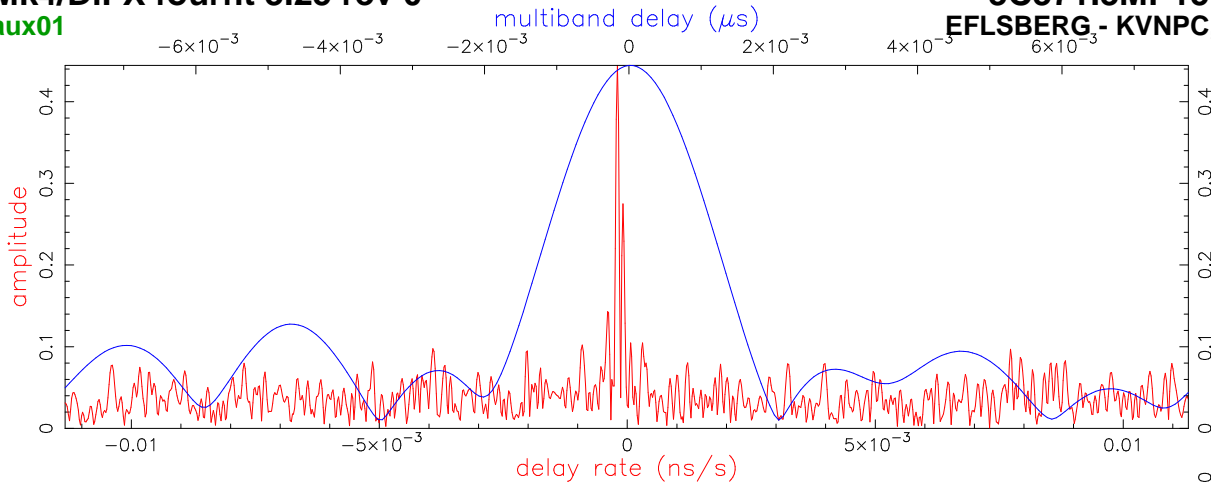
Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//BL...3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//BL.W.73.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

aux01

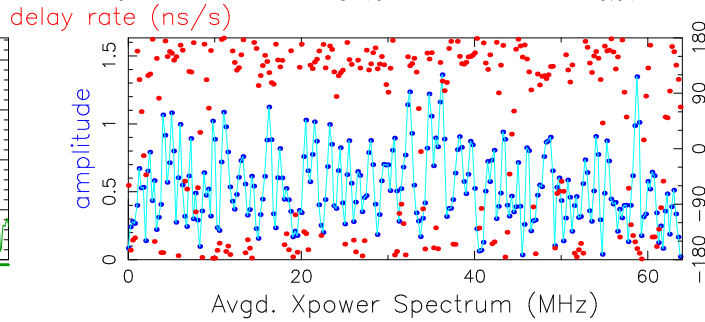
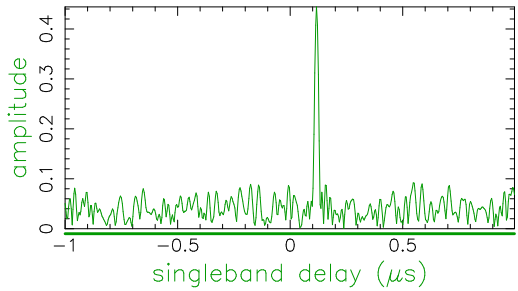
3C371.3MP15Q, No0901, BL

EFLSBERG₃- KVNPC, fgroup W, pol RR



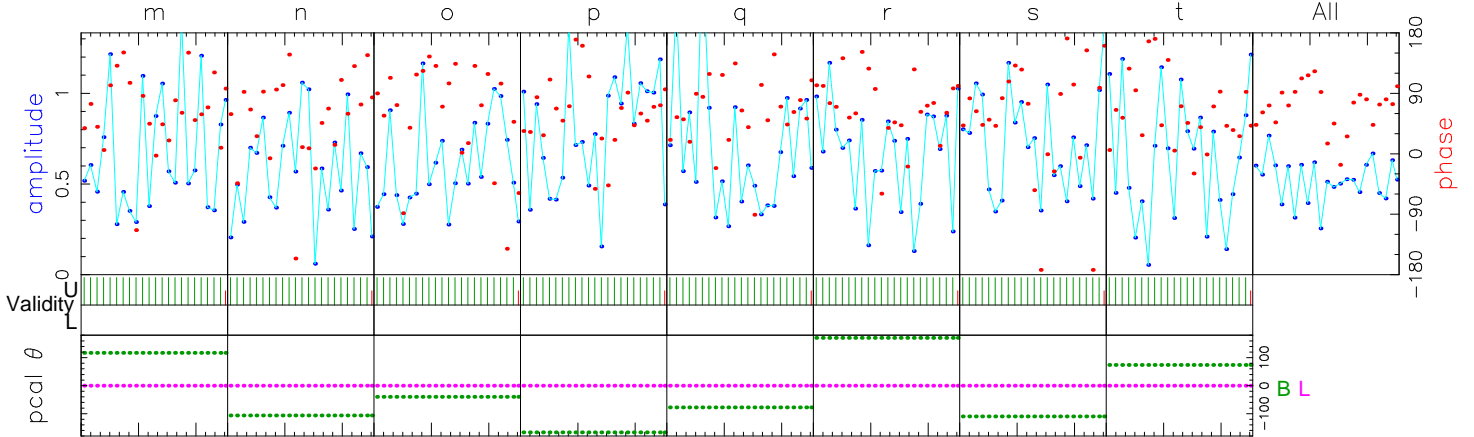
Fringe quality 9

SNR 14.9
 Int time 149.833
 Amp 0.444
 Phase 68.8
 PFD 1.5e-41
 Delays (us)
 SBD 0.117207
 MBD 0.000021
 Fringe rate (Hz)
 -0.016950
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105519
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	62.4	63.1	95.7	61.1	68.3	71.8	84.1	54.6	Phase	68.8
	0.5	0.3	0.3	0.6	0.5	0.5	0.4	0.5	Ampl.	0.4
	285.2	286.8	288.0	287.5	287.2	286.6	287.3	286.7	Sbd box	287.0
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	60000	0	0	0	4000	0	PC freqs	
B:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:L	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	
L	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
L	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-5.25765852576E+03	Apriori delay (usec)	-5.25776792149E+03	Resid mbdelay (usec)	2.07299E-05	+/-	7.3E-05
Sband delay (usec)	-5.25765071424E+03	Apriori clock (usec)	-1.0032734E+01	Resid sbdelay (usec)	1.17207E-01	+/-	5.8E-04
Phase delay (usec)	-5.25776791927E+03	Apriori clockrate (us/s)	7.2519998E-06	Resid phdelay (usec)	2.21855E-06	+/-	2.5E-07
Delay rate (us/s)	-2.55355120460E-01	Apriori rate (us/s)	-2.55354923689E-01	Resid rate (us/s)	-1.96771E-07	+/-	2.9E-09
Total phase (deg)	-203.7	Apriori accel (us/s/s)	4.51459112973E-05	Resid phase (deg)	68.8	+/-	7.7

ph/seg (deg)	RMS 32.9	Theor. 18.5	Amplitude Search (1024X32)	0.444 +/- 0.030	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	31.5	32.2	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	14.7	10.9	Inc. seg. avg.	0.496	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	17.9	19.0	Inc. frq. avg.	0.446	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	dr window (ns/s)	-0.011	0.011
					Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 4.0 el 30.6 pa -7.6 L: az 23.1 el 48.9 pa -116.3 u,v (fr/asec) 4361.914 10094.409 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//BL...3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//BL.W.84.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

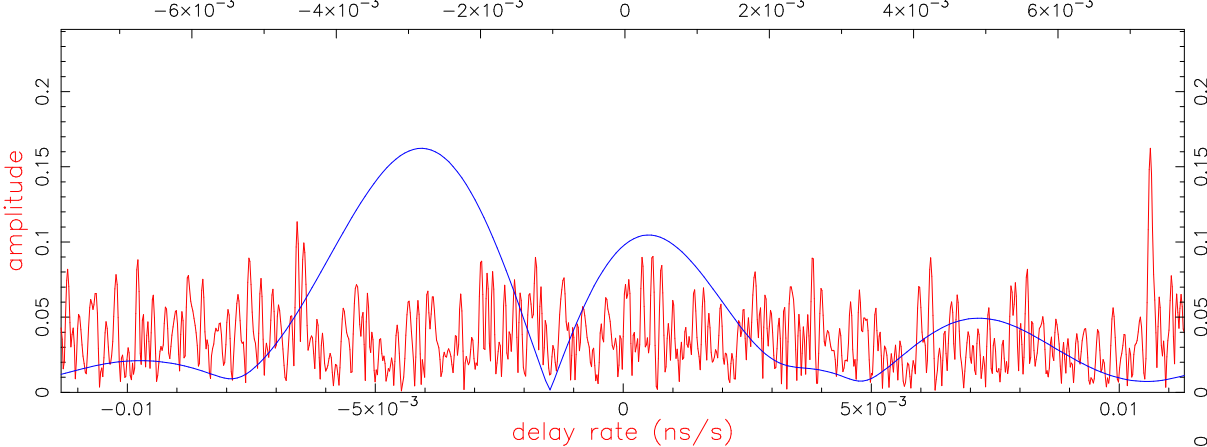
aux01

3C371.3MP15Q, No0901, BL

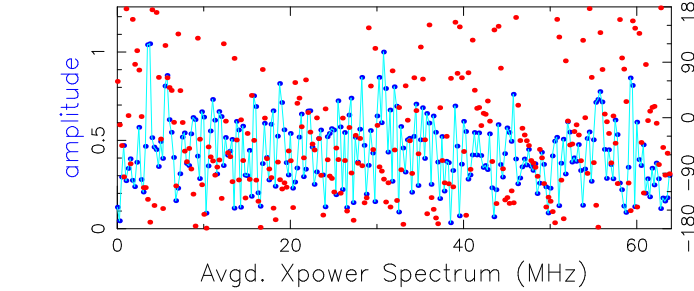
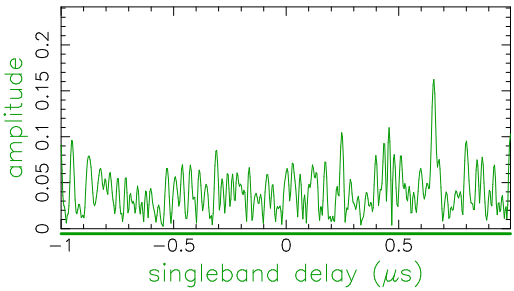
EFLSBERG - KVNPC, fgroup W, pol LR

multiband delay (μ s)

Fringe quality 0

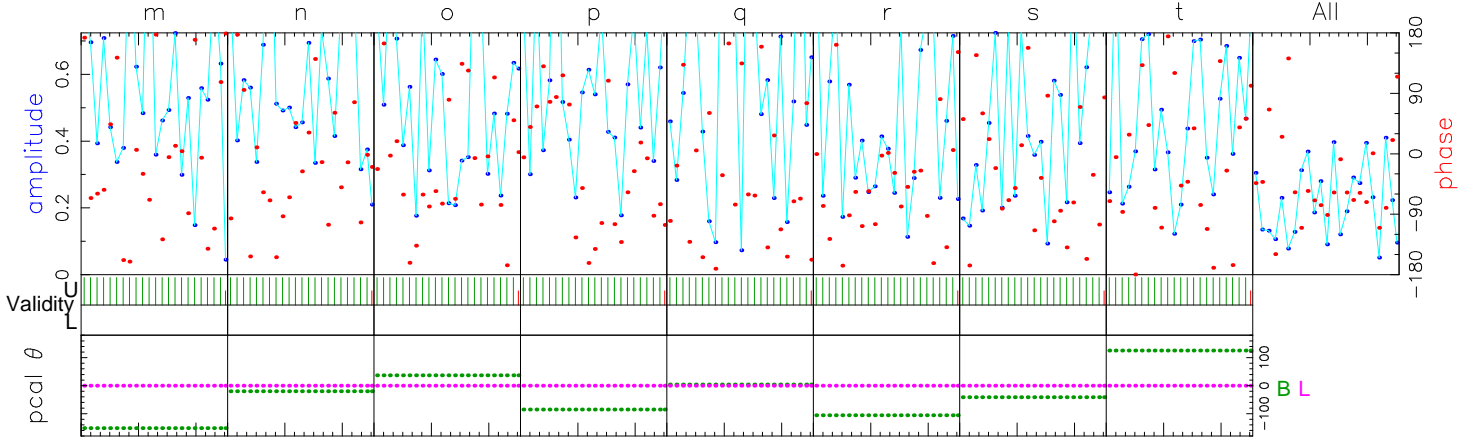


SNR 5.4
 Int time 149.833
 Amp 0.241
 Phase -56.6
 PFD 1.0e+00
 Delays (us)
 SBD 0.655377
 MBD -0.002833
 Fringe rate (Hz)
 0.917671
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105523
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-81.5	-41.2	-34.5	-2.2	-88.3	-72.1	-60.3	1.3		-56.6
	0.3	0.3	0.3	0.1	0.4	0.3	0.3	0.1		0.2
	66.2	459.4	105.5	14.7	235.0	480.2	40.0	363.6		424.8
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
B	0	0	0	0	0	0	0	0		
L	0	0	60000	0	0	0	4000	0		
B:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:L	-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		
L	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
L	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
										Tracks
Group delay (usec) (SBD)	-5.25711450415E+03		Apriori delay (usec)		-5.25776792149E+03		Resid mbdelay (usec)		-2.83266E-03	+/- 2.0E-04
Sband delay (usec)	-5.25711254449E+03		Apriori clock (usec)		-1.0032734E+01		Resid sbdelay (usec)		6.55377E-01	+/- 1.6E-03
Phase delay (usec)	-5.25776792331E+03		Apriori clockrate (us/s)		7.2519998E-06		Resid phdelay (usec)		-1.82552E-06	+/- 6.8E-07
Delay rate (us/s)	-2.55344270443E-01		Apriori rate (us/s)		-2.55354923689E-01		Resid rate (us/s)		1.06532E-05	+/- 7.8E-09
Total phase (deg)			Apriori accel (us/s/s)		4.51459112973E-05		Resid phase (deg)		-56.6	+/- 21.0

ph/seg (deg) RMS Theor. Amplitude 0.241 +/- 0.044 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 63.9 50.4 Search (1024X32) 0.159 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 76.2 88.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 38.6 29.7 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 (%) 39.1 51.9 Inc. frq. avg. 0.239 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 B: az 4.0 el 30.6 pa -7.6 L: az 23.1 el 48.9 pa -116.3 u,v (fr/asec) 4361.914 10094.409 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//BL...3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//BL.W.89.3MP15Q

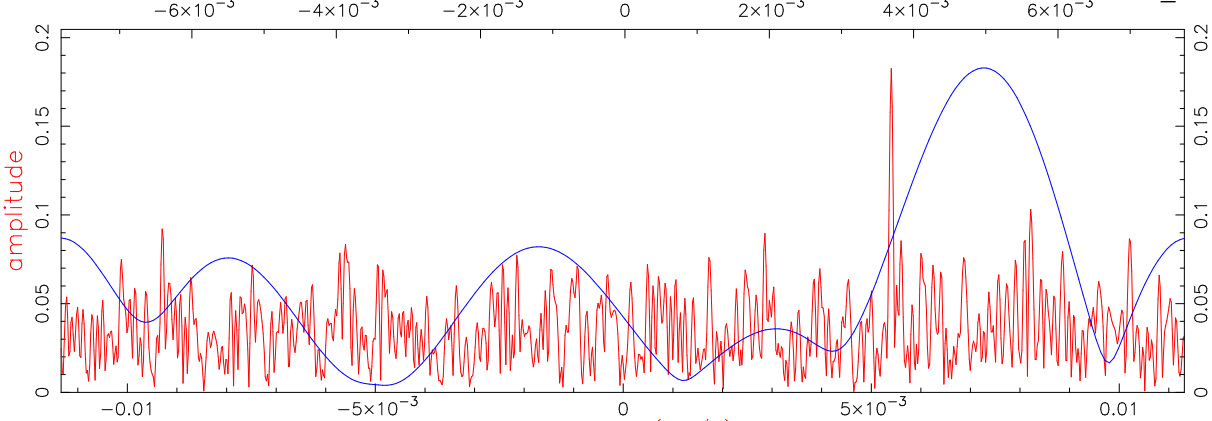
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, BI

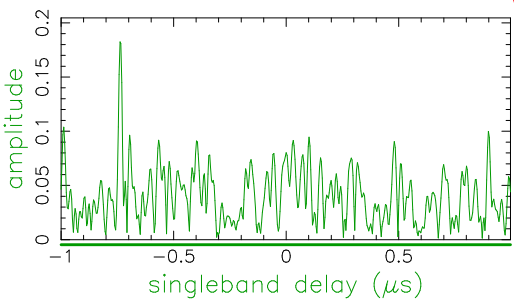
EFLSBERG - VLBA_LA, fgroup W, pol LL

multiband delay (μ s)

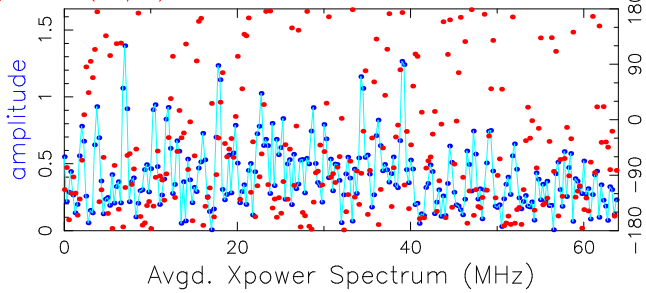


Fringe quality 0

SNR 6.2
 Int time 149.974
 Amp 0.205
 Phase -19.3
 PFD 6.0e-02
 Delays (us)
 SBD -0.736510
 MBD 0.005047
 Fringe rate (Hz)
 0.465253
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

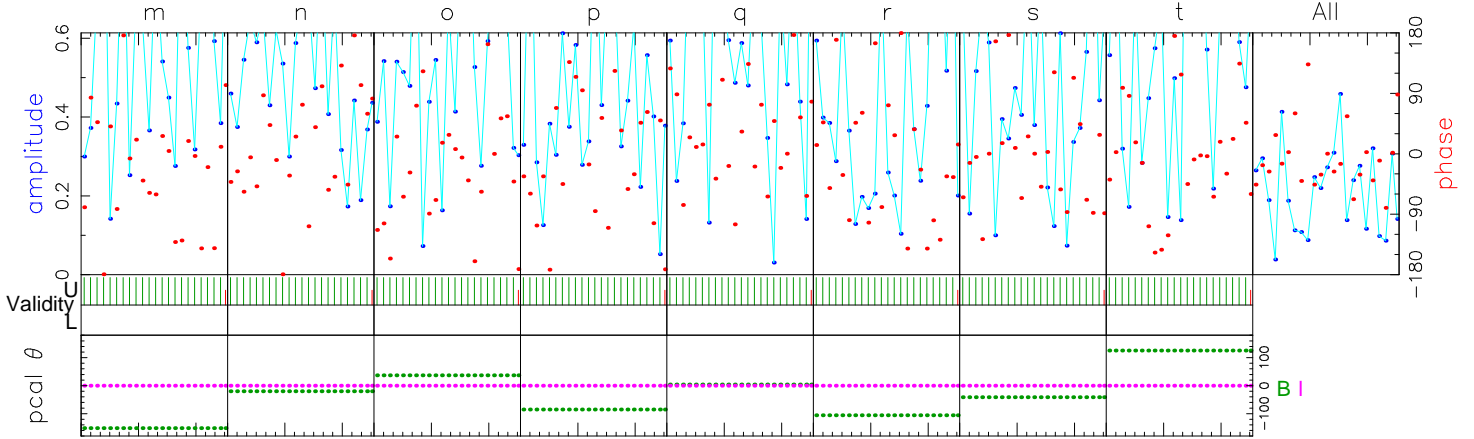


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105523
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
B	0	0	0	0	0	0	0	0		
I	0	0	0	0	0	0	0	0		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:I	-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		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	-2.22047769081E+03	Apriori delay (usec)	-2.21974836304E+03	Resid mbdelay (usec)	5.04723E-03	+/-	1.7E-04
Sband delay (usec)	-2.22048487254E+03	Apriori clock (usec)	-2.7092745E+01	Resid sbdelay (usec)	-7.36510E-01	+/-	1.4E-03
Phase delay (usec)	-2.21974836366E+03	Apriori clockrate (us/s)	4.4462047E-08	Resid phdelay (usec)	-6.22817E-07	+/-	5.9E-07
Delay rate (us/s)	4.85038732955E-01	Apriori rate (us/s)	4.85033331834E-01	Resid rate (us/s)	5.40112E-06	+/-	6.8E-09
Total phase (deg)		Apriori accel (us/s/s)	3.14927186782E-05	Resid phase (deg)	-19.3	+/-	18.4

ph/seg (deg)	49.1	Theor.	44.1	Amplitude	0.205 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	60.4		77.0	Search (1024X32)	0.180	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	33.0		26.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	36.9		45.4	Inc. seg. avg.	0.183	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.205	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 4.0 el 30.6 pa -7.6 I: az 334.9 el 37.8 pa 88.1 u, v (fr/asec) -7964.937 7397.141 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901/BI..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901/BI.W.91.3MP15Q

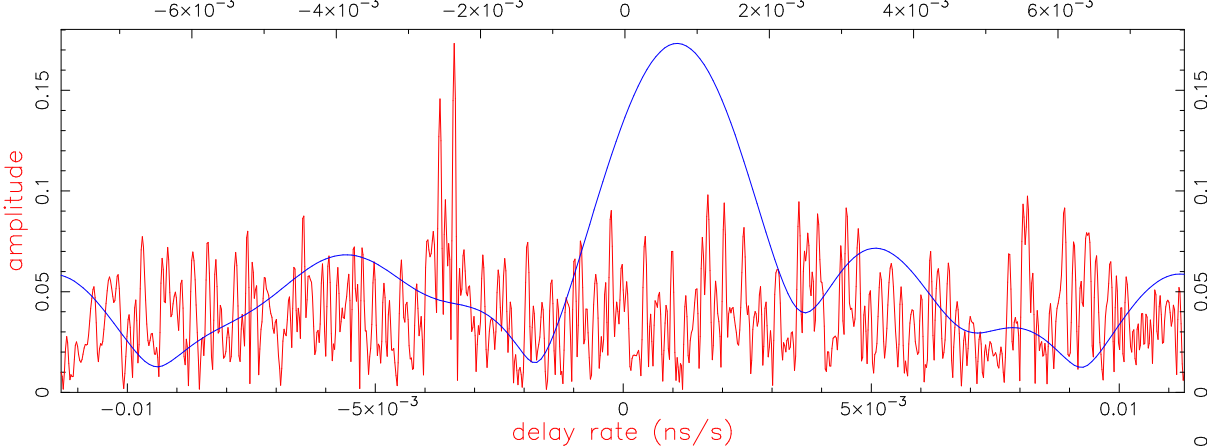
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, BL

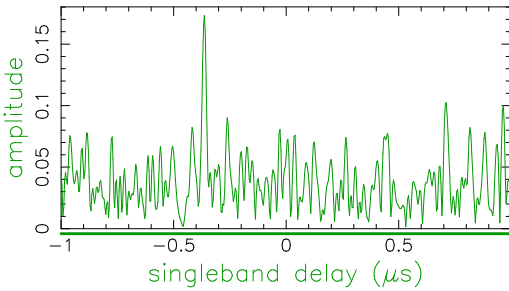
EFLSBERG - KVNPC, fgroup W, pol RL

multiband delay (μ s)

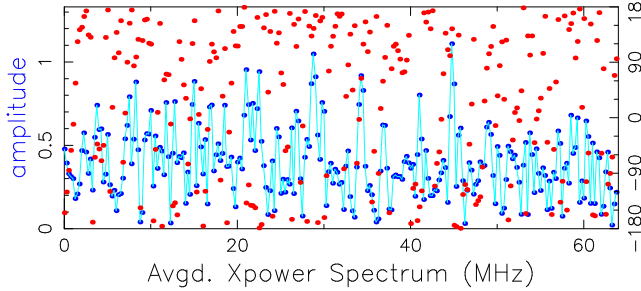


Fringe quality 0

SNR 5.8
 Int time 149.833
 Amp 0.180
 Phase -90.2
 PFD 5.4e-01
 Delays (us)
 SBD -0.363903
 MBD 0.000712
 Fringe rate (Hz)
 -0.294818
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

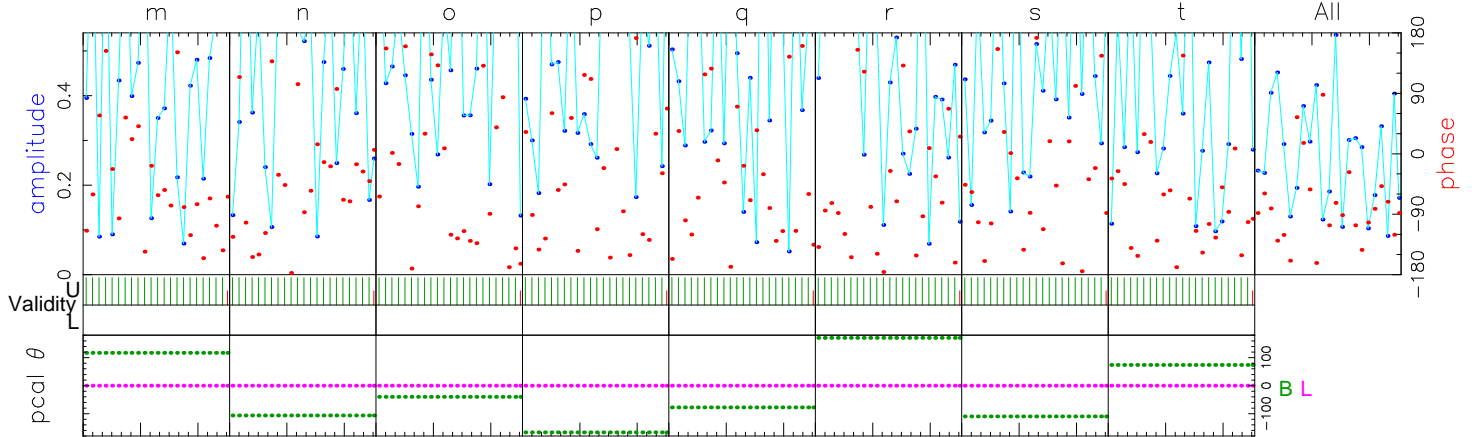


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105525
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	-68.8	-147.4	-59.9	-95.2	-103.7	-82.8	-75.5	Phase	-90.2
	0.2	0.2	0.1	0.1	0.3	0.3	0.1	0.2	Ampl.	0.2
	176.8	346.6	432.5	496.0	306.9	163.4	24.8	505.3	Sbd box	163.8
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	60000	0	0	0	4000	0	PC freqs	
B:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:L	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	
L	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
L	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-5.25812658408E+03	Apriori delay (usec)	-5.25776792149E+03	Resid mbdelay (usec)	7.12410E-04	+/-	1.9E-04
Sband delay (usec)	-5.25813182449E+03	Apriori clock (usec)	-1.0032734E+01	Resid sbdelay (usec)	-3.63903E-01	+/-	1.5E-03
Phase delay (usec)	-5.25776792440E+03	Apriori clockrate (us/s)	7.2519998E-06	Resid phdelay (usec)	-2.90733E-06	+/-	6.4E-07
Delay rate (us/s)	-2.55358346229E-01	Apriori rate (us/s)	-2.55354923689E-01	Resid rate (us/s)	-3.42254E-06	+/-	7.3E-09
Total phase (deg)	-2.7	Apriori accel (us/s/s)	4.51459112973E-05	Resid phase (deg)	-90.2	+/-	19.7

ph/seg (deg)	63.1	Theor.	47.3	Amplitude	0.180 +/- 0.031	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	90.0	Search (1024X32)	0.167	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	29.2	Inc. seg. avg.	0.209	Inc. frq. avg.	0.171	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	44.5	Inc. frq. avg.	0.171	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 4.0 el 30.6 pa -7.6		L: az 23.1 el 48.9 pa -116.3		u, v (fr/asec)	4361.914 10094.409	ion window (TEC)	0.00 0.00	simultaneous interpolator		

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//BL...3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//BL.W.95.3MP15Q

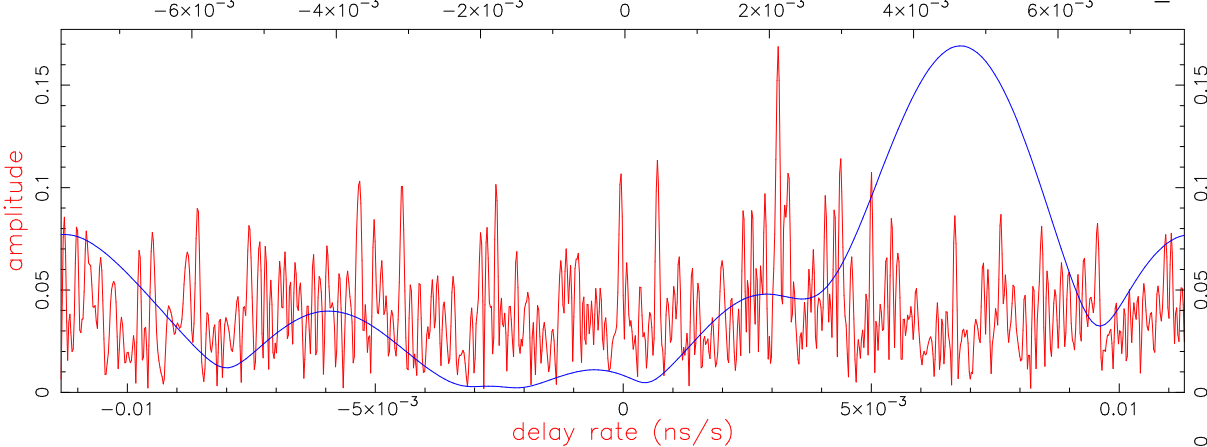
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, BI

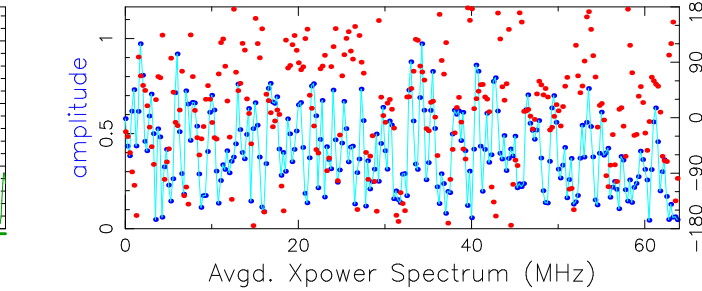
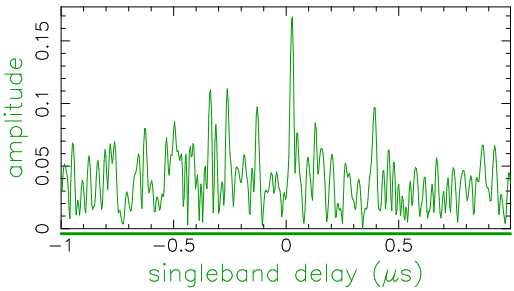
EFLSBERG - VLBA_LA, fgroup W, pol RR

multiband delay (μ s)



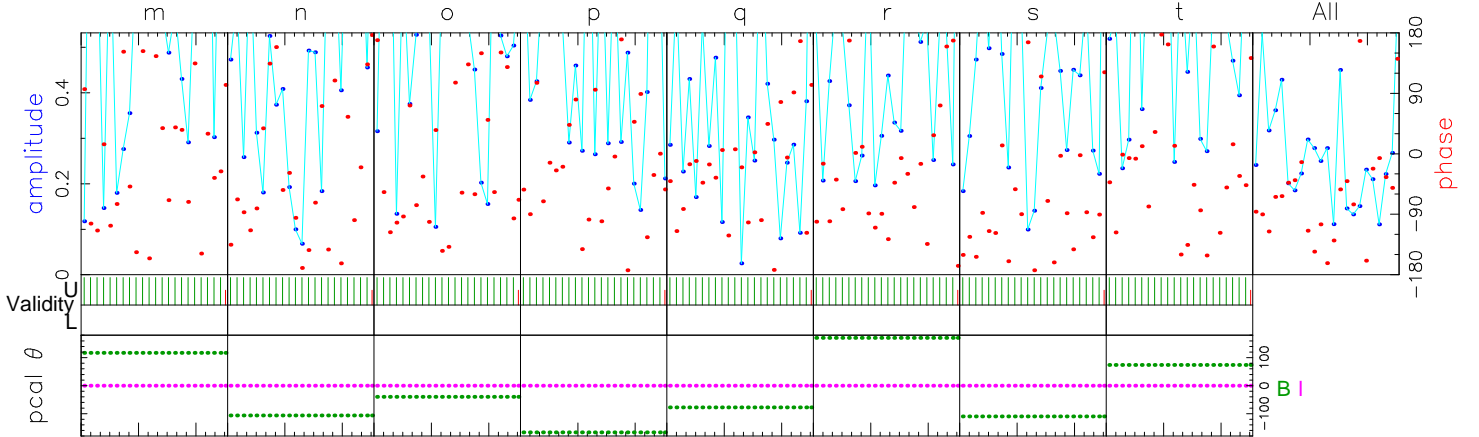
Fringe quality 0

SNR 5.8
 Int time 149.974
 Amp 0.177
 Phase -83.2
 PFD 6.6e-01
 Delays (us)
 SBD 0.025690
 MBD 0.004573
 Fringe rate (Hz)
 0.268549
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105528
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-104.8	-119.6	-97.0	-43.3	-55.9	-79.4	-103.4	-81.8	Phase	-83.2
	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.2	Ampl.	0.2
	169.8	222.7	265.2	282.1	38.2	140.3	443.4	417.2	Sbd box	263.6
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
I	0	0	0	0	0	0	0	0	PC freqs	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:I	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	
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD) -2.21972816531E+03 Apriori delay (usec) -2.21974836304E+03 Resid mbdelay (usec) 4.57273E-03 +/- 1.9E-04
 Sband delay (usec) -2.21972267329E+03 Apriori clock (usec) -2.7092745E+01 Resid sbdelay (usec) 2.56898E-02 +/- 1.5E-03
 Phase delay (usec) -2.21974836572E+03 Apriori clockrate (us/s) 4.4462047E-08 Resid phdelay (usec) -2.68224E-06 +/- 6.4E-07
 Delay rate (us/s) 4.85036449420E-01 Apriori rate (us/s) 4.85033331834E-01 Resid rate (us/s) 3.11759E-06 +/- 7.4E-09
 Total phase (deg) -80.3 Apriori accel (us/s/s) 3.14927186782E-05 Resid phase (deg) -83.2 +/- 19.9

RMS Theor. Amplitude 0.177 +/- 0.031 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 54.7 47.8 Search (1024X32) 0.168 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 86.4 83.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 28.1 28.2 Inc. seg. avg. 0.202 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 32.9 49.2 Inc. frq. avg. 0.171 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

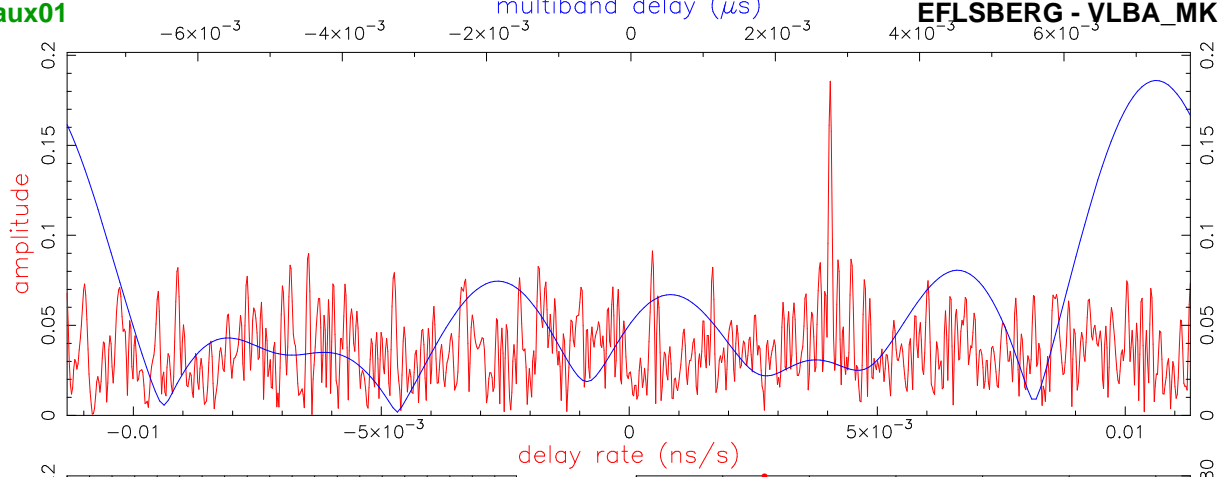
B: az 4.0 el 30.6 pa -7.6 I: az 334.9 el 37.8 pa 88.1 u,v (fr/asec) -7964.937 7397.141 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901/BI..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901/BI.W.99.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

aux01

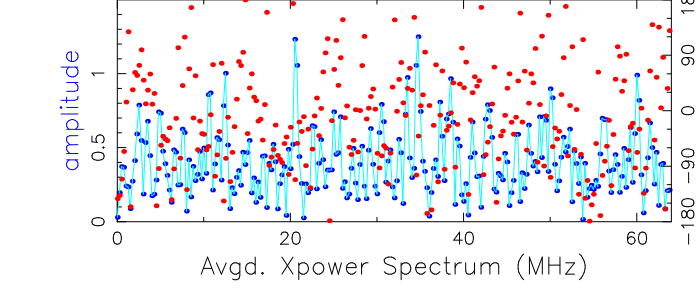
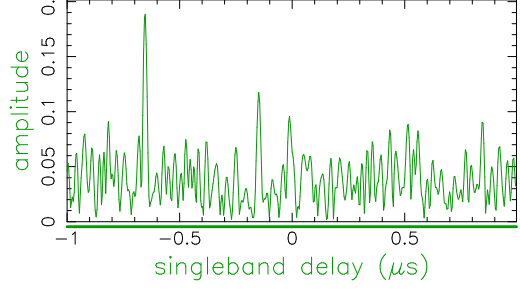
3C371.3MP15Q, No0901, Bm

EFLSBERG - VLBA_MK, fgroup W, pol LL



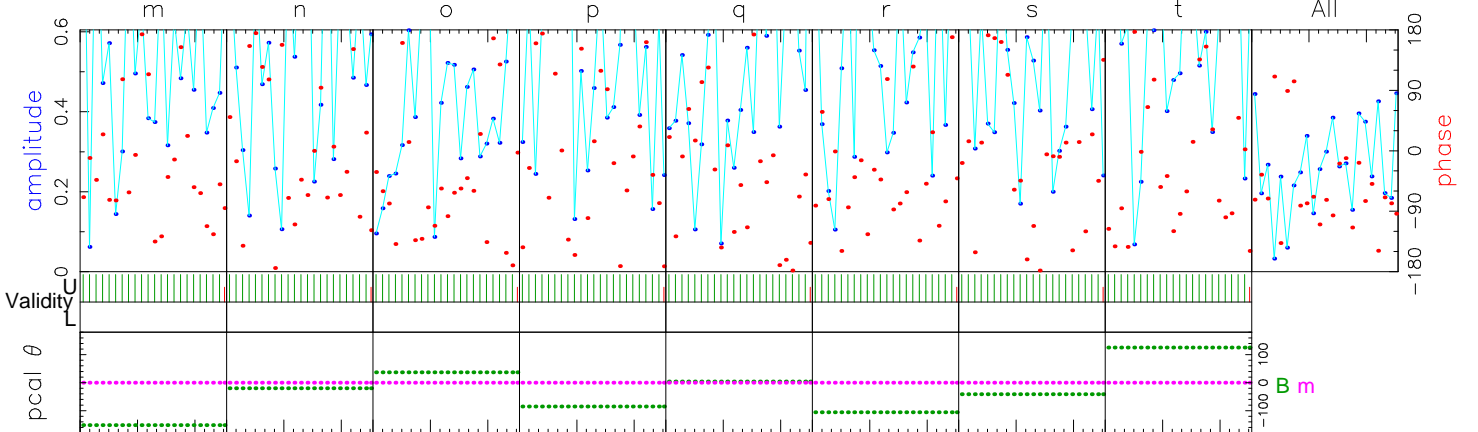
Fringe quality 0

SNR 6.4
 Int time 149.974
 Amp 0.202
 Phase -75.1
 PFD 2.1e-02
 Delays (us)
 SBD -0.653971
 MBD 0.007339
 Fringe rate (Hz)
 0.349156
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105529
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-64.2	-64.5	-95.2	-92.1	-66.0	-75.5	-37.9	-91.6	Phase	-75.1
	0.3	0.2	0.2	0.1	0.1	0.3	0.1	0.2	Ampl.	0.2
	91.8	321.7	494.0	277.6	288.0	89.4	254.4	127.7	Sbd box	89.6
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
M	0	0	0	0	0	0	0	0	PC freqs	
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:m	-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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD) -2.12401084465E+03 Apriori delay (usec) -2.12336193380E+03 Resid mbdelay (usec) 7.33915E-03 +/- 1.7E-04
 Sband delay (usec) -2.12401590505E+03 Apriori clock (usec) -3.5942257E+01 Resid sbdelay (usec) -6.53971E-01 +/- 1.3E-03
 Phase delay (usec) -2.12336193622E+03 Apriori clockrate (us/s) -1.7503902E-07 Resid phdelay (usec) -2.42209E-06 +/- 5.8E-07
 Delay rate (us/s) 2.97469985488E-01 Apriori rate (us/s) 2.97465932136E-01 Resid rate (us/s) 4.05335E-06 +/- 6.7E-09
 Total phase (deg) -67.1 Apriori accel (us/s/s) 5.69185957982E-05 Resid phase (deg) -75.1 +/- 17.9

ph/seg (deg) RMS Theor. Amplitude 0.202 +/- 0.031 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.4 42.9 Search (1024X32) 0.183 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 67.6 74.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 21.1 25.3 Inc. seg. avg. 0.215 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 38.2 44.2 Inc. frq. avg. 0.185 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 4.0 el 30.6 pa -7.6 m: az 348.4 el 37.3 pa 146.6 u,v (fr/asec) -4778.919 13543.350 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bm...3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bm.W.107.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

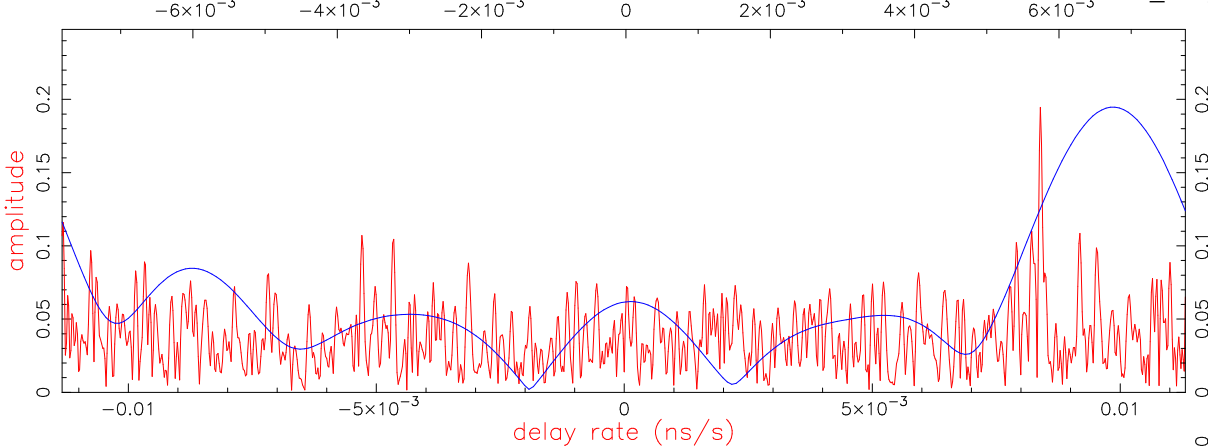
aux01

3C371.3MP15Q, No0901, Bm

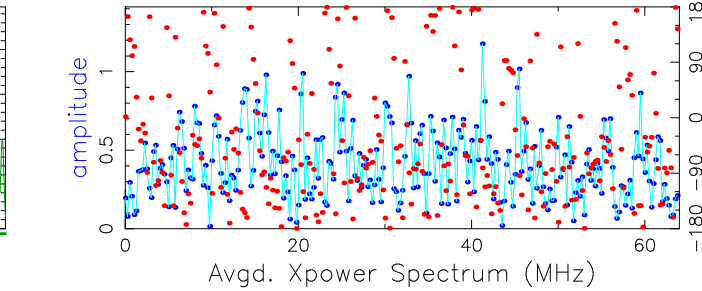
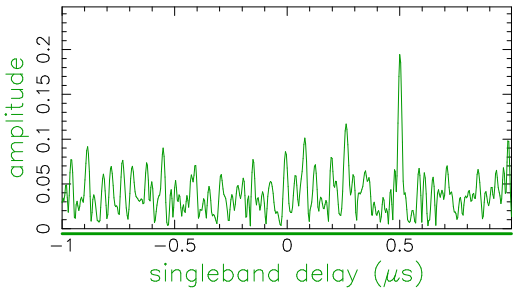
EFLSBERG - VLBA_MK, fgroup W, pol RR

multiband delay (μ s)

Fringe quality 0

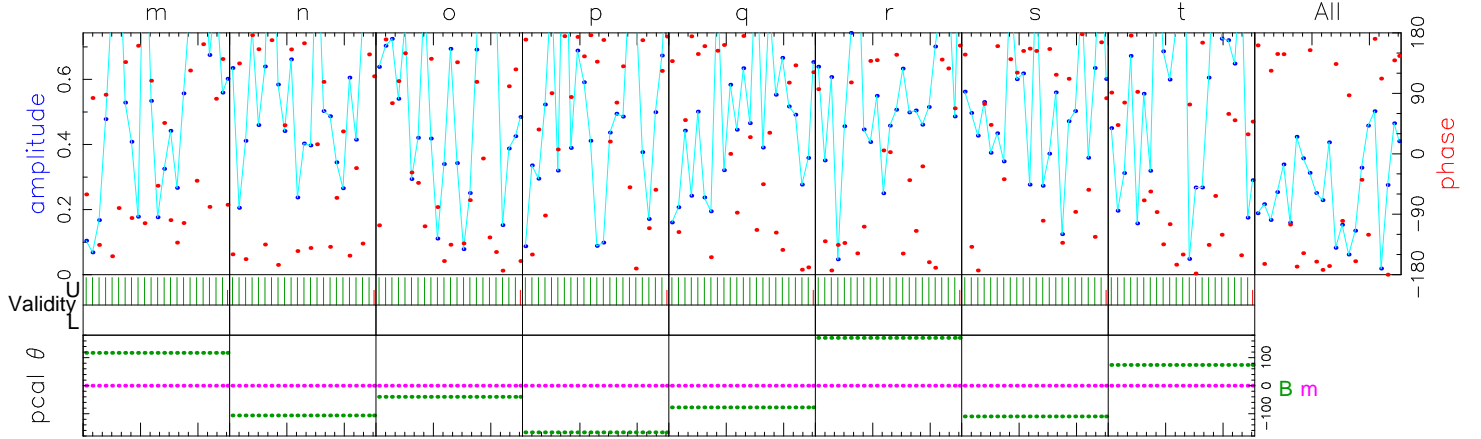


SNR 6.5
 Int time 149.974
 Amp 0.248
 Phase -177.4
 PFD 8.4e-03
 Delays (us)
 SBD 0.500876
 MBD 0.006794
 Fringe rate (Hz) 0.724174
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105531
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-138.2	-179.8	-165.7	155.8	175.6	170.2	158.5	-130.8	Phase	-177.4
	0.2	0.4	0.2	0.2	0.2	0.3	0.4	0.3	Ampl.	0.2
	509.9	385.8	233.6	69.6	495.3	308.0	392.1	323.0	Sbd box	385.2
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
M	0	0	0	0	0	0	0	0	PC freqs	
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-2.12285514011E+03	Apriori delay (usec)	-2.12336193380E+03	Resid mbdelay (usec)	6.79369E-03	+/-	1.7E-04
Sband delay (usec)	-2.12286105805E+03	Apriori clock (usec)	-3.5942257E+01	Resid sbdelay (usec)	5.00876E-01	+/-	1.3E-03
Phase delay (usec)	-2.12336193952E+03	Apriori clockrate (us/s)	-1.7503902E-07	Resid phdelay (usec)	-5.71986E-06	+/-	5.6E-07
Delay rate (us/s)	2.97474339074E-01	Apriori rate (us/s)	2.97465932136E-01	Resid rate (us/s)	8.40694E-06	+/-	6.5E-09
Total phase (deg)	-169.3	Apriori accel (us/s/s)	5.69185957982E-05	Resid phase (deg)	-177.4	+/-	17.5

ph/seg (deg)	52.5	RMS	42.0	Theor.	52.5	Amplitude	0.248 +/- 0.038	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	77.7	Search (1024X32)	0.187	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	29.9	Inc. seg. avg.	0.267	Inc. frq. avg.	0.249	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	32.0	Inc. frq. avg.	0.249	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 4.0 el 30.6 pa -7.6		m: az 348.4 el 37.3 pa 146.6		u,v (fr/asec)	-4778.919 13543.350				ion window (TEC)	0.00	0.00

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bm..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bm.W.115.3MP15Q

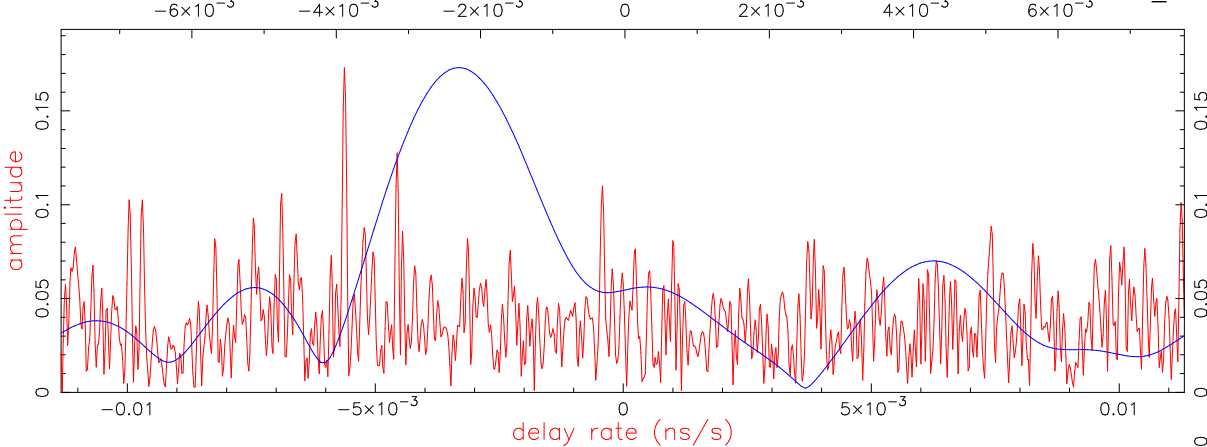
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, Bm

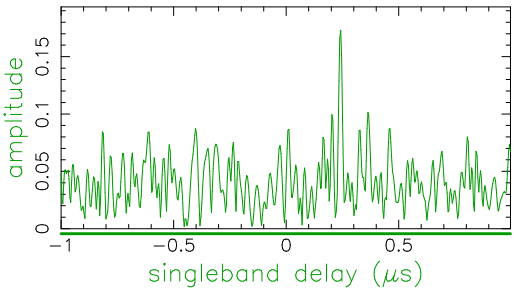
EFLSBERG - VLBA_MK, fgroup W, pol LR

multiband delay (μ s)

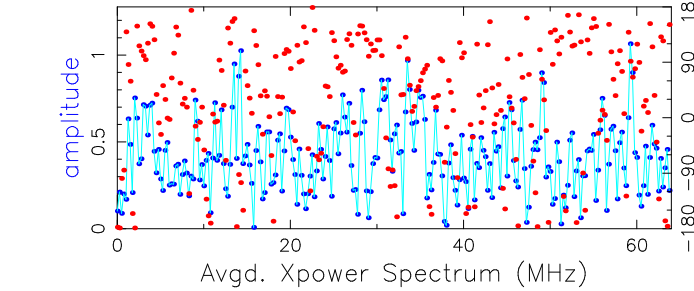


Fringe quality 0

SNR 5.8
Int time 149.974
Amp 0.193
Phase 3.0
PFD 4.8e-01
Delays (us)
SBD 0.241030
MBD -0.002346
Fringe rate (Hz)
-0.484274
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

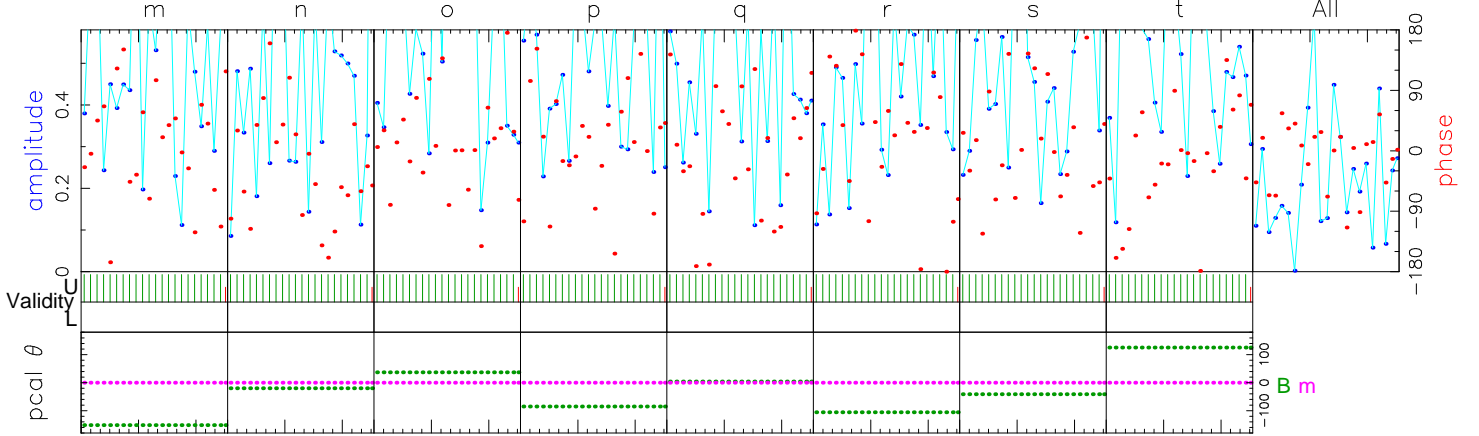


singleband delay (μ s)



Exp. c241a
Exper # 1234
Yr:day 2024:109
Start 163000.00
Stop 163230.02
FRT 163115.00
Corr/FF/build
2025:007:141222
2025:041:105535
2024:113:095956
RA & Dec (J2000)
18h06m50.680649s
+69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
B	0	0	0	0	0	0	0	0		
m	0	0	0	0	0	0	0	0		
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:m	-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		
m	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD) -2.12311427949E+03 Apriori delay (usec) -2.12336193380E+03 Resid mbdelay (usec) -2.34569E-03 +/- 1.9E-04
 Sband delay (usec) -2.12312090355E+03 Apriori clock (usec) -3.5942257E+01 Resid sbdelay (usec) 2.41030E-01 +/- 1.5E-03
 Phase delay (usec) -2.12336193371E+03 Apriori clockrate (us/s) -1.7503902E-07 Resid phdelay (usec) 9.56790E-08 +/- 6.3E-07
 Delay rate (us/s) 2.97460310200E-01 Apriori rate (us/s) 2.97465932136E-01 Resid rate (us/s) -5.62194E-06 +/- 7.3E-09
 Total phase (deg) -349.0 Apriori accel (us/s/s) 5.69185957982E-05 Resid phase (deg) 3.0 +/- 19.6

RMS Theor. Amplitude 0.193 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 48.2 47.0 Search (1024X32) 0.171 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 87.3 82.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 28.7 27.7 Inc. seg. avg. 0.183 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 36.0 48.4 Inc. frq. avg. 0.185 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 4.0 el 30.6 pa -7.6 m: az 348.4 el 37.3 pa 146.6 u,v (fr/asec) -4778.919 13543.350 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bm..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bm.W.125.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

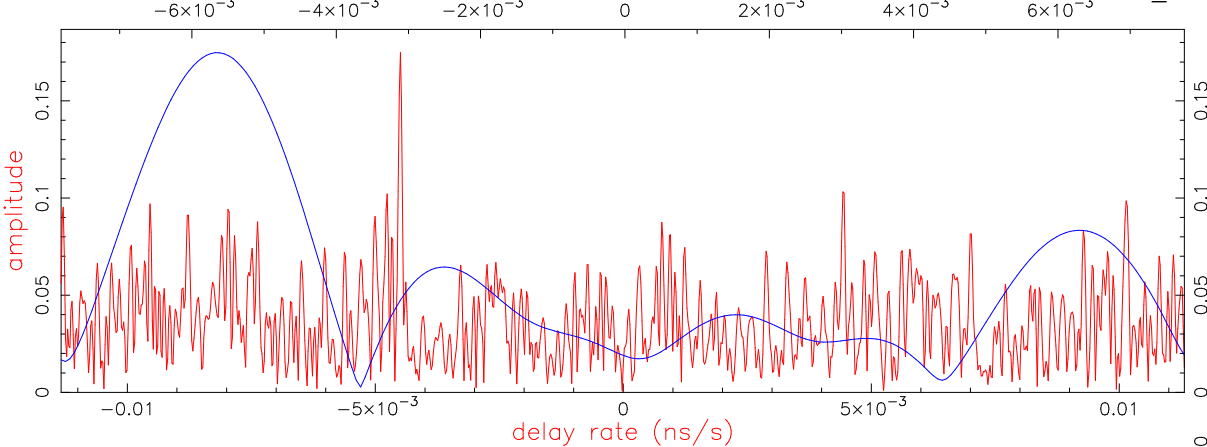
aux01

3C371.3MP15Q, No0901, Bm

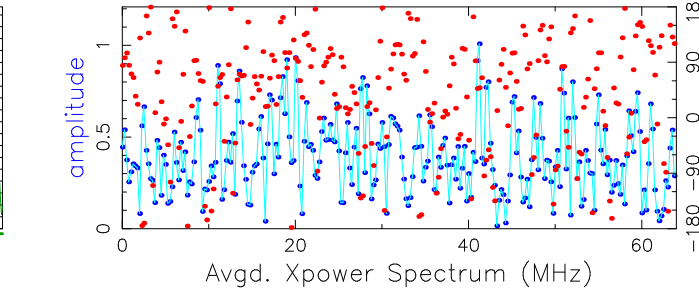
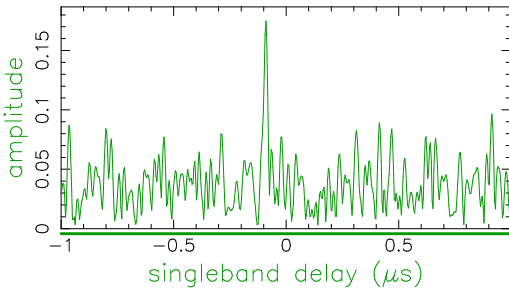
EFLSBERG - VLBA_MK, fgroup W, pol RL

multiband delay (μ s)

Fringe quality 0

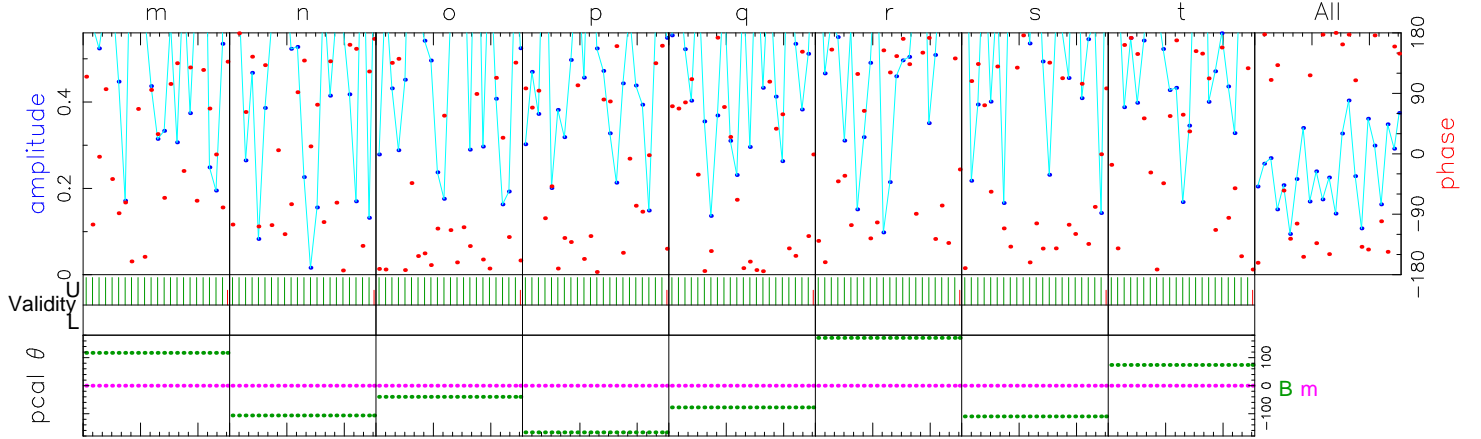


SNR 5.9
 Int time 149.974
 Amp 0.187
 Phase -172.4
 PFD 4.5e-01
 Delays (us)
 SBD -0.090198
 MBD -0.005658
 Fringe rate (Hz)
 -0.387101
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105537
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	115.1	-149.8	-166.7	-164.0	141.1	-150.0	-165.9	169.2	Phase	-172.4
	0.1	0.2	0.3	0.2	0.1	0.3	0.3	0.2	Ampl.	0.2
	109.6	58.7	409.8	103.6	259.2	266.9	232.7	300.6	Sbd box	233.9
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
m	0	0	0	0	0	0	0	0	PC freqs	
B:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-2.12344571721E+03	Apriori delay (usec)	-2.12336193380E+03	Resid mbdelay (usec)	-5.65841E-03	+/-	1.9E-04
Sband delay (usec)	-2.12345213180E+03	Apriori clock (usec)	-3.5942257E+01	Resid sbdelay (usec)	-9.01980E-02	+/-	1.5E-03
Phase delay (usec)	-2.12336193936E+03	Apriori clockrate (us/s)	-1.7503902E-07	Resid phdelay (usec)	-5.56048E-06	+/-	6.3E-07
Delay rate (us/s)	2.97461438272E-01	Apriori rate (us/s)	2.97465932136E-01	Resid rate (us/s)	-4.49386E-06	+/-	7.3E-09
Total phase (deg)	-164.4	Apriori accel (us/s/s)	5.69185957982E-05	Resid phase (deg)	-172.4	+/-	19.6

ph/seg (deg)	49.0	Theor.	46.9	Amplitude	0.187 +/- 0.032	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	61.4	Search (1024X32)	0.174	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	38.5	Inc. seg. avg.	0.193	Inc. frq. avg.	0.186	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	37.6	Inc. frq. avg.	0.186	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
									ion window (TEC)	0.00 0.00

B: az 4.0 el 30.6 pa -7.6 m: az 348.4 el 37.3 pa 146.6 u,v (fr/asec) -4778.919 13543.350 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901/Bm..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901/Bm.W.133.3MP15Q

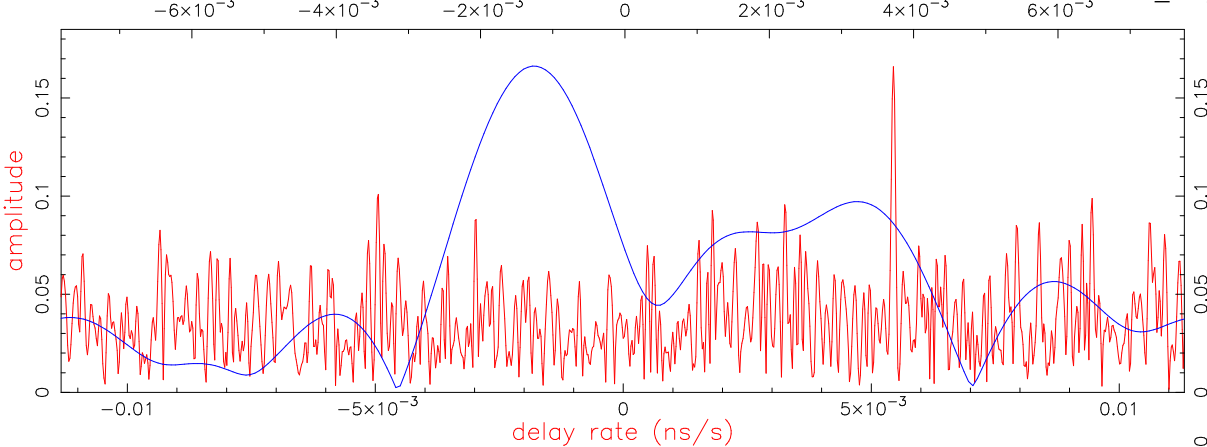
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, Bn

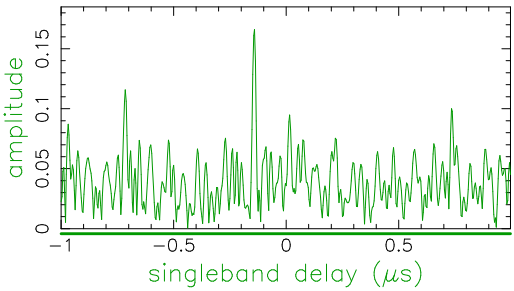
EFLSBERG - VLBA_NL, fgroup W, pol RR

multiband delay (μ s)

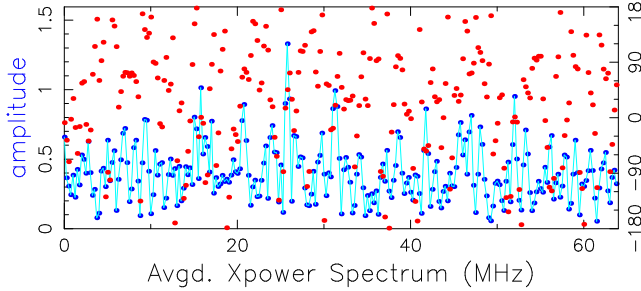


Fringe quality 0

SNR 5.6
 Int time 149.943
 Amp 0.185
 Phase -128.9
 PFD 9.0e-01
 Delays (us)
 SBD -0.141931
 MBD -0.001320
 Fringe rate (Hz)
 0.470800
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

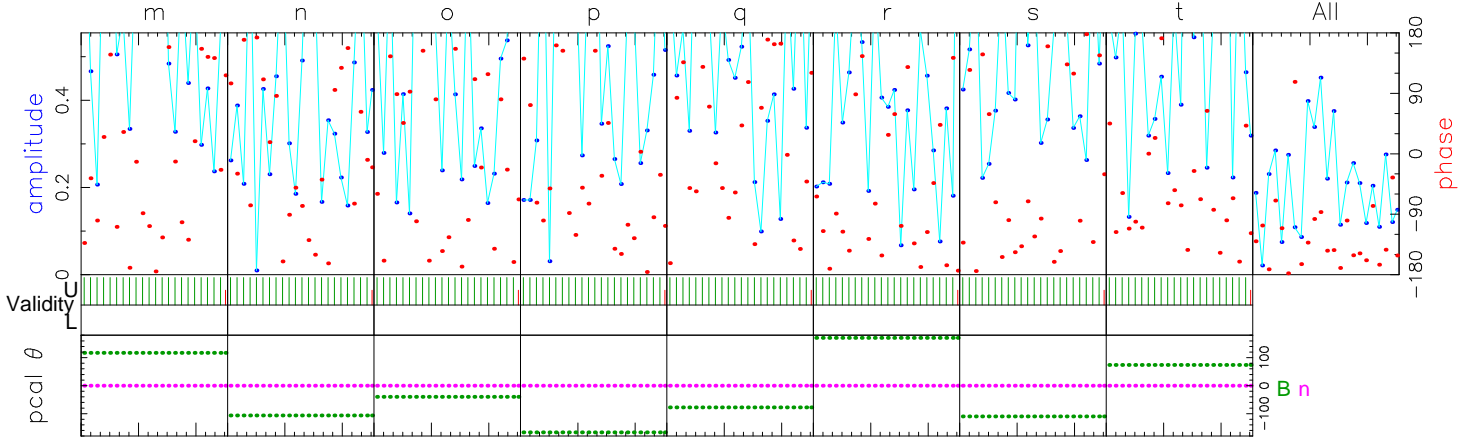


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105529
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-120.2	-118.4	-150.9	-116.9	-176.2	-149.8	-149.2	-92.2	Phase	-128.9
	0.2	0.1	0.2	0.3	0.0	0.2	0.4	0.3	Ampl.	0.2
	138.5	263.0	400.6	352.0	103.3	423.2	221.1	283.8	Sbd box	220.7
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	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)	-2.34867208550E+03	Apriori delay (usec)	-2.34853014060E+03	Resid mbdelay (usec)	-1.31990E-03	+/-	1.9E-04
Sband delay (usec)	-2.34867207185E+03	Apriori clock (usec)	-3.5120003E+01	Resid sbdelay (usec)	-1.41931E-01	+/-	1.5E-03
Phase delay (usec)	-2.34853014475E+03	Apriori clockrate (us/s)	-4.8679897E-07	Resid phdelay (usec)	-4.15666E-06	+/-	6.6E-07
Delay rate (us/s)	4.60578385703E-01	Apriori rate (us/s)	4.60572920183E-01	Resid rate (us/s)	5.46552E-06	+/-	7.6E-09
Total phase (deg)	-240.8	Apriori accel (us/s/s)	2.35154594487E-05	Resid phase (deg)	-128.9	+/-	20.4

ph/seg (deg)	RMS 45.2	Theor. 48.9	Amplitude Search (1024X32)	0.161	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	70.4	85.4	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)	29.6	28.8	Inc. seg. avg.	0.171	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256 t_cohere infinite	dr window (ns/s)	-0.011	0.011
amp/frq (%)	56.0	50.3	Inc. frq. avg.	0.177	Data rate(Mb/s): 2048	ion window (TEC)	0.00	0.00	

B: az 4.0 el 30.6 pa -7.6 n: az 334.0 el 38.2 pa 71.8 u,v (fr/asec) -7581.629 5438.972 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bn..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bn.W.108.3MP15Q

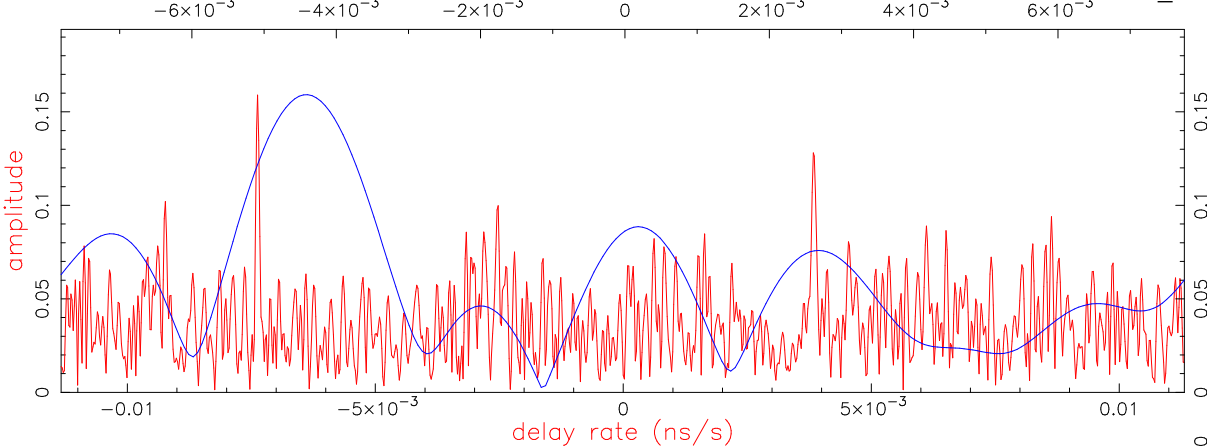
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, Bn

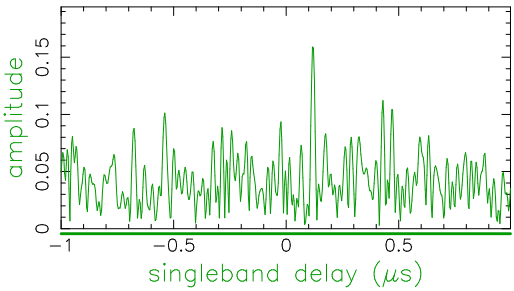
EFLSBERG - VLBA_NL, fgroup W, pol LR

multiband delay (μ s)

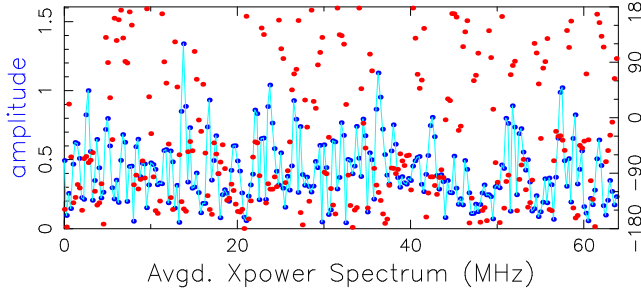


Fringe quality 0

SNR 5.4
 Int time 149.943
 Amp 0.194
 Phase -149.0
 PFD 1.0e+00
 Delays (us)
 SBD 0.119011
 MBD -0.004363
 Fringe rate (Hz)
 -0.635315
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

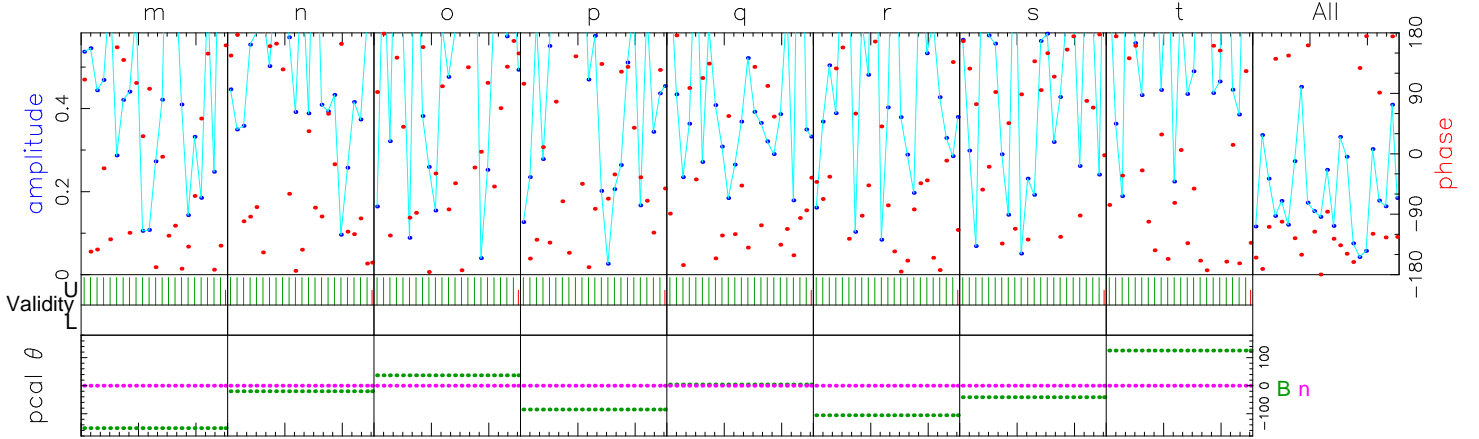


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105532
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	-2.34840950400E+03	Apriori delay (usec)	-2.34853014060E+03	Resid mbdelay (usec)	-4.36340E-03	+/-	2.0E-04
Sband delay (usec)	-2.34841112910E+03	Apriori clock (usec)	-3.5120003E+01	Resid sbdelay (usec)	1.19011E-01	+/-	1.6E-03
Phase delay (usec)	-2.34853014540E+03	Apriori clockrate (us/s)	-4.8679897E-07	Resid phdelay (usec)	-4.80414E-06	+/-	6.8E-07
Delay rate (us/s)	4.60565544811E-01	Apriori rate (us/s)	4.60572920183E-01	Resid rate (us/s)	-7.37537E-06	+/-	7.9E-09
Total phase (deg)	-260.9	Apriori accel (us/s/s)	2.35154594487E-05	Resid phase (deg)	-149.0	+/-	21.1

ph/seg (deg)	46.7	Theor.	50.6	Amplitude	0.194 +/- 0.036	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	71.7	Search (1024X32)	0.158	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	Inc. seg. avg.	0.177	Inc. frq. avg.	0.193	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	41.8	Inc. frq. avg.	0.193			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 4.0 el 30.6 pa -7.6 n: az 334.0 el 38.2 pa 71.8 u,v (fr/asec) -7581.629 5438.972 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bn..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bn.W.120.3MP15Q

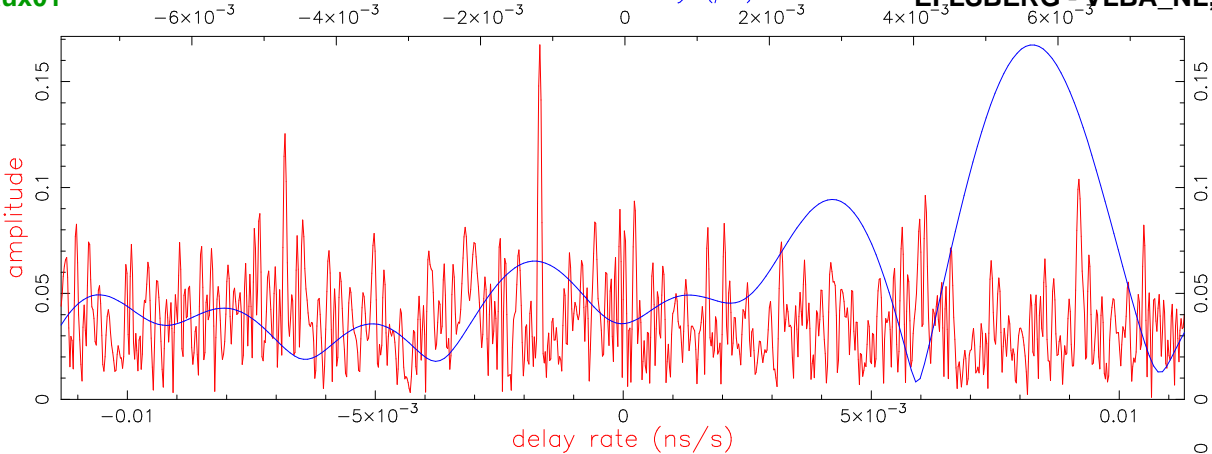
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, Bn

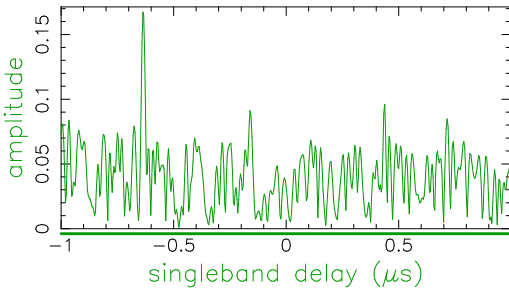
EFLSBERG - VLBA_NL, fgroup W, pol RL

multiband delay (μ s)

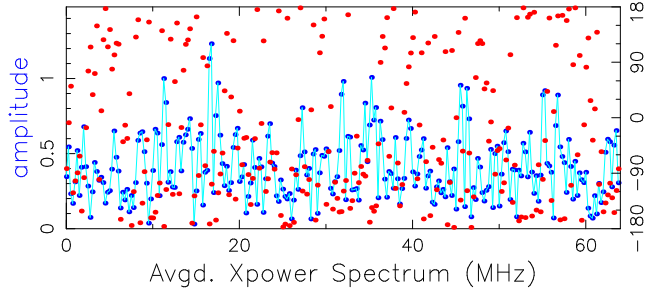


Fringe quality 0

SNR 5.7
 Int time 149.943
 Amp 0.171
 Phase 40.8
 PFD 8.0e-01
 Delays (us)
 SBD -0.635114
 MBD 0.005647
 Fringe rate (Hz)
 -0.145068
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

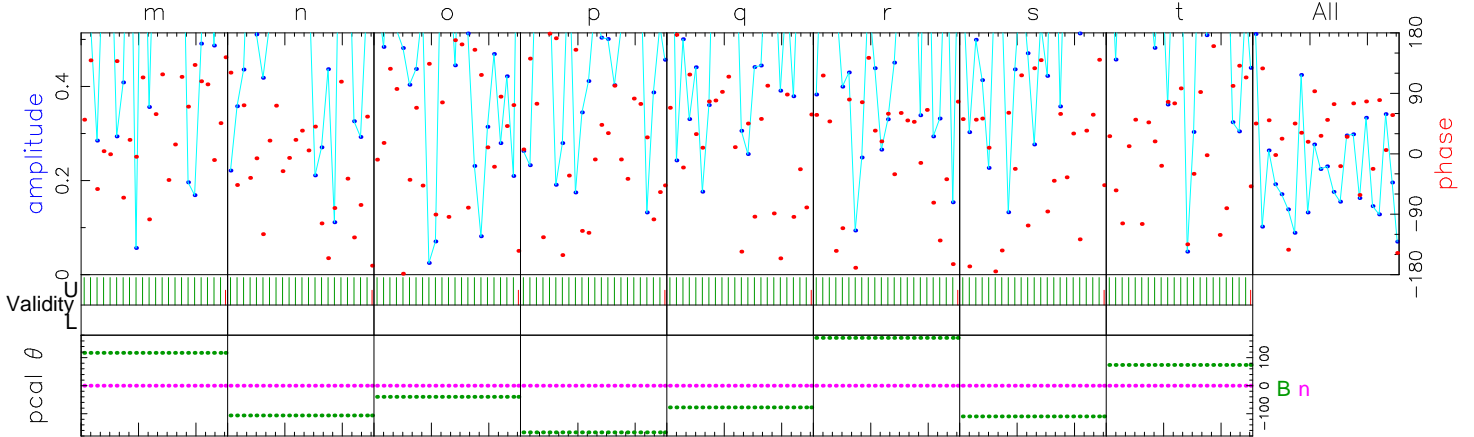


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105535
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
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	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	-2.34916511872E+03	Apriori delay (usec)	-2.34853014060E+03	Resid mbdelay (usec)	5.64688E-03	+/-	1.9E-04
Sband delay (usec)	-2.34916525485E+03	Apriori clock (usec)	-3.5120003E+01	Resid sbdelay (usec)	-6.35114E-01	+/-	1.5E-03
Phase delay (usec)	-2.34853013928E+03	Apriori clockrate (us/s)	-4.8679897E-07	Resid phdelay (usec)	1.31610E-06	+/-	6.5E-07
Delay rate (us/s)	4.60571236085E-01	Apriori rate (us/s)	4.60572920183E-01	Resid rate (us/s)	-1.68410E-06	+/-	7.5E-09
Total phase (deg)	-71.1	Apriori accel (us/s/s)	2.35154594487E-05	Resid phase (deg)	40.8	+/-	20.2

ph/seg (deg)	61.5	Theor.	48.3	Amplitude	0.171 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	70.1	Search (1024X32)	0.165	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	26.7	Inc. seg. avg.	0.166	Inc. frq. avg.	0.160	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	45.5	Inc. frq. avg.	0.160	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 4.0 el 30.6 pa -7.6 n: az 334.0 el 38.2 pa 71.8 u,v (fr/asec) -7581.629 5438.972 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bn...3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bn.W.127.3MP15Q

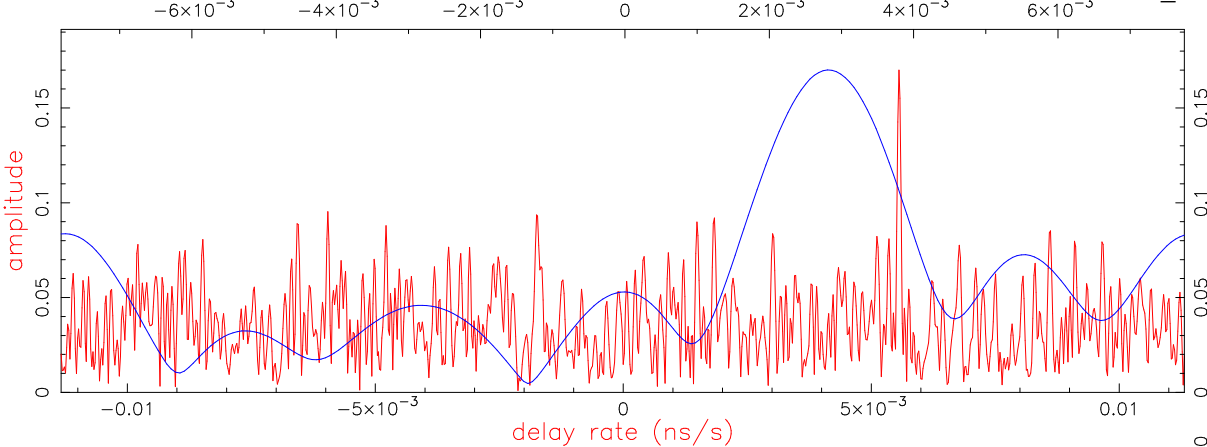
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, Bn

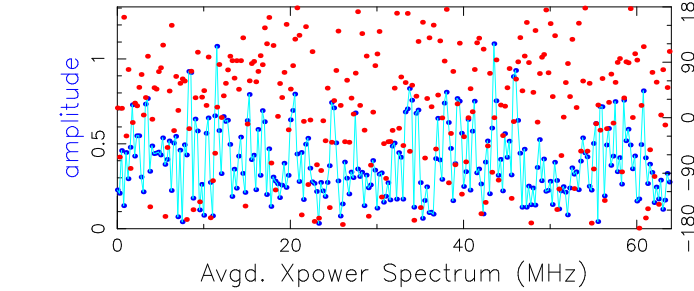
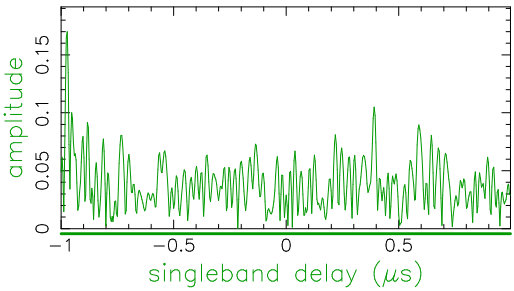
EFLSBERG - VLBA_NL, fgroup W, pol LL

multiband delay (μ s)



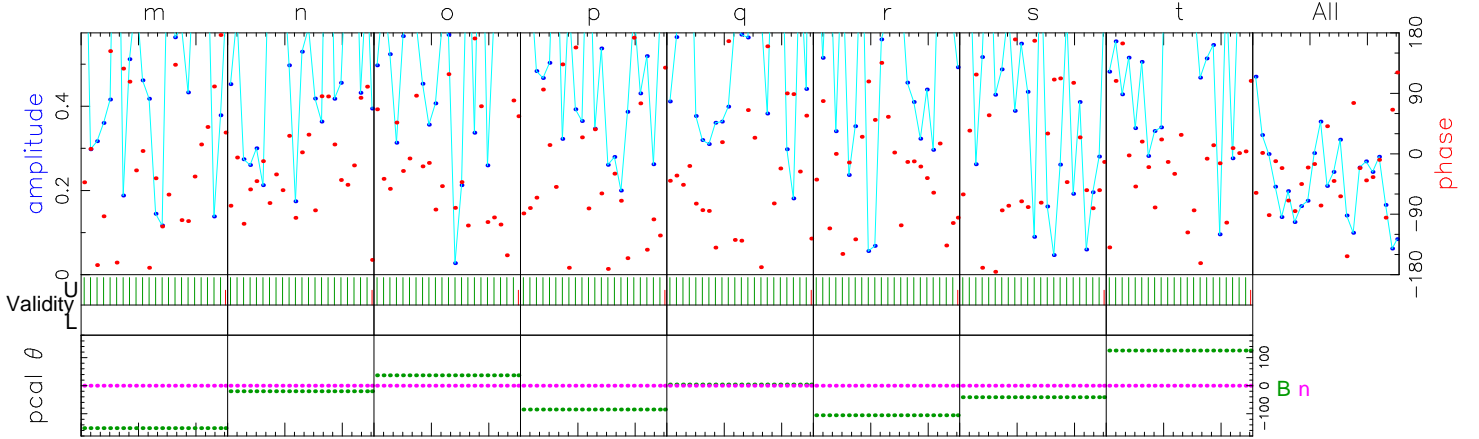
Fringe quality 0

SNR 5.8
 Int time 149.943
 Amp 0.191
 Phase -40.3
 PFD 5.8e-01
 Delays (us)
 SBD -0.974134
 MBD 0.002797
 Fringe rate (Hz)
 0.479061
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105527
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-59.2	-13.4	-26.7	-98.6	-52.5	-42.1	-46.9	-20.8	Phase	-40.3
	0.1	0.3	0.1	0.2	0.3	0.2	0.1	0.3	Ampl.	0.2
	72.9	8.5	441.7	329.4	118.1	312.8	476.6	16.9	Sbd box	7.6
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD) -2.34951171856E+03 Apriori delay (usec) -2.34853014060E+03 Resid mbdelay (usec) 2.79703E-03 +/- 1.9E-04
 Sband delay (usec) -2.34950427485E+03 Apriori clock (usec) -3.5120003E+01 Resid sbdelay (usec) -9.74134E-01 +/- 1.5E-03
 Phase delay (usec) -2.34853014189E+03 Apriori clockrate (us/s) -4.8679897E-07 Resid phdelay (usec) -1.29852E-06 +/- 6.4E-07
 Delay rate (us/s) 4.60578481609E-01 Apriori rate (us/s) 4.60572920183E-01 Resid rate (us/s) 5.56143E-06 +/- 7.4E-09
 Total phase (deg) -152.2 Apriori accel (us/s/s) 2.35154594487E-05 Resid phase (deg) -40.3 +/- 19.8

RMS Theor. Amplitude 0.191 +/- 0.033 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 57.2 47.4 Search (1024X32) 0.168 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 62.7 82.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 29.6 28.0 Inc. seg. avg. 0.186 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 37.4 48.8 Inc. frq. avg. 0.186 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

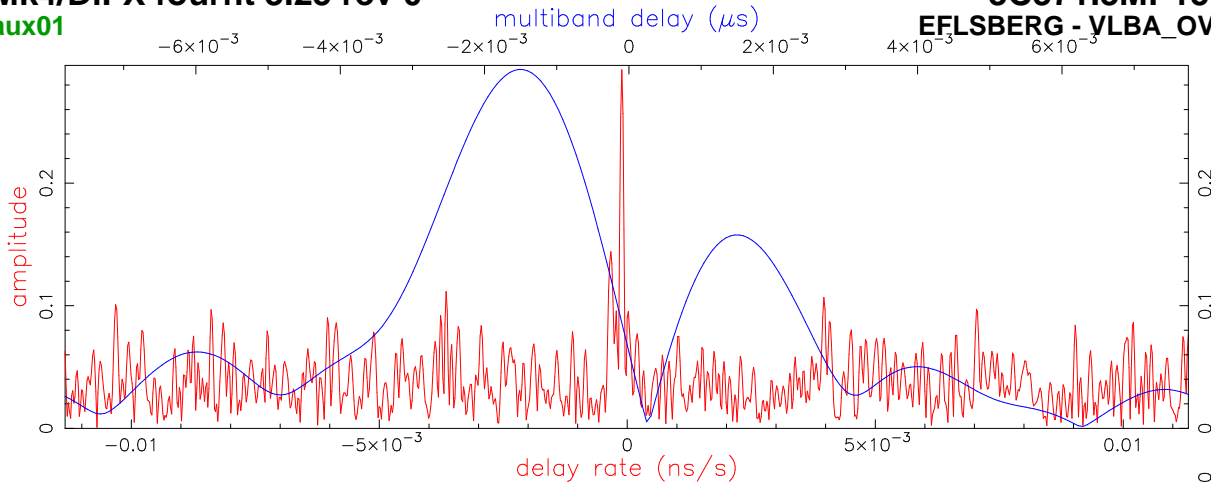
B: az 4.0 el 30.6 pa -7.6 n: az 334.0 el 38.2 pa 71.8 u,v (fr/asec) -7581.629 5438.972 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bn..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bn.W.96.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

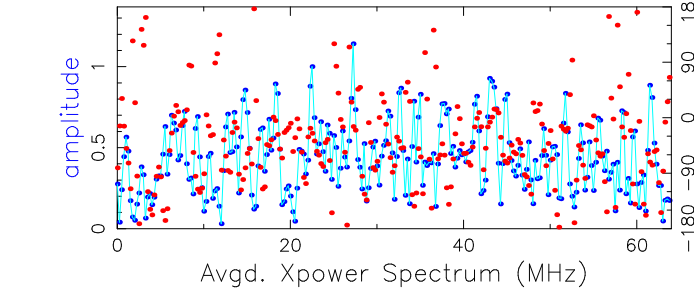
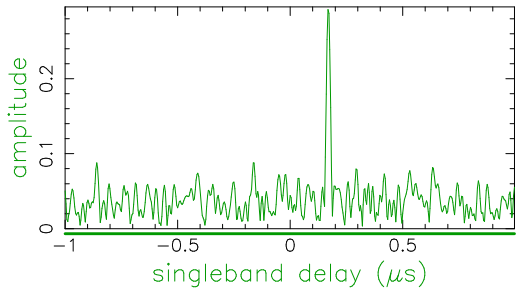
aux01

3C371.3MP15Q, No0901, Bo

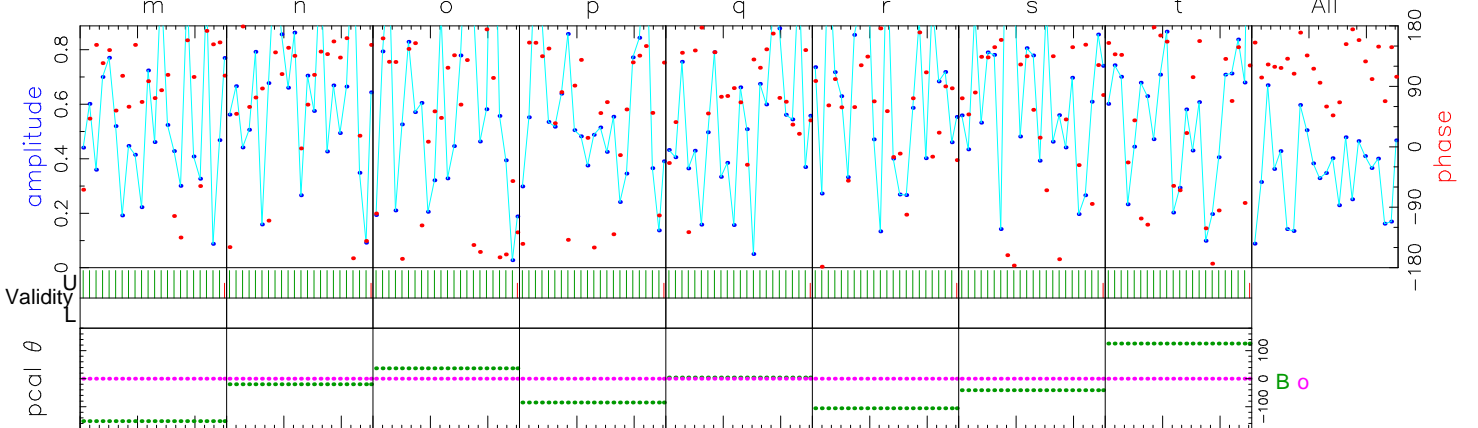
EFLSBERG - VLBA_OV, fgroup W, pol LL



Fringe quality 9
 SNR 9.9
 Int time 149.974
 Amp 0.296
 Phase 122.5
 PFD 7.8e-15
 Delays (us)
 SBD 0.169491
 MBD -0.001451
 Fringe rate (Hz) -0.009032
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105530
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"



Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
B	0	0	0	0	0	0	0	0		
o	0	0	0	0	0	0	0	0		
B:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:0	-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		
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	-3.79453212357E+03	Apriori delay (usec)	-3.79470254770E+03	Resid mbdelay (usec)	-1.45087E-03	+/-	1.1E-04
Sband delay (usec)	-3.79453305695E+03	Apriori clock (usec)	-6.0465508E+01	Resid sbdelay (usec)	1.69491E-01	+/-	8.7E-04
Phase delay (usec)	-3.79470254375E+03	Apriori clockrate (us/s)	-6.7081106E-07	Resid phdelay (usec)	3.94937E-06	+/-	3.7E-07
Delay rate (us/s)	4.48244867259E-01	Apriori rate (us/s)	4.48244972110E-01	Resid rate (us/s)	-1.04851E-07	+/-	4.3E-09
Total phase (deg)	-42.8	Apriori accel (us/s/s)	3.75342066616E-05	Resid phase (deg)	122.5	+/-	11.6

ph/seg (deg) 35.1 27.7 Search (1024X32) 0.289 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 53.2 48.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 29.2 16.3 Inc. seg. avg. 0.313 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 18.8 28.5 Inc. frq. avg. 0.310 Data rate(Mb/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 B: az 4.0 el 30.6 pa -7.6 o: az 334.6 el 43.2 pa 98.8 u,v (fr/asec) -7338.676 8618.676 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bo...3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bo.W.109.3MP15Q

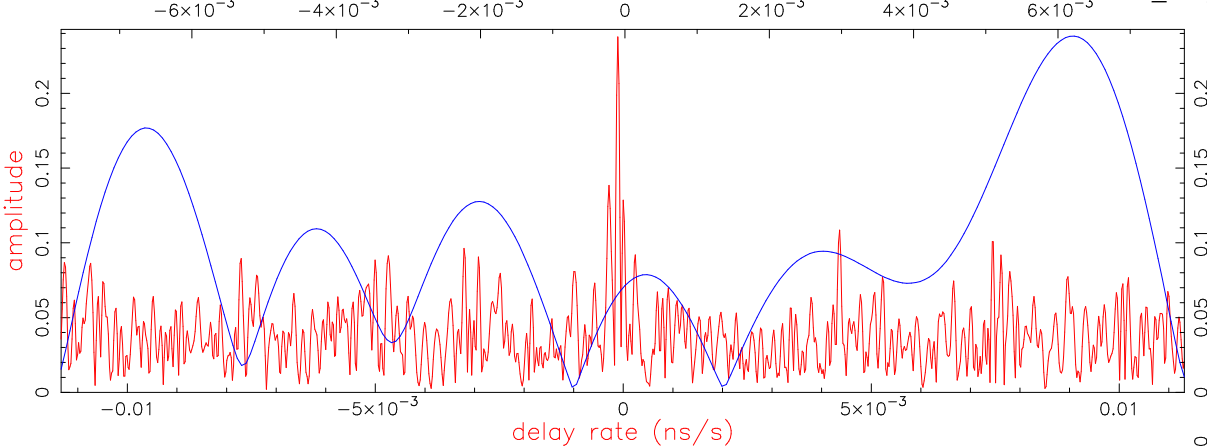
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, Bo

EFLSBERG - VLBA_OV, fgroup W, pol RR

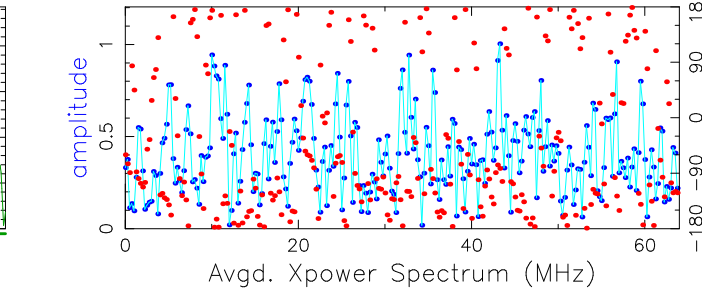
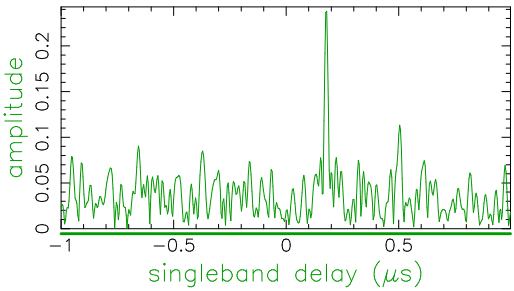
multiband delay (μ s)



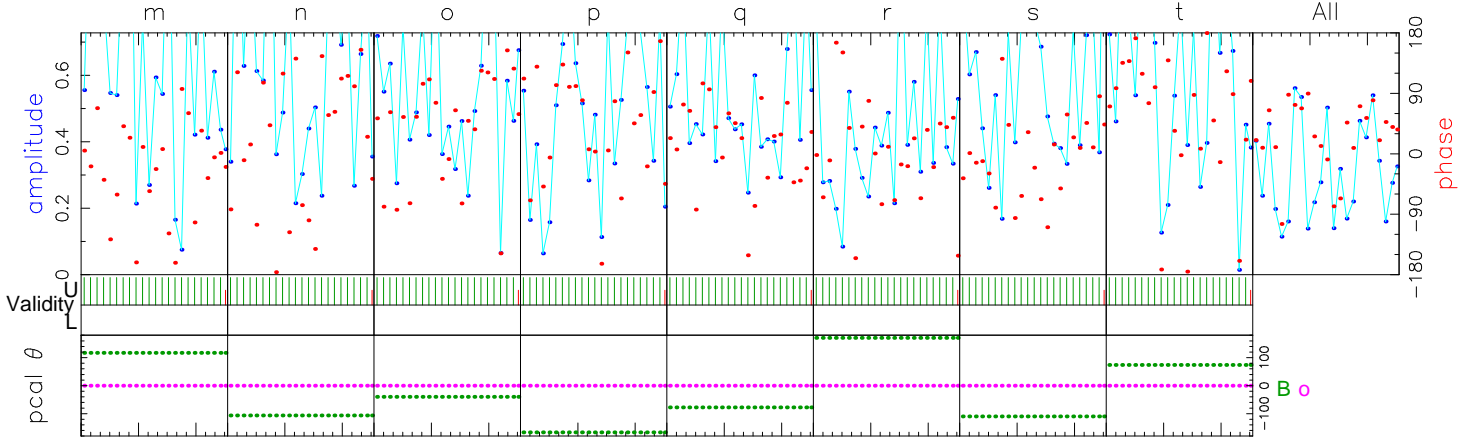
Fringe quality 9

SNR 8.1
 Int time 149.974
 Amp 0.243
 Phase 40.2
 PFD 7.5e-08
 Delays (us)
 SBD 0.177848
 MBD 0.006139
 Fringe rate (Hz)
 -0.008907
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105532
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"



Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-1.4	82.6	79.6	79.8	22.2	6.7	-4.7	92.1	Phase	40.2
	0.4	0.2	0.3	0.3	0.3	0.3	0.4	0.4	Ampl.	0.3
	303.5	456.8	302.8	301.4	303.0	304.2	303.2	302.5	Sbd box	302.5
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	-3.79452453410E+03		Apriori delay (usec)	-3.79470254770E+03	Resid mbdelay (usec)	6.13860E-03	+/-	1.3E-04		
Sband delay (usec)	-3.79452469970E+03		Apriori clock (usec)	-6.0465508E+01	Resid sbdelay (usec)	1.77848E-01	+/-	1.1E-03		
Phase delay (usec)	-3.79470254641E+03		Apriori clockrate (us/s)	-6.7081106E-07	Resid phdelay (usec)	1.29740E-06	+/-	4.5E-07		
Delay rate (us/s)	4.48244868706E-01		Apriori rate (us/s)	4.48244972110E-01	Resid rate (us/s)	-1.03404E-07	+/-	5.2E-09		
Total phase (deg)		-125.0	Apriori accel (us/s/s)	3.75342066616E-05	Resid phase (deg)	40.2	+/-	14.1		

ph/seg (deg) 53.0 33.8 Search (1024X32) 0.232 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 65.7 59.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 46.2 19.9 Inc. seg. avg. 0.265 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.5 34.8 Inc. frq. avg. 0.295 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 B: az 4.0 el 30.6 pa -7.6 o: az 334.6 el 43.2 pa 98.8 u,v (fr/asec) -7338.676 8618.676 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bo..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bo.W.119.3MP15Q

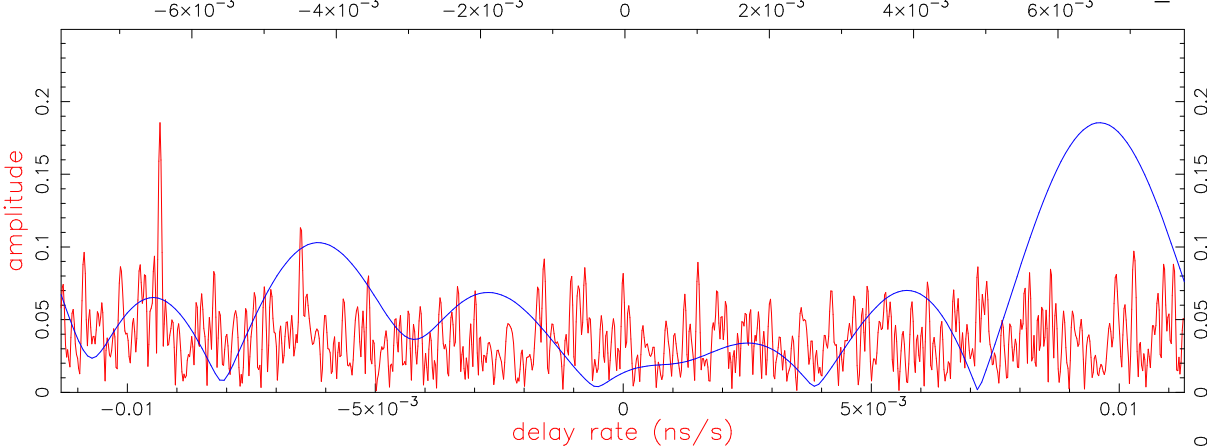
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, Bo

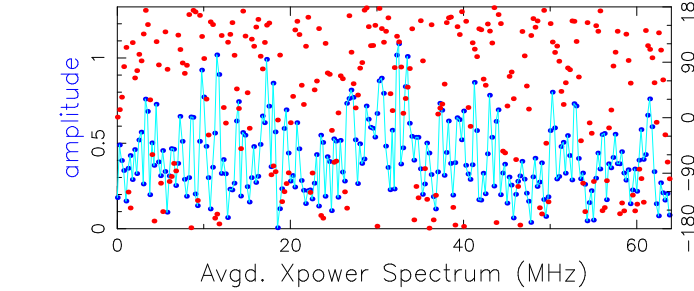
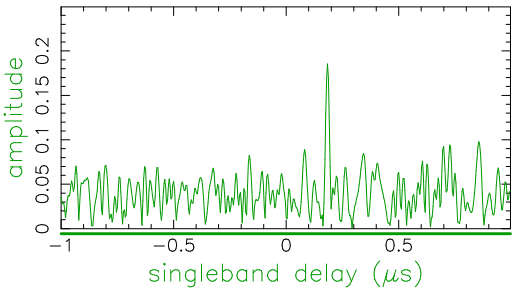
EFLSBERG - VLBA_OV, fgroup W, pol LR

multiband delay (μ s)



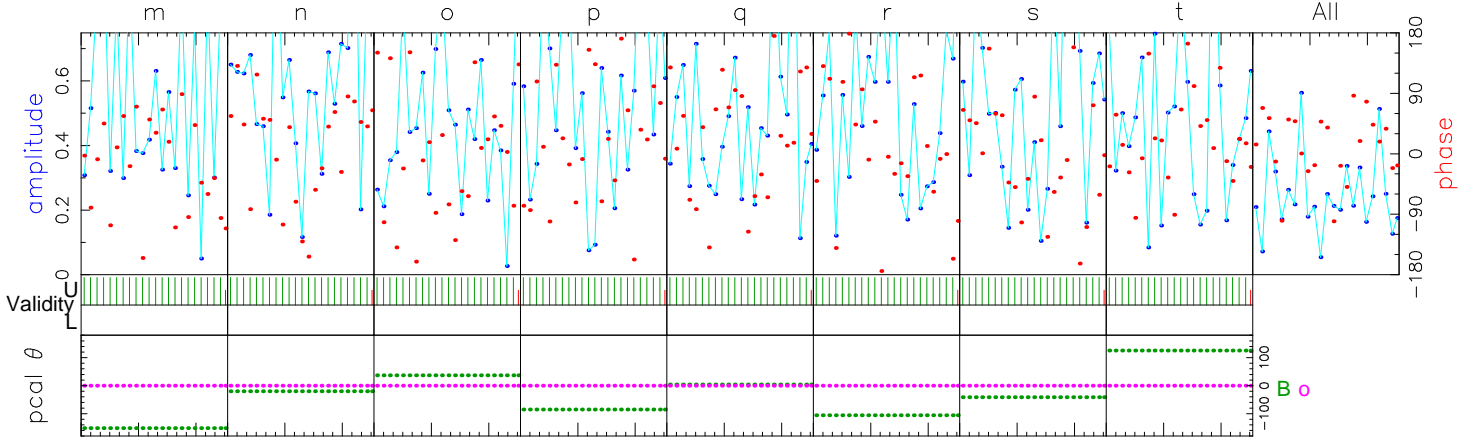
Fringe quality 0

SNR 6.2
 Int time 149.974
 Amp 0.250
 Phase 14.2
 PFD 6.8e-02
 Delays (us)
 SBD 0.183531
 MBD 0.006576
 Fringe rate (Hz)
 -0.805216
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105536
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
B	0	0	0	0	0	0	0	0		
o	0	0	0	0	0	0	0	0		
B:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:0	-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		
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD) -3.79452409702E+03 Apriori delay (usec) -3.79470254770E+03 Resid mbdelay (usec) 6.57568E-03 +/- 1.7E-04
 Sband delay (usec) -3.79451901695E+03 Apriori clock (usec) -6.0465508E+01 Resid sbdelay (usec) 1.83531E-01 +/- 1.4E-03
 Phase delay (usec) -3.79470254725E+03 Apriori clockrate (us/s) -6.7081106E-07 Resid phdelay (usec) 4.57245E-07 +/- 5.9E-07
 Delay rate (us/s) 4.48235624356E-01 Apriori rate (us/s) 4.48244972110E-01 Resid rate (us/s) -9.34775E-06 +/- 6.9E-09
 Total phase (deg) -151.1 Apriori accel (us/s/s) 3.75342066616E-05 Resid phase (deg) 14.2 +/- 18.4

ph/seg (deg) 49.8 RMS 44.2 Theor. 44.2 Amplitude 0.250 +/- 0.040 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.9 77.2 Search (1024X32) 0.183 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 26.7 26.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.5 45.5 Inc. seg. avg. 0.260 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 4.0 el 30.6 pa -7.6 o: az 334.6 el 43.2 pa 98.8 u,v (fr/asec) -7338.676 8618.676 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bo..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bo.W.132.3MP15Q

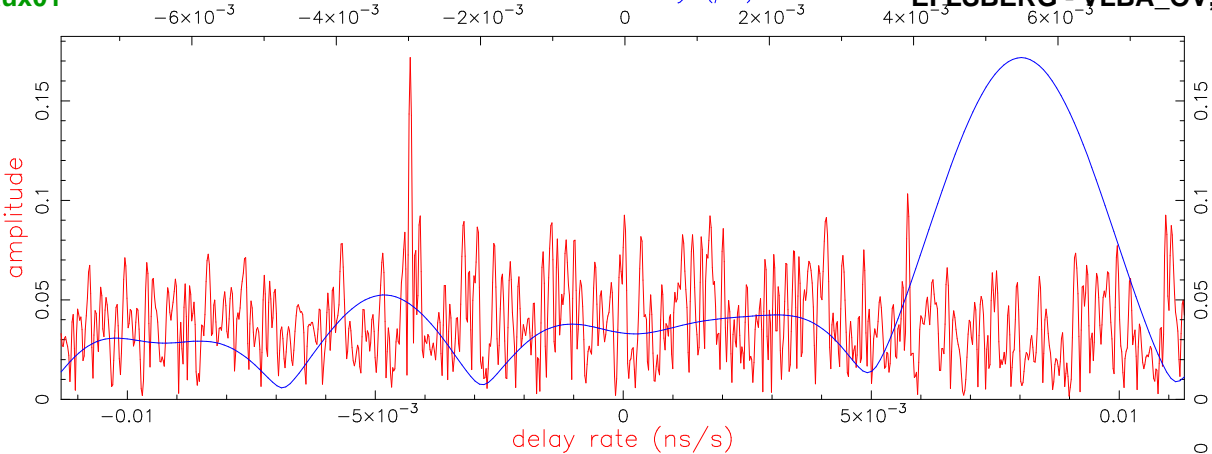
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, Bo

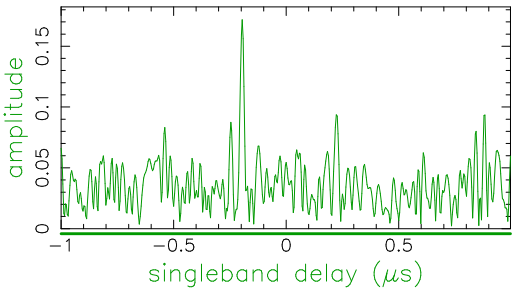
EFLSBERG - VLBA_OV, fgroup W, pol RL

multiband delay (μ s)

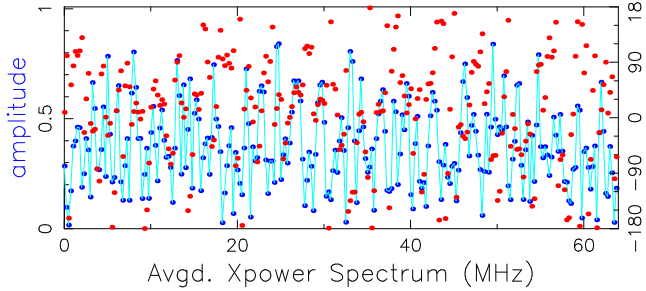


Fringe quality 0

SNR 5.8
 Int time 149.974
 Amp 0.182
 Phase -126.7
 PFD 6.7e-01
 Delays (us)
 SBD -0.195516
 MBD 0.005489
 Fringe rate (Hz)
 -0.370811
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

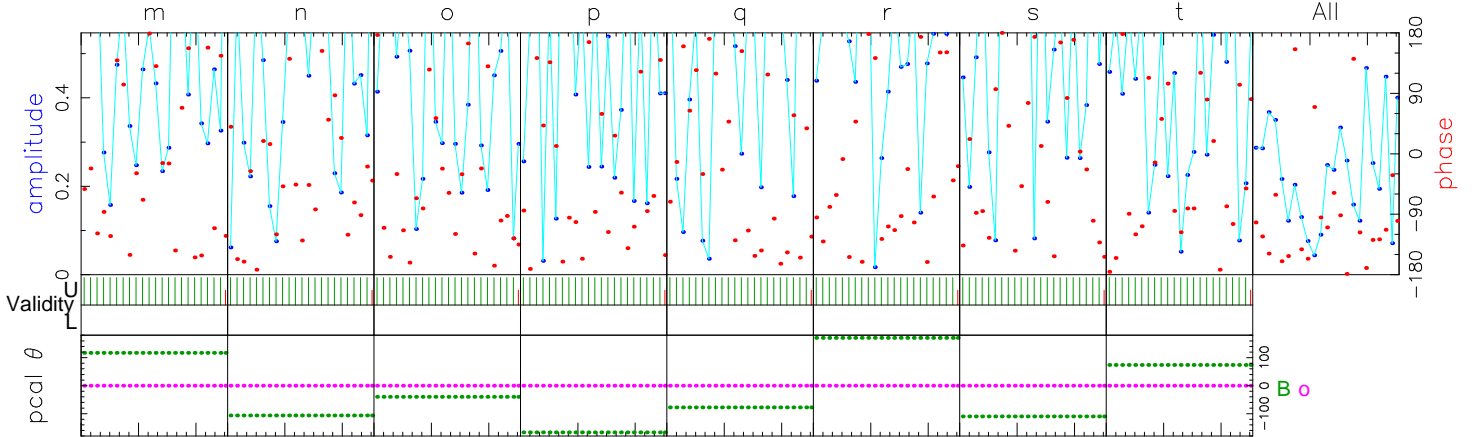


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105539
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-141.7	-88.5	-124.7	-145.0	-147.0	-111.6	-119.1	-134.1	Phase	-126.7
	0.2	0.2	0.2	0.3	0.1	0.3	0.1	0.2	Ampl.	0.2
	209.4	157.0	455.8	203.7	295.9	207.2	496.8	109.6	Sbd box	206.9
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
B:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-3.79490018403E+03	Apriori delay (usec)	-3.79470254770E+03	Resid mbdelay (usec)	5.48868E-03	+/-	1.9E-04
Sband delay (usec)	-3.79489806420E+03	Apriori clock (usec)	-6.0465508E+01	Resid sbdelay (usec)	-1.95516E-01	+/-	1.5E-03
Phase delay (usec)	-3.79470255179E+03	Apriori clockrate (us/s)	-6.7081106E-07	Resid phdelay (usec)	-4.08450E-06	+/-	6.4E-07
Delay rate (us/s)	4.48240667362E-01	Apriori rate (us/s)	4.48244972110E-01	Resid rate (us/s)	-4.30475E-06	+/-	7.4E-09
Total phase (deg)	-291.9	Apriori accel (us/s/s)	3.75342066616E-05	Resid phase (deg)	-126.7	+/-	19.9

ph/seg (deg)	RMS 56.2	Theor. 47.8	Amplitude Search (1024X32)	0.182 +/- 0.032	0.166	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	76.7	83.4	Interp.	0.000	0.171	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	21.5	28.2	Inc. seg. avg.	0.181	0.171	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	29.6	49.2	Inc. frq. avg.	0.171	0.171	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 4.0 el 30.6 pa -7.6 o: az 334.6 el 43.2 pa 98.8 u,v (fr/asec) -7338.676 8618.676 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bo..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bo.W.147.3MP15Q

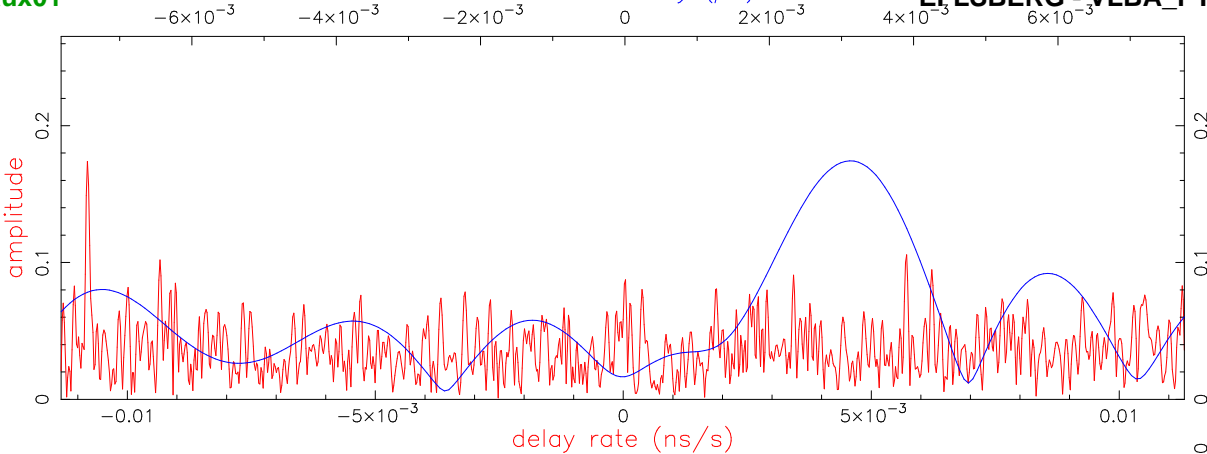
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, Bp

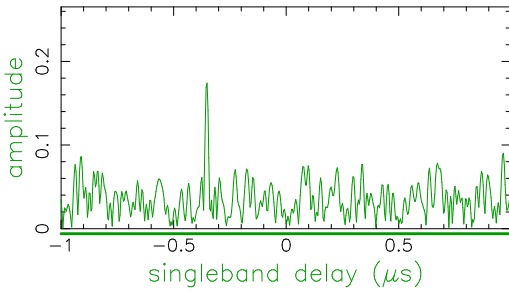
EFLSBERG - VLBA_PT, fgroup W, pol LL

multiband delay (μ s)

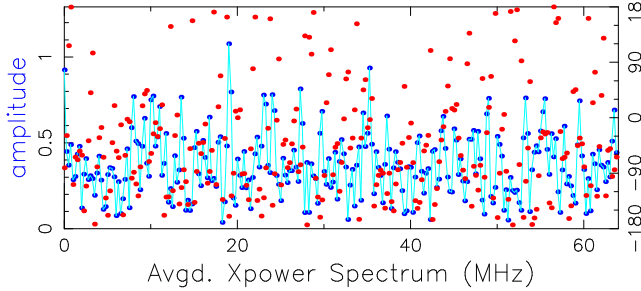


Fringe quality 0

SNR 5.9
 Int time 149.967
 Amp 0.265
 Phase 142.2
 PFD 3.5e-01
 Delays (us)
 SBD -0.352999
 MBD 0.003051
 Fringe rate (Hz)
 -0.931456
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

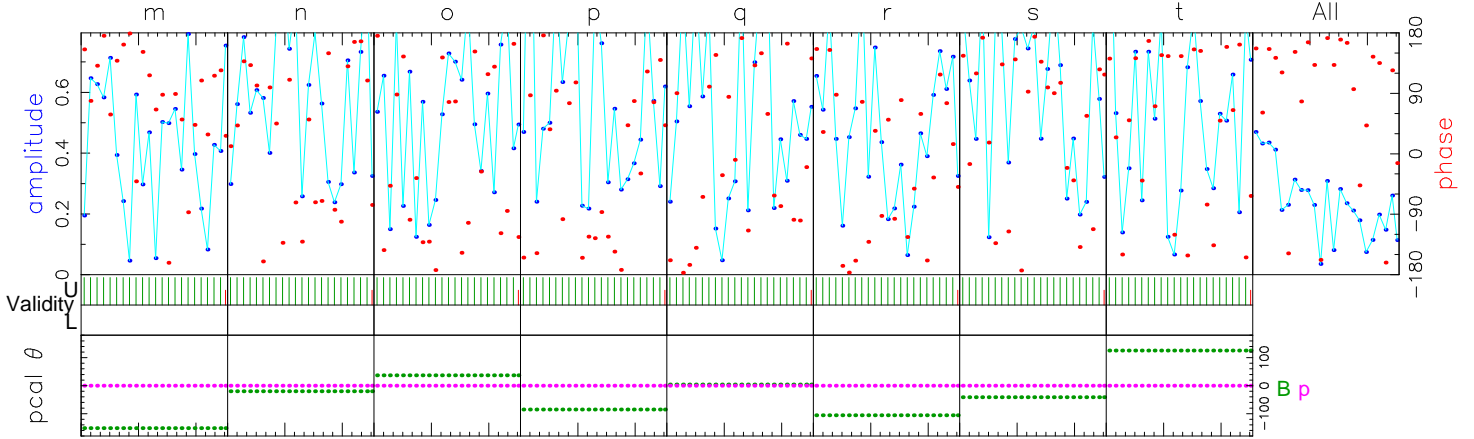


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105528
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
B	0	0	0	0	0	0	0	0		
p	0	0	0	0	0	0	0	0		
B:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:p	-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		
p	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	-2.03237611576E+03	Apriori delay (usec)	-2.03201979224E+03	Resid mbdelay (usec)	3.05148E-03	+/-	1.8E-04
Sband delay (usec)	-2.03237279149E+03	Apriori clock (usec)	-4.1110146E+01	Resid sbdelay (usec)	-3.52999E-01	+/-	1.5E-03
Phase delay (usec)	-2.03201978766E+03	Apriori clockrate (us/s)	-5.6823600E-07	Resid phdelay (usec)	4.58585E-06	+/-	6.2E-07
Delay rate (us/s)	4.89291672615E-01	Apriori rate (us/s)	4.89302485894E-01	Resid rate (us/s)	-1.08133E-05	+/-	7.2E-09
Total phase (deg)	-183.1	Apriori accel (us/s/s)	3.26460385805E-05	Resid phase (deg)	142.2	+/-	19.4

ph/seg (deg)	59.9	RMS	46.5	Theor.	0.265 +/- 0.045	Search (1024X32)	0.172	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000		
amp/seg (%)	76.0	Interp.	0.000	Inc. seg. avg.	0.275	Inc. frq. avg.	0.268	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	SampCntNorm:	enabled	mb window (us)	-0.008	0.008		
ph/frq (deg)	36.4	Inc. seg. avg.	0.275	Inc. frq. avg.	0.268	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	Data rate (Mb/s):	2048	nlags:	256	t_cohere	infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	32.3	Inc. frq. avg.	0.268													

B: az 4.0 el 30.6 pa -7.6 p: az 335.3 el 37.1 pa 90.7 u,v (fr/asec) -8032.341 7708.670 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bp..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bp.W.100.3MP15Q

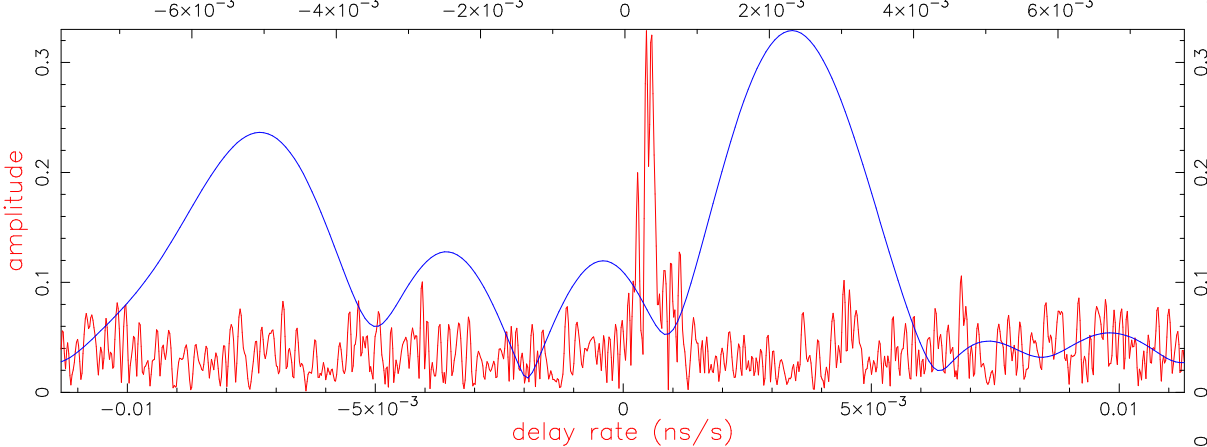
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, BP

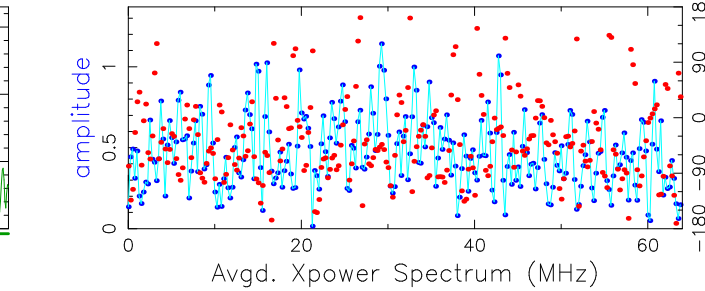
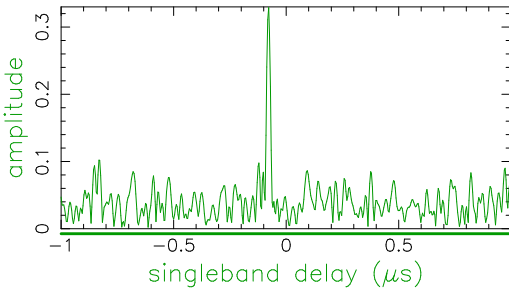
EFLSBERG - PICOVEL, fgroup W, pol RR

multiband delay (μ s)



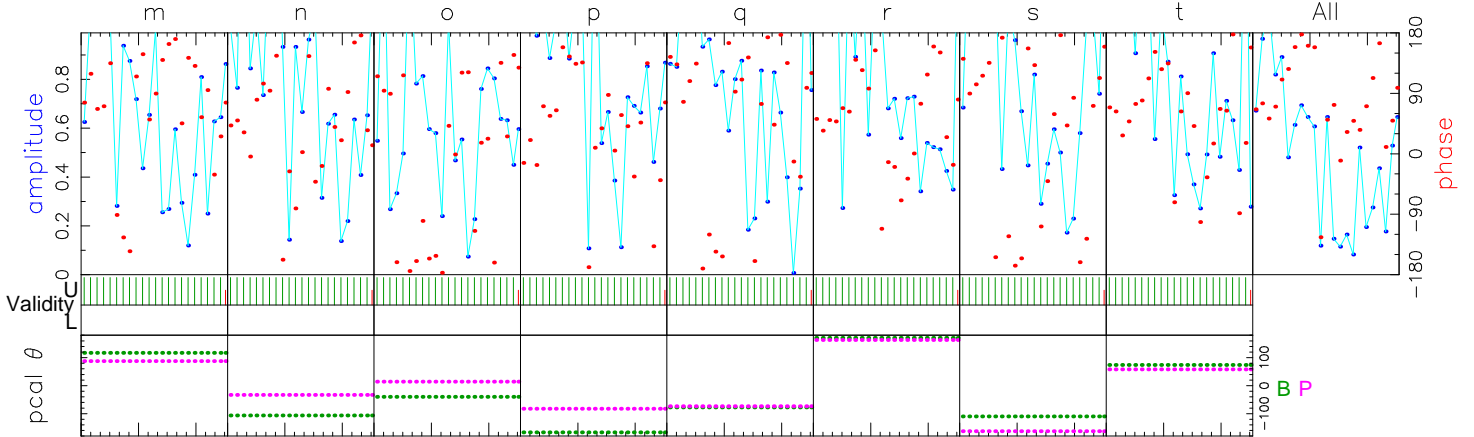
Fringe quality 9

SNR 11.0
 Int time 149.974
 Amp 0.330
 Phase 93.4
 PFD 5.3e-20
 Delays (us)
 SBD -0.078850
 MBD 0.002288
 Fringe rate (Hz)
 0.039915
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105529
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	99.4	64.7	134.1	57.3	131.1	61.9	146.3	67.3	Phase	93.4
	0.3	0.3	0.2	0.4	0.5	0.4	0.5	0.5	Ampl.	0.4
	234.6	235.9	324.4	236.1	237.4	237.0	236.7	236.2	Sbd box	236.8
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	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)	4.59863922770E+03	Apriori delay (usec)	4.59871506460E+03	Resid mbdelay (usec)	2.28810E-03	+/-	9.8E-05
Sband delay (usec)	4.59863621435E+03	Apriori clock (usec)	-3.4391655E+01	Resid sbdelay (usec)	-7.88502E-02	+/-	7.8E-04
Phase delay (usec)	4.59871506761E+03	Apriori clockrate (us/s)	-7.8777609E-07	Resid phdelay (usec)	3.01314E-06	+/-	3.3E-07
Delay rate (us/s)	6.07596213048E-02	Apriori rate (us/s)	6.07591579364E-02	Resid rate (us/s)	4.63368E-07	+/-	3.9E-09
Total phase (deg)	332.7	Apriori accel (us/s/s)	-6.73245522055E-06	Resid phase (deg)	93.4	+/-	10.4

ph/seg (deg) 60.3 24.9 Search (1024X32) 0.324 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 102.3 43.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 40.2 14.7 Inc. seg. avg. 0.456 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 36.8 25.6 Inc. frq. avg. 0.389 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 B: az 4.0 el 30.6 pa -7.6 P: az 359.9 el 16.9 pa -0.0 u,v (fr/asec) -1023.006 -909.984 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//BP..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//BP.W.102.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

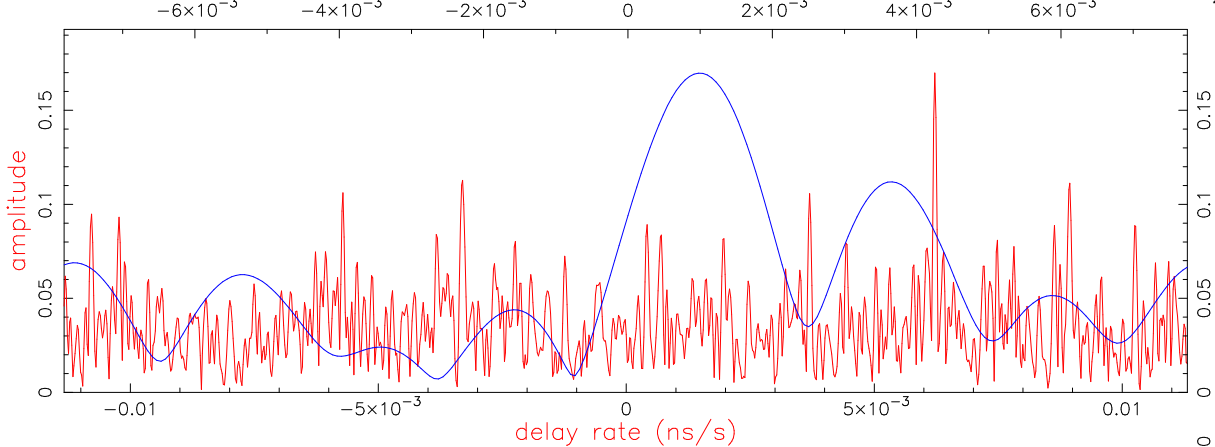
aux01

3C371.3MP15Q, No0901, BP

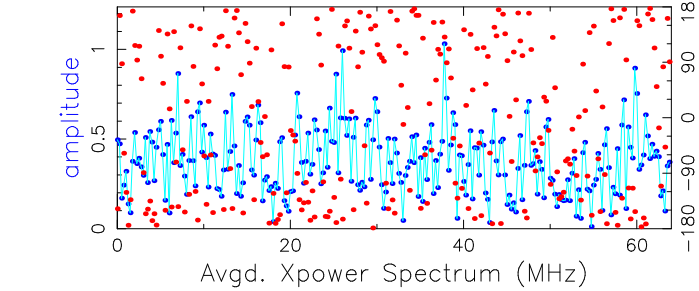
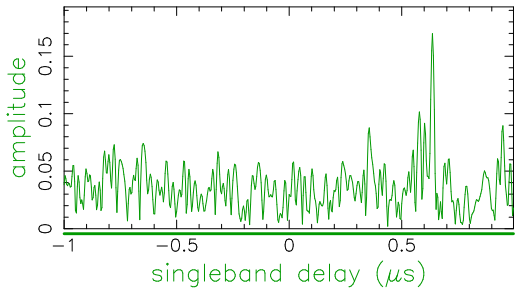
EFLSBERG - PICOVEL, fgroup W, pol LR

multiband delay (μ s)

Fringe quality 0

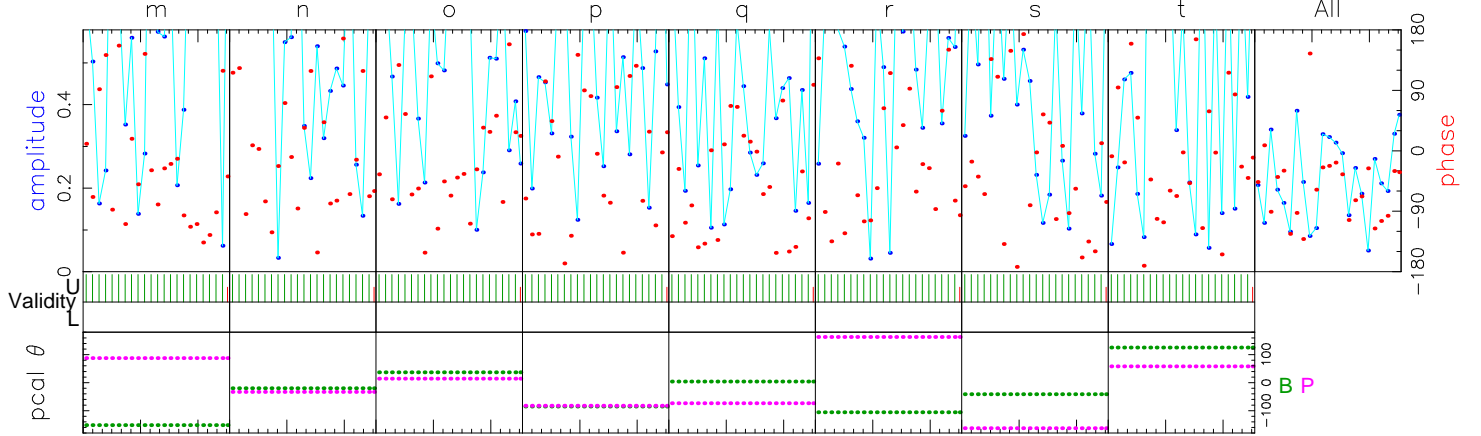


SNR 5.7
 Int time 149.974
 Amp 0.193
 Phase -60.8
 PFD 7.9e-01
 Delays (us)
 SBD 0.636495
 MBD 0.000987
 Fringe rate (Hz)
 0.537505
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105531
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-78.1	-53.9	-32.8	-30.0	-80.0	-56.4	-98.7	-48.2	Phase	-60.8
	0.4	0.2	0.3	0.0	0.1	0.2	0.2	0.3	Ampl.	0.2
	419.8	46.7	63.2	396.8	313.1	360.8	3.3	107.4	Sbd box	419.9
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	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) 4.59935667647E+03 Apriori delay (usec) 4.59871506460E+03 Resid mbdelay (usec) 9.86870E-04 +/- 1.9E-04
 Sband delay (usec) 4.59935155910E+03 Apriori clock (usec) -3.4391655E+01 Resid sbdelay (usec) 6.36495E-01 +/- 1.5E-03
 Phase delay (usec) 4.59871506264E+03 Apriori clockrate (us/s) -7.8777609E-07 Resid phdelay (usec) -1.96072E-06 +/- 6.5E-07
 Delay rate (us/s) 6.07653978349E-02 Apriori rate (us/s) 6.07591579364E-02 Resid rate (us/s) 6.23990E-06 +/- 7.5E-09
 Total phase (deg) 178.5 Apriori accel (us/s/s) -6.73245522055E-06 Resid phase (deg) -60.8 +/- 20.1

RMS Theor. Amplitude 0.193 +/- 0.034 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 50.4 48.3 Search (1024X32) 0.168 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 63.6 84.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 26.0 28.5 Inc. seg. avg. 0.185 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 50.4 49.7 Inc. frq. avg. 0.184 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 4.0 el 30.6 pa -7.6 P: az 359.9 el 16.9 pa -0.0 u,v (fr/asec) -1023.006 -909.984 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//BP..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//BP.W.113.3MP15Q

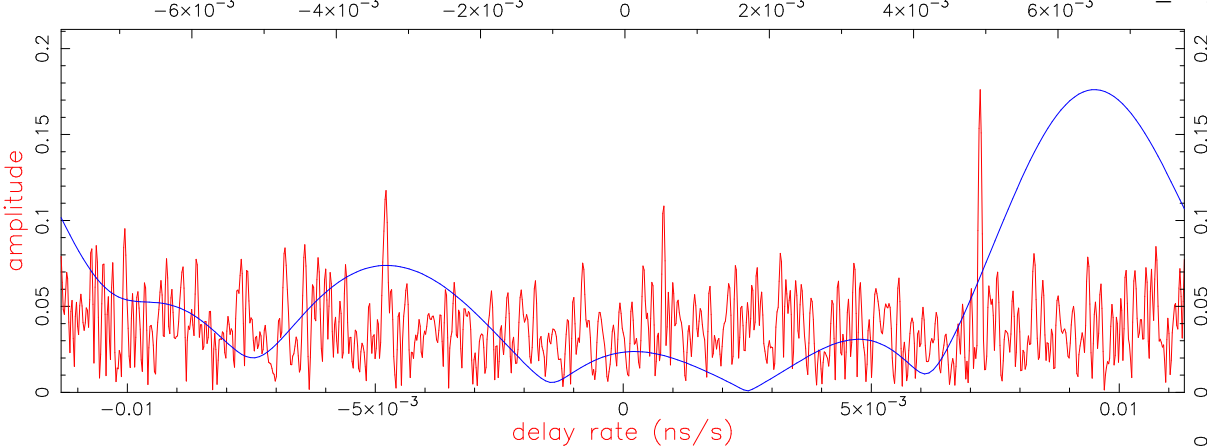
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, Bp

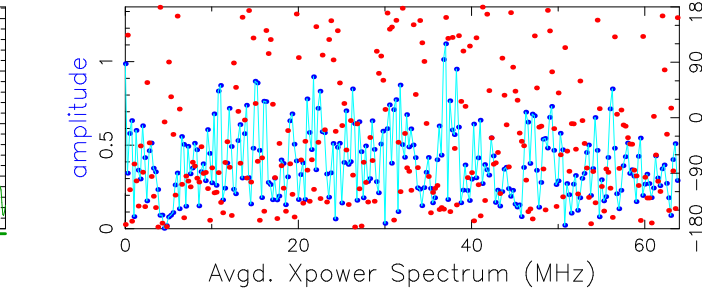
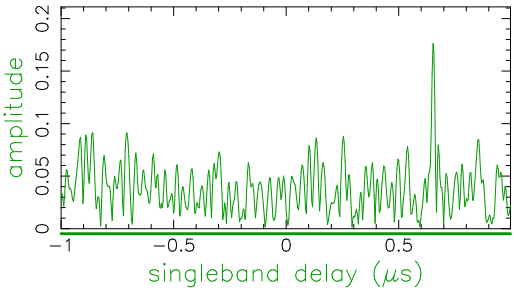
EFLSBERG - VLBA_PT, fgroup W, pol RR

multiband delay (μ s)



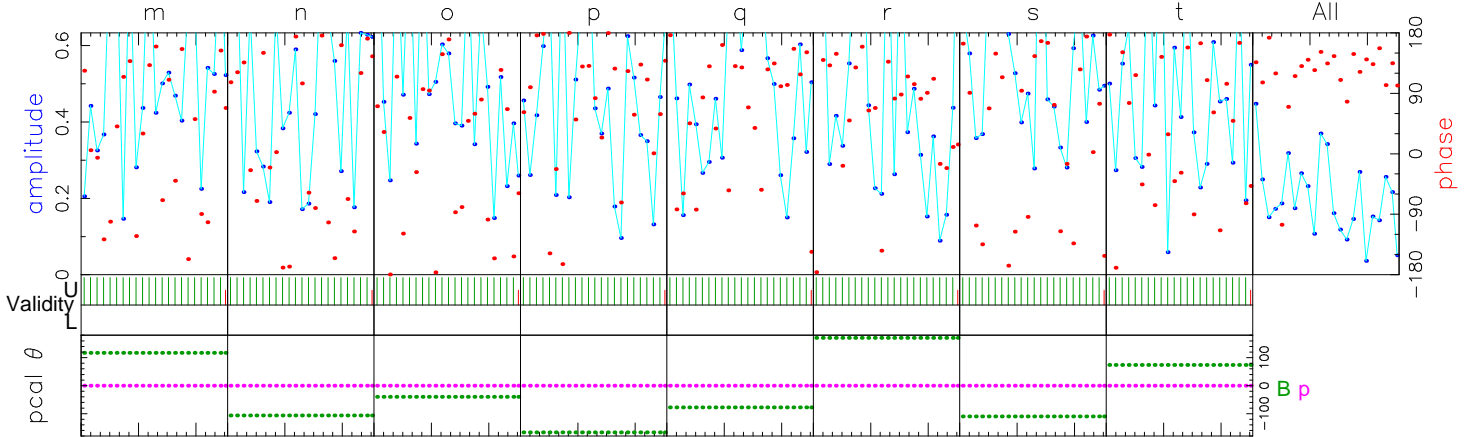
Fringe quality 0

SNR 6.0
 Int time 149.967
 Amp 0.211
 Phase 129.3
 PFD 2.9e-01
 Delays (us)
 SBD 0.653482
 MBD 0.006520
 Fringe rate (Hz) 0.620816
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105532
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	132.5	-177.7	98.9	129.1	111.9	112.0	153.3	136.2	Phase	129.3
	0.1	0.2	0.2	0.3	0.2	0.4	0.3	0.1	Ampl.	0.2
	481.5	16.8	348.1	424.6	407.4	421.0	173.6	225.2	Sbd box	424.3
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	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	118:0	-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	
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	
									Tracks	
Group delay (usec) (SBD)	-2.03137264733E+03					-2.03201979224E+03			Resid mbdelay (usec)	6.51991E-03 +/- 1.8E-04
Sband delay (usec)	-2.03136631049E+03					-4.1110146E+01			Resid sbdelay (usec)	6.53482E-01 +/- 1.4E-03
Phase delay (usec)	-2.03201978807E+03					-5.6823600E-07			Resid phdelay (usec)	4.16813E-06 +/- 6.2E-07
Delay rate (us/s)	4.89309692949E-01					4.89302485894E-01			Resid rate (us/s)	7.20705E-06 +/- 7.2E-09
Total phase (deg)		-196.1				3.26460385805E-05			Resid phase (deg)	129.3 +/- 19.3
	RMS	Theor.	Amplitude	0.211 +/- 0.035					Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	35.5	46.2	Search (1024X32)	0.171					Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	57.6	80.6	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	28.8	27.2	Inc. seg. avg.	0.184					Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.011 0.011
amp/frq (%)	41.9	47.5	Inc. frq. avg.	0.206					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
B: az 4.0 el 30.6 pa -7.6			p: az 335.3 el 37.1 pa 90.7			u, v (fr/asec) -8032.341 7708.670				simultaneous interpolator
Control file: cf_1234_gmva			Input file: /Exps/c241a/v2/3mm/1234/No0901//Bp..3MP15Q			Output file: /Exps/c241a/v2/3mm/1234/No0901//Bp.W.118.3MP15Q				

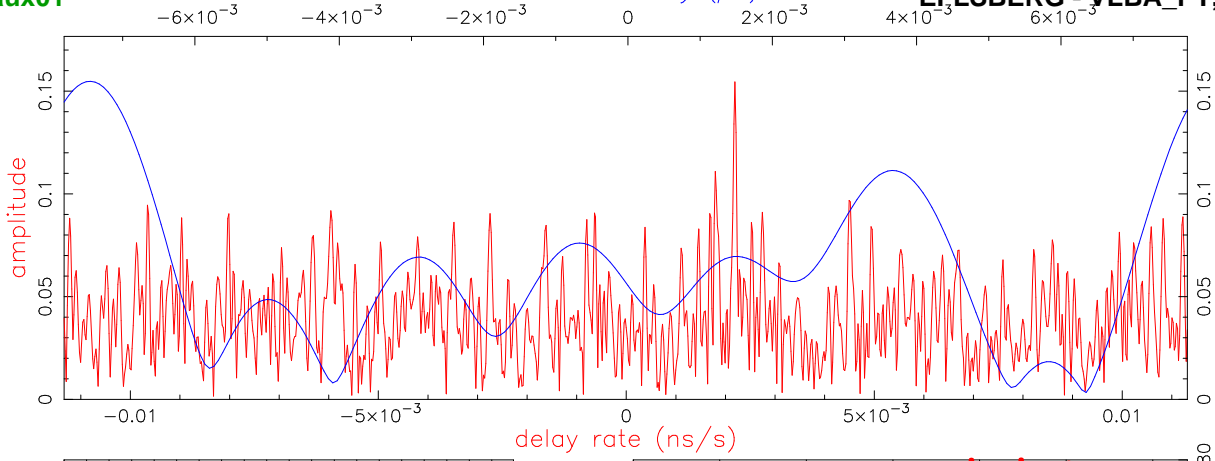
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, Bp

EFLSBERG - VLBA_PT, fgroup W, pol LR

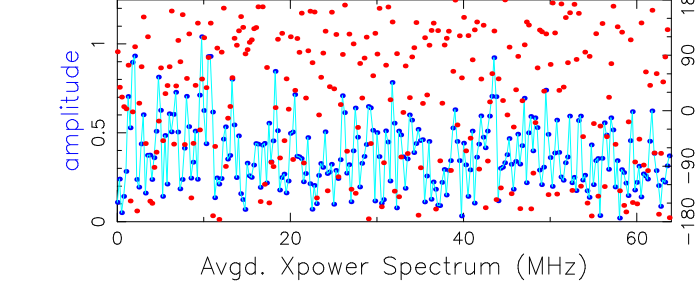
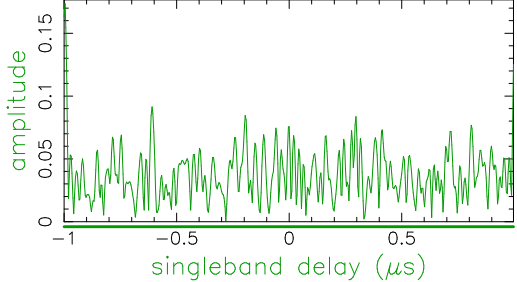
multiband delay (μ s)



Fringe quality 0

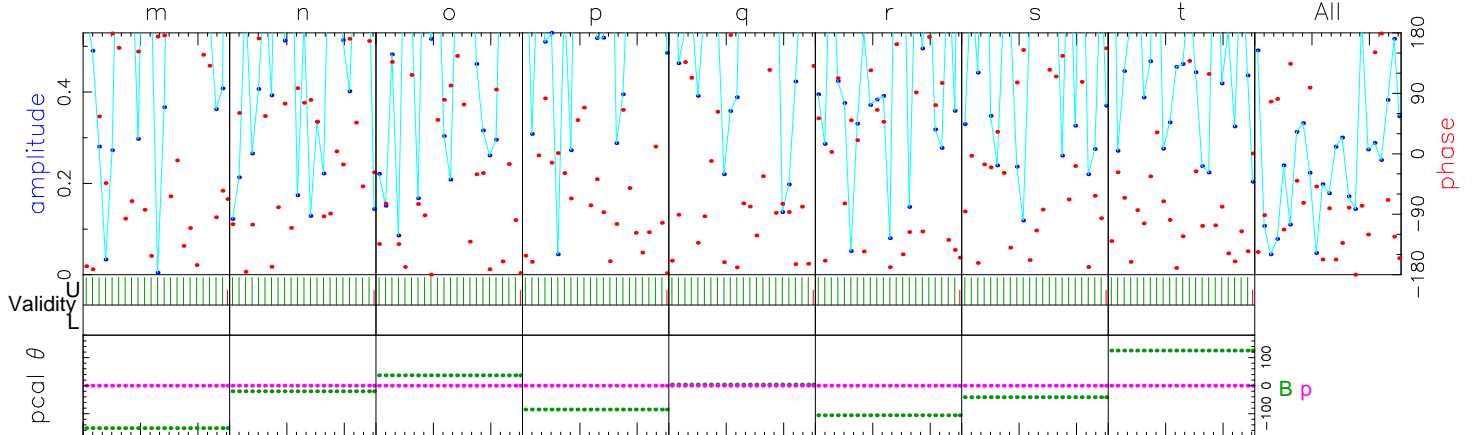
SNR 5.8
 Int time 149.967
 Amp 0.177
 Phase -120.9
 PFD 5.2e-01
 Delays (us)
 SBD -0.996679
 MBD -0.007517
 Fringe rate (Hz) 0.188797
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build 2025:007:141222
 2025:041:105535
 2024:113:095956
 RA & Dec (J2000) 18h06m50.680649s +69°49'28.108492"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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		
	-124.4	-68.1	-164.7	-73.7	-128.2	168.5	-84.8	-108.6	Phase	-120.9		
	0.3	0.0	0.2	0.2	0.3	0.1	0.1	0.3	Ampl.	0.2		
	152.4	440.7	314.7	17.2	1.5	65.0	179.9	324.8	Sbd box	1.9		
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	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	-151:0	-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			
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			
									Tracks			
Group delay (usec) (SBD)	-2.03301168433E+03		Apriori delay (usec)		-2.03201979224E+03		Resid mbdelay (usec)		-7.51709E-03	+/- 1.9E-04		
Sband delay (usec)	-2.03301647149E+03		Apriori clock (usec)		-4.1110146E+01		Resid sbdelay (usec)		-9.96679E-01	+/- 1.5E-03		
Phase delay (usec)	-2.03201979614E+03		Apriori clockrate (us/s)		-5.6823600E-07		Resid phdelay (usec)		-3.89753E-06	+/- 6.3E-07		
Delay rate (us/s)	4.89304677640E-01		Apriori rate (us/s)		4.89302485894E-01		Resid rate (us/s)		2.19175E-06	+/- 7.3E-09		
Total phase (deg)			Apriori accel (us/s/s)		3.26460385805E-05		Resid phase (deg)		-120.9	+/- 19.7		
	RMS	Theor.	Amplitude	0.177 +/- 0.030		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
ph/seg (deg)	74.1	47.2	Search (1024X32)	0.171		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000		
amp/seg (%)	92.5	82.4	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	47.3	27.8	Inc. seg. avg.	0.192		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.011	0.011		
amp/frq (%)	49.5	48.6	Inc. frq. avg.	0.168		Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00
B: az 4.0 el 30.6 pa -7.6	p: az 335.3 el 37.1 pa 90.7		u,v (fr/asec) -8032.341 7708.670						simultaneous interpolator			
Control file: cf_1234_gmva	Input file: /Exps/c241a/v2/3mm/1234/No0901//Bp..3MP15Q		Output file: /Exps/c241a/v2/3mm/1234/No0901//Bp.W.126.3MP15Q									

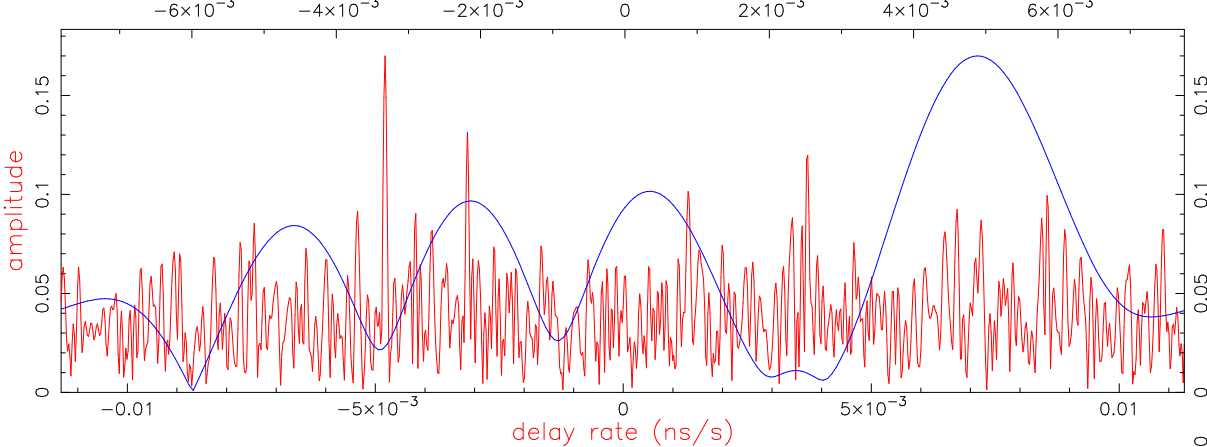
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, BP

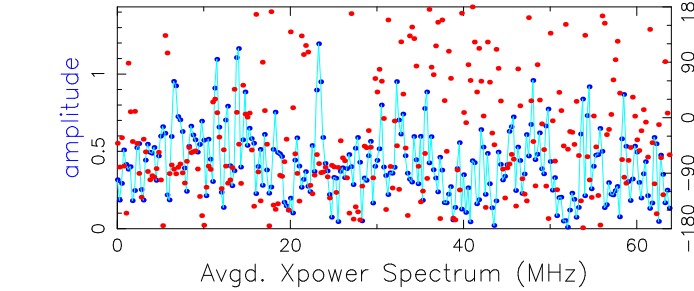
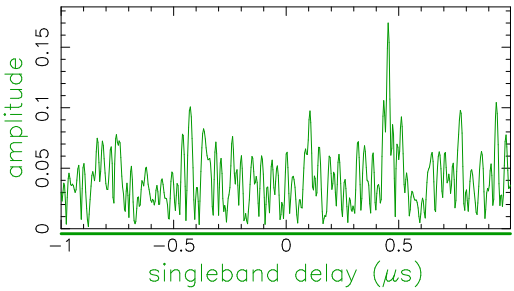
EFLSBERG - PICOVEL, fgroup W, pol RL

multiband delay (μ s)



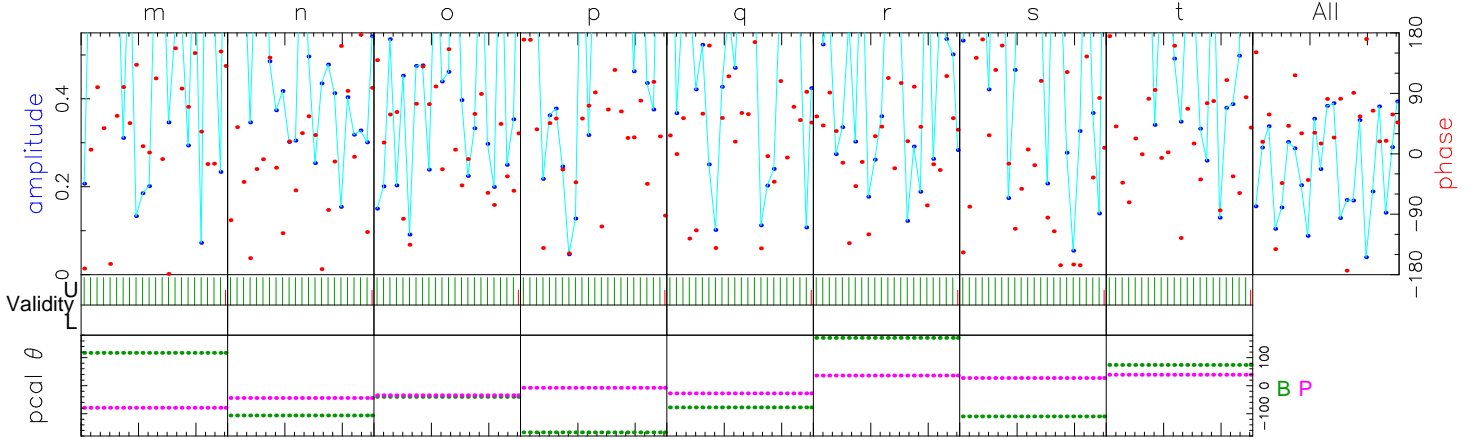
Fringe quality 0

SNR 5.7
 Int time 149.974
 Amp 0.183
 Phase 49.0
 PFD 7.8e-01
 Delays (us)
 SBD 0.453440
 MBD 0.004899
 Fringe rate (Hz)
 -0.414333
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105536
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
B	0	0	0	0	0	0	0	0		
P	0	0	0	0	0	0	0	0		
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:P	118:-79	-106:-44	-40:-34	-167:-8	-77:-28	171:36	-110:27	74:39		
B	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	4.59917308856E+03	Apriori delay (usec)	4.59871506460E+03	Resid mbdelay (usec)	4.89896E-03	+/-	1.9E-04
Sband delay (usec)	4.59916850435E+03	Apriori clock (usec)	-3.4391655E+01	Resid sbdelay (usec)	4.53440E-01	+/-	1.5E-03
Phase delay (usec)	4.59871506618E+03	Apriori clockrate (us/s)	-7.8777609E-07	Resid phdelay (usec)	1.57893E-06	+/-	6.5E-07
Delay rate (us/s)	6.07543479355E-02	Apriori rate (us/s)	6.07591579364E-02	Resid rate (us/s)	-4.81000E-06	+/-	7.5E-09
Total phase (deg)	288.2	Apriori accel (us/s/s)	-6.73245522055E-06	Resid phase (deg)	49.0	+/-	20.1

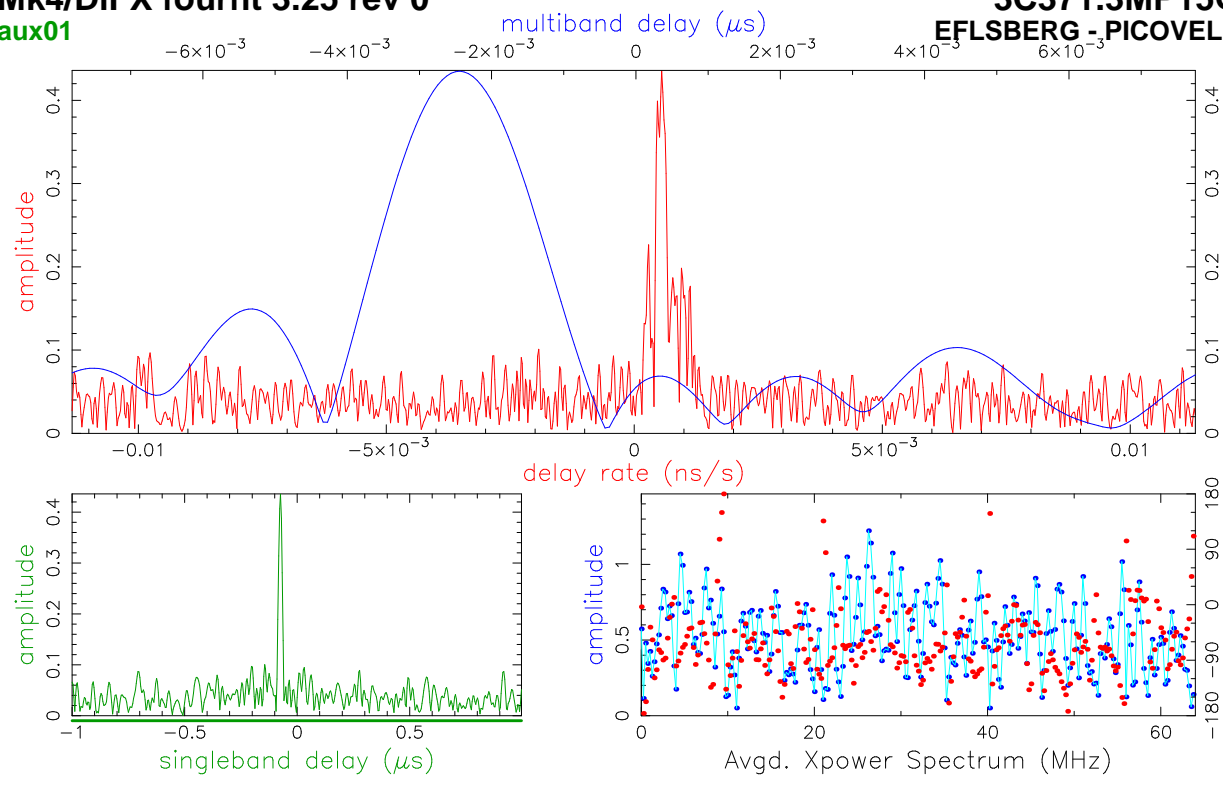
ph/seg (deg)	67.7	Theor.	48.2	Amplitude	0.183 +/- 0.032	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	74.2	Search (1024X32)	0.166	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	63.5	Inc. seg. avg.	0.190	Inc. frq. avg.	0.207	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	39.5	Inc. frq. avg.	0.207			Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
B: az 4.0 el 30.6 pa -7.6		P: az 359.9 el 16.9 pa -0.0		u,v (fr/asec)	-1023.006 -909.984	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/c241a/v2/3mm/1234/No0901//BP..3MP15Q		Output file: /Exps/c241a/v2/3mm/1234/No0901//BP.W.130.3MP15Q						simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, BP

EFLSBERG - PICOVEL, fgroup W, pol LL

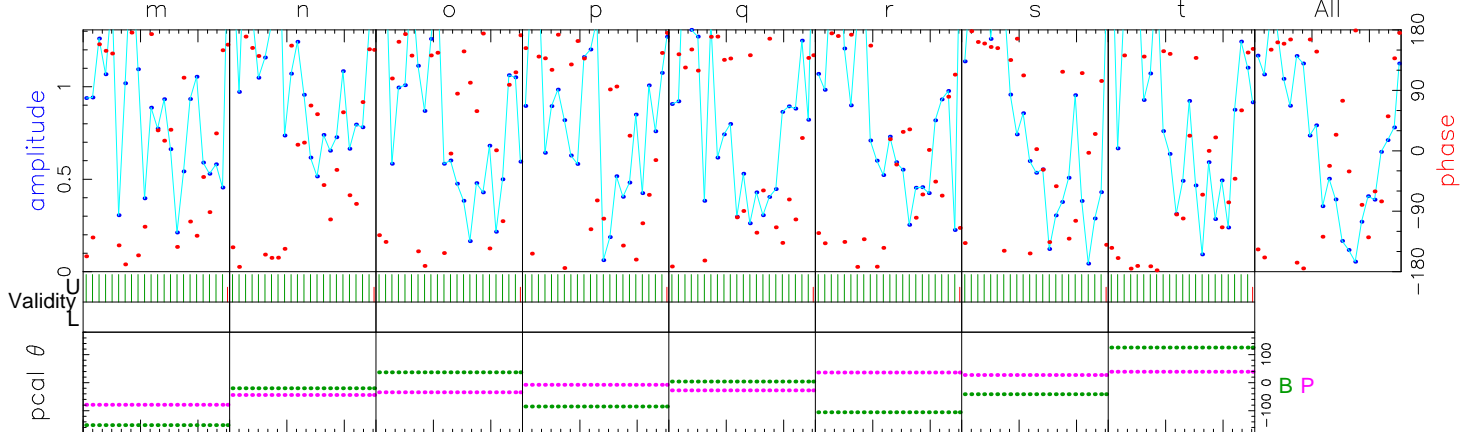


Fringe quality 9

SNR 14.6
 Int time 149.974
 Amp 0.436
 Phase 178.3
 PFD 1.1e-39
 Delays (us)
 SBD -0.074696
 MBD -0.002459
 Fringe rate (Hz) 0.048087
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105527
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	
	-175.9	-179.5	166.8	177.0	163.9	-148.2	174.8	175.1	Phase	178.3	
	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.4	Ampl.	0.4	
	236.3	237.7	238.2	238.0	238.7	238.1	238.5	237.3	Sbd box	237.9	
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	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		
									Tracks		
Group delay (usec) (SBD)	4.59863448032E+03		Apriori delay (usec)		4.59871506460E+03		Resid mbdelay (usec)		-2.45928E-03	+/- 7.4E-05	
Sband delay (usec)	4.59864036835E+03		Apriori clock (usec)		-3.4391655E+01		Resid sbdelay (usec)		-7.46963E-02	+/- 5.9E-04	
Phase delay (usec)	4.59871507035E+03		Apriori clockrate (us/s)		-7.8777609E-07		Resid phdelay (usec)		5.75089E-06	+/- 2.5E-07	
Delay rate (us/s)	6.07597161735E-02		Apriori rate (us/s)		6.07591579364E-02		Resid rate (us/s)		5.88237E-07	+/- 2.9E-09	
Total phase (deg)			Apriori accel (us/s/s)		-6.73245522055E-06		Resid phase (deg)		178.3	+/- 7.9	
	RMS	Theor.	Amplitude	0.436 +/- 0.030		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	80.8	18.8	Search (1024X32)	0.432		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000	
amp/seg (%)	111.2	32.9	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	15.9	11.1	Inc. seg. avg.	0.678		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011 0.011	
amp/frq (%)	10.8	19.4	Inc. frq. avg.	0.439		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
B: az 4.0 el 30.6 pa -7.6	P: az 359.9 el 16.9 pa -0.0		u, v (fr/asec)		-1023.006 -909.984				simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/c241a/v2/3mm/1234/No0901//BP..3MP15Q		Output file: /Exps/c241a/v2/3mm/1234/No0901//BP.W.97.3MP15Q								

Mk4/DiFX fourfit 3.25 rev 0

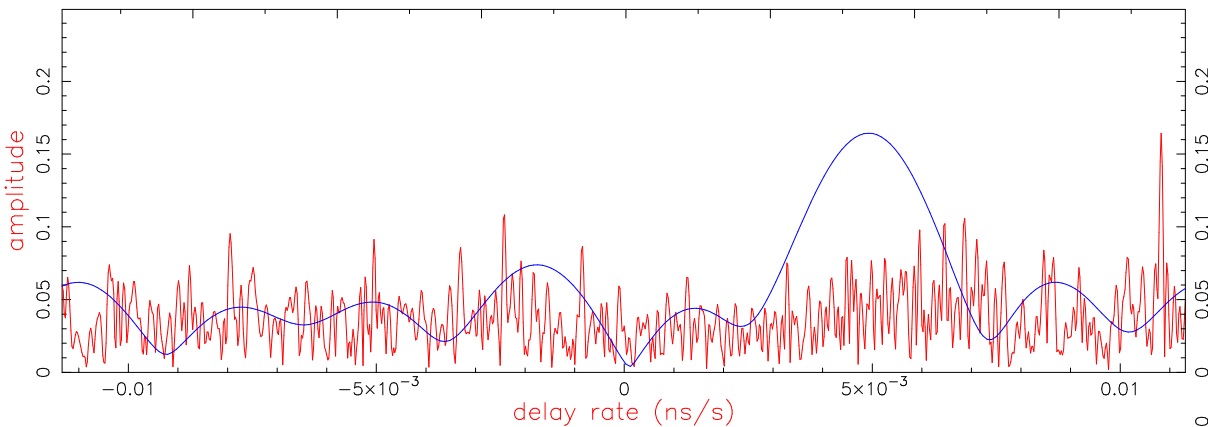
aux01

3C371.3MP15Q, No0901, Bu

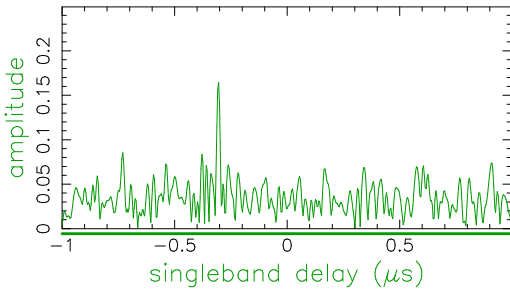
EFLSBERG - KVNUS, fgroup W, pol RL

multiband delay (μ s)

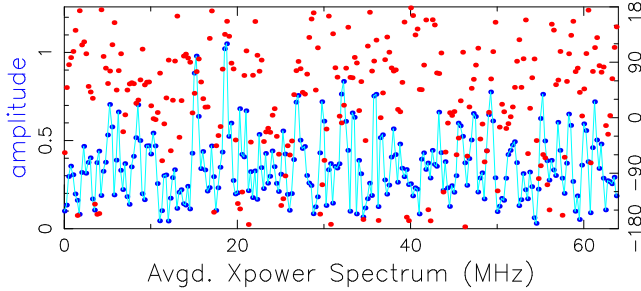
Fringe quality 0



SNR 5.5
 Int time 149.836
 Amp 0.249
 Phase 109.9
 PFD 9.7e-01
 Delays (us)
 SBD -0.305698
 MBD 0.003342
 Fringe rate (Hz) 0.934553
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

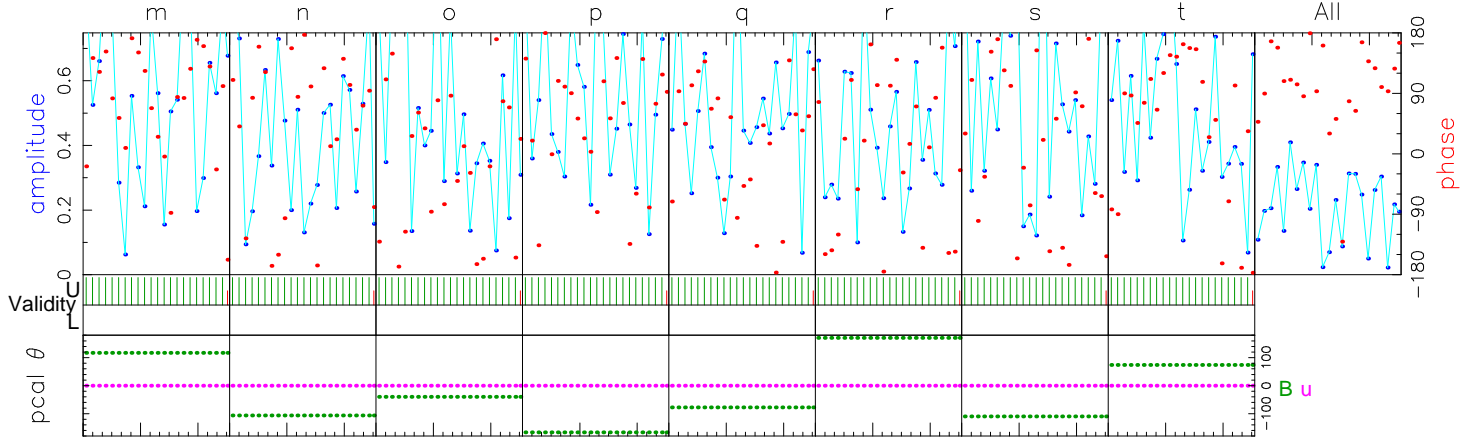


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105529
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	105.0	111.3	152.6	106.5	83.7	106.0	131.4	114.3	Phase	109.9
	0.4	0.3	0.1	0.3	0.2	0.2	0.1	0.3	Ampl.	0.2
	22.0	165.7	231.8	165.1	84.0	269.0	153.7	153.7	Sbd box	178.7
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
u	0	0	60000	0	0	0	4000	0	PC freqs	
B:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:u	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	
u	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec) (SBD)	-4.89165019085E+03		Apriori delay (usec)		-4.89134103290E+03		Resid mbdelay (usec)		3.34205E-03	+/- 2.0E-04
Sband delay (usec)	-4.89164673040E+03		Apriori clock (usec)		-3.6738331E+01		Resid sbdelay (usec)		-3.05698E-01	+/- 1.6E-03
Phase delay (usec)	-4.89134102935E+03		Apriori clockrate (us/s)		-3.5230000E-07		Resid phdelay (usec)		3.54555E-06	+/- 6.7E-07
Delay rate (us/s)	-2.59435755866E-01		Apriori rate (us/s)		-2.59446605099E-01		Resid rate (us/s)		1.08492E-05	+/- 7.7E-09
Total phase (deg)			Apriori accel (us/s/s)		4.60098886647E-05		Resid phase (deg)		109.9	+/- 20.7
RMS	48.0	49.6	49.6	49.6	49.6	49.6	49.6	49.6	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	48.0	49.6	49.6	49.6	49.6	49.6	49.6	49.6	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	72.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	22.5	29.2	29.2	29.2	29.2	29.2	29.2	29.2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.011 0.011
amp/frq (%)	47.2	51.0	51.0	51.0	51.0	51.0	51.0	51.0	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
B: az 4.0 el 30.6 pa -7.6	u: az 22.1 el 47.3 pa -118.3		u, v (fr/asec) 4432.568 10363.488						simultaneous interpolator	
Control file: cf_1234_gmva	Input file: /Exps/c241a/v2/3mm/1234/No0901//Bu..3MP15Q		Output file: /Exps/c241a/v2/3mm/1234/No0901//Bu.W.104.3MP15Q							

Mk4/DiFX fourfit 3.25 rev 0

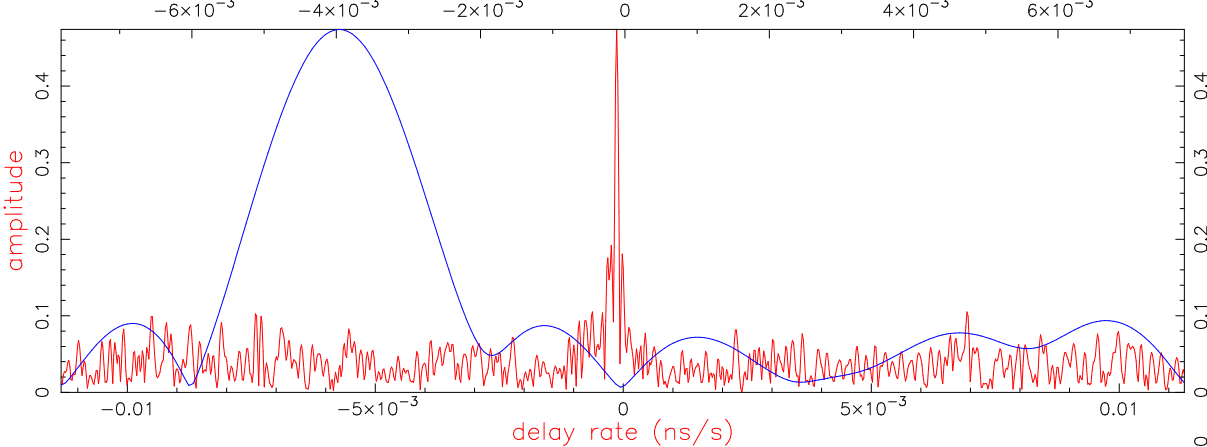
aux01

3C371.3MP15Q, No0901, Bu

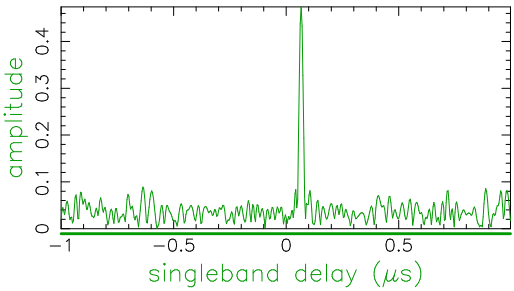
EFLSBERG - KVNUS, fgroup W, pol LL

multiband delay (μ s)

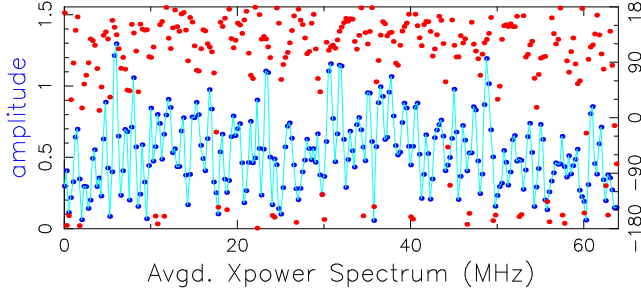
Fringe quality 9



SNR 15.9
 Int time 149.836
 Amp 0.474
 Phase -137.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.066266
 MBD -0.003962
 Fringe rate (Hz)
 -0.012145
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

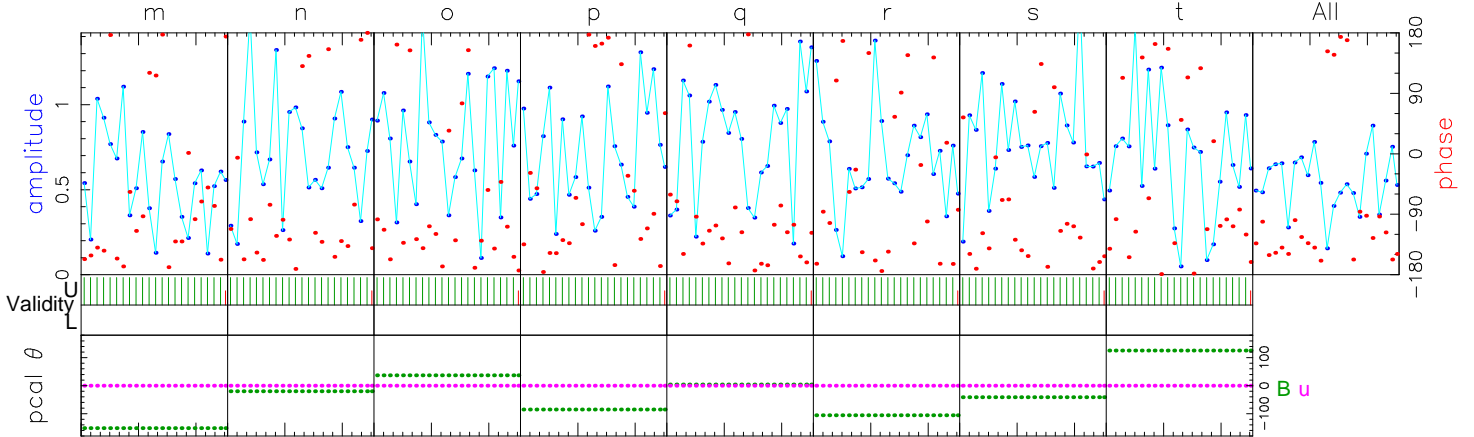


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105517
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-141.5	-140.4	-137.2	-134.0	-130.6	-146.2	-129.8	-148.1	Phase	-137.6
	0.4	0.6	0.5	0.5	0.7	0.3	0.5	0.4	Ampl.	0.5
	272.3	274.0	274.4	274.5	274.6	274.1	274.2	273.4	Sbd box	274.0
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
u	0	0	60000	0	0	0	4000	0	PC freqs	
B:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:u	-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	
u	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-4.89128249473E+03	Apriori delay (usec)	-4.89134103290E+03	Resid mbdelay (usec)	-3.96184E-03	+/-	6.8E-05
Sband delay (usec)	-4.89127476640E+03	Apriori clock (usec)	-3.6738331E+01	Resid sbdelay (usec)	6.62665E-02	+/-	5.4E-04
Phase delay (usec)	-4.89134103734E+03	Apriori clockrate (us/s)	-3.5230000E-07	Resid phdelay (usec)	-4.43698E-06	+/-	2.3E-07
Delay rate (us/s)	-2.59446746094E-01	Apriori rate (us/s)	-2.59446605099E-01	Resid rate (us/s)	-1.40994E-07	+/-	2.7E-09
Total phase (deg)	-344.2	Apriori accel (us/s/s)	4.60098886647E-05	Resid phase (deg)	-137.6	+/-	7.2

ph/seg (deg)	RMS 35.1	Theor. 17.3	Amplitude Search (1024X32)	0.474 +/- 0.030	0.463	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	38.9	30.2	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)	7.4	10.2	Inc. seg. avg.	0.525		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	dr window (ns/s)	-0.011	0.011
amp/frq (%)	20.6	17.8	Inc. frq. avg.	0.469		Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 4.0 el 30.6 pa -7.6 u: az 22.1 el 47.3 pa -118.3 u,v (fr/asec) 4432.568 10363.488 simultaneous interpolator

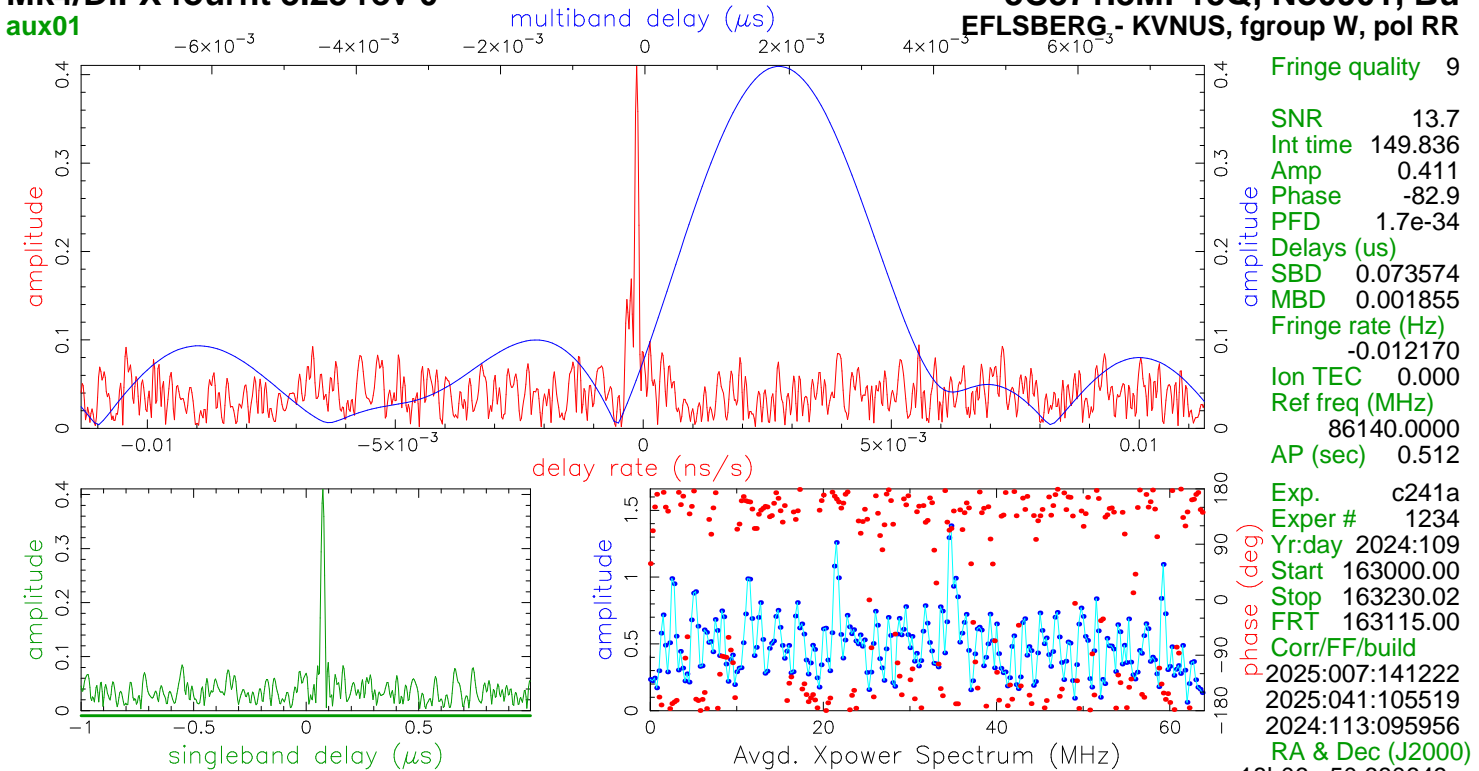
Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bu..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bu.W.71.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, Bu

EFLSBERG₃-KVNU, fgroup W, pol RR



Fringe quality 9

SNR 13.7

Int time 149.836

Amp 0.411

Phase -82.9

PFD 1.7e-34

Delays (us)

SBD 0.073574

MBD 0.001855

Fringe rate (Hz)

-0.012170

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c241a

Exper # 1234

Yr:day 2024:109

Start 163000.00

Stop 163230.02

FRT 163115.00

Corr/FF/build

2025:007:141222

2025:041:105519

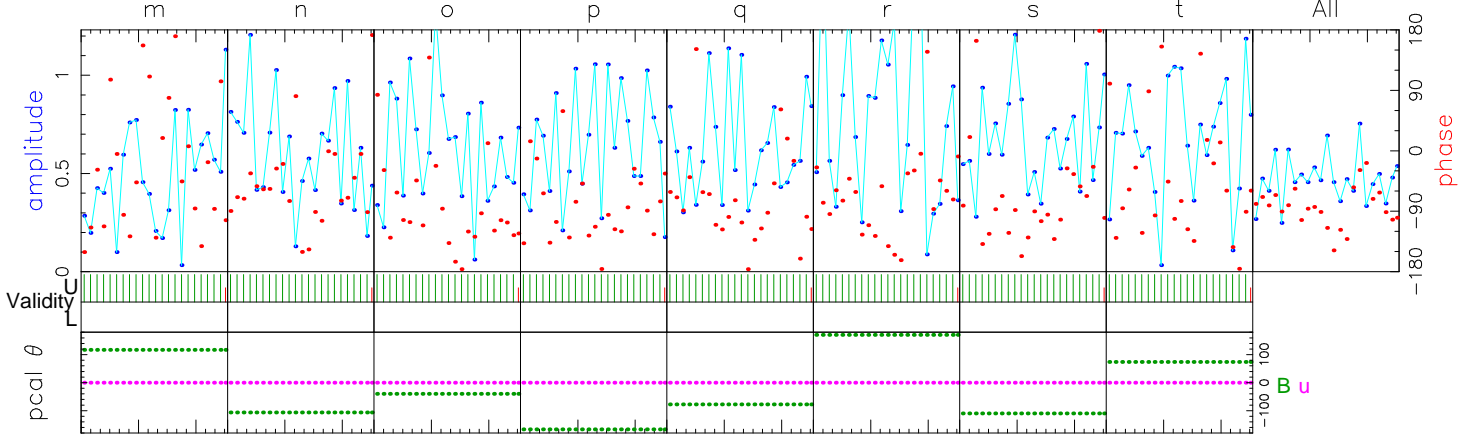
2024:113:095956

RA & Dec (J2000)

18h06m50.680649s

+69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-101.2	-57.6	-101.3	-92.3	-85.8	-69.8	-96.1	-74.0	Phase	-82.9
	0.1	0.5	0.4	0.5	0.5	0.6	0.5	0.4	Ampl.	0.4
	72.4	275.3	277.1	275.7	276.6	276.6	276.2	274.3	Sbd box	275.8
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
u	0	0	60000	0	0	0	4000	0	PC freqs	
B:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:u	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	
u	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-4.89126105308E+03	Apriori delay (usec)	-4.89134103290E+03	Resid mbdelay (usec)	1.85482E-03	+/-	7.9E-05
Sband delay (usec)	-4.89126745865E+03	Apriori clock (usec)	-3.6738331E+01	Resid sbdelay (usec)	7.35743E-02	+/-	6.3E-04
Phase delay (usec)	-4.89134103557E+03	Apriori clockrate (us/s)	-3.5230000E-07	Resid phdelay (usec)	-2.67391E-06	+/-	2.7E-07
Delay rate (us/s)	-2.59446746384E-01	Apriori rate (us/s)	-2.59446605099E-01	Resid rate (us/s)	-1.41285E-07	+/-	3.1E-09
Total phase (deg)		Apriori accel (us/s/s)	4.60098886647E-05	Resid phase (deg)	-82.9	+/-	8.3

ph/seg (deg)	RMS 29.6	Theor. 20.0	Amplitude Search (1024X32)	0.411 +/- 0.030	0.400	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	32.7	34.9	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	17.5	11.8	Inc. seg. avg.	0.443	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256 t_cohere infinite	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	30.7	20.6	Inc. frq. avg.	0.415	Data rate(Mb/s): 2048		ion window (TEC)	0.00	0.00	

B: az 4.0 el 30.6 pa -7.6 u: az 22.1 el 47.3 pa -118.3 u,v (fr/asec) 4432.568 10363.488 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//Bu...3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bu.W.83.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

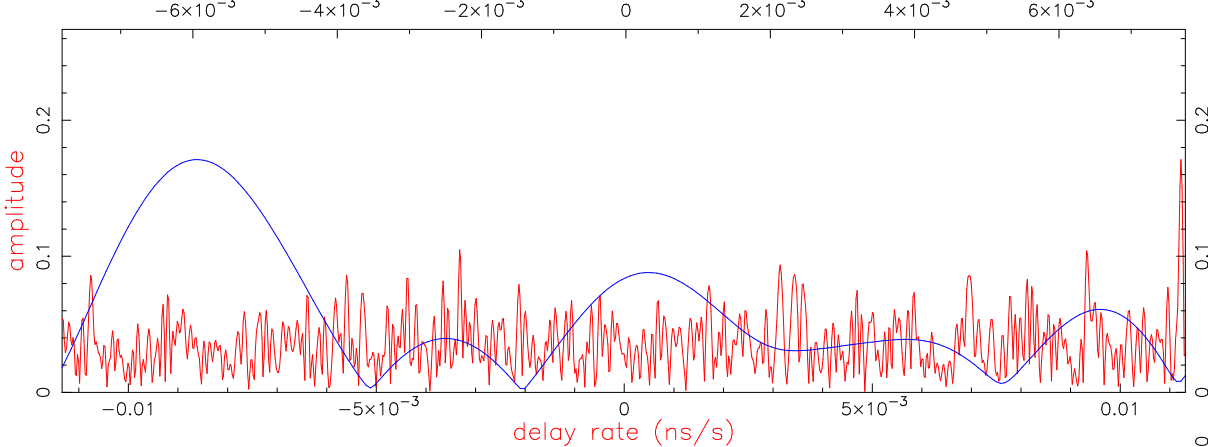
aux01

3C371.3MP15Q, No0901, Bu

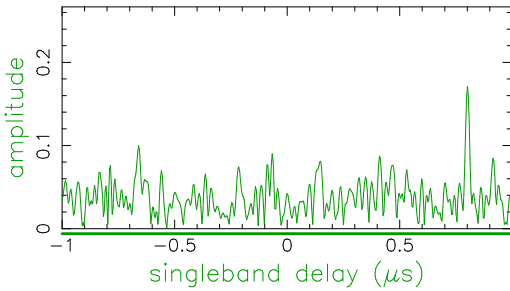
EFLSBERG - KVNUS, fgroup W, pol LR

multiband delay (μ s)

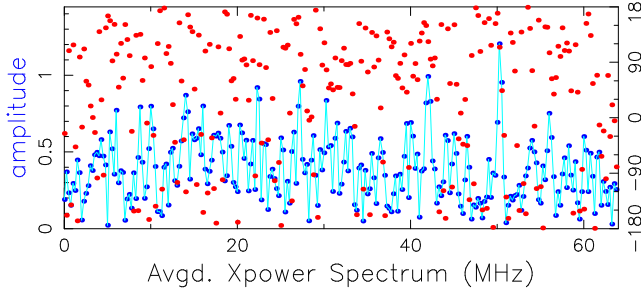
Fringe quality 0



SNR 5.7
 Int time 149.836
 Amp 0.267
 Phase 49.9
 PFD 7.2e-01
 Delays (us)
 SBD 0.800965
 MBD -0.005938
 Fringe rate (Hz)
 0.969137
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

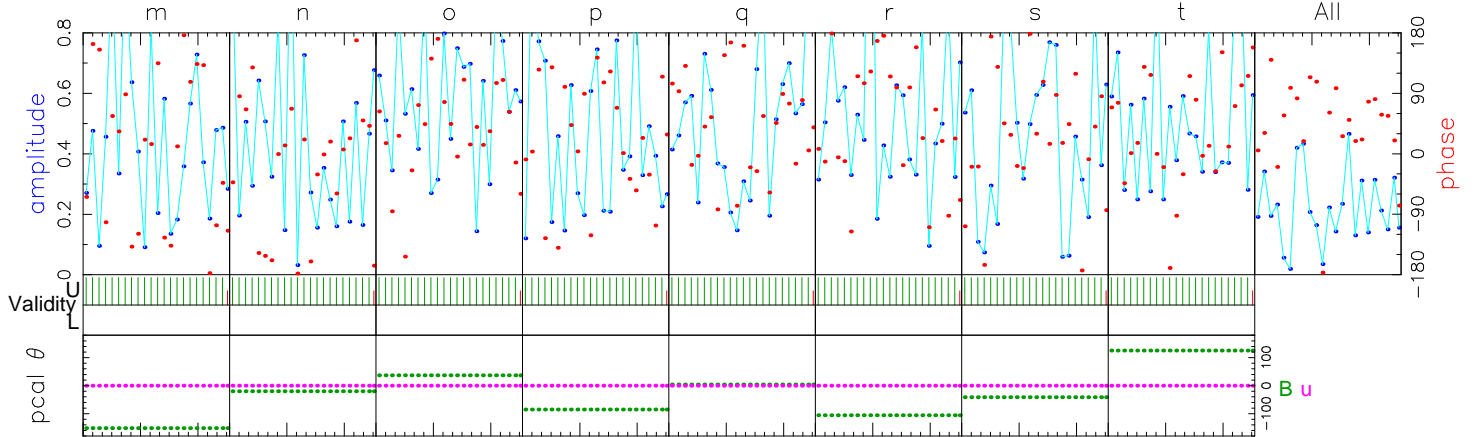


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105524
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
B	0	0	0	0	0	0	0	0		
u	0	0	60000	0	0	0	4000	0		
B:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:u	-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		
u	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	-4.89053447068E+03	Apriori delay (usec)	-4.89134103290E+03	Resid mbdelay (usec)	-5.93778E-03	+/-	1.9E-04
Sband delay (usec)	-4.89054006740E+03	Apriori clock (usec)	-3.6738331E+01	Resid sbdelay (usec)	8.00965E-01	+/-	1.5E-03
Phase delay (usec)	-4.89134103129E+03	Apriori clockrate (us/s)	-3.5230000E-07	Resid phdelay (usec)	1.60879E-06	+/-	6.5E-07
Delay rate (us/s)	-2.59435354382E-01	Apriori rate (us/s)	-2.59446605099E-01	Resid rate (us/s)	1.12507E-05	+/-	7.4E-09
Total phase (deg)	-156.7	Apriori accel (us/s/s)	4.60098886647E-05	Resid phase (deg)	49.9	+/-	20.0

ph/seg (deg)	51.9	Theor.	48.0	Amplitude	0.267 +/- 0.047	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	76.2	Search (1024X32)	0.170	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	40.2	Inc. seg. avg.	0.257	Inc. seg. avg.	0.257	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	54.8	Inc. frq. avg.	0.256	Inc. frq. avg.	0.256	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
B: az 4.0 el 30.6 pa -7.6		u: az 22.1 el 47.3 pa -118.3		u,v (fr/asec)	4432.568 10363.488	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/c241a/v2/3mm/1234/No0901//Bu..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//Bu.W.93.3MP15Q

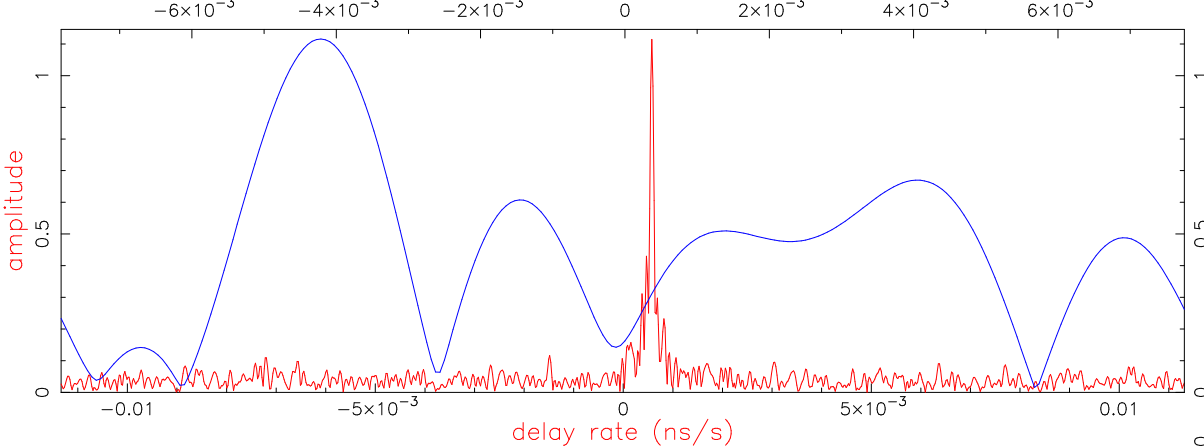
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, BX

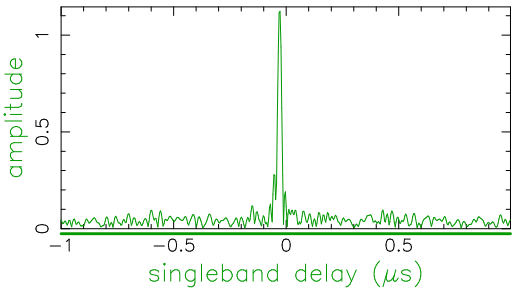
EFLSBERG - ONSALA60, fgroup W, pol LL

multiband delay (μ s)

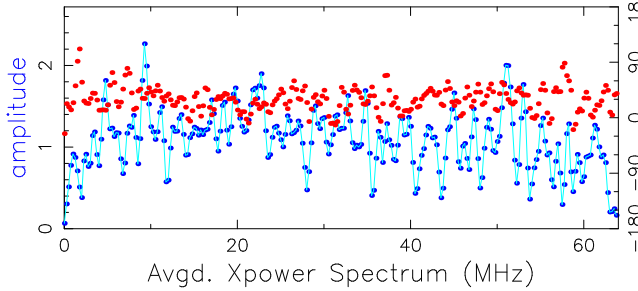


Fringe quality 5

SNR 38.3
 Int time 149.838
 Amp 1.146
 Phase 100.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.029132
 MBD -0.004170
 Fringe rate (Hz)
 0.050007
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

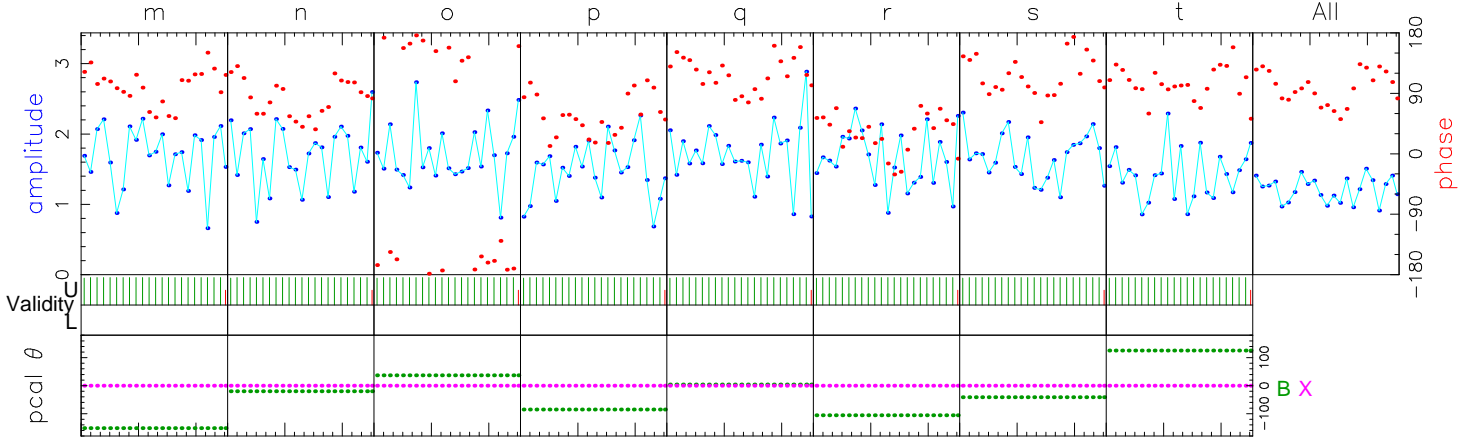


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105529
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
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	-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		
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD) -2.33251660878E+03 Apriori delay (usec) -2.33248118853E+03 Resid mbdelay (usec) -4.17025E-03 +/- 2.8E-05
 Sband delay (usec) -2.33251032078E+03 Apriori clock (usec) -1.4806357E+02 Resid sbdelay (usec) -2.91323E-02 +/- 2.2E-04
 Phase delay (usec) -2.33248118530E+03 Apriori clockrate (us/s) -1.4061621E-02 Resid phdelay (usec) 3.23245E-06 +/- 9.6E-08
 Delay rate (us/s) -1.55097216603E-02 Apriori rate (us/s) -1.55103021915E-02 Resid rate (us/s) 5.80531E-07 +/- 1.1E-09
 Total phase (deg) -108.6 Apriori accel (us/s/s) 4.13379404025E-06 Resid phase (deg) 100.2 +/- 3.0

ph/seg (deg) 24.2 7.2 Search (1024X32) 1.093 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 16.2 12.5 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 4.2 Inc. seg. avg. 1.208 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 29.5 7.4 Inc. frq. avg. 1.463 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 4.0 el 30.6 pa -7.6 X: az 6.5 el 37.7 pa -10.4 u, v (fr/asec) 266.943 664.363 simultaneous interpolator

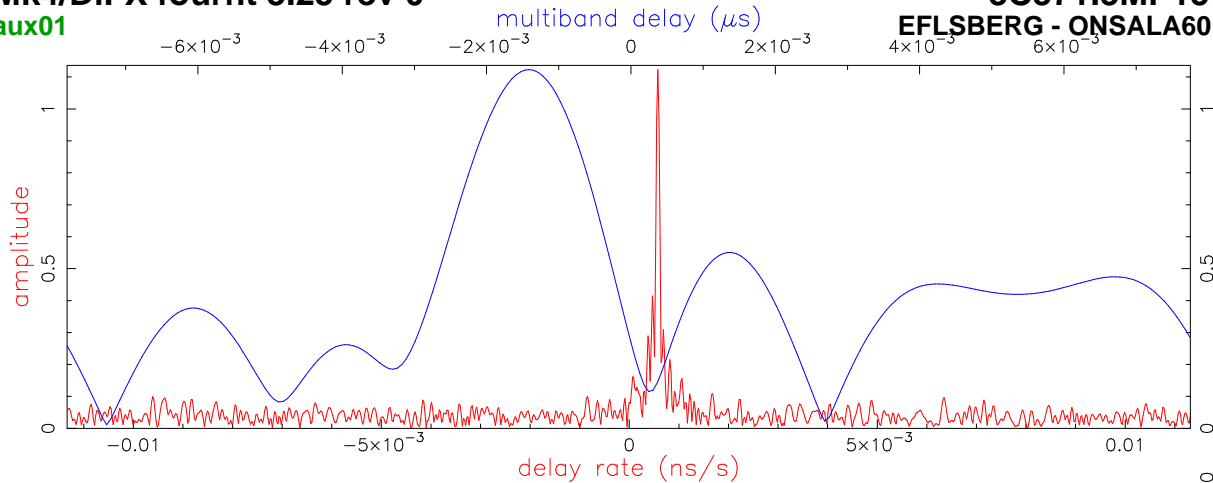
Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//BX..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//BX.W.106.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

aux01

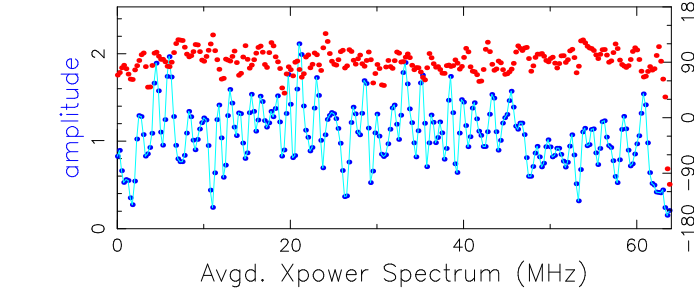
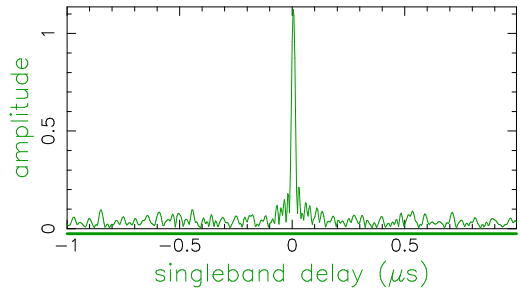
3C371.3MP15Q, No0901, BX

EFLSBERG - ONSALA60, fgroup W, pol RR



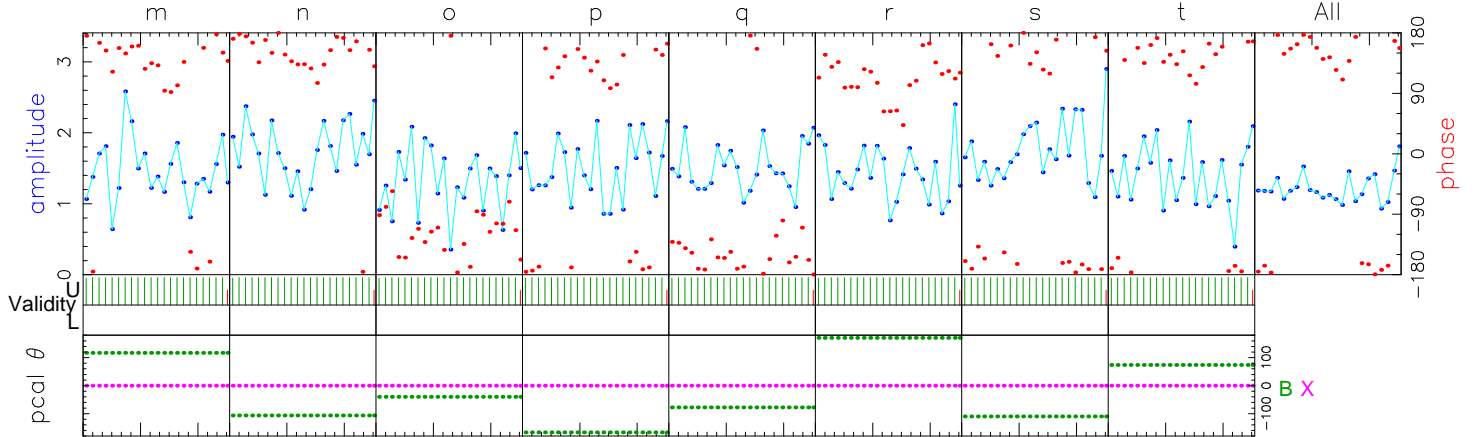
Fringe quality 5

SNR 38.0
 Int time 149.838
 Amp 1.136
 Phase 167.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.005262
 MBD -0.001380
 Fringe rate (Hz)
 0.050153
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105532
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
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)	-2.33248256862E+03	Apriori delay (usec)	-2.33248118853E+03	Resid mbdelay (usec)	-1.38009E-03	+/-	2.9E-05
Sband delay (usec)	-2.33247592628E+03	Apriori clock (usec)	-1.4806357E+02	Resid sbdelay (usec)	5.26225E-03	+/-	2.3E-04
Phase delay (usec)	-2.33248118313E+03	Apriori clockrate (us/s)	-1.4061621E-02	Resid phdelay (usec)	5.39887E-06	+/-	9.7E-08
Delay rate (us/s)	-1.55097199612E-02	Apriori rate (us/s)	-1.55103021915E-02	Resid rate (us/s)	5.82230E-07	+/-	1.1E-09
Total phase (deg)	-41.4	Apriori accel (us/s/s)	4.13379404025E-06	Resid phase (deg)	167.4	+/-	3.0

ph/seg (deg)	23.3	Theor.	7.2	Amplitude	1.136 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	17.7	Search (1024X32)	1.104	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	41.9	Inc. seg. avg.	1.204	Inc. frq. avg.	1.347	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	23.0	Inc. frq. avg.	1.347			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 4.0 el 30.6 pa -7.6 X: az 6.5 el 37.7 pa -10.4 u,v (fr/asec) 266.943 664.363 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901/BX..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901/BX.W.117.3MP15Q

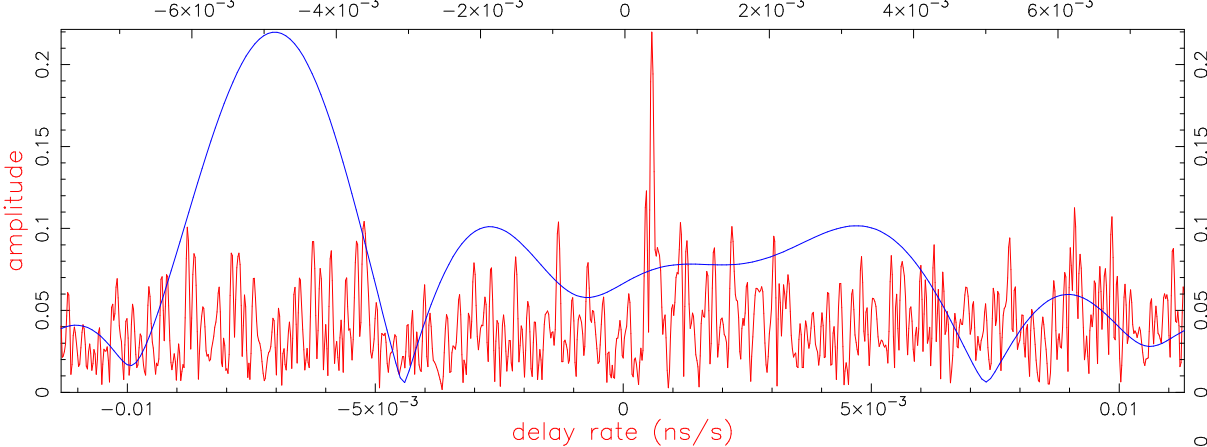
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, BX

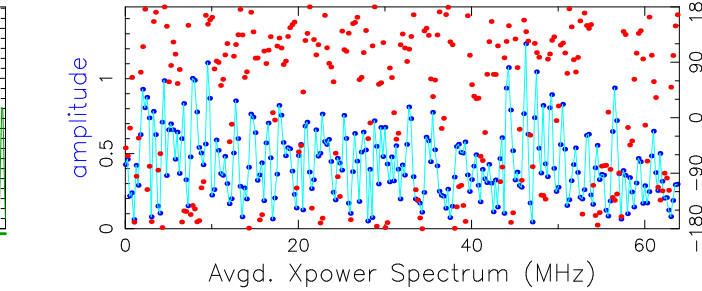
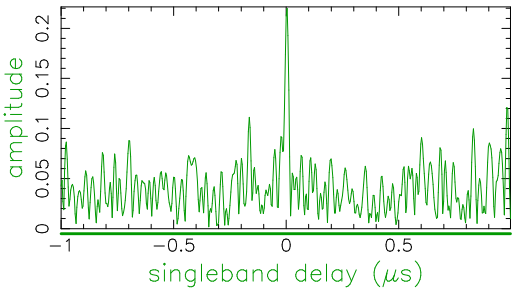
EFLSBERG - ONSALA60, fgroup W, pol LR

multiband delay (μ s)



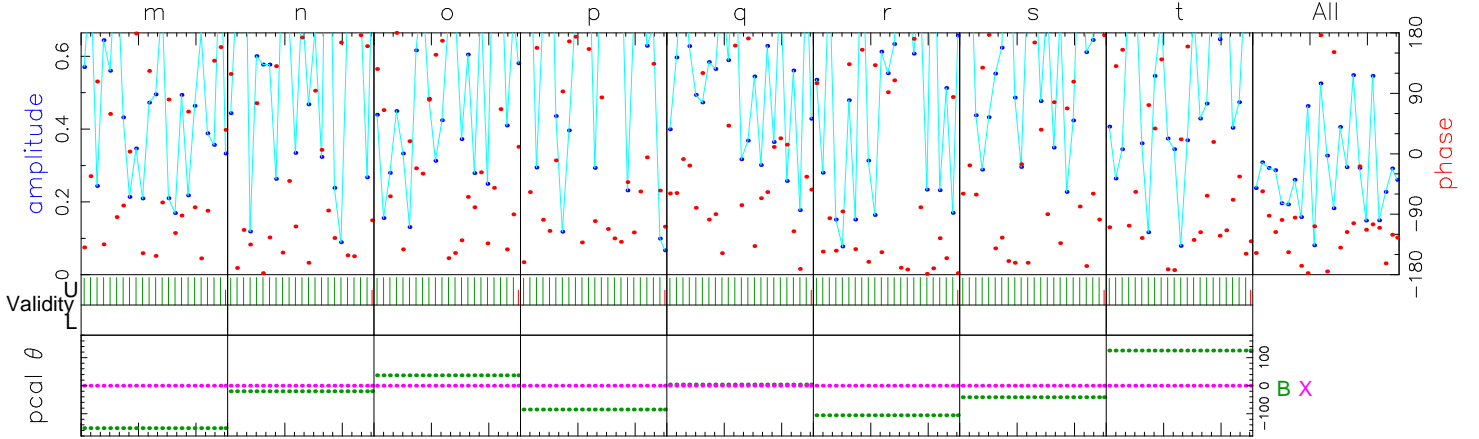
Fringe quality 9

SNR 7.4
 Int time 149.838
 Amp 0.221
 Phase -127.5
 PFD 2.1e-05
 Delays (us)
 SBD 0.002810
 MBD -0.004858
 Fringe rate (Hz)
 0.049621
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105536
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 sec / seg.), time ticks 10 sec

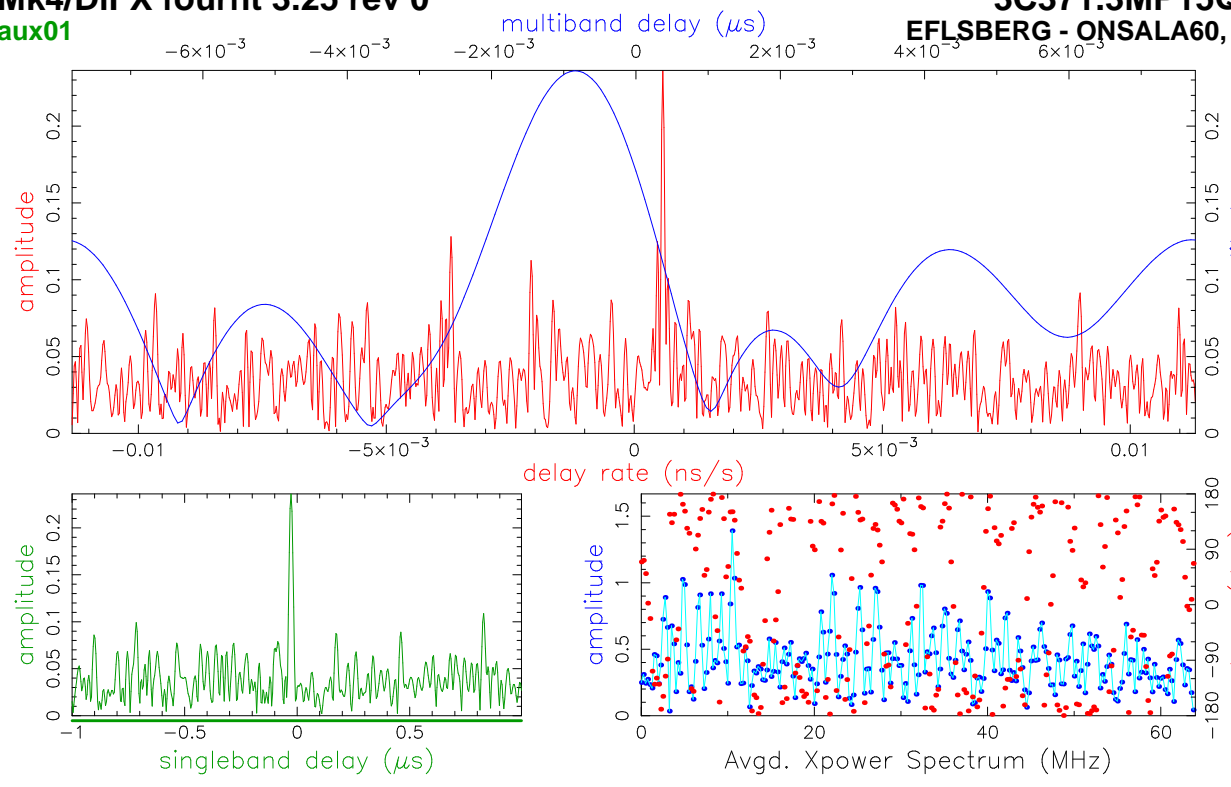


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-124.1	-147.5	-84.2	-126.3	-63.6	-175.7	-121.9	-117.4	Phase	-127.5
	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.2	Ampl.	0.2
	281.2	257.1	373.0	255.9	60.9	257.3	144.3	488.6	Sbd box	257.7
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-2.33248604687E+03	Apriori delay (usec)	-2.33248118853E+03	Resid mbdelay (usec)	-4.85834E-03	+/-	1.5E-04
Sband delay (usec)	-2.33247837903E+03	Apriori clock (usec)	-1.4806357E+02	Resid sbdelay (usec)	2.80950E-03	+/-	1.2E-03
Phase delay (usec)	-2.33248119264E+03	Apriori clockrate (us/s)	-1.4061621E-02	Resid phdelay (usec)	-4.11132E-06	+/-	5.0E-07
Delay rate (us/s)	-1.55097261384E-02	Apriori rate (us/s)	-1.55103021915E-02	Resid rate (us/s)	5.76053E-07	+/-	5.8E-09
Total phase (deg)	-336.3	Apriori accel (us/s/s)	4.13379404025E-06	Resid phase (deg)	-127.5	+/-	15.5

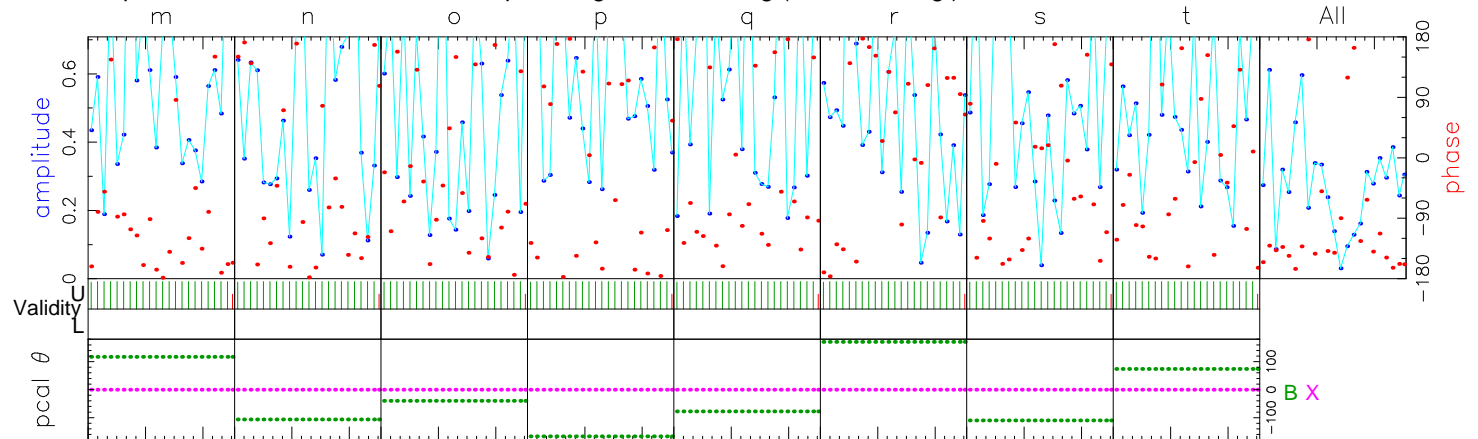
ph/seg (deg)	RMS 42.5	Theor. 37.1	Amplitude Search (1024X32)	0.221 +/- 0.030	0.219	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	66.1	64.8	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	38.4	21.9	Inc. seg. avg.	0.241	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	37.6	38.2	Inc. frq. avg.	0.240	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00	

B: az 4.0 el 30.6 pa -7.6 X: az 6.5 el 37.7 pa -10.4 u,v (fr/asec) 266.943 664.363 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//BX..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//BX.W.129.3MP15Q



Fringe quality 9
SNR 7.9
Int time 149.838
Amp 0.236
Phase -138.6
PFD 4.8e-07
Delays (us)
SBD -0.027546
MBD -0.000845
Fringe rate (Hz)
0.049977
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c241a
Exper # 1234
Yr:day 2024:109
Start 163000.00
Stop 163230.02
FRT 163115.00
Corr/FF/build
2025:007:141222
2025:041:105537
2024:113:095956
RA & Dec (J2000)
18h06m50.680649s
+69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	
	-139.8	-136.5	-98.1	-170.4	-109.9	151.2	-111.8	-116.9	Phase	-138.6	
	0.4	0.3	0.2	0.4	0.4	0.3	0.2	0.2	Ampl.	0.3	
	250.4	70.6	229.3	249.0	251.1	249.3	504.4	177.1	Sbd box	249.9	
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	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	Manl 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)	-2.33251328341E+03		Apriori delay (usec)		-2.33248118853E+03		Resid mbdelay (usec)		-8.44876E-04	+/- 1.4E-04	
Sband delay (usec)	-2.33250873478E+03		Apriori clock (usec)		-1.4806357E+02		Resid sbdelay (usec)		-2.75462E-02	+/- 1.1E-03	
Phase delay (usec)	-2.33248119300E+03		Apriori clockrate (us/s)		-1.4061621E-06		Resid phdelay (usec)		-4.47091E-06	+/- 4.7E-07	
Delay rate (us/s)	-1.55097220047E-02		Apriori rate (us/s)		-1.55103021915E-02		Resid rate (us/s)		5.80187E-07	+/- 5.4E-09	
Total phase (deg)			Apriori accel (us/s/s)		4.13379404025E-06		Resid phase (deg)		-138.6	+/- 14.5	
	RMS	Theor.	Amplitude	0.236 +/- 0.030		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	39.6	34.8	Search (1024X32)	0.233		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000	
amp/seg (%)	63.9	60.7	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	40.0	20.5	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 (%)	43.8	35.8	Inc. frq. avg.	0.266		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
B: az 4.0 el 30.6 pa -7.6	X: az 6.5 el 37.7 pa -10.4		u,v (fr/asec) 266.943 664.363						simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/c241a/v2/3mm/1234/No0901//BX..3MP15Q		Output file: /Exps/c241a/v2/3mm/1234/No0901//BX.W.138.3MP15Q								

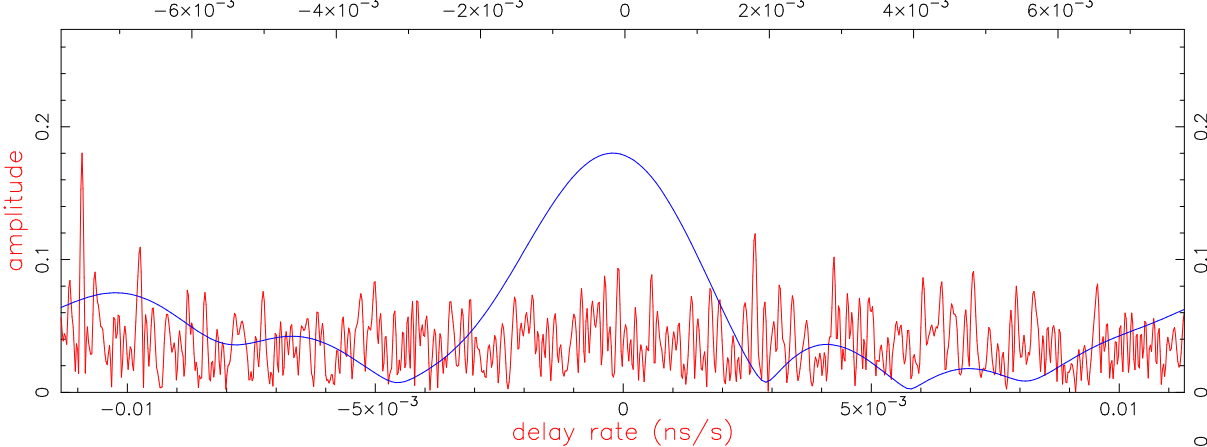
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, By

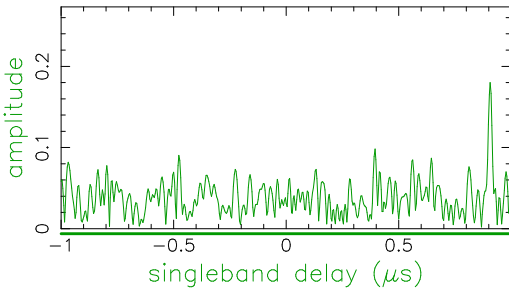
EFLSBERG - KVNYS, fgroup W, pol RL

multiband delay (μ s)

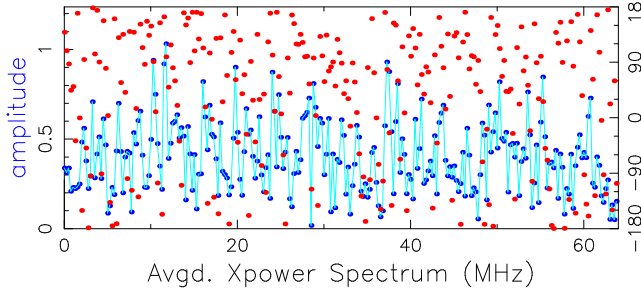


Fringe quality 0

SNR 6.0
 Int time 149.839
 Amp 0.273
 Phase 112.5
 PFD 1.9e-01
 Delays (us)
 SBD 0.906394
 MBD -0.000158
 Fringe rate (Hz)
 -0.941757
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

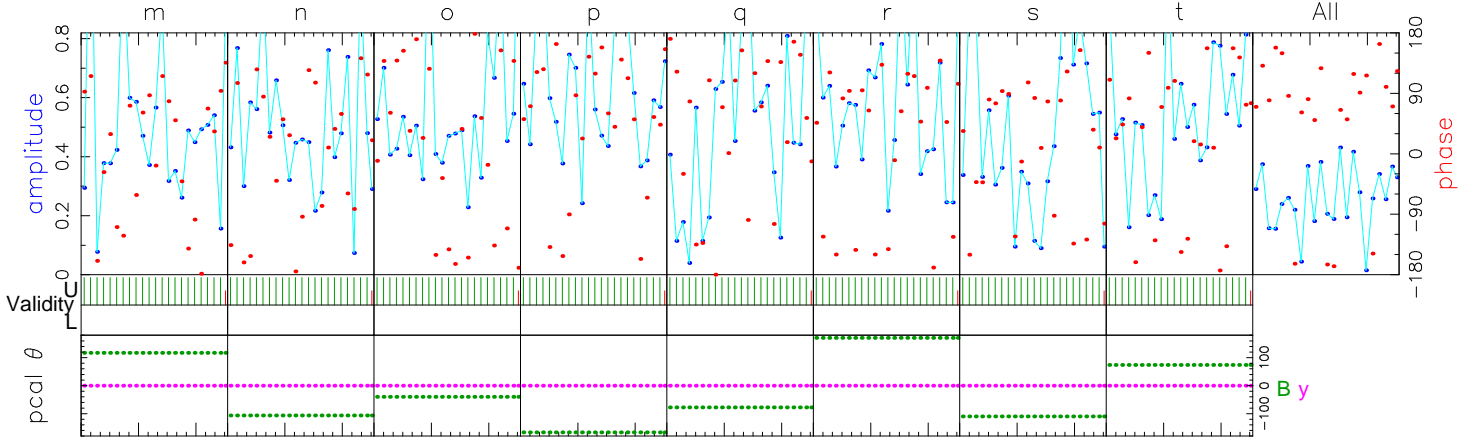


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105528
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
B	0	0	0	0	0	0	0	0		
y	0	0	60000	0	0	0	4000	0		
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	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		
y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	-5.17922504067E+03	Apriori delay (usec)	-5.18013113225E+03	Resid mbdelay (usec)	-1.58420E-04	+/-	1.8E-04
Sband delay (usec)	-5.17922473875E+03	Apriori clock (usec)	-4.1830074E+01	Resid sbdelay (usec)	9.06394E-01	+/-	1.4E-03
Phase delay (usec)	-5.18013112862E+03	Apriori clockrate (us/s)	-1.8910004E-07	Resid phdelay (usec)	3.62884E-06	+/-	6.1E-07
Delay rate (us/s)	-2.62567870503E-01	Apriori rate (us/s)	-2.62556937637E-01	Resid rate (us/s)	-1.09329E-05	+/-	7.1E-09
Total phase (deg)	-151.1	Apriori accel (us/s/s)	4.45218171325E-05	Resid phase (deg)	112.5	+/-	19.0

ph/seg (deg)	50.0	Theor.	45.6	Amplitude	0.273 +/- 0.045	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	73.9	Search (1024X32)	0.175	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	22.5	Inc. seg. avg.	0.297	Inc. frq. avg.	0.259	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	44.9	Inc. frq. avg.	0.259			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 4.0 el 30.6 pa -7.6 y: az 23.5 el 48.4 pa -114.6 u,v (fr/asec) 4479.693 9958.419 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//By..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//By.W.101.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

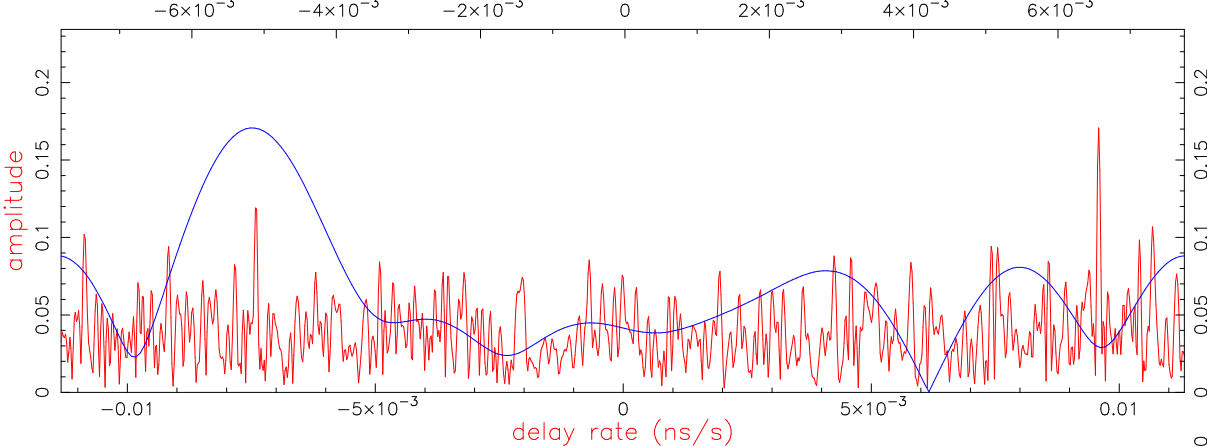
aux01

3C371.3MP15Q, No0901, BY

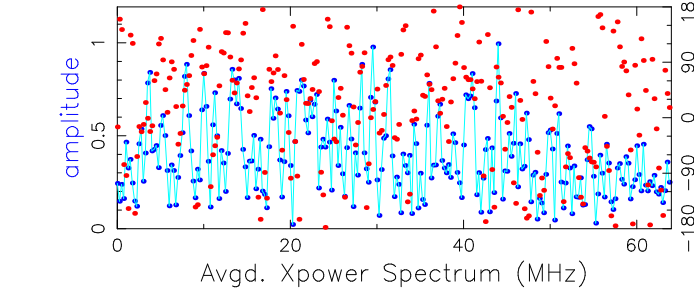
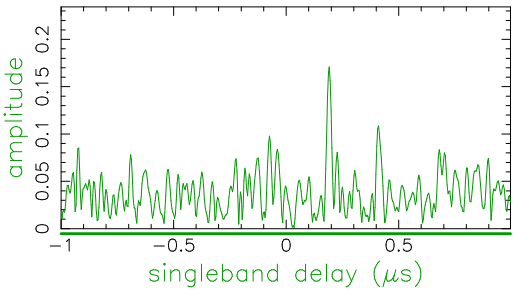
EFLSBERG - YEBES40M, fgroup W, pol LL

multiband delay (μ s)

Fringe quality 0

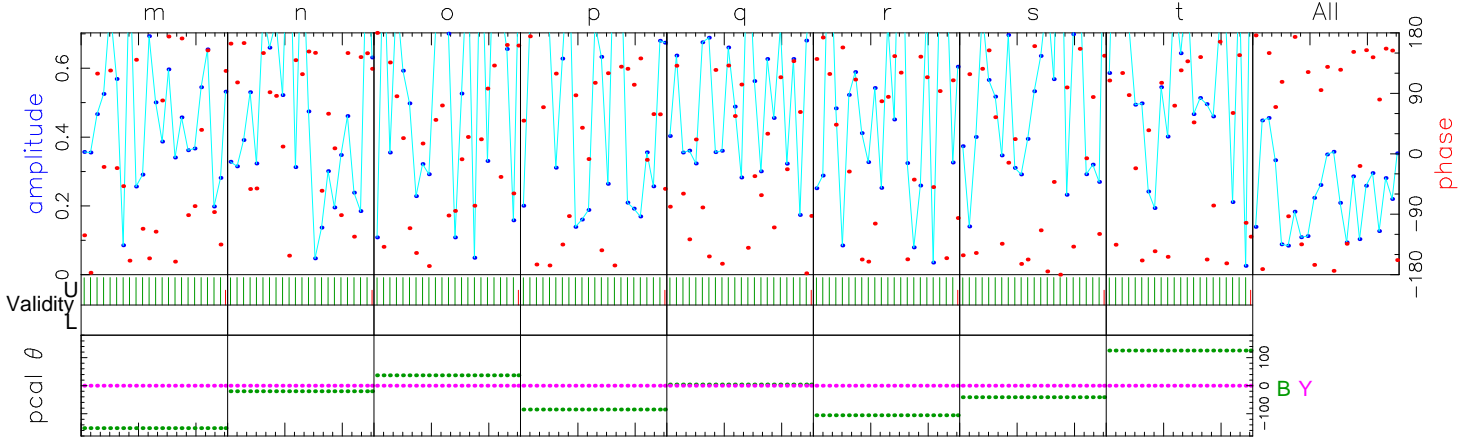


SNR 5.7
 Int time 149.802
 Amp 0.234
 Phase 153.5
 PFD 7.2e-01
 Delays (us)
 SBD 0.190747
 MBD -0.005159
 Fringe rate (Hz)
 0.827326
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105530
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-168.7	140.0	60.0	157.2	-162.0	131.1	178.7	149.1	Phase	153.5
	0.2	0.3	0.2	0.3	0.1	0.4	0.3	0.4	Ampl.	0.2
	15.3	60.6	127.4	165.6	238.2	42.7	159.4	307.3	Sbd box	305.8
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	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)	3.49654421527E+03	Apriori delay (usec)	3.49634624969E+03	Resid mbdelay (usec)	-5.15941E-03	+/-	1.9E-04
Sband delay (usec)	3.49653699719E+03	Apriori clock (usec)	7.5144745E+01	Resid sbdelay (usec)	1.90747E-01	+/-	1.5E-03
Phase delay (usec)	3.49634625463E+03	Apriori clockrate (us/s)	1.0241300E-02	Resid phdelay (usec)	4.94835E-06	+/-	6.5E-07
Delay rate (us/s)	5.86097256328E-02	Apriori rate (us/s)	5.86001211938E-02	Resid rate (us/s)	9.60444E-06	+/-	7.5E-09
Total phase (deg)	134.7	Apriori accel (us/s/s)	-5.25063680676E-06	Resid phase (deg)	153.5	+/-	20.0

ph/seg (deg)	RMS 59.4	Theor. 48.0	Amplitude Search (1024X32)	0.234 +/- 0.041	0.168	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	74.6	83.8	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)	47.4	28.3	Inc. seg. avg.	0.234	0.234	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	40.8	49.4	Inc. frq. avg.	0.245	0.245	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 4.0 el 30.6 pa -7.6 Y: az 0.0 el 20.3 pa -0.2 u,v (fr/asec) -984.176 -736.980 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//BY..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//BY.W.111.3MP15Q

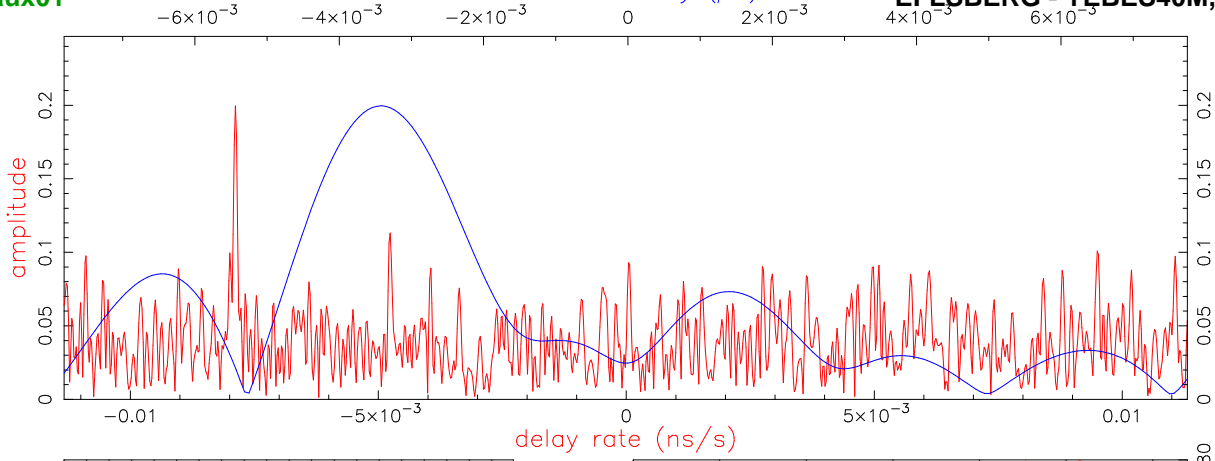
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, BY

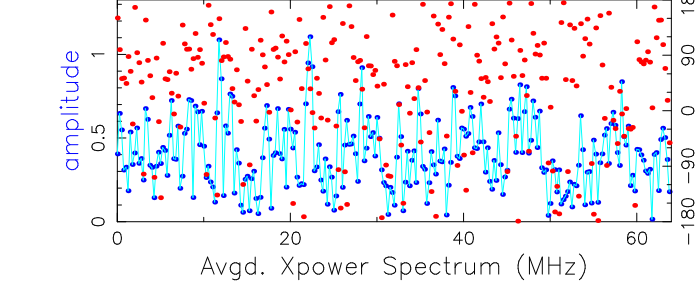
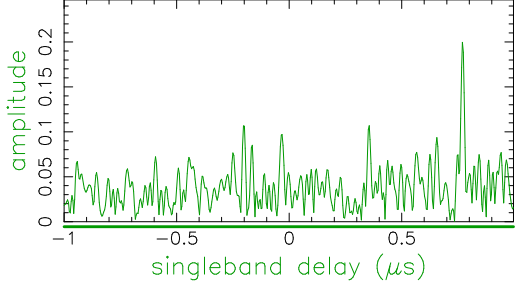
EFLSBERG - YEBES40M, fgroup W, pol RR

multiband delay (μ s)



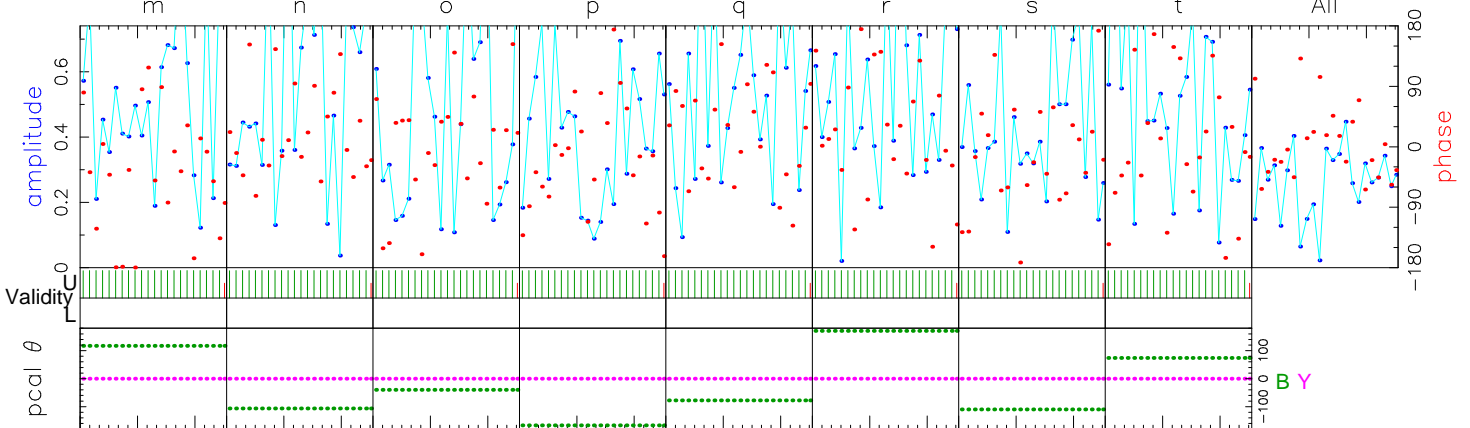
Fringe quality 0

SNR 6.7
 Int time 149.802
 Amp 0.247
 Phase -11.0
 PFD 2.7e-03
 Delays (us)
 SBD 0.770385
 MBD -0.003407
 Fringe rate (Hz)
 -0.679242
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105533
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-35.0	-2.4	-14.0	-29.4	3.8	23.4	-8.9	-42.3	Phase	-11.0
	0.2	0.5	0.2	0.2	0.3	0.2	0.2	0.2	Ampl.	0.2
	493.5	454.4	203.5	368.8	496.1	169.8	91.2	84.6	Sbd box	454.2
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	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	

Group delay (usec) (SBD)	3.49712409222E+03	Apriori delay (usec)	3.49634624969E+03	Resid mbdelay (usec)	-3.40747E-03	+/-	1.6E-04
Sband delay (usec)	3.49711663469E+03	Apriori clock (usec)	7.5144745E+01	Resid sbdelay (usec)	7.70385E-01	+/-	1.3E-03
Phase delay (usec)	3.49634624933E+03	Apriori clockrate (us/s)	1.0241300E-06	Resid phdelay (usec)	-3.53154E-07	+/-	5.5E-07
Delay rate (us/s)	5.85922358729E-02	Apriori rate (us/s)	5.86001211938E-02	Resid rate (us/s)	-7.88532E-06	+/-	6.4E-09
Total phase (deg)	330.3	Apriori accel (us/s/s)	-5.25063680676E-06	Resid phase (deg)	-11.0	+/-	17.1

ph/seg (deg)	56.8	Theor.	40.9	Amplitude	0.247 +/- 0.037	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	60.9	Search (1024X32)	0.198	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	23.8	Inc. seg. avg.	0.257	Inc. frq. avg.	0.239	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	34.0	Inc. frq. avg.	0.239			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 4.0 el 30.6 pa -7.6 Y: az 0.0 el 20.3 pa -0.2 u,v (fr/asec) -984.176 -736.980 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//BY..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//BY.W.121.3MP15Q

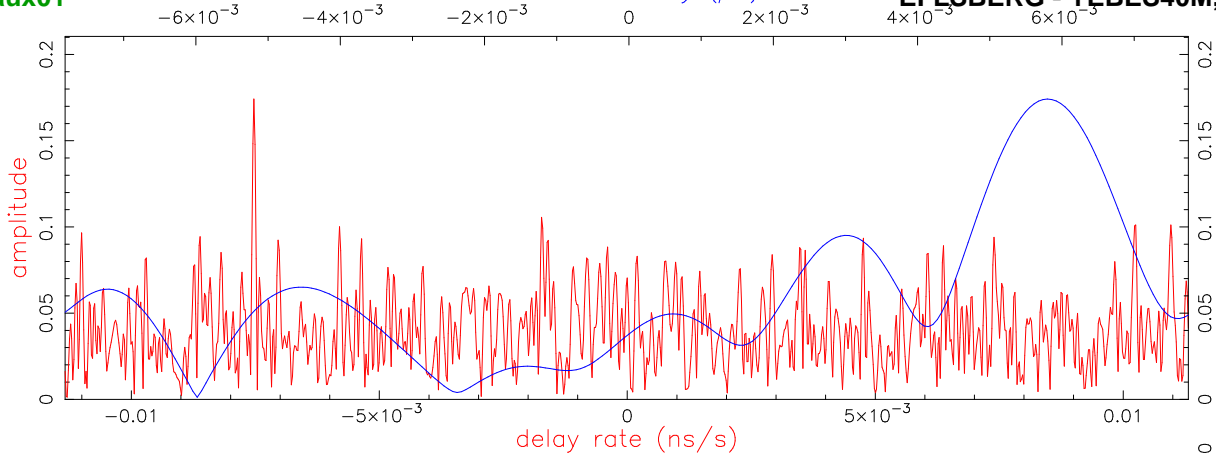
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, BY

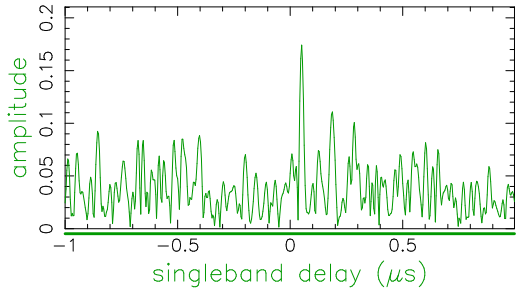
EFLSBERG - YEYES40M, fgroup W, pol LR

multiband delay (μ s)

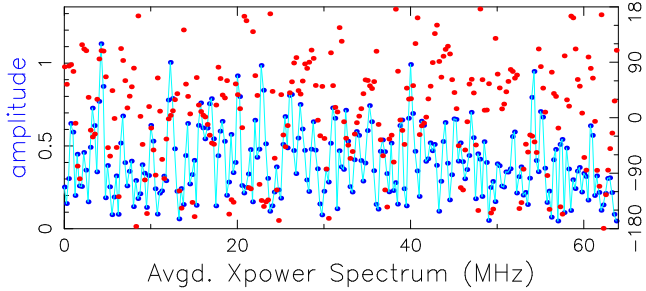


Fringe quality 0

SNR 5.8
 Int time 149.802
 Amp 0.211
 Phase -177.4
 PFD 5.0e-01
 Delays (us)
 SBD 0.050545
 MBD 0.005802
 Fringe rate (Hz)
 -0.649752
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

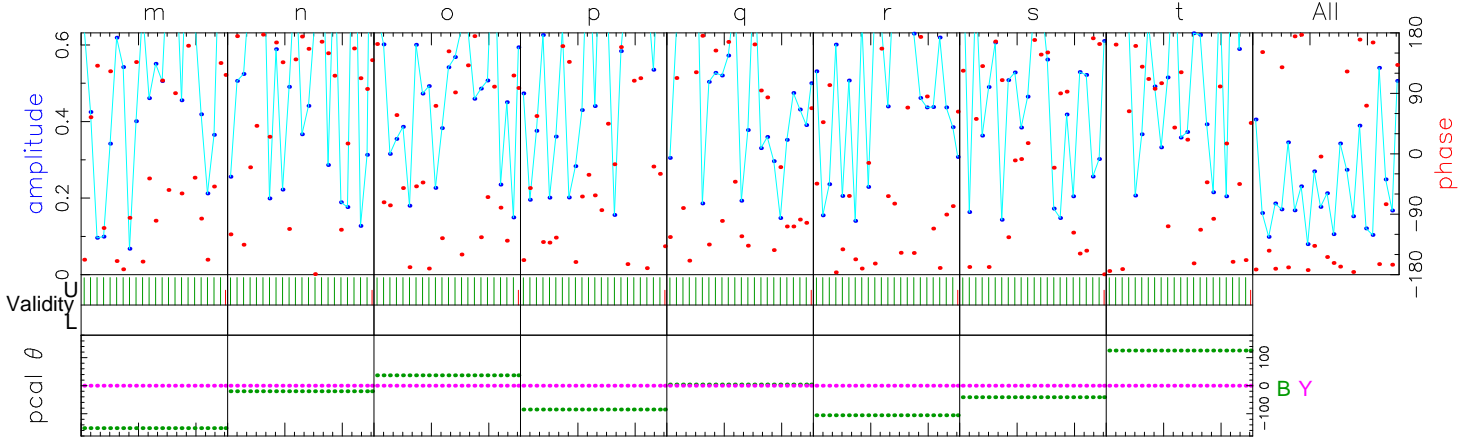


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105535
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	179.4	157.3	-164.8	-130.6	-155.4	-141.3	153.6	161.6	Phase	-177.4
	0.2	0.4	0.1	0.2	0.3	0.2	0.2	0.3	Ampl.	0.2
	417.8	269.5	329.6	154.0	397.6	288.9	237.0	136.2	Sbd box	269.9
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	3.49639892629E+03	Apriori delay (usec)	3.49634624969E+03	Resid mbdelay (usec)	5.80161E-03	+/-	1.9E-04
Sband delay (usec)	3.49639679494E+03	Apriori clock (usec)	7.5144745E+01	Resid sbdelay (usec)	5.05452E-02	+/-	1.5E-03
Phase delay (usec)	3.49634624396E+03	Apriori clockrate (us/s)	1.0241300E-06	Resid phdelay (usec)	-5.72221E-06	+/-	6.3E-07
Delay rate (us/s)	5.85925782139E-02	Apriori rate (us/s)	5.86001211938E-02	Resid rate (us/s)	-7.54298E-06	+/-	7.3E-09
Total phase (deg)	163.8	Apriori accel (us/s/s)	-5.25063680676E-06	Resid phase (deg)	-177.4	+/-	19.6

ph/seg (deg)	54.3	RMS	77.1	Theor.	47.1	Amplitude	0.211 +/- 0.036	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	77.1	Search (1024X32)	0.171	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	31.8	Inc. seg. avg.	0.209	Inc. frq. avg.	0.211	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	38.9	u, v (fr/asec)	-984.176 -736.980	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 4.0 el 30.6 pa -7.6	Y: az 0.0 el 20.3 pa -0.2			simultaneous interpolator							

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//BY..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//BY.W.128.3MP15Q

Mk4/DiFX fourfit 3.25 rev 0

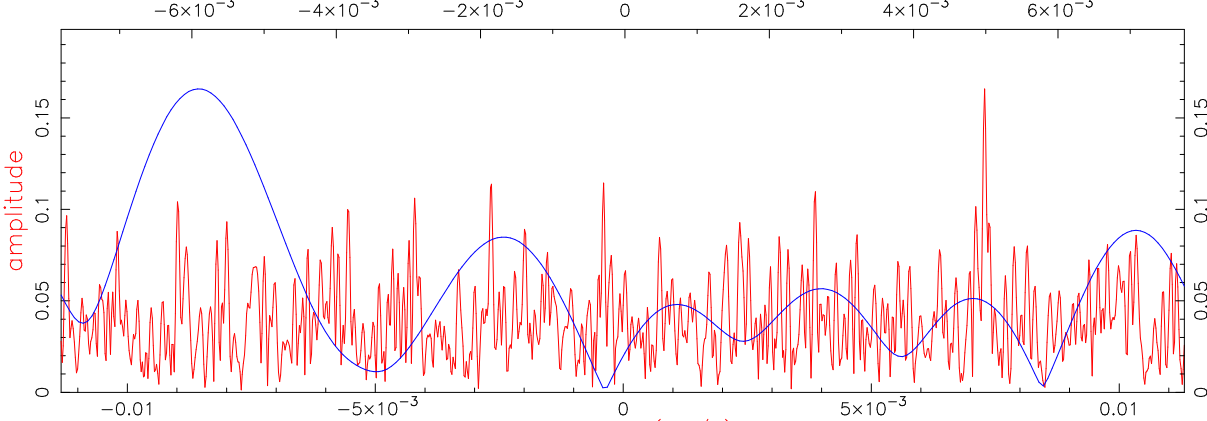
aux01

3C371.3MP15Q, No0901, BY

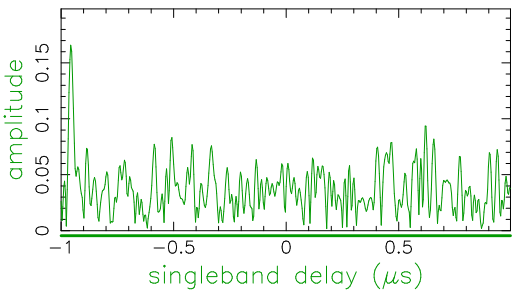
EFLSBERG - YEYES40M, fgroup W, pol RL

multiband delay (μ s)

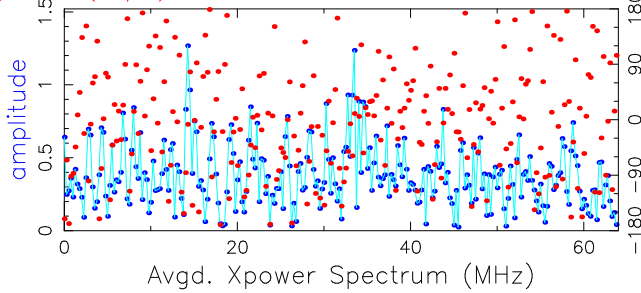
Fringe quality 0



SNR 5.6
 Int time 149.802
 Amp 0.198
 Phase -158.3
 PFD 9.6e-01
 Delays (us)
 SBD -0.956278
 MBD -0.005883
 Fringe rate (Hz)
 0.629326
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

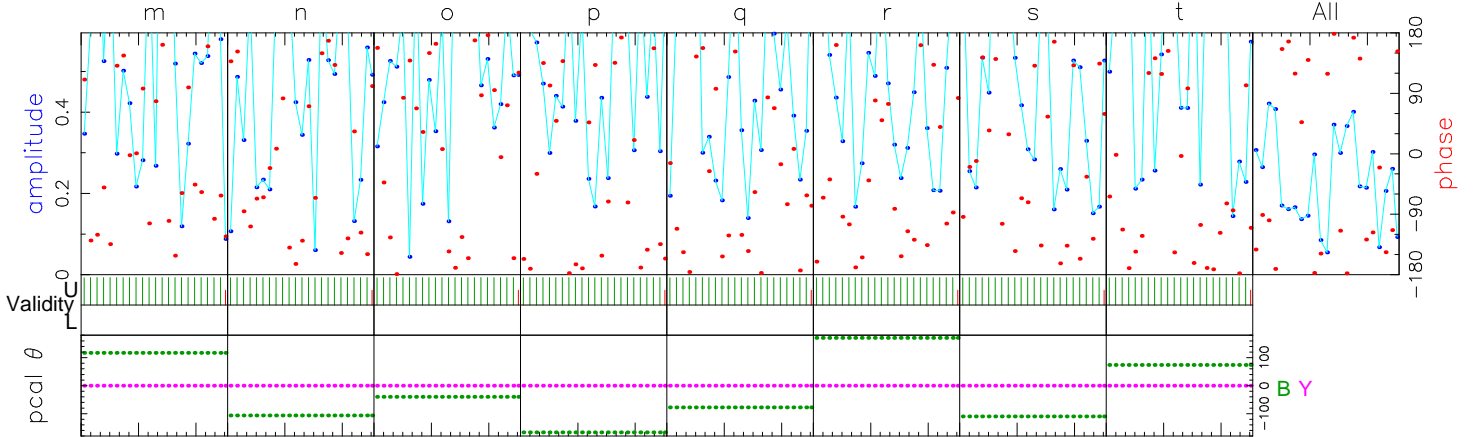


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105537
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-122.7	-166.4	153.4	-177.1	-152.0	-117.9	-162.3	-158.1	Phase	-158.3
	0.3	0.2	0.2	0.3	0.2	0.2	0.1	0.3	Ampl.	0.2
	10.4	67.6	489.0	146.3	30.9	255.0	125.5	11.4	Sbd box	12.2
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	3.49538724125E+03	Apriori delay (usec)	3.49634624969E+03	Resid mbdelay (usec)	-5.88344E-03	+/-	2.0E-04
Sband delay (usec)	3.49538997144E+03	Apriori clock (usec)	7.5144745E+01	Resid sbdelay (usec)	-9.56278E-01	+/-	1.5E-03
Phase delay (usec)	3.49634624458E+03	Apriori clockrate (us/s)	1.0241300E-06	Resid phdelay (usec)	-5.10634E-06	+/-	6.6E-07
Delay rate (us/s)	5.86074270492E-02	Apriori rate (us/s)	5.86001211938E-02	Resid rate (us/s)	7.30586E-06	+/-	7.7E-09
Total phase (deg)	182.9	Apriori accel (us/s/s)	-5.25063680676E-06	Resid phase (deg)	-158.3	+/-	20.6

ph/seg (deg)	RMS 61.8	Theor. 49.4	Amplitude Search (1024X32)	0.198 +/- 0.036	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	79.2	86.2	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)	30.9	29.1	Inc. seg. avg.	0.207	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	dr window (ns/s)	-0.011	0.011
amp/frq (%)	43.7	50.9	Inc. frq. avg.	0.196	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 4.0 el 30.6 pa -7.6 Y: az 0.0 el 20.3 pa -0.2 u,v (fr/asec) -984.176 -736.980 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//BY..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//BY.W.137.3MP15Q

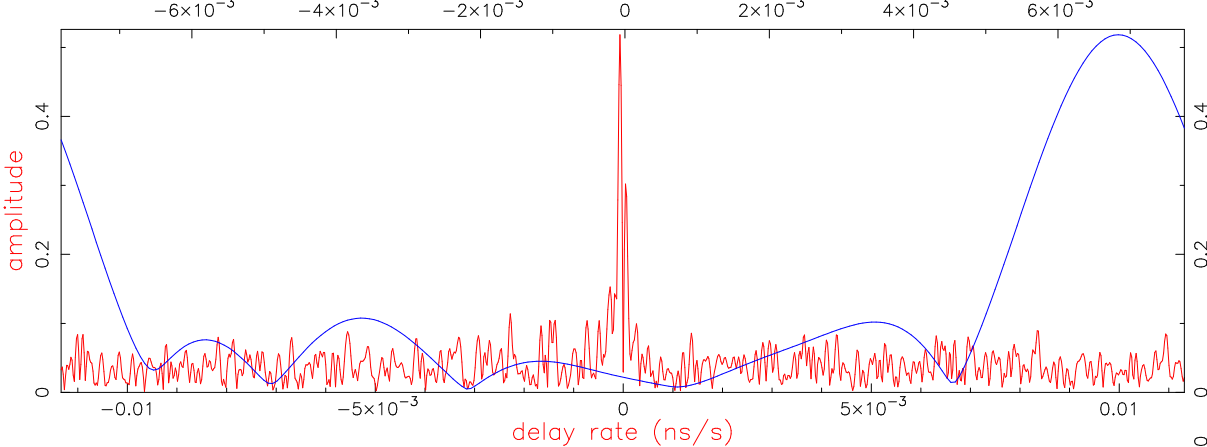
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, By

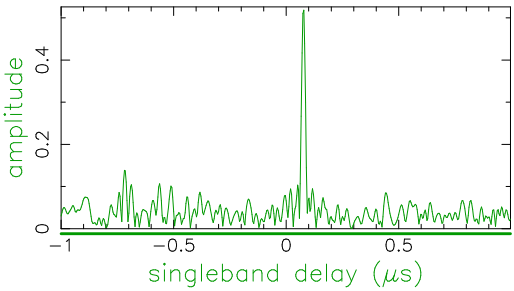
EFLSBERG - KVNYS, fgroup W, pol LL

multiband delay (μ s)

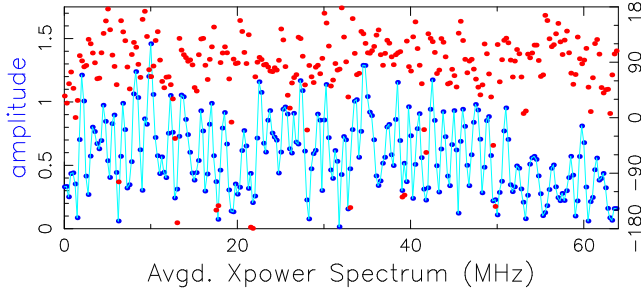


Fringe quality 9

SNR 17.6
 Int time 149.839
 Amp 0.526
 Phase -176.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.076514
 MBD 0.006819
 Fringe rate (Hz) -0.006037
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

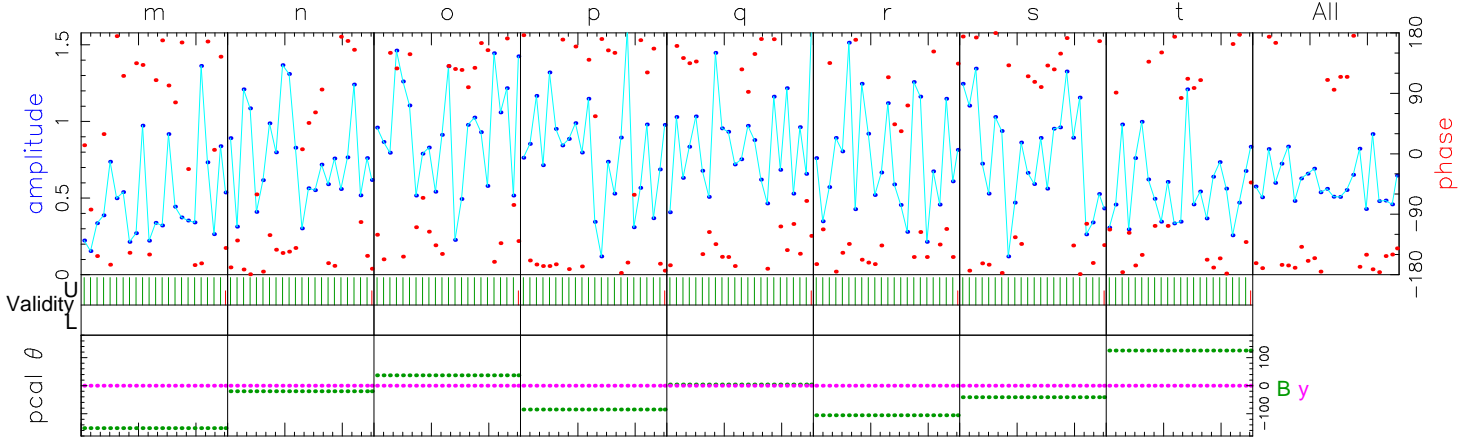


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105519
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
B	0	0	0	0	0	0	0	0		
y	0	0	60000	0	0	0	4000	0		
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:y	-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		
y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	-5.18006181366E+03	Apriori delay (usec)	-5.18013113225E+03	Resid mbdelay (usec)	6.81860E-03	+/-	6.2E-05
Sband delay (usec)	-5.18005461850E+03	Apriori clock (usec)	-4.1830074E+01	Resid sbdelay (usec)	7.65138E-02	+/-	4.9E-04
Phase delay (usec)	-5.18013113796E+03	Apriori clockrate (us/s)	-1.8910004E-07	Resid phdelay (usec)	-5.70313E-06	+/-	2.1E-07
Delay rate (us/s)	-2.62557007725E-01	Apriori rate (us/s)	-2.62556937637E-01	Resid rate (us/s)	-7.00877E-08	+/-	2.4E-09
Total phase (deg)		Apriori accel (us/s/s)	4.45218171325E-05	Resid phase (deg)	-176.9	+/-	6.5

ph/seg (deg)	RMS 35.7	Theor. 15.6	Amplitude Search (1024X32)	0.526 +/- 0.030	0.516	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	30.3	27.2	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)	14.9	9.2	Inc. seg. avg.	0.590	0.590	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	dr window (ns/s)	-0.011	0.011
amp/frq (%)	25.2	16.1	Inc. frq. avg.	0.522	0.522	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 4.0 el 30.6 pa -7.6 y: az 23.5 el 48.4 pa -114.6 u,v (fr/asec) 4479.693 9958.419 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//By..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//By.W.81.3MP15Q

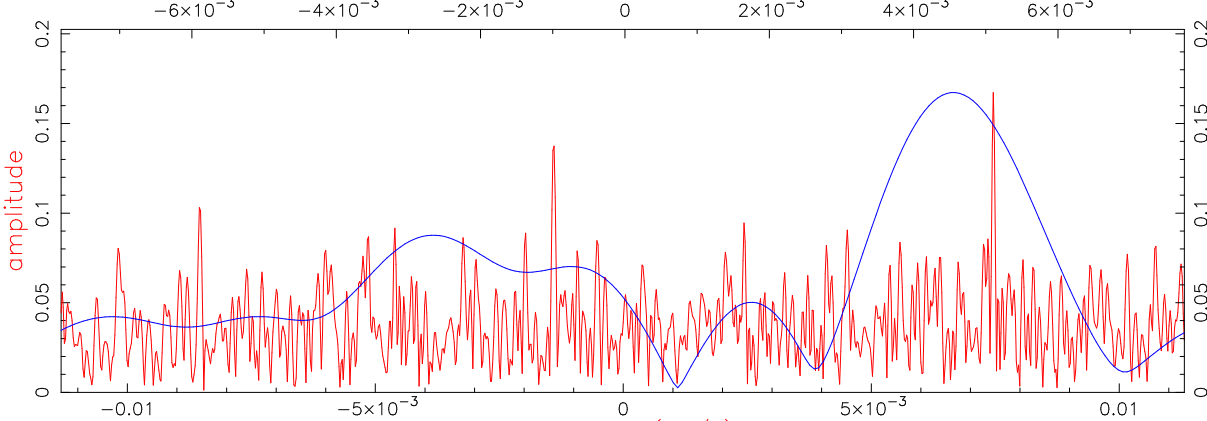
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, By

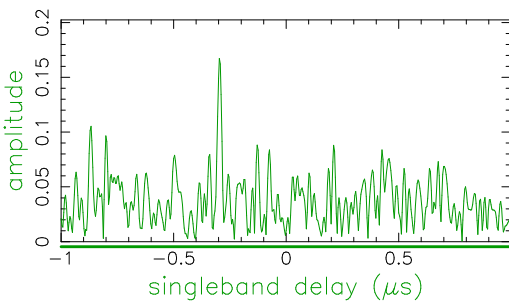
EFLSBERG - KVNYS, fgroup W, pol LR

multiband delay (μ s)

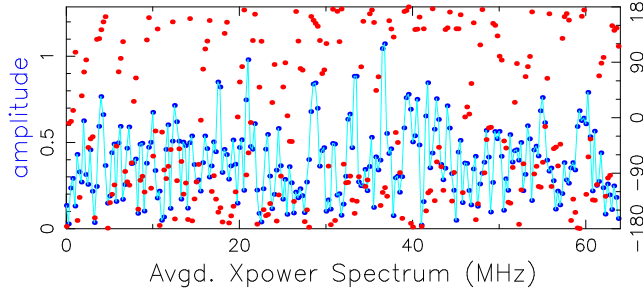


Fringe quality 0

SNR 5.6
 Int time 149.839
 Amp 0.203
 Phase -16.0
 PFD 8.8e-01
 Delays (us)
 SBD -0.295744
 MBD 0.004567
 Fringe rate (Hz)
 0.642879
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

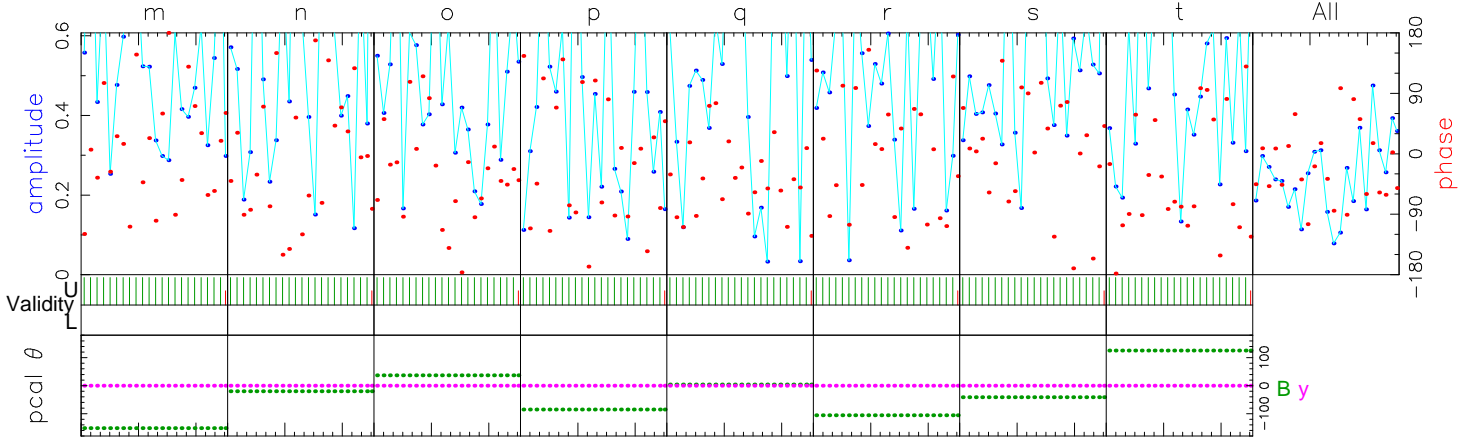


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105525
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	-2.3	-25.8	-22.2	-0.2	-26.2	-2.1	28.7	-61.5	Phase	-16.0
	0.2	0.2	0.3	0.0	0.4	0.1	0.3	0.2	Ampl.	0.2
	418.6	298.7	412.9	423.1	180.8	434.2	410.1	367.4	Sbd box	181.3
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
y	0	0	60000	0	0	0	4000	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-5.18042344070E+03	Apriori delay (usec)	-5.18013113225E+03	Resid mbdelay (usec)	4.56655E-03	+/-	1.9E-04
Sband delay (usec)	-5.18042687625E+03	Apriori clock (usec)	-4.1830074E+01	Resid sbdelay (usec)	-2.95744E-01	+/-	1.5E-03
Phase delay (usec)	-5.18013113277E+03	Apriori clockrate (us/s)	-1.8910004E-07	Resid phdelay (usec)	-5.16033E-07	+/-	6.6E-07
Delay rate (us/s)	-2.62549474455E-01	Apriori rate (us/s)	-2.62556937637E-01	Resid rate (us/s)	7.46318E-06	+/-	7.6E-09
Total phase (deg)	-279.6	Apriori accel (us/s/s)	4.45218171325E-05	Resid phase (deg)	-16.0	+/-	20.3

ph/seg (deg)	53.7	Theor.	48.8	Amplitude	0.203 +/- 0.036	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000		
amp/seg (%)	73.7		85.1	Search (1024X32)	0.167	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	SampCntNorm:	enabled	mb window (us)	-0.008	0.008		
ph/frq (deg)	28.7		28.8	Inc. seg. avg.	0.218	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011				
amp/frq (%)	58.0		50.2	Inc. frq. avg.	0.196	Data rate (Mb/s):	2048	nlags:	256	t_cohere	infinite	ion window (TEC)	0.00	0.00

B: az 4.0 el 30.6 pa -7.6 y: az 23.5 el 48.4 pa -114.6 u,v (fr/asec) 4479.693 9958.419 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//By..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//By.W.94.3MP15Q

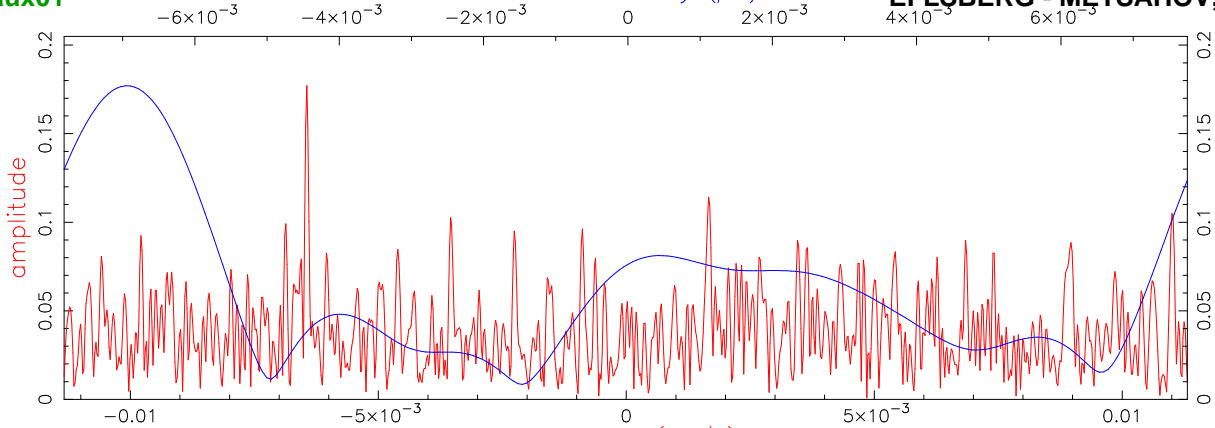
Mk4/DiFX fourfit 3.25 rev 0

aux01

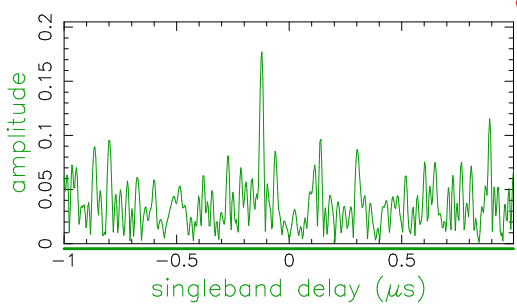
3C371.3MP15Q, No0901, BZ

EFLSBERG - METSAHOV, fgroup W, pol LR

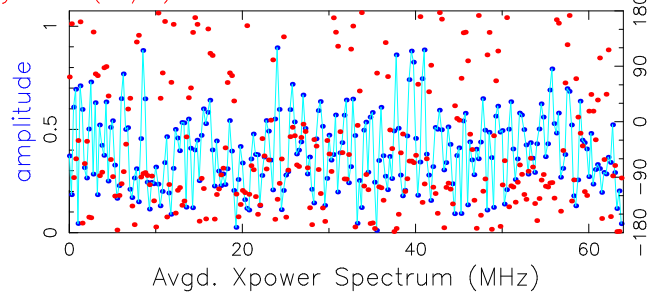
multiband delay (μ s)



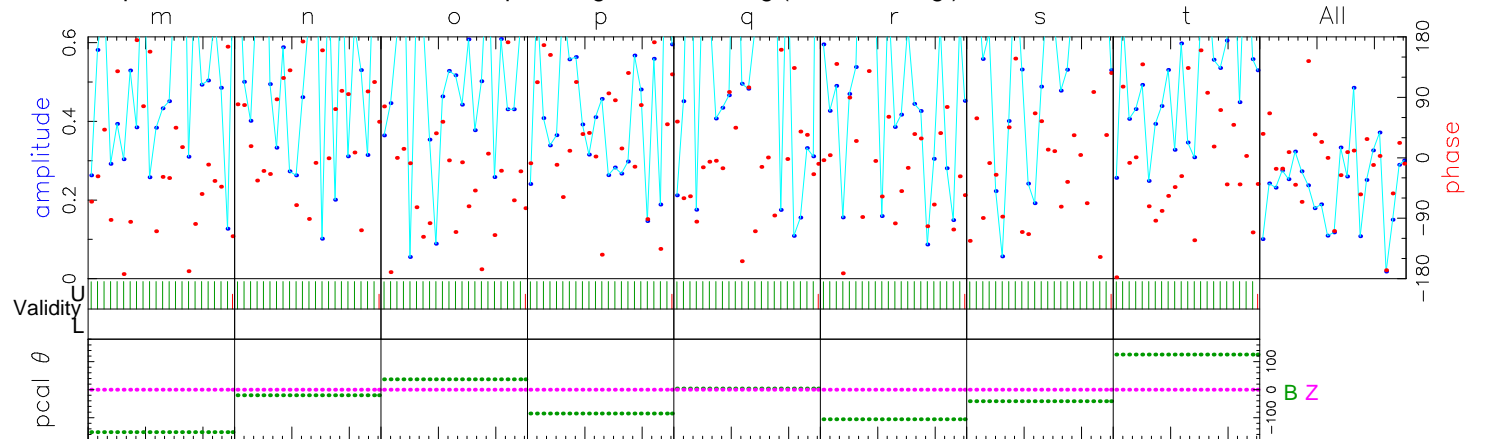
Fringe quality 0
 SNR 6.0
 Int time 149.954
 Amp 0.205
 Phase -2.1
 PFD 2.5e-01
 Delays (us)
 SBD -0.122350
 MBD -0.006954
 Fringe rate (Hz)
 -0.556357
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105529
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"



delay rate (ns/s)



Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 sec / seg.), time ticks 10 sec



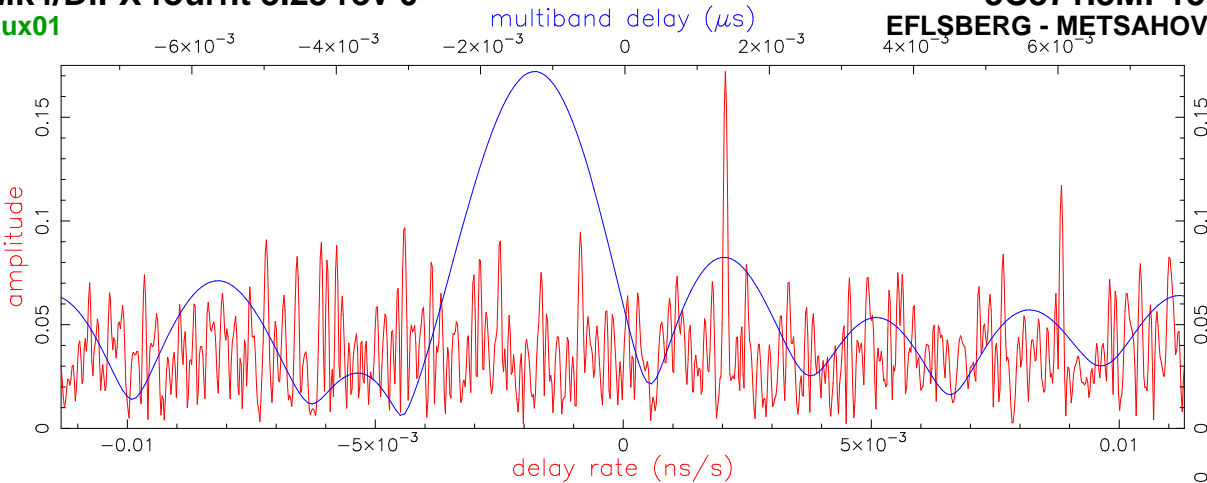
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-25.4	36.2	-41.8	64.3	-15.2	0.2	-0.4	-2.0		Phase
	0.2	0.3	0.3	0.2	0.4	0.2	0.2	0.2		Ampl.
	441.0	430.0	224.3	485.7	226.1	292.4	194.1	130.0		Sbd box
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		225.7
B	0	0	0	0	0	0	0	0		APs used
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
										Tracks
Group delay (usec) (SBD)	-3.32012874439E+03		Apriori delay (usec)		-3.32001241587E+03		Resid mbdelay (usec)		-6.95351E-03	+/- 1.8E-04
Sband delay (usec)	-3.32013476587E+03		Apriori clock (usec)		-3.5514679E+01		Resid sbdelay (usec)		-1.22350E-01	+/- 1.4E-03
Phase delay (usec)	-3.32001241594E+03		Apriori clockrate (us/s)		-7.9939896E-07		Resid phdelay (usec)		-6.81871E-08	+/- 6.2E-07
Delay rate (us/s)	-6.3353343452E-02		Apriori rate (us/s)		-6.33468755888E-02		Resid rate (us/s)		-6.45876E-06	+/- 7.1E-09
Total phase (deg)			Apriori accel (us/s/s)		7.27295311376E-06		Resid phase (deg)		-2.1	+/- 19.2
ph/seg (deg)	RMS 60.3	Theor. 45.9	Amplitude 0.205 +/- 0.034		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000 1.000
amp/seg (%)	65.7	80.2	Search (1024X32) 0.174		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	36.9	27.1	Inc. seg. avg. 0.204		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		nlags: 256 t_cohere infinite		dr window (ns/s)	-0.011 0.011
amp/frq (%)	34.3	47.3	Inc. frq. avg. 0.211		Data rate(Mb/s): 2048		ion window (TEC) 0.00 0.00			
B: az 4.0 el 30.6 pa -7.6	Z: az 12.3 el 41.5 pa -18.1		u, v (fr/asec) 1068.858 1247.534						simultaneous interpolator	
Control file: cf_1234_gmva	Input file: /Exps/c241a/v2/3mm/1234/No0901//BZ..3MP15Q		Output file: /Exps/c241a/v2/3mm/1234/No0901//BZ.W.105.3MP15Q							

Mk4/DiFX fourfit 3.25 rev 0

aux01

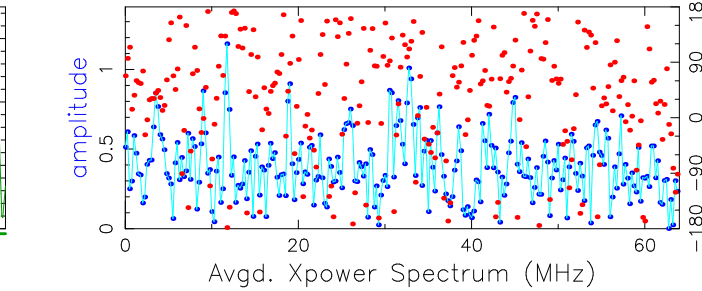
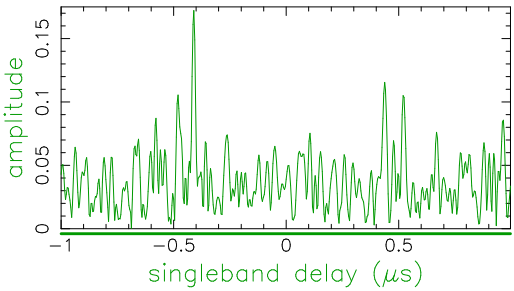
3C371.3MP15Q, No0901, BZ

EFLSBERG - METSAHOV, fgroup W, pol RL



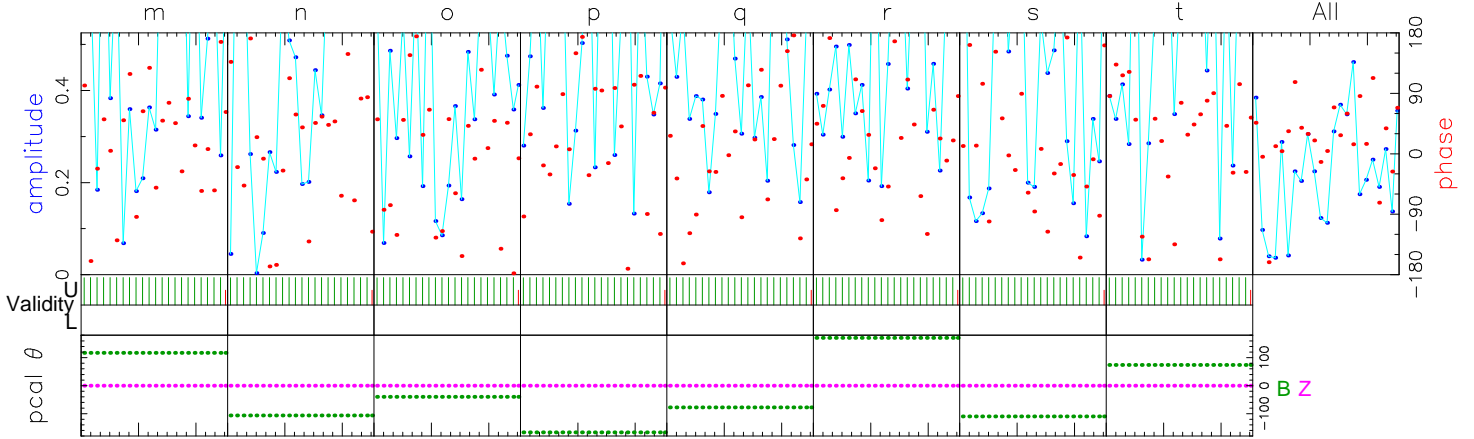
Fringe quality 0

SNR 5.8
 Int time 149.954
 Amp 0.175
 Phase 36.2
 PFD 6.0e-01
 Delays (us)
 SBD -0.410887
 MBD -0.001277
 Fringe rate (Hz)
 0.177606
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105531
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
B	0	0	0	0	0	0	0	0		
Z	0	0	0	0	0	0	0	0		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:Z	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		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	-3.32041994246E+03	Apriori delay (usec)	-3.32001241587E+03	Resid mbdelay (usec)	-1.27658E-03	+/-	1.9E-04
Sband delay (usec)	-3.32042330262E+03	Apriori clock (usec)	-3.5514679E+01	Resid sbdelay (usec)	-4.10887E-01	+/-	1.5E-03
Phase delay (usec)	-3.32001241470E+03	Apriori clockrate (us/s)	-7.9939896E-07	Resid phdelay (usec)	1.16874E-06	+/-	6.4E-07
Delay rate (us/s)	-6.33448137556E-02	Apriori rate (us/s)	-6.33468755888E-02	Resid rate (us/s)	2.06183E-06	+/-	7.4E-09
Total phase (deg)	-145.0	Apriori accel (us/s/s)	7.27295311376E-06	Resid phase (deg)	36.2	+/-	19.8

ph/seg (deg)	54.1	Theor.	47.5	Amplitude	0.175 +/- 0.030	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	72.7	Search (1024X32)	0.170	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	22.4	Inc. seg. avg.	0.167	Inc. frq. avg.	0.165	Bits/sample: 2x2	mb window (us) -0.008 0.008
amp/frq (%)	42.1	Inc. frq. avg.	0.165			SampCntNorm: enabled	dr window (ns/s) -0.011 0.011
						Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	ion window (TEC) 0.00 0.00
						Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite

B: az 4.0 el 30.6 pa -7.6 Z: az 12.3 el 41.5 pa -18.1 u,v (fr/asec) 1068.858 1247.534 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//BZ..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//BZ.W.112.3MP15Q

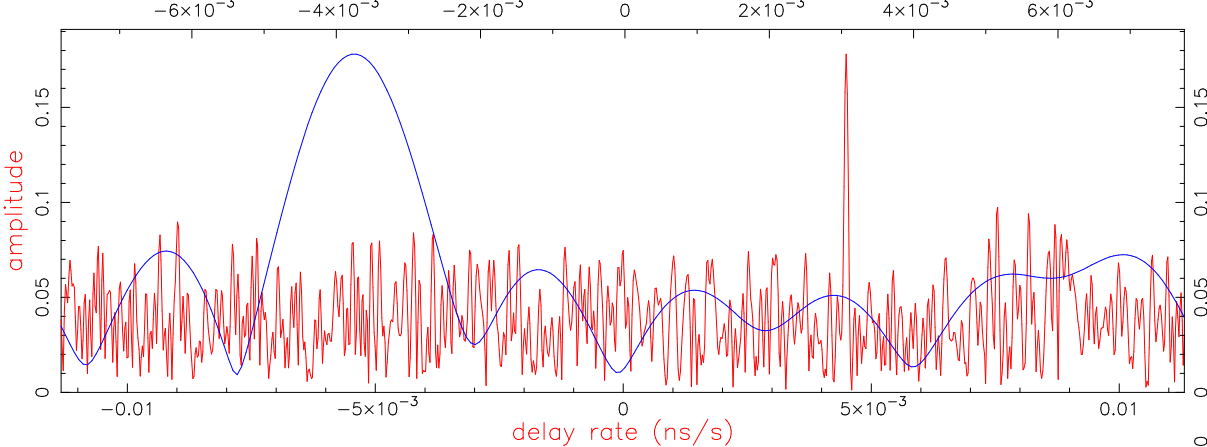
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, BZ

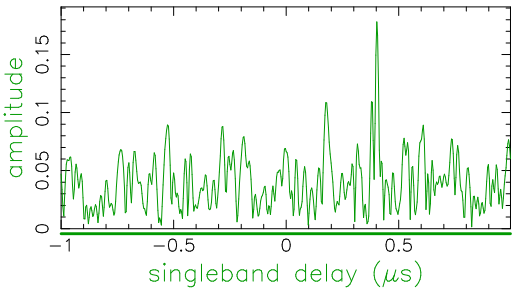
EFLSBERG - METSAHOV, fgroup W, pol LL

multiband delay (μ s)

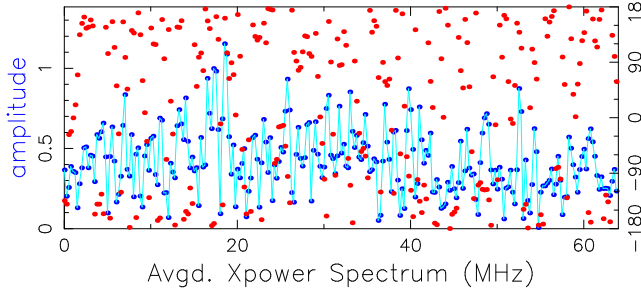


Fringe quality 0

SNR 6.0
 Int time 149.954
 Amp 0.191
 Phase 168.1
 PFD 2.3e-01
 Delays (us)
 SBD 0.403160
 MBD -0.003734
 Fringe rate (Hz) 0.387206
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

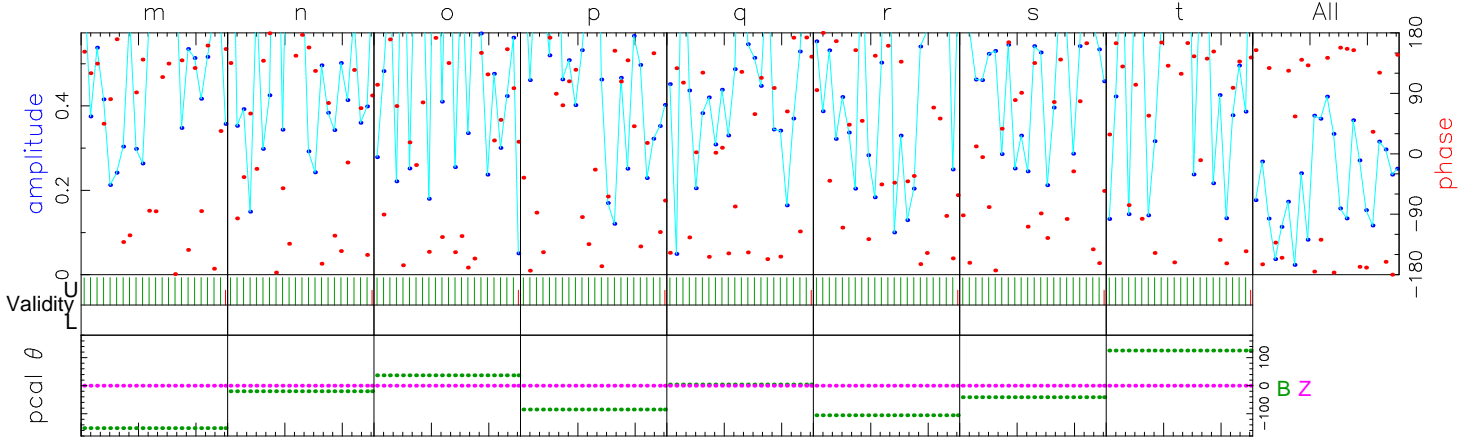


delay rate (ns/s)



Exp. c241a
 Exper # 1234
 Yr:day 2024:109
 Start 163000.00
 Stop 163230.02
 FRT 163115.00
 Corr/FF/build
 2025:007:141222
 2025:041:105523
 2024:113:095956
 RA & Dec (J2000)
 18h06m50.680649s
 +69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0		
B	0	0	0	0	0	0	0	0		
Z	0	0	0	0	0	0	0	0		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:Z	-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		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	-3.31960989981E+03	Apriori delay (usec)	-3.32001241587E+03	Resid mbdelay (usec)	-3.73394E-03	+/-	1.8E-04
Sband delay (usec)	-3.31960925612E+03	Apriori clock (usec)	-3.5514679E+01	Resid sbdelay (usec)	4.03160E-01	+/-	1.4E-03
Phase delay (usec)	-3.32001241045E+03	Apriori clockrate (us/s)	-7.9939896E-07	Resid phdelay (usec)	5.42142E-06	+/-	6.2E-07
Delay rate (us/s)	-6.33423805149E-02	Apriori rate (us/s)	-6.3346875888E-02	Resid rate (us/s)	4.49507E-06	+/-	7.1E-09
Total phase (deg)	-13.1	Apriori accel (us/s/s)	7.27295311376E-06	Resid phase (deg)	168.1	+/-	19.1

ph/seg (deg)	RMS 48.5	Theor. 45.9	Amplitude Search (1024X32)	0.174	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	66.6	80.0	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)	22.1	27.0	Inc. seg. avg.	0.177	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	47.3	47.2	Inc. frq. avg.	0.177	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 4.0 el 30.6 pa -7.6 Z: az 12.3 el 41.5 pa -18.1 u,v (fr/asec) 1068.858 1247.534 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241a/v2/3mm/1234/No0901//BZ..3MP15Q Output file: /Exps/c241a/v2/3mm/1234/No0901//BZ.W.92.3MP15Q

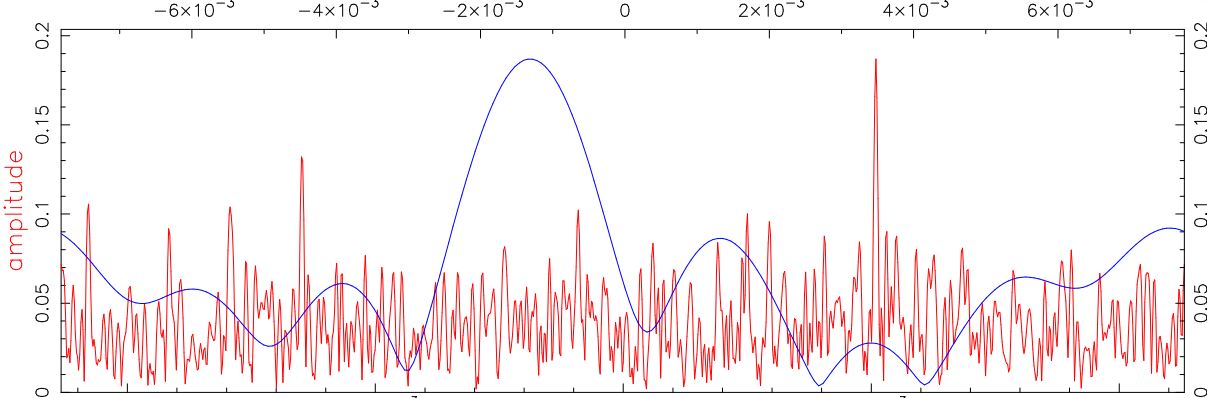
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C371.3MP15Q, No0901, BZ

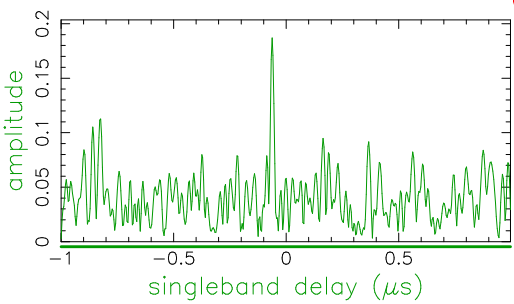
EFLSBERG - METSAHOV, fgroup W, pol RR

multiband delay (μ s)

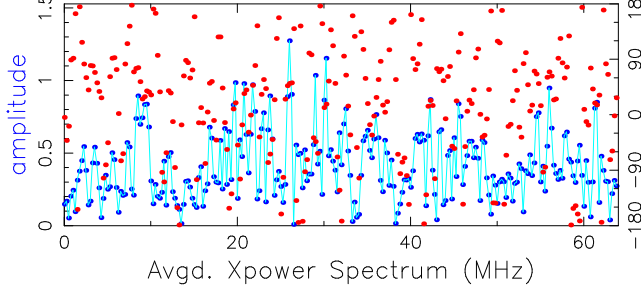


Fringe quality 0

SNR 6.3
Int time 149.954
Amp 0.204
Phase 62.8
PFD 5.0e-02
Delays (us)
SBD -0.062313
MBD -0.001306
Fringe rate (Hz)
0.439571
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

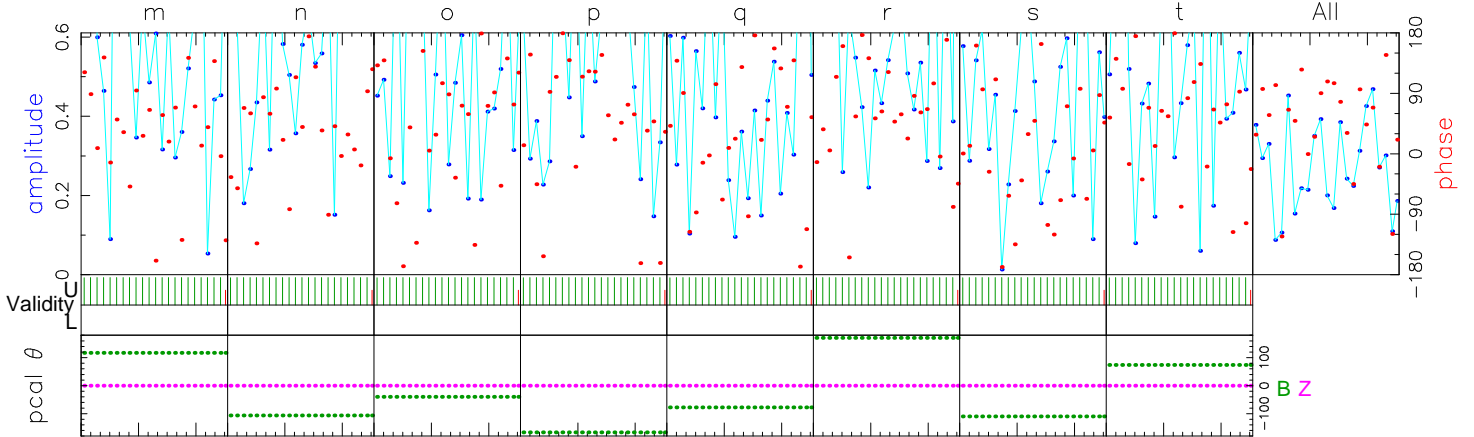


delay rate (ns/s)



Exp. c241a
Exper # 1234
Yr:day 2024:109
Start 163000.00
Stop 163230.02
FRT 163115.00
Corr/FF/build
2025:007:141222
2025:041:105527
2024:113:095956
RA & Dec (J2000)
18h06m50.680649s
+69°49'28.108492"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (6.66 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
	58.5	38.7	104.4	80.6	143.5	64.4	30.3	60.9	Phase	62.8
	0.3	0.3	0.1	0.3	0.0	0.3	0.1	0.3	Ampl.	0.2
	240.3	242.9	468.0	423.6	263.5	211.5	489.2	239.9	Sbd box	241.0
U/L	293/0	293/0	293/0	293/0	293/0	293/0	293/0	293/0	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	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-3.32007622235E+03	Apriori delay (usec)	-3.32001241587E+03	Resid mbdelay (usec)	-1.30647E-03	+/-	1.7E-04
Sband delay (usec)	-3.32007472912E+03	Apriori clock (usec)	-3.5514679E+01	Resid sbdelay (usec)	-6.23133E-02	+/-	1.4E-03
Phase delay (usec)	-3.32001241385E+03	Apriori clockrate (us/s)	-7.9939896E-07	Resid phdelay (usec)	2.02383E-06	+/-	5.9E-07
Delay rate (us/s)	-6.33417726050E-02	Apriori rate (us/s)	-6.33468755888E-02	Resid rate (us/s)	5.10298E-06	+/-	6.8E-09
Total phase (deg)	-118.4	Apriori accel (us/s/s)	7.27295311376E-06	Resid phase (deg)	62.8	+/-	18.3

ph/seg (deg)	69.6	RMS	43.9	Theor.	69.6	Amplitude	0.204 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	75.5	Search (1024X32)	0.176	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	41.3	Inc. seg. avg.	0.231	Inc. frq. avg.	0.197	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	50.5	Inc. frq. avg.	0.197	Data rate (MSamp/s):	128 MBpts	32 Amb	0.016 us	dr window (ns/s)	-0.011	0.011	
B: az 4.0 el 30.6 pa -7.6	Z: az 12.3 el 41.5 pa -18.1	u, v (fr/asec)	1068.858 1247.534	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/c241a/v2/3mm/1234/No0901//BZ..3MP15Q	Output file: /Exps/c241a/v2/3mm/1234/No0901//BZ.W.98.3MP15Q							simultaneous interpolator		