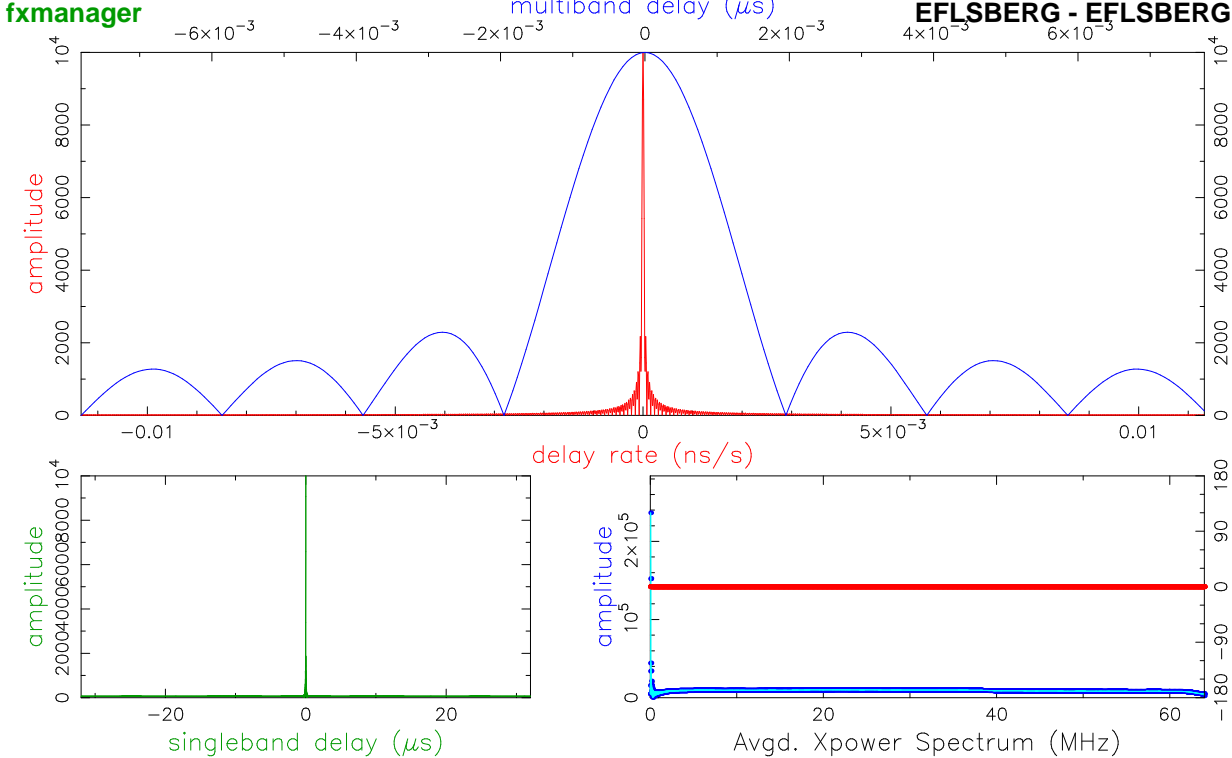


Mk4/DiFX fourfit 3.24 rev 3753

fxmanager

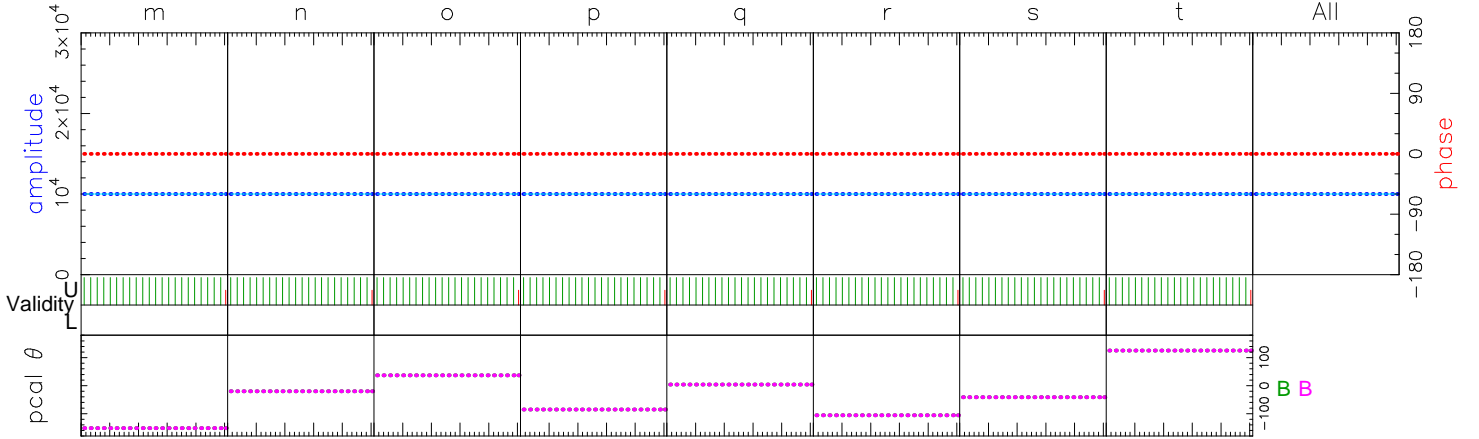
BLLAC.37F3IY, No0006, BB

EFLSBERG - EFLSBERG, fgroup W, pol LL



Fringe quality 9
 SNR 473627.6
 Int time 299.971
 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. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:112547
 2023:348:201250
 RA & Dec (J2000) 22h02m43.291370s +42°16'39.979897"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 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	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0		
B	0	0	0	0	0	0	0	0		
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:B	-151:-151	-20:-20	37:37	-85:-85	4:4	-106:-106	-41:-41	125:125		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 2.3E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.8E-08
 Phase delay (usec) 0.0000000000E+00 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 0.00000E+00 +/- 7.8E-12
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 4.5E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

RMS Theor. Amplitude 10000.000 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.000 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00
 B: az 295.3 el 36.1 pa 51.0 B: az 295.3 el 36.1 pa 51.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

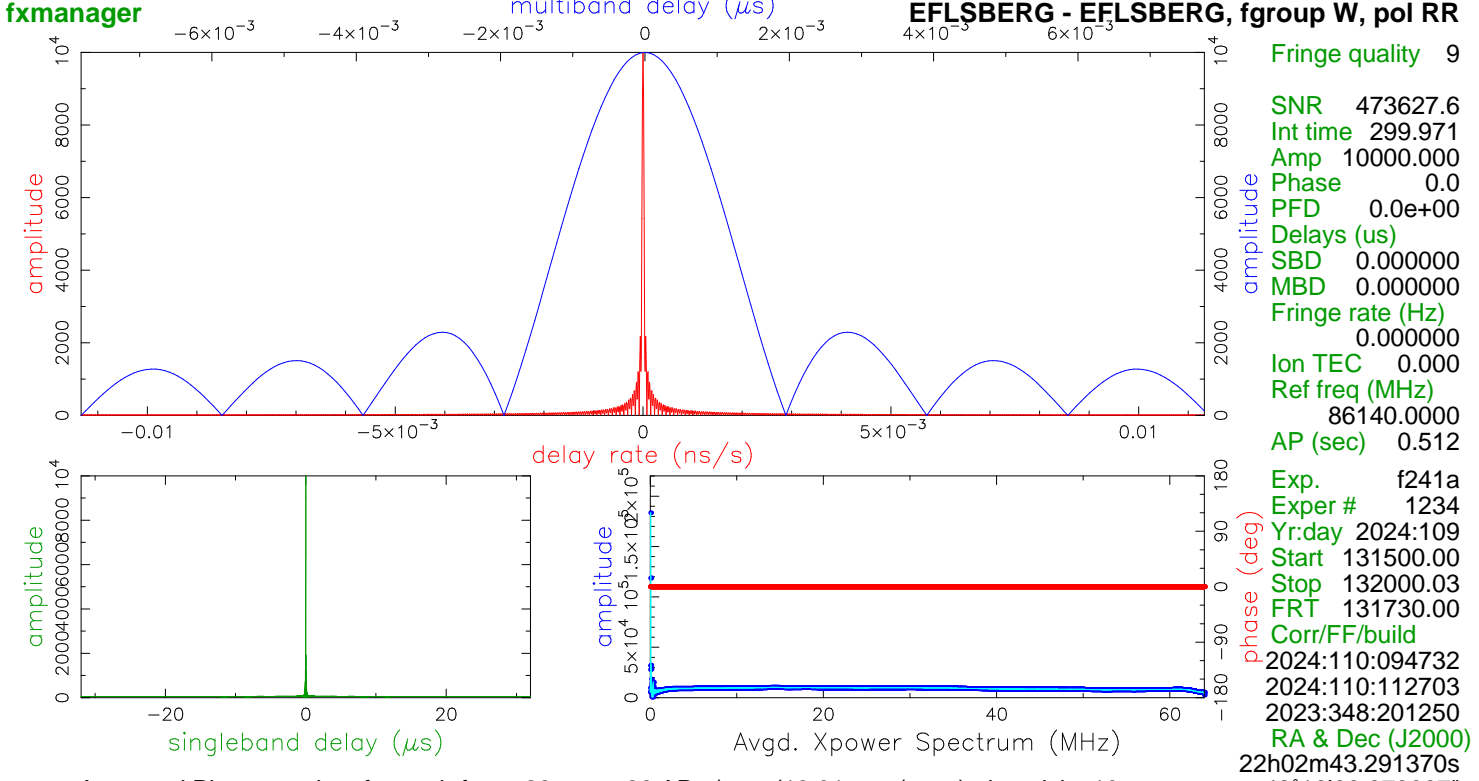
Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/BB..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/BB.W.13.37F3IY

Mk4/DiFX fourfit 3.24 rev 3753

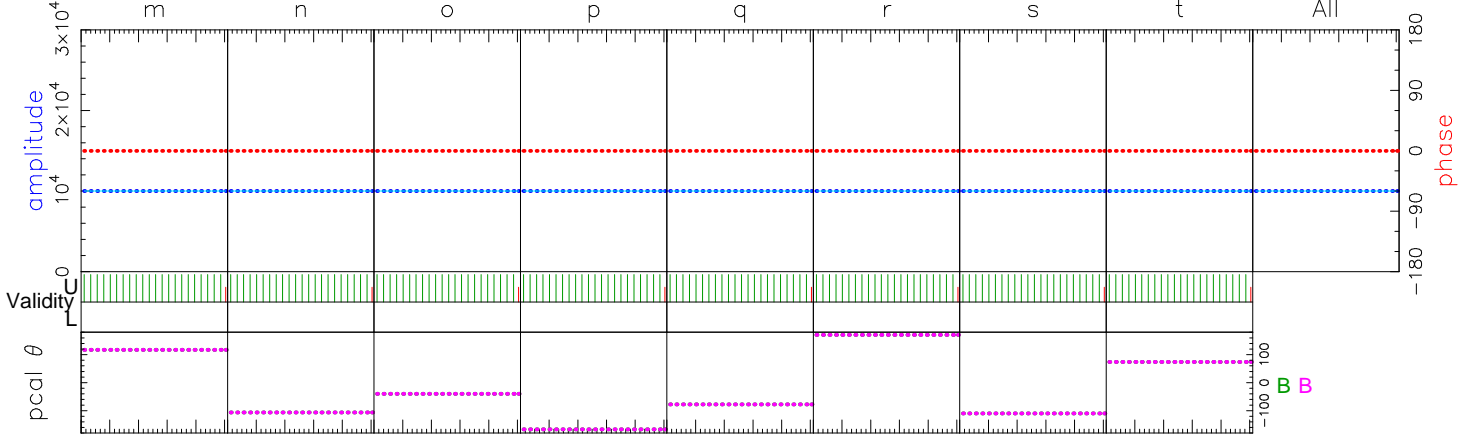
fxmanager

BLLAC.37F3IY, No0006, BB

EFLSBERG - EFLSBERG, fgroup W, pol RR



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 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
Phase	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ampl.	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0
Sbd box	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0
APs used	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0		
PC freqs	B 0	B 0	B 0	B 0	B 0	B 0	B 0	B 0		
PC phase	B:B 0:0	B:B 0:0	B:B 0:0	B:B 0:0	B:B 0:0	B:B 0:0	B:B 0:0	B:B 0:0		
Mani PC	B 118:118	B -106:-106	B -40:-40	B -167:-167	B -77:-77	B 171:171	B -110:-110	B 74:74		
PC amp	B 1000	B 1000	B 1000	B 1000	B 1000	B 1000	B 1000	B 1000		
Chan ids	B W00UR	B W01UR	B W02UR	B W03UR	B W04UR	B W05UR	B W06UR	B W07UR		
Tracks	B W00UR	B W01UR	B W02UR	B W03UR	B W04UR	B W05UR	B W06UR	B W07UR		

Group delay (usec) (SBD)	0.000000000000E+00	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	0.000000E+00	+/-	2.3E-09
Sband delay (usec)	0.000000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.000000E+00	+/-	1.8E-08
Phase delay (usec)	0.000000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.000000E+00	+/-	7.8E-12
Delay rate (us/s)	0.000000000000E+00	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	0.000000E+00	+/-	4.5E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	0.0	+/-	0.0

ph/seg (deg)	0.0	RMS	Theor.	Amplitude	10000.000 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	0.0	0.0	0.0	Search (2048X32)	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000	
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	10000.000	Data rate (Mb/s):	2048	nlags: 8192 t_cohere infinite	ion window (TEC)	0.00 0.00
B: az 295.3 el 36.1 pa 51.0				B: az 295.3 el 36.1 pa 51.0		u,v (fr/asec)	0.000 0.000		simultaneous interpolator	

Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/BB..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/BB.W.14.37F3IY

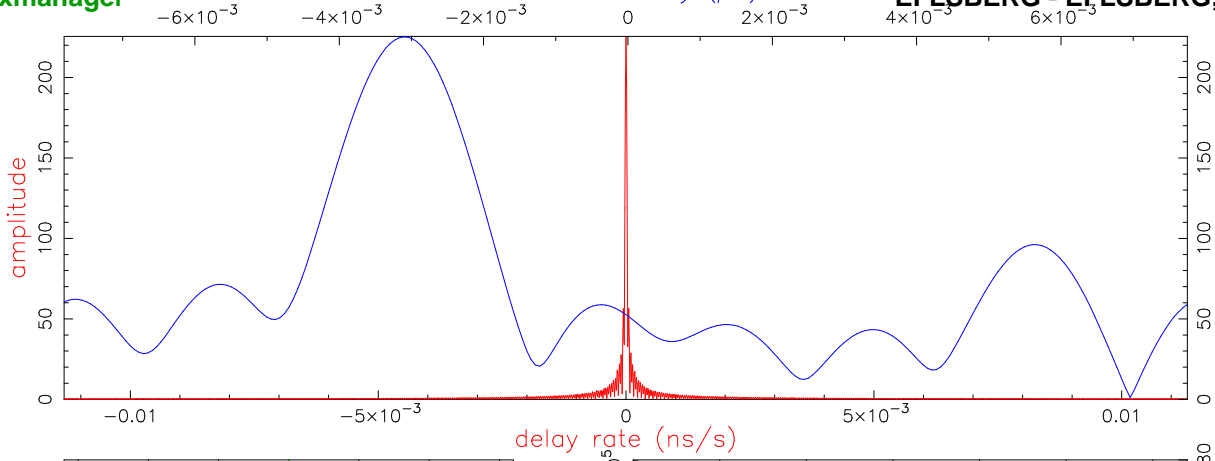
Mk4/DiFX fourfit 3.24 rev 3753

fxmanager

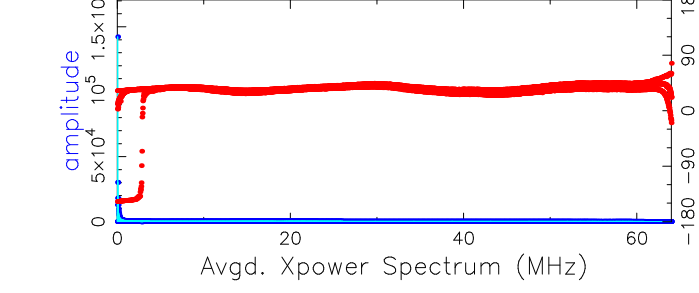
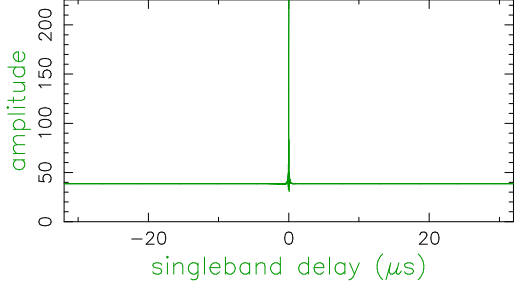
BLLAC.37F3IY, No0006, BB

EFLSBERG - EFLSBERG, fgroup W, pol LR

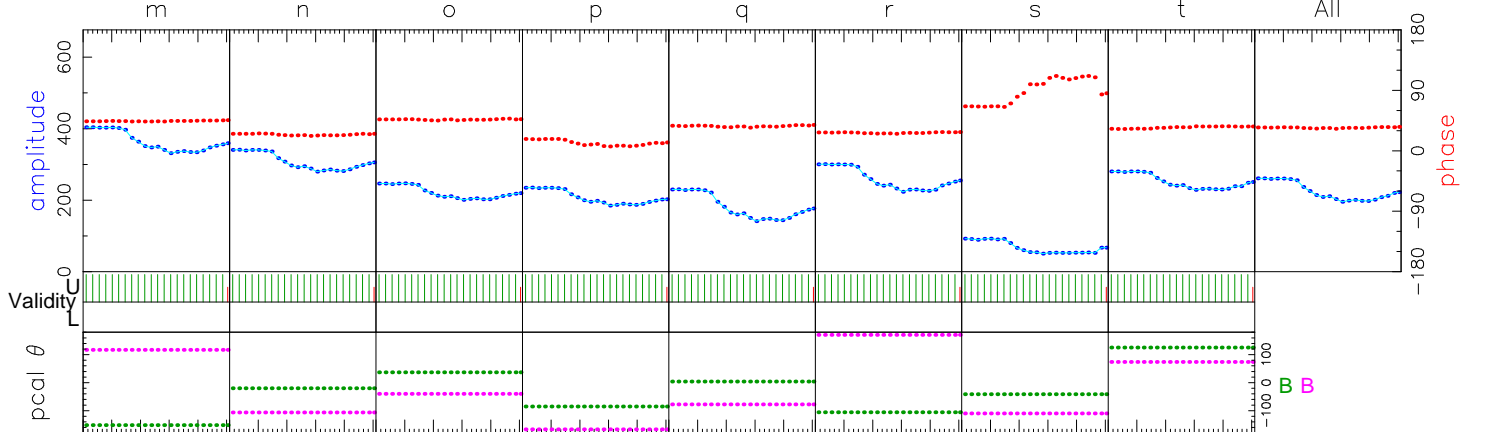
multiband delay (μ s)



Fringe quality 6
 Error code G
 SNR 10681.1
 Int time 299.971
 Amp 225.516
 Phase 34.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.003237
 MBD -0.003087
 Fringe rate (Hz)
 -0.000022
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:112822
 2023:348:201250
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"



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

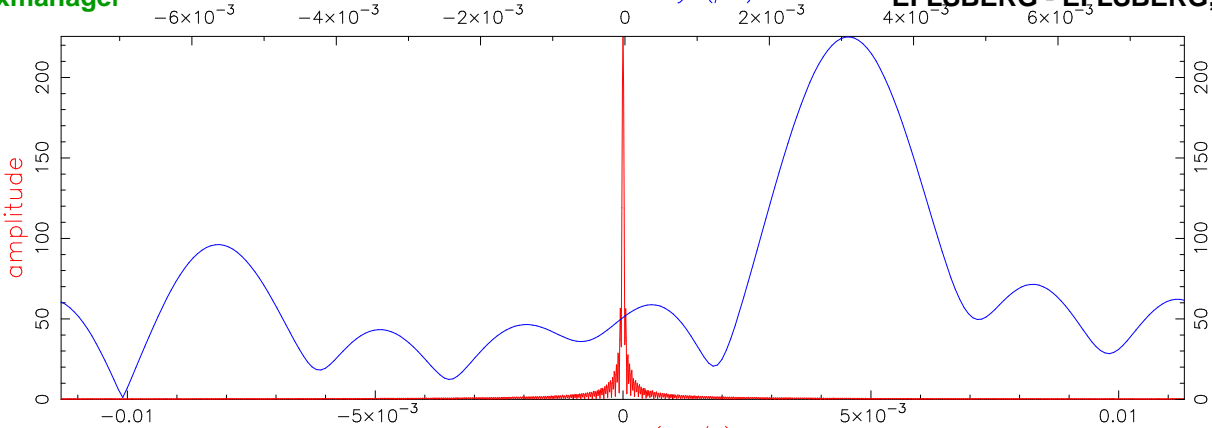


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0		
B	0	0	0	0	0	0	0	0		
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:B	-151:118	-20:-106	37:-40	-85:-167	4:-77	-106:171	-41:-110	125:74		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

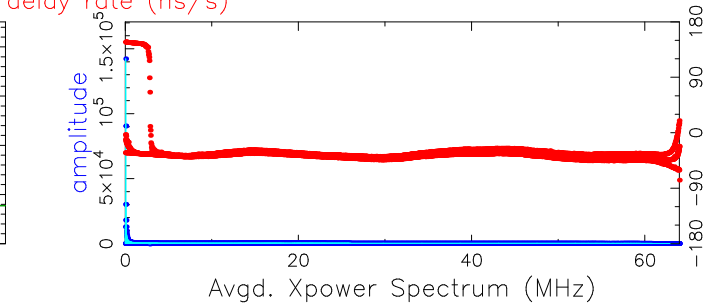
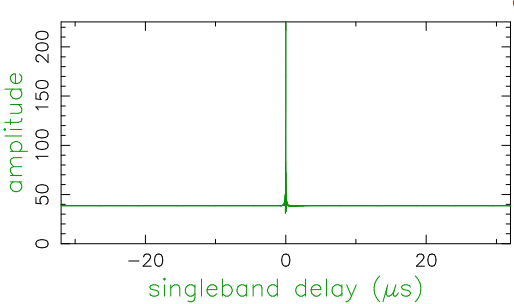
Group delay (usec) (SBD) -3.08665625000E-03 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) -3.08666E-03 +/- 1.0E-07
 Sband delay (usec) -3.23675000000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) -3.23675E-03 +/- 8.1E-07
 Phase delay (usec) 1.10850862054E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 1.10851E-06 +/- 3.5E-10
 Delay rate (us/s) -2.54372185431E-10 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -2.54372E-10 +/- 2.0E-12
 Total phase (deg) 34.4 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 34.4 +/- 0.0

ph/seg (deg) 0.7 0.0 Theor. Amplitude 225.516 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 11.1 0.0 Search (2048X32) 222.353 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 23.7 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.1 0.0 Inc. seg. avg. 225.184 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 B: az 295.3 el 36.1 pa 51.0 B: az 295.3 el 36.1 pa 51.0 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/BB..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/BB.W.15.37F3IY simultaneous interpolator

multiband delay (μ s)

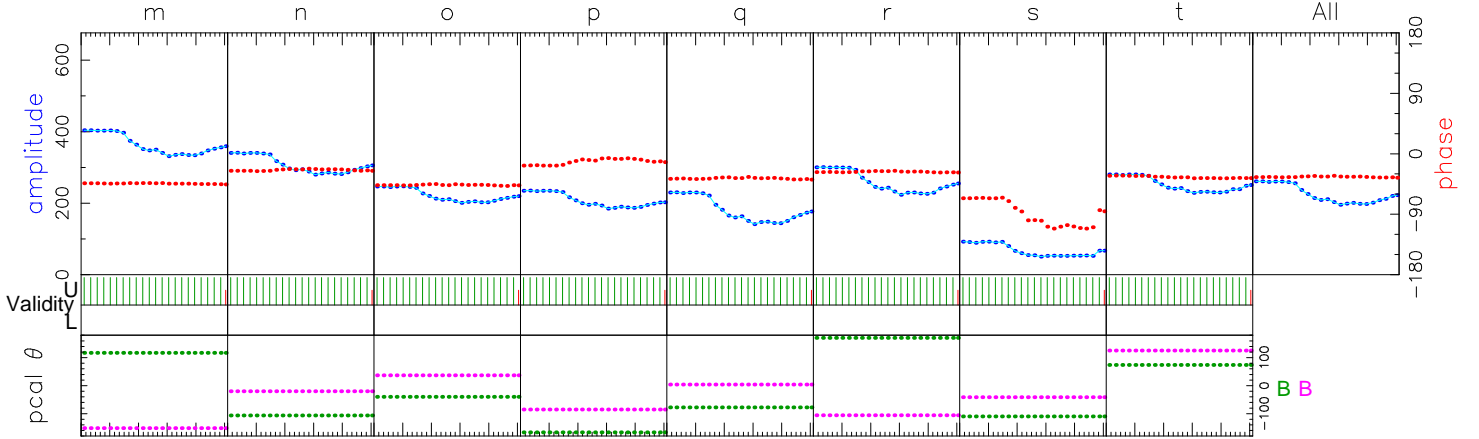


Fringe quality 6
 Error code G
 SNR 10681.1
 Int time 299.971
 Amp 225.516
 Phase -34.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.003237
 MBD 0.003087
 Fringe rate (Hz)
 0.000022
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:112941
 2023:348:201250
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"



Avgd. Xpower Spectrum (MHz)

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

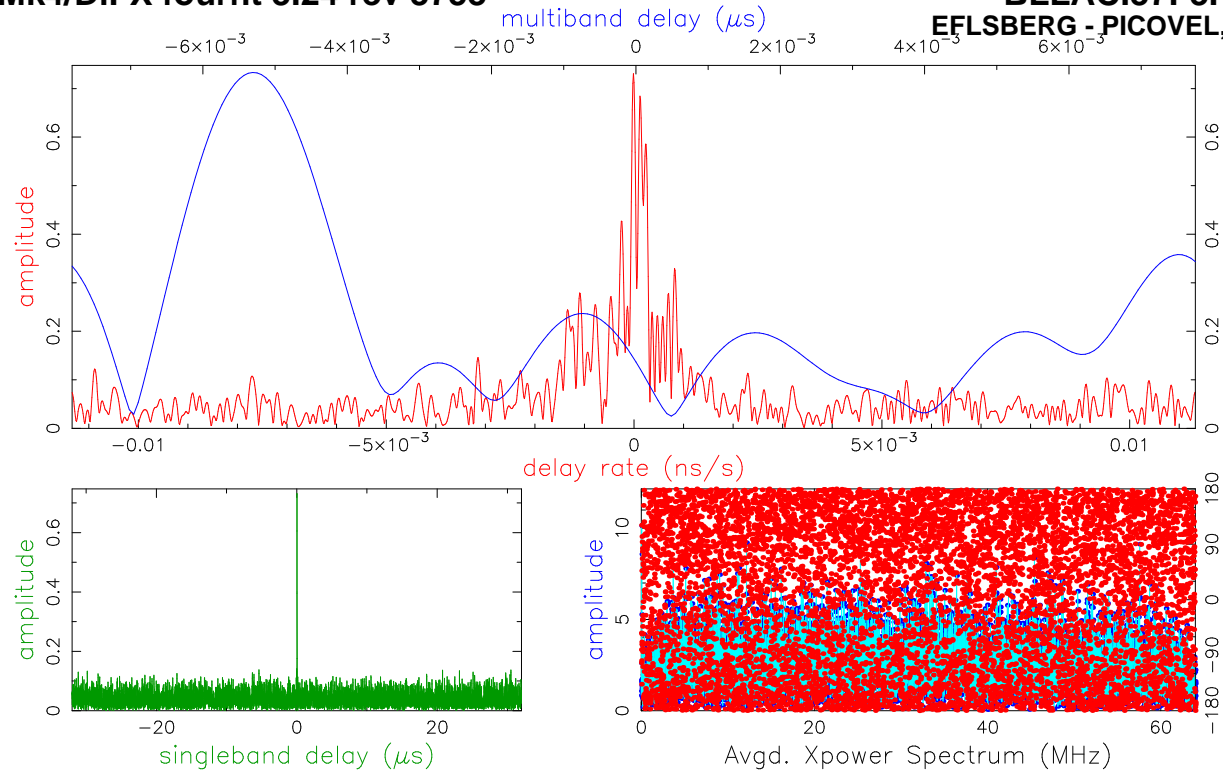


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-44.3	-24.2	-46.5	-12.1	-36.7	-26.8	-84.1	-34.6	Phase	-34.4
	364.1	307.7	221.6	207.3	181.4	258.7	64.7	251.9	Ampl.	232.2
	8193.4	8194.4	8194.2	8192.6	8194.6	8194.3	8196.6	8191.7	Sbd box	8193.8
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
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) 3.086656250000E-03 Apriori delay (usec) 0.000000000000E+00 Resid mbdelay (usec) 3.08666E-03 +/- 1.0E-07
 Sband delay (usec) 3.236750000000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 3.23675E-03 +/- 8.1E-07
 Phase delay (usec) -1.10850862050E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -1.10851E-06 +/- 3.5E-10
 Delay rate (us/s) 2.54372185431E-10 Apriori rate (us/s) 0.000000000000E+00 Resid rate (us/s) 2.54372E-10 +/- 2.0E-12
 Total phase (deg) -34.4 Apriori accel (us/s/s) 0.000000000000E+00 Resid phase (deg) -34.4 +/- 0.0

RMS Theor. Amplitude 225.516 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.7 0.0 Search (2048X32) 222.353 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 11.1 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 23.7 0.0 Inc. seg. avg. 225.184 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 37.1 0.0 Inc. frq. avg. 232.159 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00
 B: az 295.3 el 36.1 pa 51.0 B: az 295.3 el 36.1 pa 51.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/BB..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/BB.W.16.37F3IY

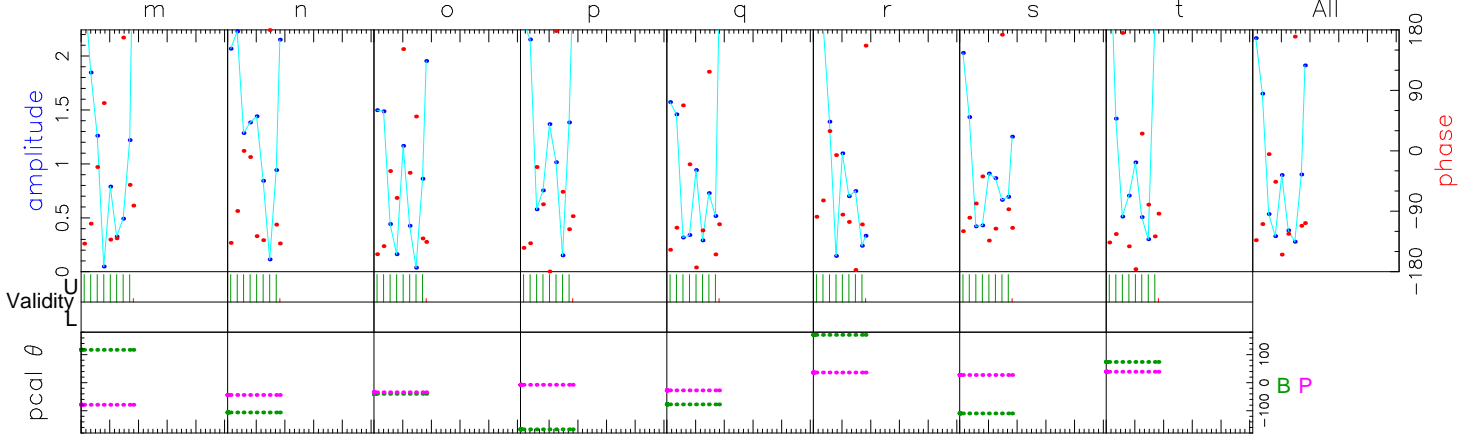


Fringe quality 6

SNR 21.3
Int time 108.123
Amp 0.748
Phase -119.8
PFD 0.0e+00
Delays (us)
SBD 0.033218
MBD -0.005219
Fringe rate (Hz)
-0.001301
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f241a
Exper # 1234
Yr:day 2024:109
Start 131500.00
Stop 132000.03
FRT 131730.00
Corr/FF/build
2024:110:094732
2024:110:095552
2023:314:152938
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979897"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-106.5	-97.8	-145.0	-136.8	-147.3	-85.4	-112.5	-135.1	Phase	-119.8
	0.8	0.8	0.5	1.0	0.5	0.8	0.8	1.1	Ampl.	0.8
	8200.3	8201.1	8201.7	8202.1	8202.3	8201.6	8201.9	8200.9	Sbd box	8201.5
U/L	212/0	212/0	212/0	212/0	212/0	212/0	212/0	212/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	118:-79	-106:-44	-40:-34	-167:-8	-77:-28	171:36	-110:27	74:39	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

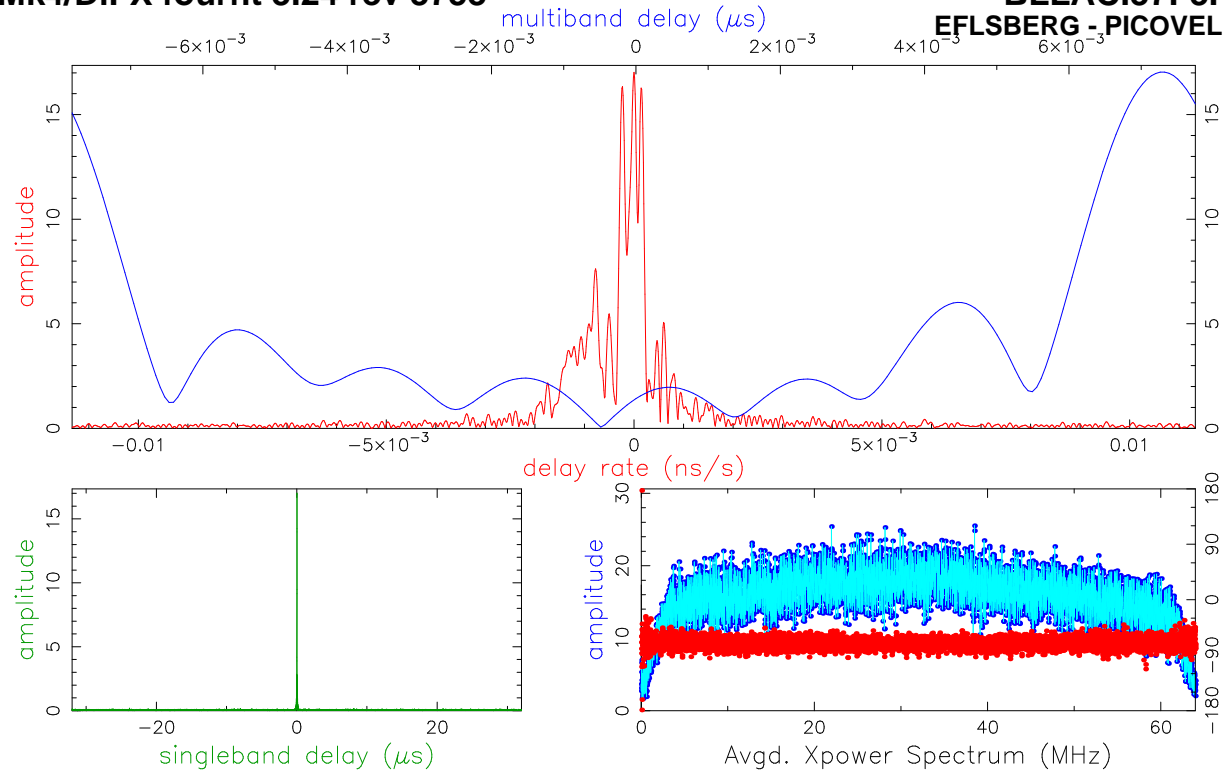
Group delay (usec) (SBD) -1.44540115891E+02 Apriori delay (usec) -1.44566146764E+02 Resid mbdelay (usec) -5.21913E-03 +/- 5.1E-05
 Sband delay (usec) -1.44532929014E+02 Apriori clock (usec) -3.4491817E+01 Resid sbdelay (usec) 3.32178E-02 +/- 4.1E-04
 Phase delay (usec) -1.44566150628E+02 Apriori clockrate (us/s) 9.9152023E-08 Resid phdelay (usec) -3.86425E-06 +/- 1.7E-07
 Delay rate (us/s) 1.48335901803E-01 Apriori rate (us/s) 1.48335916907E-01 Resid rate (us/s) -1.51036E-08 +/- 2.8E-09
 Total phase (deg) -77.4 Apriori accel (us/s/s) 1.34450581884E-05 Resid phase (deg) -119.8 +/- 5.4

RMS Theor. Amplitude 0.748 +/- 0.035 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 55.6 7.8 Search (2048X32) 0.729 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 89.2 13.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 25.2 7.6 Inc. seg. avg. 0.885 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 25.1 13.3 Inc. frq. avg. 0.775 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 295.3 el 36.1 pa 51.0 P: az 299.5 el 36.5 pa 70.0 u,v (fr/asec) -1124.808 2083.840 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/BP..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/BP.W.10.37F3IY

Mk4/DiFX fourfit 3.24 rev 3753

BLLAC.37F3IY, No0006, BP
EFLSBERG - PICOVEL, fgroup W, pol LL

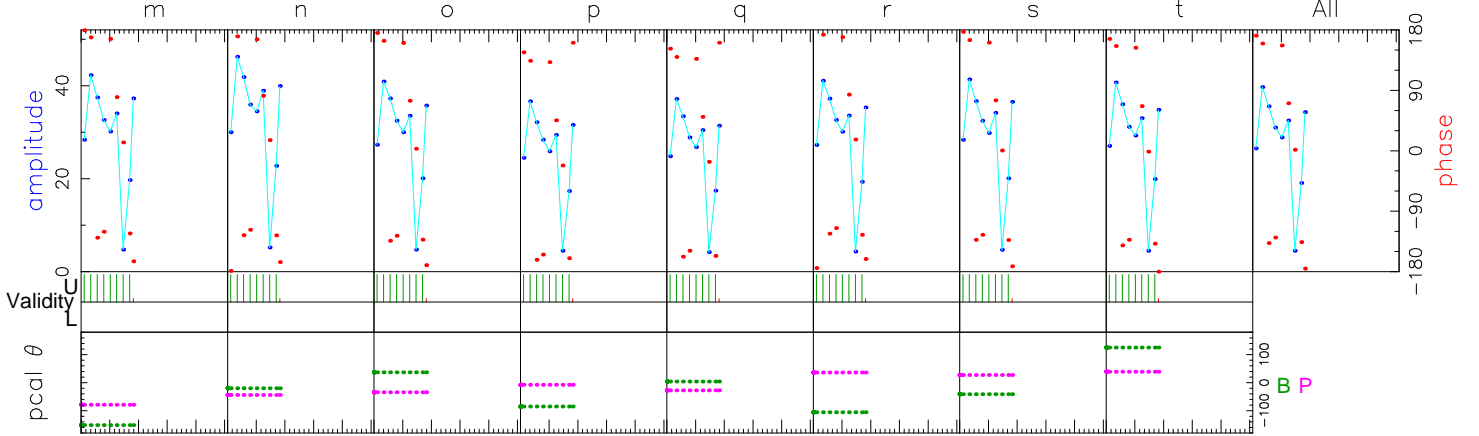


Fringe quality 4

SNR 493.5
Int time 108.123
Amp 17.355
Phase -179.3
PFD 0.0e+00
Delays (us)
SBD 0.029174
MBD 0.007341
Fringe rate (Hz) 0.000008
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. f241a
Exper # 1234
Yr:day 2024:109
Start 131500.00
Stop 132000.03
FRT 131730.00
Corr/FF/build
2024:110:094732
2024:110:095200
2023:314:152938
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979897"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 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	212/0	212/0	212/0	212/0	212/0	212/0	212/0	212/0		
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:-79	-20:-44	37:-34	-85:-8	4:-28	-106:36	-41:27	125:39		
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) -1.44543181077E+02 Apriori delay (usec) -1.44566146764E+02 Resid mbdelay (usec) 7.34069E-03 +/- 2.2E-06
 Sband delay (usec) -1.44536972764E+02 Apriori clock (usec) -3.4491817E+01 Resid sbdelay (usec) 2.91740E-02 +/- 1.7E-05
 Phase delay (usec) -1.44566152545E+02 Apriori clockrate (us/s) 9.9152023E-08 Resid phdelay (usec) -5.78109E-06 +/- 7.5E-09
 Delay rate (us/s) 1.48335916999E-01 Apriori rate (us/s) 1.48335916907E-01 Resid rate (us/s) 9.21125E-11 +/- 1.2E-10
 Total phase (deg) -136.9 Apriori accel (us/s/s) 1.34450581884E-05 Resid phase (deg) -179.3 +/- 0.2

RMS Theor. Amplitude 17.355 +/- 0.035 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 79.6 0.3 Search (2048X32) 17.031 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 82.7 0.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 15.5 0.3 Inc. seg. avg. 27.349 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 7.2 0.6 Inc. frq. avg. 17.469 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 295.3 el 36.1 pa 51.0 P: az 299.5 el 36.5 pa 70.0 u,v (fr/asec) -1124.808 2083.840 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/BP..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/BP.W.1.37F3IY

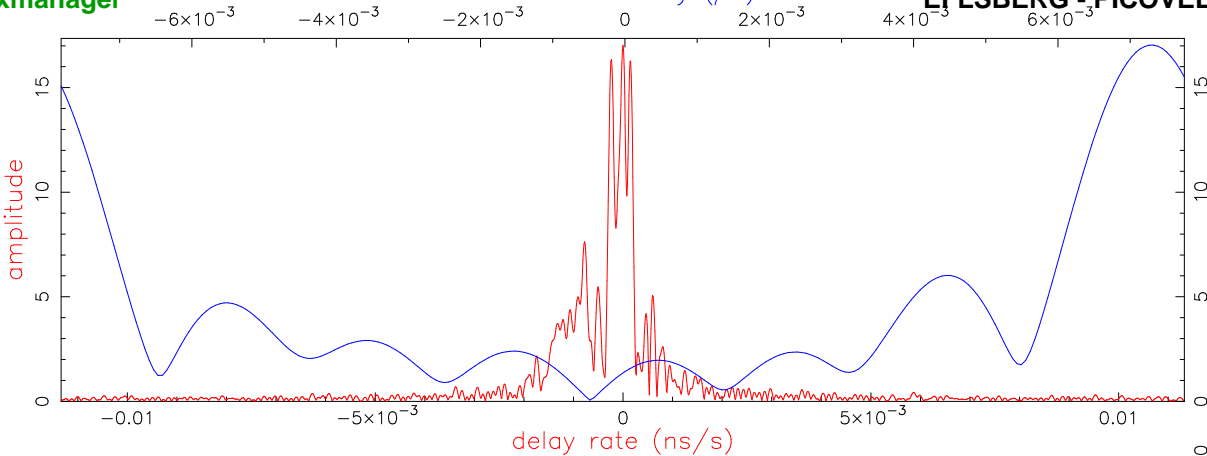
Mk4/DiFX fourfit 3.24 rev 3753

fxmanager

BLLAC.37F3IY, No0006, BP

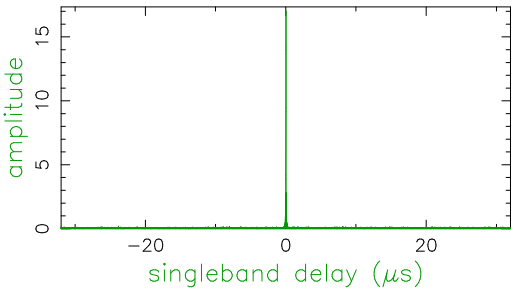
EFLSBERG - PICOVEL, fgroup W, pol LL

multiband delay (μ s)

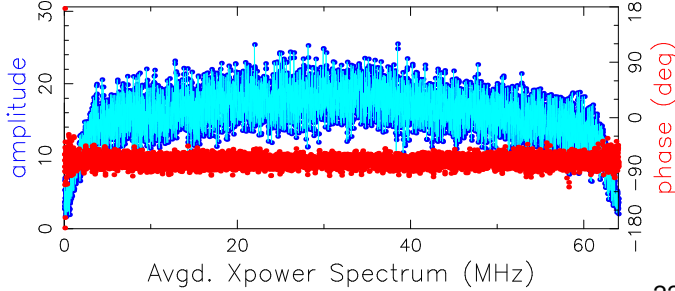


Fringe quality 4

SNR 493.5
 Int time 108.123
 Amp 17.355
 Phase -179.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.029174
 MBD 0.007341
 Fringe rate (Hz) 0.000008
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

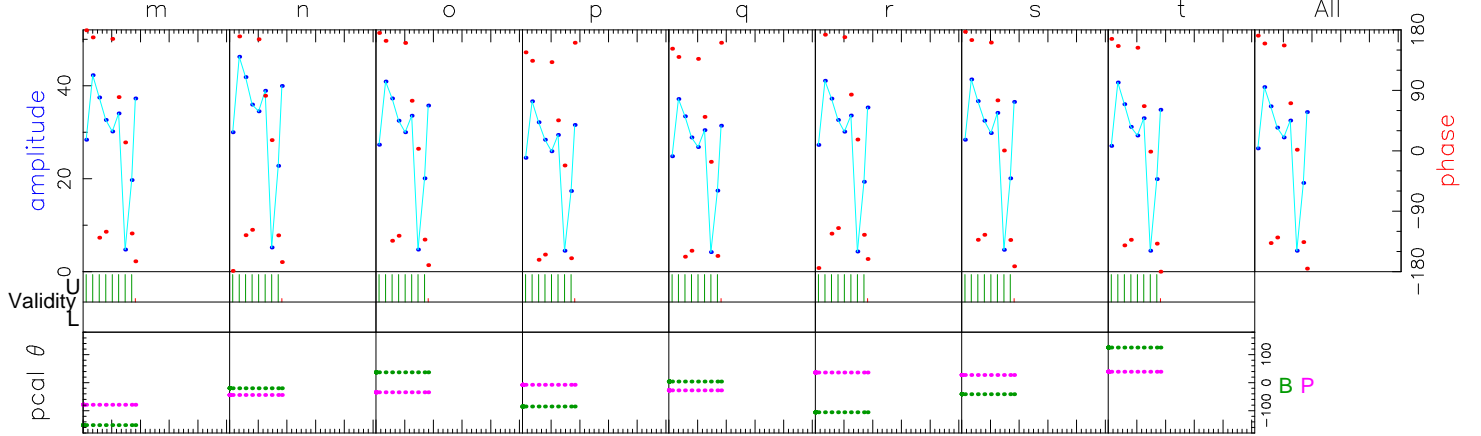


delay rate (ns/s)



Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:113628
 2023:348:201250
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 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
	-170.3	-169.2	-175.1	155.7	160.5	-165.8	-174.5	177.1	Phase	-179.3
	18.0	19.8	17.8	15.5	15.9	17.7	17.9	17.3	Ampl.	17.5
	8199.1	8200.1	8200.7	8201.1	8201.3	8200.9	8200.9	8199.6	Sbd box	8200.5
U/L	212/0	212/0	212/0	212/0	212/0	212/0	212/0	212/0	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	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	-1.44543181077E+02		Apriori delay (usec)	-1.44566146764E+02	Resid mbdelay (usec)	7.34069E-03	+/-	2.2E-06		
Sband delay (usec)	-1.44536972764E+02		Apriori clock (usec)	-3.4491817E+01	Resid sbdelay (usec)	2.91740E-02	+/-	1.7E-05		
Phase delay (usec)	-1.44566152545E+02		Apriori clockrate (us/s)	9.9152023E-08	Resid phdelay (usec)	-5.78109E-06	+/-	7.5E-09		
Delay rate (us/s)	1.48335916999E-01		Apriori rate (us/s)	1.48335916907E-01	Resid rate (us/s)	9.21125E-11	+/-	1.2E-10		
Total phase (deg)		-136.9	Apriori accel (us/s/s)	1.34450581884E-05	Resid phase (deg)	-179.3	+/-	0.2		

RMS Theor. Amplitude 17.355 +/- 0.035 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 79.6 0.3 Search (2048X32) 17.031 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 82.7 0.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 15.5 0.3 Inc. seg. avg. 27.349 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 7.2 0.6 Inc. frq. avg. 17.469 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00
 B: az 295.3 el 36.1 pa 51.0 P: az 299.5 el 36.5 pa 70.0 u,v (fr/asec) -1124.808 2083.840 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/BP..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/BP.W.21.37F3IY

Mk4/DiFX fourfit 3.24 rev 3753

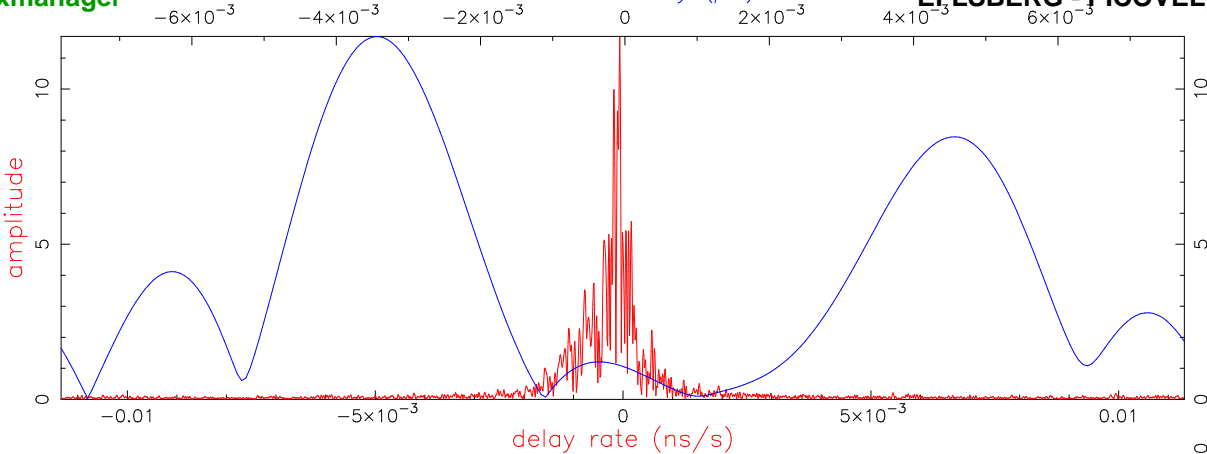
fxmanager

BLLAC.37F3IY, No0006, BP

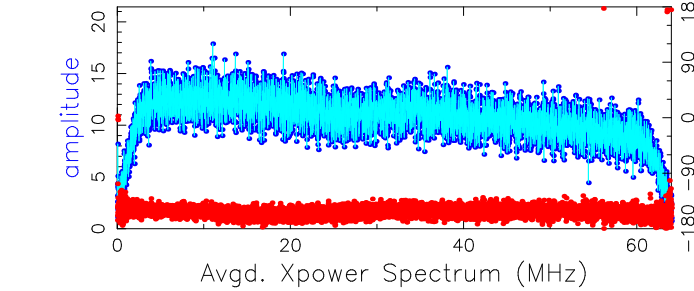
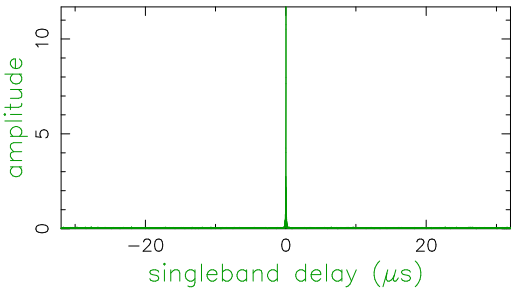
EFLSBERG - PICOVEL, fgroup W, pol RR

multiband delay (μ s)

Fringe quality 2

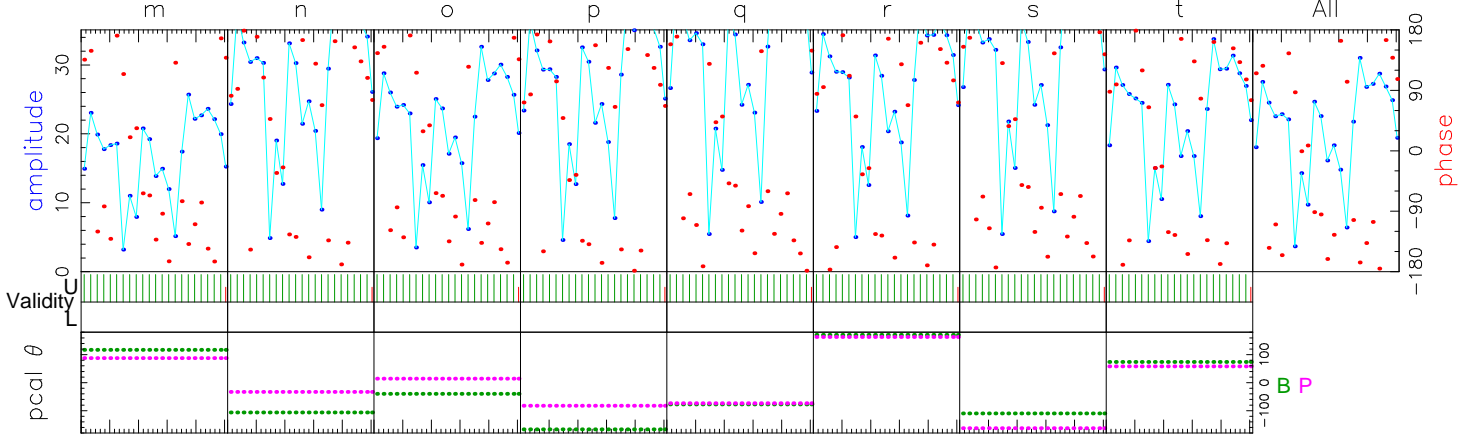


SNR 554.1
 Int time 299.971
 Amp 11.699
 Phase -160.5
 PFD 0.0e+00
 Delays (μ s)
 SBD 0.027118
 MBD -0.003445
 Fringe rate (Hz)
 -0.005635
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:113748
 2023:348:201250
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 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
	-132.2	166.2	-132.6	158.1	-117.4	166.4	-120.6	169.6	Phase	-160.5
	9.5	15.8	12.3	15.5	17.6	14.8	17.2	12.8	Ampl.	14.4
	8197.1	8198.9	8199.4	8199.4	8200.1	8199.3	8199.8	8198.1	Sbd box	8199.9
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	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	
									Tracks	
Group delay (usec) (SBD)	-1.44538342024E+02					-1.44566146764E+02			Resid mbdelay (usec)	-3.44526E-03 +/- 2.0E-06
Sband delay (usec)	-1.44539029014E+02					-3.4491817E+01			Resid sbdelay (usec)	2.71177E-02 +/- 1.6E-05
Phase delay (usec)	-1.44566151941E+02					9.9152023E-08			Resid phdelay (usec)	-5.17684E-06 +/- 6.7E-09
Delay rate (us/s)	1.48335851492E-01					1.48335916907E-01			Resid rate (us/s)	-6.54147E-08 +/- 3.8E-11
Total phase (deg)			-118.2			1.34450581884E-05			Resid phase (deg)	-160.5 +/- 0.2

RMS Theor. Amplitude 11.699 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 73.7 0.5 Search (2048X32) 11.662 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 97.7 0.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 40.5 0.3 Inc. seg. avg. 20.683 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 31.9 0.5 Inc. frq. avg. 14.431 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00
 B: az 295.3 el 36.1 pa 51.0 P: az 299.5 el 36.5 pa 70.0 u,v (fr/asec) -1124.808 2083.840 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/BP..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/BP.W.22.37F3IY

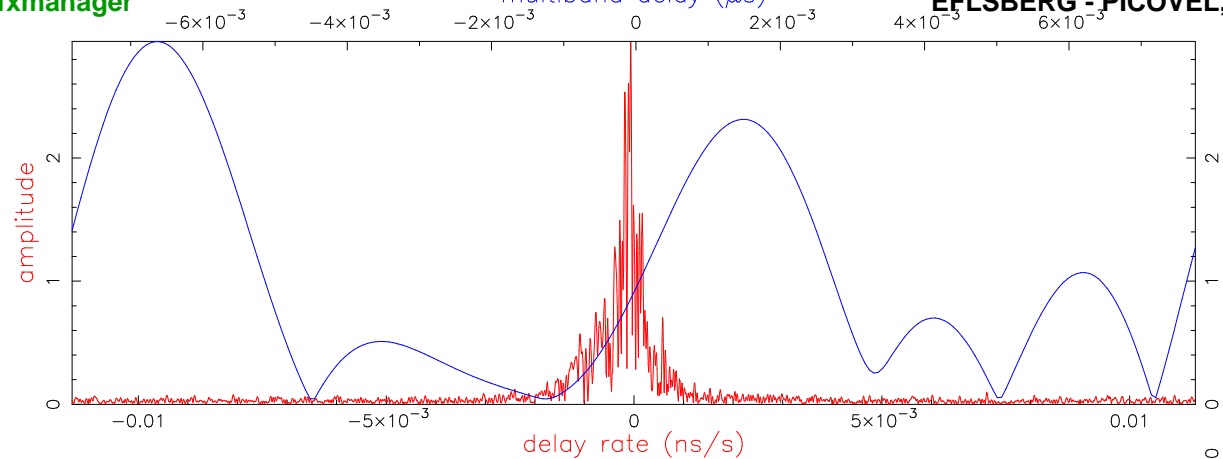
Mk4/DiFX fourfit 3.24 rev 3753

fxmanager

BLLAC.37F3IY, No0006, BP

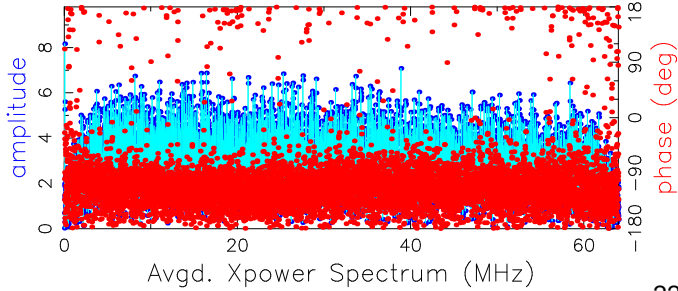
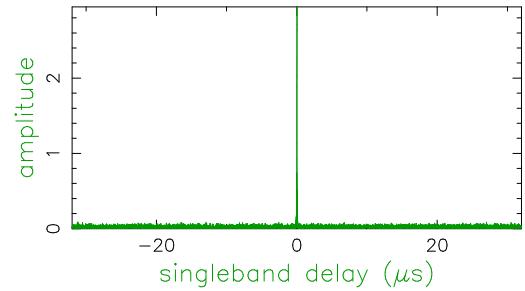
EFLSBERG - PICOVEL, fgroup W, pol LR

multiband delay (μ s)



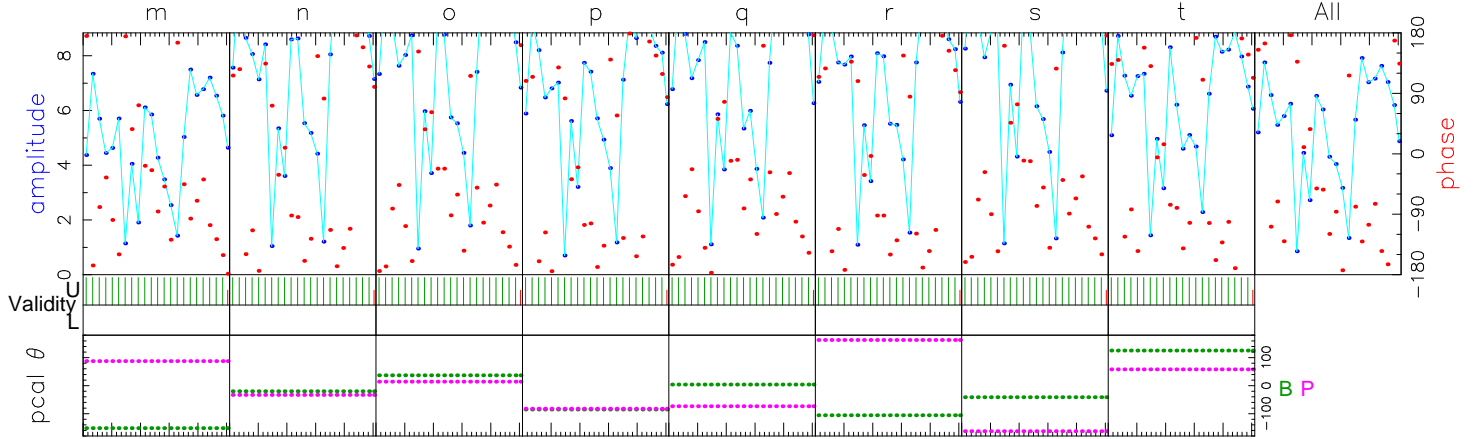
Fringe quality 2

SNR 139.6
 Int time 299.971
 Amp 2.947
 Phase -126.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.023717
 MBD -0.006625
 Fringe rate (Hz)
 -0.005563
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:113911
 2023:348:201250
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 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
	-91.9	-165.8	-98.6	-173.3	-81.9	-165.2	-85.4	-148.8	Phase	-126.3
	2.8	4.0	4.0	3.6	3.9	3.8	4.2	3.4	Ampl.	3.7
	8196.6	8197.8	8198.4	8198.8	8199.2	8198.5	8198.7	8197.4	Sbd box	8199.1
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	-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) -1.44541521899E+02 Apriori delay (usec) -1.44566146764E+02 Resid mbdelay (usec) -6.62513E-03 +/- 7.8E-06
 Sband delay (usec) -1.44542430264E+02 Apriori clock (usec) -3.4491817E+01 Resid sbdelay (usec) 2.37165E-02 +/- 6.2E-05
 Phase delay (usec) -1.44566150836E+02 Apriori clockrate (us/s) 9.9152023E-08 Resid phdelay (usec) -4.07223E-06 +/- 2.6E-08
 Delay rate (us/s) 1.48335852325E-01 Apriori rate (us/s) 1.48335916907E-01 Resid rate (us/s) -6.45822E-08 +/- 1.5E-10
 Total phase (deg) -83.9 Apriori accel (us/s/s) 1.34450581884E-05 Resid phase (deg) -126.3 +/- 0.8

ph/seg (deg) 72.2 2.0 Search (2048X32) 2.875 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 105.9 3.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 43.6 1.2 Inc. seg. avg. 5.401 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 30.4 2.0 Inc. frq. avg. 3.729 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: 8192 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 295.3 el 36.1 pa 51.0 P: az 299.5 el 36.5 pa 70.0 u,v (fr/asec) -1124.808 2083.840 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/BP..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/BP.W.23.37F3IY

Mk4/DiFX fourfit 3.24 rev 3753

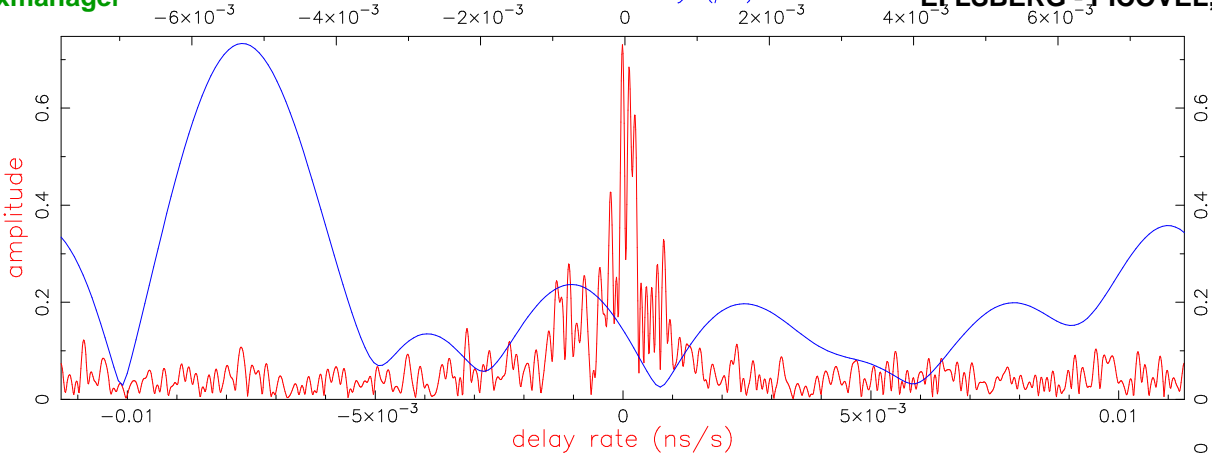
fxmanager

BLLAC.37F3IY, No0006, BP

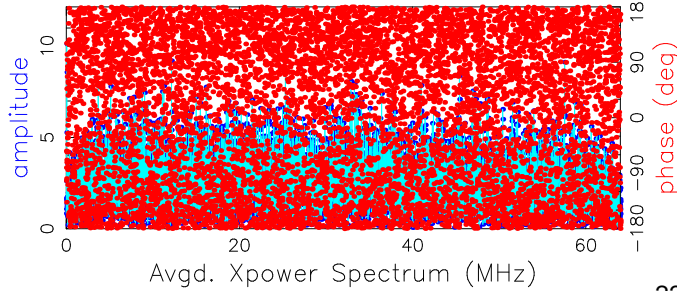
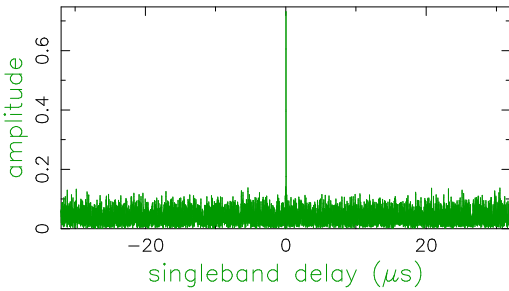
EFLSBERG - PICOVEL, fgroup W, pol RL

multiband delay (μ s)

Fringe quality 6

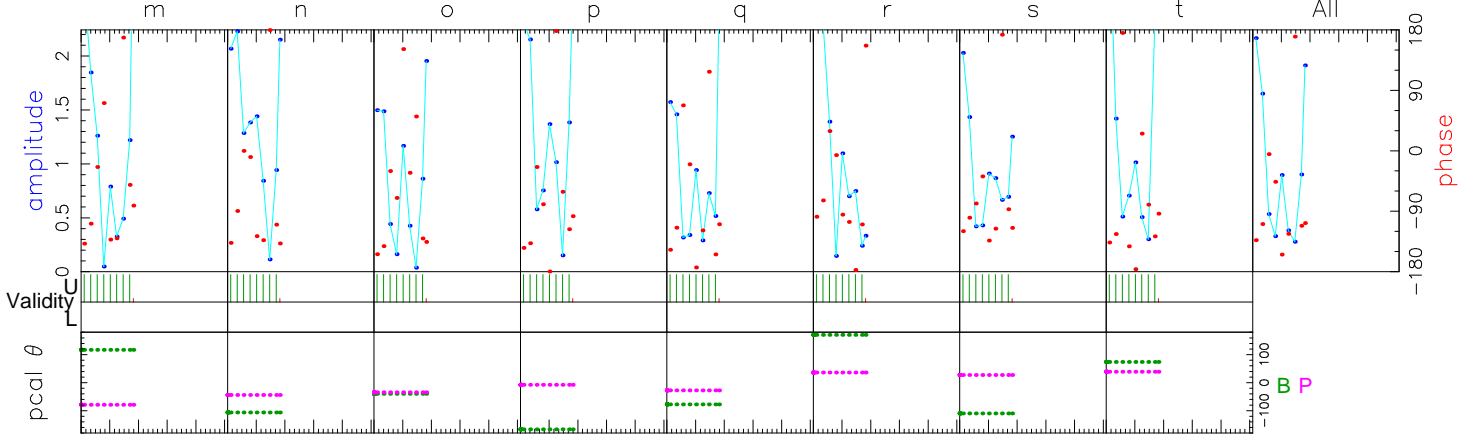


SNR 21.3
 Int time 108.123
 Amp 0.748
 Phase -119.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.033218
 MBD -0.005219
 Fringe rate (Hz)
 -0.001301
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:114031
 2023:348:201250
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"

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



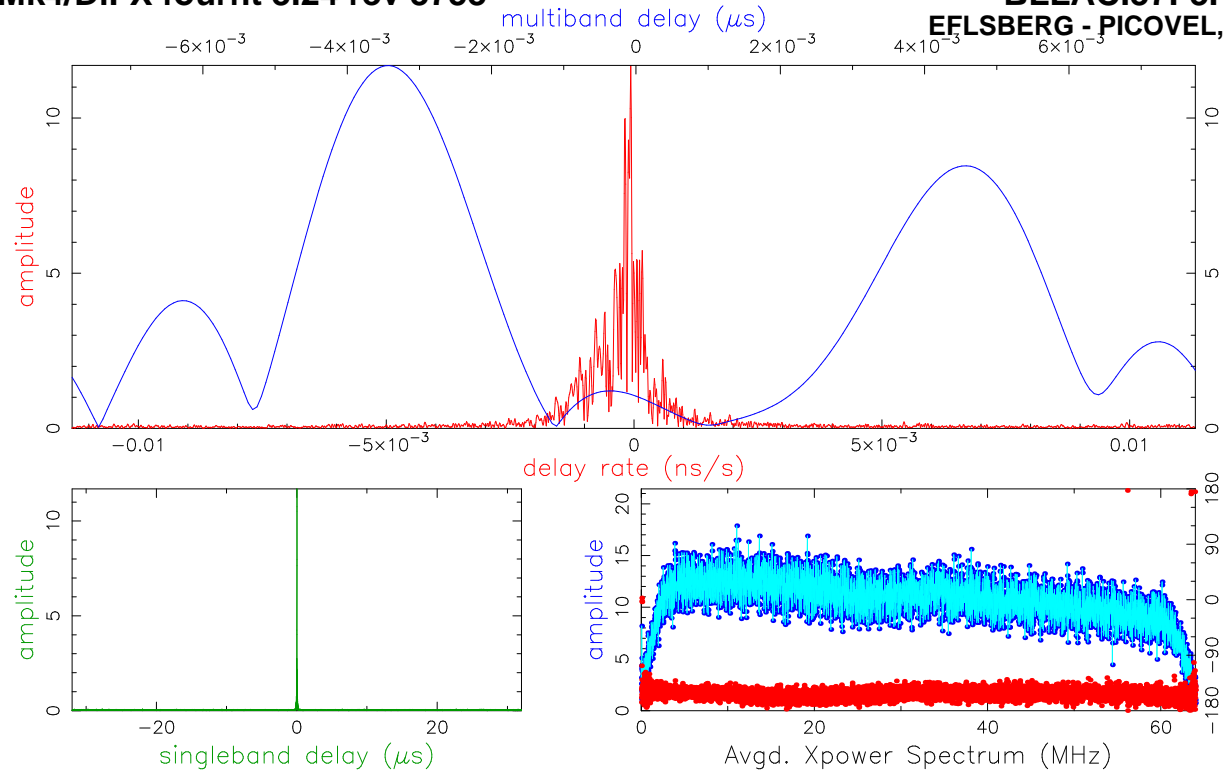
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-106.5	-97.8	-145.0	-136.8	-147.3	-85.4	-112.5	-135.1	Phase	-119.8
	0.8	0.8	0.5	1.0	0.5	0.8	0.8	1.1	Ampl.	0.8
	8200.3	8201.1	8201.7	8202.1	8202.3	8201.6	8201.9	8200.9	Sbd box	8201.5
U/L	212/0	212/0	212/0	212/0	212/0	212/0	212/0	212/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	118:-79	-106:-44	-40:-34	-167:-8	-77:-28	171:36	-110:27	74:39	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-1.44540115891E+02	Apriori delay (usec)	-1.44566146764E+02	Resid mbdelay (usec)	-5.21913E-03	+/-	5.1E-05
Sband delay (usec)	-1.44532929014E+02	Apriori clock (usec)	-3.4491817E+01	Resid sbdelay (usec)	3.32178E-02	+/-	4.1E-04
Phase delay (usec)	-1.44566150628E+02	Apriori clockrate (us/s)	9.9152023E-08	Resid phdelay (usec)	-3.86425E-06	+/-	1.7E-07
Delay rate (us/s)	1.48335901803E-01	Apriori rate (us/s)	1.48335916907E-01	Resid rate (us/s)	-1.51036E-08	+/-	2.8E-09
Total phase (deg)	-77.4	Apriori accel (us/s/s)	1.34450581884E-05	Resid phase (deg)	-119.8	+/-	5.4

ph/seg (deg)	55.6	RMS	7.8	Theor.	0.748 +/- 0.035	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	89.2	Search (2048X32)	0.729	Amplitude		Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000	
ph/frq (deg)	25.2	Interp.	0.000	Search		Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	25.1	Inc. seg. avg.	0.885	Inc. seg. avg.		Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	0.775	Inc. frq. avg.		Data rate (Mb/s):	2048	nlags: 8192 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 295.3 el 36.1 pa 51.0 P: az 299.5 el 36.5 pa 70.0 u, v (fr/asec) -1124.808 2083.840 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/BP..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/BP.W.24.37F3IY

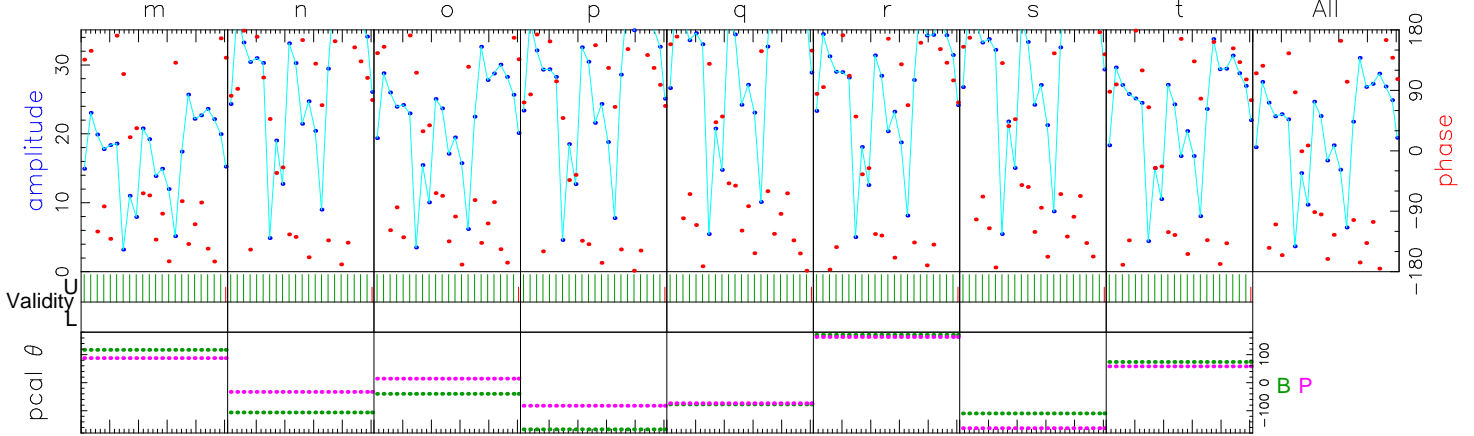


Fringe quality 2

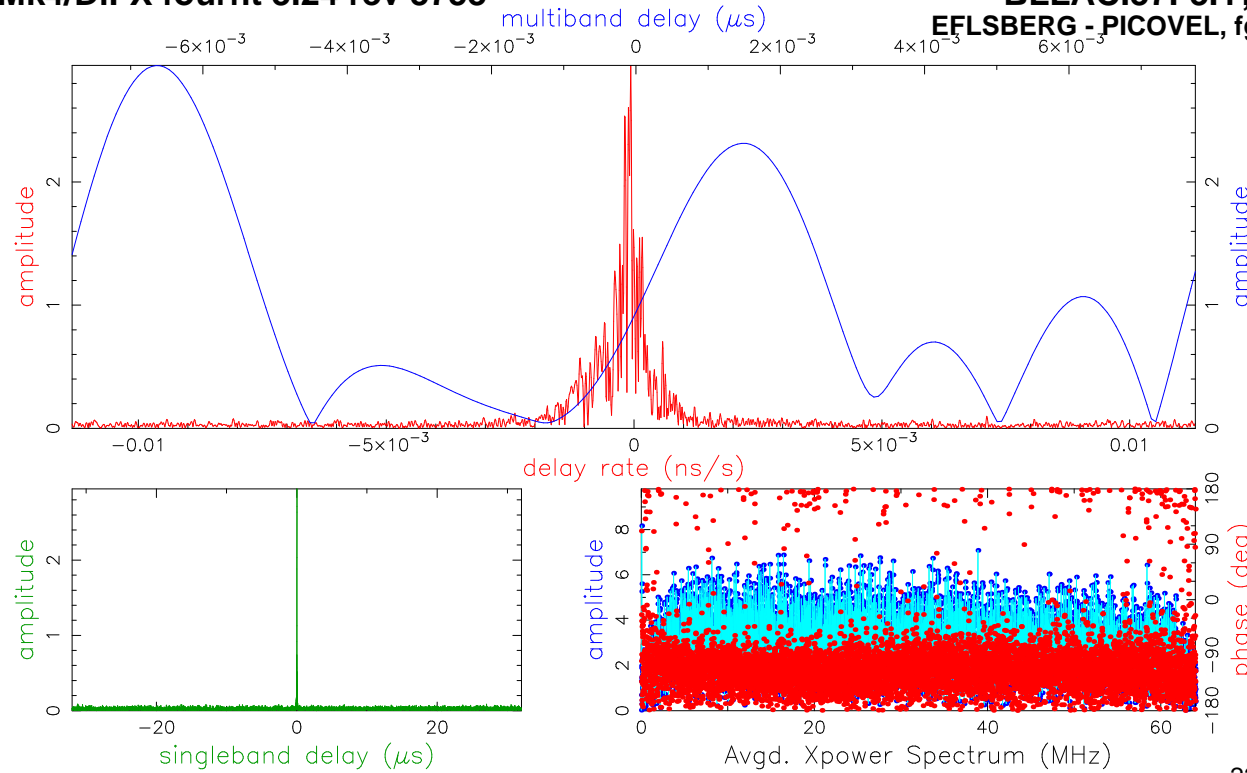
SNR 554.1
Int time 299.971
Amp 11.699
Phase -160.5
PFD 0.0e+00
Delays (us)
SBD 0.027118
MBD -0.003445
Fringe rate (Hz)
-0.005635
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f241a
Exper # 1234
Yr:day 2024:109
Start 131500.00
Stop 132000.03
FRT 131730.00
Corr/FF/build
2024:110:094732
2024:110:095318
2023:314:152938
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979897"

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

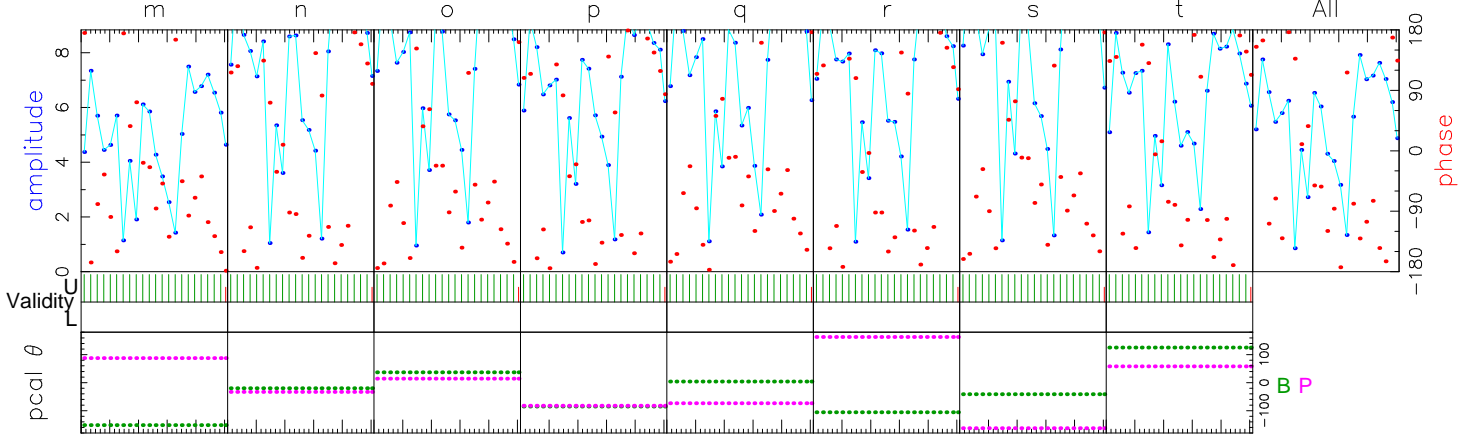


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	-132.2	166.2	-132.6	158.1	-117.4	166.4	-120.6	169.6	Phase	-160.5	
	9.5	15.8	12.3	15.5	17.6	14.8	17.2	12.8	Ampl.	14.4	
	8197.1	8198.9	8199.4	8199.4	8200.1	8199.3	8199.8	8198.1	Sbd box	8199.9	
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used		
B	0	0	0	0	0	0	0	0	PC freqs		
P	0	0	0	0	0	0	0	0	PC freqs		
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
B:P	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		
									Tracks		
Group delay (usec) (SBD)	-1.44538342024E+02			Apriori delay (usec)	-1.44566146764E+02			Resid mbdelay (usec)	-3.44526E-03	+/- 2.0E-06	
Sband delay (usec)	-1.44539029014E+02			Apriori clock (usec)	-3.4491817E+01			Resid sbdelay (usec)	2.71177E-02	+/- 1.6E-05	
Phase delay (usec)	-1.44566151941E+02			Apriori clockrate (us/s)	9.9152023E-08			Resid phdelay (usec)	-5.17684E-06	+/- 6.7E-09	
Delay rate (us/s)	1.48335851492E-01			Apriori rate (us/s)	1.48335916907E-01			Resid rate (us/s)	-6.54147E-08	+/- 3.8E-11	
Total phase (deg)		-118.2		Apriori accel (us/s/s)	1.34450581884E-05			Resid phase (deg)	-160.5	+/- 0.2	
	RMS	Theor.	Amplitude	11.699 +/- 0.021				Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	73.7	0.5	Search (2048X32)	11.662				Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000	
amp/seg (%)	97.7	0.9	Interp.	0.000				Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	40.5	0.3	Inc. seg. avg.	20.683				Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
amp/frq (%)	31.9	0.5	Inc. frq. avg.	14.431				Data rate(Mb/s): 2048	nlags: 8192 t_cohere infinite	ion window (TEC)	0.00 0.00
B: az 295.3 el 36.1 pa 51.0			P: az 299.5 el 36.5 pa 70.0					u,v (fr/asec) -1124.808 2083.840		simultaneous interpolator	
Control file: cf_1234_gmva			Input file: /Exps/f241a/FRINGE/1234/No0006/BP..37F3IY					Output file: /Exps/f241a/FRINGE/1234/No0006/BP.W.4.37F3IY			

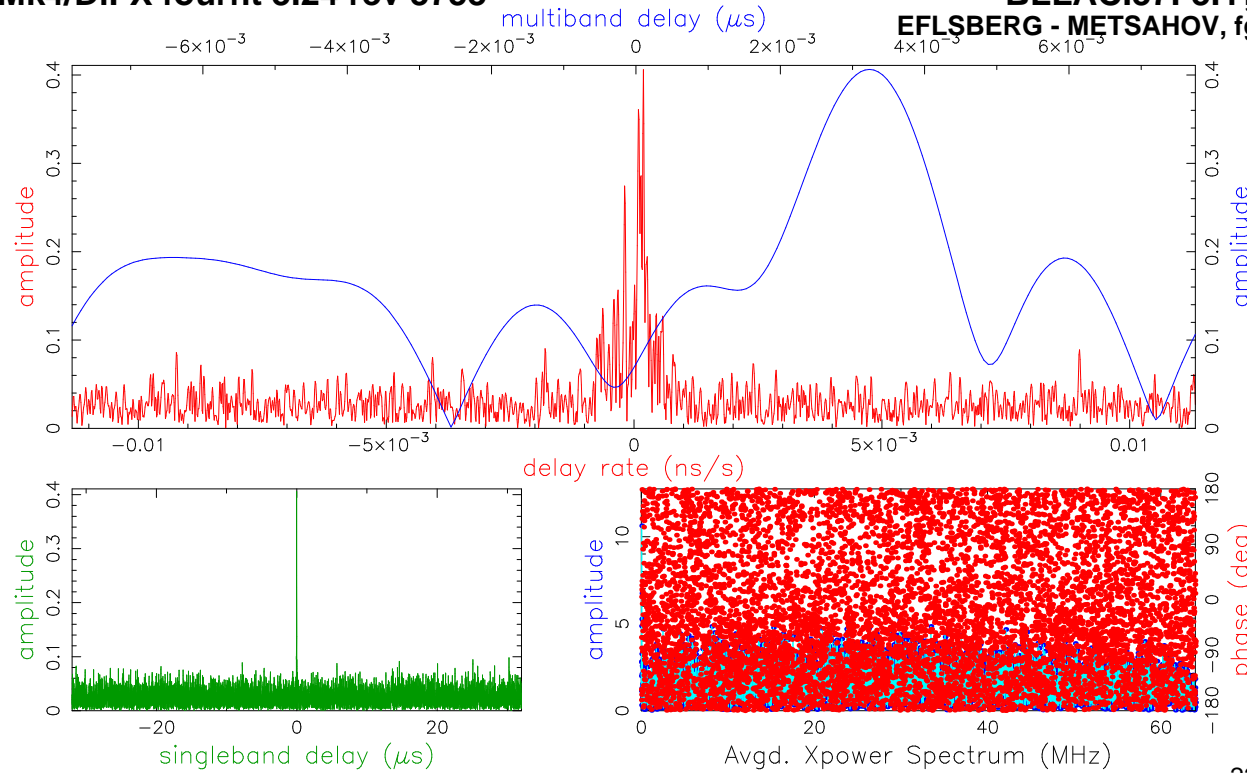


Fringe quality 2
 SNR 139.6
 Int time 299.971
 Amp 2.947
 Phase -126.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.023717
 MBD -0.006625
 Fringe rate (Hz)
 -0.005563
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:095436
 2023:314:152938
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 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
	-91.9	-165.8	-98.6	-173.3	-81.9	-165.2	-85.4	-148.8	Phase	-126.3
	2.8	4.0	4.0	3.6	3.9	3.8	4.2	3.4	Ampl.	3.7
	8196.6	8197.8	8198.4	8198.8	8199.2	8198.5	8198.7	8197.4	Sbd box	8199.1
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	-151:88	-20:-33	37:15	-85:-82	4:-74	-106:163	-41:-163	125:58	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	-1.44541521899E+02		Apriori delay (usec)		-1.44566146764E+02		Resid mbdelay (usec)		-6.62513E-03	+/- 7.8E-06
Sband delay (usec)	-1.44542430264E+02		Apriori clock (usec)		-3.4491817E+01		Resid sbdelay (usec)		2.37165E-02	+/- 6.2E-05
Phase delay (usec)	-1.44566150836E+02		Apriori clockrate (us/s)		9.9152023E-08		Resid phdelay (usec)		-4.07223E-06	+/- 2.6E-08
Delay rate (us/s)	1.48335852325E-01		Apriori rate (us/s)		1.48335916907E-01		Resid rate (us/s)		-6.45822E-08	+/- 1.5E-10
Total phase (deg)			Apriori accel (us/s/s)		1.34450581884E-05		Resid phase (deg)		-126.3	+/- 0.8
ph/seg (deg)	RMS 72.2	Theor. 2.0	Amplitude 2.947 +/- 0.021	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)		-32.000 32.000
amp/seg (%)	105.9	3.4	Search (2048X32) 2.875	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)		-0.008 0.008
ph/frq (deg)	43.6	1.2	Interp. 0.000	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		nlags: 8192 t_cohere infinite		dr window (ns/s)		-0.011 0.011
amp/frq (%)	30.4	2.0	Inc. seg. avg. 5.401	Data rate(Mb/s): 2048				ion window (TEC)		0.00 0.00
B: az 295.3 el 36.1 pa 51.0	P: az 299.5 el 36.5 pa 70.0		u,v (fr/asec) -1124.808 2083.840						simultaneous interpolator	
Control file: cf_1234_gmva	Input file: /Exps/f241a/FRINGE/1234/No0006/BP..37F3IY		Output file: /Exps/f241a/FRINGE/1234/No0006/BP.W.7.37F3IY							

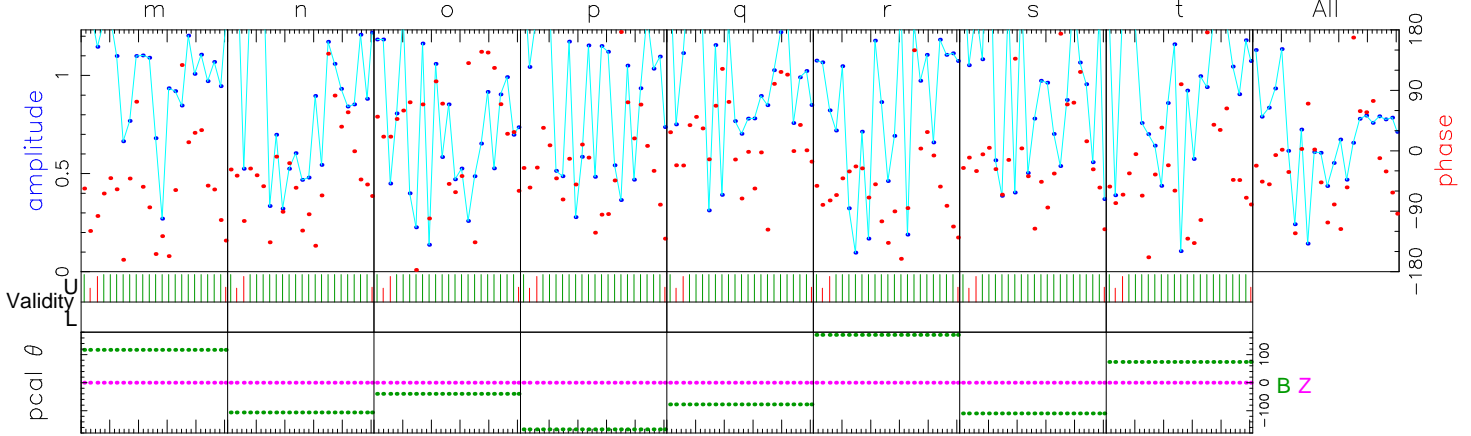


Fringe quality 8

SNR 19.2
Int time 292.388
Amp 0.411
Phase -23.3
PFD 0.0e+00
Delays (us)
SBD -0.021004
MBD 0.003201
Fringe rate (Hz)
0.015873
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f241a
Exper # 1234
Yr:day 2024:109
Start 131500.00
Stop 132000.03
FRT 131730.00
Corr/FF/build
2024:110:094732
2024:110:095700
2023:314:152938
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979897"

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



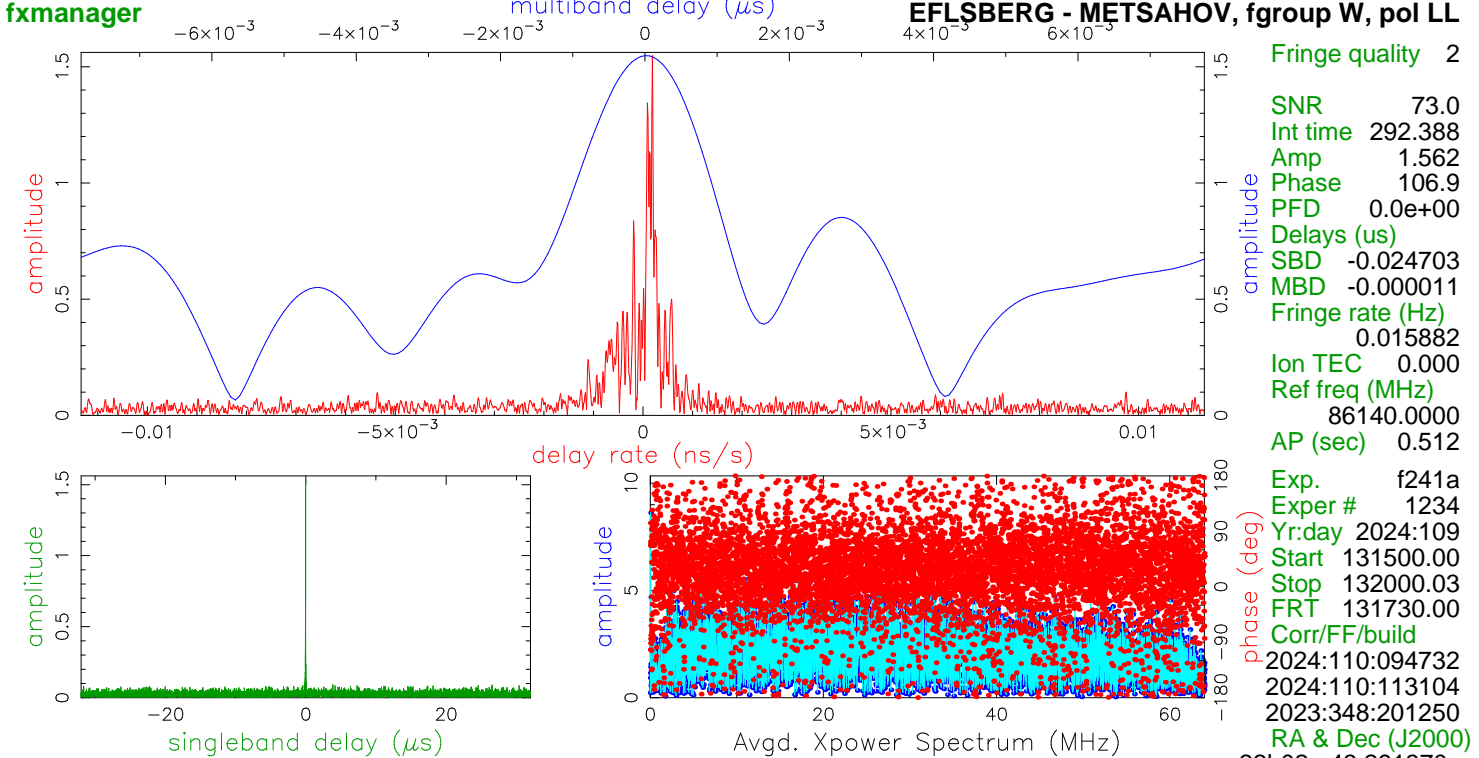
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-62.2	-38.1	58.5	-21.3	32.1	-70.0	-13.9	-43.7	Phase	-23.3
	0.5	0.5	0.4	0.6	0.6	0.5	0.6	0.5	Ampl.	0.5
	8187.0	8187.4	8187.6	8187.2	8187.3	8187.4	8187.6	8186.0	Sbd box	8187.6
U/L	579/0	579/0	579/0	579/0	579/0	579/0	579/0	579/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	1.25511289482E+03		Apriori delay (usec)	1.25514094386E+03	Resid mbdelay (usec)	3.20096E-03	+/-	5.6E-05		
Sband delay (usec)	1.25511993936E+03		Apriori clock (usec)	-3.5527229E+01	Resid sbdelay (usec)	-2.10045E-02	+/-	4.5E-04		
Phase delay (usec)	1.25514094311E+03		Apriori clockrate (us/s)	-3.3620003E-07	Resid phdelay (usec)	-7.50466E-07	+/-	1.9E-07		
Delay rate (us/s)	-1.61748908385E-01		Apriori rate (us/s)	-1.61749092650E-01	Resid rate (us/s)	1.84265E-07	+/-	1.1E-09		
Total phase (deg)		302.1	Apriori accel (us/s/s)	-1.41838672690E-05	Resid phase (deg)	-23.3	+/-	6.0		
ph/seg (deg)	RMS 66.7	Theor. 14.2	Amplitude	0.411 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	88.4	24.8	Search (2048X32)	0.390	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000		
ph/frq (deg)	48.6	8.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	31.6	14.7	Inc. seg. avg.	0.670	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011		
			Inc. frq. avg.	0.514	Data rate(Mb/s):	2048	nlags: 8192 t_cohere infinite	ion window (TEC)	0.00 0.00	
B: az 295.3 el 36.1 pa 51.0		Z: az 300.9 el 31.8 pa 35.2		u, v (fr/asec)	1228.294 -1661.502			simultaneous interpolator		
Control file: cf_1234_gmva		Input file: /Exps/f241a/FRINGE/1234/No0006/BZ..37F3IY		Output file: /Exps/f241a/FRINGE/1234/No0006/BZ.W.12.37F3IY						

Mk4/DiFX fourfit 3.24 rev 3753

fxmanager

BLLAC.37F3IY, No0006, BZ

EFLSBERG - METSAHOV, fgroup W, pol LL

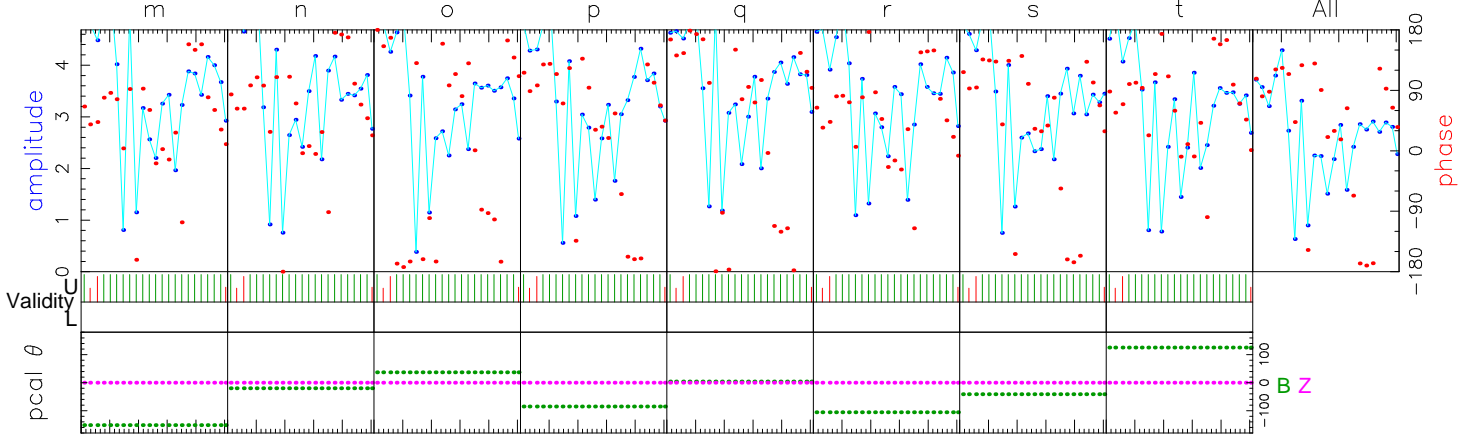


Fringe quality 2

SNR 73.0
 Int time 292.388
 Amp 1.562
 Phase 106.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.024703
 MBD -0.000011
 Fringe rate (Hz)
 0.015882
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:113104
 2023:348:201250
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	69.3	83.5	179.0	115.6	161.4	62.9	117.0	85.1	Phase	106.9
	2.2	2.0	1.9	1.9	2.1	2.0	1.9	1.9	Ampl.	2.0
	8186.6	8186.3	8186.8	8186.4	8186.3	8186.2	8186.2	8185.6	Sbd box	8186.7
U/L	579/0	579/0	579/0	579/0	579/0	579/0	579/0	579/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD) 1.25510968323E+03 Apriori delay (usec) 1.25514094386E+03 Resid mbdelay (usec) -1.06291E-05 +/- 1.5E-05
 Sband delay (usec) 1.25511624086E+03 Apriori clock (usec) -3.5527229E+01 Resid sbdelay (usec) -2.47030E-02 +/- 1.2E-04
 Phase delay (usec) 1.25514094730E+03 Apriori clockrate (us/s) -3.3620003E-07 Resid phdelay (usec) 3.44673E-06 +/- 5.1E-08
 Delay rate (us/s) -1.61748908280E-01 Apriori rate (us/s) -1.61749092650E-01 Resid rate (us/s) 1.84370E-07 +/- 3.0E-10
 Total phase (deg) 72.3 Apriori accel (us/s/s) -1.41838672690E-05 Resid phase (deg) 106.9 +/- 1.6

RMS Theor. Amplitude 1.562 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 66.7 3.7 Search (2048X32) 1.514 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 87.4 6.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 46.0 2.2 Inc. seg. avg. 2.605 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 28.5 3.9 Inc. frq. avg. 1.996 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 295.3 el 36.1 pa 51.0 Z: az 300.9 el 31.8 pa 35.2 u,v (fr/asec) 1228.294 -1661.502 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/BZ..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/BZ.W.17.37F3IY

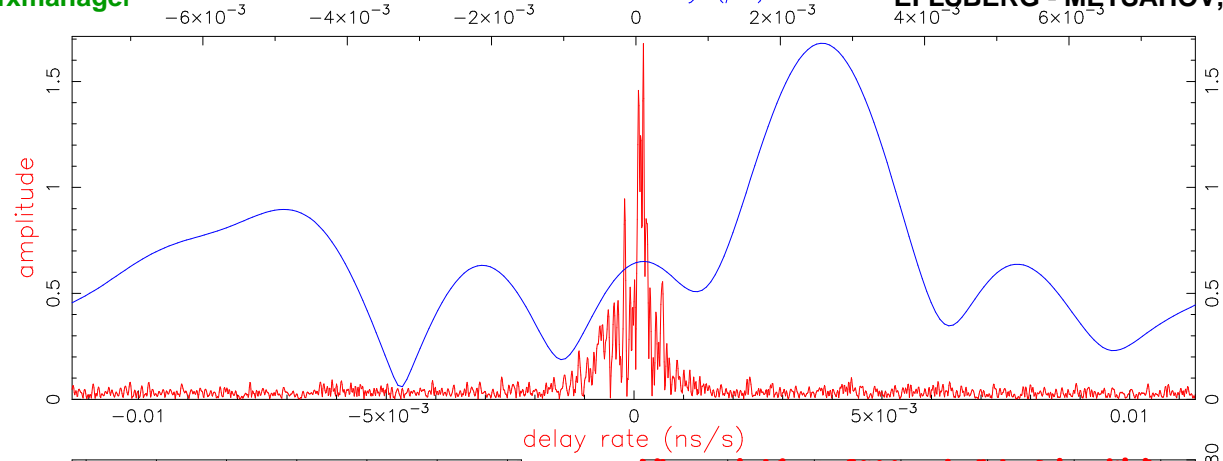
Mk4/DiFX fourfit 3.24 rev 3753

fxmanager

BLLAC.37F3IY, No0006, BZ

EFLSBERG - METSAHOV, fgroup W, pol RR

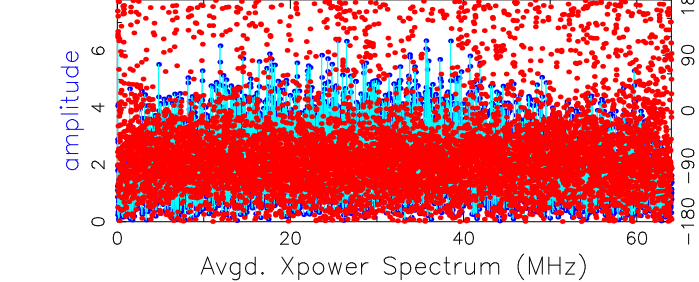
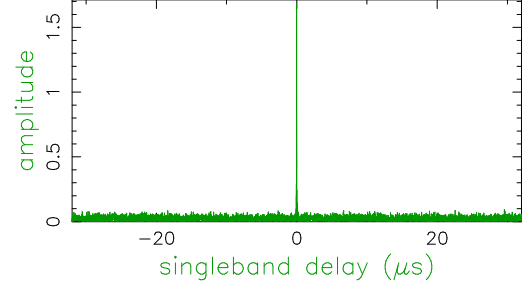
multiband delay (μ s)



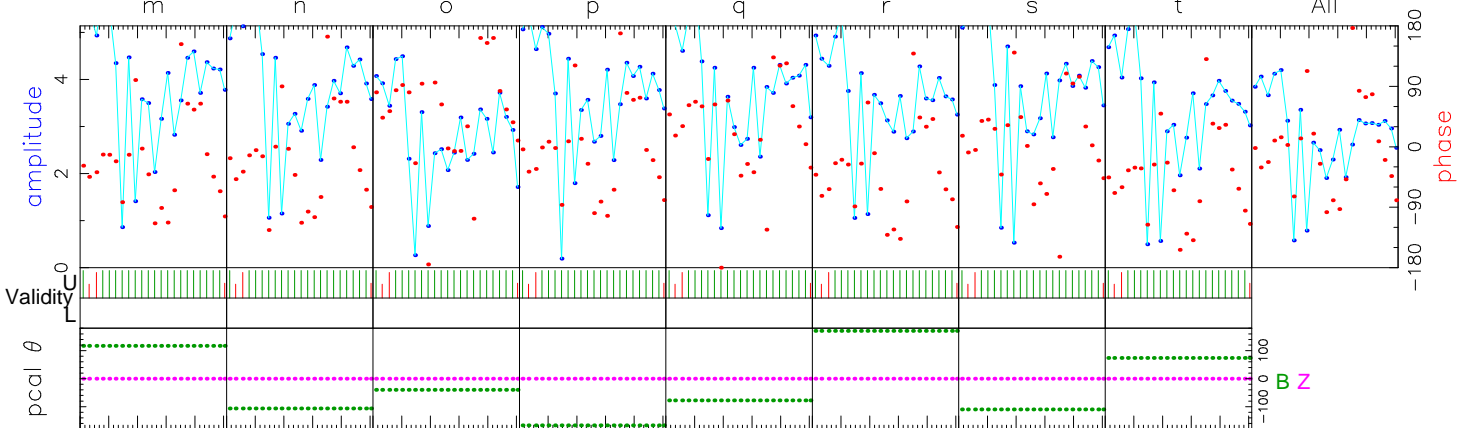
Fringe quality 2

SNR 80.1
 Int time 292.388
 Amp 1.713
 Phase -5.0
 PFD 0.0e+00
 Delays (μ s)
 SBD -0.021557
 MBD 0.002623
 Fringe rate (Hz) 0.015880
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:113226
 2023:348:201250
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 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
	-25.7	-23.2	73.5	-9.6	44.7	-43.0	16.7	-45.2	Phase	-5.0
	2.3	2.2	1.7	2.1	2.3	2.1	2.2	2.0	Ampl.	2.1
	8186.9	8187.4	8187.5	8187.0	8187.2	8187.2	8187.1	8186.2	Sbd box	8187.5
U/L	579/0	579/0	579/0	579/0	579/0	579/0	579/0	579/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD) 1.25511231698E+03 Apriori delay (usec) 1.25514094386E+03 Resid mbdelay (usec) 2.62312E-03 +/- 1.4E-05
 Sband delay (usec) 1.25511938736E+03 Apriori clock (usec) -3.5527229E+01 Resid sbdelay (usec) -2.15565E-02 +/- 1.1E-04
 Phase delay (usec) 1.25514094370E+03 Apriori clockrate (us/s) -3.3620003E-07 Resid phdelay (usec) -1.62003E-07 +/- 4.6E-08
 Delay rate (us/s) -1.61748908302E-01 Apriori rate (us/s) -1.61749092650E-01 Resid rate (us/s) 1.84348E-07 +/- 2.7E-10
 Total phase (deg) 320.4 Apriori accel (us/s/s) -1.41838672690E-05 Resid phase (deg) -5.0 +/- 1.4

RMS Theor. Amplitude 1.713 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 68.3 3.4 Search (2048X32) 1.634 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 83.8 6.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 46.5 2.0 Inc. seg. avg. 2.819 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 26.1 3.5 Inc. frq. avg. 2.120 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 295.3 el 36.1 pa 51.0 Z: az 300.9 el 31.8 pa 35.2 u,v (fr/asec) 1228.294 -1661.502 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/BZ..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/BZ.W.18.37F3IY

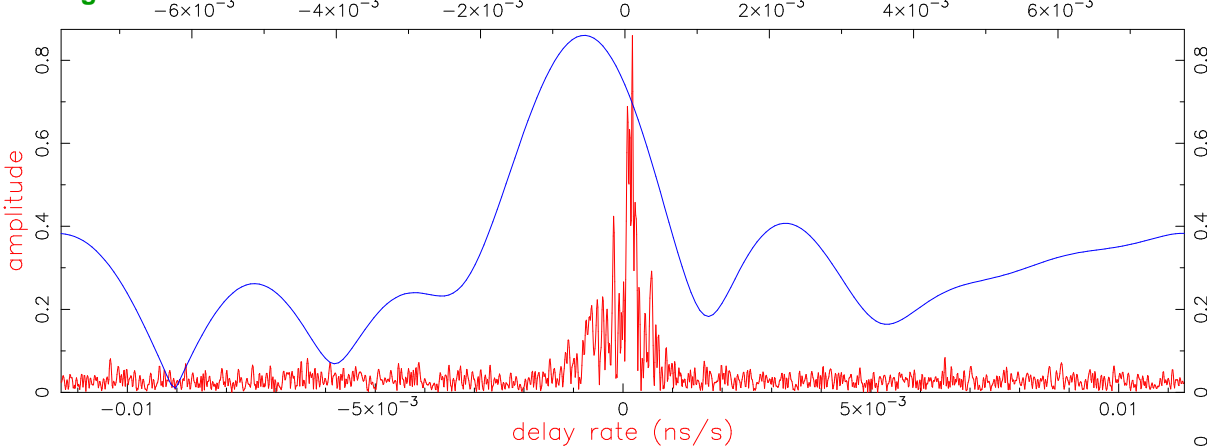
Mk4/DiFX fourfit 3.24 rev 3753

fxmanager

BLLAC.37F3IY, No0006, BZ

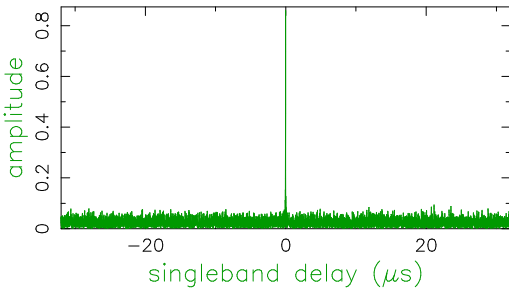
EFLSBERG - METSAHOV, fgroup W, pol LR

multiband delay (μ s)

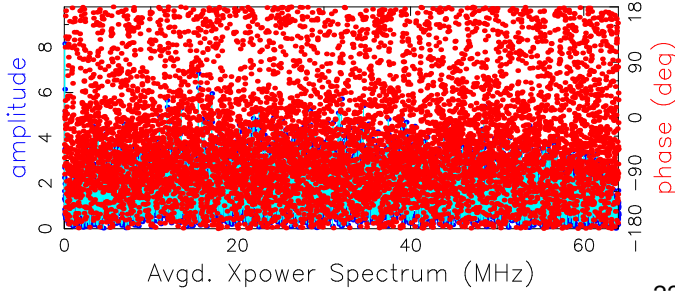


Fringe quality 4

SNR 40.9
Int time 292.388
Amp 0.874
Phase 3.5
PFD 0.0e+00
Delays (us)
SBD -0.025149
MBD -0.000595
Fringe rate (Hz)
0.015913
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

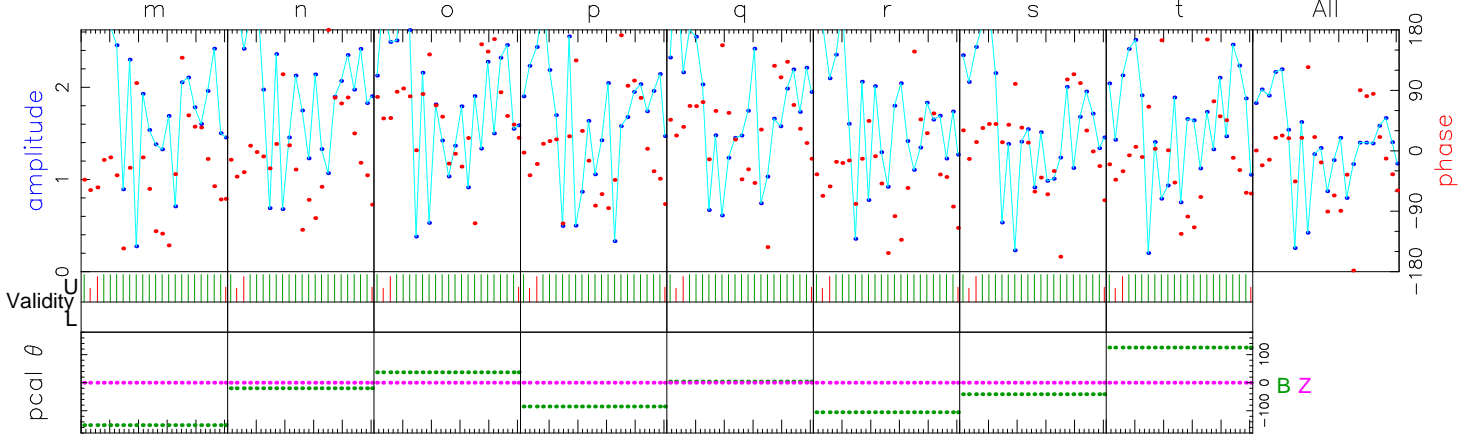


delay rate (ns/s)



Exp. f241a
Exper # 1234
Yr:day 2024:109
Start 131500.00
Stop 132000.03
FRT 131730.00
Corr/FF/build
2024:110:094732
2024:110:113346
2023:348:201250
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979897"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 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
	-34.7	-10.1	70.5	-2.9	44.2	-34.3	23.8	-21.1	Phase	3.5
	1.1	1.2	1.1	0.9	1.1	1.1	1.0	1.0	Ampl.	1.1
	8186.5	8186.0	8186.6	8186.1	8186.2	8186.4	8186.0	8185.4	Sbd box	8186.6
U/L	579/0	579/0	579/0	579/0	579/0	579/0	579/0	579/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD) 1.25510909857E+03 Apriori delay (usec) 1.25514094386E+03 Resid mbdelay (usec) -5.95285E-04 +/- 2.7E-05
 Sband delay (usec) 1.25511579486E+03 Apriori clock (usec) -3.5527229E+01 Resid sbdelay (usec) -2.51490E-02 +/- 2.1E-04
 Phase delay (usec) 1.25514094397E+03 Apriori clockrate (us/s) -3.3620003E-07 Resid phdelay (usec) 1.12880E-07 +/- 9.0E-08
 Delay rate (us/s) -1.61748907916E-01 Apriori rate (us/s) -1.61749092650E-01 Resid rate (us/s) 1.84734E-07 +/- 5.3E-10
 Total phase (deg) 328.9 Apriori accel (us/s/s) -1.41838672690E-05 Resid phase (deg) 3.5 +/- 2.8

RMS Theor. Amplitude 0.874 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 67.3 6.7 Search (2048X32) 0.840 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 79.9 11.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 41.4 4.0 Inc. seg. avg. 1.375 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 23.2 6.9 Inc. frq. avg. 1.057 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 295.3 el 36.1 pa 51.0 Z: az 300.9 el 31.8 pa 35.2 u,v (fr/asec) 1228.294 -1661.502 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/BZ..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/BZ.V.19.37F3IY

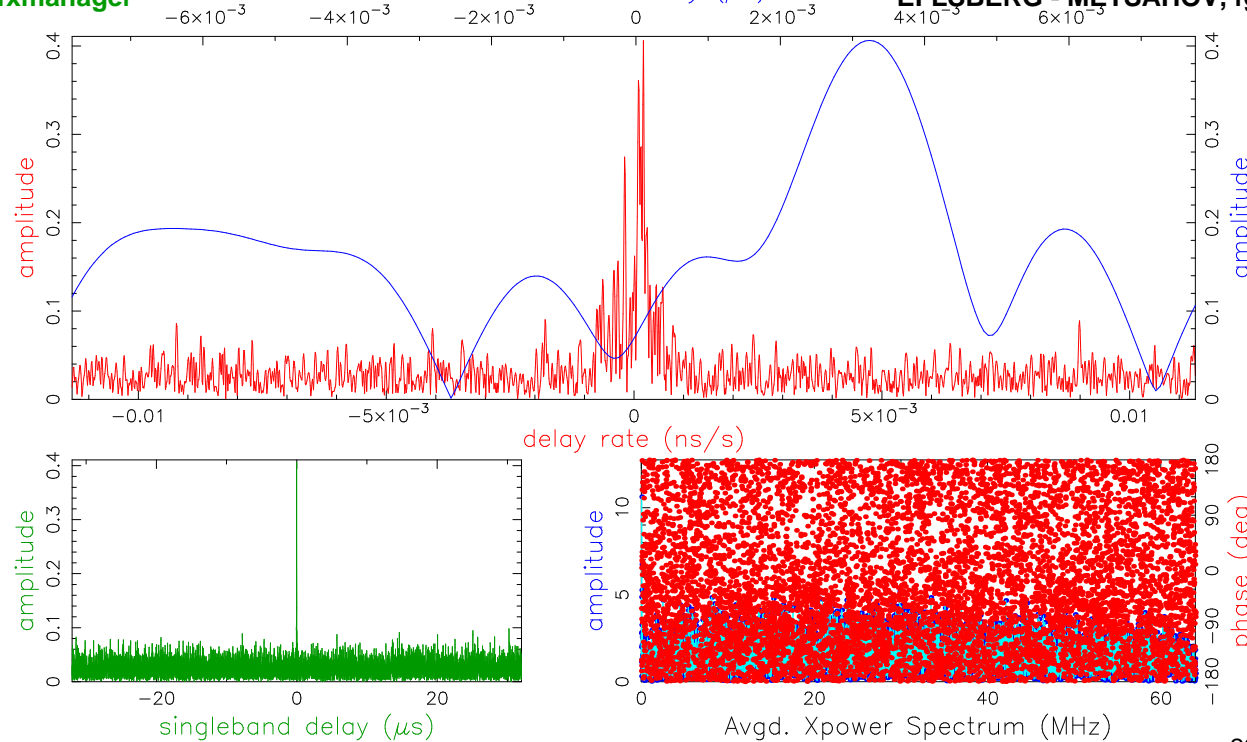
Mk4/DiFX fourfit 3.24 rev 3753

fxmanager

BLLAC.37F3IY, No0006, BZ

EFLSBERG - METSAHOV, fgroup W, pol RL

multiband delay (μ s)

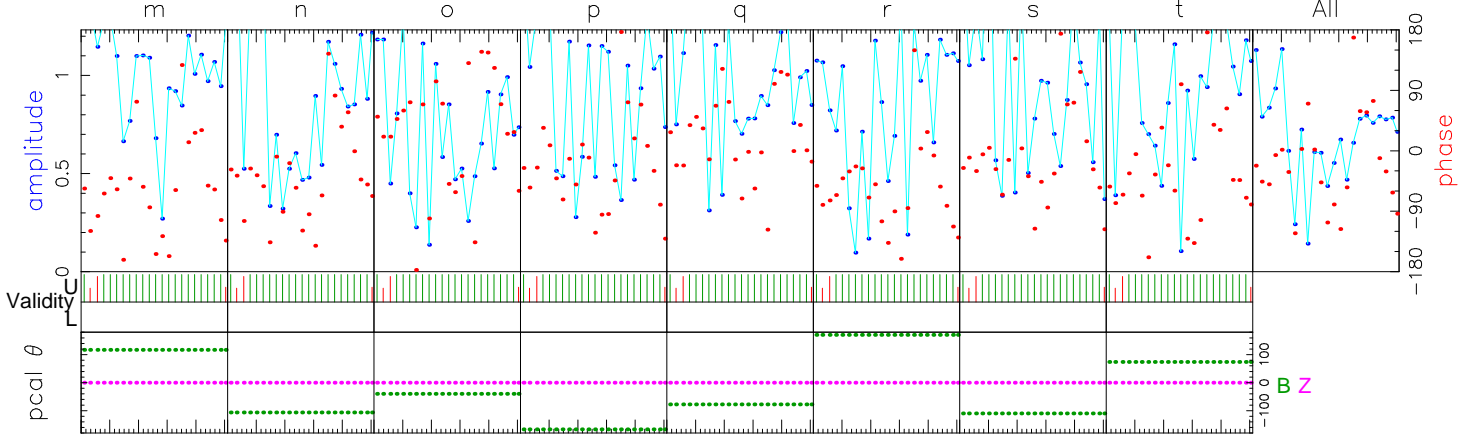


Fringe quality 8

SNR 19.2
 Int time 292.388
 Amp 0.411
 Phase -23.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.021004
 MBD 0.003201
 Fringe rate (Hz)
 0.015873
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:113507
 2023:348:201250
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 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
	-62.2	-38.1	58.5	-21.3	32.1	-70.0	-13.9	-43.7	Phase	-23.3
	0.5	0.5	0.4	0.6	0.6	0.5	0.6	0.5	Ampl.	0.5
	8187.0	8187.4	8187.6	8187.2	8187.3	8187.4	8187.6	8186.0	Sbd box	8187.6
U/L	579/0	579/0	579/0	579/0	579/0	579/0	579/0	579/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	118:0	-106:0	-40:0	-167:0	-77:0	171:0	-110:0	74:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	1.25511289482E+03	Apriori delay (usec)	1.25514094386E+03	Resid mbdelay (usec)	3.20096E-03	+/-	5.6E-05
Sband delay (usec)	1.25511993936E+03	Apriori clock (usec)	-3.5527229E+01	Resid sbdelay (usec)	-2.10045E-02	+/-	4.5E-04
Phase delay (usec)	1.25514094311E+03	Apriori clockrate (us/s)	-3.3620003E-07	Resid phdelay (usec)	-7.50466E-07	+/-	1.9E-07
Delay rate (us/s)	-1.61748908385E-01	Apriori rate (us/s)	-1.61749092650E-01	Resid rate (us/s)	1.84265E-07	+/-	1.1E-09
Total phase (deg)	302.1	Apriori accel (us/s/s)	-1.41838672690E-05	Resid phase (deg)	-23.3	+/-	6.0

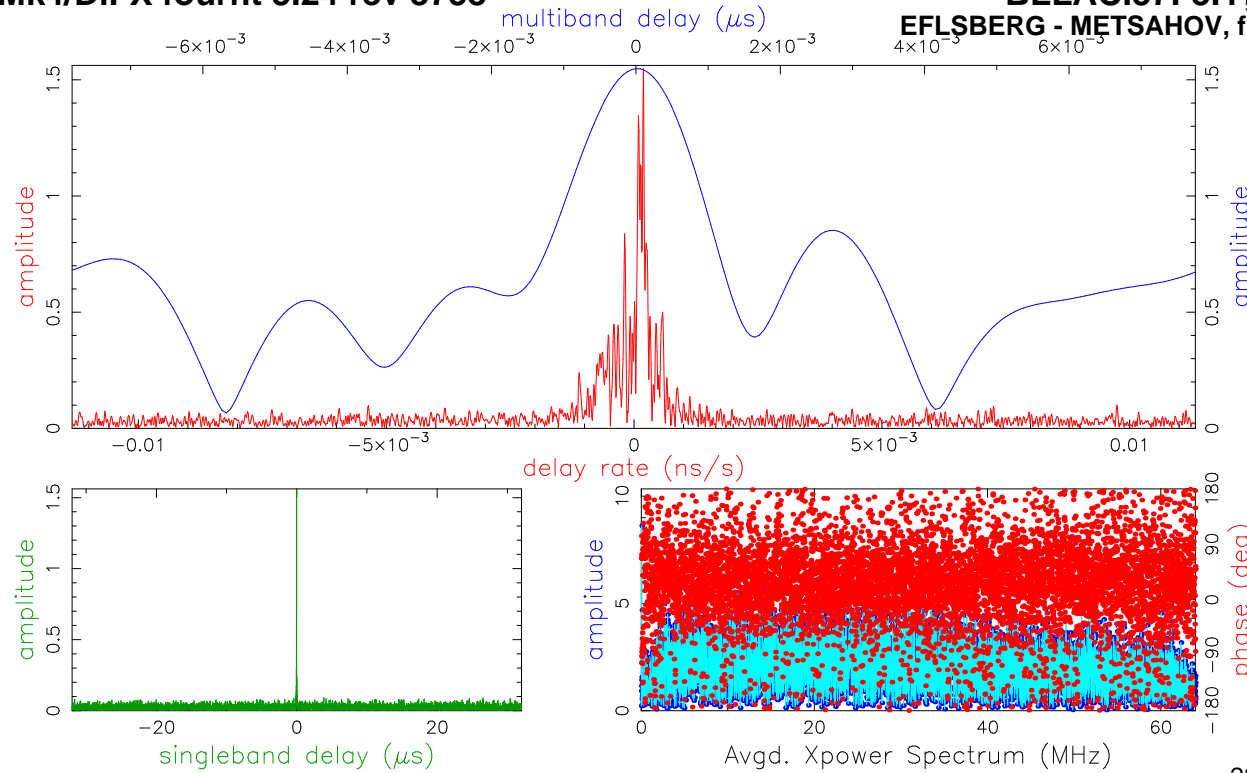
ph/seg (deg)	66.7	Theor.	14.2	Amplitude	0.411 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	88.4	Search (2048X32)	0.390	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000	32.000	
ph/frq (deg)	48.6	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	31.6	Inc. seg. avg.	0.670	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011	
		Inc. frq. avg.	0.514	Data rate(Mb/s):	2048	nlags: 8192 t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 295.3 el 36.1 pa 51.0 Z: az 300.9 el 31.8 pa 35.2 u,v (fr/asec) 1228.294 -1661.502 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/BZ..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/BZ.W.20.37F3IY

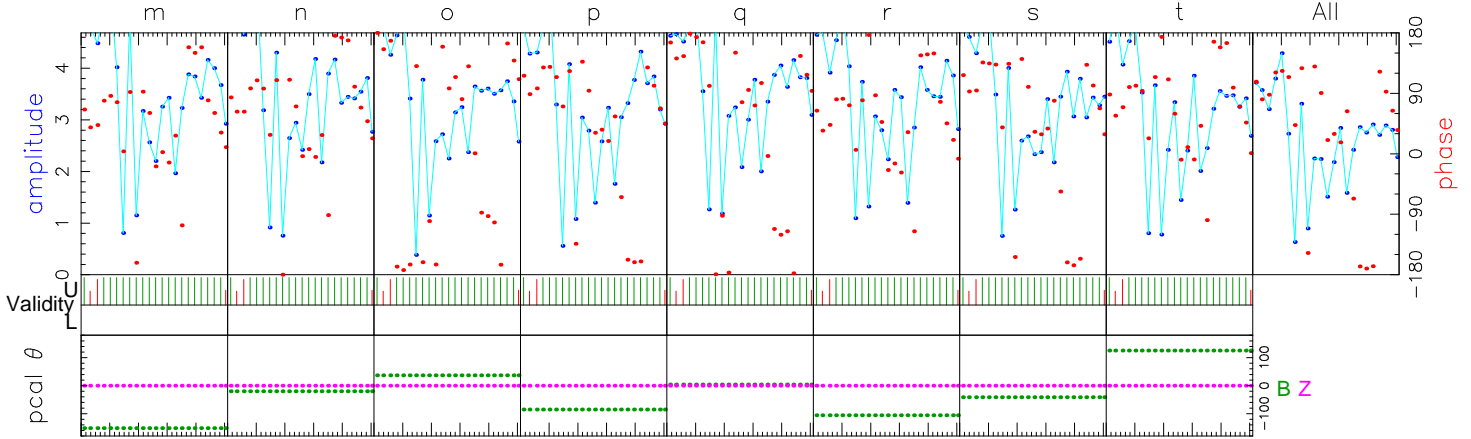
Mk4/DiFX fourfit 3.24 rev 3753

BLLAC.37F3IY, No0006, BZ
EFLSBERG - METSAHOV, fgroup W, pol LL

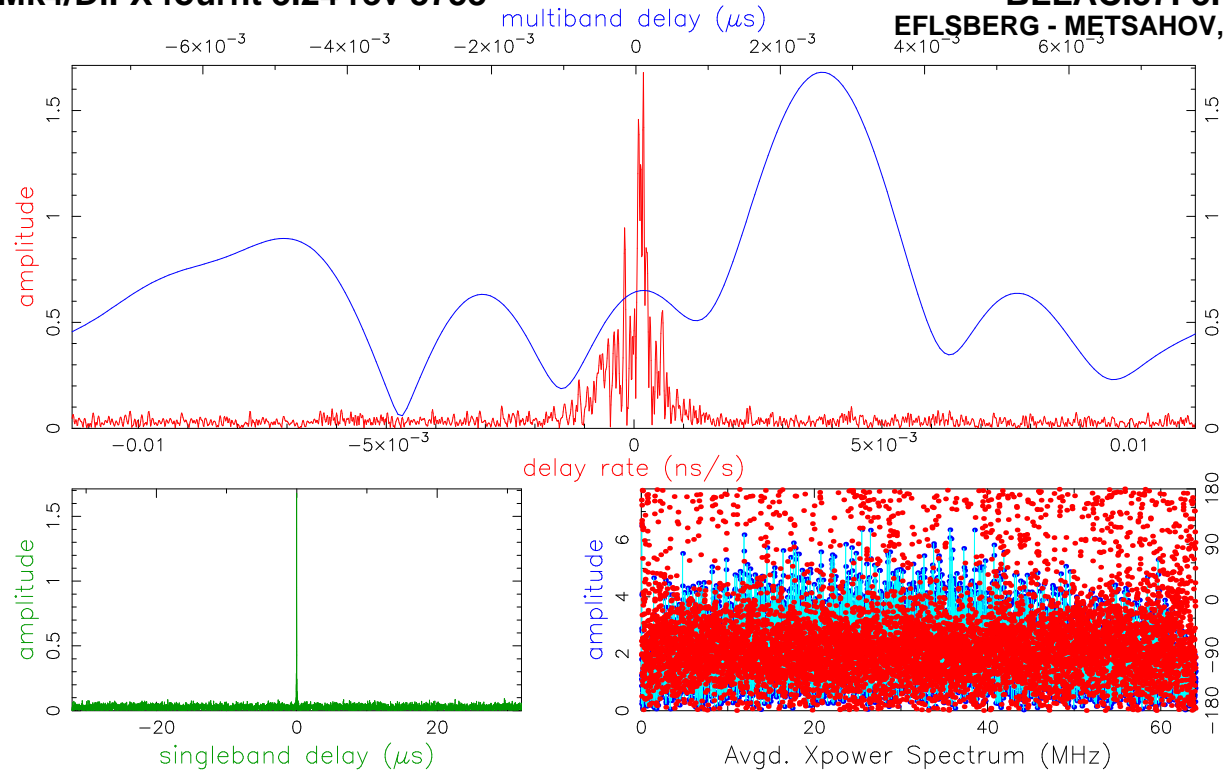


Fringe quality 2
SNR 73.0
Int time 292.388
Amp 1.562
Phase 106.9
PFD 0.0e+00
Delays (us)
SBD -0.024703
MBD -0.000011
Fringe rate (Hz) 0.015882
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. f241a
Exper # 1234
Yr:day 2024:109
Start 131500.00
Stop 132000.03
FRT 131730.00
Corr/FF/build
2024:110:094732
2024:110:095224
2023:314:152938
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979897"

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

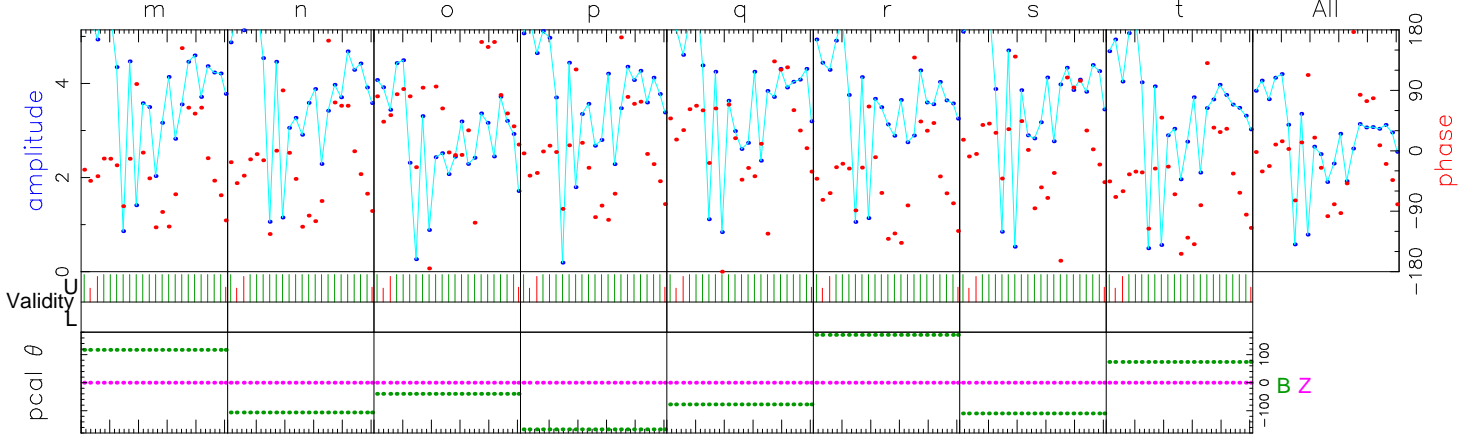


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	69.3	83.5	179.0	115.6	161.4	62.9	117.0	85.1	Phase	106.9	
	2.2	2.0	1.9	1.9	2.1	2.0	1.9	1.9	Ampl.	2.0	
	8186.6	8186.3	8186.8	8186.4	8186.3	8186.2	8186.2	8185.6	Sbd box	8186.7	
U/L	579/0	579/0	579/0	579/0	579/0	579/0	579/0	579/0	APs used		
B	0	0	0	0	0	0	0	0	PC freqs		
Z	0	0	0	0	0	0	0	0	PC freqs		
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
B:Z	-151:0	-20:0	37:0	-85:0	4:0	-106:0	-41:0	125:0	Manl PC		
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
Z	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks		
									Tracks		
Group delay (usec) (SBD)	1.25510968323E+03		Apriori delay (usec)		1.25514094386E+03		Resid mbdelay (usec)		-1.06291E-05	+/- 1.5E-05	
Sband delay (usec)	1.25511624086E+03		Apriori clock (usec)		-3.5527229E+01		Resid sbdelay (usec)		-2.47030E-02	+/- 1.2E-04	
Phase delay (usec)	1.25514094730E+03		Apriori clockrate (us/s)		-3.3620003E-07		Resid phdelay (usec)		3.44673E-06	+/- 5.1E-08	
Delay rate (us/s)	-1.61748908280E-01		Apriori rate (us/s)		-1.61749092650E-01		Resid rate (us/s)		1.84370E-07	+/- 3.0E-10	
Total phase (deg)			Apriori accel (us/s/s)		-1.41838672690E-05		Resid phase (deg)		106.9	+/- 1.6	
	RMS	Theor.	Amplitude	1.562 +/- 0.021		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	66.7	3.7	Search (2048X32)	1.514		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-32.000 32.000	
amp/seg (%)	87.4	6.5	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	46.0	2.2	Inc. seg. avg.	2.605		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011 0.011	
amp/frq (%)	28.5	3.9	Inc. frq. avg.	1.996		Data rate(Mb/s): 2048		nlags: 8192 t_cohere infinite		ion window (TEC)	0.00 0.00
B: az 295.3 el 36.1 pa 51.0	Z: az 300.9 el 31.8 pa 35.2		u, v (fr/asec) 1228.294 -1661.502						simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/f241a/FRINGE/1234/No0006/BZ..37F3IY		Output file: /Exps/f241a/FRINGE/1234/No0006/BZ.W.3.37F3IY								



Fringe quality 2
 SNR 80.1
 Int time 292.388
 Amp 1.713
 Phase -5.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.021557
 MBD 0.002623
 Fringe rate (Hz)
 0.015880
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:095357
 2023:314:152938
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 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
	-25.7	-23.2	73.5	-9.6	44.7	-43.0	16.7	-45.2	Phase	-5.0
	2.3	2.2	1.7	2.1	2.3	2.1	2.2	2.0	Ampl.	2.1
	8186.9	8187.4	8187.5	8187.0	8187.2	8187.2	8187.1	8186.2	Sbd box	8187.5
U/L	579/0	579/0	579/0	579/0	579/0	579/0	579/0	579/0	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	
									Chan ids	
									Tracks	
Group delay (usec) (SBD)	1.25511231698E+03		Apriori delay (usec)		1.25514094386E+03		Resid mbdelay (usec)		2.62312E-03	+/- 1.4E-05
Sband delay (usec)	1.25511938736E+03		Apriori clock (usec)		-3.5527229E+01		Resid sbdelay (usec)		-2.15565E-02	+/- 1.1E-04
Phase delay (usec)	1.25514094370E+03		Apriori clockrate (us/s)		-3.3620003E-07		Resid phdelay (usec)		-1.62003E-07	+/- 4.6E-08
Delay rate (us/s)	-1.61748908302E-01		Apriori rate (us/s)		-1.61749092650E-01		Resid rate (us/s)		1.84348E-07	+/- 2.7E-10
Total phase (deg)	320.4		Apriori accel (us/s/s)		-1.41838672690E-05		Resid phase (deg)		-5.0	+/- 1.4
RMS	68.3	3.4	Search (2048X32)	1.634	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-32.000 32.000
ph/seg (deg)	68.3	3.4	Search (2048X32)	1.634	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.008 0.008
amp/seg (%)	83.8	6.0	Interp.	0.000	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		nlags: 8192 t_cohere infinite		dr window (ns/s)	-0.011 0.011
ph/frq (deg)	46.5	2.0	Inc. seg. avg.	2.819	Data rate(Mb/s): 2048		ion window (TEC)		0.00 0.00	
amp/frq (%)	26.1	3.5	Inc. frq. avg.	2.120	u,v (fr/asec) 1228.294 -1661.502		simultaneous interpolator			
B: az 295.3 el 36.1 pa 51.0	Z: az 300.9 el 31.8 pa 35.2		u,v (fr/asec) 1228.294 -1661.502							
Control file: cf_1234_gmva	Input file: /Exps/f241a/FRINGE/1234/No0006/BZ..37F3IY		Output file: /Exps/f241a/FRINGE/1234/No0006/BZ.W.6.37F3IY							

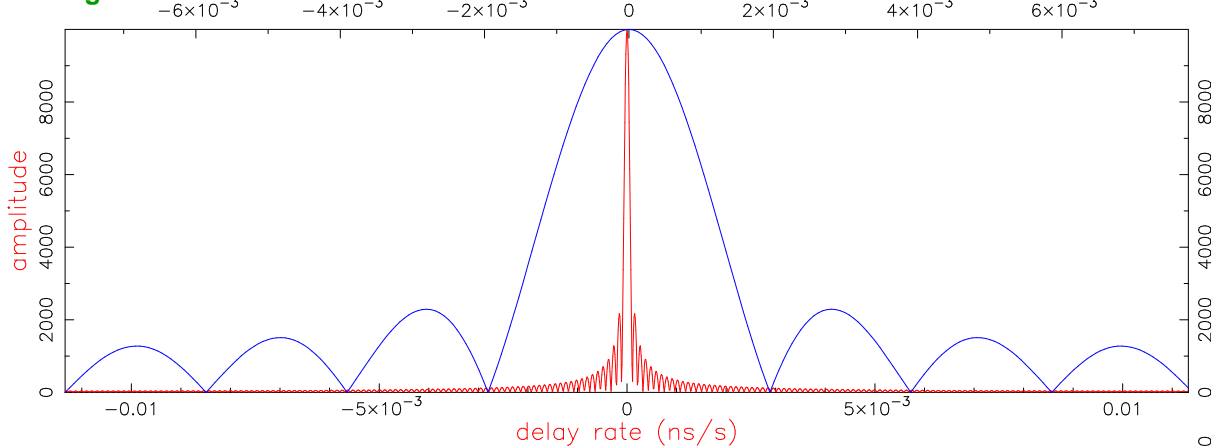
Mk4/DiFX fourfit 3.24 rev 3753

fxmanager

BLLAC.37F3IY, No0006, PP

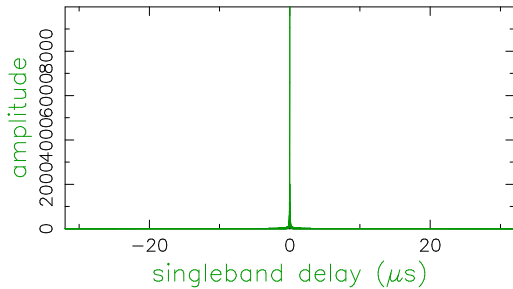
PICOVEL - PICOVEL, fgroup W, pol LL

multiband delay (μ s)

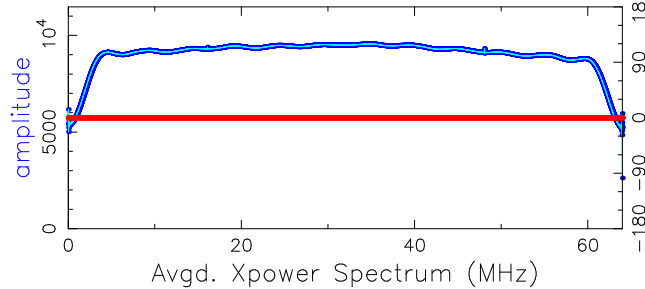


Fringe quality 9

SNR 284372.5
 Int time 108.138
 Amp 9999.999
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

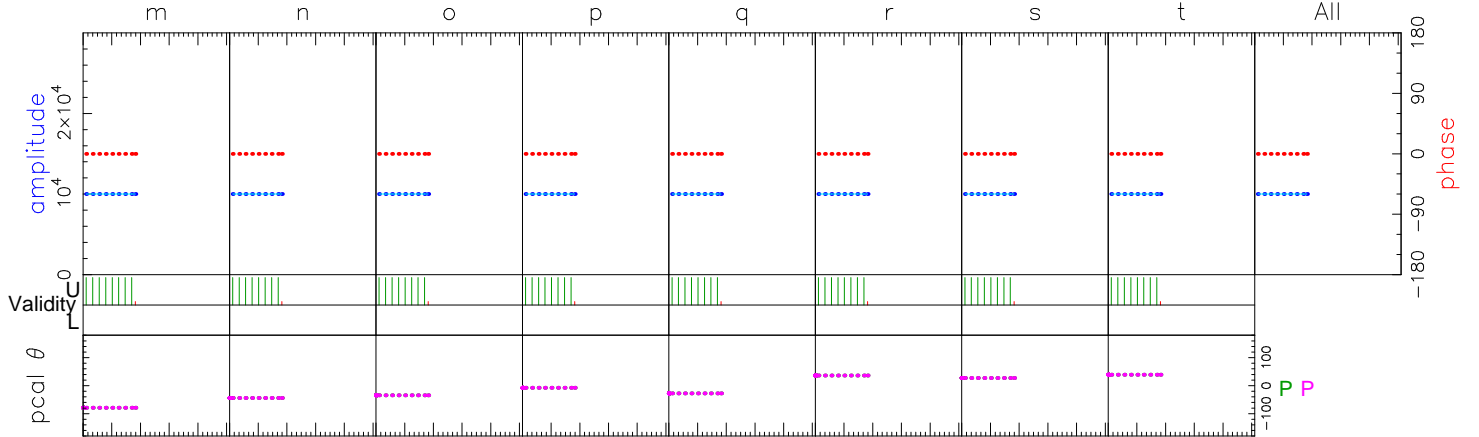


delay rate (ns/s)



Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:115213
 2023:348:201250
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 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	212/0	212/0	212/0	212/0	212/0	212/0	212/0	212/0	10000.0	10000.0
P	0	0	0	0	0	0	0	0	8193.0	8193.0
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	PC freqs
P:P	-79:-79	-44:-44	-34:-34	-8:-8	-28:-28	36:36	27:27	39:39	PC phase	Mani PC
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/- 3.8E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 3.0E-08
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/- 1.3E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 2.1E-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 0.0 RMS Theor. Amplitude 9999.999 +/- 0.035 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 P: az 299.5 el 36.5 pa 70.0 P: az 299.5 el 36.5 pa 70.0 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/PP..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/PP.W.33.37F3IY simultaneous interpolator

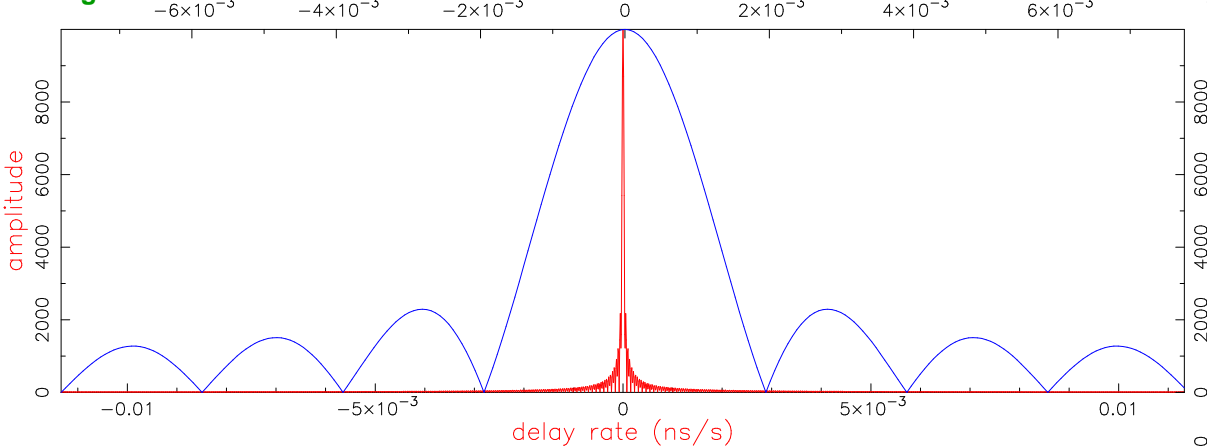
Mk4/DiFX fourfit 3.24 rev 3753

fxmanager

BLLAC.37F3IY, No0006, PP

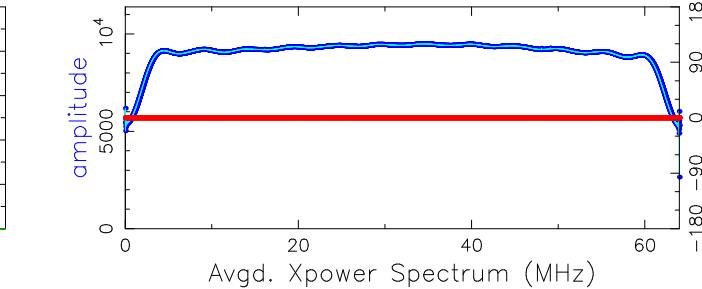
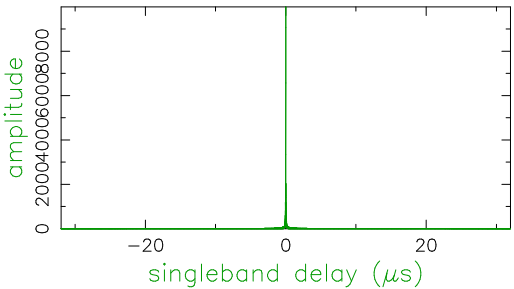
PICOVEL - PICOVEL, fgroup W, pol RR

multiband delay (μ s)



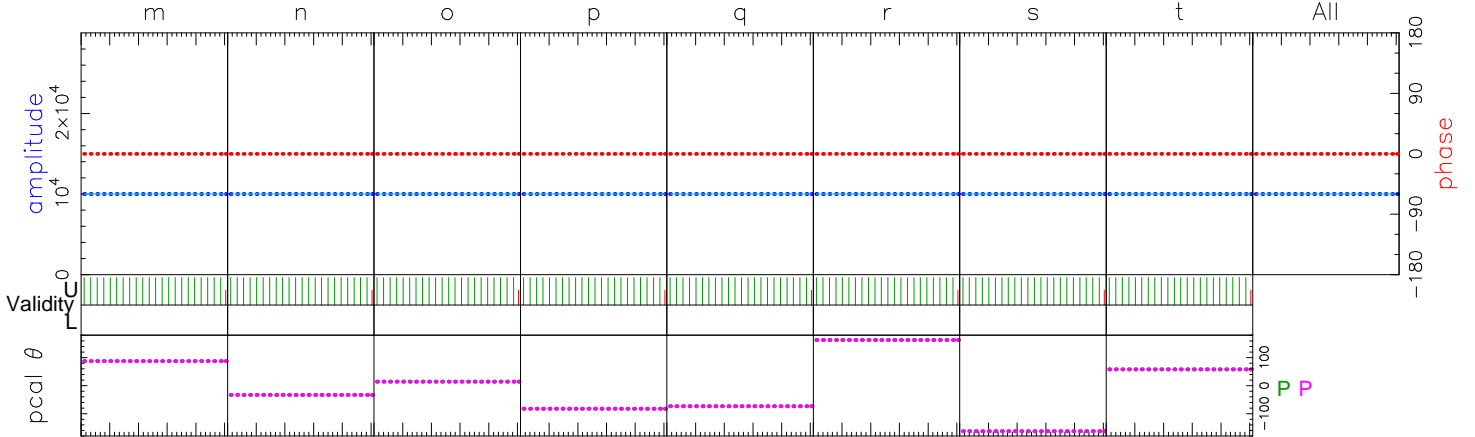
Fringe quality 9

SNR 473639.8
 Int time 299.986
 Amp 9999.999
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f241a
 Yr:day 1234
 Start 2024:109
 Stop 2024:110:094732
 FRT 131730.00
 Corr/FF/build
 2024:110:115331
 2023:348:201250
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 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	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0		
P	0	0	0	0	0	0	0	0		
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
P:P	88:88	-33:-33	15:15	-82:-82	-74:-74	163:163	-163:-163	58:58		
P	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.3E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.8E-08
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	7.8E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	4.5E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 9999.999 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 P: az 299.5 el 36.5 pa 70.0 P: az 299.5 el 36.5 pa 70.0 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/PP..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/PP.W.34.37F3IY simultaneous interpolator

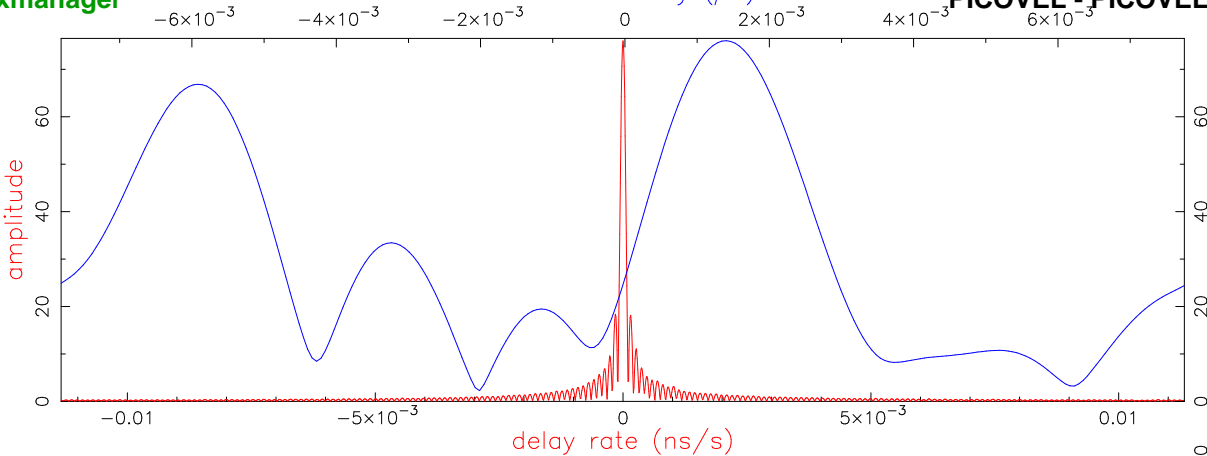
Mk4/DiFX fourfit 3.24 rev 3753

fxmanager

BLLAC.37F3IY, No0006, PP

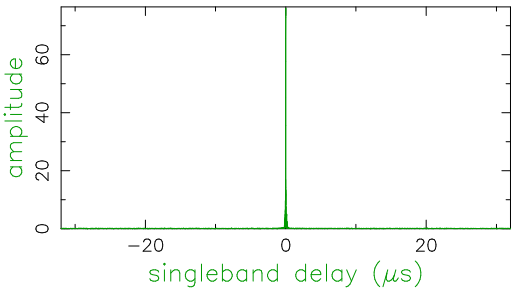
PICOVEL - PICOVEL, fgroup W, pol LR

multiband delay (μ s)

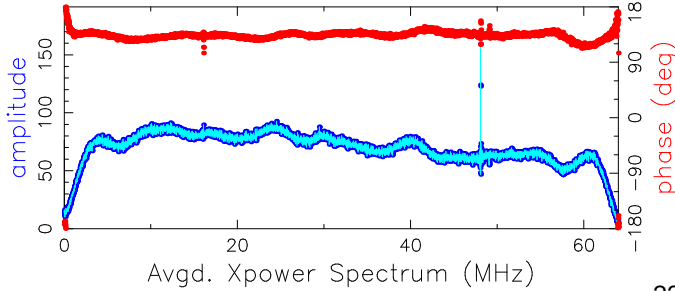


Fringe quality 5

SNR 2175.9
 Int time 108.138
 Amp 76.516
 Phase 38.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.006750
 MBD 0.001424
 Fringe rate (Hz)
 -0.000119
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

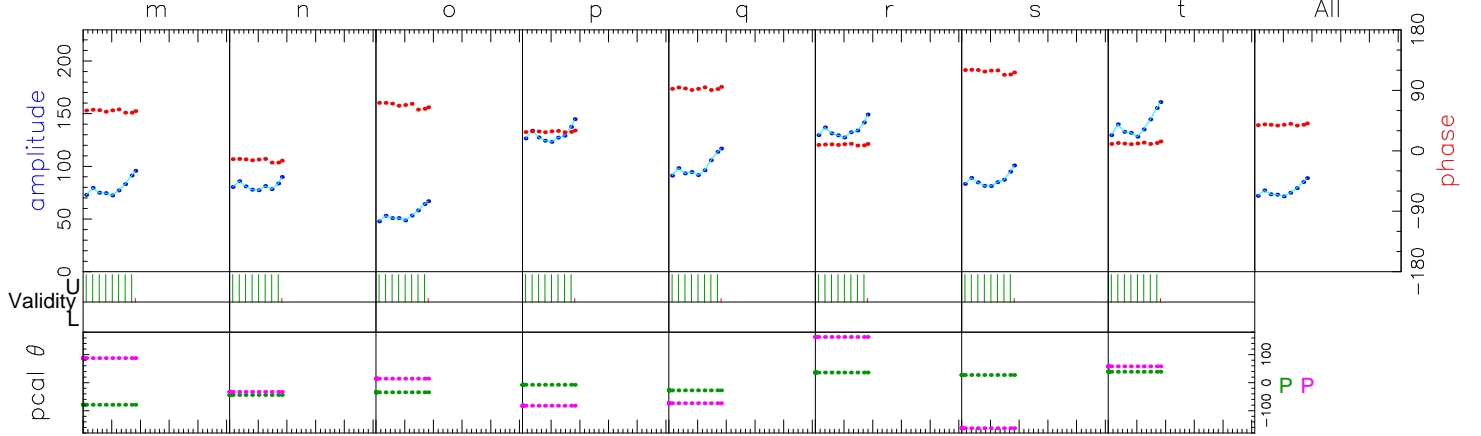


delay rate (ns/s)



Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:115449
 2023:348:201250
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 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	-14.0	67.4	28.5	92.4	9.1	117.9	10.9	Phase	38.7
	78.5	80.8	53.5	128.9	98.4	133.1	86.0	137.5	Ampl.	99.6
	8190.9	8191.3	8190.8	8190.9	8190.1	8190.0	8190.5	8191.3	Sbd box	8191.3
U/L	212/0	212/0	212/0	212/0	212/0	212/0	212/0	212/0	APs used	
P	0	0	0	0	0	0	0	0	PC freqs	
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:P	-79:88	-44:-33	-34:15	-8:-82	-28:-74	36:163	27:-163	39:58	Manl PC	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD) -1.42009375000E-02 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) 1.42406E-03 +/- 5.0E-07
 Sband delay (usec) -6.74950000000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) -6.74950E-03 +/- 4.0E-06
 Phase delay (usec) 1.24765326041E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 1.24765E-06 +/- 1.7E-09
 Delay rate (us/s) -1.37601889723E-09 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -1.37602E-09 +/- 2.7E-11
 Total phase (deg) 38.7 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 38.7 +/- 0.1

RMS Theor. Amplitude 76.516 +/- 0.035 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.9 0.1 Search (2048X32) 75.860 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 6.0 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 49.9 0.1 Inc. seg. avg. 76.012 Data rate (MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 48.0 0.1 Inc. frq. avg. 99.582 Data rate (Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00
 P: az 299.5 el 36.5 pa 70.0 P: az 299.5 el 36.5 pa 70.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/PP..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/PP.W.35.37F3IY

Mk4/DiFX fourfit 3.24 rev 3753

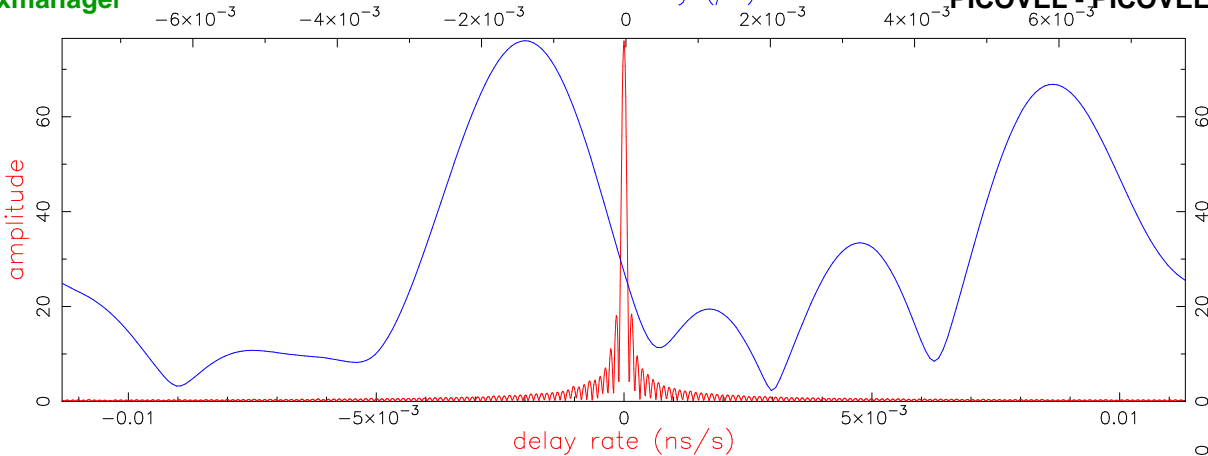
fxmanager

BLLAC.37F3IY, No0006, PP

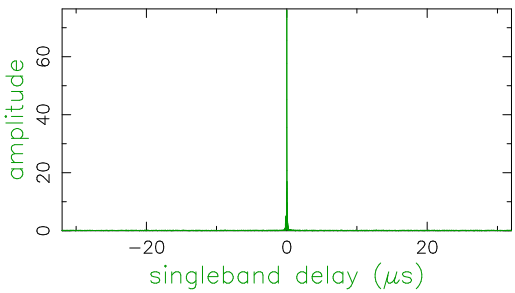
PICOVEL - PICOVEL, fgroup W, pol RL

multiband delay (μ s)

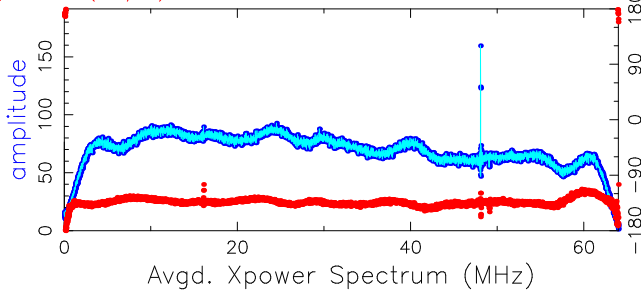
Fringe quality 5



SNR 2175.9
 Int time 108.138
 Amp 76.516
 Phase -38.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.006750
 MBD -0.001424
 Fringe rate (Hz)
 0.000119
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

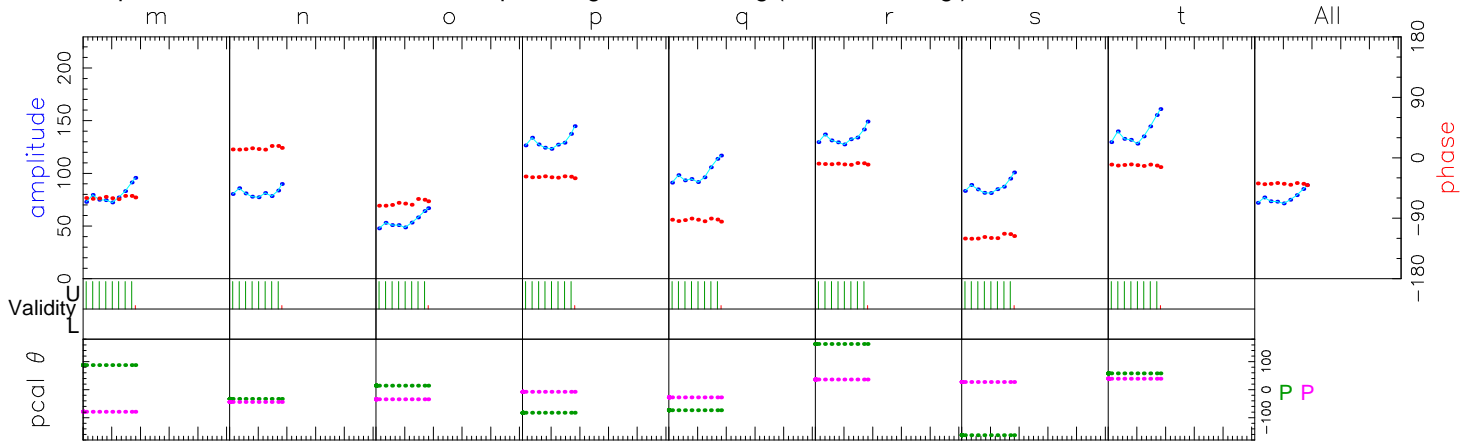


delay rate (ns/s)



Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:115607
 2023:348:201250
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"

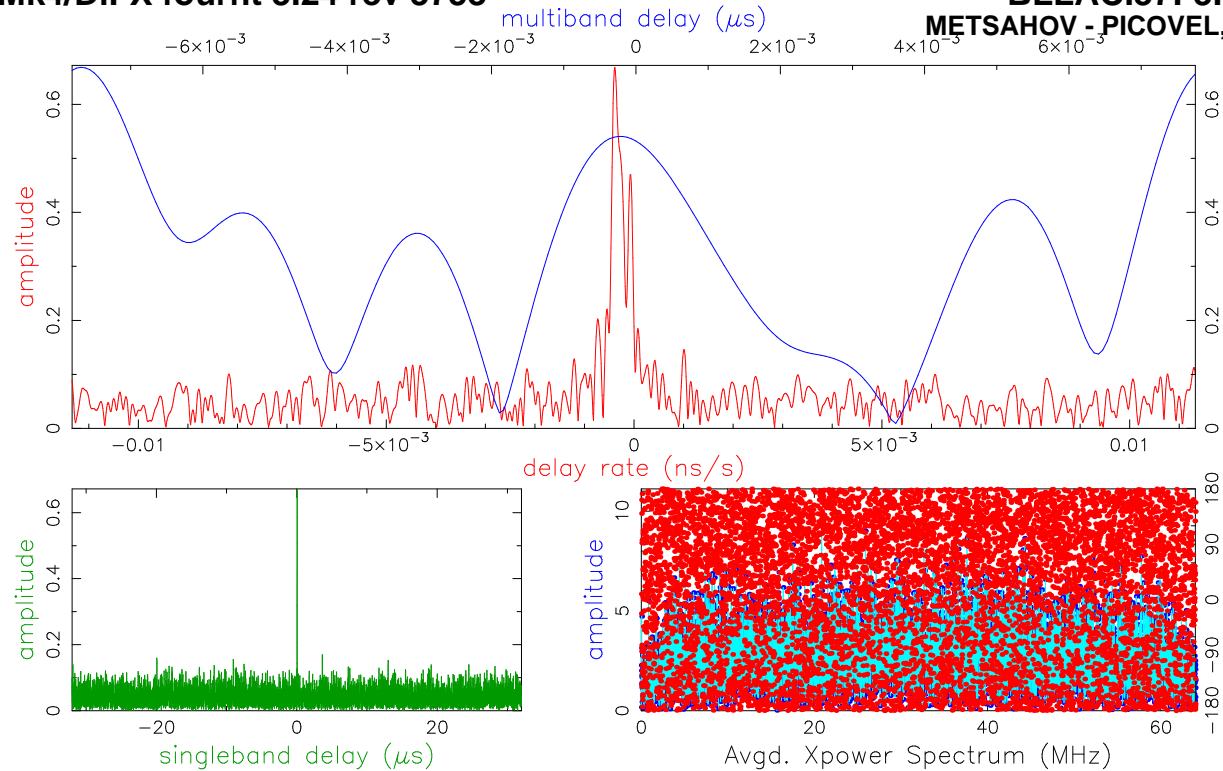
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	m	n	o	p	q	r	s	t	All
86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	86524.00	86588.00
-59.2	14.0	-67.4	-28.5	-92.4	-9.1	-117.9	-10.9	-137.5	-38.7
78.5	80.8	53.5	128.9	98.4	133.1	86.0	137.5	99.6	99.6
8195.1	8194.7	8195.2	8195.1	8195.9	8196.0	8195.5	8194.7	8194.7	8194.7
U/L 212/0	212/0	212/0	212/0	212/0	212/0	212/0	212/0	212/0	212/0
P 0	0	0	0	0	0	0	0	0	0
P:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
P:P 88:-79	-33:-44	15:-34	-82:-8	-74:-28	163:36	-163:27	58:39	58:39	58:39
P 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
P 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
P W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR
P W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL

Group delay (usec) (SBD)	1.42009375000E-02	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-1.42406E-03	+/-	5.0E-07
Sband delay (usec)	6.74950000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	6.74950E-03	+/-	4.0E-06
Phase delay (usec)	-1.24765326069E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.24765E-06	+/-	1.7E-09
Delay rate (us/s)	1.37601889723E-09	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	1.37602E-09	+/-	2.7E-11
Total phase (deg)		Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-38.7	+/-	0.1

ph/seg (deg) 0.9 0.1 Search (2048X32) 75.860 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 6.0 0.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 49.9 0.1 Inc. seg. avg. 76.012 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 48.0 0.1 Inc. frq. avg. 99.582 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 P: az 299.5 el 36.5 pa 70.0 P: az 299.5 el 36.5 pa 70.0 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/PP..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/PP.W.36.37F3IY simultaneous interpolator

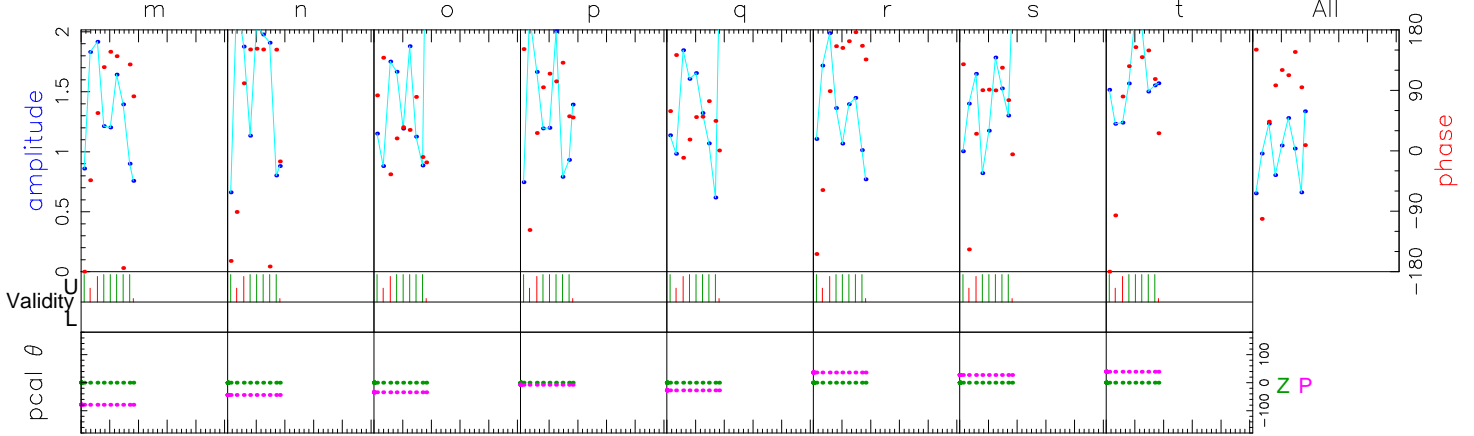


Fringe quality 5

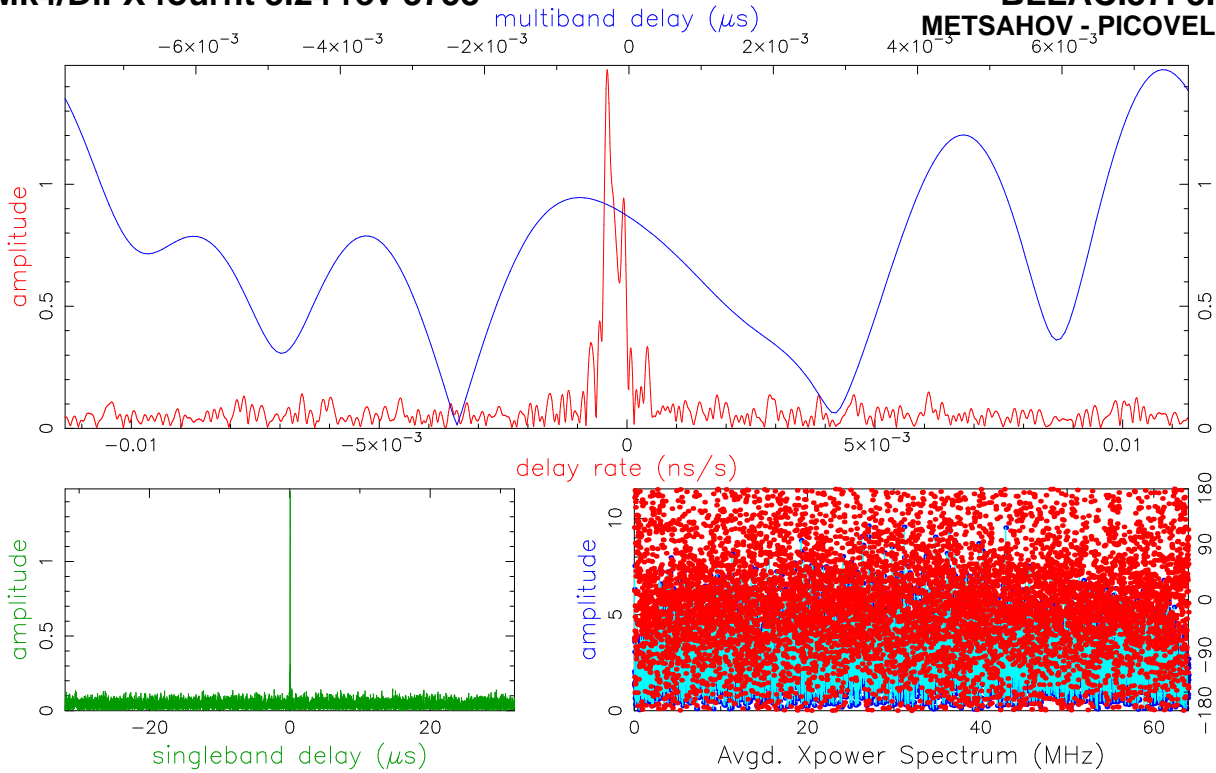
SNR 18.4
 Int time 100.541
 Amp 0.672
 Phase 109.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.053757
 MBD -0.007703
 Fringe rate (Hz)
 -0.033826
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:095626
 2023:314:152938
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"

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

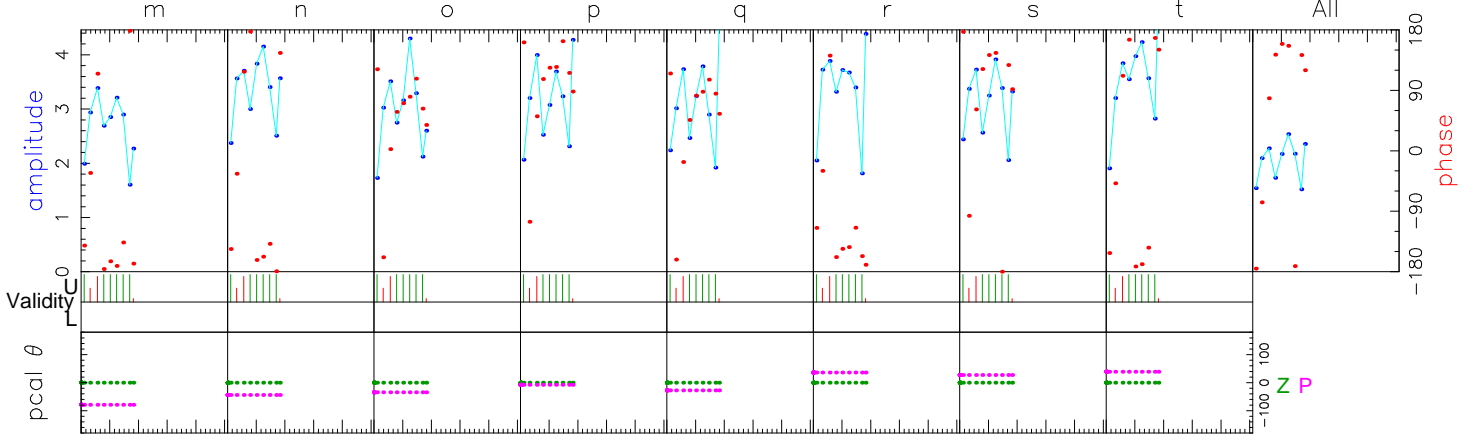


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	134.3	159.6	27.3	96.5	39.3	157.7	90.7	139.0	Phase	109.6	
	0.8	1.1	1.0	0.8	1.1	0.9	1.0	1.3	Ampl.	1.0	
	8205.9	8206.6	8206.9	8207.9	8208.2	8207.8	8208.1	8207.2	Sbd box	8206.8	
U/L	205/0	205/0	205/0	205/0	205/0	205/0	205/0	205/0	APs used		
Z	0	0	0	0	0	0	0	0	PC freqs		
P	0	0	0	0	0	0	0	0	PC freqs		
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
Z:P	0:-79	0:-44	0:-34	0:-8	0:-28	0:36	0:27	0:39	Manl PC		
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
P	1000	1000	1000	1000	1000	1000	1000	1000			
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks		
									Tracks		
Group delay (usec) (SBD)	-1.39965229337E+03		Apriori delay (usec)		-1.39970709062E+03		Resid mbdelay (usec)		-7.70275E-03	+/- 5.9E-05	
Sband delay (usec)	-1.39965333412E+03		Apriori clock (usec)		1.0354099E+00		Resid sbdelay (usec)		5.37565E-02	+/- 4.7E-04	
Phase delay (usec)	-1.39970708709E+03		Apriori clockrate (us/s)		4.3535206E-07		Resid phdelay (usec)		3.53404E-06	+/- 2.0E-07	
Delay rate (us/s)	3.10084616867E-01		Apriori rate (us/s)		3.10085009557E-01		Resid rate (us/s)		-3.92690E-07	+/- 3.3E-09	
Total phase (deg)			Apriori accel (us/s/s)		2.76289254574E-05		Resid phase (deg)		109.6	+/- 6.2	
	RMS	Theor.	Amplitude	0.672 +/- 0.036		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	51.6	8.8	Search (2048X32)	0.655		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-32.000 32.000	
amp/seg (%)	55.8	15.4	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	55.6	8.8	Inc. seg. avg.	0.934		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011 0.011	
amp/frq (%)	54.1	15.4	Inc. frq. avg.	0.985		Data rate(Mb/s): 2048		nlags: 8192 t_cohere infinite		ion window (TEC)	0.00 0.00
Z: az 300.9 el 31.8 pa 35.2	P: az 299.5 el 36.5 pa 70.0		u, v (fr/asec)		-2353.102 3745.342		simultaneous interpolator				
Control file: cf_1234_gmva	Input file: /Exps/f241a/FRINGE/1234/No0006/ZP..37F3IY		Output file: /Exps/f241a/FRINGE/1234/No0006/ZP.W.11.37F3IY								



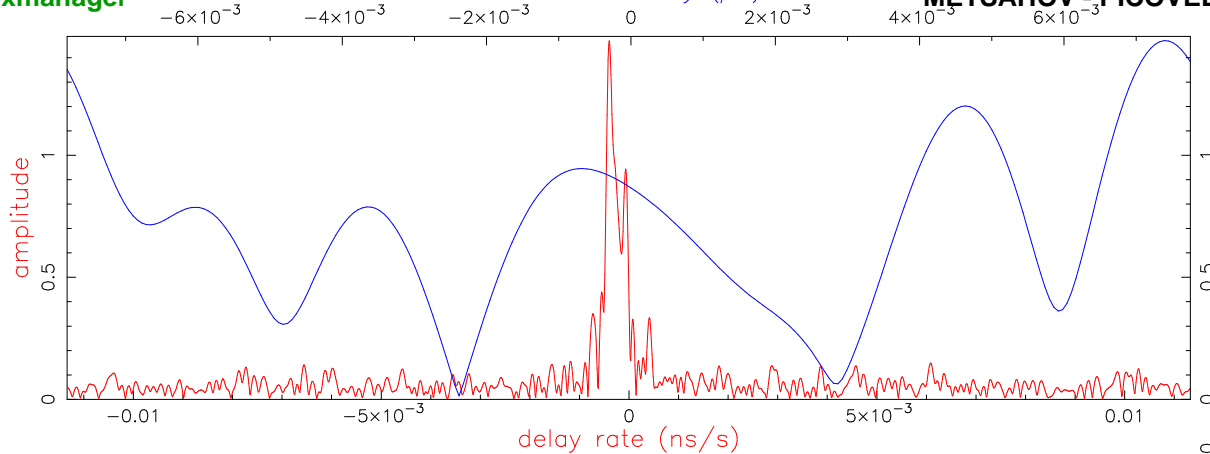
Fringe quality 1
 SNR 40.8
 Int time 100.541
 Amp 1.487
 Phase 155.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.053288
 MBD 0.007367
 Fringe rate (Hz)
 -0.034699
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:095221
 2023:314:152938
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"

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



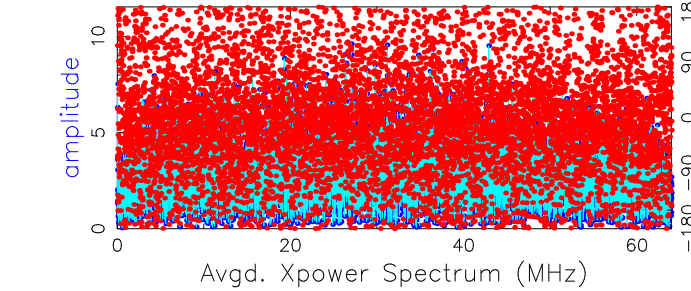
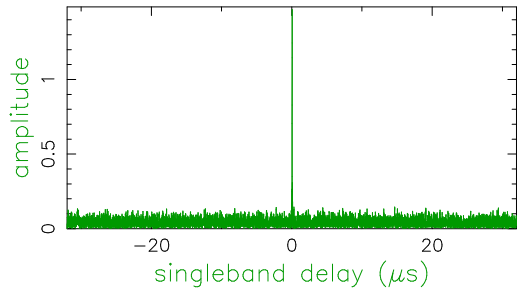
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-169.4	-167.7	74.4	122.5	78.6	-146.0	142.3	-178.8	Phase	155.5
	1.9	2.4	2.2	2.1	2.0	2.4	2.1	2.6	Ampl.	2.2
	8205.0	8206.8	8206.8	8207.5	8208.1	8207.7	8207.9	8207.1	Sbd box	8206.6
U/L	205/0	205/0	205/0	205/0	205/0	205/0	205/0	205/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:P	0:-79	0:-44	0:-34	0:-8	0:-28	0:36	0:27	0:39	ManI PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	-1.39965284840E+03		Apriori delay (usec)		-1.39970709062E+03		Resid mbdelay (usec)		7.36722E-03	+/- 2.7E-05
Sband delay (usec)	-1.39965380287E+03		Apriori clock (usec)		1.0354099E+00		Resid sbdelay (usec)		5.32877E-02	+/- 2.1E-04
Phase delay (usec)	-1.39970708561E+03		Apriori clockrate (us/s)		4.3535206E-07		Resid phdelay (usec)		5.01352E-06	+/- 9.1E-08
Delay rate (us/s)	3.10084606741E-01		Apriori rate (us/s)		3.10085009557E-01		Resid rate (us/s)		-4.02816E-07	+/- 1.5E-09
Total phase (deg)			Apriori accel (us/s/s)		2.76289254574E-05		Resid phase (deg)		155.5	+/- 2.8
	RMS	Theor.	Amplitude	1.487 +/- 0.036	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	46.4	4.0	Search (2048X32)	1.451	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-32.000	32.000
amp/seg (%)	42.2	7.0	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	58.3	4.0	Inc. seg. avg.	1.991	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011	0.011
amp/frq (%)	51.2	6.9	Inc. frq. avg.	2.210	Data rate(Mb/s): 2048		nlags: 8192 t_cohere infinite		ion window (TEC)	0.00 0.00
Z: az 300.9 el 31.8 pa 35.2	P: az 299.5 el 36.5 pa 70.0		u,v (fr/asec) -2353.102 3745.342						simultaneous interpolator	
Control file: cf_1234_gmva	Input file: /Exps/f241a/FRINGE/1234/No0006/ZP..37F3IY		Output file: /Exps/f241a/FRINGE/1234/No0006/ZP.W.2.37F3IY							

multiband delay (μ s)



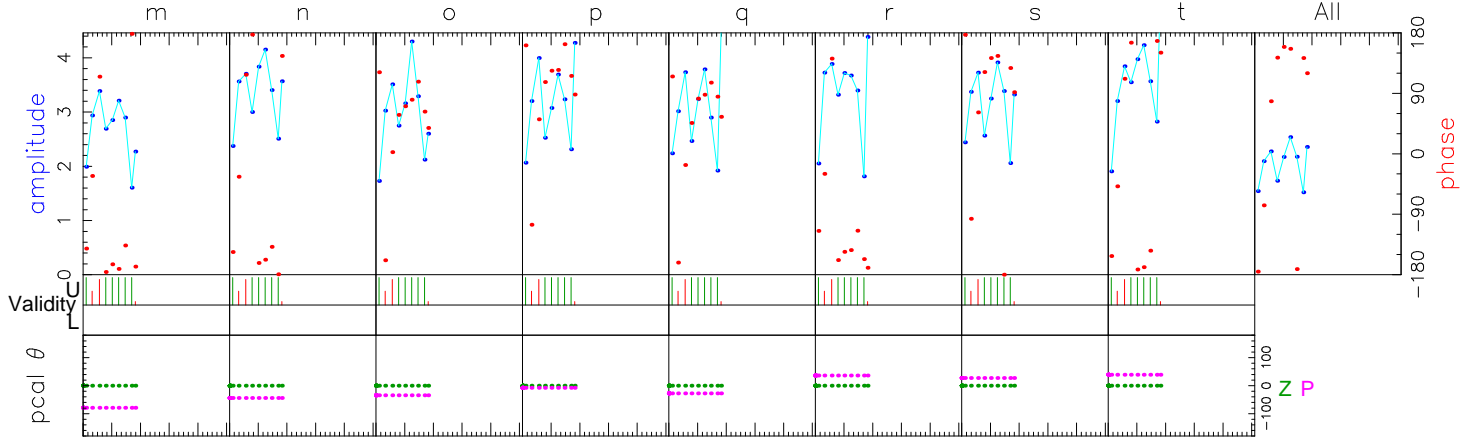
Fringe quality 1

SNR 40.8
 Int time 100.541
 Amp 1.487
 Phase 155.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.053288
 MBD 0.007367
 Fringe rate (Hz)
 -0.034699
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:114655
 2023:348:201250
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-169.4	-167.7	74.4	122.5	78.6	-146.0	142.3	-178.8	Phase	155.5
	1.9	2.4	2.2	2.1	2.0	2.4	2.1	2.6	Ampl.	2.2
	8205.0	8206.8	8206.8	8207.5	8208.1	8207.7	8207.9	8207.1	Sbd box	8206.6
U/L	205/0	205/0	205/0	205/0	205/0	205/0	205/0	205/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:P	0:-79	0:-44	0:-34	0:-8	0:-28	0:36	0:27	0:39	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-1.39965284840E+03	Apriori delay (usec)	-1.39970709062E+03	Resid mbdelay (usec)	7.36722E-03	+/-	2.7E-05
Sband delay (usec)	-1.39965380287E+03	Apriori clock (usec)	1.0354099E+00	Resid sbdelay (usec)	5.32877E-02	+/-	2.1E-04
Phase delay (usec)	-1.39970708561E+03	Apriori clockrate (us/s)	4.3535206E-07	Resid phdelay (usec)	5.01352E-06	+/-	9.1E-08
Delay rate (us/s)	3.10084606741E-01	Apriori rate (us/s)	3.10085009557E-01	Resid rate (us/s)	-4.02816E-07	+/-	1.5E-09
Total phase (deg)	-127.6	Apriori accel (us/s/s)	2.76289254574E-05	Resid phase (deg)	155.5	+/-	2.8

ph/seg (deg)	46.4	Theor.	4.0	Amplitude	1.487 +/- 0.036	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	42.2		7.0	Search (2048X32)	1.451	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000	
ph/frq (deg)	58.3		4.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	51.2		6.9	Inc. seg. avg.	1.991	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	2.210	Data rate(Mb/s):	2048	nlags: 8192 t_cohere infinite	ion window (TEC)	0.00 0.00

Z: az 300.9 el 31.8 pa 35.2 P: az 299.5 el 36.5 pa 70.0 u,v (fr/asec) -2353.102 3745.342 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/ZP..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/ZP.W.29.37F3IY

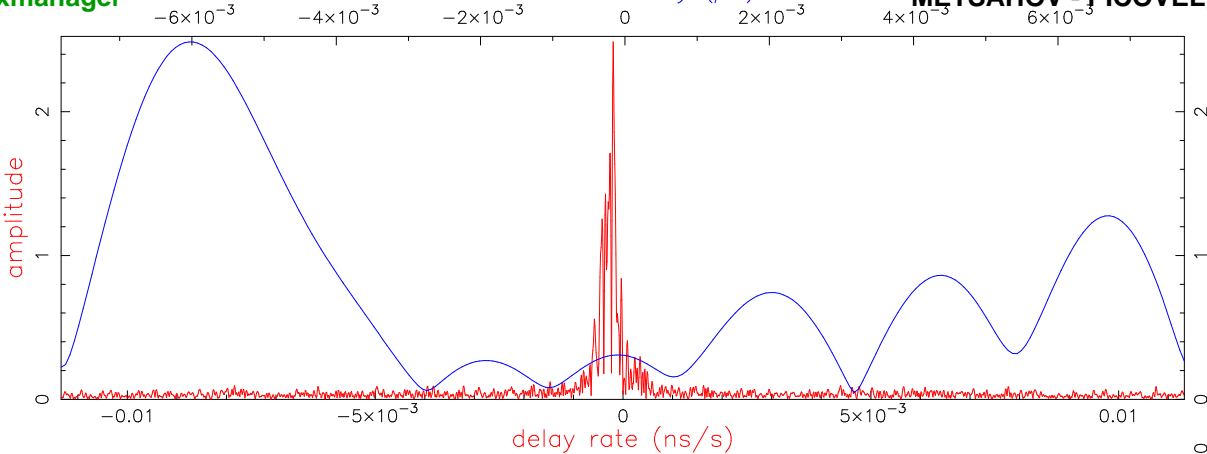
Mk4/DiFX fourfit 3.24 rev 3753

fxmanager

BLLAC.37F3IY, No0006, ZP

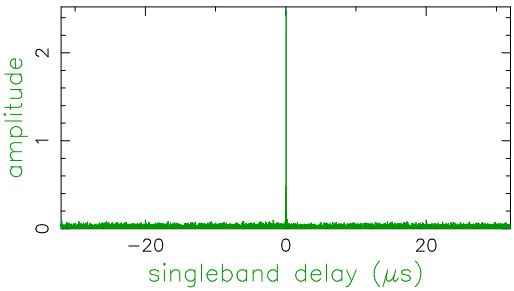
METSAHOV - PICOVEL, fgroup W, pol RR

multiband delay (μ s)

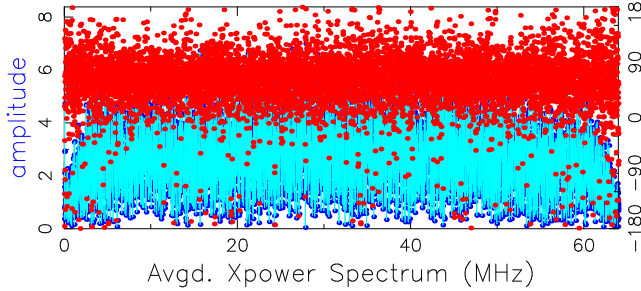


Fringe quality 3

SNR 118.0
 Int time 292.388
 Amp 2.524
 Phase -28.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.048498
 MBD -0.005980
 Fringe rate (Hz)
 -0.016920
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

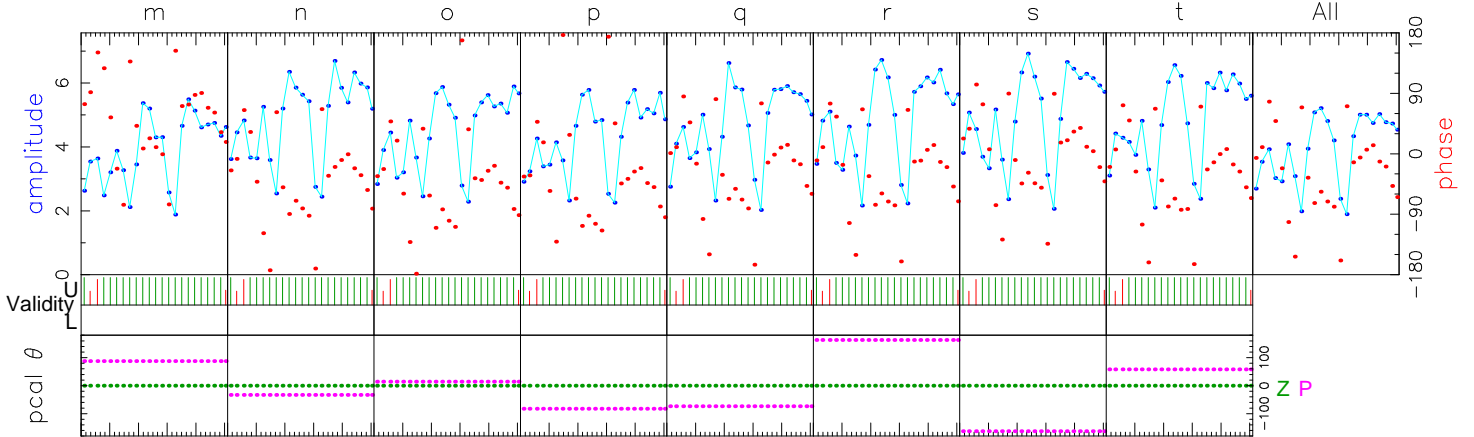


delay rate (ns/s)



Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:114815
 2023:348:201250
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 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	579/0	579/0	579/0	579/0	579/0	579/0	579/0	579/0		
Z	0	0	0	0	0	0	0	0		
P	0	0	0	0	0	0	0	0		
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:P	0:88	0:33	0:15	0:82	0:74	0:163	0:163	0:58		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec) (SBD)	-1.39966619562E+03									
Sband delay (usec)	-1.39965859262E+03									
Phase delay (usec)	-1.39970709155E+03									
Delay rate (us/s)	3.10084813136E-01									
Total phase (deg)			-311.7							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Data rate(MSamp/s):	128 MBpts	32 Amb	0.016 us							
Data rate(Mb/s):	2048									
nlags:	8192	t_cohere	infinite							
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

Z: az 300.9 el 31.8 pa 35.2

P: az 299.5 el 36.5 pa 70.0

u,v (fr/asec) -2353.102 3745.342

simultaneous interpolator

Control file: cf_1234_gmva

Input file: /Exps/f241a/FRINGE/1234/No0006/ZP..37F3IY

Output file: /Exps/f241a/FRINGE/1234/No0006/ZP.W.30.37F3IY

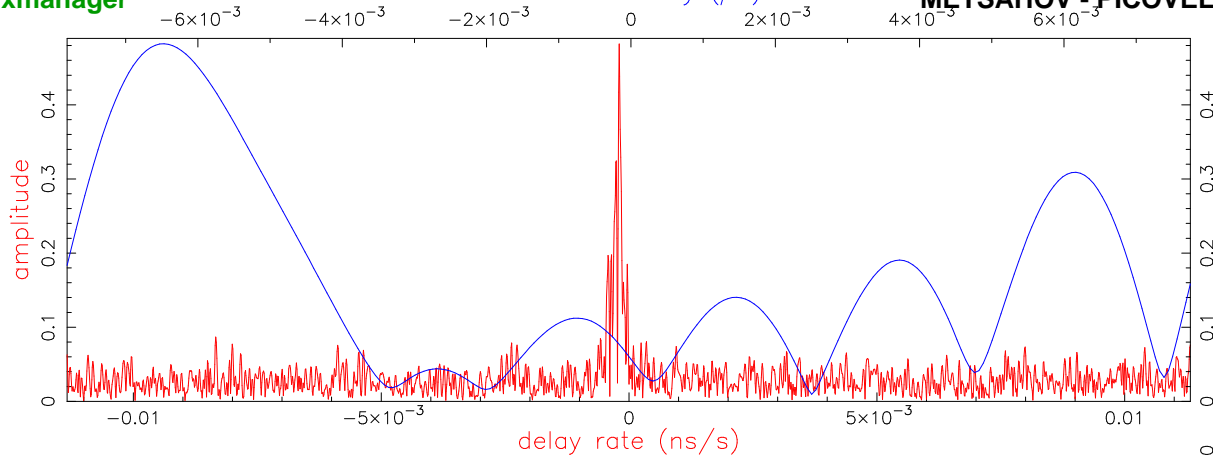
Mk4/DiFX fourfit 3.24 rev 3753

fxmanager

BLLAC.37F3IY, No0006, ZP

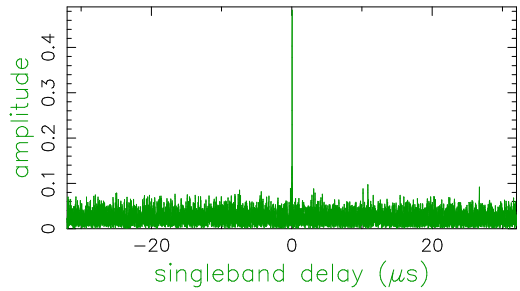
METSAHOV - PICOVEL, fgroup W, pol LR

multiband delay (μ s)

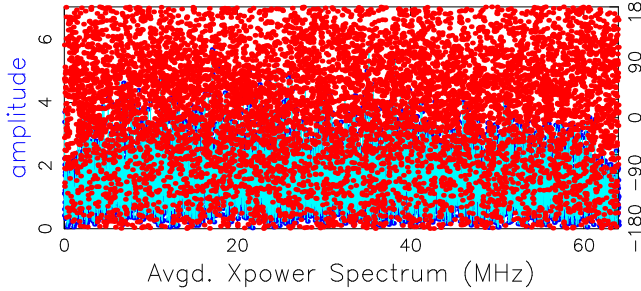


Fringe quality 8

SNR 22.9
 Int time 292.388
 Amp 0.490
 Phase -51.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.048431
 MBD -0.006441
 Fringe rate (Hz)
 -0.016992
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

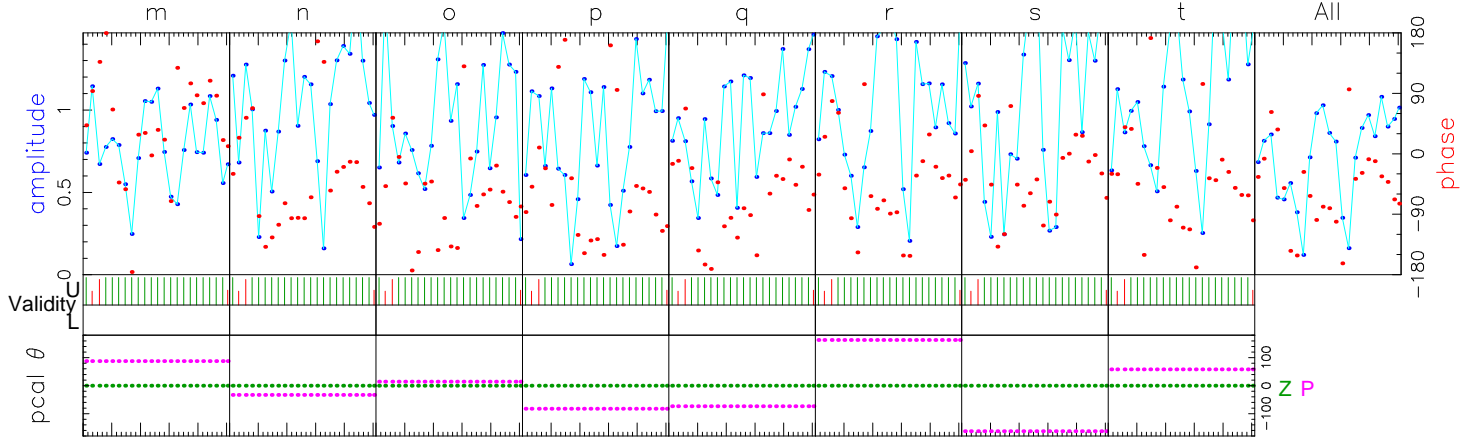


delay rate (ns/s)



Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:114937
 2023:348:201250
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 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	579/0	579/0	579/0	579/0	579/0	579/0	579/0	579/0		
Z	0	0	0	0	0	0	0	0		
P	0	0	0	0	0	0	0	0		
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:P	0:88	0:33	0:15	0:82	0:74	0:163	0:163	0:58		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	-1.39965103171E+03	Apriori delay (usec)	-1.39970709062E+03	Resid mbdelay (usec)	-6.44109E-03	+/-	4.7E-05
Sband delay (usec)	-1.39965865987E+03	Apriori clock (usec)	1.0354099E+00	Resid sbdelay (usec)	4.84307E-02	+/-	3.8E-04
Phase delay (usec)	-1.39970709229E+03	Apriori clockrate (us/s)	4.3535206E-07	Resid phdelay (usec)	-1.66961E-06	+/-	1.6E-07
Delay rate (us/s)	3.10084812302E-01	Apriori rate (us/s)	3.10085009557E-01	Resid rate (us/s)	-1.97255E-07	+/-	9.4E-10
Total phase (deg)	-334.8	Apriori accel (us/s/s)	2.76289254574E-05	Resid phase (deg)	-51.8	+/-	5.0

ph/seg (deg)	62.6	RMS	11.9	Theor.	11.9	Amplitude	0.490 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	72.3	Search (2048X32)	0.476	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000	32.000	
ph/frq (deg)	51.1	Inc. seg. avg.	0.697	Inc. frq. avg.	0.590	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	29.2	Inc. frq. avg.	0.590	Data rate (MSamp/s):	128 MBpts	32 Amb	0.016 us	dr window (ns/s)	-0.011	0.011	
Z: az 300.9 el 31.8 pa 35.2		P: az 299.5 el 36.5 pa 70.0		u,v (fr/asec)	-2353.102	3745.342		ion window (TEC)	0.00	0.00	

Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/ZP..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/ZP.W.31.37F3IY simultaneous interpolator

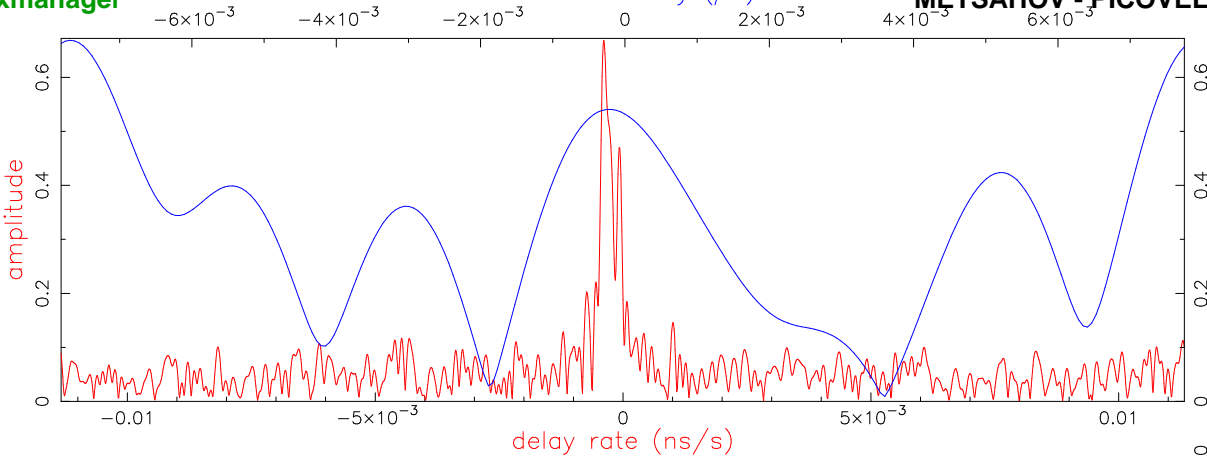
Mk4/DiFX fourfit 3.24 rev 3753

fxmanager

BLLAC.37F3IY, No0006, ZP

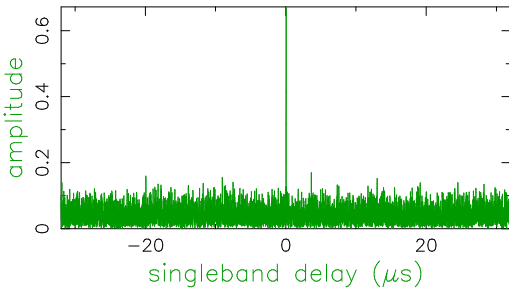
METSAHOV - PICOVEL, fgroup W, pol RL

multiband delay (μ s)

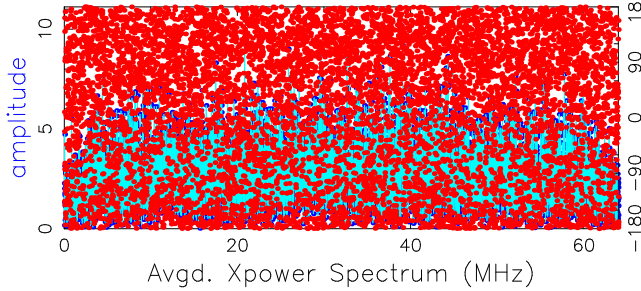


Fringe quality 5

SNR 18.4
 Int time 100.541
 Amp 0.672
 Phase 109.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.053757
 MBD -0.007703
 Fringe rate (Hz)
 -0.033826
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



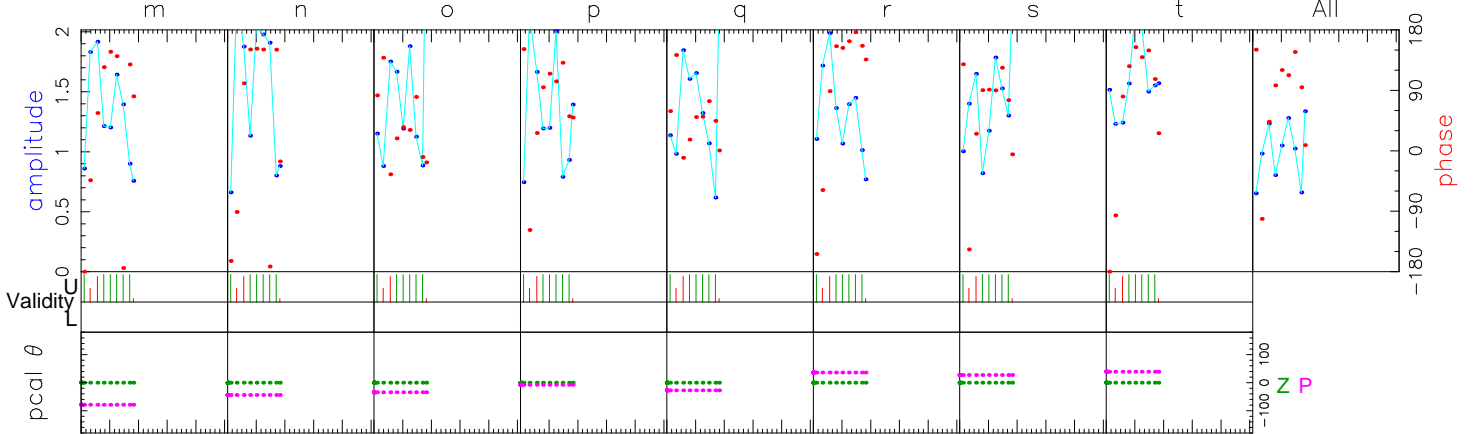
singleband delay (μ s)



Avgd. Xpower Spectrum (MHz)

Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:115056
 2023:348:201250
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"

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

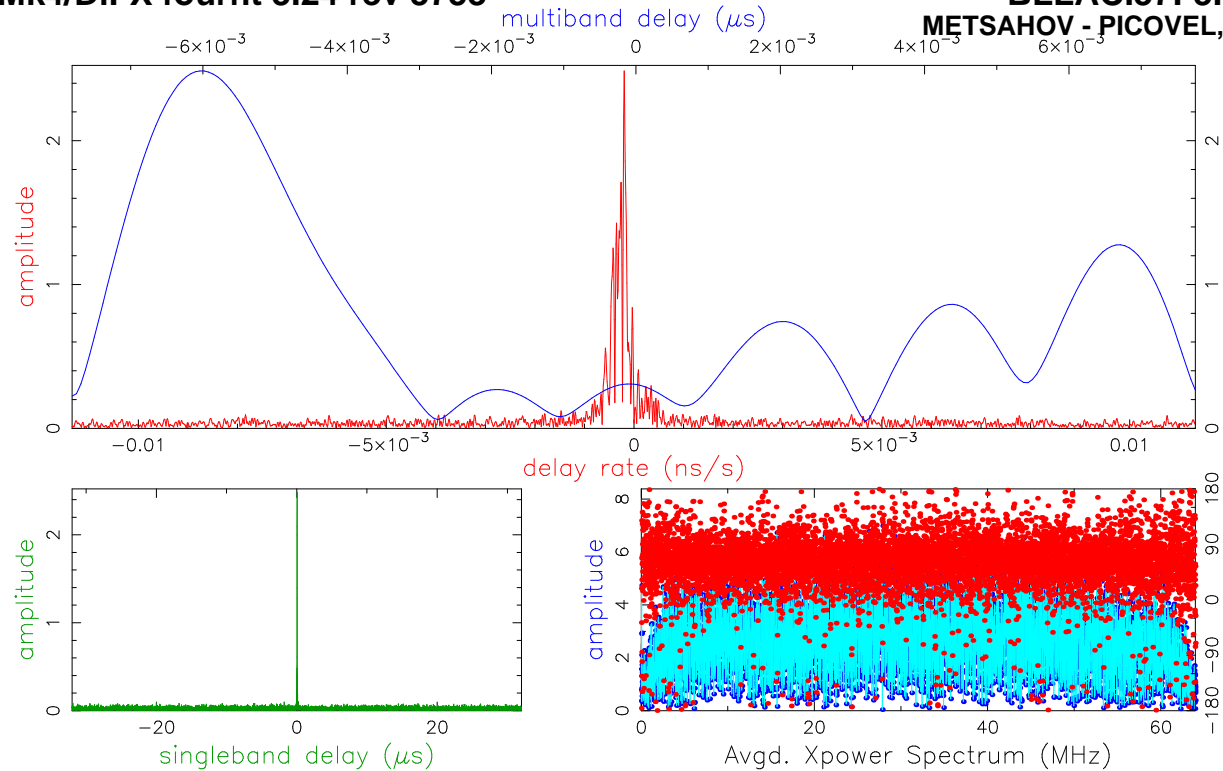


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	134.3	159.6	27.3	96.5	39.3	157.7	90.7	139.0	Phase	109.6
	0.8	1.1	1.0	0.8	1.1	0.9	1.0	1.3	Ampl.	1.0
	8205.9	8206.6	8206.9	8207.9	8208.2	8207.8	8208.1	8207.2	Sbd box	8206.8
U/L	205/0	205/0	205/0	205/0	205/0	205/0	205/0	205/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:P	0:-79	0:-44	0:-34	0:-8	0:-28	0:36	0:27	0:39	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD) -1.39965229337E+03 Apriori delay (usec) -1.39970709062E+03 Resid mbdelay (usec) -7.70275E-03 +/- 5.9E-05
 Sband delay (usec) -1.39965333412E+03 Apriori clock (usec) 1.0354099E+00 Resid sbdelay (usec) 5.37565E-02 +/- 4.7E-04
 Phase delay (usec) -1.39970708709E+03 Apriori clockrate (us/s) 4.3535206E-07 Resid phdelay (usec) 3.53404E-06 +/- 2.0E-07
 Delay rate (us/s) 3.10084616867E-01 Apriori rate (us/s) 3.10085009557E-01 Resid rate (us/s) -3.92690E-07 +/- 3.3E-09
 Total phase (deg) -173.4 Apriori accel (us/s/s) 2.76289254574E-05 Resid phase (deg) 109.6 +/- 6.2

RMS Theor. Amplitude 0.672 +/- 0.036 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 51.6 8.8 Search (2048X32) 0.655 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 55.8 15.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 55.6 8.8 Inc. seg. avg. 0.934 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 54.1 15.4 Inc. frq. avg. 0.985 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 300.9 el 31.8 pa 35.2 P: az 299.5 el 36.5 pa 70.0 u,v (fr/asec) -2353.102 3745.342 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/ZP..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/ZP.W.32.37F3IY

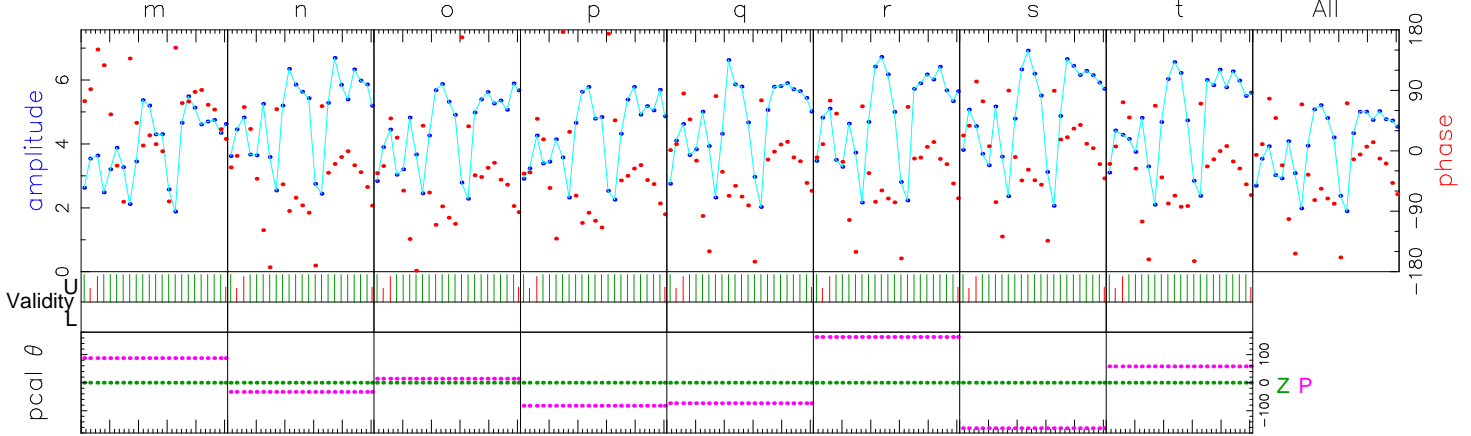


Fringe quality 3

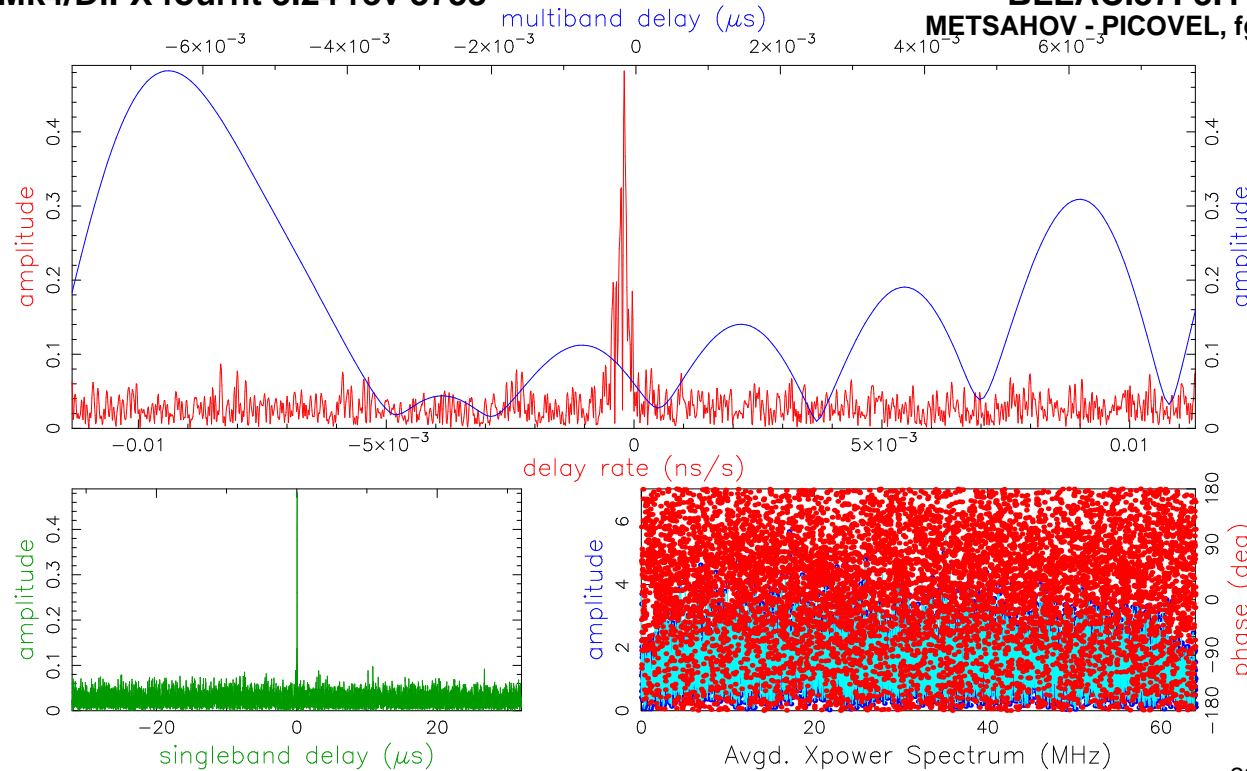
SNR 118.0
 Int time 292.388
 Amp 2.524
 Phase -28.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.048498
 MBD -0.005980
 Fringe rate (Hz)
 -0.016920
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:095344
 2023:314:152938
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"

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

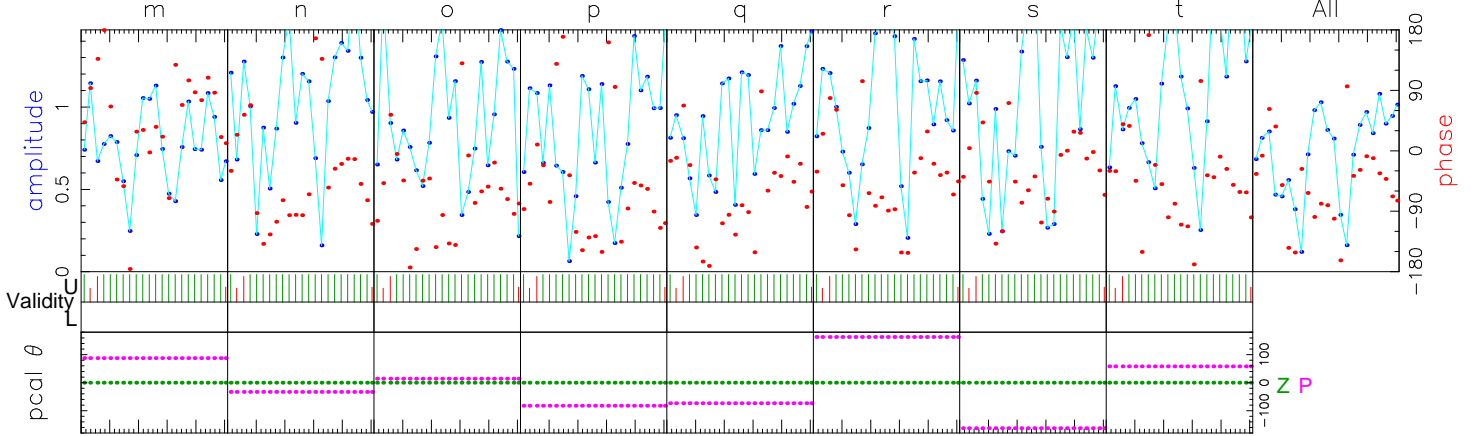


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	50.9	-42.3	-60.4	-61.4	-26.3	-29.0	-2.5	-34.5	Phase	-28.6	
	2.5	3.0	2.8	2.7	2.9	3.1	3.2	3.0	Ampl.	2.9	
	8203.3	8204.6	8204.9	8205.6	8205.9	8205.1	8205.7	8204.8	Sbd box	8205.4	
U/L	579/0	579/0	579/0	579/0	579/0	579/0	579/0	579/0	APs used		
Z	0	0	0	0	0	0	0	0	PC freqs		
P	0	0	0	0	0	0	0	0	PC freqs		
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
Z:P	0:88	0:33	0:15	0:82	0:74	0:163	0:163	0:58	Manl PC		
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
P	1000	1000	1000	1000	1000	1000	1000	1000			
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks		
									Tracks		
Group delay (usec) (SBD)	-1.39966619562E+03		Apriori delay (usec)		-1.39970709062E+03		Resid mbdelay (usec)		-5.98000E-03	+/- 9.2E-06	
Sband delay (usec)	-1.39965859262E+03		Apriori clock (usec)		1.0354099E+00		Resid sbdelay (usec)		4.84980E-02	+/- 7.3E-05	
Phase delay (usec)	-1.39970709155E+03		Apriori clockrate (us/s)		4.3535206E-07		Resid phdelay (usec)		-9.23212E-07	+/- 3.1E-08	
Delay rate (us/s)	3.10084813136E-01		Apriori rate (us/s)		3.10085009557E-01		Resid rate (us/s)		-1.96421E-07	+/- 1.8E-10	
Total phase (deg)			Apriori accel (us/s/s)		2.76289254574E-05		Resid phase (deg)		-28.6	+/- 1.0	
RMS	63.0	2.3	Amplitude		2.524 +/- 0.021		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		
ph/seg (deg)	63.0	2.3	Search (2048X32)		2.440		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-32.000 32.000	
amp/seg (%)	70.3	4.0	Interp.		0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	39.4	1.4	Inc. seg. avg.		3.950		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.011 0.011	
amp/frq (%)	17.3	2.4	Inc. frq. avg.		2.899		Data rate(Mb/s): 2048		nlags: 8192 t_cohere infinite	ion window (TEC)	0.00 0.00
Z: az 300.9 el 31.8 pa 35.2	P: az 299.5 el 36.5 pa 70.0		u, v (fr/asec)		-2353.102 3745.342				simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/f241a/FRINGE/1234/No0006/ZP..37F3IY		Output file: /Exps/f241a/FRINGE/1234/No0006/ZP.W.5.37F3IY								



Fringe quality 8
 SNR 22.9
 Int time 292.388
 Amp 0.490
 Phase -51.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.048431
 MBD -0.006441
 Fringe rate (Hz)
 -0.016992
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:095505
 2023:314:152938
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"

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



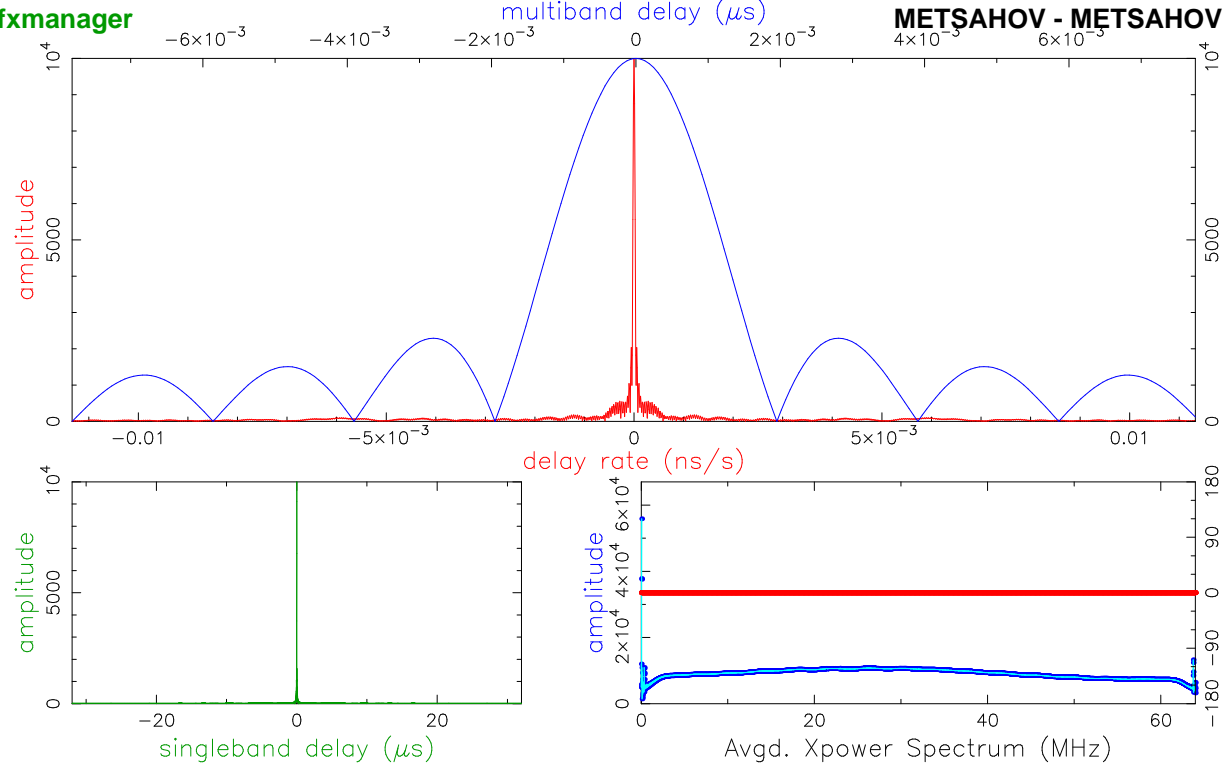
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	58.0	-54.4	-78.1	-95.7	-63.8	-44.0	-24.8	-57.3	Phase	-51.8	
	0.4	0.6	0.6	0.5	0.5	0.6	0.7	0.8	Ampl.	0.6	
	8203.1	8204.6	8204.9	8205.2	8205.9	8204.9	8205.5	8204.9	Sbd box	8205.4	
U/L	579/0	579/0	579/0	579/0	579/0	579/0	579/0	579/0	APs used		
Z	0	0	0	0	0	0	0	0	PC freqs		
P	0	0	0	0	0	0	0	0	PC freqs		
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
Z:P	0:88	0:33	0:15	0:82	0:74	0:163	0:163	0:58	Manl PC		
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
P	1000	1000	1000	1000	1000	1000	1000	1000			
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks		
									Tracks		
Group delay (usec) (SBD)	-1.39965103171E+03		Apriori delay (usec)		-1.39970709062E+03		Resid mbdelay (usec)		-6.44109E-03	+/- 4.7E-05	
Sband delay (usec)	-1.39965865987E+03		Apriori clock (usec)		1.0354099E+00		Resid sbdelay (usec)		4.84307E-02	+/- 3.8E-04	
Phase delay (usec)	-1.39970709229E+03		Apriori clockrate (us/s)		4.3535206E-07		Resid phdelay (usec)		-1.66961E-06	+/- 1.6E-07	
Delay rate (us/s)	3.10084812302E-01		Apriori rate (us/s)		3.10085009557E-01		Resid rate (us/s)		-1.97255E-07	+/- 9.4E-10	
Total phase (deg)			Apriori accel (us/s/s)		2.76289254574E-05		Resid phase (deg)		-51.8	+/- 5.0	
	RMS	Theor.	Amplitude	0.490 +/- 0.021		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	62.6	11.9	Search (2048X32)	0.476		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-32.000 32.000	
amp/seg (%)	72.3	20.8	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	51.1	7.1	Inc. seg. avg.	0.697		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011 0.011	
amp/frq (%)	29.2	12.4	Inc. frq. avg.	0.590		Data rate(Mb/s): 2048		nlags: 8192 t_cohere infinite		ion window (TEC)	0.00 0.00
Z: az 300.9 el 31.8 pa 35.2	P: az 299.5 el 36.5 pa 70.0		u,v (fr/asec)		-2353.102 3745.342				simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/f241a/FRINGE/1234/No0006/ZP..37F3IY		Output file: /Exps/f241a/FRINGE/1234/No0006/ZP.W.8.37F3IY								

Mk4/DiFX fourfit 3.24 rev 3753

fxmanager

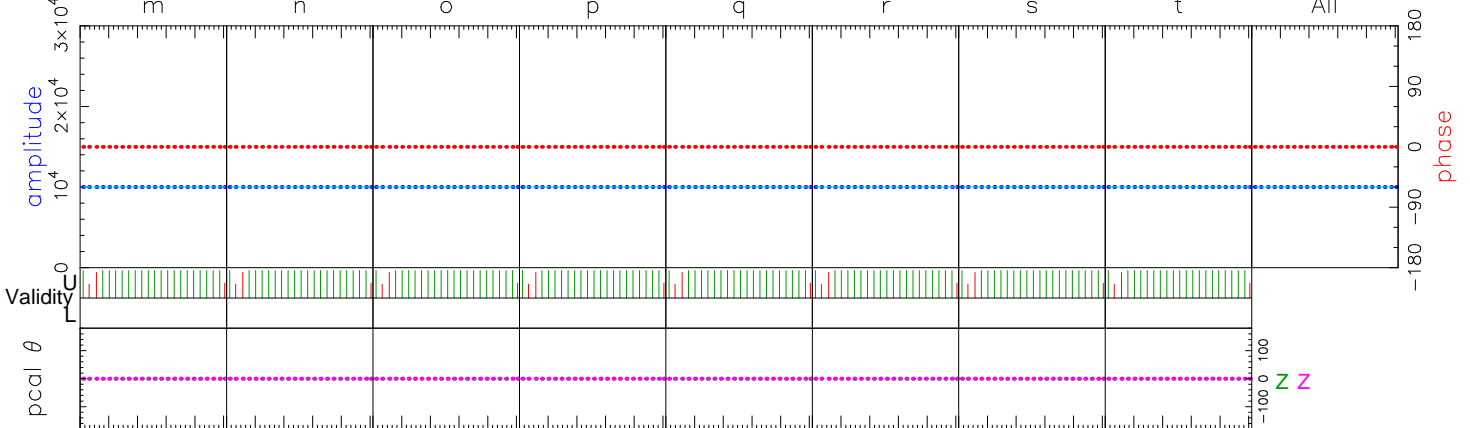
BLLAC.37F3IY, No0006, ZZ

METŜAHOV - MET̂SAHOV, fgroup W, pol LL



Fringe quality 9
 SNR 467603.6
 Int time 292.388
 Amp 10000.002
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz) 0.000000
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:114149
 2023:348:201250
 RA & Dec (J2000) 22h02m43.291370s +42°16'39.979897"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 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	579/0	579/0	579/0	579/0	579/0	579/0	579/0	579/0		
Z	0	0	0	0	0	0	0	0		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 2.3E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.8E-08
 Phase delay (usec) 0.0000000000E+00 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 0.00000E+00 +/- 7.9E-12
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 4.6E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

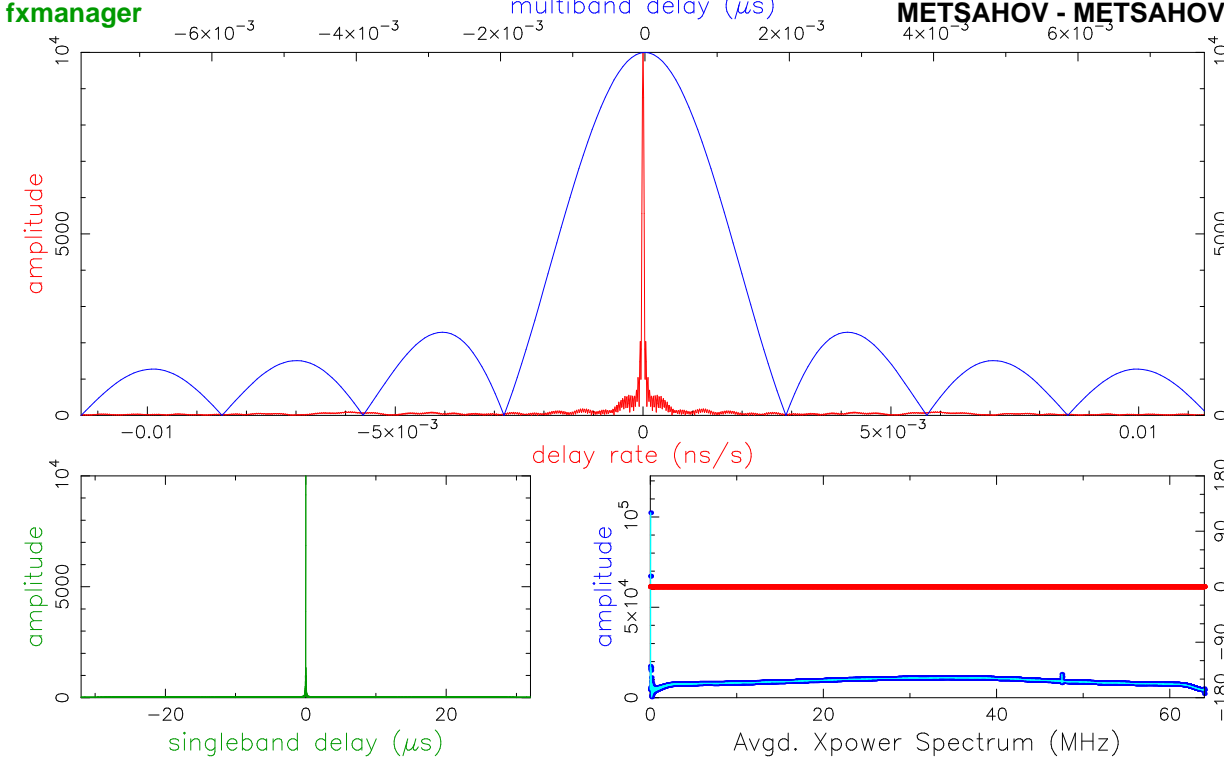
ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10000.002 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 10000.003 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Z: az 300.9 el 31.8 pa 35.2 Z: az 300.9 el 31.8 pa 35.2 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/ZZ..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/ZZ.W.25.37F3IY simultaneous interpolator

Mk4/DiFX fourfit 3.24 rev 3753

fxmanager

BLLAC.37F3IY, No0006, ZZ

METŜAHOV - MET̂SAHOV, fgroup W, pol RR

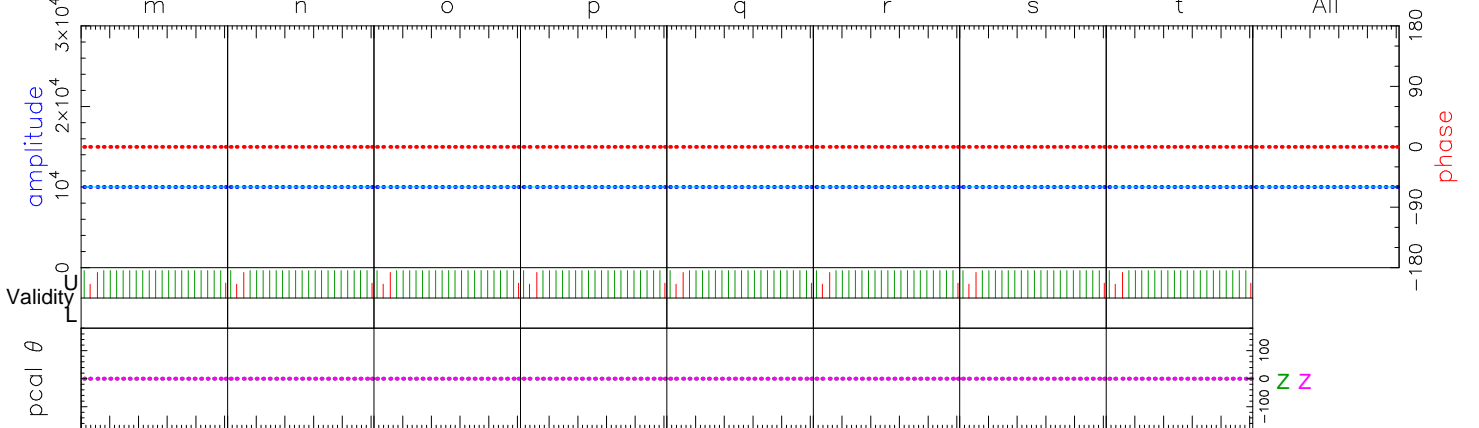


Fringe quality 9

SNR 467603.6
 Int time 292.388
 Amp 10000.002
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz) 0.000000
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:114302
 2023:348:201250
 RA & Dec (J2000) 22h02m43.291370s +42°16'39.979897"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 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	579/0	579/0	579/0	579/0	579/0	579/0	579/0	579/0		
Z	0	0	0	0	0	0	0	0		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD) 0.000000000000E+00 Apriori delay (usec) 0.000000000000E+00 Resid mbdelay (usec) 0.000000E+00 +/- 2.3E-09
 Sband delay (usec) 0.000000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.000000E+00 +/- 1.8E-08
 Phase delay (usec) 0.000000000000E+00 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 0.000000E+00 +/- 7.9E-12
 Delay rate (us/s) 0.000000000000E+00 Apriori rate (us/s) 0.000000000000E+00 Resid rate (us/s) 0.000000E+00 +/- 4.6E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.000000000000E+00 Resid phase (deg) 0.0 +/- 0.0

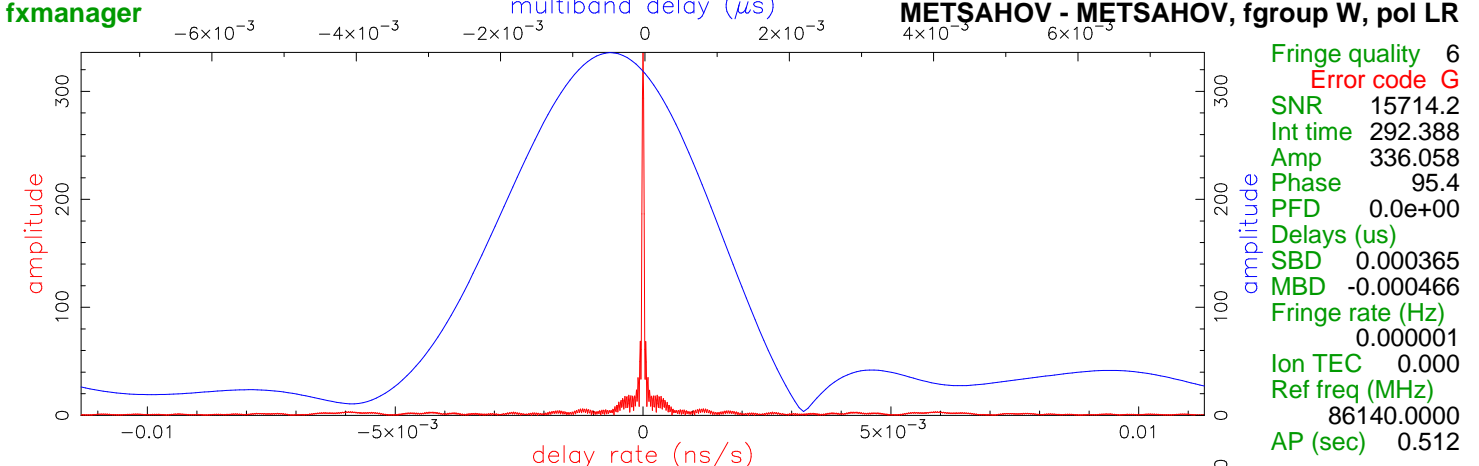
ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10000.002 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 10000.003 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Z: az 300.9 el 31.8 pa 35.2 Z: az 300.9 el 31.8 pa 35.2 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/ZZ..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/ZZ.W.26.37F3IY simultaneous interpolator

Mk4/DiFX fourfit 3.24 rev 3753

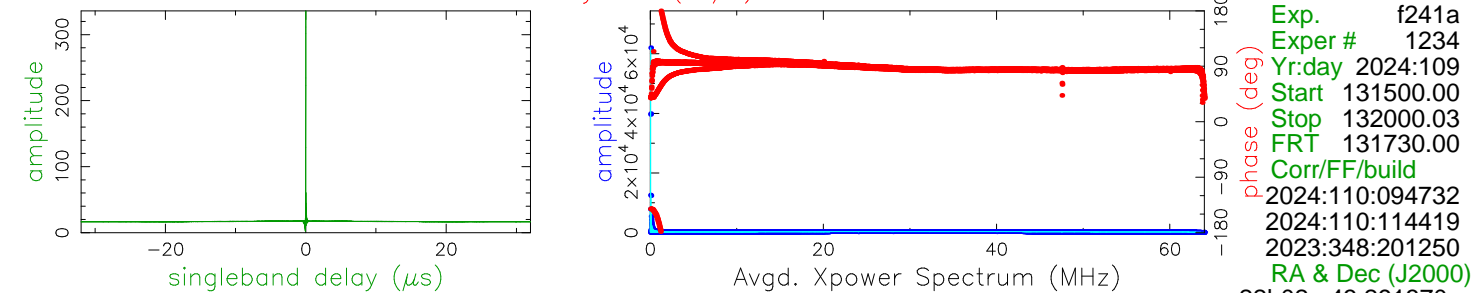
fxmanager

BLLAC.37F3IY, No0006, ZZ

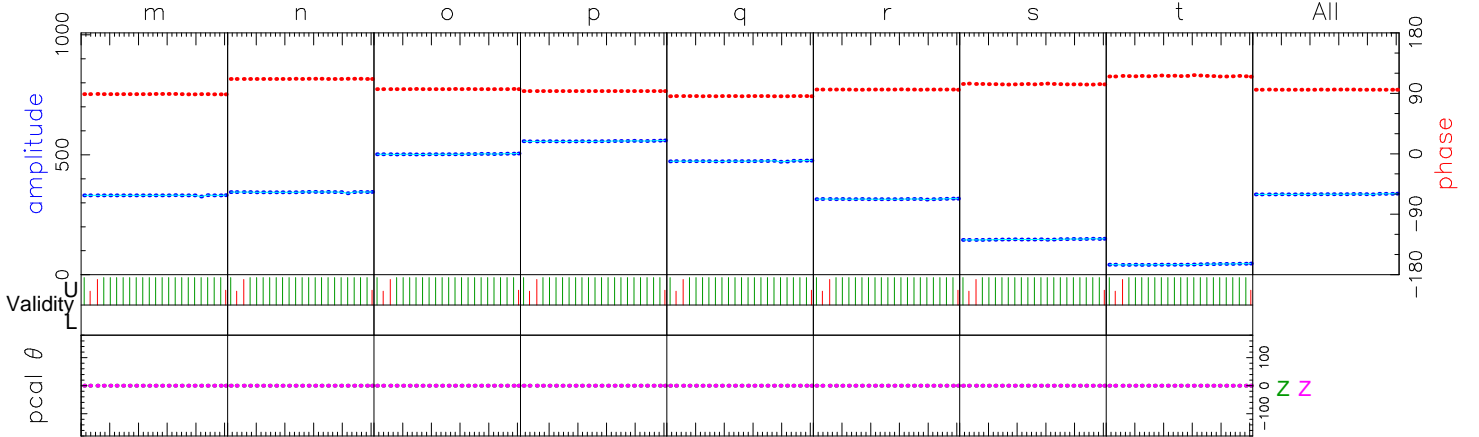
METŜAHOV - MET̂SAHOV, fgroup W, pol LR



Fringe quality 6
 Error code G
 SNR 15714.2
 Int time 292.388
 Amp 336.058
 Phase 95.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.000365
 MBD -0.000466
 Fringe rate (Hz)
 0.000001
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:114419
 2023:348:201250
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 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
	88.7	111.4	96.3	93.3	85.8	95.5	103.5	115.7	Phase	95.4
	330.7	344.1	502.6	556.7	473.4	315.2	147.3	43.1	Ampl.	339.2
	8192.9	8193.1	8192.8	8192.9	8192.9	8193.4	8194.4	8198.1	Sbd box	8193.1
U/L	579/0	579/0	579/0	579/0	579/0	579/0	579/0	579/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD) -4.660000000000E-04 Apriori delay (usec) 0.000000000000E+00 Resid mbdelay (usec) -4.660000E-04 +/- 6.9E-08
 Sband delay (usec) 3.655000000000E-04 Apriori clock (usec) 0.000000000000E+00 Resid sbdelay (usec) 3.655000E-04 +/- 5.5E-07
 Phase delay (usec) 3.07704513536E-06 Apriori clockrate (us/s) 0.000000000000E+00 Resid phdelay (usec) 3.07705E-06 +/- 2.4E-10
 Delay rate (us/s) 7.79413381543E-12 Apriori rate (us/s) 0.000000000000E+00 Resid rate (us/s) 7.79413E-12 +/- 1.4E-12
 Total phase (deg) 95.4 Apriori accel (us/s/s) 0.000000000000E+00 Resid phase (deg) 95.4 +/- 0.0

RMS Theor. Amplitude 336.058 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.1 0.0 Search (2048X32) 335.793 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 0.3 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 12.1 0.0 Inc. seg. avg. 335.793 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 49.0 0.0 Inc. frq. avg. 339.151 Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite ion window (TEC) 0.00 0.00
 Z: az 300.9 el 31.8 pa 35.2 Z: az 300.9 el 31.8 pa 35.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/ZZ..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/ZZ.W.27.37F3IY

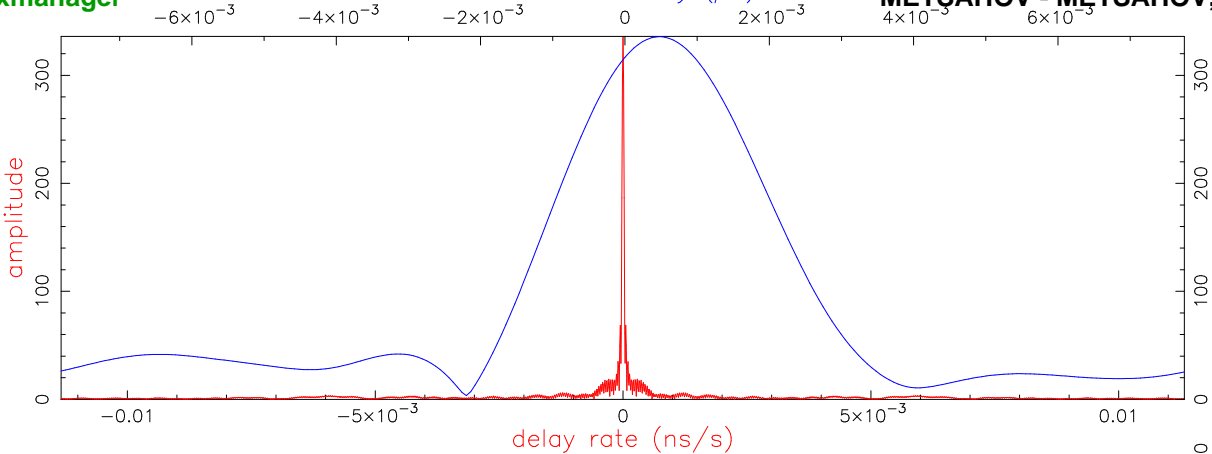
Mk4/DiFX fourfit 3.24 rev 3753

fxmanager

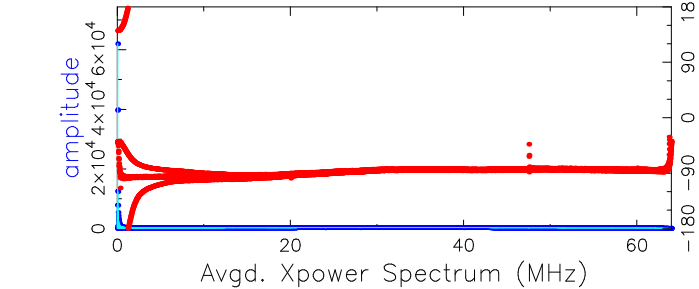
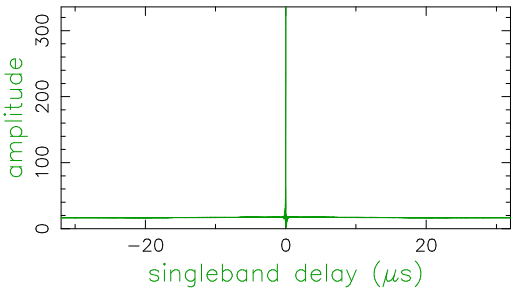
BLLAC.37F3IY, No0006, ZZ

METŜAHOV - MET̂SAHOV, fgroup W, pol RL

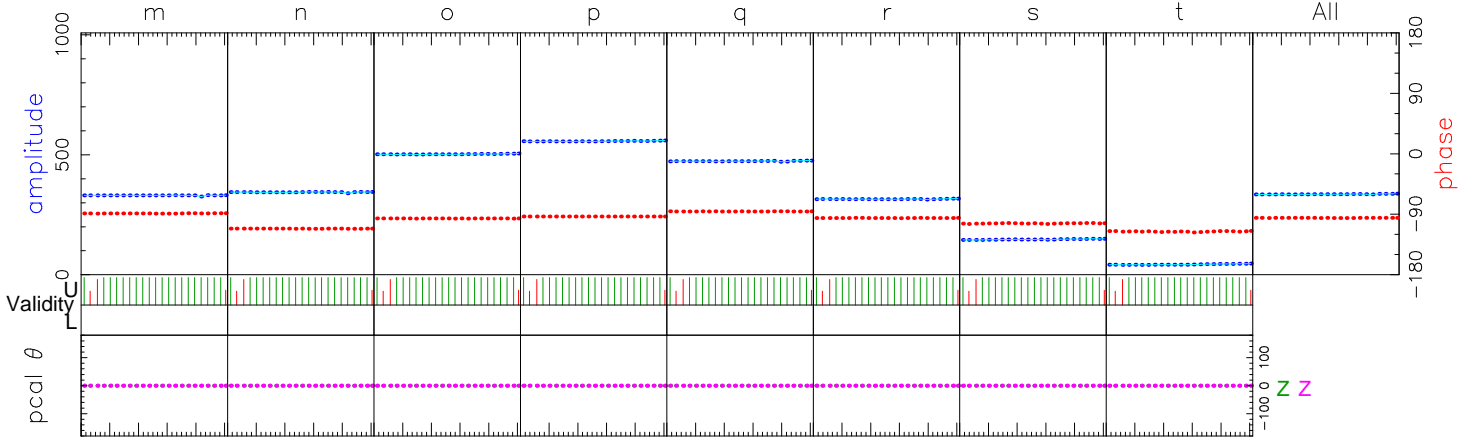
multiband delay (μ s)



Fringe quality 6
 Error code G
 SNR 15714.2
 Int time 292.388
 Amp 336.058
 Phase -95.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.000365
 MBD 0.000466
 Fringe rate (Hz)
 -0.000001
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. f241a
 Exper # 1234
 Yr:day 2024:109
 Start 131500.00
 Stop 132000.03
 FRT 131730.00
 Corr/FF/build
 2024:110:094732
 2024:110:114535
 2023:348:201250
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979897"



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 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
	-88.7	-111.4	-96.3	-93.3	-85.8	-95.5	-103.5	-115.7	Phase	-95.4
	330.7	344.1	502.6	556.7	473.4	315.2	147.3	43.1	Ampl.	339.2
	8193.1	8192.9	8193.2	8193.1	8193.1	8192.6	8191.6	8187.9	Sbd box	8192.9
U/L	579/0	579/0	579/0	579/0	579/0	579/0	579/0	579/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	4.660000000000E-04	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	4.660000E-04	+/-	6.9E-08
Sband delay (usec)	-3.655000000000E-04	Apriori clock (usec)	0.000000000000E+00	Resid sbdelay (usec)	-3.655000E-04	+/-	5.5E-07
Phase delay (usec)	-3.07704513534E-06	Apriori clockrate (us/s)	0.000000000000E+00	Resid phdelay (usec)	-3.07705E-06	+/-	2.4E-10
Delay rate (us/s)	-7.79413381543E-12	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	-7.79413E-12	+/-	1.4E-12
Total phase (deg)	-95.4	Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	-95.4	+/-	0.0

ph/seg (deg) 0.1 0.0 Search (2048X32) 335.793 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.3 0.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 12.1 0.0 Inc. seg. avg. 335.793 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 49.0 0.0 Inc. frq. avg. 339.151 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Z: az 300.9 el 31.8 pa 35.2 Z: az 300.9 el 31.8 pa 35.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/f241a/FRINGE/1234/No0006/ZZ..37F3IY Output file: /Exps/f241a/FRINGE/1234/No0006/ZZ.W.28.37F3IY