

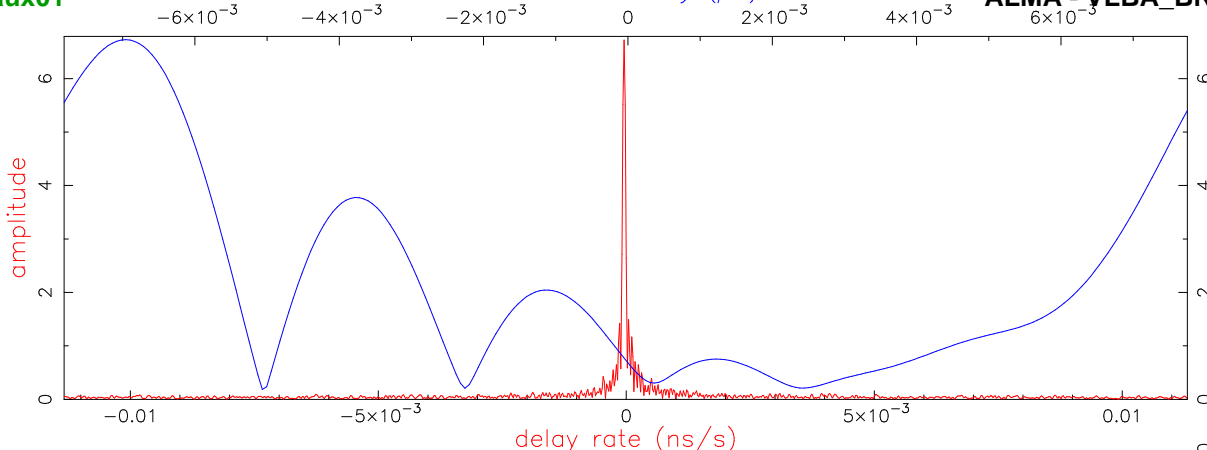
Mk4/DiFX fourfit 3.25 rev 0

aux01

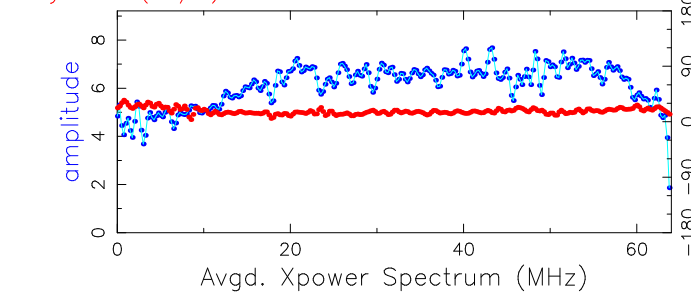
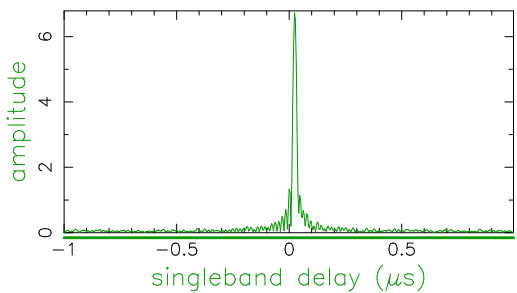
3C273.3MP2MB, No0707, Ab

ALMA - VLBA_BR, fgroup W, pol XL

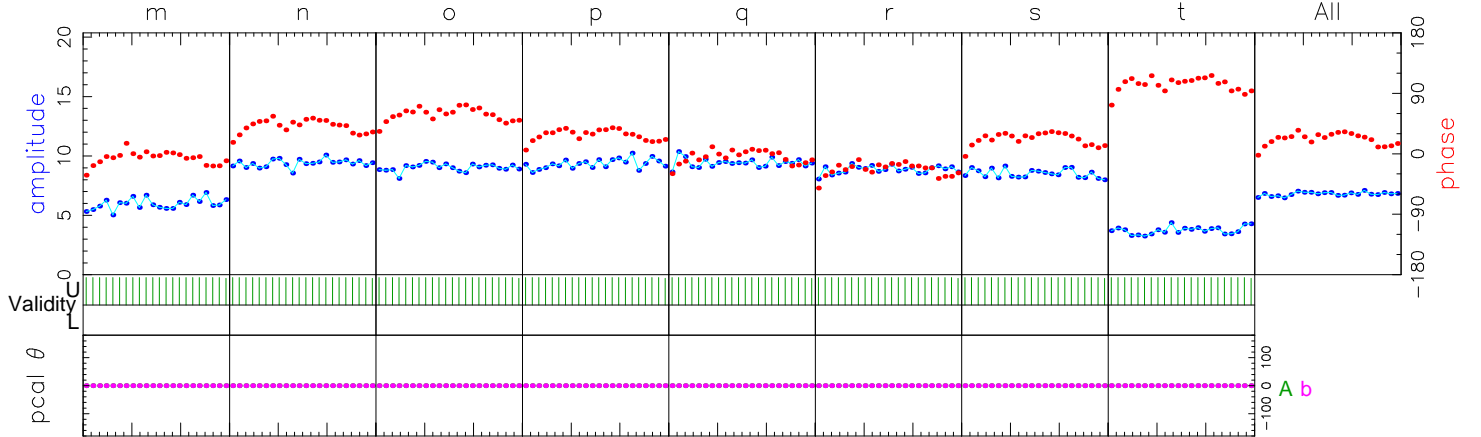
multiband delay (μ s)



Fringe quality 6
 Error code G
 SNR 249.1
 Int time 179.965
 Amp 6.789
 Phase 21.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.024724
 MBD -0.006899
 Fringe rate (Hz)
 -0.003164
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175858
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-6.4	41.1	58.3	27.9	-4.7	-23.4	22.0	102.9	Phase	21.7
	5.9	9.3	8.9	9.3	9.3	8.7	8.4	3.7	Ampl.	7.9
	265.2	263.2	262.9	263.3	263.2	263.4	263.8	266.2	Sbd box	263.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
b	0	0	0	0	0	0	0	0	PC freqs	
A:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UX	W12UX	W13UX	W14UX	W15UX	W16UX	W17UX	W18UX	Chan ids	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	4.93584688671E+03		Apriori delay (usec)		4.93582253606E+03		Resid mbdelay (usec)		-6.89935E-03	+/- 4.4E-06
Sband delay (usec)	4.93584726031E+03		Apriori clock (usec)		-2.1120359E+03		Resid sbdelay (usec)		2.47243E-02	+/- 3.5E-05
Phase delay (usec)	4.93582253675E+03		Apriori clockrate (us/s)		-5.8727285E-07		Resid phdelay (usec)		6.99043E-07	+/- 1.5E-08
Delay rate (us/s)	-9.80656966506E-01		Apriori rate (us/s)		-9.80656929775E-01		Resid rate (us/s)		-3.67316E-08	+/- 1.4E-10
Total phase (deg)	113.8		Apriori accel (us/s/s)		-4.17531900808E-05		Resid phase (deg)		21.7	+/- 0.5

RMS Theor. Amplitude 6.789 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 8.9 1.1 Search (1024X32) 6.546 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 2.3 1.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 44.5 0.7 Inc. seg. avg. 6.800 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 32.9 1.1 Inc. frq. avg. 7.932 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 A: az 330.6 el 61.8 pa 152.8 b: az 132.0 el 33.1 pa -29.7 u,v (fr/asec) 5595.466 -10148.942 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//Ab..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//Ab.W.1.3MP2MB

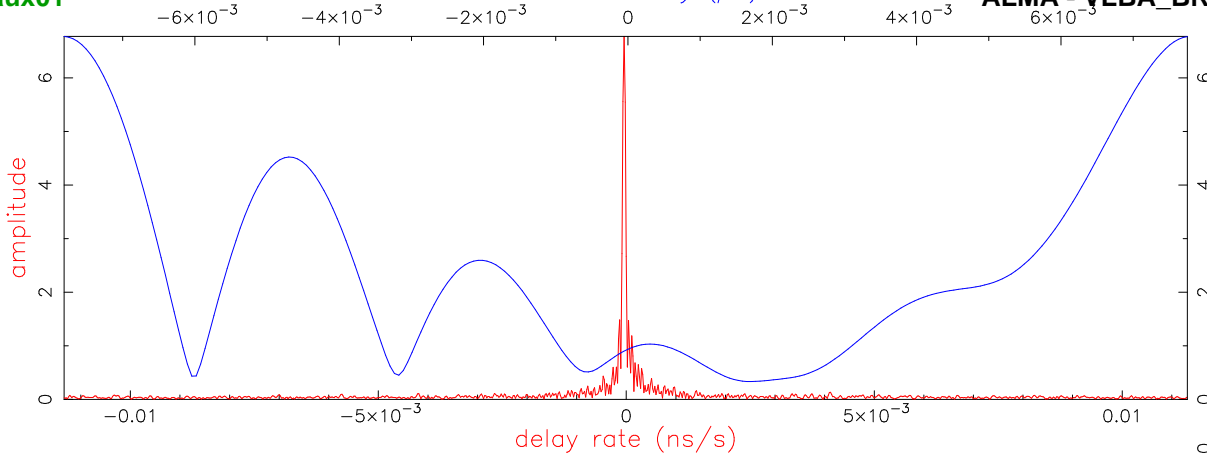
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, Ab

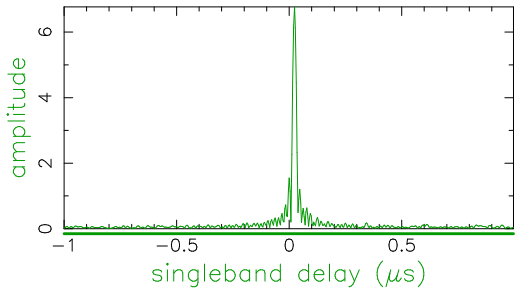
ALMA - VLBA_BR, fgroup W, pol YR

multiband delay (μ s)

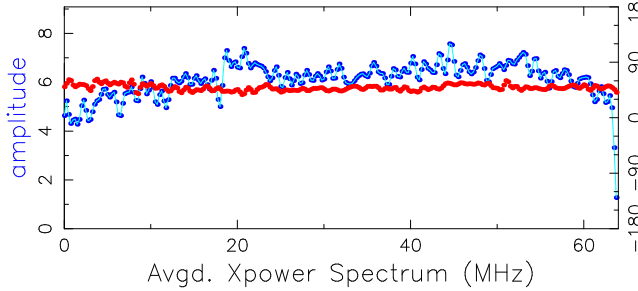


Fringe quality 6

SNR 248.4
 Int time 179.965
 Amp 6.772
 Phase 48.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.023374
 MBD -0.007837
 Fringe rate (Hz)
 -0.003156
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

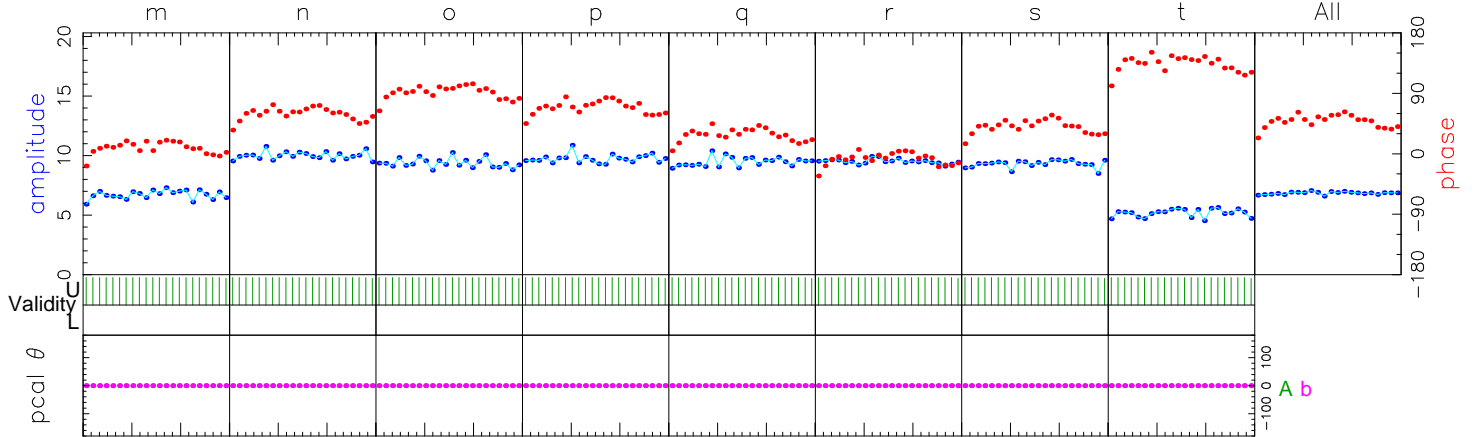


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175900
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	8.7	59.2	91.4	69.0	28.1	-7.4	40.2	133.6	Phase	48.5
	6.7	9.9	9.3	9.6	9.4	9.4	9.2	5.1	Ampl.	8.6
	265.1	263.0	262.7	262.9	262.8	262.9	263.6	265.5	Sbd box	263.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
b	0	0	0	0	0	0	0	0	PC freqs	
A:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UY	W12UY	W13UY	W14UY	W15UY	W16UY	W17UY	W18UY	Chan ids	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	4.9358459490E+03	Apriori delay (usec)	4.93582253606E+03	Resid mbdelay (usec)	-7.83666E-03	+/-	4.4E-06
Sband delay (usec)	4.93584591056E+03	Apriori clock (usec)	-2.1120359E+03	Resid sbdelay (usec)	2.33745E-02	+/-	3.5E-05
Phase delay (usec)	4.93582253762E+03	Apriori clockrate (us/s)	-5.8727285E-07	Resid phdelay (usec)	1.56261E-06	+/-	1.5E-08
Delay rate (us/s)	-9.80656966414E-01	Apriori rate (us/s)	-9.80656929775E-01	Resid rate (us/s)	-3.66395E-08	+/-	1.4E-10
Total phase (deg)	140.6	Apriori accel (us/s/s)	-4.17531900808E-05	Resid phase (deg)	48.5	+/-	0.5

ph/seg (deg)	9.2	Theor.	1.1	Amplitude	6.772 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	2.1	1.9	Search (1024X32)	6.615	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	49.7	0.7	Inc. seg. avg.	6.858	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	35.5	1.1	Inc. frq. avg.	8.557	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
					Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

A: az 330.6 el 61.8 pa 152.8 b: az 132.0 el 33.1 pa -29.7 u,v (fr/asec) 5595.466 -10148.942 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//Ab..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//Ab.W.2.3MP2MB

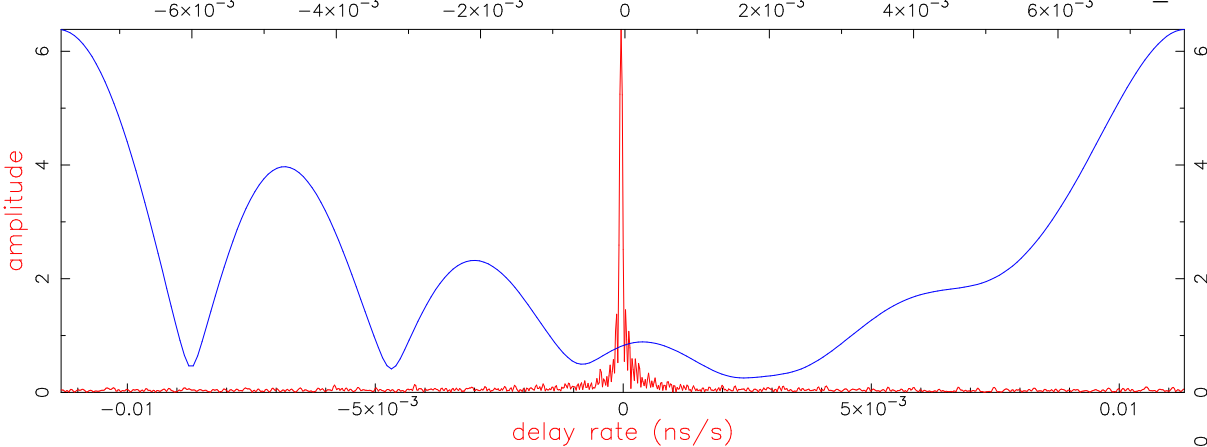
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, Ab

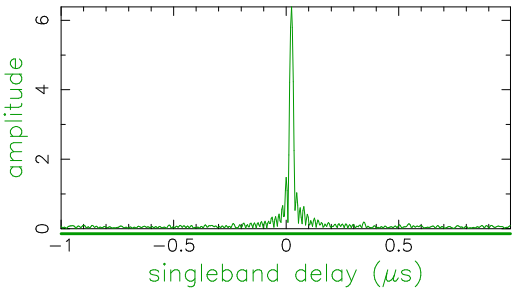
ALMA - VLBA_BR, fgroup W, pol XR

multiband delay (μ s)

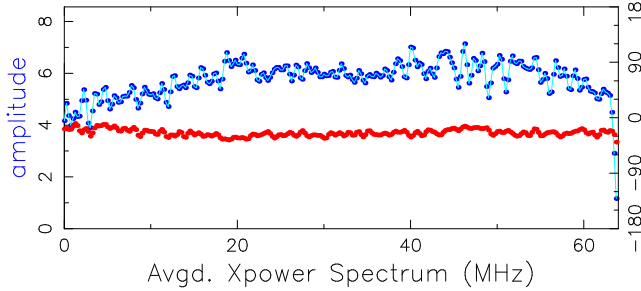


Fringe quality 6

SNR 234.3
 Int time 179.965
 Amp 6.387
 Phase -24.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.023410
 MBD -0.007862
 Fringe rate (Hz)
 -0.003141
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

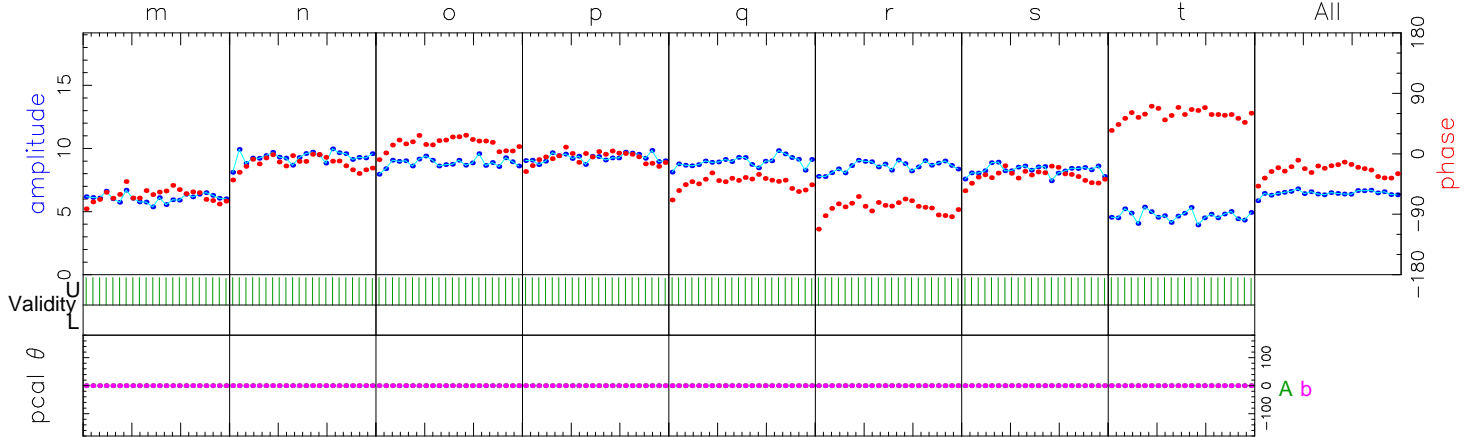


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175902
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-61.9	-14.2	15.1	-5.9	-42.9	-80.4	-32.8	57.9	Phase	-24.3
	6.0	9.2	8.8	9.2	8.8	8.4	8.2	4.6	Ampl.	7.9
	265.2	262.9	262.7	262.9	262.8	262.9	263.6	265.5	Sbd box	263.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
b	0	0	0	0	0	0	0	0	PC freqs	
A:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UX	W12UX	W13UX	W14UX	W15UX	W16UX	W17UX	W18UX	Chan ids	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	4.93584592356E+03		Apriori delay (usec)		4.93582253606E+03		Resid mbdelay (usec)		-7.86250E-03	+/- 4.6E-06
Sband delay (usec)	4.93584594631E+03		Apriori clock (usec)		-2.1120359E+03		Resid sbdelay (usec)		2.34102E-02	+/- 3.7E-05
Phase delay (usec)	4.93582253527E+03		Apriori clockrate (us/s)		-5.8727285E-07		Resid phdelay (usec)		-7.84800E-07	+/- 1.6E-08
Delay rate (us/s)	-9.80656966236E-01		Apriori rate (us/s)		-9.80656929775E-01		Resid rate (us/s)		-3.64610E-08	+/- 1.5E-10
Total phase (deg)			Apriori accel (us/s/s)		-4.17531900808E-05		Resid phase (deg)		-24.3	+/- 0.5

ph/seg (deg) 9.0 1.1 Search (1024X32) 6.229 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 3.2 2.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 47.8 0.7 Inc. seg. avg. 6.463 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 34.1 1.2 Inc. frq. avg. 7.904 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 A: az 330.6 el 61.8 pa 152.8 b: az 132.0 el 33.1 pa -29.7 u,v (fr/asec) 5595.466 -10148.942 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//Ab..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//Ab.W.5.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

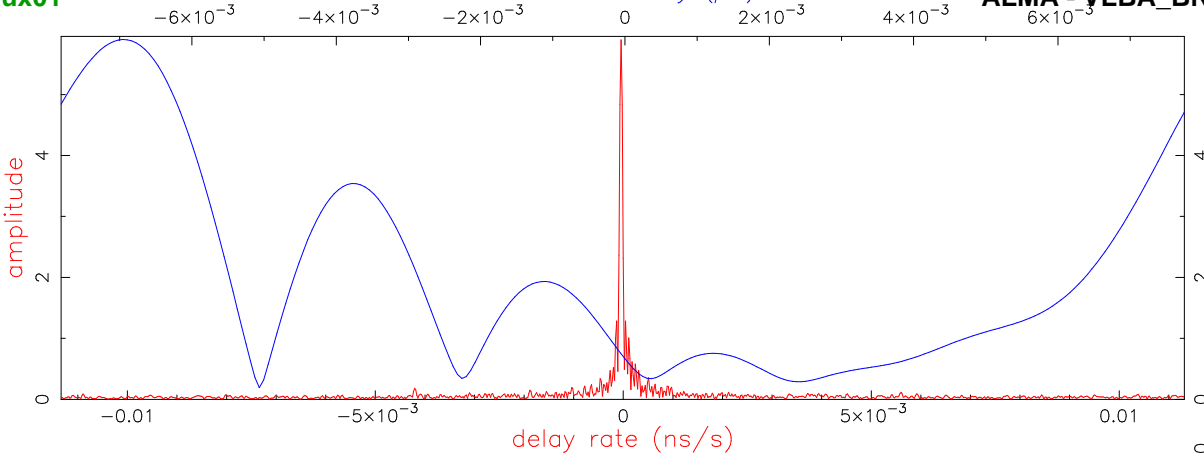
aux01

3C273.3MP2MB, No0707, Ab

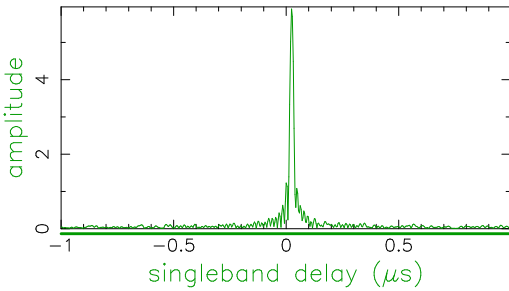
ALMA - VLBA_BR, fgroup W, pol YL

multiband delay (μ s)

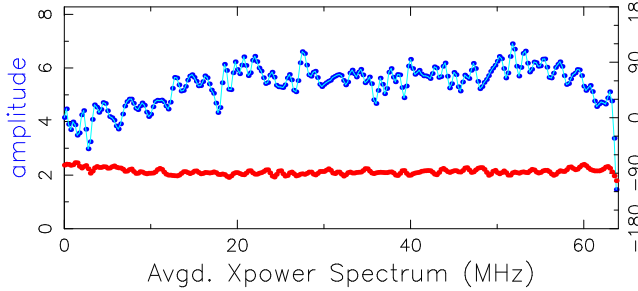
Fringe quality 6



SNR 218.4
Int time 179.965
Amp 5.953
Phase -83.4
PFD 0.0e+00
Delays (us)
SBD 0.024680
MBD -0.006889
Fringe rate (Hz)
-0.003169
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

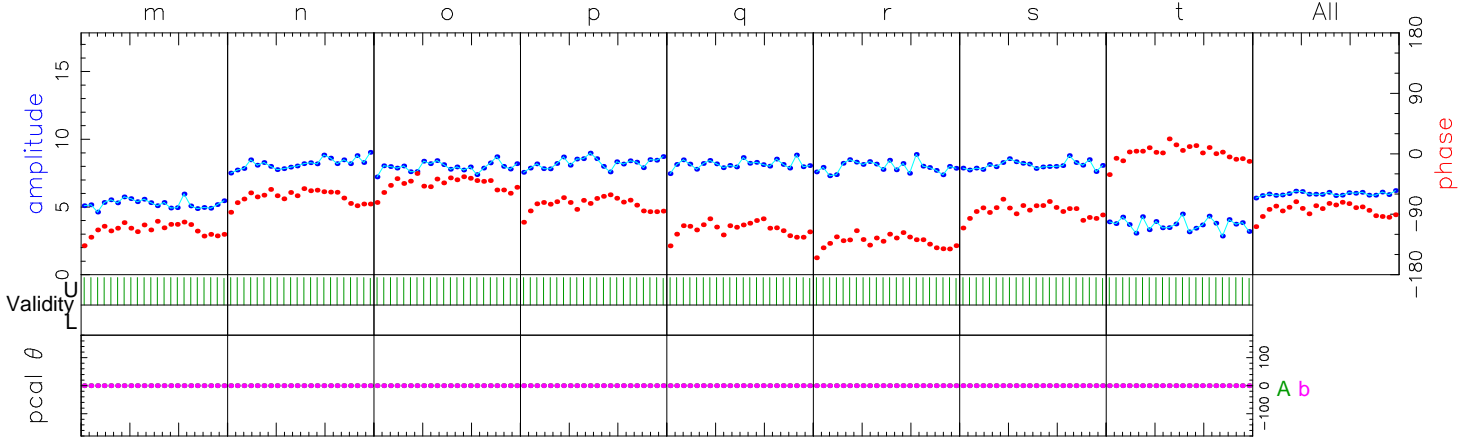


delay rate (ns/s)



Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 040000.00
Stop 040300.22
FRT 040130.00
Corr/FF/build
2024:361:053129
2025:041:175904
2024:113:095956
RA & Dec (J2000)
12h29m06.699742s
+02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-112.6	-64.0	-44.9	-75.4	-111.6	-130.6	-85.1	0.8	Phase	-83.4
	5.2	8.1	7.9	8.1	8.0	7.9	8.0	3.6	Ampl.	7.1
	265.1	263.2	262.9	263.3	263.3	263.3	263.8	266.2	Sbd box	263.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
b	0	0	0	0	0	0	0	0	PC freqs	
A:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UY	W12UY	W13UY	W14UY	W15UY	W16UY	W17UY	W18UY	Chan ids	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	4.93584689746E+03	Apriori delay (usec)	4.93582253606E+03	Resid mbdelay (usec)	-6.88860E-03	+/-	5.0E-06
Sband delay (usec)	4.93584721556E+03	Apriori clock (usec)	-2.1120359E+03	Resid sbdelay (usec)	2.46795E-02	+/-	3.9E-05
Phase delay (usec)	4.93582253337E+03	Apriori clockrate (us/s)	-5.8727285E-07	Resid phdelay (usec)	-2.68961E-06	+/-	1.7E-08
Delay rate (us/s)	-9.80656966562E-01	Apriori rate (us/s)	-9.80656929775E-01	Resid rate (us/s)	-3.67869E-08	+/-	1.6E-10
Total phase (deg)	8.7	Apriori accel (us/s/s)	-4.17531900808E-05	Resid phase (deg)	-83.4	+/-	0.5

ph/seg (deg)	8.9	RMS	1.2	Theor.	5.953 +/- 0.027	PCal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	2.2	Search (1024X32)	5.750	PCal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	46.3	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	33.1	Inc. seg. avg.	5.965	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011	
		Inc. frq. avg.	7.104	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

A: az 330.6 el 61.8 pa 152.8 b: az 132.0 el 33.1 pa -29.7 u,v (fr/asec) 5595.466 -10148.942 simultaneous interpolator

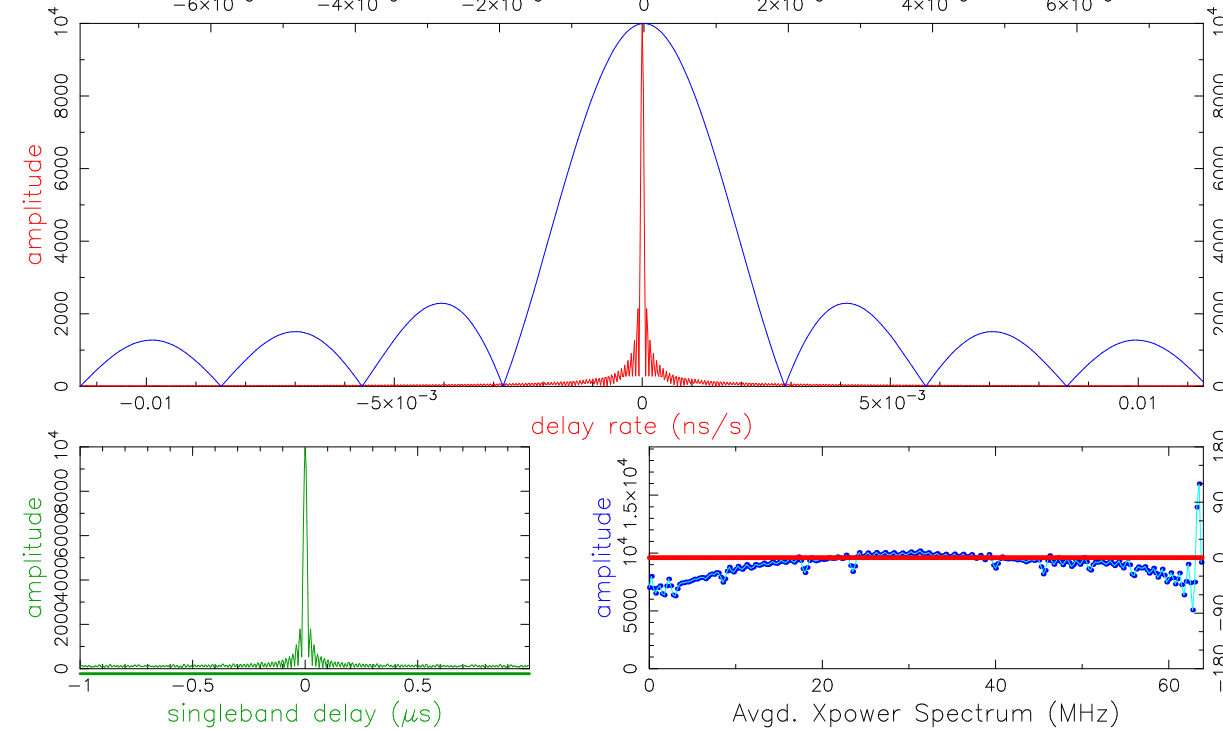
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Mk4/DiFX fourfit 3.25 rev 0

aux01

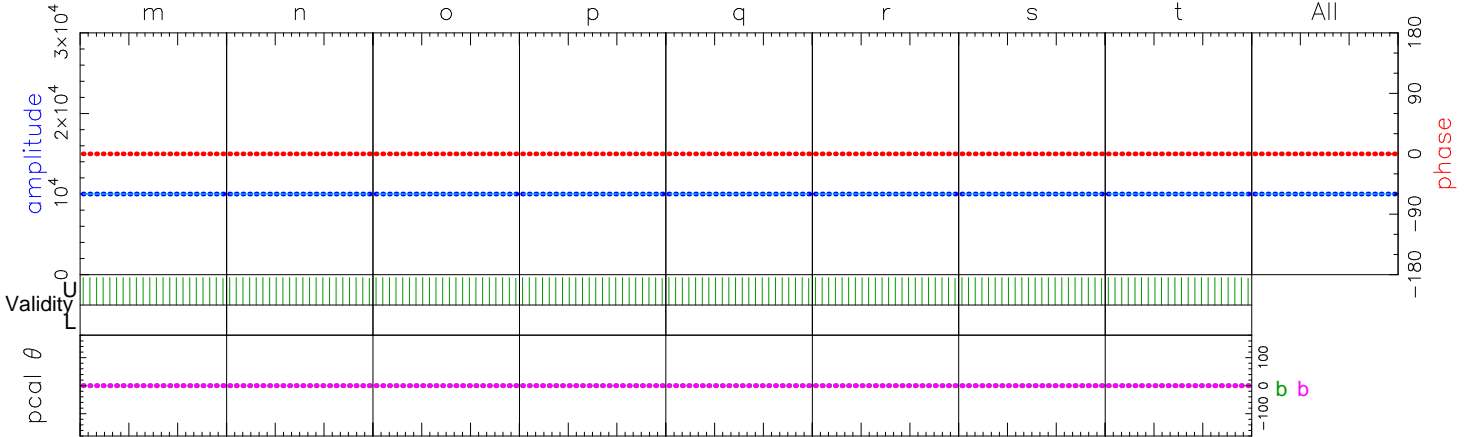
3C273.3MP2MB, No0707, bb

VLBA_BR - VLBA_BR, fgroup W, pol LL



Fringe quality 9
 SNR 366857.3
 Int time 179.970
 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. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175908
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	0	0	0	0	0	0	0	0		
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
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 +/- 3.0E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 2.3E-08
 Phase delay (usec) 0.0000000000E+00 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 0.00000E+00 +/- 1.0E-11
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 9.7E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

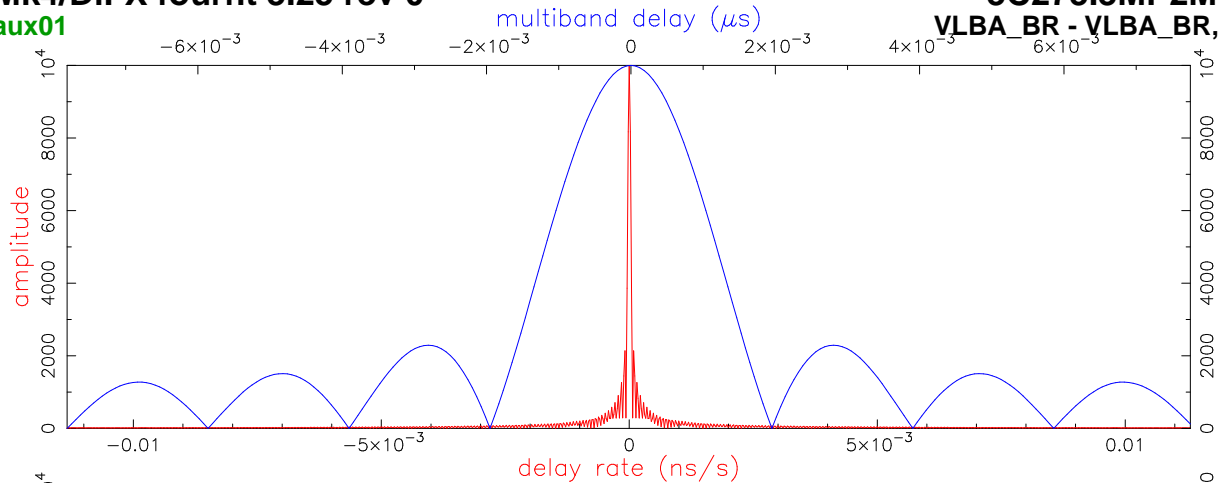
ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10000.000 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb 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
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 b: az 132.0 el 33.1 pa -29.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//bb..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//bb.W.20.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bb

VLBA_BR - VLBA_BR, fgroup W, pol RR



Fringe quality 9

SNR 366857.2

Int time 179.970

Ampl 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. c241b

Exper # 1234

Yr:day 2024:111

Start 040000.00

Stop 040300.22

FRT 040130.00

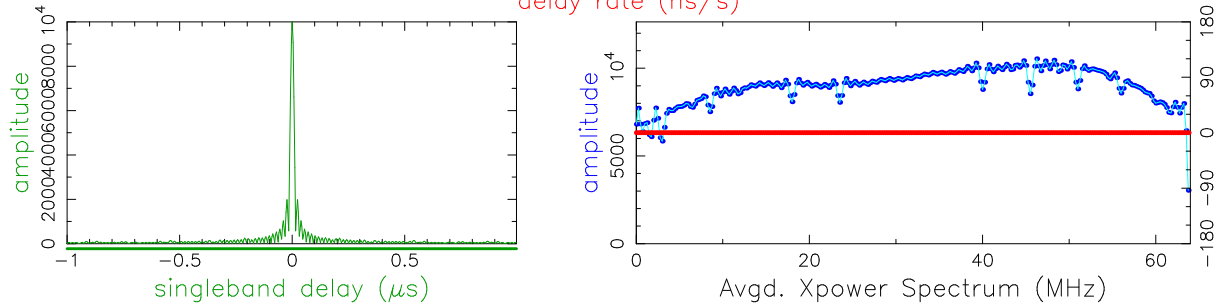
Corr/FF/build

2024:361:053129

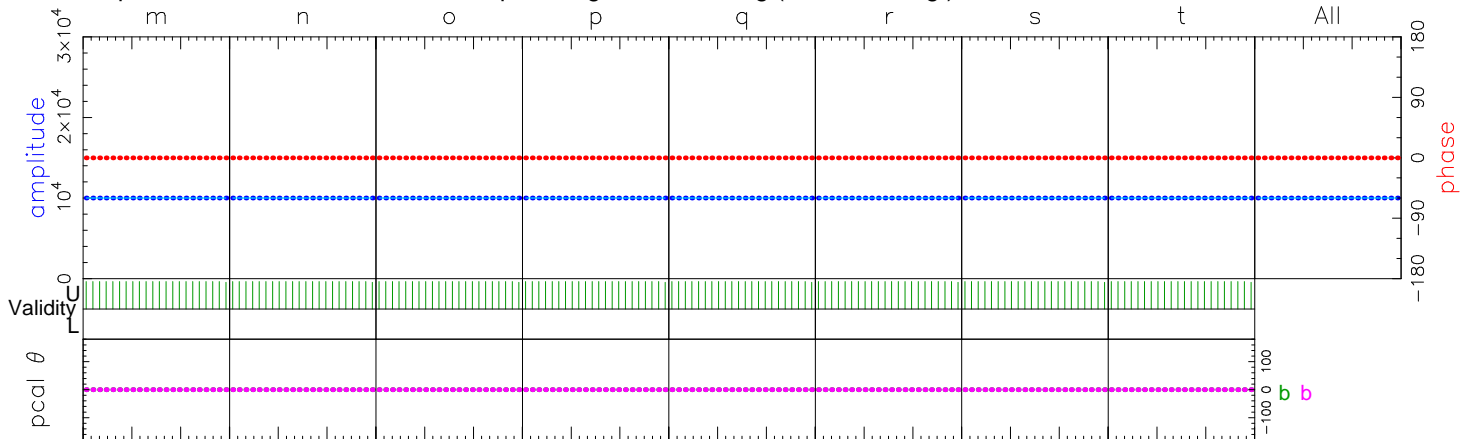
2025:041:175910

2024:113:095956

RA & Dec (J2000) 12h29m06.699742s +02°03'08.598116"



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



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

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

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 10000.000 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011

b: az 132.0 el 33.1 pa -29.7 b: az 132.0 el 33.1 pa -29.7 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

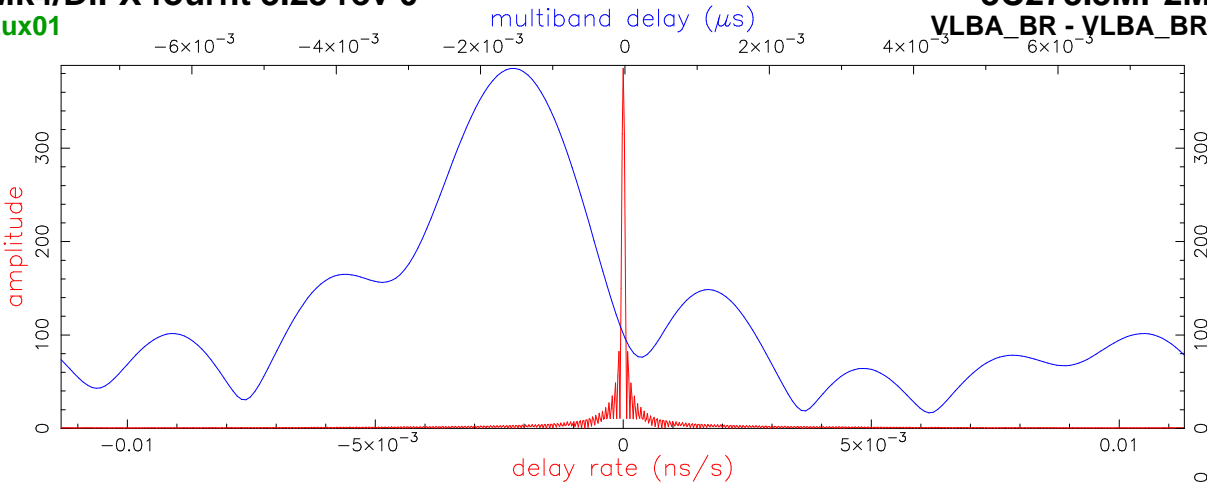
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//bb..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//bb.W.30.3MP2MB simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

aux01

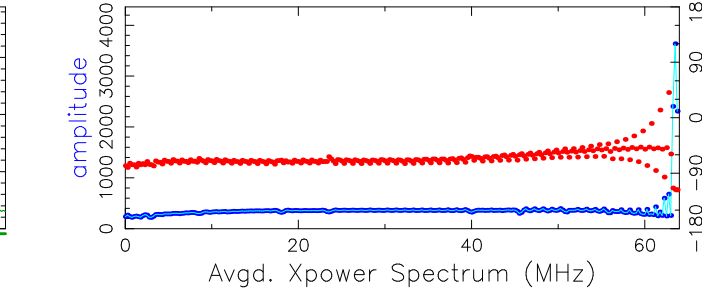
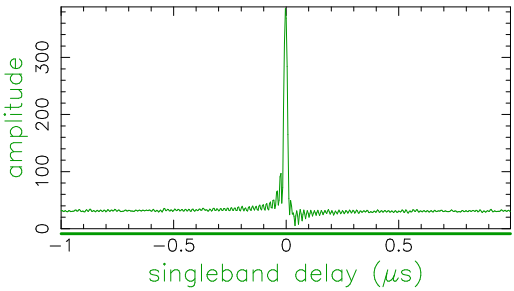
3C273.3MP2MB, No0707, bb

VLBA_BR - VLBA_BR, fgroup W, pol LR



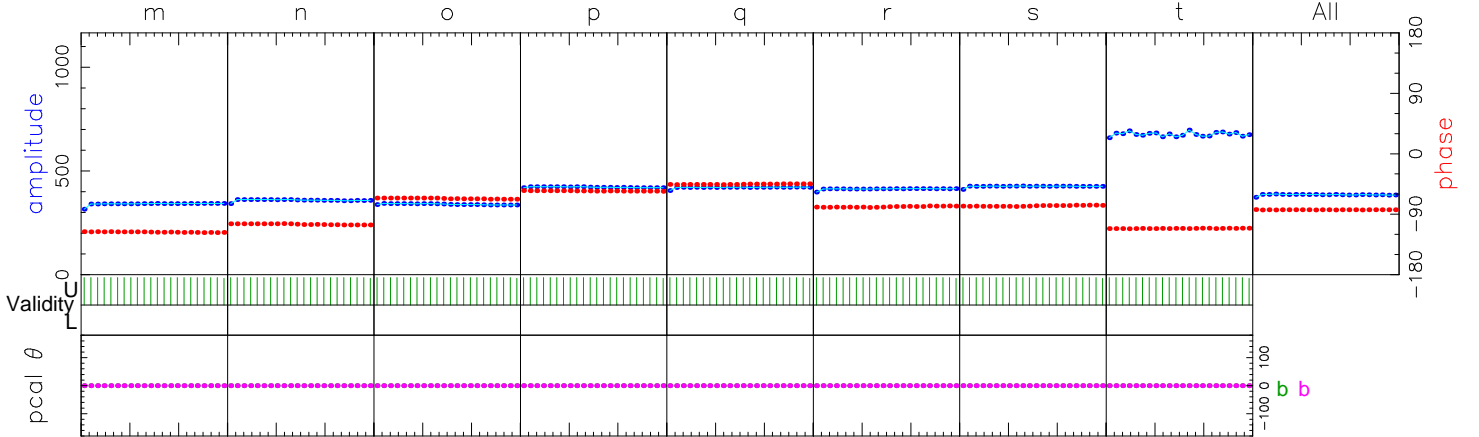
Fringe quality 6

SNR 14259.9
 Int time 179.969
 Amp 388.705
 Phase -83.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.002806
 MBD -0.001538
 Fringe rate (Hz)
 0.000004
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175912
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-116.5	-104.9	-66.6	-55.3	-45.3	-78.8	-77.5	-111.1	Phase	-83.4
	341.5	359.2	339.8	422.0	420.8	413.5	425.9	677.4	Ampl.	425.0
	257.0	256.8	257.0	256.6	256.4	256.3	256.6	255.8	Sbd box	256.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
b	0	0	0	0	0	0	0	0	PC freqs	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	-1.53787500000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-1.53788E-03	+/- 7.6E-08
Sband delay (usec)	-2.80600000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-2.80600E-03	+/- 6.0E-07
Phase delay (usec)	-2.68846729538E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-2.68847E-06	+/- 2.6E-10
Delay rate (us/s)	4.95990333709E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		4.95990E-11	+/- 2.5E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-83.4	+/- 0.0

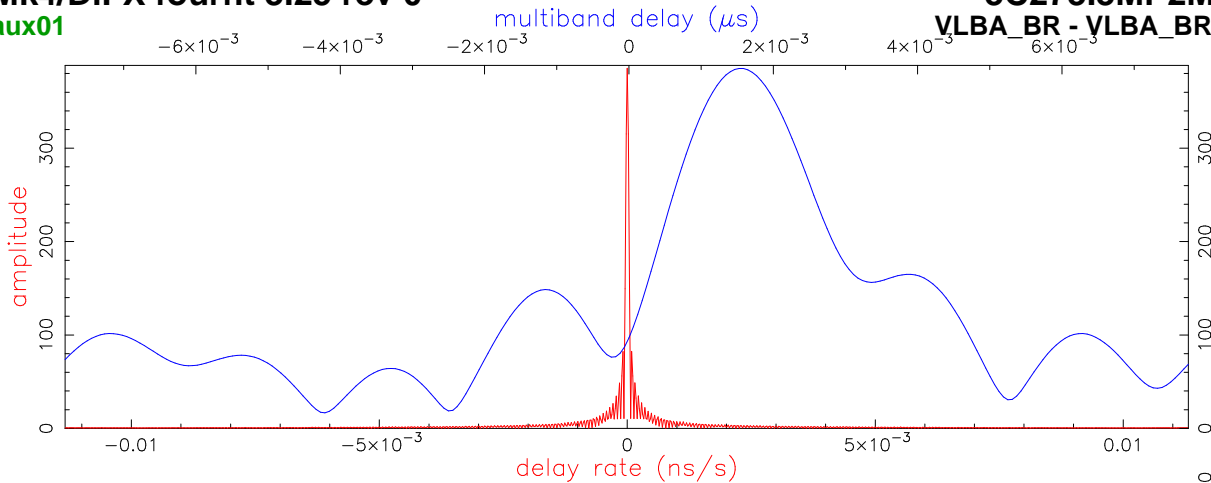
ph/seg (deg) 0.1 0.0 Theor. Amplitude 388.705 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.1 0.0 Search (1024X32) 384.349 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 28.6 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 27.7 0.0 Inc. seg. avg. 385.542 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 b: az 132.0 el 33.1 pa -29.7 b: az 132.0 el 33.1 pa -29.7 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//bb..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//bb.W.40.3MP2MB simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

aux01

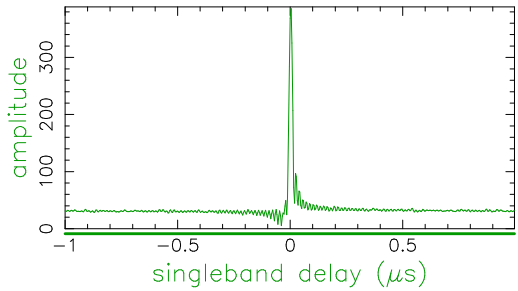
3C273.3MP2MB, No0707, bb

VLBA_BR - VLBA_BR, fgroup W, pol RL

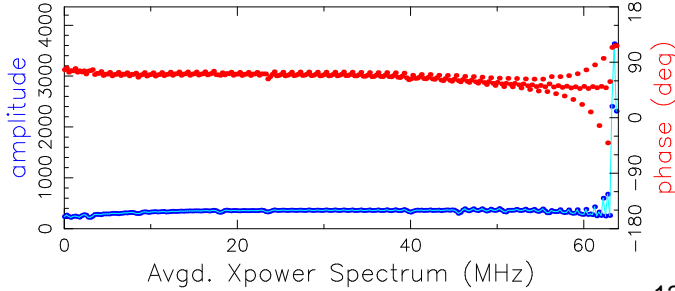


Fringe quality 6

SNR 14259.9
 Int time 179.969
 Amp 388.705
 Phase 83.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.002806
 MBD 0.001538
 Fringe rate (Hz)
 -0.000004
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

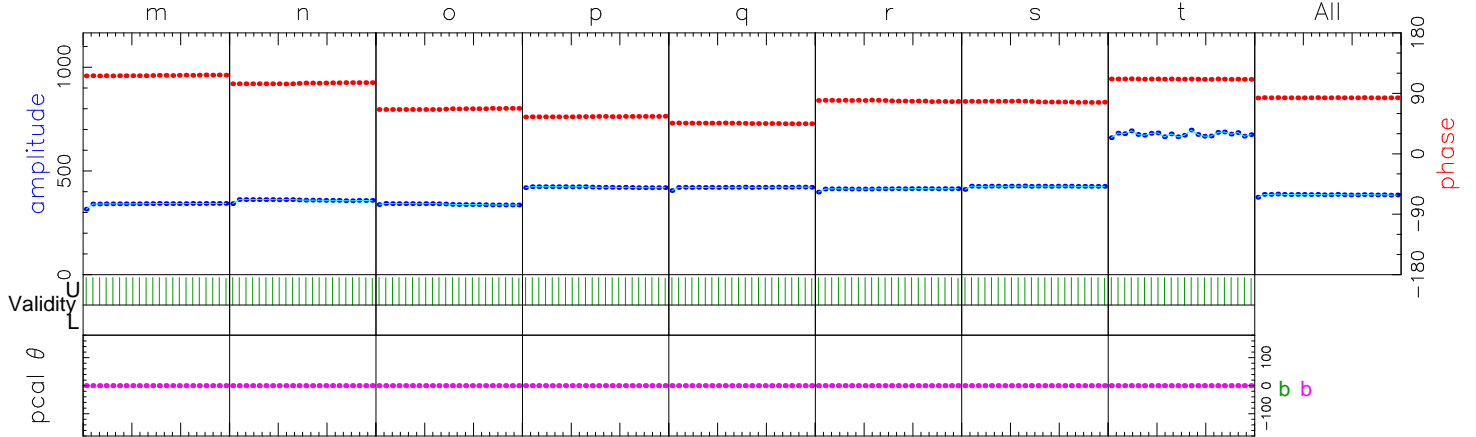


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2025:041:175914
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



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

Group delay (usec) (SBD) 1.53787500000E-03 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) 1.53788E-03 +/- 7.6E-08
 Sband delay (usec) 2.80600000000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 2.80600E-03 +/- 6.0E-07
 Phase delay (usec) 2.68846729534E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 2.68847E-06 +/- 2.6E-10
 Delay rate (us/s) -4.95990333709E-11 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -4.95990E-11 +/- 2.5E-12
 Total phase (deg) 83.4 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 83.4 +/- 0.0

RMS Theor. Amplitude 388.705 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.1 0.0 Search (1024X32) 384.349 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 1.1 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 28.6 0.0 Inc. seg. avg. 385.542 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 27.7 0.0 Inc. frq. avg. 425.015 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 b: az 132.0 el 33.1 pa -29.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//bb..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//bb.W.47.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

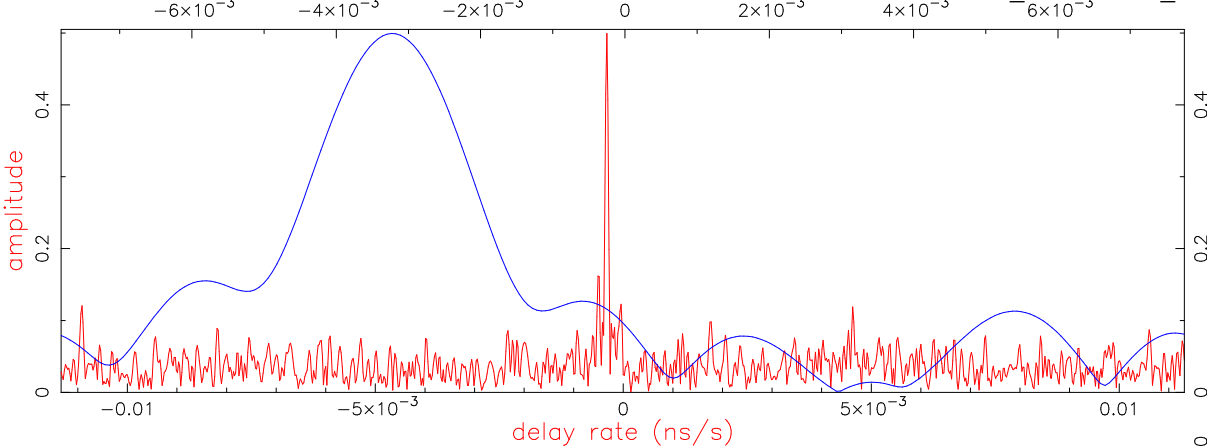
aux01

3C273.3MP2MB, No0707, bf

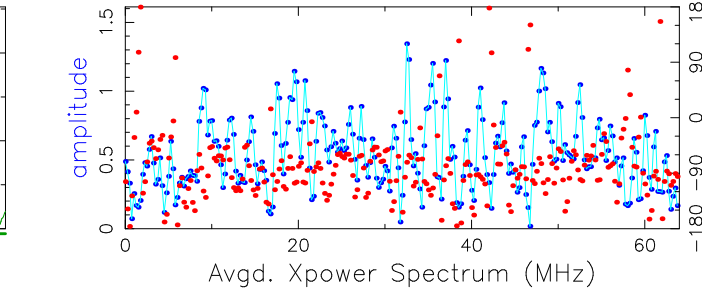
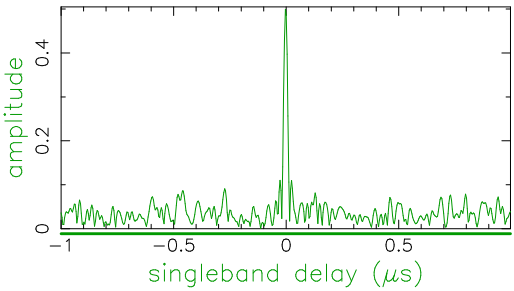
VLBA_BR - VLBA_FD, fgroup W, pol LL

multiband delay (μ s)

Fringe quality 8

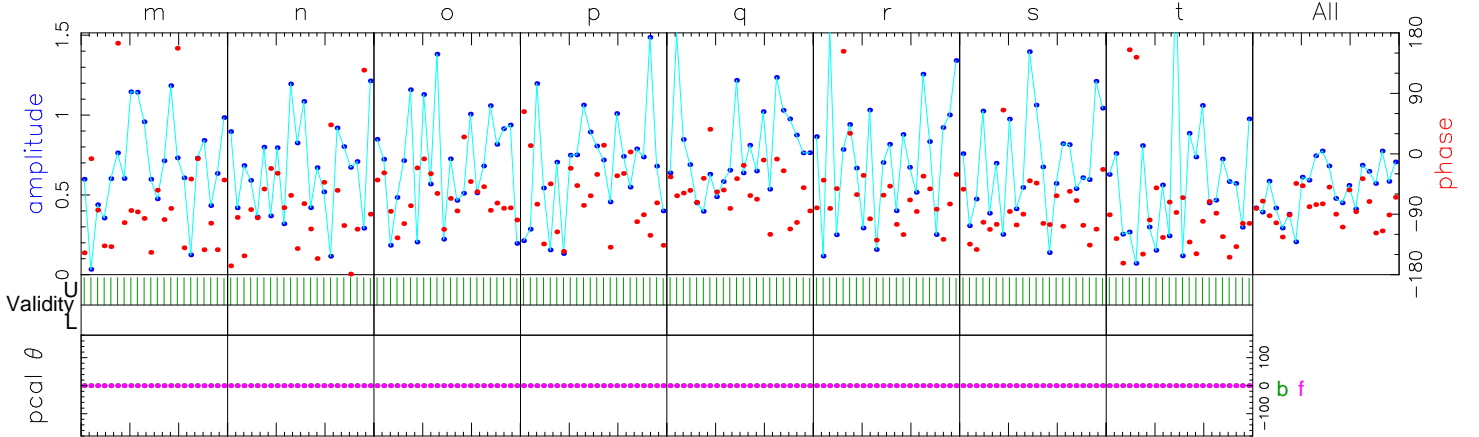


SNR 18.5
Int time 179.964
Amp 0.505
Phase -79.1
PFD 0.0e+00
Delays (us)
SBD -0.002500
MBD -0.003210
Fringe rate (Hz)
-0.028241
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 040000.00
Stop 040300.22
FRT 040130.00
Corr/FF/build
2024:361:053129
2025:041:175909
2024:113:095956
RA & Dec (J2000)
12h29m06.699742s
+02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-106.4	-94.4	-60.9	-68.3	-52.1	-69.7	-82.7	-114.6	Phase	-79.1
	0.5	0.5	0.6	0.5	0.7	0.5	0.6	0.5	Ampl.	0.5
	256.1	257.2	256.6	255.9	255.9	256.2	256.2	255.8	Sbd box	256.4
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
f	0	0	0	0	0	0	0	0	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-5.58026626360E+03	Apriori delay (usec)	-5.58026305383E+03	Resid mbdelay (usec)	-3.20978E-03	+/-	5.9E-05
Sband delay (usec)	-5.58026555358E+03	Apriori clock (usec)	4.5655746E+00	Resid sbdelay (usec)	-2.49975E-03	+/-	4.7E-04
Phase delay (usec)	-5.58026305638E+03	Apriori clockrate (us/s)	5.2622099E-07	Resid phdelay (usec)	-2.54997E-06	+/-	2.0E-07
Delay rate (us/s)	1.31167185042E-01	Apriori rate (us/s)	1.31167512897E-01	Resid rate (us/s)	-3.27855E-07	+/-	1.9E-09
Total phase (deg)	-243.5	Apriori accel (us/s/s)	3.05839080410E-05	Resid phase (deg)	-79.1	+/-	6.2

ph/seg (deg)	24.1	Theor.	14.5	Amplitude	0.505 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	31.5	Search (1024X32)	0.485	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	24.2	Inc. seg. avg.	0.527	Inc. frq. avg.	0.528	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	14.2	Inc. frq. avg.	0.528			Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
						Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 132.0 el 33.1 pa -29.7 f: az 138.7 el 54.1 pa -34.5 u,v (fr/asec) -735.413 2162.128 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bf..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bf.W.22.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

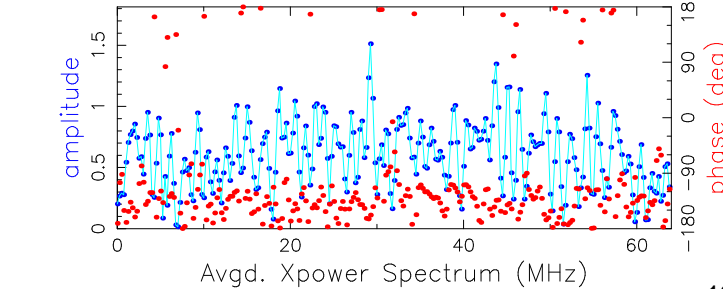
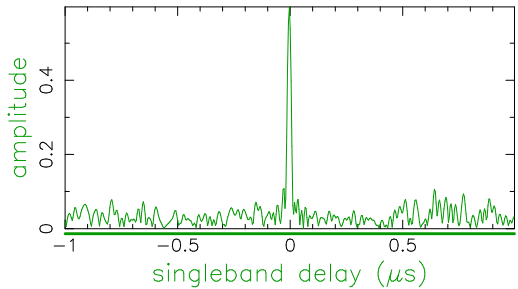
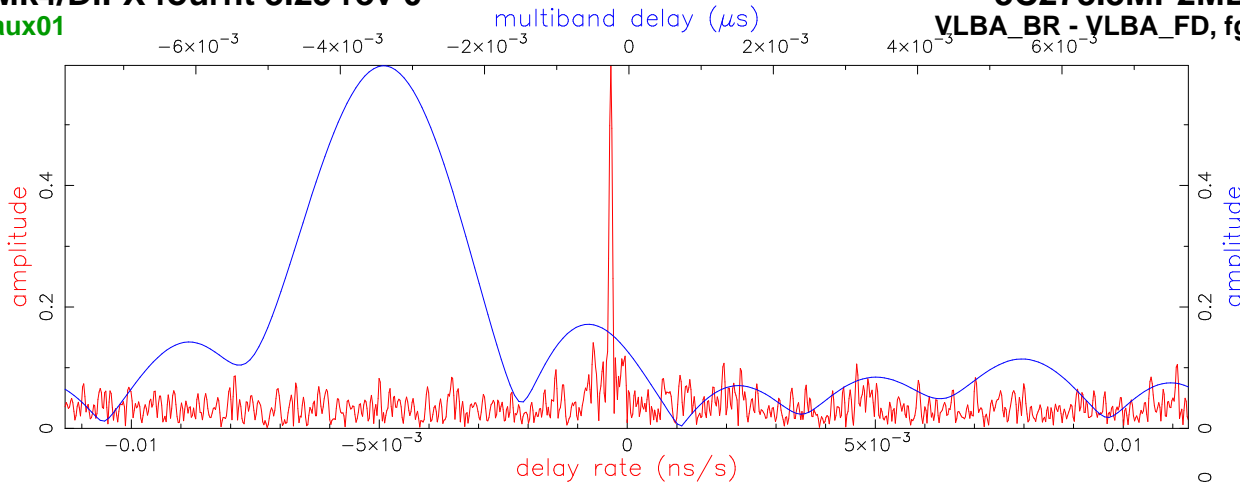
aux01

3C273.3MP2MB, No0707, bf

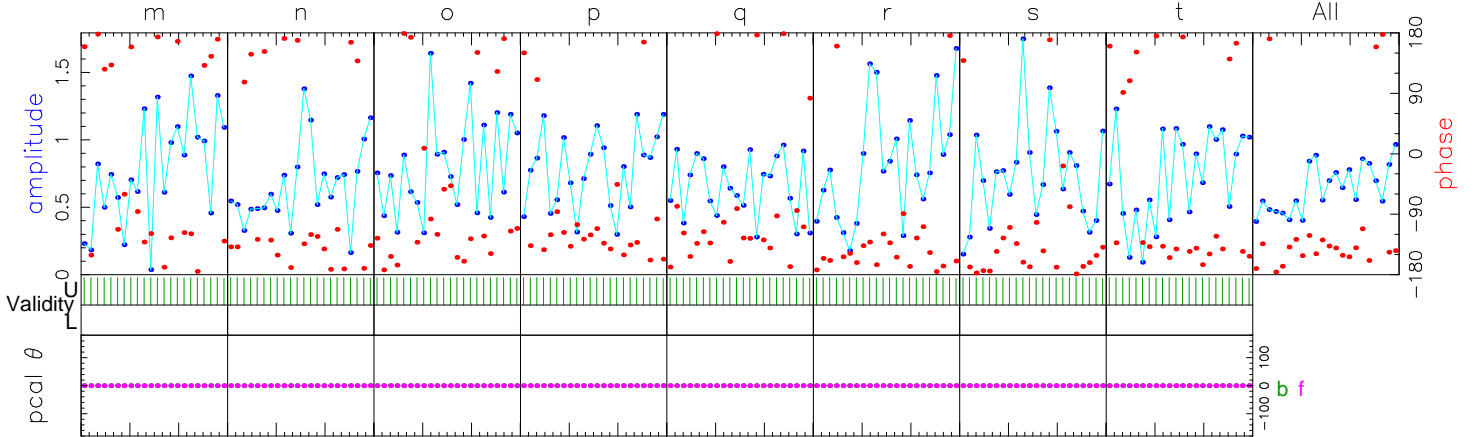
VLBA_BR - VLBA_FD, fgroup W, pol RR

Fringe quality 9

SNR 21.9
 Int time 179.964
 Amp 0.598
 Phase -148.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.004248
 MBD -0.003402
 Fringe rate (Hz)
 -0.028547
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175911
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-164.6	-156.2	-135.3	-136.7	-129.6	-153.3	-152.9	-157.2	Phase	-148.6
	0.6	0.6	0.6	0.6	0.5	0.8	0.6	0.6	Ampl.	0.6
	255.4	256.5	256.2	256.0	255.6	255.8	255.7	256.3	Sbd box	255.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
f	0	0	0	0	0	0	0	0	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	-5.58026645560E+03		Apriori delay (usec)		-5.58026305383E+03		Resid mbdelay (usec)		-3.40178E-03	+/- 4.9E-05
Sband delay (usec)	-5.58026730208E+03		Apriori clock (usec)		4.5655746E+00		Resid sbdelay (usec)		-4.24825E-03	+/- 3.9E-04
Phase delay (usec)	-5.58026305862E+03		Apriori clockrate (us/s)		5.2622099E-07		Resid phdelay (usec)		-4.79172E-06	+/- 1.7E-07
Delay rate (us/s)	1.31167181491E-01		Apriori rate (us/s)		1.31167512897E-01		Resid rate (us/s)		-3.31407E-07	+/- 1.6E-09
Total phase (deg)			Apriori accel (us/s/s)		3.05839080410E-05		Resid phase (deg)		-148.6	+/- 5.2

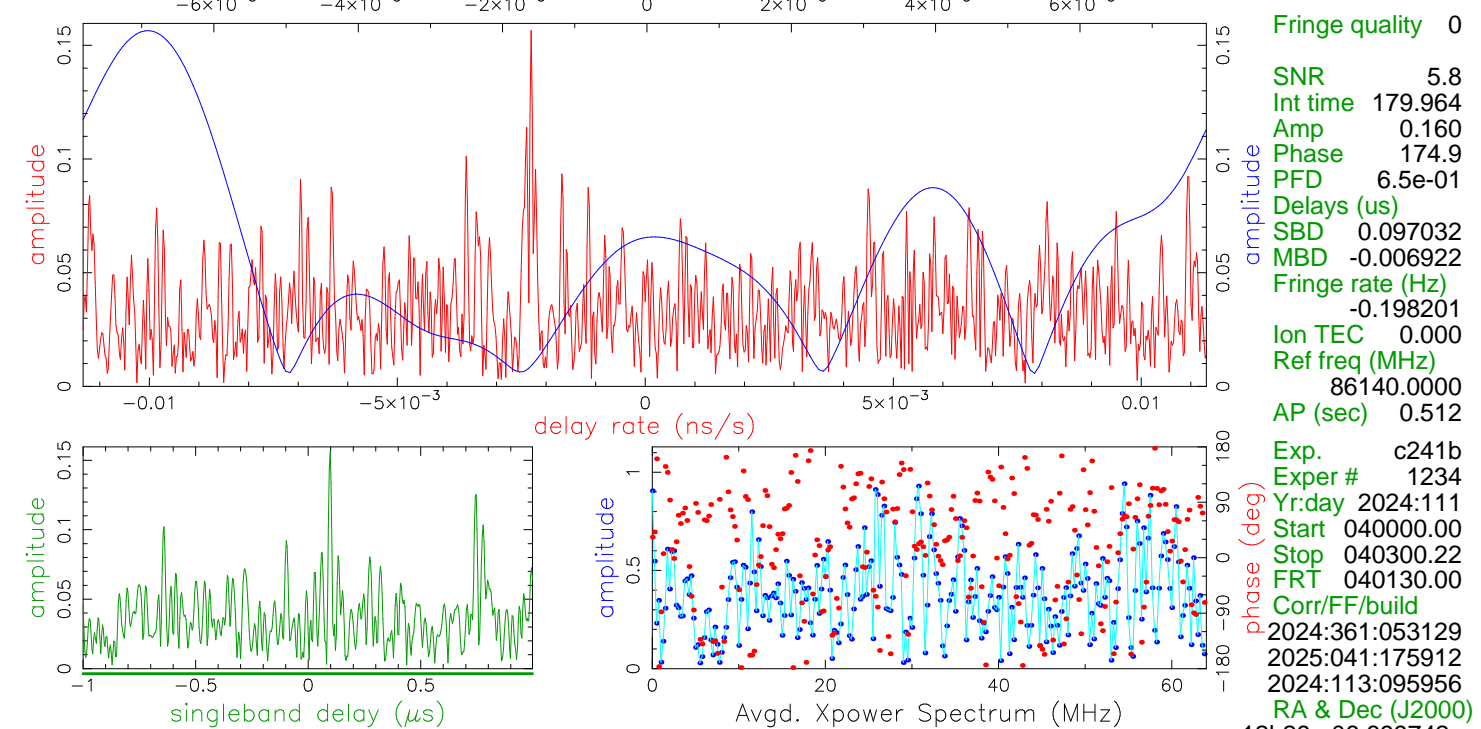
ph/seg (deg) 22.2 22.3 Theor. Amplitude 0.598 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 29.9 21.4 Search (1024X32) 0.594 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 13.6 7.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 11.8 12.9 Inc. seg. avg. 0.628 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.605 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 b: az 132.0 el 33.1 pa -29.7 f: az 138.7 el 54.1 pa -34.5 u,v (fr/asec) -735.413 2162.128 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bf..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bf.W.33.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

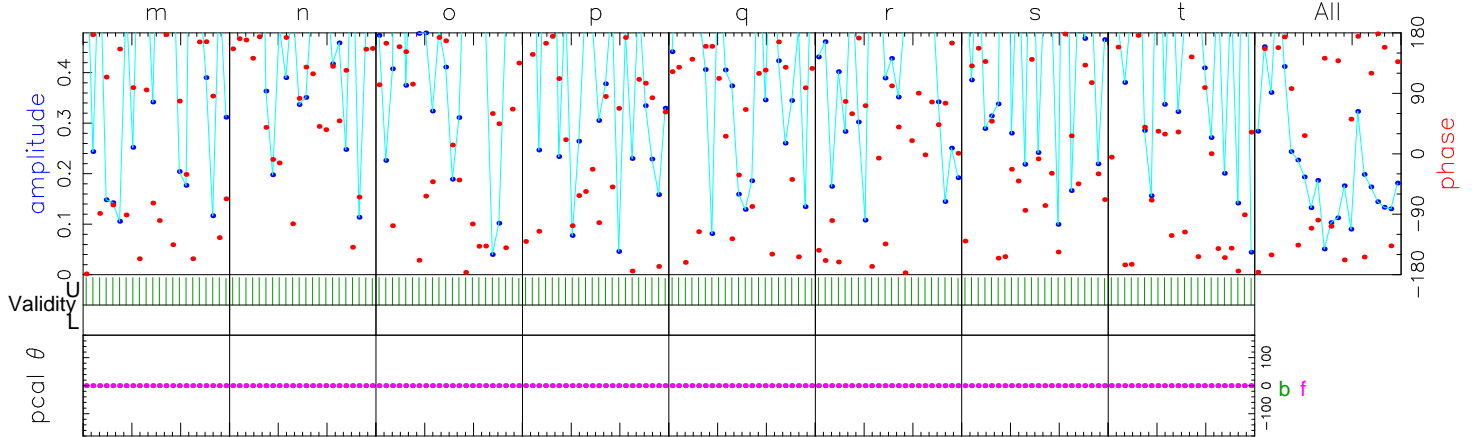
aux01

3C273.3MP2MB, No0707, bf

VLBA_BR - VLBA_FD, fgroup W, pol LR



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-148.3	143.1	-178.4	167.3	154.9	97.8	-153.2	-149.7	Phase	174.9
	0.3	0.3	0.2	0.1	0.3	0.1	0.1	0.1	Ampl.	0.2
	354.9	340.1	100.6	188.7	281.9	167.2	67.0	490.1	Sbd box	281.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
f	0	0	0	0	0	0	0	0	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-5.58016060068E+03	Apriori delay (usec)	-5.58026305383E+03	Resid mbdelay (usec)	-6.92185E-03	+/-	1.9E-04
Sband delay (usec)	-5.58016602208E+03	Apriori clock (usec)	4.5655746E+00	Resid sbdelay (usec)	9.70317E-02	+/-	1.5E-03
Phase delay (usec)	-5.58026304819E+03	Apriori clockrate (us/s)	5.2622099E-07	Resid phdelay (usec)	5.63861E-06	+/-	6.4E-07
Delay rate (us/s)	1.31165211982E-01	Apriori rate (us/s)	1.31167512897E-01	Resid rate (us/s)	-2.30091E-06	+/-	6.2E-09
Total phase (deg)	10.4	Apriori accel (us/s/s)	3.05839080410E-05	Resid phase (deg)	174.9	+/-	19.9

ph/seg (deg)	59.4	RMS	46.7	Theor.	59.4	Amplitude	0.160 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	94.3		81.5		94.3	Search (1024X32)	0.154	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.008	0.008
ph/frq (deg)	43.0		28.1		43.0	Inc. seg. avg.	0.171	Bits/sample:	2x2	SampCntNorm: enabled		dr window (ns/s)	-0.011	0.011
amp/frq (%)	45.7		49.1		45.7	Inc. frq. avg.	0.168	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 132.0 el 33.1 pa -29.7 f: az 138.7 el 54.1 pa -34.5 u,v (fr/asec) -735.413 2162.128 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bf..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bf.W.42.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

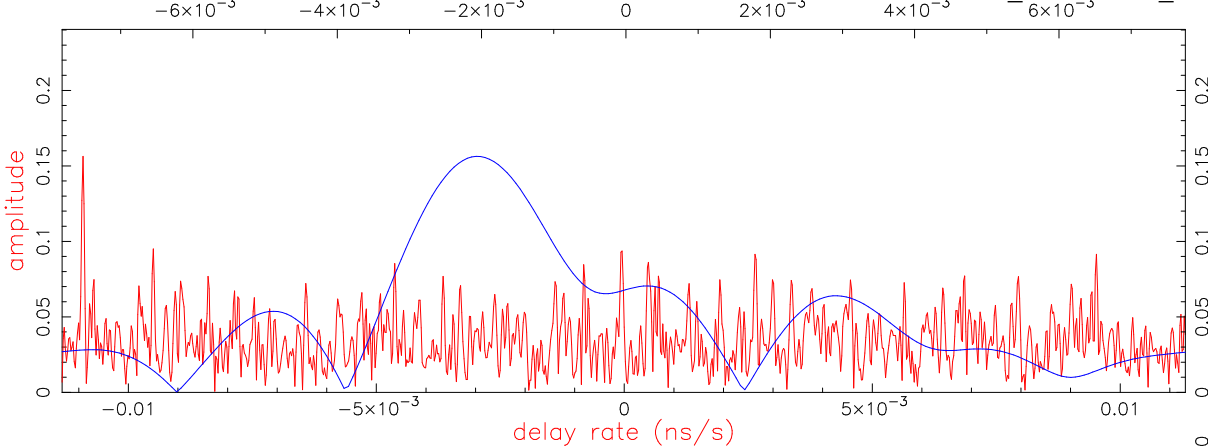
aux01

3C273.3MP2MB, No0707, bf

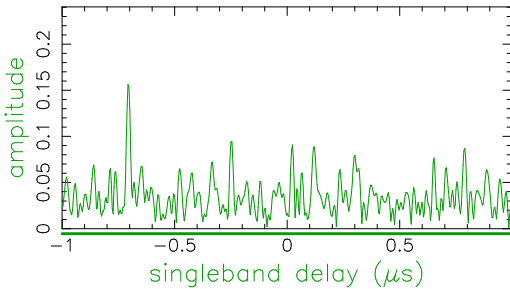
VLBA_BR - VLBA_FD, fgroup W, pol RL

multiband delay (μ s)

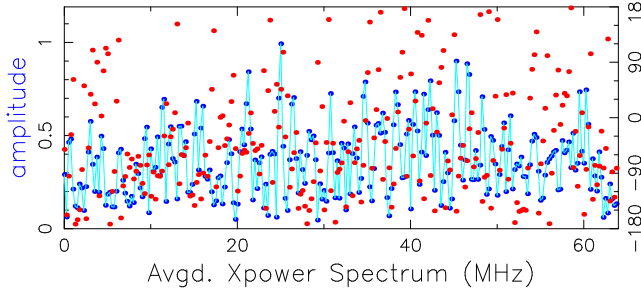
Fringe quality 0



SNR 5.8
 Int time 179.964
 Amp 0.240
 Phase 106.2
 PFD 5.4e-01
 Delays (us)
 SBD -0.705478
 MBD -0.002053
 Fringe rate (Hz)
 -0.942257
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

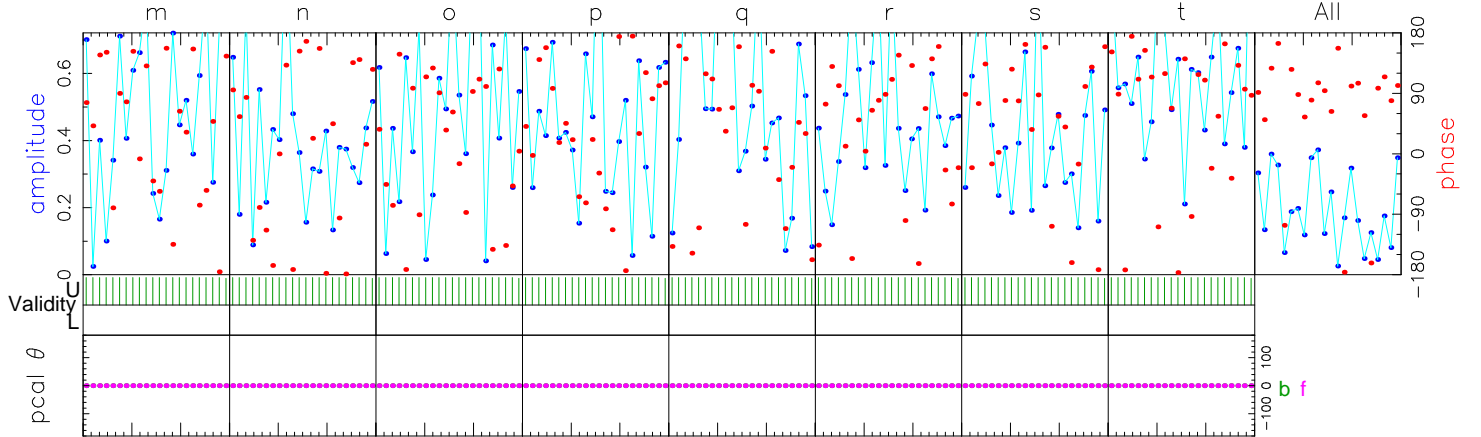


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175914
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	121.9	137.1	92.3	52.8	97.1	104.7	97.1	124.5	Phase	106.2
	0.2	0.2	0.1	0.2	0.3	0.2	0.3	0.4	Ampl.	0.2
	290.1	423.7	36.5	322.6	139.5	499.9	320.1	75.6	Sbd box	76.4
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
f	0	0	0	0	0	0	0	0	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	-5.58096823210E+03		Apriori delay (usec)		-5.58026305383E+03		Resid mbdelay (usec)		-2.05328E-03	+/- 1.9E-04
Sband delay (usec)	-5.58096853158E+03		Apriori clock (usec)		4.5655746E+00		Resid sbdelay (usec)		-7.05478E-01	+/- 1.5E-03
Phase delay (usec)	-5.58026305040E+03		Apriori clockrate (us/s)		5.2622099E-07		Resid phdelay (usec)		3.42571E-06	+/- 6.4E-07
Delay rate (us/s)	1.31156574223E-01		Apriori rate (us/s)		1.31167512897E-01		Resid rate (us/s)		-1.09387E-05	+/- 6.1E-09
Total phase (deg)			Apriori accel (us/s/s)		3.05839080410E-05		Resid phase (deg)		106.2	+/- 19.7

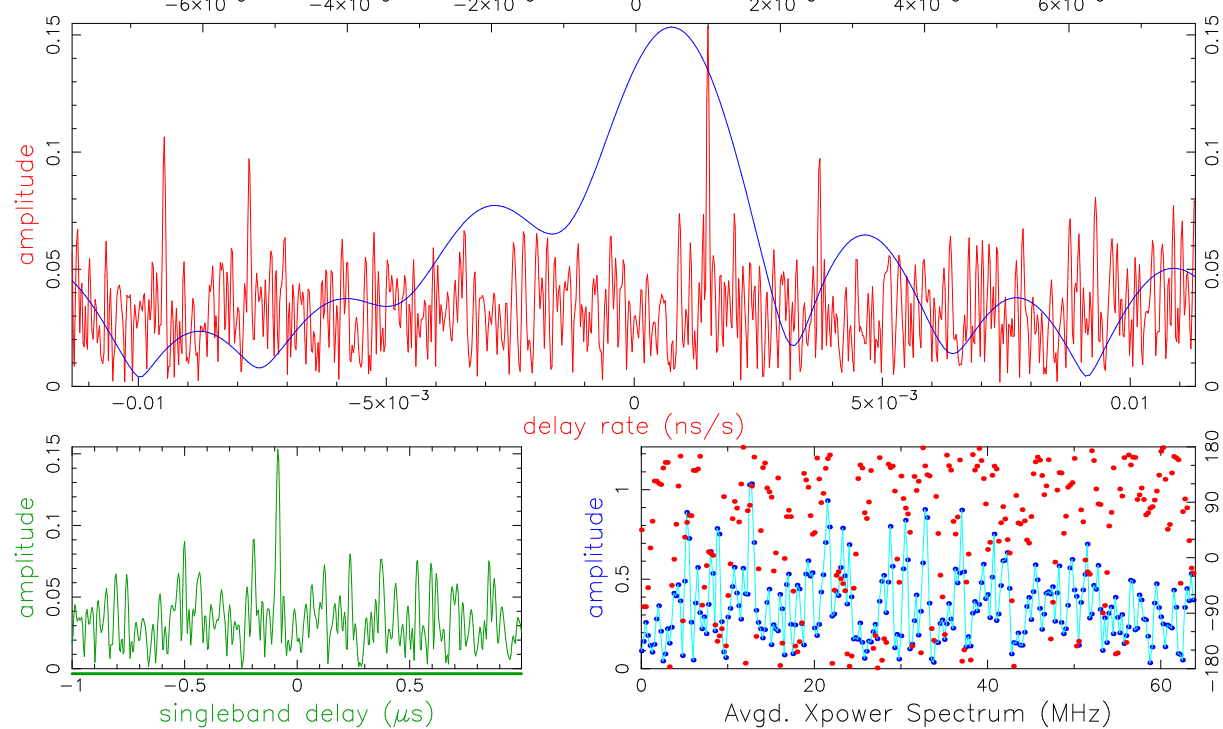
ph/seg (deg) 50.1 46.3 Search (1024X32) 0.154 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.4 80.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 28.1 27.9 Inc. seg. avg. 0.223 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.7 48.7 Inc. frq. avg. 0.230 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 b: az 132.0 el 33.1 pa -29.7 f: az 138.7 el 54.1 pa -34.5 u,v (fr/asec) -735.413 2162.128 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bf..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bf.W.49.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

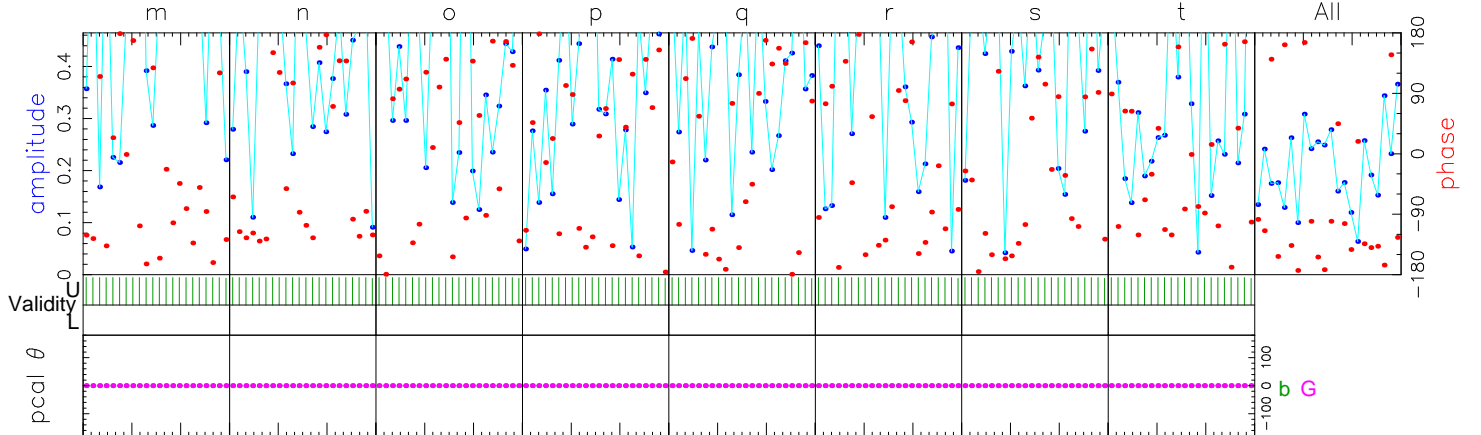
3C273.3MP2MB, No0707, bG

VLBA_BR - GBT_COLD, fgroup W, pol LL



Fringe quality 0
 SNR 5.6
 Int time 179.964
 Amp 0.155
 Phase -146.9
 PFD 8.7e-01
 Delays (us)
 SBD -0.085169
 MBD 0.000515
 Fringe rate (Hz) 0.128010
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175907
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-124.3	-136.0	-175.9	176.1	177.6	-143.4	-155.1	-111.7	Phase	-146.9
	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.2	Ampl.	0.2
	234.9	115.0	353.8	41.8	356.6	387.9	374.7	128.4	Sbd box	235.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
b:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD) -5.38676090411E+03 Apriori delay (usec) -5.38668329399E+03 Resid mbdelay (usec) 5.14889E-04 +/- 1.9E-04
 Sband delay (usec) -5.38676846274E+03 Apriori clock (usec) 1.9247814E+01 Resid sbdelay (usec) -8.51687E-02 +/- 1.5E-03
 Phase delay (usec) -5.38668329873E+03 Apriori clockrate (us/s) 5.0605787E-07 Resid phdelay (usec) -4.73813E-06 +/- 6.5E-07
 Delay rate (us/s) 6.76335909749E-01 Apriori rate (us/s) 6.76334423674E-01 Resid rate (us/s) 1.48607E-06 +/- 6.3E-09
 Total phase (deg) -127.0 Apriori accel (us/s/s) 2.92105772647E-05 Resid phase (deg) -146.9 +/- 20.3

ph/seg (deg) 61.3 47.6 Amplitude 0.155 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 62.0 83.1 Search (1024X32) 0.151 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 30.0 28.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 36.3 50.1 Inc. seg. avg. 0.157 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.151 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 b: az 132.0 el 33.1 pa -29.7 G: az 182.2 el 53.5 pa 2.1 u,v (fr/asec) -3860.338 1169.008 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//bG..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//bG.W.16.3MP2MB

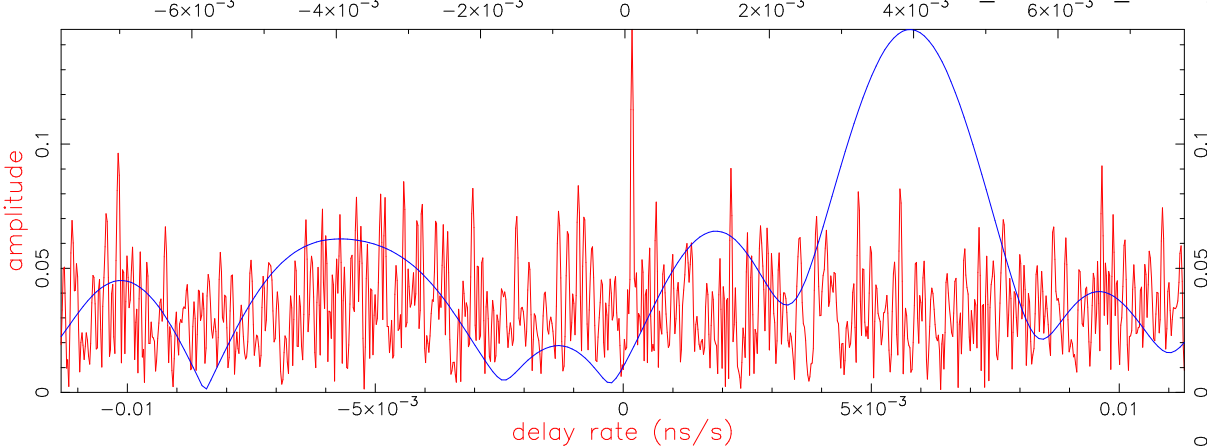
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bG

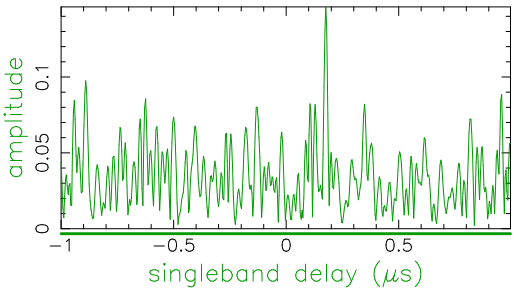
VLBA_BR - GBT_COLD, fgroup W, pol RR

multiband delay (μ s)

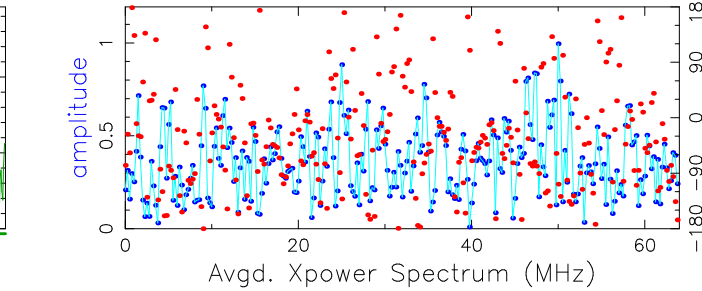


Fringe quality 0

SNR 5.4
 Int time 179.964
 Amp 0.146
 Phase 123.9
 PFD 1.0e+00
 Delays (us)
 SBD 0.175912
 MBD 0.003953
 Fringe rate (Hz)
 0.015113
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

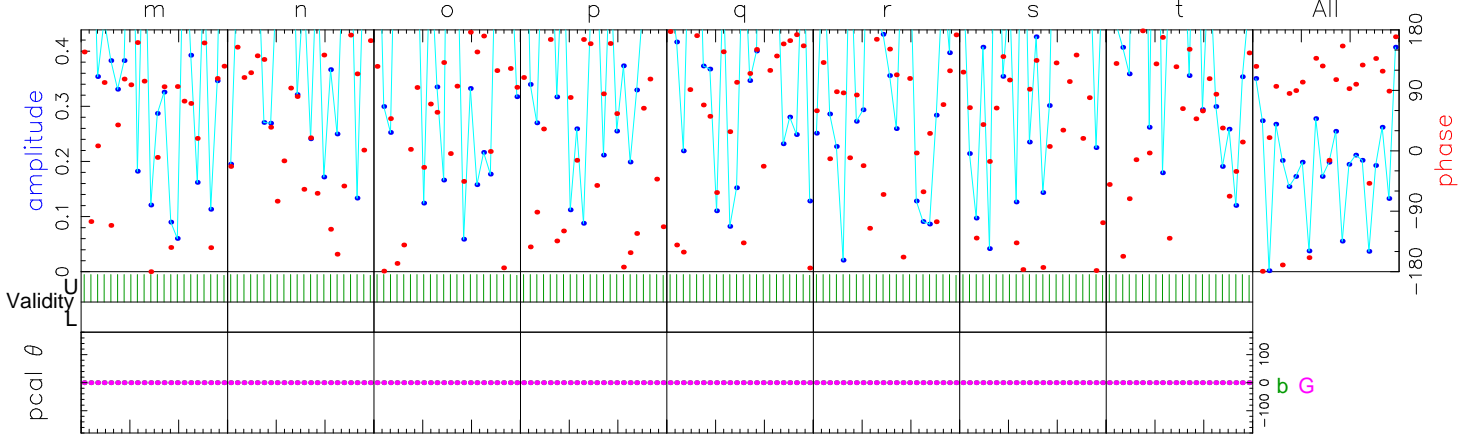


singleband delay (μ s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175909
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	112.4	118.8	113.9	169.0	149.2	143.6	105.5	109.3	Phase	123.9
	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.1	Ampl.	0.1
	464.9	362.0	335.0	332.0	251.3	8.2	303.5	83.3	Sbd box	302.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
b:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-5.38650746560E+03	Apriori delay (usec)	-5.38668329399E+03	Resid mbdelay (usec)	3.95340E-03	+/-	2.0E-04
Sband delay (usec)	-5.38650738174E+03	Apriori clock (usec)	1.9247814E+01	Resid sbdelay (usec)	1.75912E-01	+/-	1.6E-03
Phase delay (usec)	-5.38668329000E+03	Apriori clockrate (us/s)	5.0605787E-07	Resid phdelay (usec)	3.99558E-06	+/-	6.9E-07
Delay rate (us/s)	6.76334599124E-01	Apriori rate (us/s)	6.76334423674E-01	Resid rate (us/s)	1.75450E-07	+/-	6.6E-09
Total phase (deg)	-216.2	Apriori accel (us/s/s)	2.92105772647E-05	Resid phase (deg)	123.9	+/-	21.4

ph/seg (deg)	61.7	Theor.	50.1	Amplitude	0.146 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	73.9	Search (1024X32)	0.146	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	25.4	Inc. seg. avg.	0.140	Inc. frq. avg.	0.137	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	44.6	Inc. frq. avg.	0.137			Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 132.0 el 33.1 pa -29.7 G: az 182.2 el 53.5 pa 2.1 u,v (fr/asec) -3860.338 1169.008 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//bG..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//bG.W.26.3MP2MB

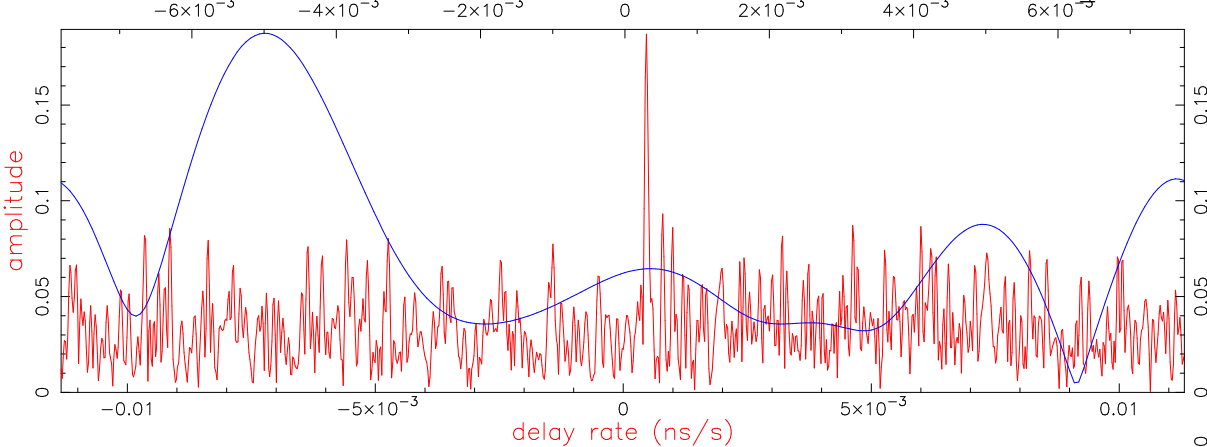
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bg

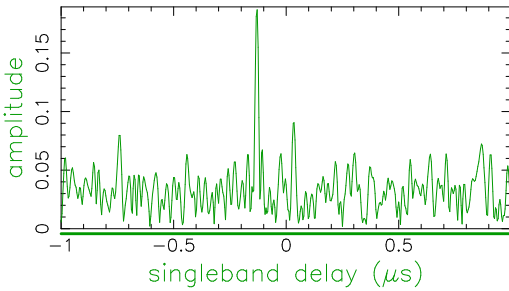
VLBA_BR - GLT, fgroup W, pol LL

multiband delay (μ s)

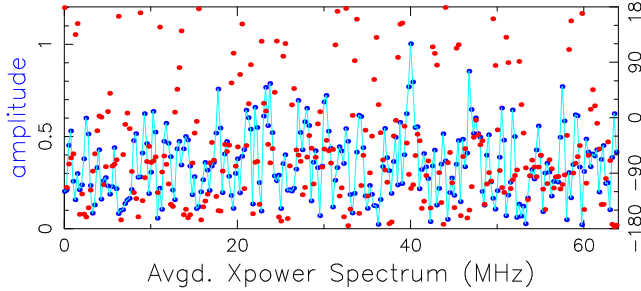


Fringe quality 0

SNR 6.9
 Int time 179.968
 Amp 0.189
 Phase -95.9
 PFD 5.6e-04
 Delays (us)
 SBD -0.130255
 MBD -0.005074
 Fringe rate (Hz)
 0.040662
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

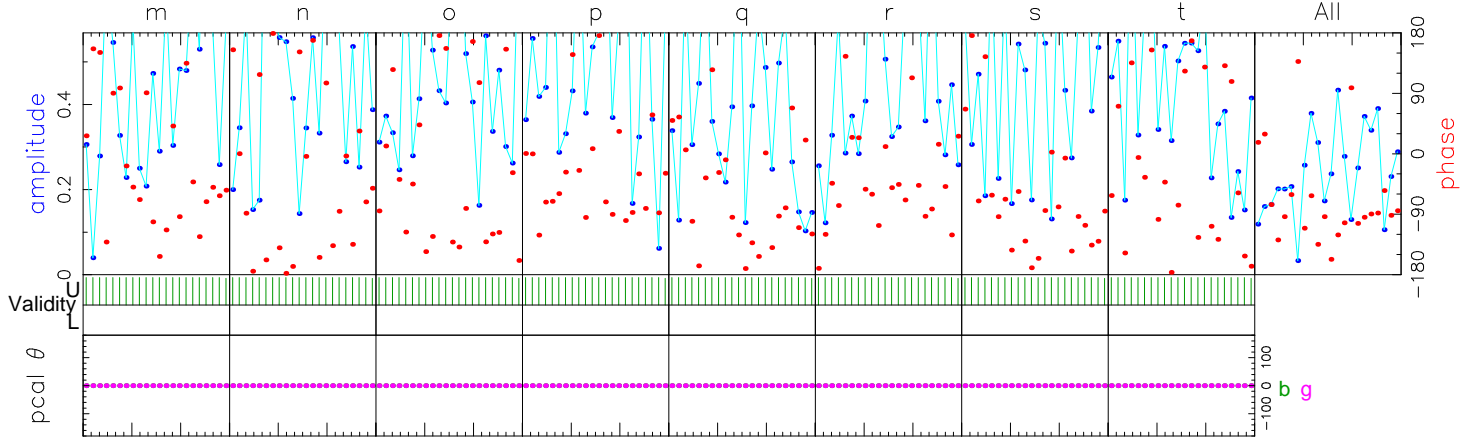


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175910
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-78.1	-144.7	-134.8	-56.8	-82.4	-59.1	-95.3	-170.8	Phase	-95.9
	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.1	Ampl.	0.2
	232.6	243.9	224.5	223.7	498.5	223.8	223.6	356.9	Sbd box	223.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
b:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
g	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD)	6.17863650249E+03	Apriori delay (usec)	6.17876657607E+03	Resid mbdelay (usec)	-5.07358E-03	+/-	1.6E-04
Sband delay (usec)	6.17863632107E+03	Apriori clock (usec)	4.2850819E+00	Resid sbdelay (usec)	-1.30255E-01	+/-	1.2E-03
Phase delay (usec)	6.17876657298E+03	Apriori clockrate (us/s)	-2.0788102E-07	Resid phdelay (usec)	-3.09239E-06	+/-	5.3E-07
Delay rate (us/s)	7.21121197974E-01	Apriori rate (us/s)	7.21120725930E-01	Resid rate (us/s)	4.72044E-07	+/-	5.1E-09
Total phase (deg)	214.7	Apriori accel (us/s/s)	-3.36951862629E-05	Resid phase (deg)	-95.9	+/-	16.5

ph/seg (deg) 61.8 38.7 Amplitude 0.189 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 59.5 67.5 Search (1024X32) 0.184 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 46.3 23.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 42.3 40.7 Inc. seg. avg. 0.195 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.214 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 b: az 132.0 el 33.1 pa -29.7 g: az 192.9 el 15.1 pa 3.0 u,v (fr/asec) -4150.018 -2111.349 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//bg..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//bg.W.32.3MP2MB

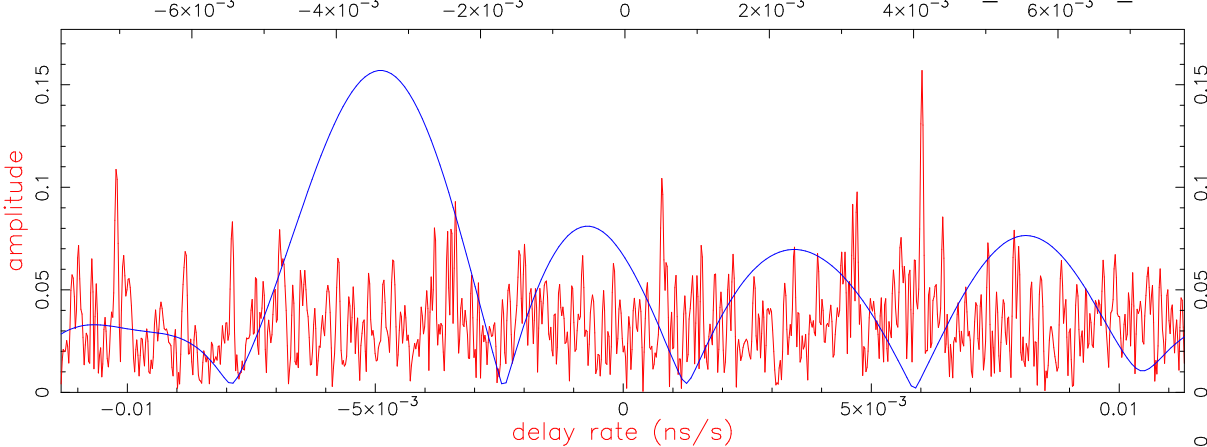
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bG

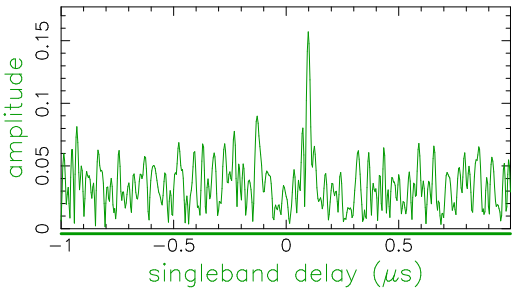
VLBA_BR - GBT_COLD, fgroup W, pol LR

multiband delay (μ s)

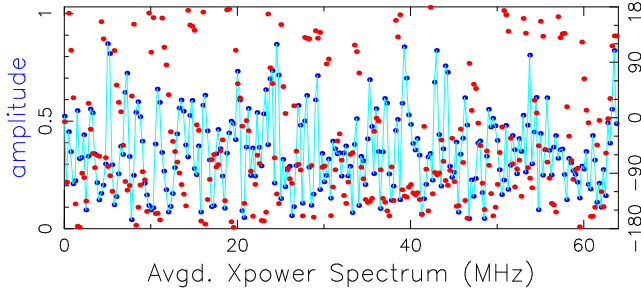


Fringe quality 0

SNR 5.8
 Int time 179.964
 Amp 0.177
 Phase -30.6
 PFD 6.4e-01
 Delays (us)
 SBD 0.098056
 MBD -0.003380
 Fringe rate (Hz)
 0.519434
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

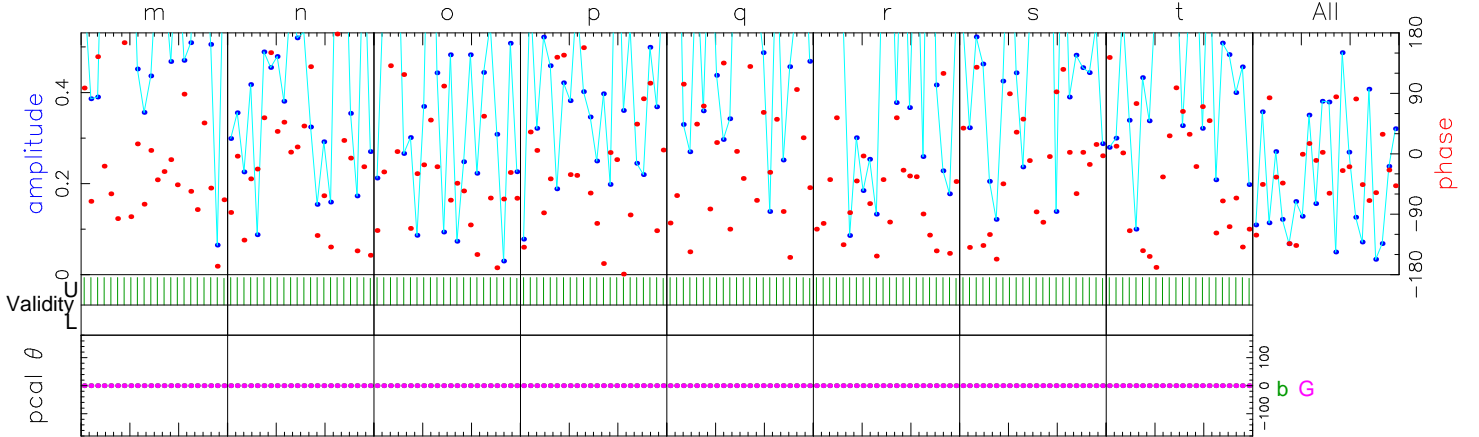


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175911
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-43.6	7.6	-24.1	-29.8	-7.0	-71.8	-4.5	-18.2	Phase	-30.6
	0.3	0.2	0.2	0.1	0.2	0.3	0.2	0.1	Ampl.	0.2
	281.7	58.7	406.0	251.7	95.0	281.9	234.4	425.4	Sbd box	282.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
b:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-5.38659292377E+03	Apriori delay (usec)	-5.38668329399E+03	Resid mbdelay (usec)	-3.37978E-03	+/-	1.9E-04
Sband delay (usec)	-5.38658523799E+03	Apriori clock (usec)	1.9247814E+01	Resid sbdelay (usec)	9.80560E-02	+/-	1.5E-03
Phase delay (usec)	-5.38668329498E+03	Apriori clockrate (us/s)	5.0605787E-07	Resid phdelay (usec)	-9.87838E-07	+/-	6.4E-07
Delay rate (us/s)	6.76340453786E-01	Apriori rate (us/s)	6.76334423674E-01	Resid rate (us/s)	6.03011E-06	+/-	6.2E-09
Total phase (deg)	-10.7	Apriori accel (us/s/s)	2.92105772647E-05	Resid phase (deg)	-30.6	+/-	19.9

ph/seg (deg)	60.7	Theor.	46.6	Amplitude	0.177 +/- 0.031	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	92.4	Search (1024X32)	0.152	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	28.2	Inc. seg. avg.	0.180	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	47.1	Inc. frq. avg.	0.176	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011	
				Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 132.0 el 33.1 pa -29.7 G: az 182.2 el 53.5 pa 2.1 u,v (fr/asec) -3860.338 1169.008 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bG..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bG.W.36.3MP2MB

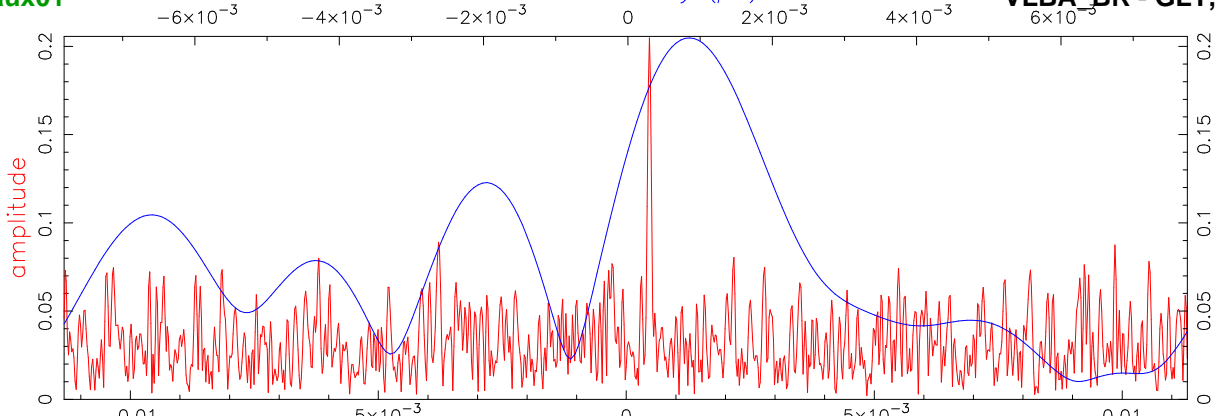
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bg

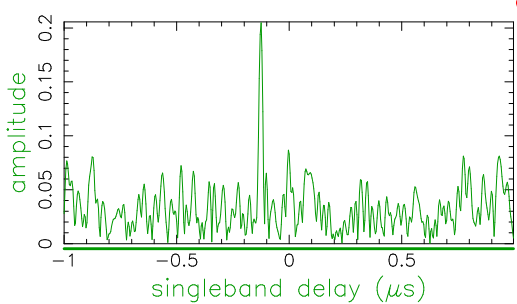
VLBA_BR - GLT, fgroup W, pol RR

multiband delay (μ s)

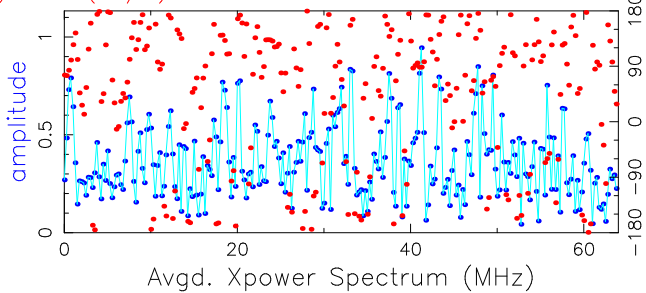


Fringe quality 9

SNR 7.5
 Int time 179.969
 Amp 0.206
 Phase 109.0
 PFD 7.6e-06
 Delays (us)
 SBD -0.125773
 MBD 0.000824
 Fringe rate (Hz)
 0.040855
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

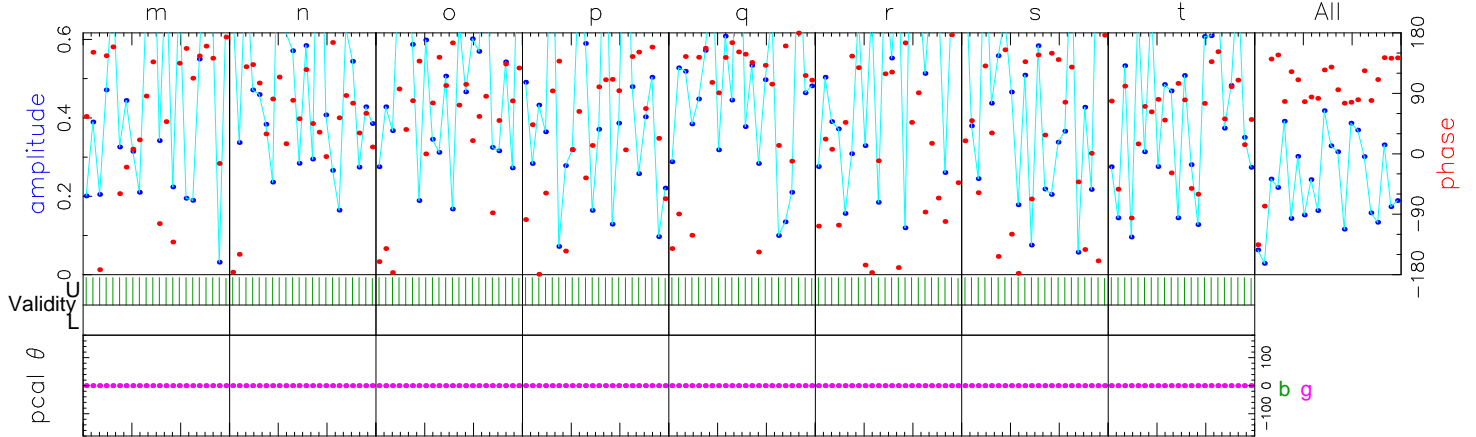


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175912
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	0	0	0	0	0	0	0	0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
b:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
g	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	
Group delay (usec) (SBD)	6.17864239980E+03		Apriori delay (usec)		6.17876657607E+03		Resid mbdelay (usec)		8.23730E-04	+/- 1.4E-04
Sband delay (usec)	6.17864080332E+03		Apriori clock (usec)		4.2850819E+00		Resid sbdelay (usec)		-1.25773E-01	+/- 1.1E-03
Phase delay (usec)	6.17876657959E+03		Apriori clockrate (us/s)		-2.0788102E-07		Resid phdelay (usec)		3.51474E-06	+/- 4.9E-07
Delay rate (us/s)	7.21121200217E-01		Apriori rate (us/s)		7.21120725930E-01		Resid rate (us/s)		4.74287E-07	+/- 4.7E-09
Total phase (deg)			59.6		Apriori accel (us/s/s)		-3.36951862629E-05		109.0	+/- 15.2

ph/seg (deg) 51.2 35.6 Amplitude 0.206 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 54.9 62.2 Search (1024X32) 0.196 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 35.4 21.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 45.6 37.5 Inc. seg. avg. 0.197 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.224 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 b: az 132.0 el 33.1 pa -29.7 g: az 192.9 el 15.1 pa 3.0 u,v (fr/asec) -4150.018 -2111.349 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//bg..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//bg.W.41.3MP2MB

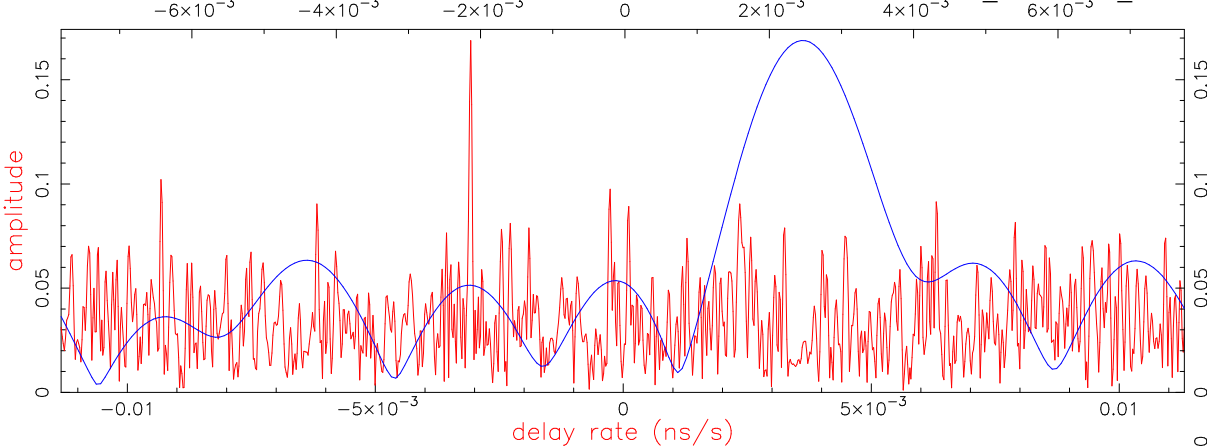
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bG

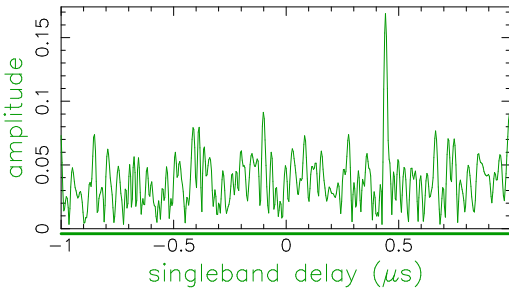
VLBA_BR - GBT_COLD, fgroup W, pol RL

multiband delay (μ s)

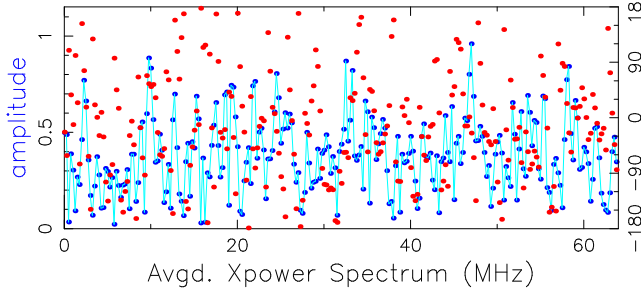


Fringe quality 0

SNR 6.2
 Int time 179.964
 Amp 0.174
 Phase -9.5
 PFD 7.5e-02
 Delays (us)
 SBD 0.441191
 MBD 0.002458
 Fringe rate (Hz)
 -0.265843
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

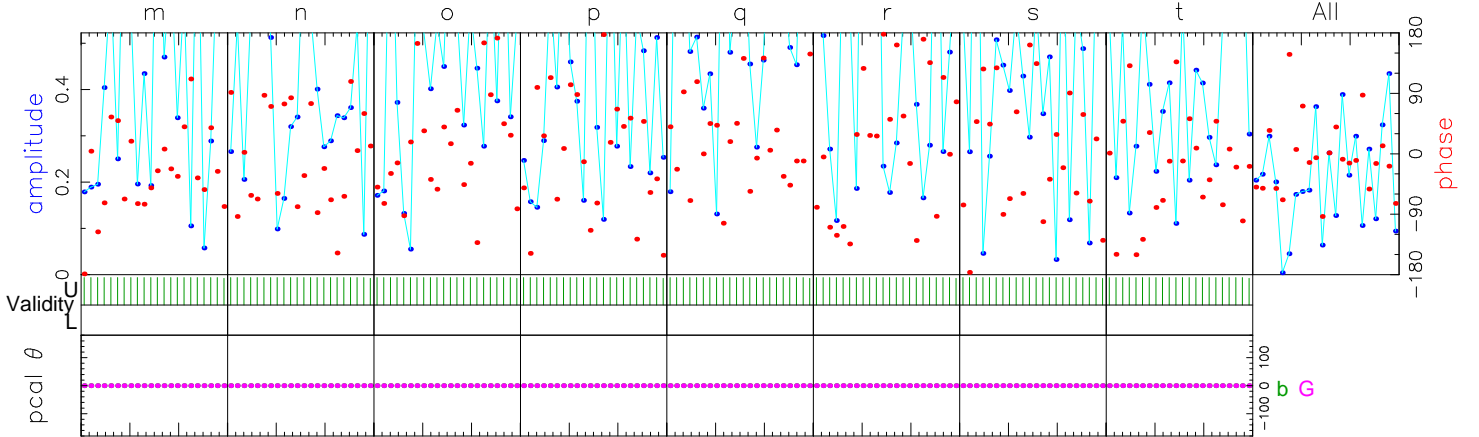


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175913
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-25.1	-10.7	3.9	7.0	8.3	5.6	-10.2	-30.3	Phase	-9.5
	0.3	0.2	0.2	0.1	0.2	0.1	0.1	0.2	Ampl.	0.2
	370.8	161.7	152.4	127.7	163.8	143.0	59.3	477.6	Sbd box	369.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
b:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-5.38624333586E+03	Apriori delay (usec)	-5.38668329399E+03	Resid mbdelay (usec)	2.45813E-03	+/-	1.8E-04
Sband delay (usec)	-5.38624210274E+03	Apriori clock (usec)	1.9247814E+01	Resid sbdelay (usec)	4.41191E-01	+/-	1.4E-03
Phase delay (usec)	-5.38668329430E+03	Apriori clockrate (us/s)	5.0605787E-07	Resid phdelay (usec)	-3.05680E-07	+/-	6.0E-07
Delay rate (us/s)	6.76331337506E-01	Apriori rate (us/s)	6.76334423674E-01	Resid rate (us/s)	-3.08617E-06	+/-	5.7E-09
Total phase (deg)	-349.6	Apriori accel (us/s/s)	2.92105772647E-05	Resid phase (deg)	-9.5	+/-	18.5

ph/seg (deg)	55.4	Theor.	43.4	Amplitude	0.174 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	70.1	Search (1024X32)	0.160	Search	0.160	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	16.7	Interp.	0.000	Inc. seg. avg.	0.167	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	42.3	Inc. frq. avg.	0.163	Inc. frq. avg.	0.163	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
						Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 132.0 el 33.1 pa -29.7 G: az 182.2 el 53.5 pa 2.1 u,v (fr/asec) -3860.338 1169.008 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//bG..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//bG.W.44.3MP2MB

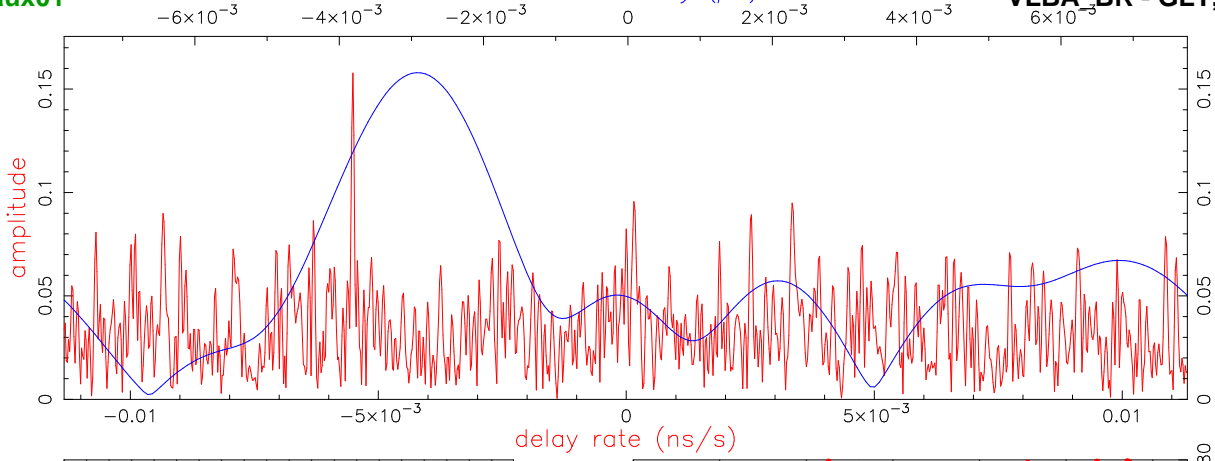
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bg

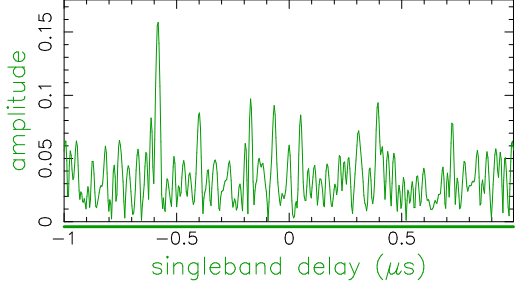
VLBA_BR - GLT, fgroup W, pol LR

multiband delay (μ s)

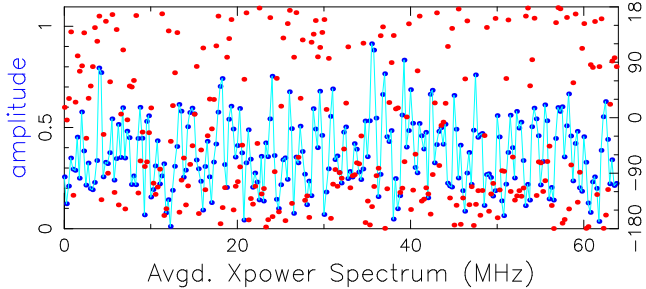


Fringe quality 0

SNR 5.8
 Int time 179.969
 Amp 0.175
 Phase 0.6
 PFD 5.0e-01
 Delays (us)
 SBD -0.583413
 MBD -0.002984
 Fringe rate (Hz)
 -0.474735
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

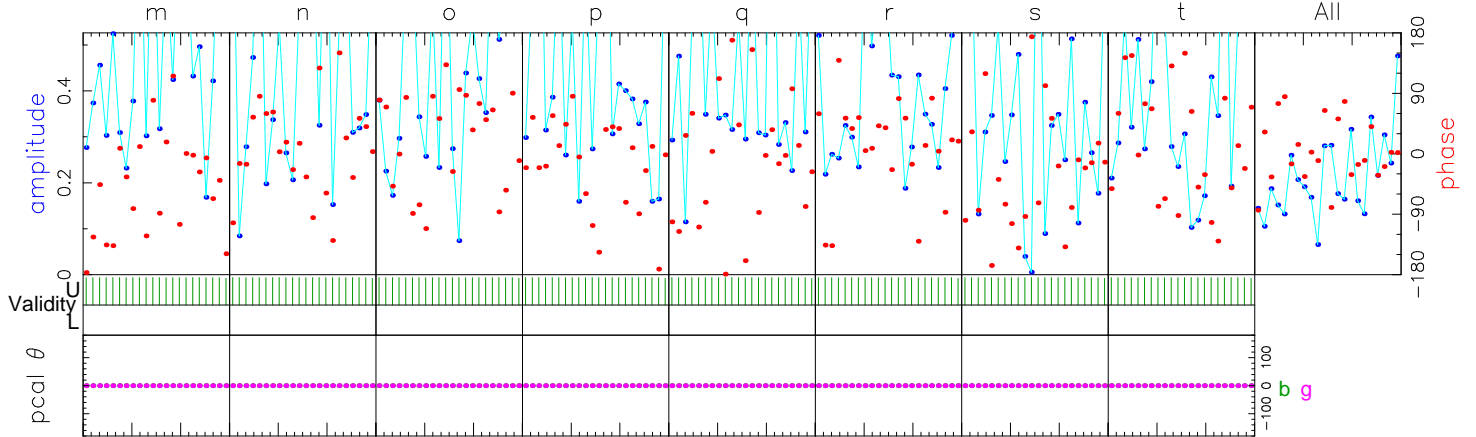


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175914
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-43.3	2.6	48.6	1.9	-6.4	25.4	-53.0	23.0	Phase	0.6
	0.2	0.2	0.2	0.3	0.1	0.3	0.2	0.1	Ampl.	0.2
	358.5	94.1	289.3	106.2	262.2	108.4	258.8	240.0	Sbd box	107.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
b:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
g	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	6.17818546740E+03		Apriori delay (usec)		6.17876657607E+03		Resid mbdelay (usec)		-2.98368E-03	+/- 1.9E-04
Sband delay (usec)	6.17818316257E+03		Apriori clock (usec)		4.2850819E+00		Resid sbdelay (usec)		-5.83413E-01	+/- 1.5E-03
Phase delay (usec)	6.17876657609E+03		Apriori clockrate (us/s)		-2.0788102E-07		Resid phdelay (usec)		1.81888E-08	+/- 6.3E-07
Delay rate (us/s)	7.21115214730E-01		Apriori rate (us/s)		7.21120725930E-01		Resid rate (us/s)		-5.51120E-06	+/- 6.1E-09
Total phase (deg)	311.1		Apriori accel (us/s/s)		-3.36951862629E-05		Resid phase (deg)		0.6	+/- 19.7

ph/seg (deg) RMS Theor. Amplitude 0.175 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 66.6 46.4 46.1 Search (1024X32) 0.156 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 37.1 27.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.7 48.5 Inc. seg. avg. 0.178 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.182 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 b: az 132.0 el 33.1 pa -29.7 g: az 192.9 el 15.1 pa 3.0 u,v (fr/asec) -4150.018 -2111.349 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//bg..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//bg.W.48.3MP2MB

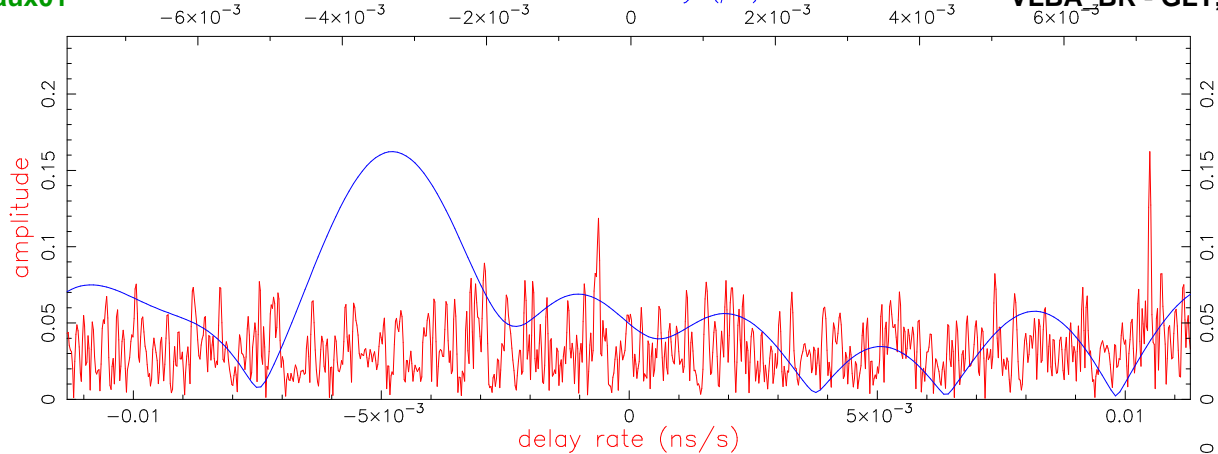
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bg

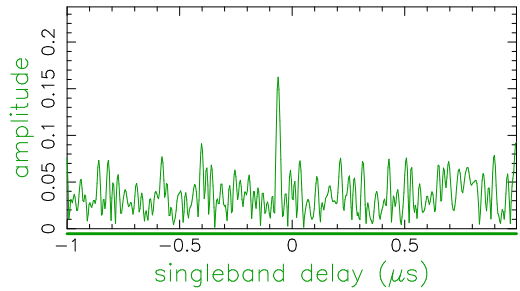
VLBA_BR - GLT, fgroup W, pol RL

multiband delay (μ s)

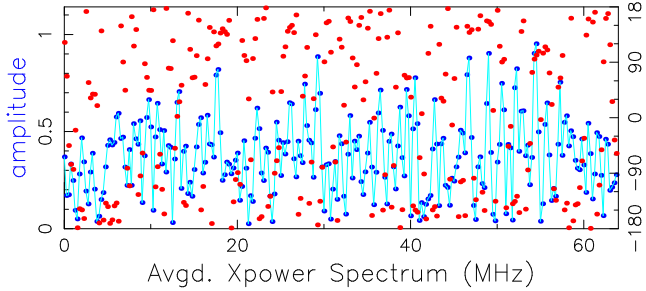


Fringe quality 0

SNR 6.0
 Int time 179.968
 Amp 0.238
 Phase -160.6
 PFD 2.9e-01
 Delays (us)
 SBD -0.062475
 MBD -0.003307
 Fringe rate (Hz) 0.904761
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

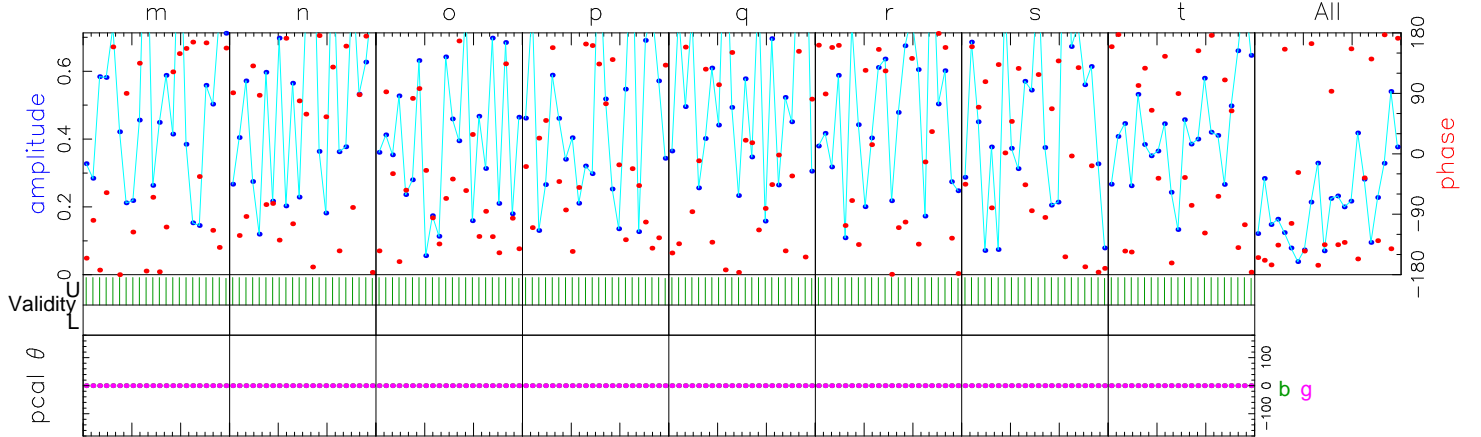


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175916
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-173.5	-168.1	-116.9	-127.1	-149.1	176.3	165.6	-164.3	Phase	-160.6
	0.5	0.3	0.2	0.2	0.3	0.3	0.1	0.2	Ampl.	0.2
	241.3	158.1	320.9	255.5	428.7	479.3	109.5	510.4	Sbd box	241.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
b:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
g	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD)	6.17870076873E+03	Apriori delay (usec)	6.17876657607E+03	Resid mbdelay (usec)	-3.30734E-03	+/-	1.8E-04
Sband delay (usec)	6.17870410107E+03	Apriori clock (usec)	4.2850819E+00	Resid sbdelay (usec)	-6.24750E-02	+/-	1.4E-03
Phase delay (usec)	6.17876657089E+03	Apriori clockrate (us/s)	-2.0788102E-07	Resid phdelay (usec)	-5.18018E-06	+/-	6.2E-07
Delay rate (us/s)	7.21131229304E-01	Apriori rate (us/s)	7.21120725930E-01	Resid rate (us/s)	1.05034E-05	+/-	6.0E-09
Total phase (deg)	149.9	Apriori accel (us/s/s)	-3.36951862629E-05	Resid phase (deg)	-160.6	+/-	19.2

ph/seg (deg)	53.1	Theor.	45.1	Amplitude	0.238 +/- 0.040	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	83.6		78.8	Search (1024X32)	0.154	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	29.1		27.2	Inc. seg. avg.	0.243	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	51.3		47.5	Inc. frq. avg.	0.229	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	mb window (us) -0.008 0.008
						Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
							ion window (TEC) 0.00 0.00

b: az 132.0 el 33.1 pa -29.7 g: az 192.9 el 15.1 pa 3.0 u,v (fr/asec) -4150.018 -2111.349 simultaneous interpolator

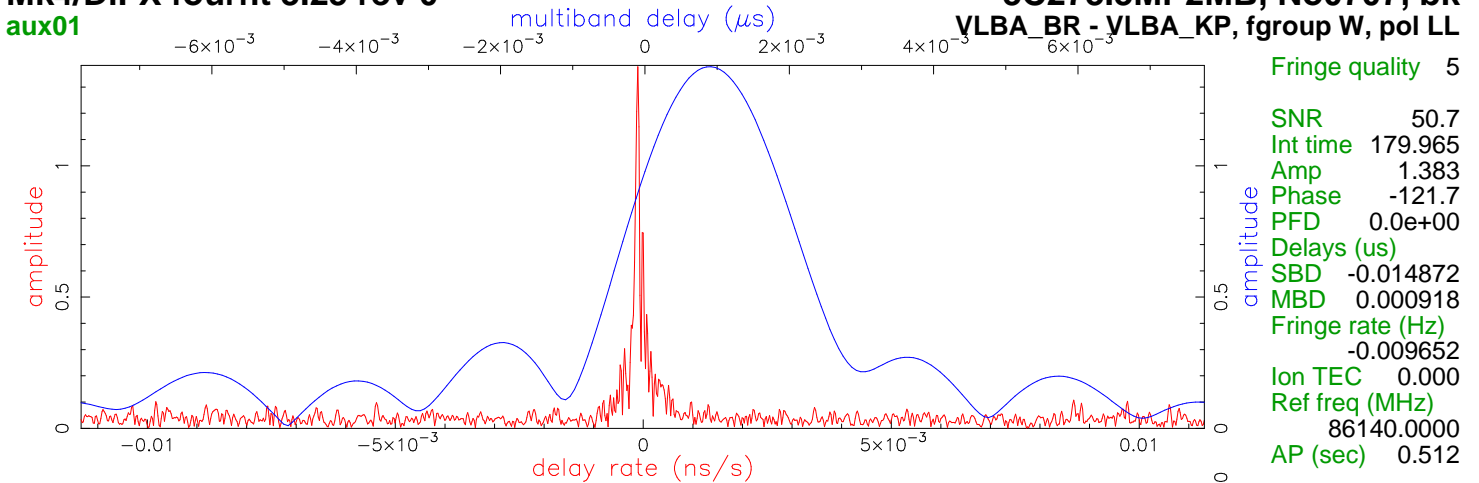
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bg..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bg.W.56.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bk

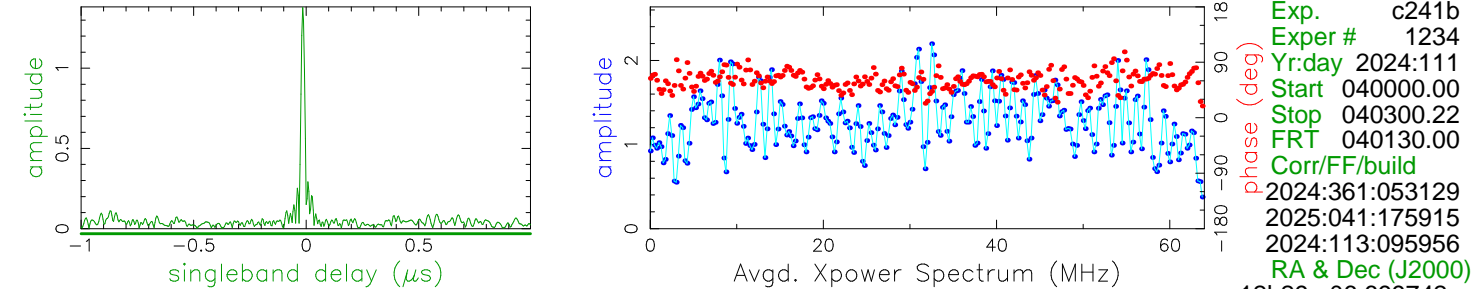
VLBA_BR - VLBA_KP, fgroup W, pol LL



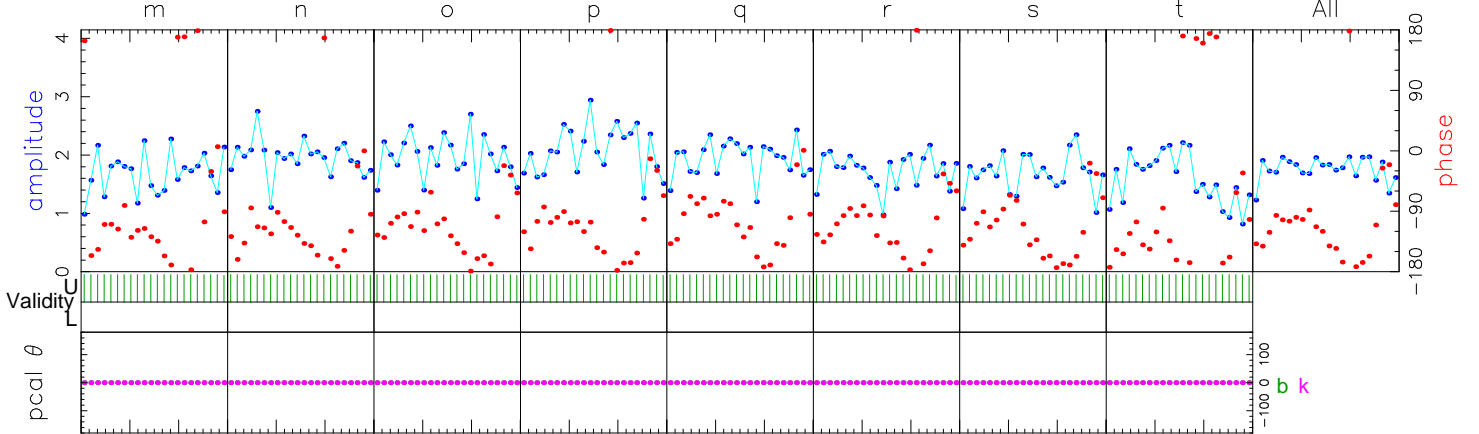
Fringe quality 5

SNR 50.7
 Int time 179.965
 Amp 1.383
 Phase -121.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.014872
 MBD 0.000918
 Fringe rate (Hz) -0.009652
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175915
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-133.2	-125.7	-113.4	-120.9	-104.1	-116.7	-120.0	-145.4	Phase	-121.7
	1.2	1.5	1.5	1.6	1.5	1.4	1.3	1.3	Ampl.	1.4
	253.5	253.4	253.0	253.0	253.5	252.9	253.3	252.4	Sbd box	253.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
k	0	0	0	0	0	0	0	0	PC freqs	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-4.29190517720E+03	Apriori delay (usec)	-4.29189047036E+03	Resid mbdelay (usec)	9.18158E-04	+/-	2.1E-05
Sband delay (usec)	-4.29190534211E+03	Apriori clock (usec)	4.4728985E+00	Resid sbdelay (usec)	-1.48718E-02	+/-	1.7E-04
Phase delay (usec)	-4.29189047428E+03	Apriori clockrate (us/s)	4.2423487E-07	Resid phdelay (usec)	-3.92543E-06	+/-	7.3E-08
Delay rate (us/s)	-1.97621392492E-02	Apriori rate (us/s)	-1.97620272007E-02	Resid rate (us/s)	-1.12048E-07	+/-	7.0E-10
Total phase (deg)	-163.7	Apriori accel (us/s/s)	2.36581300691E-05	Resid phase (deg)	-121.7	+/-	2.3

ph/seg (deg)	41.3	Theor.	5.3	Amplitude	1.383 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	30.7	Search (1024X32)	1.373	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	13.6	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	9.5	Inc. seg. avg.	1.754	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011	
		Inc. frq. avg.	1.404	Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 132.0 el 33.1 pa -29.7 k: az 130.2 el 48.5 pa -40.3 u,v (fr/asec) 125.862 1968.942 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bk..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bk.W.52.3MP2MB

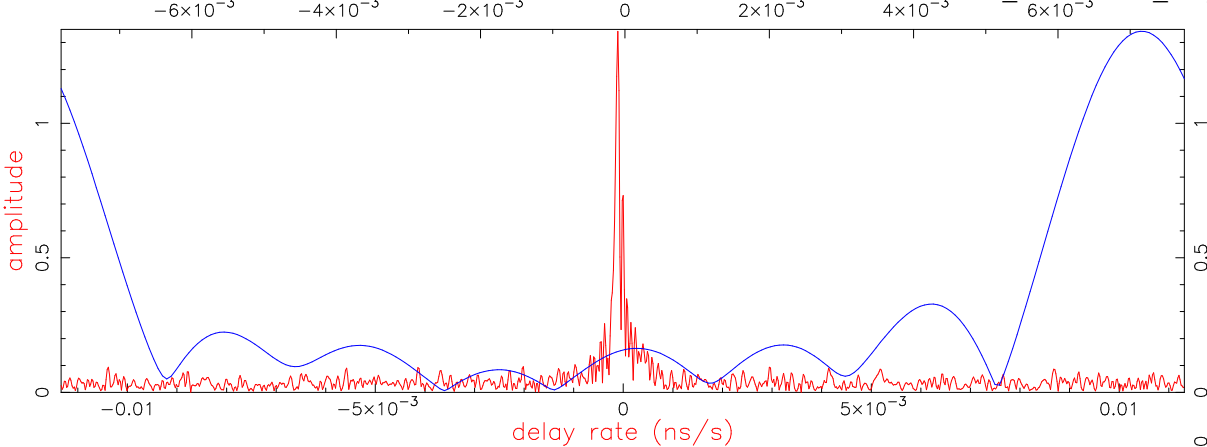
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bk

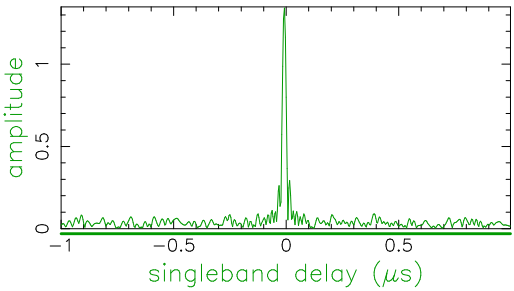
VLBA_BR - VLBA_KP, fgroup W, pol RR

multiband delay (μ s)

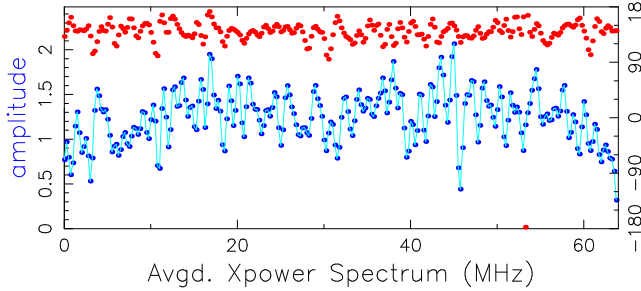


Fringe quality 6

SNR 49.5
 Int time 179.965
 Amp 1.349
 Phase -42.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.008719
 MBD 0.007138
 Fringe rate (Hz)
 -0.009803
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

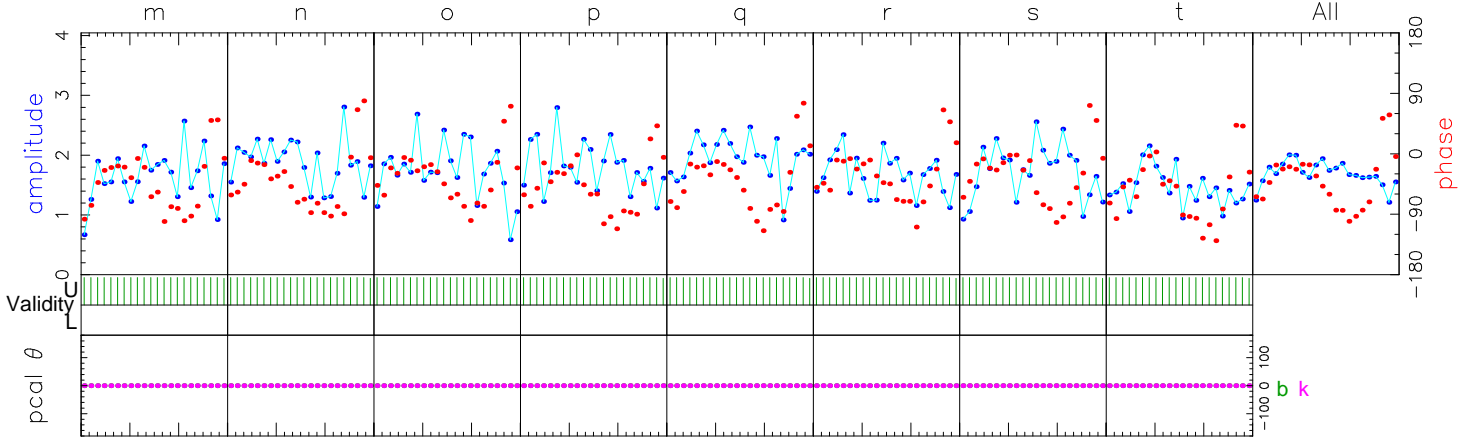


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175917
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-45.8	-44.4	-38.9	-51.4	-39.8	-33.4	-36.0	-52.6	Phase	-42.5
	1.3	1.5	1.5	1.5	1.4	1.4	1.3	1.1	Ampl.	1.3
	254.4	255.0	254.8	254.6	255.2	254.8	254.7	254.2	Sbd box	254.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
k	0	0	0	0	0	0	0	0	PC freqs	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-4.29189895742E+03	Apriori delay (usec)	-4.29189047036E+03	Resid mbdelay (usec)	7.13794E-03	+/-	2.2E-05
Sband delay (usec)	-4.29189918961E+03	Apriori clock (usec)	4.4728985E+00	Resid sbdelay (usec)	-8.71925E-03	+/-	1.7E-04
Phase delay (usec)	-4.29189047173E+03	Apriori clockrate (us/s)	4.2423487E-07	Resid phdelay (usec)	-1.37125E-06	+/-	7.5E-08
Delay rate (us/s)	-1.97621410008E-02	Apriori rate (us/s)	-1.97620272007E-02	Resid rate (us/s)	-1.13800E-07	+/-	7.2E-10
Total phase (deg)	-84.5	Apriori accel (us/s/s)	2.36581300691E-05	Resid phase (deg)	-42.5	+/-	2.3

ph/seg (deg)	41.4	Theor.	5.4	Amplitude	1.349 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	29.3		9.5	Search (1024X32)	1.324	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	7.5		3.3	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	9.6		5.7	Inc. seg. avg.	1.683	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	1.348	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 132.0 el 33.1 pa -29.7 k: az 130.2 el 48.5 pa -40.3 u,v (fr/asec) 125.862 1968.942 simultaneous interpolator

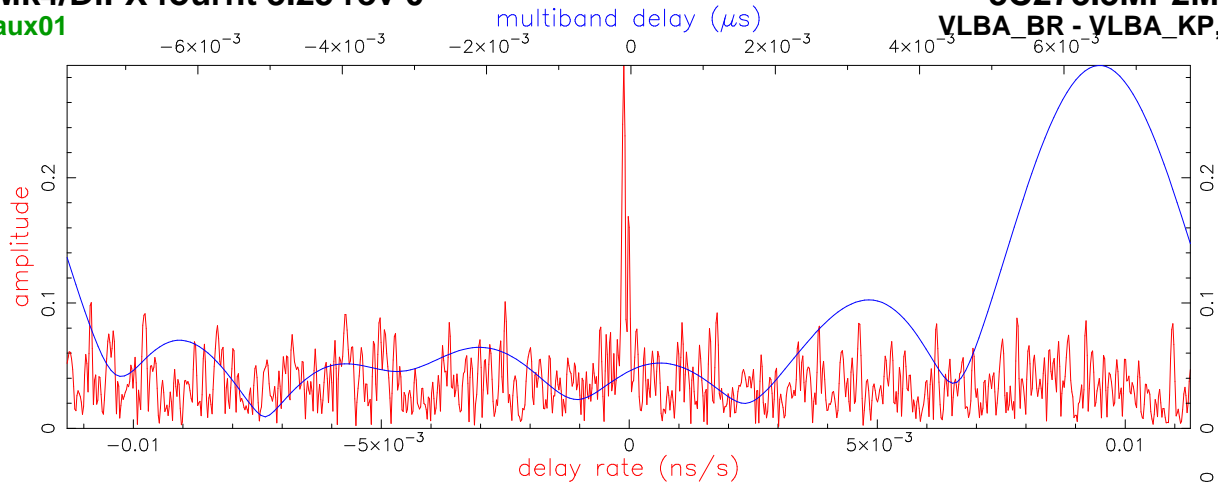
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bk..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bk.W.57.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

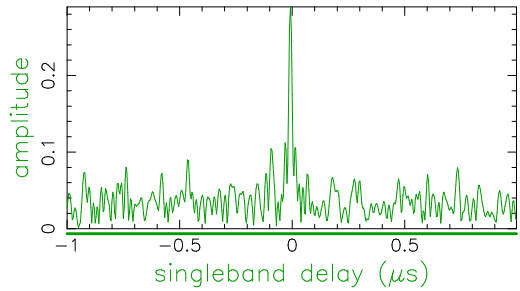
3C273.3MP2MB, No0707, bk

VLBA_BR - VLBA_KP, fgroup W, pol LR

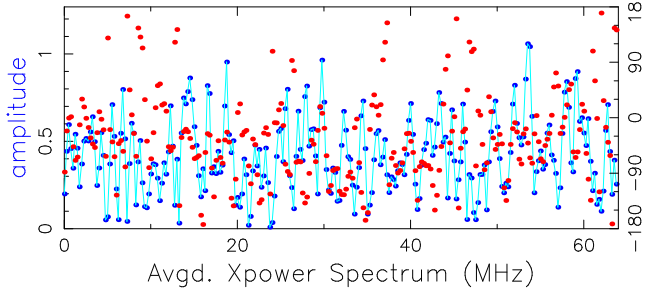


Fringe quality 9

SNR 10.6
 Int time 179.965
 Amp 0.290
 Phase 151.3
 PFD 5.2e-18
 Delays (us)
 SBD -0.007974
 MBD 0.006483
 Fringe rate (Hz)
 -0.009380
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

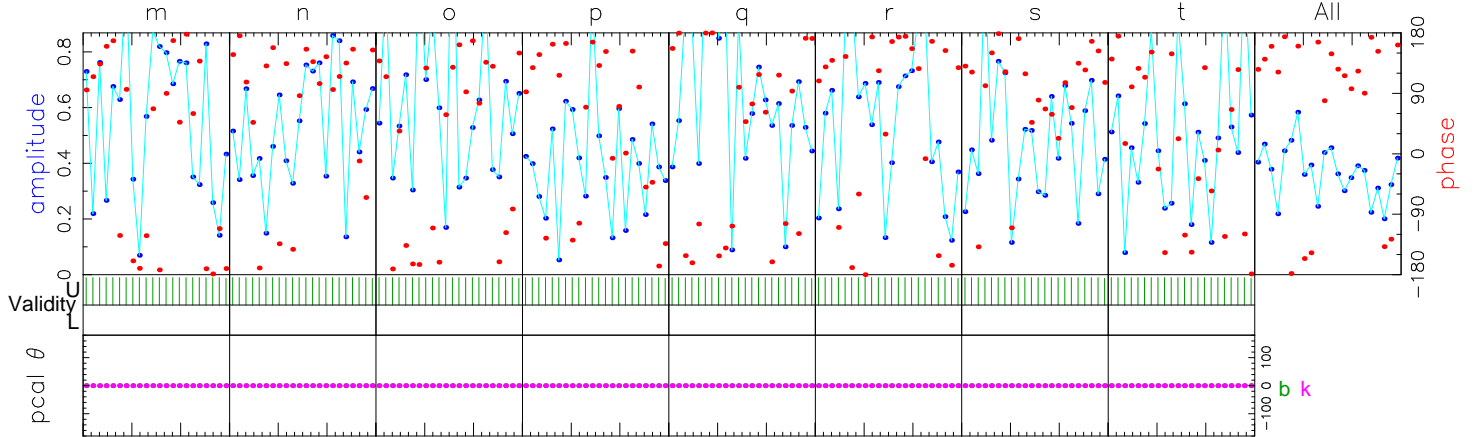


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175919
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



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

Group delay (usec) (SBD)	-4.29189961254E+03	Apriori delay (usec)	-4.29189047036E+03	Resid mbdelay (usec)	6.48281E-03	+/-	1.0E-04
Sband delay (usec)	-4.29189844436E+03	Apriori clock (usec)	4.4728985E+00	Resid sbdelay (usec)	-7.97400E-03	+/-	8.1E-04
Phase delay (usec)	-4.29189046548E+03	Apriori clockrate (us/s)	4.2423487E-07	Resid phdelay (usec)	4.87919E-06	+/-	3.5E-07
Delay rate (us/s)	-1.97621360876E-02	Apriori rate (us/s)	-1.97620272007E-02	Resid rate (us/s)	-1.08887E-07	+/-	3.3E-09
Total phase (deg)	109.4	Apriori accel (us/s/s)	2.36581300691E-05	Resid phase (deg)	151.3	+/-	10.8

ph/seg (deg)	41.0	Theor.	25.3	Amplitude	0.290 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	42.4	Search (1024X32)	0.286	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	20.2	Inc. seg. avg.	0.337	Inc. frq. avg.	0.294	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	30.6	Inc. frq. avg.	0.294			Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 132.0 el 33.1 pa -29.7 k: az 130.2 el 48.5 pa -40.3 u, v (fr/asec) 125.862 1968.942 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//bk..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//bk.W.63.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

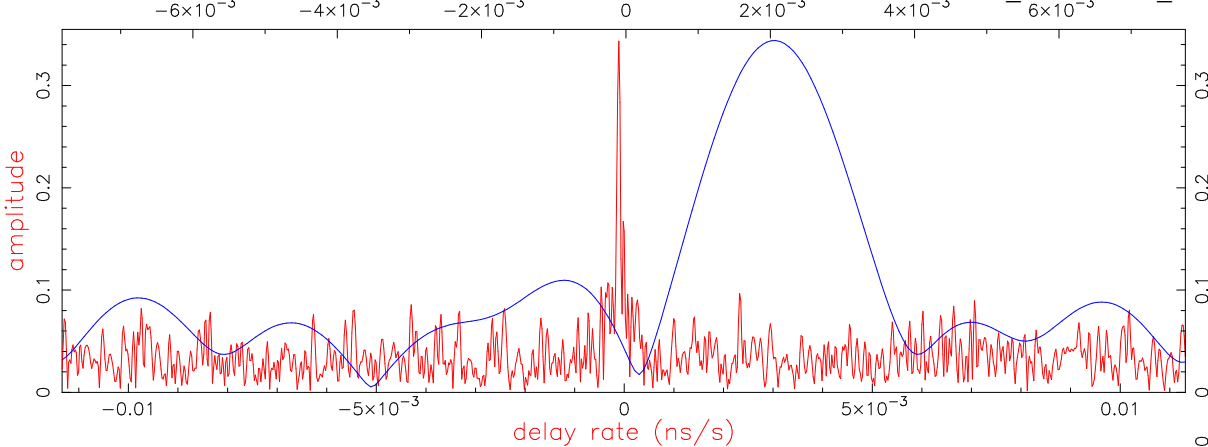
aux01

3C273.3MP2MB, No0707, bk

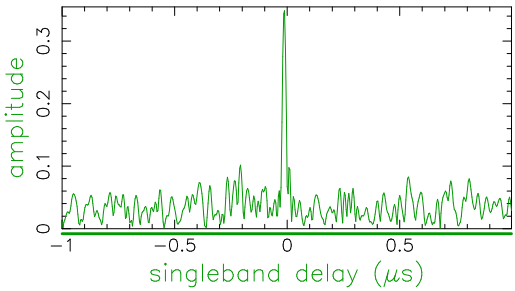
VLBA_BR - VLBA_KP, fgroup W, pol RL

multiband delay (μ s)

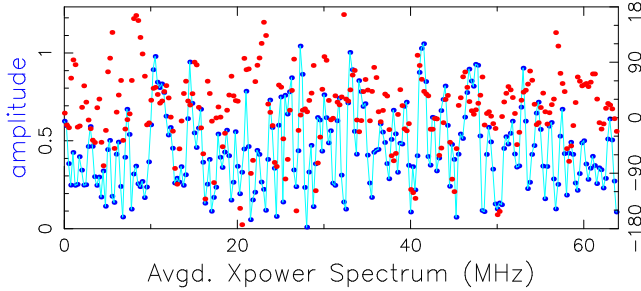
Fringe quality 9



SNR 13.0
 Int time 179.965
 Amp 0.355
 Phase -154.6
 PFD 2.6e-30
 Delays (us)
 SBD -0.013360
 MBD 0.002118
 Fringe rate (Hz)
 -0.009485
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

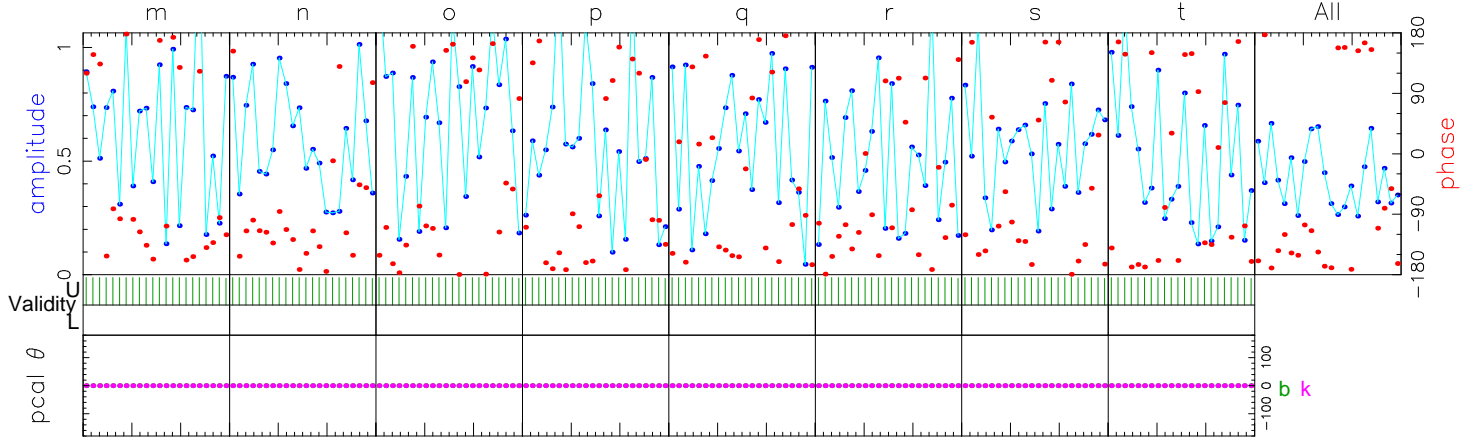


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175920
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-167.9	-120.7	-158.5	-165.9	-161.3	-132.4	-147.6	179.6	Phase	-154.6
	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	Ampl.	0.4
	253.3	253.5	253.1	253.9	253.8	254.1	253.7	253.5	Sbd box	253.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
k	0	0	0	0	0	0	0	0	PC freqs	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-4.29190397751E+03	Apriori delay (usec)	-4.29189047036E+03	Resid mbdelay (usec)	2.11785E-03	+/-	8.3E-05
Sband delay (usec)	-4.29190383011E+03	Apriori clock (usec)	4.4728985E+00	Resid sbdelay (usec)	-1.33597E-02	+/-	6.6E-04
Phase delay (usec)	-4.29189047534E+03	Apriori clockrate (us/s)	4.2423487E-07	Resid phdelay (usec)	-4.98399E-06	+/-	2.8E-07
Delay rate (us/s)	-1.97621373177E-02	Apriori rate (us/s)	-1.97620272007E-02	Resid rate (us/s)	-1.10117E-07	+/-	2.7E-09
Total phase (deg)	-196.5	Apriori accel (us/s/s)	2.36581300691E-05	Resid phase (deg)	-154.6	+/-	8.8

ph/seg (deg)	40.8	Theor.	20.6	Amplitude	0.355 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	43.8	Search (1024X32)	0.342	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	21.3	Inc. seg. avg.	0.406	Inc. frq. avg.	0.354	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	15.2	Inc. frq. avg.	0.354			Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
						Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 132.0 el 33.1 pa -29.7 k: az 130.2 el 48.5 pa -40.3 u,v (fr/asec) 125.862 1968.942 simultaneous interpolator

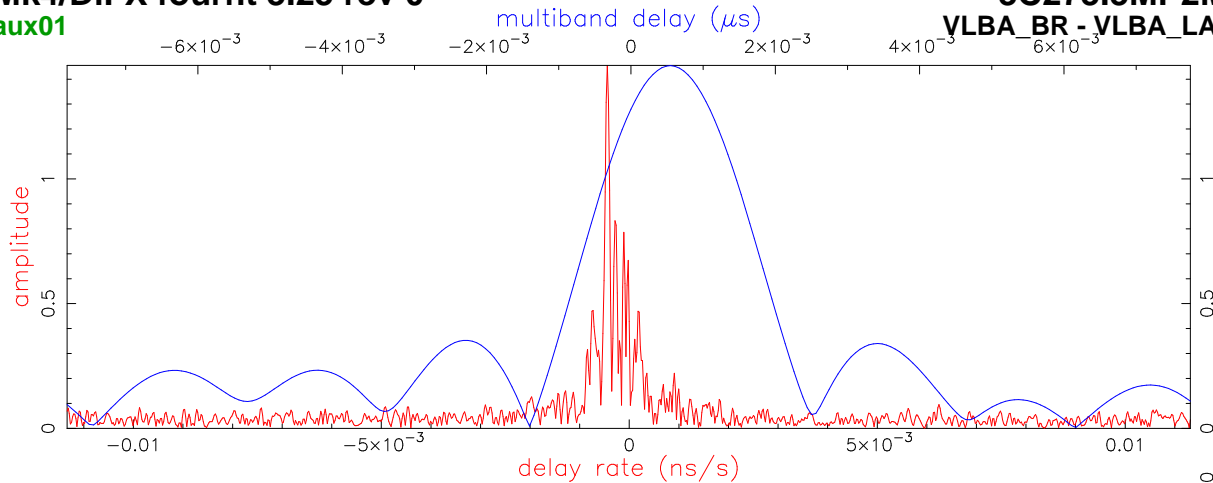
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bk..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bk.W.68.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

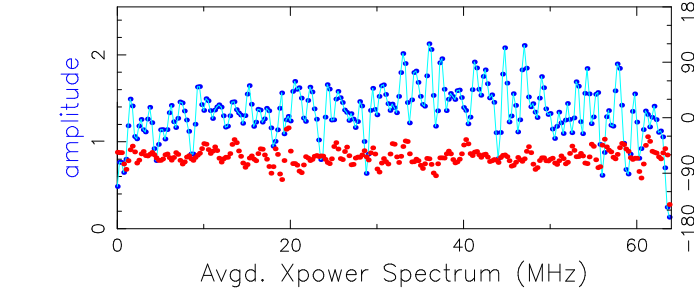
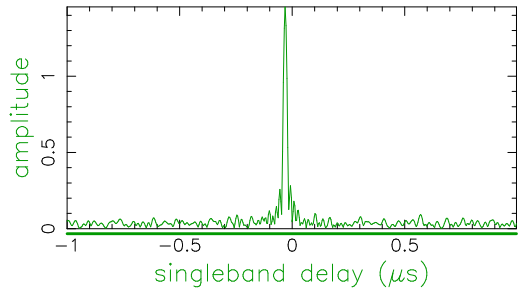
3C273.3MP2MB, No0707, bl

VLBA_BR - VLBA_LA, fgroup W, pol LL

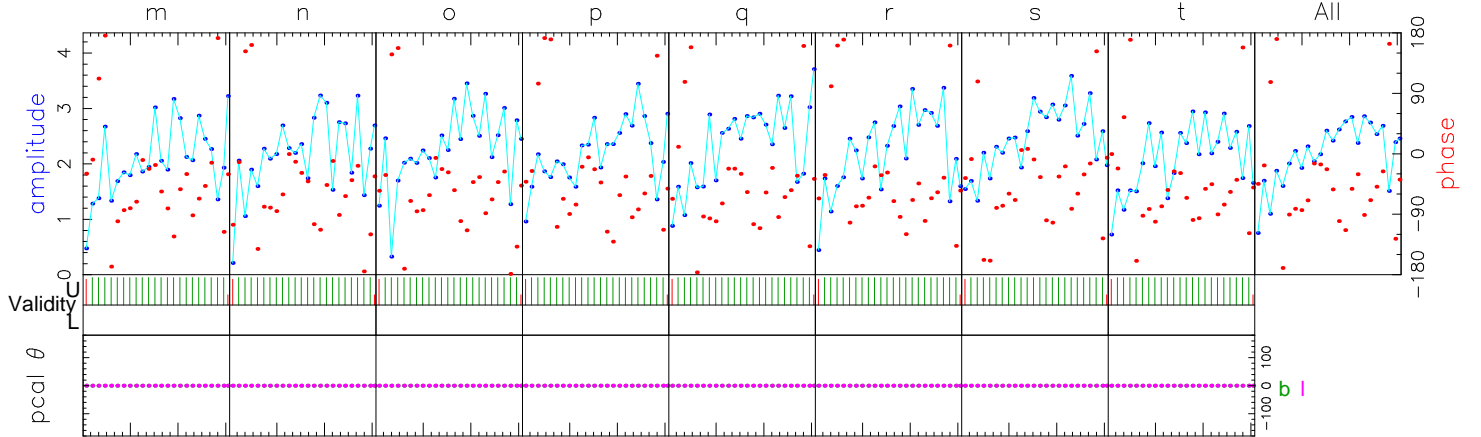


Fringe quality 5

SNR 53.2
 Int time 178.965
 Amp 1.455
 Phase -68.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.031119
 MBD 0.000549
 Fringe rate (Hz)
 -0.037793
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.51
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:180001
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"



Amp. and Phase vs. time for each freq., 24 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-66.9	-65.7	-67.8	-69.8	-73.0	-72.6	-54.7	-73.4		-68.0
	1.3	1.4	1.6	1.3	1.5	1.5	1.5	1.5	Ampl.	1.5
	249.3	249.1	249.0	248.8	249.2	249.0	249.1	248.4	Sbd box	249.0
U/L	351/0	351/0	351/0	351/0	351/0	351/0	351/0	351/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
l	0	0	0	0	0	0	0	0	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD) -4.38658886053E+03 Apriori delay (usec) -4.38655815967E+03 Resid mbdelay (usec) 5.49140E-04 +/- 2.0E-05
 Sband delay (usec) -4.38658927867E+03 Apriori clock (usec) 1.2923018E+01 Resid sbdelay (usec) -3.11190E-02 +/- 1.6E-04
 Phase delay (usec) -4.38655816186E+03 Apriori clockrate (us/s) 8.1044199E-07 Resid phdelay (usec) -2.19263E-06 +/- 6.9E-08
 Delay rate (us/s) 1.13726383035E-01 Apriori rate (us/s) 1.13726821769E-01 Resid rate (us/s) -4.38735E-07 +/- 6.7E-10
 Total phase (deg) -22.6 Apriori accel (us/s/s) 2.39977823532E-05 Resid phase (deg) -68.0 +/- 2.2

RMS Theor. Amplitude 1.455 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 63.9 5.3 Search (1024X32) 1.435 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 62.6 9.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 6.6 3.0 Inc. seg. avg. 2.179 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 7.5 5.3 Inc. frq. avg. 1.461 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 132.0 el 33.1 pa -29.7 l: az 139.8 el 48.9 pa -31.4 u,v (fr/asec) -639.018 1480.396 simultaneous interpolator

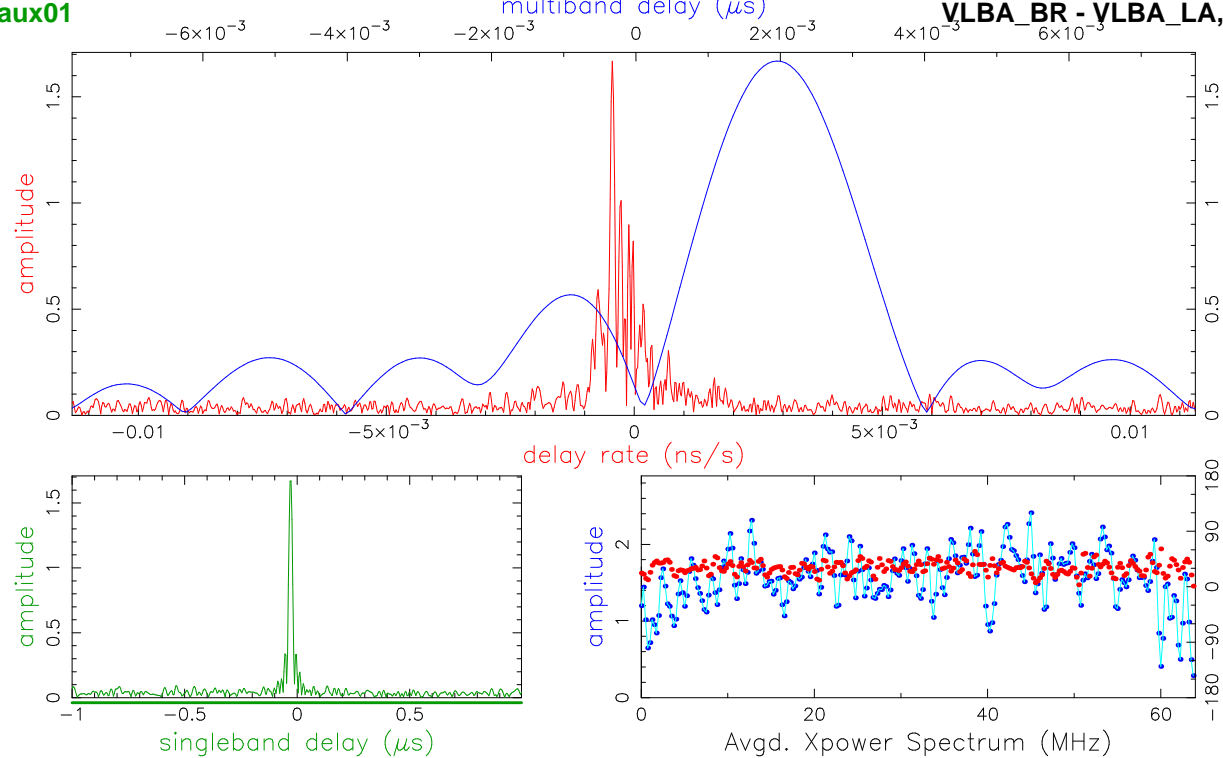
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bl..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bl.W.245.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bl

VLBA_BR - VLBA_LA, fgroup W, pol RR

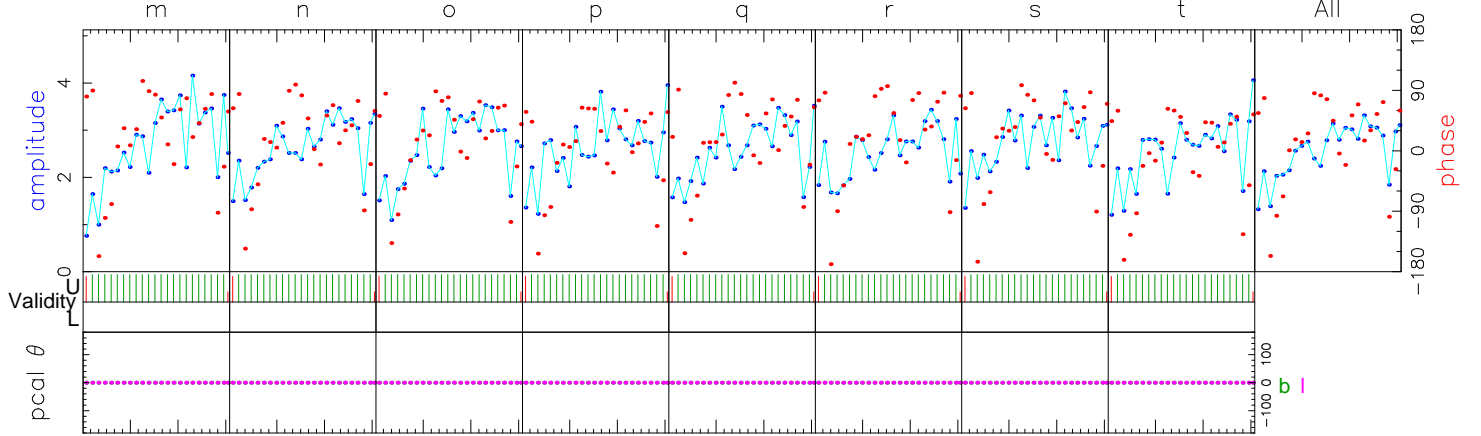


Fringe quality 4

SNR 62.5
 Int time 178.965
 Amp 1.709
 Phase 30.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.029268
 MBD 0.002001
 Fringe rate (Hz)
 -0.037919
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.51
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:180003
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 24 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



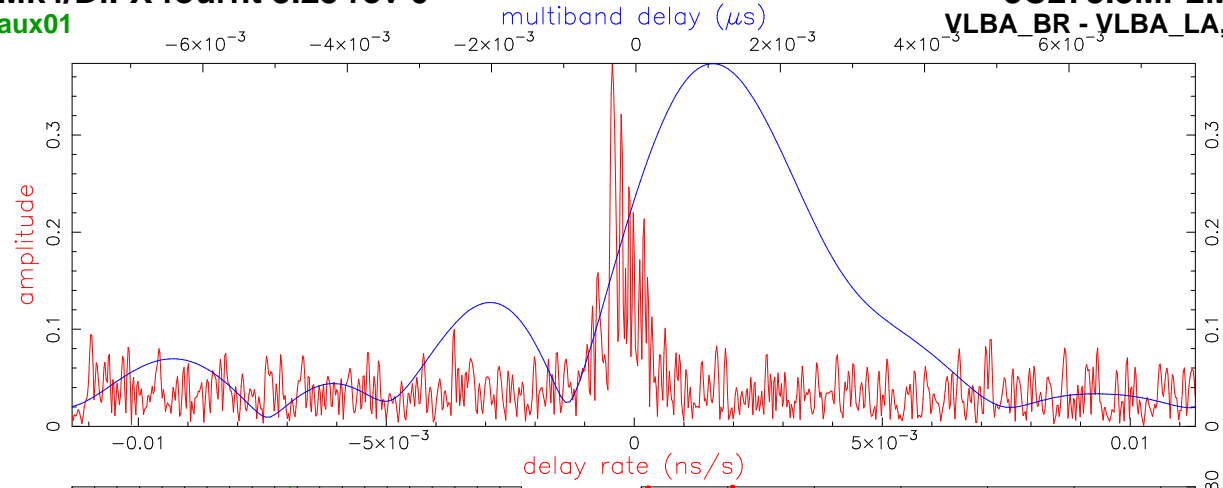
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	351/0	351/0	351/0	351/0	351/0	351/0	351/0	351/0			
b	0	0	0	0	0	0	0	0			
l	0	0	0	0	0	0	0	0			
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
b	1000	1000	1000	1000	1000	1000	1000	1000			
l	1000	1000	1000	1000	1000	1000	1000	1000			
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec) (SBD)	-4.38658740834E+03								2.00133E-03	+/- 1.7E-05	
Sband delay (usec)	-4.38658742792E+03								-2.92682E-02	+/- 1.4E-04	
Phase delay (usec)	-4.3865815867E+03								9.96141E-07	+/- 5.9E-08	
Delay rate (us/s)	1.13726381564E-01								-4.40206E-07	+/- 5.7E-10	
Total phase (deg)			-283.7						30.9	+/- 1.8	
Apriori delay (usec)									2.00133E-03	+/- 1.7E-05	
Apriori clock (usec)									1.2923018E+01	+/- 1.4E-04	
Apriori clockrate (us/s)									8.1044199E-07	+/- 5.9E-08	
Apriori rate (us/s)									1.13726821769E-01	+/- 5.7E-10	
Apriori accel (us/s/s)									2.39977823532E-05	+/- 1.8	
Resid mbdelay (usec)									2.00133E-03	+/- 1.7E-05	
Resid sbdelay (usec)									-2.92682E-02	+/- 1.4E-04	
Resid phdelay (usec)									9.96141E-07	+/- 5.9E-08	
Resid rate (us/s)									-4.40206E-07	+/- 5.7E-10	
Resid phase (deg)									30.9	+/- 1.8	
PCal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5								
PCal rate:	0.000E+00,	0.000E+00 (us/s)									
Bits/sample:	2x2	SampCntNorm: enabled									
Data rate(MSamp/s):	128 MBpts	32 Amb	0.016 us								
Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite								
sb window (us)	-1.000	1.000									
mb window (us)	-0.008	0.008									
dr window (ns/s)	-0.011	0.011									
ion window (TEC)	0.00	0.00									
b: az 132.0 el 33.1 pa -29.7	l: az 139.8 el 48.9 pa -31.4		u,v (fr/asec) -639.018 1480.396						simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/c241b/v2/3mm/1234/No0707/bl_.3MP2MB		Output file: /Exps/c241b/v2/3mm/1234/No0707/bl.W.256.3MP2MB								

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bl

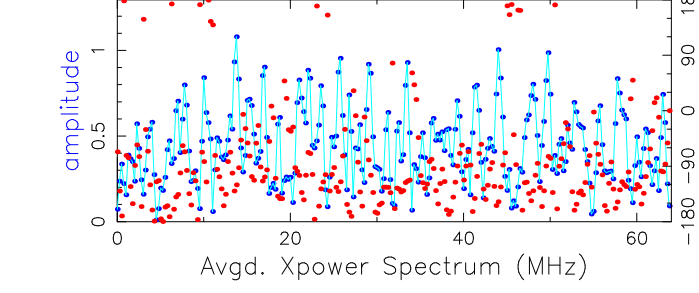
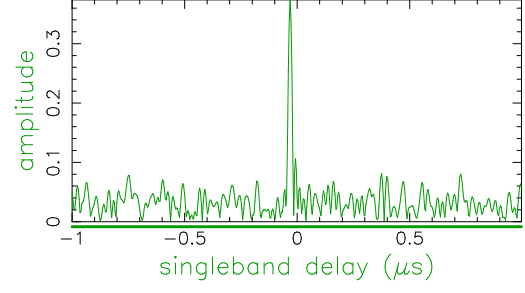
VLBA_BR - VLBA_LA, fgroup W, pol LR



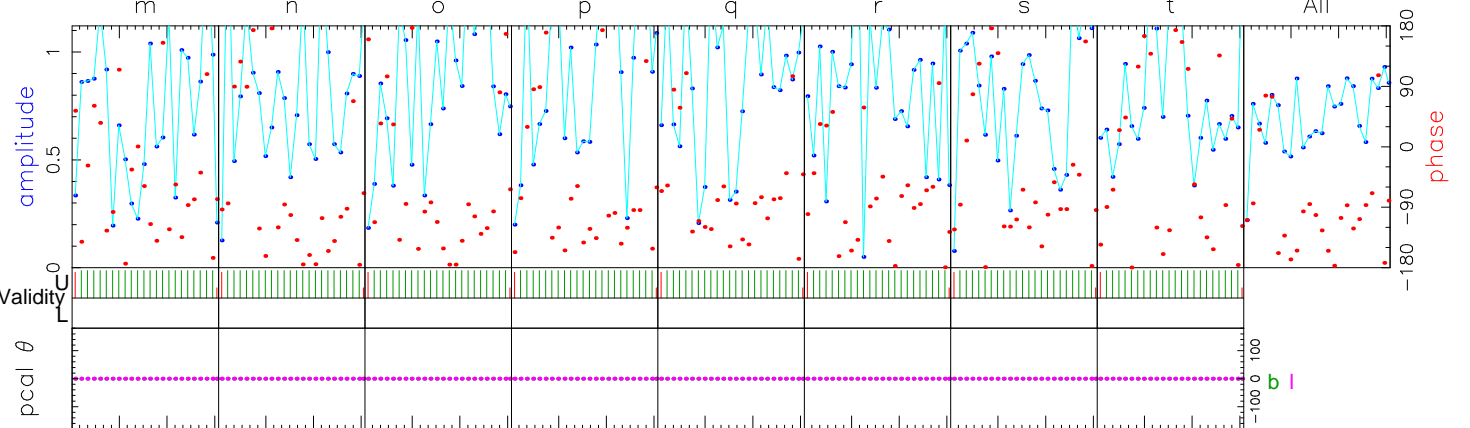
Fringe quality 9

SNR 13.7
 Int time 178.965
 Amp 0.374
 Phase -124.6
 PFD 4.5e-34
 Delays (us)
 SBD -0.031335
 MBD 0.001061
 Fringe rate (Hz)
 -0.038431
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.51
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:180004
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"



Amp. and Phase vs. time for each freq., 24 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-116.4	-144.0	-130.3	-127.2	-97.1	-101.1	-112.3	-168.8	Phase	-124.6
	0.2	0.4	0.5	0.5	0.5	0.4	0.3	0.4	Ampl.	0.4
	102.8	248.9	248.9	249.6	249.2	248.7	248.3	247.9	Sbd box	249.0
U/L	351/0	351/0	351/0	351/0	351/0	351/0	351/0	351/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
l	0	0	0	0	0	0	0	0	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec) (SBD)	-4.38658834903E+03		Apriori delay (usec)		-4.38655815967E+03		Resid mbdelay (usec)		1.06064E-03	+/- 7.9E-05
Sband delay (usec)	-4.38658949467E+03		Apriori clock (usec)		1.2923018E+01		Resid sbdelay (usec)		-3.13350E-02	+/- 6.3E-04
Phase delay (usec)	-4.38655816369E+03		Apriori clockrate (us/s)		8.1044199E-07		Resid phdelay (usec)		-4.01753E-06	+/- 2.7E-07
Delay rate (us/s)	1.13726375619E-01		Apriori rate (us/s)		1.13726821769E-01		Resid rate (us/s)		-4.46150E-07	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		2.39977823532E-05		Resid phase (deg)		-124.6	+/- 8.4

ph/seg (deg) 69.5 20.5 Amplitude 0.374 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 97.8 35.8 Search (1024X32) 0.369 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.5 11.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 28.6 20.7 Inc. seg. avg. 0.661 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.394 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 132.0 el 33.1 pa -29.7 l: az 139.8 el 48.9 pa -31.4 u,v (fr/asec) -639.018 1480.396 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bl.3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bl.W.265.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

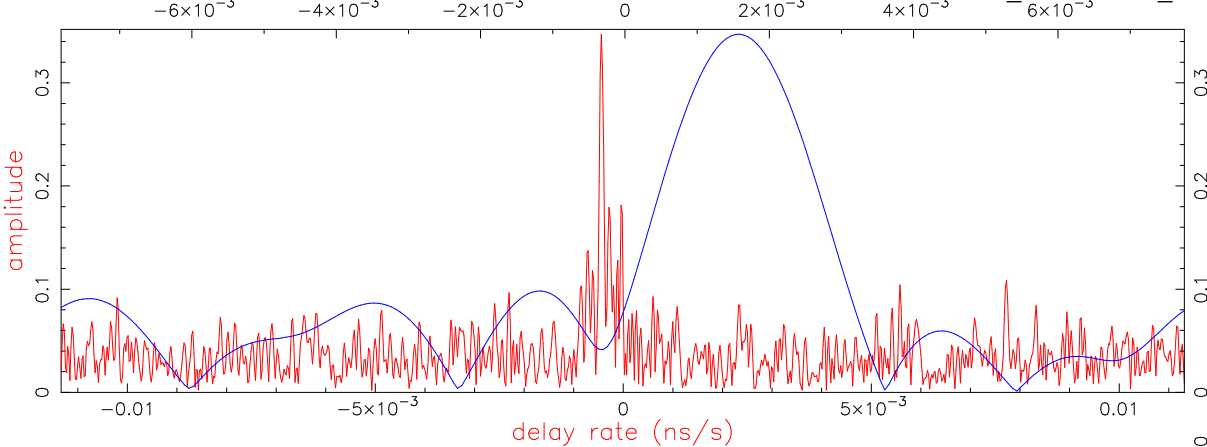
aux01

3C273.3MP2MB, No0707, bl

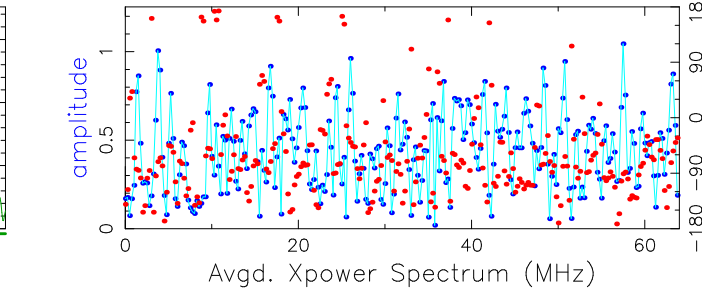
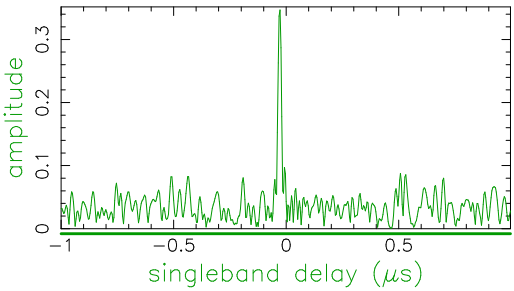
VLBA_BR - VLBA_LA, fgroup W, pol RL

multiband delay (μ s)

Fringe quality 9

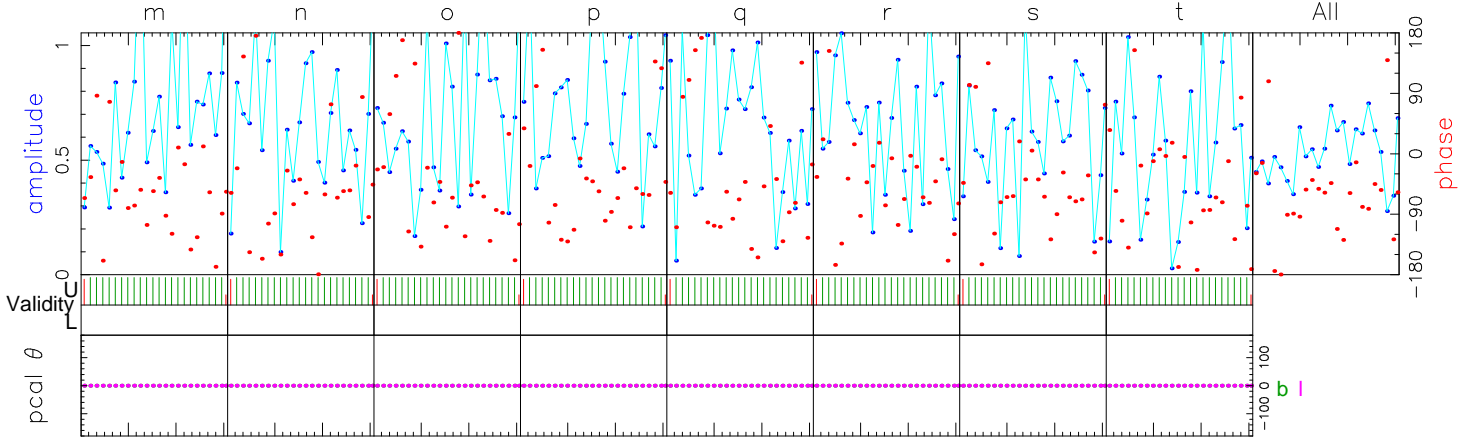


SNR 12.9
 Int time 178.965
 Amp 0.352
 Phase -72.1
 PFD 2.0e-29
 Delays (us)
 SBD -0.028756
 MBD 0.001531
 Fringe rate (Hz)
 -0.037673
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.51
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:180007
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 24 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-62.7	-85.0	-83.0	-66.9	-98.5	-55.7	-65.6	-67.7	Phase	-72.1
	0.5	0.3	0.4	0.4	0.3	0.4	0.3	0.3	Ampl.	0.3
	249.3	249.4	249.6	249.5	251.1	249.8	249.7	348.4	Sbd box	249.6
U/L	351/0	351/0	351/0	351/0	351/0	351/0	351/0	351/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
l	0	0	0	0	0	0	0	0	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-4.38658787900E+03	Apriori delay (usec)	-4.38655815967E+03	Resid mbdelay (usec)	1.53067E-03	+/-	8.4E-05
Sband delay (usec)	-4.38658691592E+03	Apriori clock (usec)	1.2923018E+01	Resid sbdelay (usec)	-2.87562E-02	+/-	6.7E-04
Phase delay (usec)	-4.38655816199E+03	Apriori clockrate (us/s)	8.1044199E-07	Resid phdelay (usec)	-2.32525E-06	+/-	2.9E-07
Delay rate (us/s)	1.13726384419E-01	Apriori rate (us/s)	1.13726821769E-01	Resid rate (us/s)	-4.37350E-07	+/-	2.8E-09
Total phase (deg)		Apriori accel (us/s/s)	2.39977823532E-05	Resid phase (deg)	-72.1	+/-	8.9

ph/seg (deg)	65.0	Theor.	21.8	Amplitude	0.352 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	61.4	Search (1024X32)	0.339	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	15.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	17.9	Inc. seg. avg.	0.494	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011	
		Inc. frq. avg.	0.348	Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 132.0 el 33.1 pa -29.7 l: az 139.8 el 48.9 pa -31.4 u,v (fr/asec) -639.018 1480.396 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bl..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bl.W.271.3MP2MB

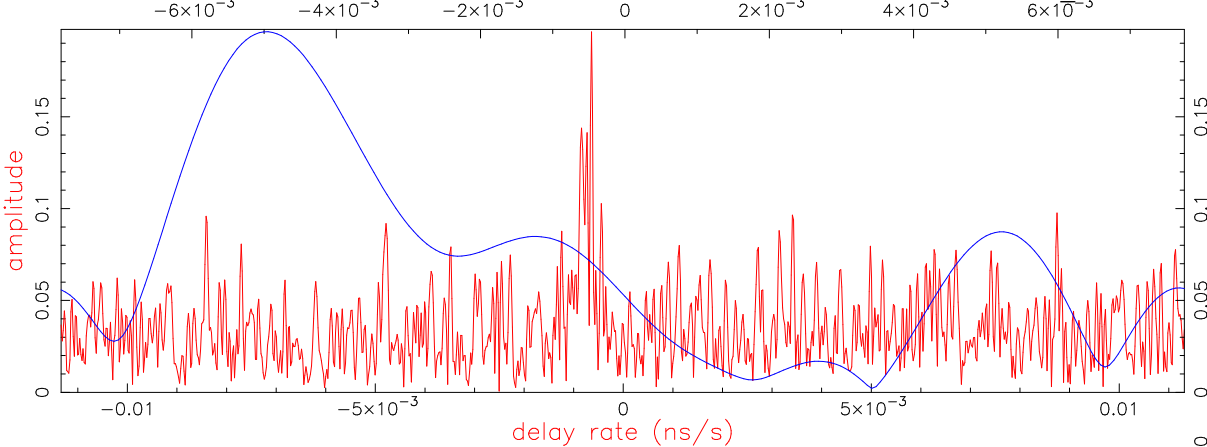
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bL

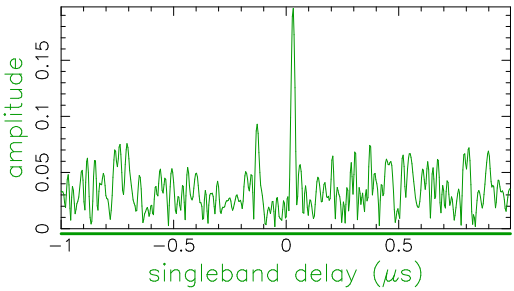
VLBA_BR - JCMT, fgroup W, pol LL

multiband delay (μ s)

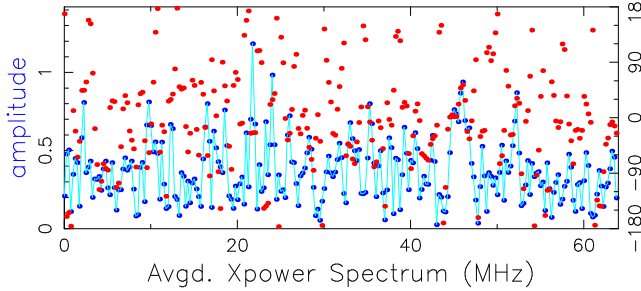


Fringe quality 9

SNR 7.2
 Int time 179.970
 Amp 0.198
 Phase 42.4
 PFD 7.1e-05
 Delays (us)
 SBD 0.030216
 MBD -0.005015
 Fringe rate (Hz)
 -0.056058
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

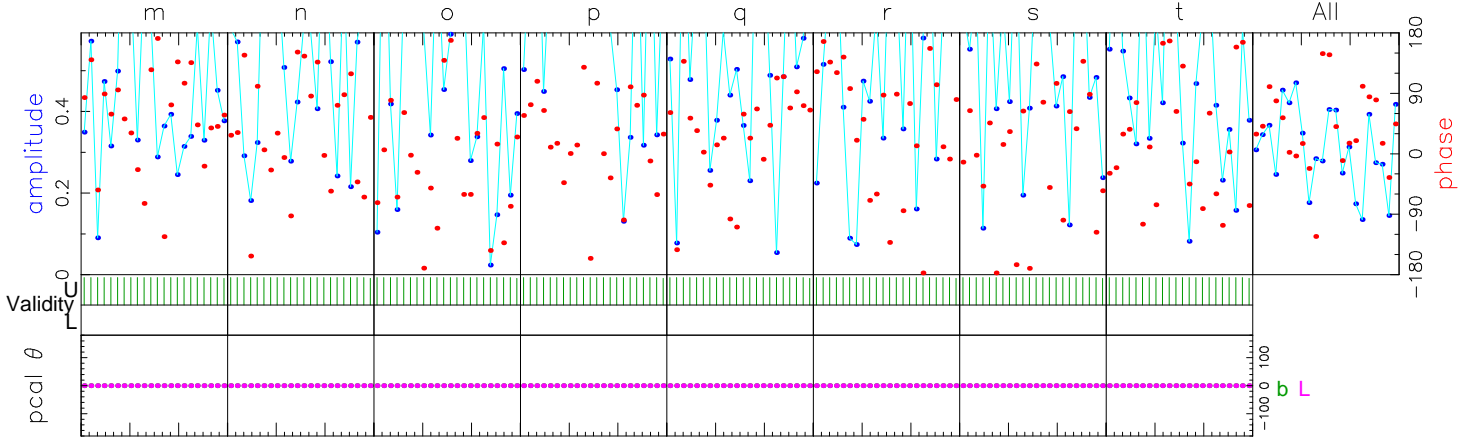


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175916
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	66.3	27.5	-6.8	33.8	50.6	108.6	62.2	-22.3	Phase	42.4
	0.2	0.2	0.2	0.4	0.3	0.2	0.1	0.1	Ampl.	0.2
	262.5	263.7	59.0	264.9	264.1	61.2	398.3	480.3	Sbd box	264.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
b:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
L	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD)	5.93784728202E+03	Apriori delay (usec)	5.93782104725E+03	Resid mbdelay (usec)	-5.01522E-03	+/-	1.5E-04
Sband delay (usec)	5.93785126300E+03	Apriori clock (usec)	4.8416824E+00	Resid sbdelay (usec)	3.02157E-02	+/-	1.2E-03
Phase delay (usec)	5.93782104861E+03	Apriori clockrate (us/s)	9.1252787E-07	Resid phdelay (usec)	1.36793E-06	+/-	5.1E-07
Delay rate (us/s)	-7.62639284799E-01	Apriori rate (us/s)	-7.62638634021E-01	Resid rate (us/s)	-6.50778E-07	+/-	4.9E-09
Total phase (deg)	45.9	Apriori accel (us/s/s)	-3.00185132179E-05	Resid phase (deg)	42.4	+/-	15.8

ph/seg (deg)	RMS 60.5	Theor. 37.1	Amplitude Search (1024X32)	0.189	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	76.2	64.8	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	45.3	22.4	Inc. seg. avg.	0.258	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	dr window (ns/s)	-0.011	0.011
amp/frq (%)	52.4	39.1	Inc. frq. avg.	0.214	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 132.0 el 33.1 pa -29.7 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 4355.669 3505.687 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//bL..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//bL.W.55.3MP2MB

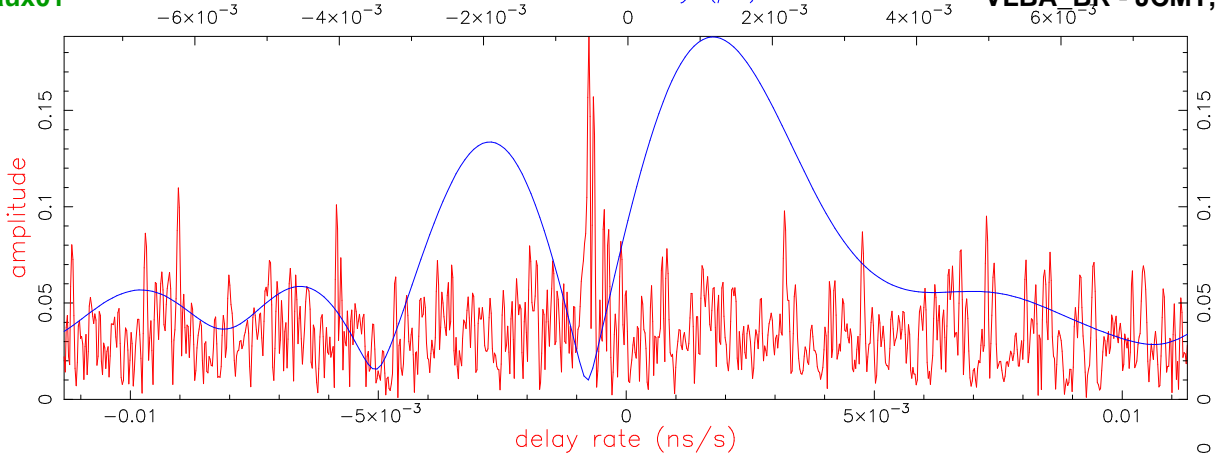
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bL

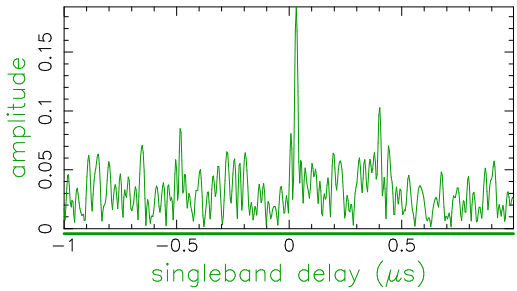
VLBA_BR - JCMT, fgroup W, pol RR

multiband delay (μ s)

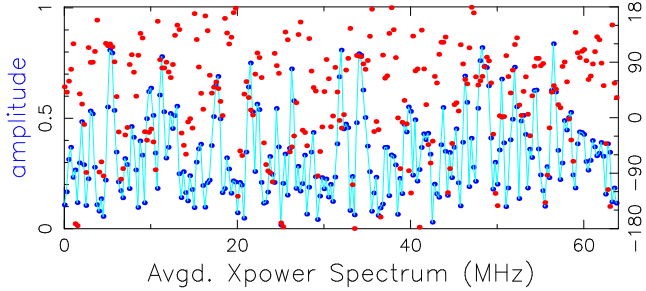


Fringe quality 0

SNR 6.9
 Int time 179.970
 Amp 0.188
 Phase 51.7
 PFD 7.7e-04
 Delays (us)
 SBD 0.031227
 MBD 0.001177
 Fringe rate (Hz)
 -0.064392
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

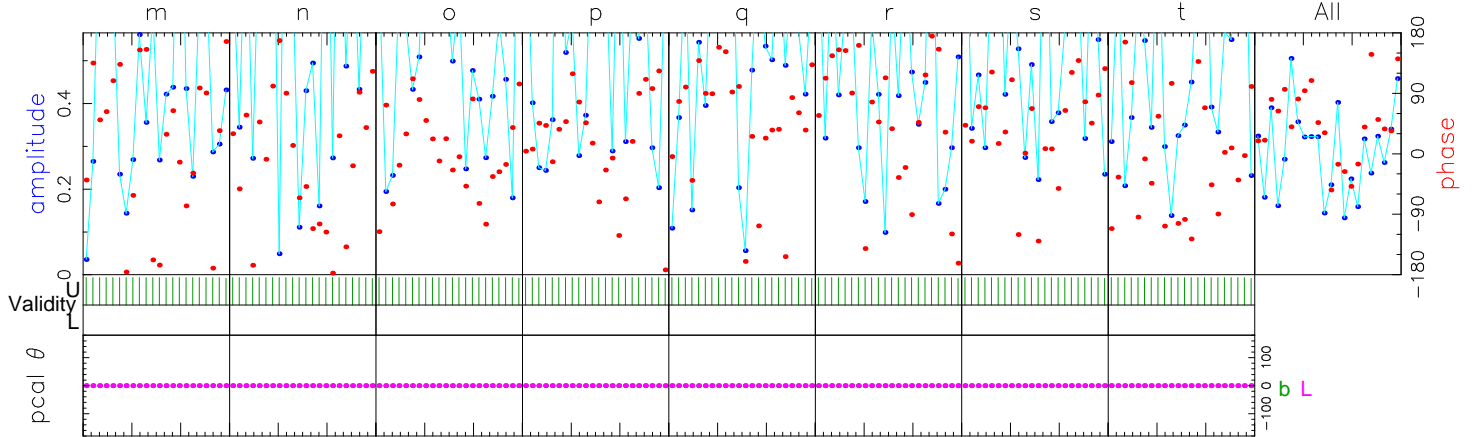


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175918
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	89.4	37.5	12.1	29.3	93.2	111.0	60.9	-16.0	Phase	51.7
	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.2	Ampl.	0.2
	262.3	369.1	265.7	266.3	163.6	354.9	264.4	262.5	Sbd box	265.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
b:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
L	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	5.93785347390E+03		Apriori delay (usec)		5.93782104725E+03		Resid mbdelay (usec)		1.17666E-03	+/- 1.6E-04
Sband delay (usec)	5.93785227425E+03		Apriori clock (usec)		4.8416824E+00		Resid sbdelay (usec)		3.12270E-02	+/- 1.2E-03
Phase delay (usec)	5.93782104891E+03		Apriori clockrate (us/s)		9.1252787E-07		Resid phdelay (usec)		1.66707E-06	+/- 5.4E-07
Delay rate (us/s)	-7.62639381547E-01		Apriori rate (us/s)		-7.62638634021E-01		Resid rate (us/s)		-7.47525E-07	+/- 5.1E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.00185132179E-05		Resid phase (deg)		51.7	+/- 16.6

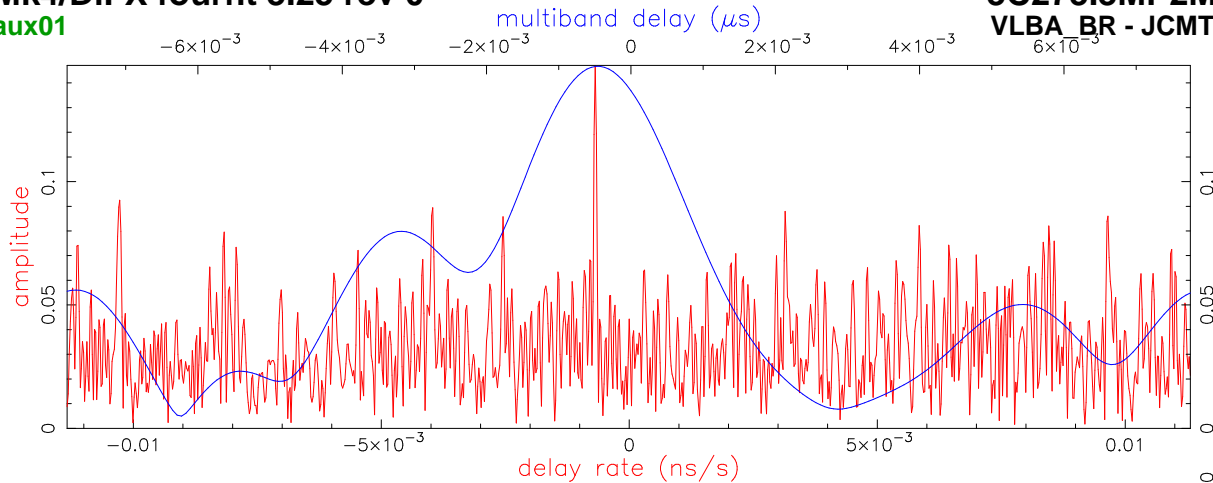
ph/seg (deg) 54.6 38.9 Search (1024X32) 0.183 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 75.3 68.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 47.6 23.5 Inc. seg. avg. 0.235 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 42.2 41.0 Inc. frq. avg. 0.220 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 b: az 132.0 el 33.1 pa -29.7 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 4355.669 3505.687 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bL..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bL.W.62.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

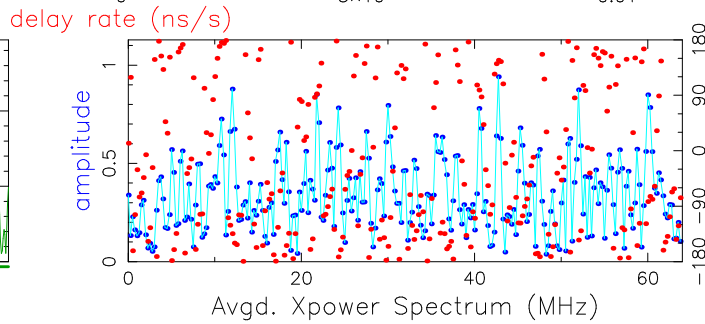
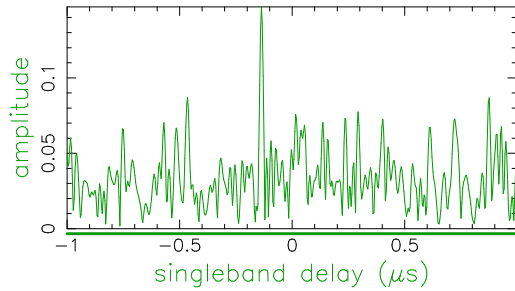
3C273.3MP2MB, No0707, bL

VLBA_BR - JCMT, fgroup W, pol LR



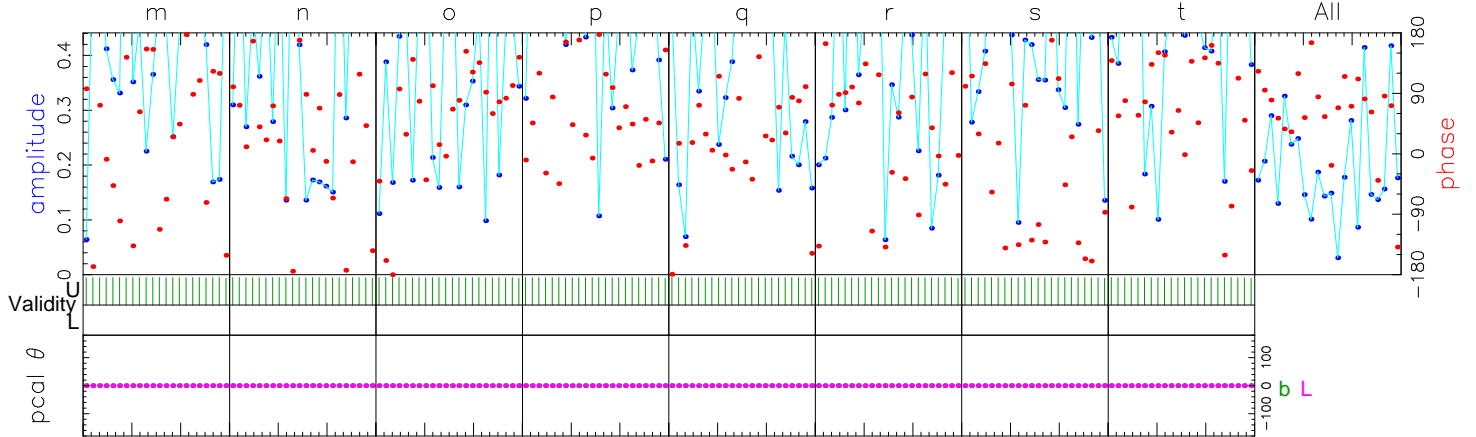
Fringe quality 0

SNR 5.4
 Int time 179.970
 Amp 0.147
 Phase 75.0
 PFD 1.0e+00
 Delays (us)
 SBD -0.136288
 MBD -0.000433
 Fringe rate (Hz)
 -0.059358
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175920
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	0	0	0	0	0	0	0	0		
L	0	0	0	0	0	0	0	0		
b:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
L	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
L	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR		

Group delay (usec) (SBD)	5.93767998939E+03	Apriori delay (usec)	5.93782104725E+03	Resid mbdelay (usec)	-4.32852E-04	+/-	2.0E-04
Sband delay (usec)	5.93768475925E+03	Apriori clock (usec)	4.8416824E+00	Resid sbdelay (usec)	-1.36288E-01	+/-	1.6E-03
Phase delay (usec)	5.93782104966E+03	Apriori clockrate (us/s)	9.1252787E-07	Resid phdelay (usec)	2.41846E-06	+/-	6.9E-07
Delay rate (us/s)	-7.62639323113E-01	Apriori rate (us/s)	-7.62638634021E-01	Resid rate (us/s)	-6.89092E-07	+/-	6.6E-09
Total phase (deg)	78.5	Apriori accel (us/s/s)	-3.00185132179E-05	Resid phase (deg)	75.0	+/-	21.3

ph/seg (deg)	53.6	Theor.	49.9	Amplitude	0.147 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	74.3		87.0	Search (1024X32)	0.145	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	48.3		30.1	Inc. seg. avg.	0.144	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	47.5		52.5	Inc. frq. avg.	0.151	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	ion window (TEC)	0.00	0.00

b: az 132.0 el 33.1 pa -29.7 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 4355.669 3505.687 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bL..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bL.W.66.3MP2MB

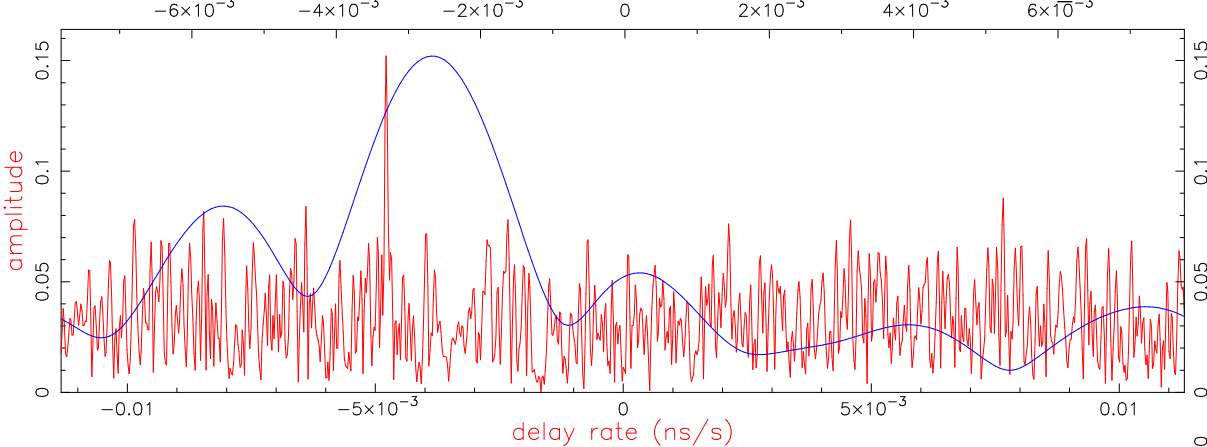
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bL

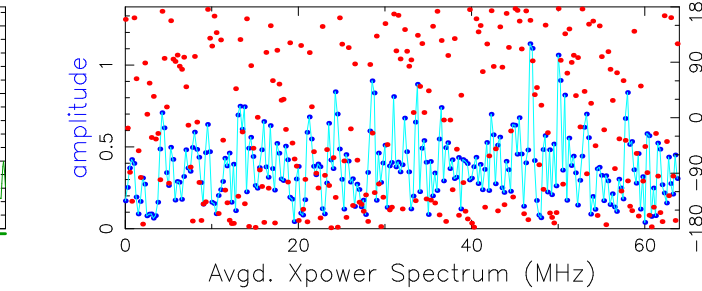
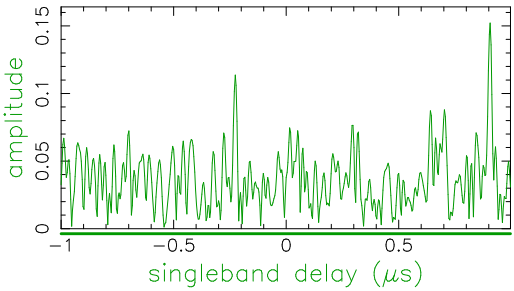
VLBA_BR - JCMT, fgroup W, pol RL

multiband delay (μ s)



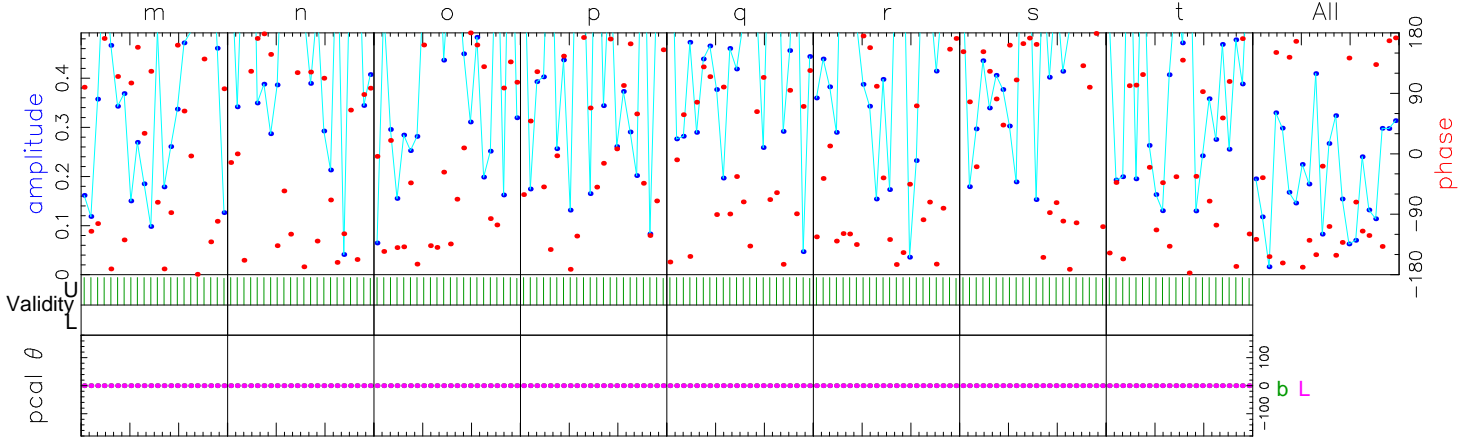
Fringe quality 0

SNR 5.6
 Int time 179.970
 Amp 0.164
 Phase -156.2
 PFD 9.4e-01
 Delays (us)
 SBD 0.905668
 MBD -0.002668
 Fringe rate (Hz)
 -0.411898
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175922
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-168.9	179.2	-146.2	-117.8	-115.7	-134.2	176.6	178.1	Phase	-156.2
	0.2	0.2	0.2	0.1	0.1	0.3	0.2	0.1	Ampl.	0.2
	474.8	139.8	30.5	50.8	200.0	489.0	397.2	421.2	Sbd box	488.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
b:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
L	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD)	5.93872462946E+03	Apriori delay (usec)	5.93782104725E+03	Resid mbdelay (usec)	-2.66779E-03	+/-	1.9E-04
Sband delay (usec)	5.93872671575E+03	Apriori clock (usec)	4.8416824E+00	Resid sbdelay (usec)	9.05668E-01	+/-	1.5E-03
Phase delay (usec)	5.93782104221E+03	Apriori clockrate (us/s)	9.1252787E-07	Resid phdelay (usec)	-5.03775E-06	+/-	6.6E-07
Delay rate (us/s)	-7.62643415744E-01	Apriori rate (us/s)	-7.62638634021E-01	Resid rate (us/s)	-4.78172E-06	+/-	6.4E-09
Total phase (deg)	-152.7	Apriori accel (us/s/s)	-3.00185132179E-05	Resid phase (deg)	-156.2	+/-	20.5

ph/seg (deg)	55.4	RMS	48.1	Theor.	55.4	Amplitude	0.164 +/- 0.029	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	74.9	Search (1024X32)	0.148	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	31.3	Inc. seg. avg.	0.161	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	41.4	Inc. frq. avg.	0.160	Data rate(Mb/s): 2048								

b: az 132.0 el 33.1 pa -29.7 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 4355.669 3505.687 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bL..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bL.W.76.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

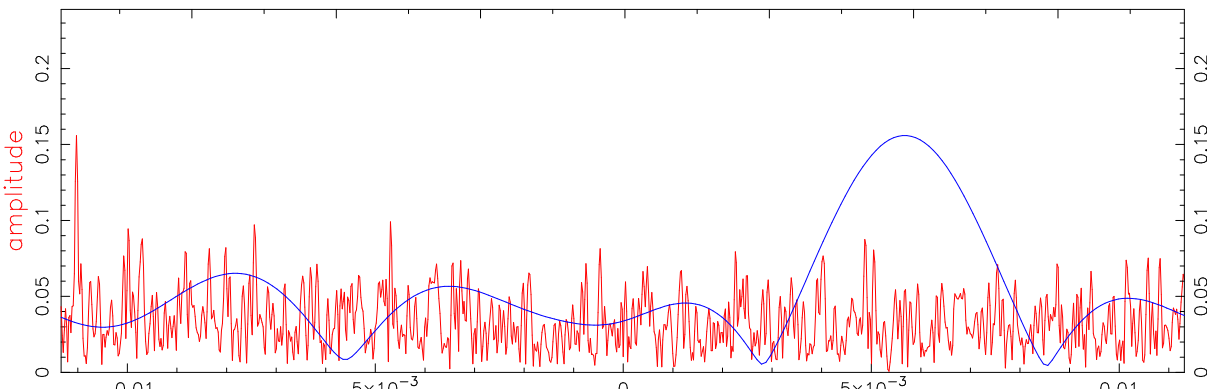
aux01

3C273.3MP2MB, No0707, bm

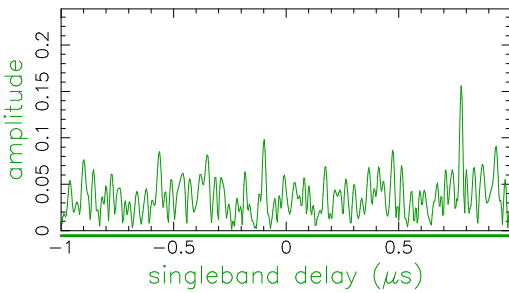
VLBA_BR - VLBA_MK, fgroup W, pol LL

multiband delay (μ s)

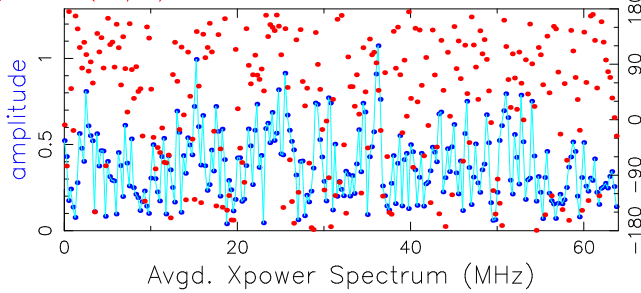
Fringe quality 0



SNR 5.7
 Int time 179.970
 Amp 0.239
 Phase 20.1
 PFD 7.2e-01
 Delays (us)
 SBD 0.777707
 MBD 0.003901
 Fringe rate (Hz) -0.951203
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

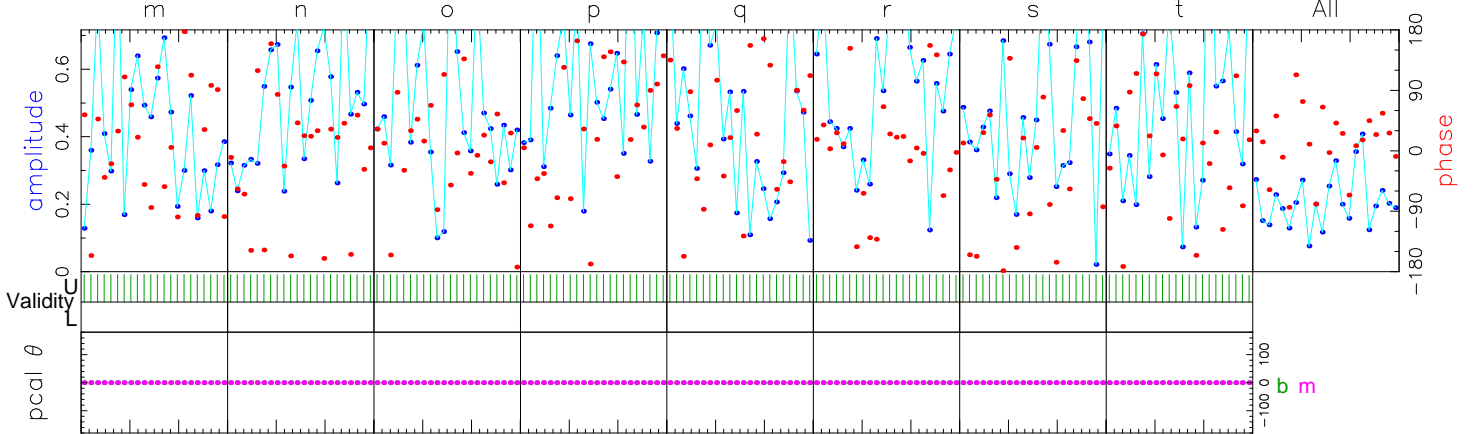


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175916
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	20.1	33.2	8.8	56.1	28.7	7.7	51.2	12.9	Phase	20.1
	0.2	0.2	0.4	0.1	0.1	0.5	0.1	0.2	Ampl.	0.2
	78.7	506.7	455.4	124.9	363.8	456.3	303.1	479.0	Sbd box	456.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
m	0	0	0	0	0	0	0	0	PC freqs	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	5.93044352517E+03	Apriori delay (usec)	5.92965837429E+03	Resid mbdelay (usec)	3.90088E-03	+/-	1.9E-04
Sband delay (usec)	5.93043608129E+03	Apriori clock (usec)	4.0793896E+00	Resid sbdelay (usec)	7.77707E-01	+/-	1.5E-03
Phase delay (usec)	5.92965837493E+03	Apriori clockrate (us/s)	5.9094092E-07	Resid phdelay (usec)	6.49436E-07	+/-	6.5E-07
Delay rate (us/s)	-7.62608105537E-01	Apriori rate (us/s)	-7.62597063018E-01	Resid rate (us/s)	-1.10425E-05	+/-	6.2E-09
Total phase (deg)	150.1	Apriori accel (us/s/s)	-2.99776787933E-05	Resid phase (deg)	20.1	+/-	20.0

ph/seg (deg)	RMS 49.5	Theor. 46.9	Amplitude Search (1024X32)	0.239 +/- 0.042	0.151	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	61.8	81.9	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	21.7	28.3	Inc. seg. avg.	0.242	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	53.6	49.4	Inc. frq. avg.	0.221	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00	

b: az 132.0 el 33.1 pa -29.7 m: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 4355.450 3509.075 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//bm..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//bm.W.53.3MP2MB

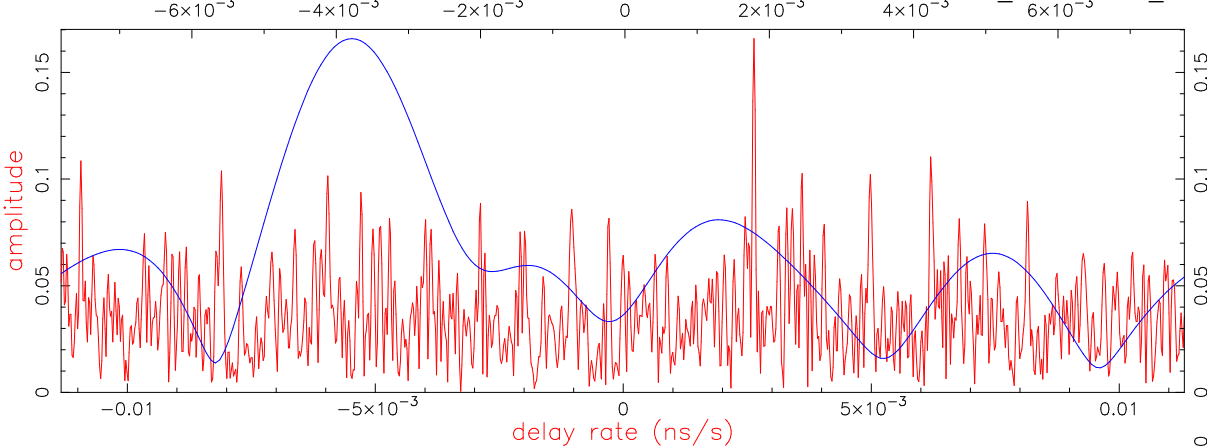
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bm

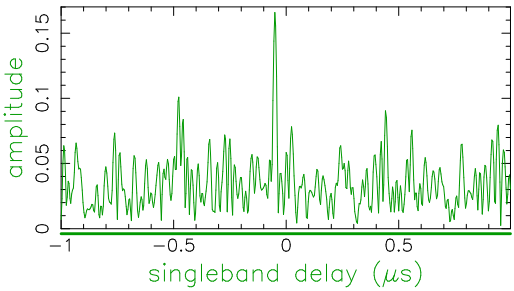
VLBA_BR - VLBA_MK, fgroup W, pol RR

multiband delay (μ s)

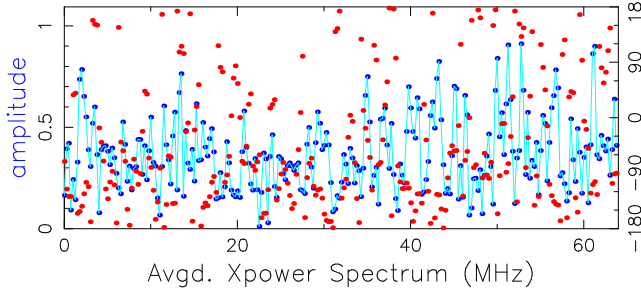


Fringe quality 0

SNR 6.1
 Int time 179.970
 Amp 0.170
 Phase 72.4
 PFD 1.3e-01
 Delays (us)
 SBD -0.050046
 MBD -0.003773
 Fringe rate (Hz)
 0.226370
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

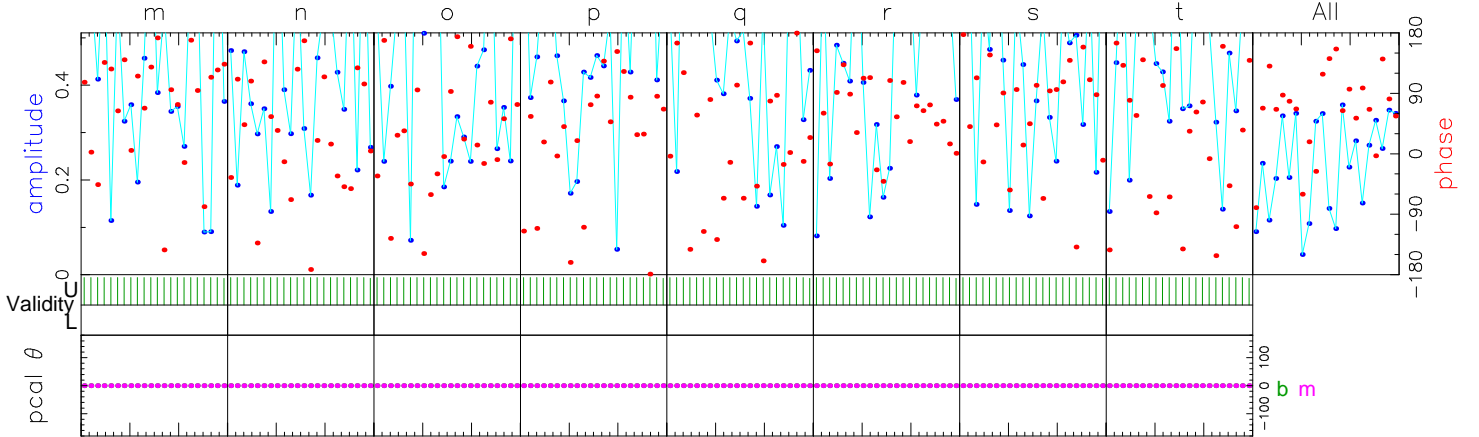


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175918
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	110.7	43.8	32.3	76.3	62.5	57.9	80.7	112.5	Phase	72.4
	0.3	0.1	0.2	0.2	0.0	0.4	0.2	0.1	Ampl.	0.2
	504.8	41.3	338.4	193.9	202.9	244.3	256.6	400.2	Sbd box	244.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
m	0	0	0	0	0	0	0	0	PC freqs	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	5.92960772594E+03	Apriori delay (usec)	5.92965837429E+03	Resid mbdelay (usec)	-3.77334E-03	+/-	1.8E-04
Sband delay (usec)	5.92960832804E+03	Apriori clock (usec)	4.0793896E+00	Resid sbdelay (usec)	-5.00463E-02	+/-	1.4E-03
Phase delay (usec)	5.92965837662E+03	Apriori clockrate (us/s)	5.9094092E-07	Resid phdelay (usec)	2.33311E-06	+/-	6.1E-07
Delay rate (us/s)	-7.62594435089E-01	Apriori rate (us/s)	-7.62597063018E-01	Resid rate (us/s)	2.62793E-06	+/-	5.8E-09
Total phase (deg)	202.3	Apriori accel (us/s/s)	-2.99776787933E-05	Resid phase (deg)	72.4	+/-	18.8

ph/seg (deg)	61.7	Theor.	44.0	Amplitude	0.170 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	72.2	Search (1024X32)	0.160	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	31.3	Inc. seg. avg.	0.185	Inc. frq. avg.	0.171	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	57.0	Inc. frq. avg.	0.171			Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 132.0 el 33.1 pa -29.7 m: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 4355.450 3509.075 simultaneous interpolator

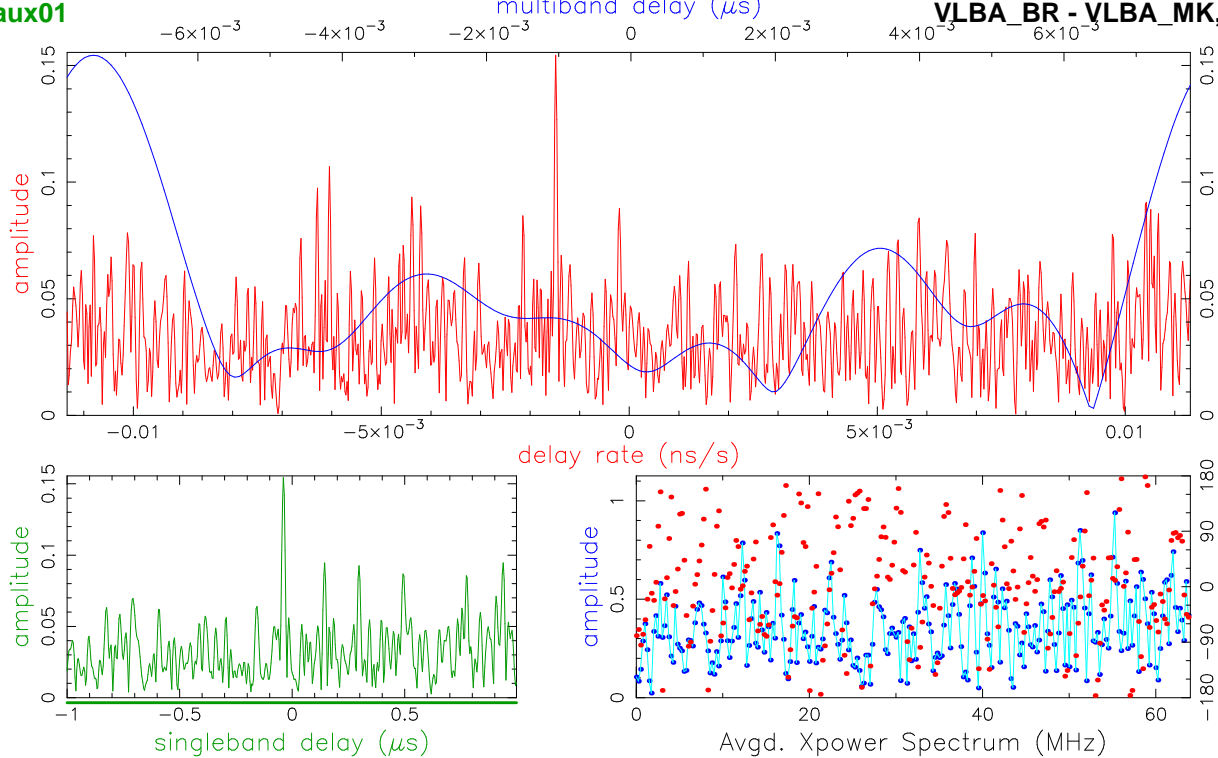
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bm..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bm.W.61.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

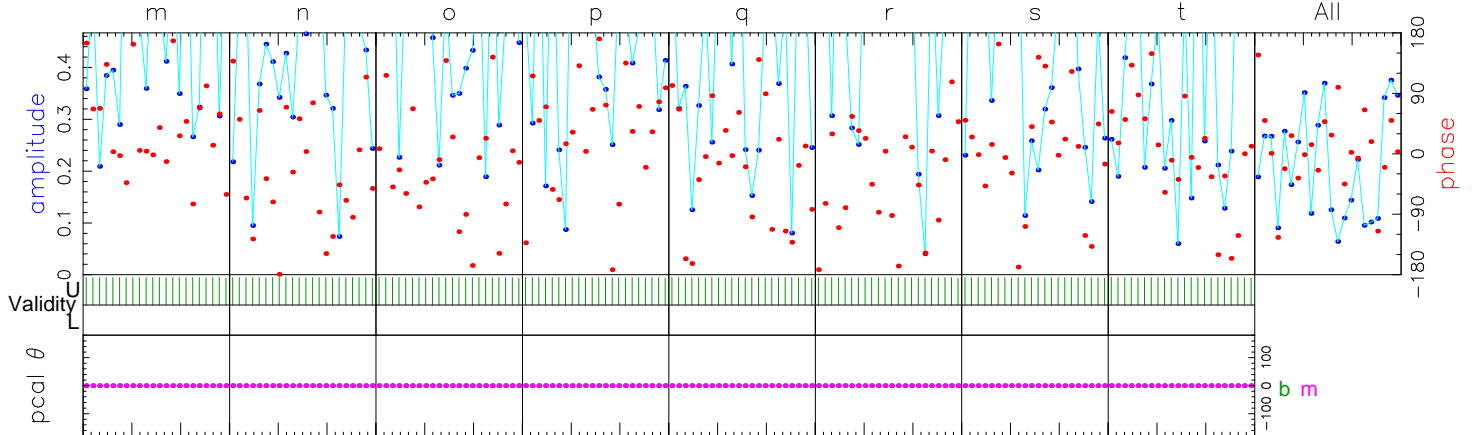
3C273.3MP2MB, No0707, bm

VLBA_BR - VLBA_MK, fgroup W, pol LR



Fringe quality 0
 SNR 5.7
 Int time 179.970
 Amp 0.156
 Phase 7.9
 PFD 8.3e-01
 Delays (us)
 SBD -0.038704
 MBD -0.007441
 Fringe rate (Hz)
 -0.127692
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175920
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	33.6	-29.9	-32.1	45.9	14.4	-26.9	19.5	15.9	Phase	7.9	
	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2	
	158.6	503.4	294.7	237.6	339.9	152.4	494.2	72.8	Sbd box	247.1	
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used		
b	0	0	0	0	0	0	0	0	PC freqs		
m	0	0	0	0	0	0	0	0	PC freqs		
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC		
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
m	1000	1000	1000	1000	1000	1000	1000	1000			
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks		
									Tracks		
Group delay (usec) (SBD)	5.92961968371E+03		Apriori delay (usec)		5.92965837429E+03		Resid mbdelay (usec)		-7.44058E-03	+/- 1.9E-04	
Sband delay (usec)	5.92961966979E+03		Apriori clock (usec)		4.0793896E+00		Resid sbdelay (usec)		-3.87045E-02	+/- 1.5E-03	
Phase delay (usec)	5.92965837454E+03		Apriori clockrate (us/s)		5.9094092E-07		Resid phdelay (usec)		2.54830E-07	+/- 6.5E-07	
Delay rate (us/s)	-7.62598545392E-01		Apriori rate (us/s)		-7.62597063018E-01		Resid rate (us/s)		-1.48237E-06	+/- 6.3E-09	
Total phase (deg)	137.8		Apriori accel (us/s/s)		-2.99776787933E-05		Resid phase (deg)		7.9	+/- 20.2	
	RMS	Theor.	Amplitude	0.156 +/- 0.027		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	59.4	47.4	Search (1024X32)	0.153		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000	
amp/seg (%)	76.2	82.7	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	33.1	28.6	Inc. seg. avg.	0.160		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011 0.011	
amp/frq (%)	23.4	49.9	Inc. frq. avg.	0.157		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
b: az 132.0 el 33.1 pa -29.7		m: az 93.6 el 15.4 pa -70.0		u,v (fr/asec) 4355.450 3509.075						simultaneous interpolator	
Control file: cf_1234_gmva		Input file: /Exps/c241b/v2/3mm/1234/No0707/bm..3MP2MB		Output file: /Exps/c241b/v2/3mm/1234/No0707/bm.W.65.3MP2MB							

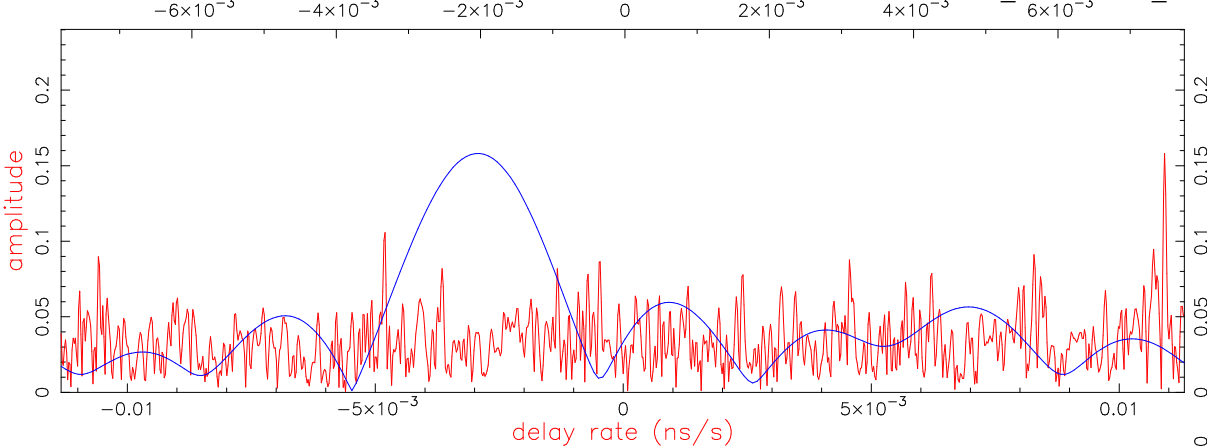
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bm

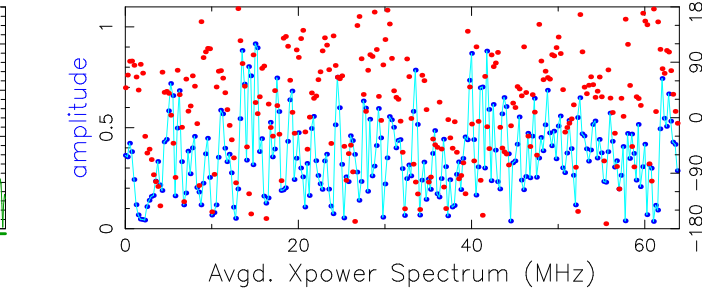
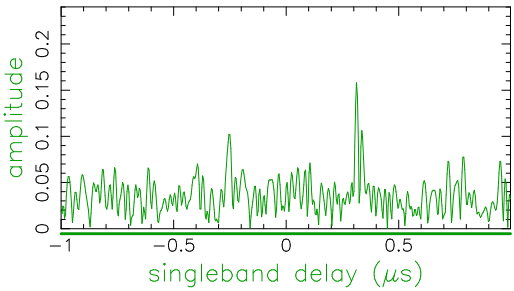
VLBA_BR - VLBA_MK, fgroup W, pol RL

multiband delay (μ s)



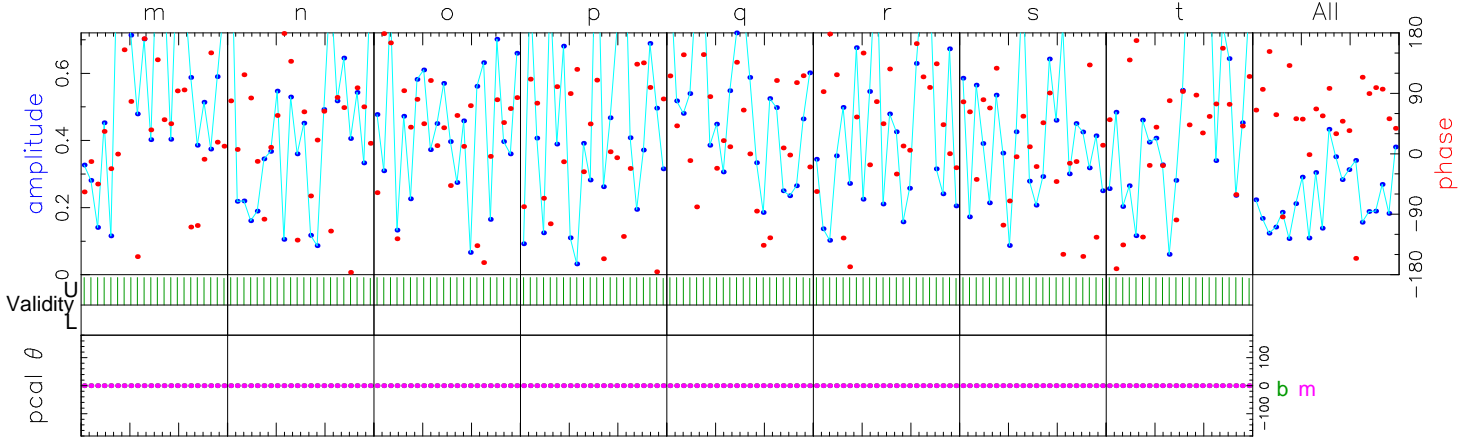
Fringe quality 0

SNR 5.8
 Int time 179.970
 Amp 0.240
 Phase 69.0
 PFD 5.5e-01
 Delays (us)
 SBD 0.312917
 MBD -0.002018
 Fringe rate (Hz) 0.941911
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build 2024:361:053129
 2025:041:175922
 2024:113:095956
 RA & Dec (J2000) 12h29m06.699742s +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	66.4	70.4	71.7	85.4	62.3	80.3	37.1	71.6	Phase	69.0
	0.3	0.3	0.3	0.1	0.2	0.3	0.2	0.4	Ampl.	0.2
	447.9	239.6	161.4	222.4	61.8	187.0	31.5	36.9	Sbd box	337.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
m	0	0	0	0	0	0	0	0	PC freqs	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	5.92996885591E+03	Apriori delay (usec)	5.92965837429E+03	Resid mbdelay (usec)	-2.01838E-03	+/-	1.9E-04
Sband delay (usec)	5.92997129154E+03	Apriori clock (usec)	4.0793896E+00	Resid sbdelay (usec)	3.12917E-01	+/-	1.5E-03
Phase delay (usec)	5.92965837651E+03	Apriori clockrate (us/s)	5.9094092E-07	Resid phdelay (usec)	2.22388E-06	+/-	6.4E-07
Delay rate (us/s)	-7.62586128362E-01	Apriori rate (us/s)	-7.62597063018E-01	Resid rate (us/s)	1.09347E-05	+/-	6.1E-09
Total phase (deg)	198.9	Apriori accel (us/s/s)	-2.99776787933E-05	Resid phase (deg)	69.0	+/-	19.7

ph/seg (deg)	57.0	Theor.	46.3	Amplitude	0.240 +/- 0.041	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	74.1		80.8	Search (1024X32)	0.155	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	15.7		27.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	31.3		48.7	Inc. seg. avg.	0.265	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.219	Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 132.0 el 33.1 pa -29.7 m: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 4355.450 3509.075 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bm..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bm.W.75.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

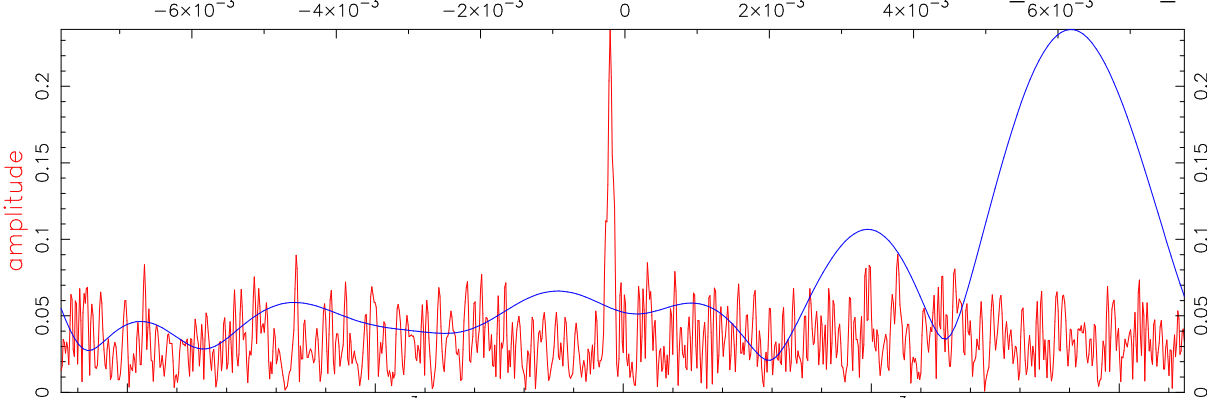
aux01

3C273.3MP2MB, No0707, bn

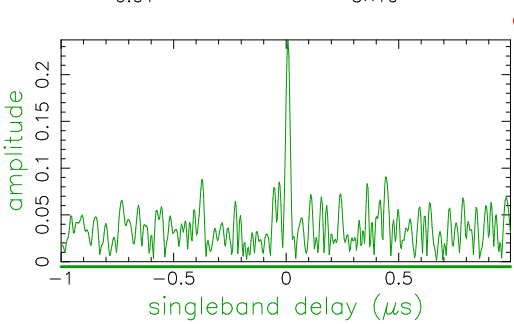
VLBA_BR - VLBA_NL, fgroup W, pol LL

multiband delay (μ s)

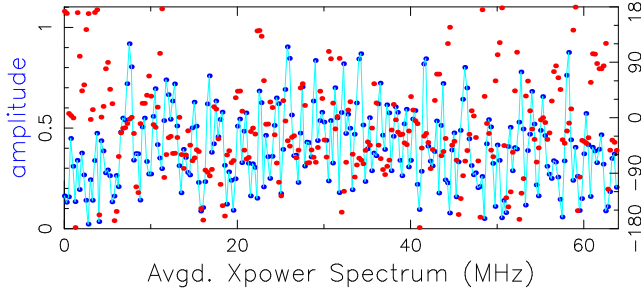
Fringe quality 9



SNR 8.7
 Int time 178.845
 Amp 0.237
 Phase -14.1
 PFD 7.7e-10
 Delays (us)
 SBD 0.007651
 MBD 0.006180
 Fringe rate (Hz)
 -0.023366
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

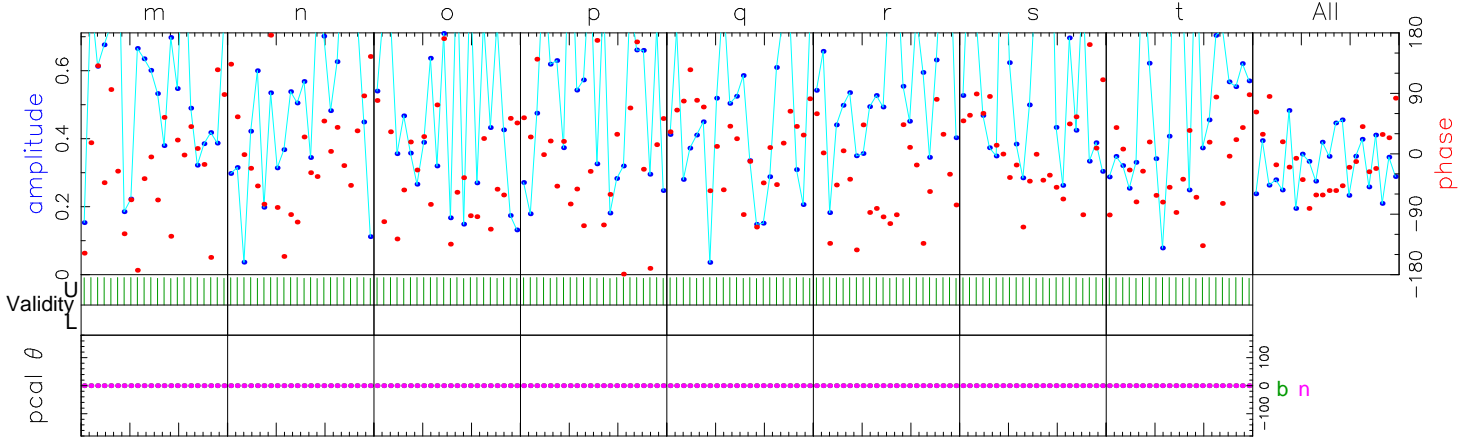


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175918
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	0	0	0	0	0	0	0	0		
n	0	0	0	0	0	0	0	0		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD)	-4.39839486993E+03	Apriori delay (usec)	-4.39840104949E+03	Resid mbdelay (usec)	6.17956E-03	+/-	1.3E-04
Sband delay (usec)	-4.39839339824E+03	Apriori clock (usec)	4.9100037E+00	Resid sbdelay (usec)	7.65125E-03	+/-	9.9E-04
Phase delay (usec)	-4.39840104994E+03	Apriori clockrate (us/s)	2.7918098E-07	Resid phdelay (usec)	-4.55773E-07	+/-	4.3E-07
Delay rate (us/s)	4.38479072843E-01	Apriori rate (us/s)	4.38479344100E-01	Resid rate (us/s)	-2.71257E-07	+/-	4.1E-09
Total phase (deg)	-159.2	Apriori accel (us/s/s)	2.37110983363E-05	Resid phase (deg)	-14.1	+/-	13.2

ph/seg (deg)	46.9	Theor.	31.0	Amplitude	0.237 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	51.3		54.1	Search (1024X32)	0.232	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	26.8		18.7	Inc. seg. avg.	0.286	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	24.9		32.6	Inc. frq. avg.	0.245	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

b: az 132.0 el 33.1 pa -29.7 n: az 164.0 el 49.1 pa -11.6 u,v (fr/asec) -2500.280 759.698 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bn..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bn.W.60.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

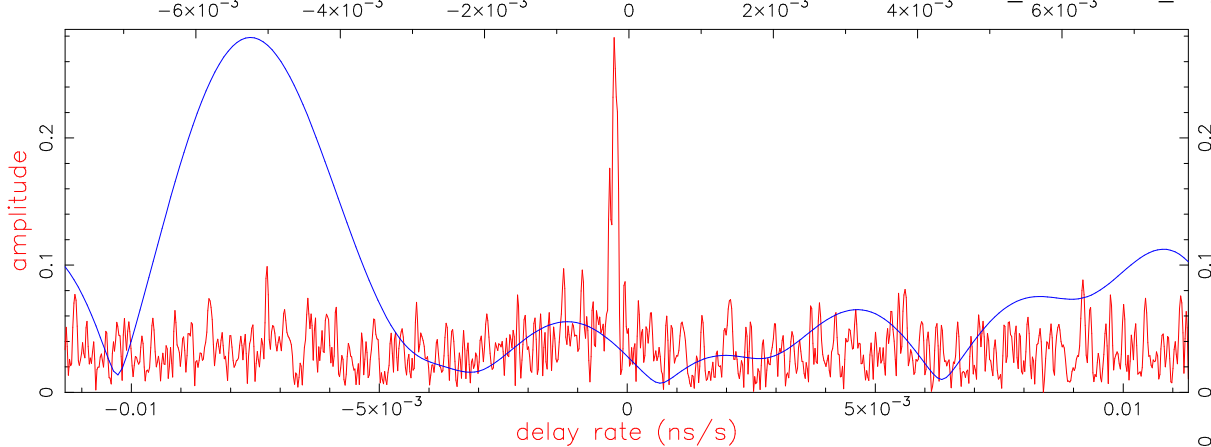
aux01

3C273.3MP2MB, No0707, bn

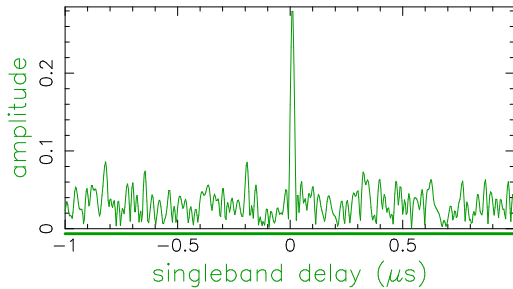
VLBA_BR - VLBA_NL, fgroup W, pol RR

multiband delay (μ s)

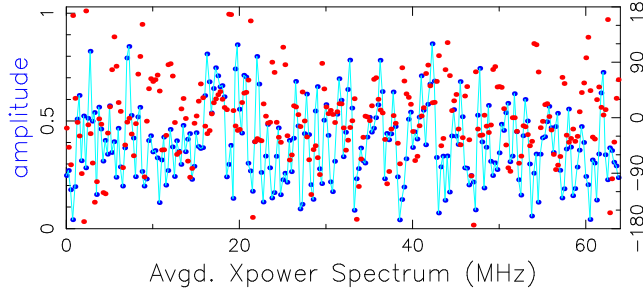
Fringe quality 9



SNR 10.4
 Int time 178.845
 Amp 0.285
 Phase 171.3
 PFD 3.9e-17
 Delays (us)
 SBD 0.009834
 MBD -0.005204
 Fringe rate (Hz)
 -0.023047
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

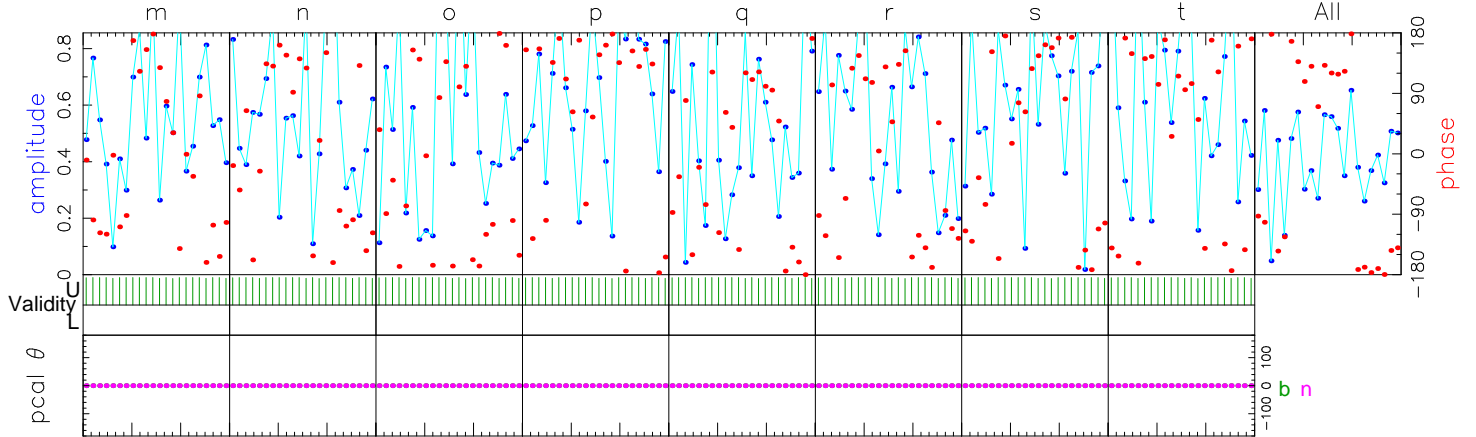


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175920
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-155.0	170.6	169.6	153.7	156.7	-174.2	-172.9	164.0	Phase	171.3
	0.2	0.2	0.3	0.5	0.2	0.3	0.3	0.4	Ampl.	0.3
	256.7	206.8	258.7	259.7	260.4	260.2	260.5	259.0	Sbd box	259.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
n	0	0	0	0	0	0	0	0	PC freqs	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD) -4.39839062846E+03 Apriori delay (usec) -4.39840104949E+03 Resid mbdelay (usec) -5.20397E-03 +/- 1.0E-04
 Sband delay (usec) -4.39839121574E+03 Apriori clock (usec) 4.9100037E+00 Resid sbdelay (usec) 9.83375E-03 +/- 8.3E-04
 Phase delay (usec) -4.39840104396E+03 Apriori clockrate (us/s) 2.7918098E-07 Resid phdelay (usec) 5.52490E-06 +/- 3.5E-07
 Delay rate (us/s) 4.38479076547E-01 Apriori rate (us/s) 4.38479344100E-01 Resid rate (us/s) -2.67553E-07 +/- 3.4E-09
 Total phase (deg) 26.3 Apriori accel (us/s/s) 2.37110983363E-05 Resid phase (deg) 171.3 +/- 11.0

RMS Theor. Amplitude 0.285 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 50.0 25.8 Search (1024X32) 0.275 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 67.4 45.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 19.0 15.5 Inc. seg. avg. 0.370 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 32.8 27.1 Inc. frq. avg. 0.279 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 132.0 el 33.1 pa -29.7 n: az 164.0 el 49.1 pa -11.6 u,v (fr/asec) -2500.280 759.698 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bn..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bn.W.67.3MP2MB

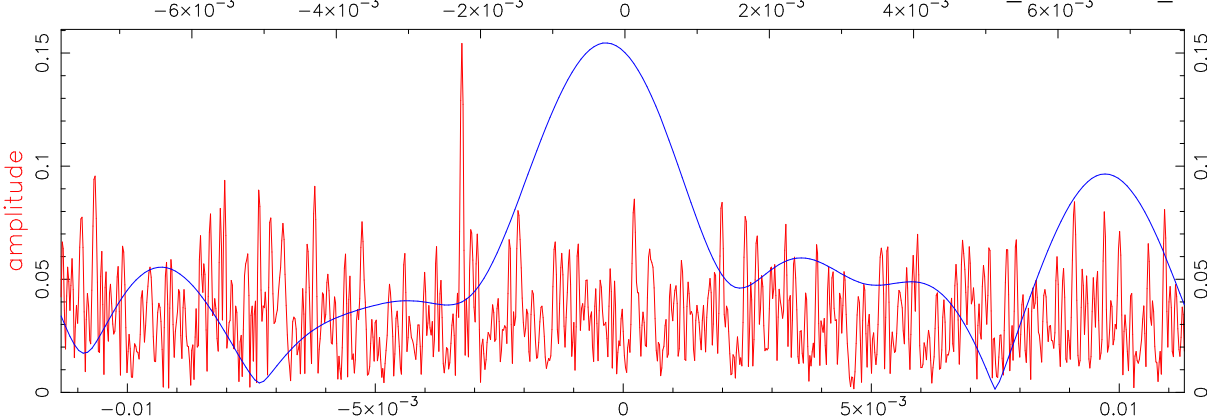
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bn

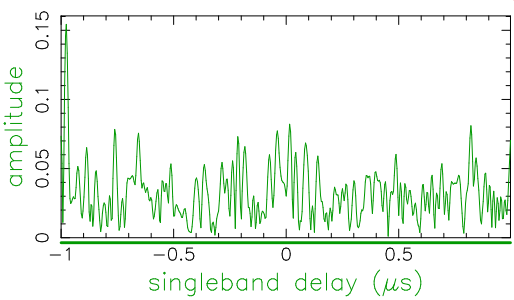
VLBA_BR - VLBA_NL, fgroup W, pol RL

multiband delay (μ s)

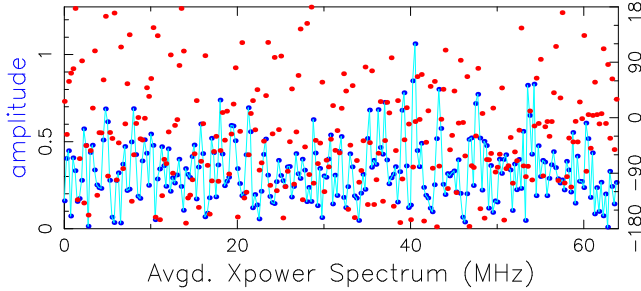


Fringe quality 0

SNR 5.7
 Int time 178.845
 Amp 0.160
 Phase -138.3
 PFD 8.2e-01
 Delays (us)
 SBD -0.977466
 MBD -0.000326
 Fringe rate (Hz)
 -0.280302
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

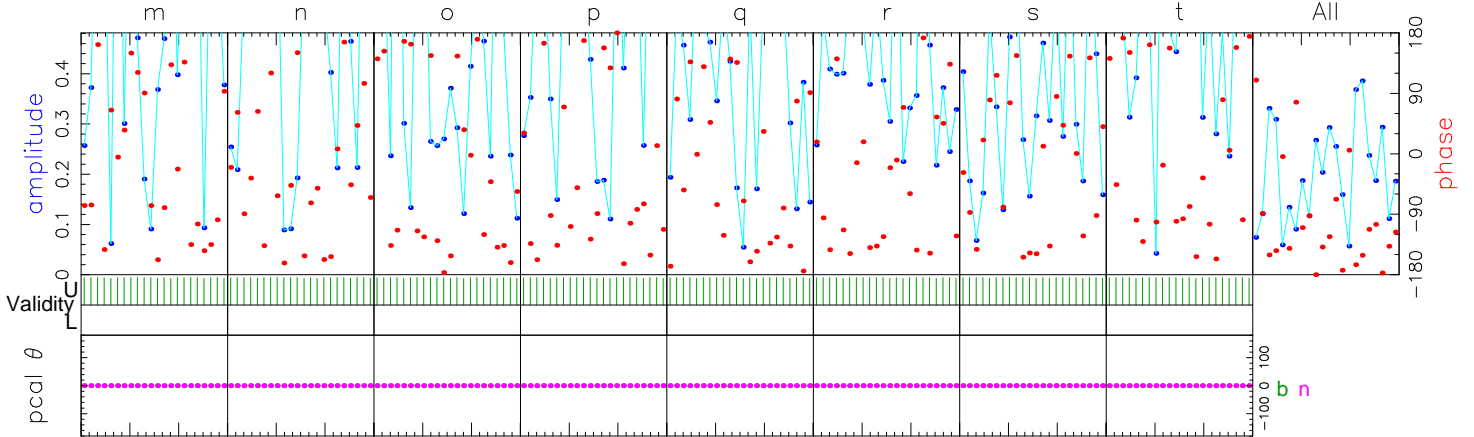


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175924
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-160.2	-100.1	-148.7	-126.0	-148.5	-120.9	118.8	-123.1	Phase	-138.3
	0.2	0.1	0.3	0.3	0.1	0.1	0.1	0.2	Ampl.	0.2
	475.7	130.7	7.0	6.6	386.8	64.3	498.7	6.1	Sbd box	6.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
n	0	0	0	0	0	0	0	0	PC freqs	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-4.39938575038E+03	Apriori delay (usec)	-4.39840104949E+03	Resid mbdelay (usec)	-3.25892E-04	+/-	1.9E-04
Sband delay (usec)	-4.39937851549E+03	Apriori clock (usec)	4.9100037E+00	Resid sbdelay (usec)	-9.77466E-01	+/-	1.5E-03
Phase delay (usec)	-4.39840105395E+03	Apriori clockrate (us/s)	2.7918098E-07	Resid phdelay (usec)	-4.45957E-06	+/-	6.5E-07
Delay rate (us/s)	4.38476090066E-01	Apriori rate (us/s)	4.38479344100E-01	Resid rate (us/s)	-3.25403E-06	+/-	6.3E-09
Total phase (deg)		Apriori accel (us/s/s)	2.37110983363E-05	Resid phase (deg)	-138.3	+/-	20.2

ph/seg (deg)	64.2	Theor.	47.4	Amplitude	0.160 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	70.3		82.7	Search (1024X32)	0.153	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	47.3		28.6	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	56.5		49.9	Inc. seg. avg.	0.155	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.162	Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 132.0 el 33.1 pa -29.7 n: az 164.0 el 49.1 pa -11.6 u,v (fr/asec) -2500.280 759.698 simultaneous interpolator

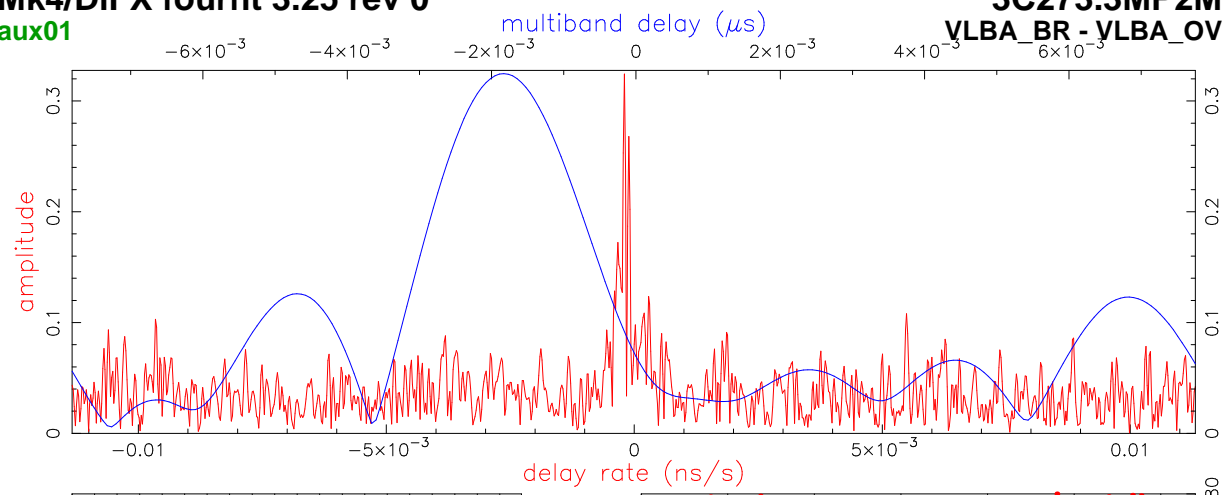
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//bn..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//bn.W.89.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bo

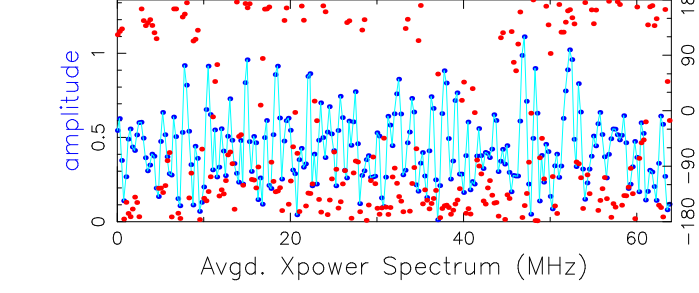
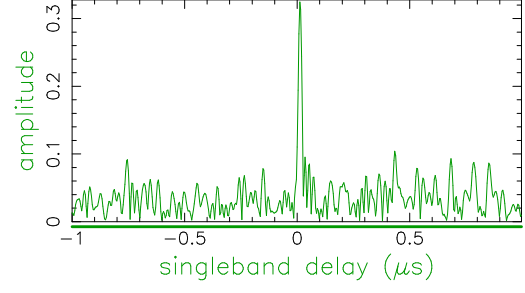
VLBA_BR - VLBA_OV, fgroup W, pol LL



Fringe quality 9

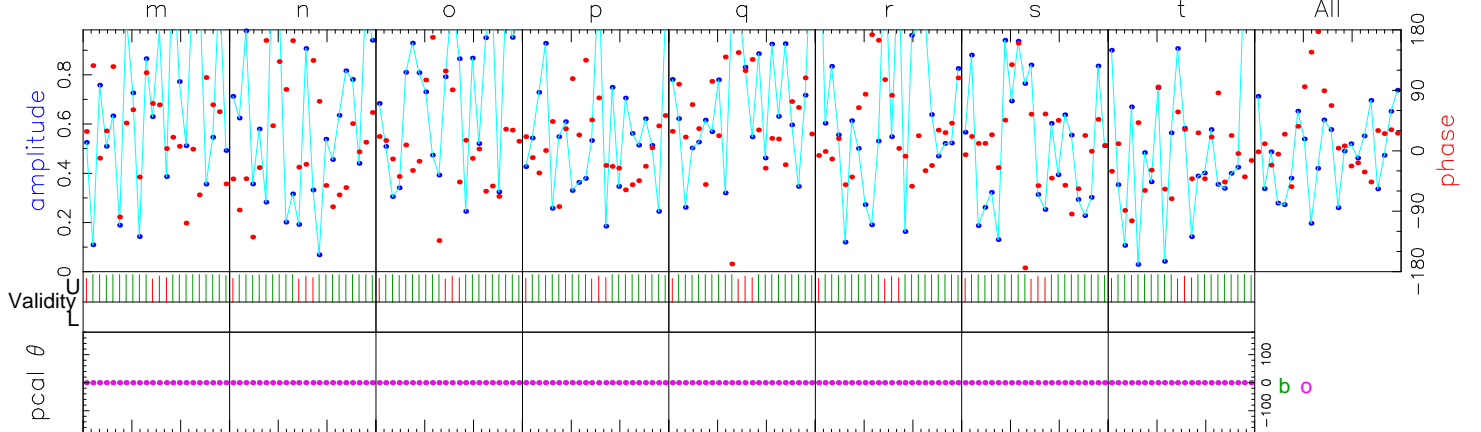
SNR 11.9
 Int time 175.866
 Amp 0.328
 Phase 14.1
 PFD 3.8e-24
 Delays (us)
 SBD 0.012994
 MBD -0.001775
 Fringe rate (Hz)
 -0.018046
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175917
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"



Avgd. Xpower Spectrum (MHz)

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	32.2	-9.3	2.4	4.7	55.0	15.0	22.3	-11.2		Phase 14.1
	0.4	0.3	0.4	0.4	0.4	0.4	0.2	0.3		Ampl. 0.3
	259.5	261.1	260.6	260.4	260.3	260.6	378.2	260.3		Sbd box 260.3
U/L	348/0	348/0	348/0	348/0	348/0	348/0	348/0	348/0		APs used
b	0	0	0	0	0	0	0	0		PC freqs
o	0	0	0	0	0	0	0	0		PC freqs
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
b	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks

Group delay (usec) (SBD)	-2.32484421006E+03	Apriori delay (usec)	-2.32485806049E+03	Resid mbdelay (usec)	-1.77457E-03	+/-	9.1E-05
Sband delay (usec)	-2.32484506624E+03	Apriori clock (usec)	-2.0430569E+01	Resid sbdelay (usec)	1.29943E-02	+/-	7.3E-04
Phase delay (usec)	-2.32485806003E+03	Apriori clockrate (us/s)	9.5168881E-08	Resid phdelay (usec)	4.54510E-07	+/-	3.1E-07
Delay rate (us/s)	-9.91503107268E-02	Apriori rate (us/s)	-9.91501012318E-02	Resid rate (us/s)	-2.09495E-07	+/-	3.0E-09
Total phase (deg)	-104.9	Apriori accel (us/s/s)	1.27805712447E-05	Resid phase (deg)	14.1	+/-	9.6

ph/seg (deg)	58.8	RMS	22.5	Theor.	Amplitude	0.328 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	66.8	Search (1024X32)	0.301	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	24.1	Inc. seg. avg.	0.448	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00
amp/frq (%)	21.0	Inc. frq. avg.	0.337	Data rate(Mb/s): 2048	simultaneous interpolator				

b: az 132.0 el 33.1 pa -29.7 o: az 127.0 el 40.9 pa -39.4 u,v (fr/asec) 575.029 1269.999

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bo..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bo.W.58.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

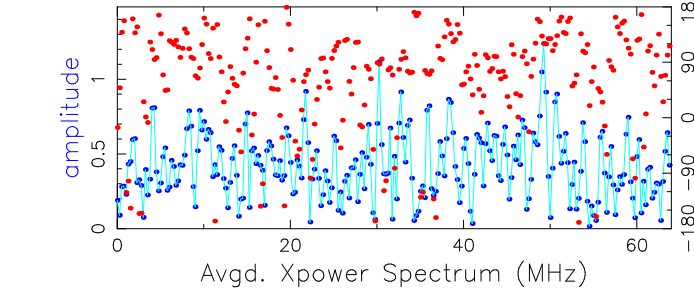
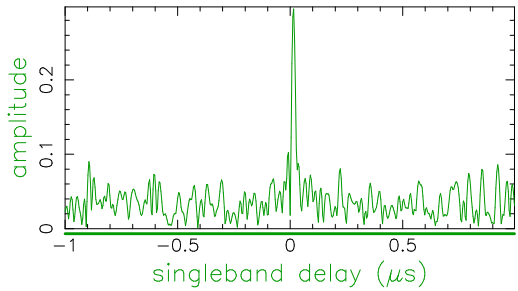
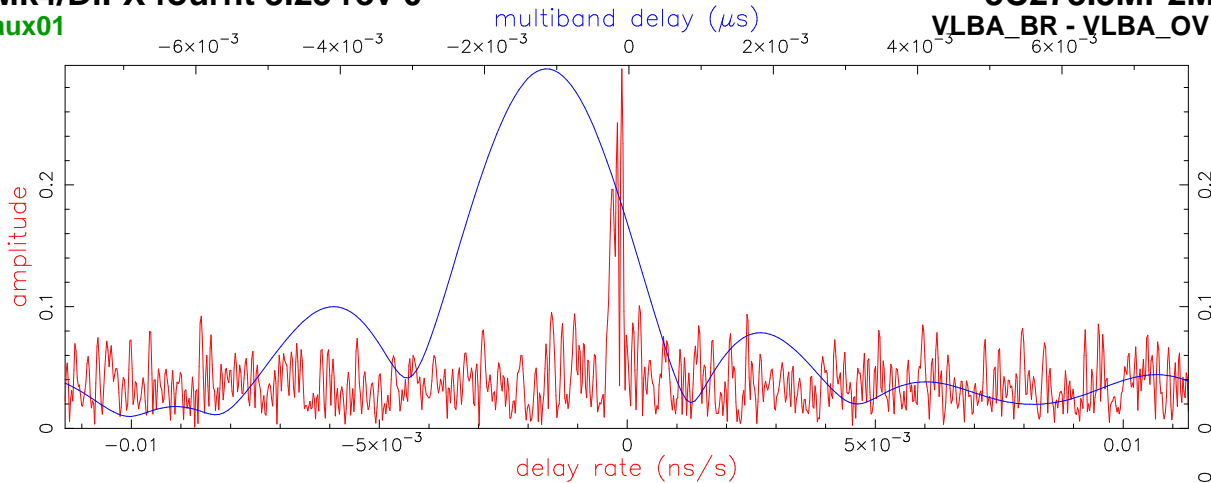
aux01

3C273.3MP2MB, No0707, bo

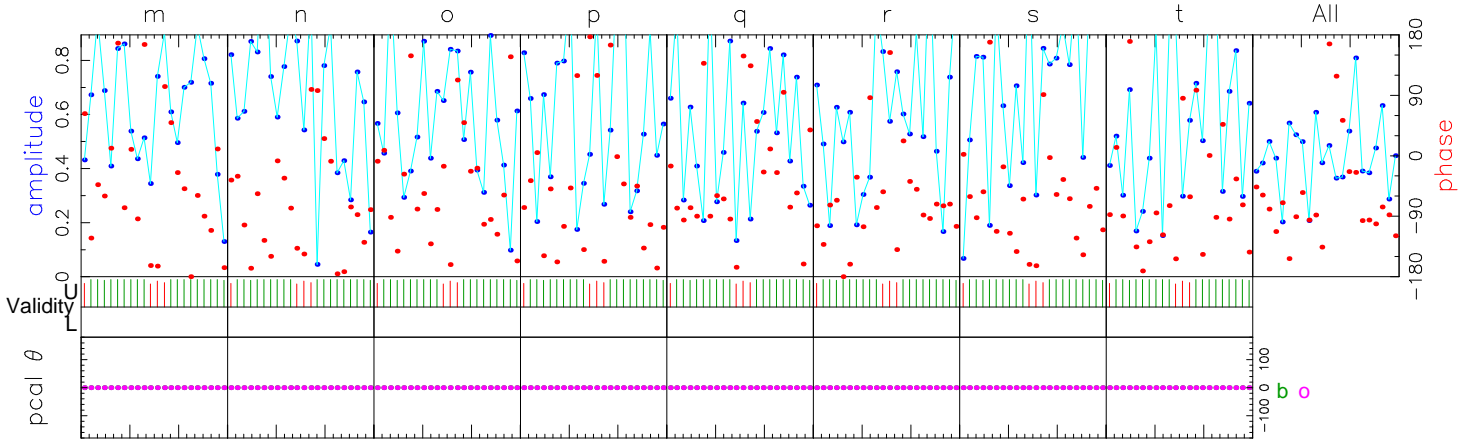
VLBA_BR - VLBA_OV, fgroup W, pol RR

Fringe quality 9

SNR 10.8
 Int time 175.866
 Amp 0.298
 Phase -84.6
 PFD 6.8e-19
 Delays (us)
 SBD 0.014379
 MBD -0.001136
 Fringe rate (Hz)
 -0.010313
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175919
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-82.7	-90.1	-81.4	-94.7	-58.3	-89.0	-84.2	-90.2	Phase	-84.6
	0.2	0.3	0.3	0.3	0.2	0.4	0.4	0.3	Ampl.	0.3
	178.0	261.2	49.8	177.1	260.9	260.2	260.4	260.1	Sbd box	260.7
U/L	348/0	348/0	348/0	348/0	348/0	348/0	348/0	348/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-2.32484357199E+03	Apriori delay (usec)	-2.32485806049E+03	Resid mbdelay (usec)	-1.13650E-03	+/-	1.0E-04
Sband delay (usec)	-2.32484368149E+03	Apriori clock (usec)	-2.0430569E+01	Resid sbdelay (usec)	1.43790E-02	+/-	8.0E-04
Phase delay (usec)	-2.32485806322E+03	Apriori clockrate (us/s)	9.5168881E-08	Resid phdelay (usec)	-2.72801E-06	+/-	3.4E-07
Delay rate (us/s)	-9.91502209582E-02	Apriori rate (us/s)	-9.91501012318E-02	Resid rate (us/s)	-1.19726E-07	+/-	3.3E-09
Total phase (deg)	-203.6	Apriori accel (us/s/s)	1.27805712447E-05	Resid phase (deg)	-84.6	+/-	10.6

ph/seg (deg)	57.9	Theor.	24.7	Amplitude	0.298 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	69.3	Search (1024X32)	0.280	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	12.2	Inc. seg. avg.	0.415	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	25.3	Inc. frq. avg.	0.290	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011	
				Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 132.0 el 33.1 pa -29.7 o: az 127.0 el 40.9 pa -39.4 u,v (fr/asec) 575.029 1269.999 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bo..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bo.W.64.3MP2MB

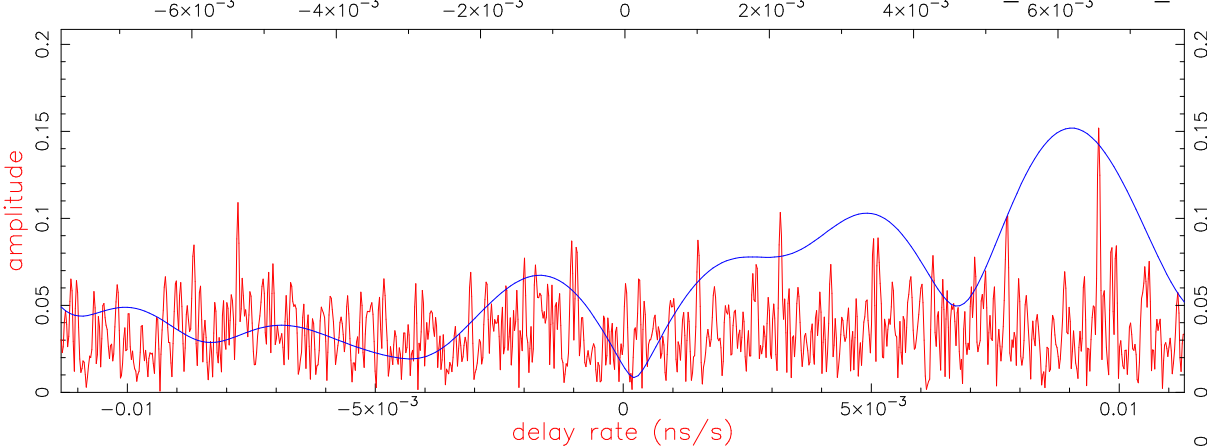
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bo

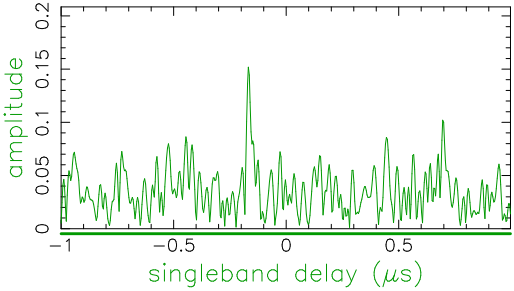
VLBA_BR - VLBA_OV, fgroup W, pol LR

multiband delay (μ s)

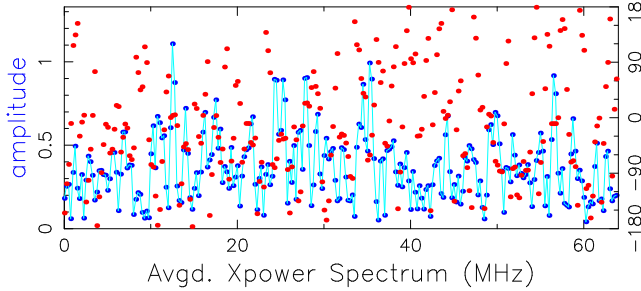


Fringe quality 0

SNR 5.5
 Int time 175.866
 Amp 0.209
 Phase 129.6
 PFD 9.8e-01
 Delays (us)
 SBD -0.167325
 MBD 0.006209
 Fringe rate (Hz)
 0.827739
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

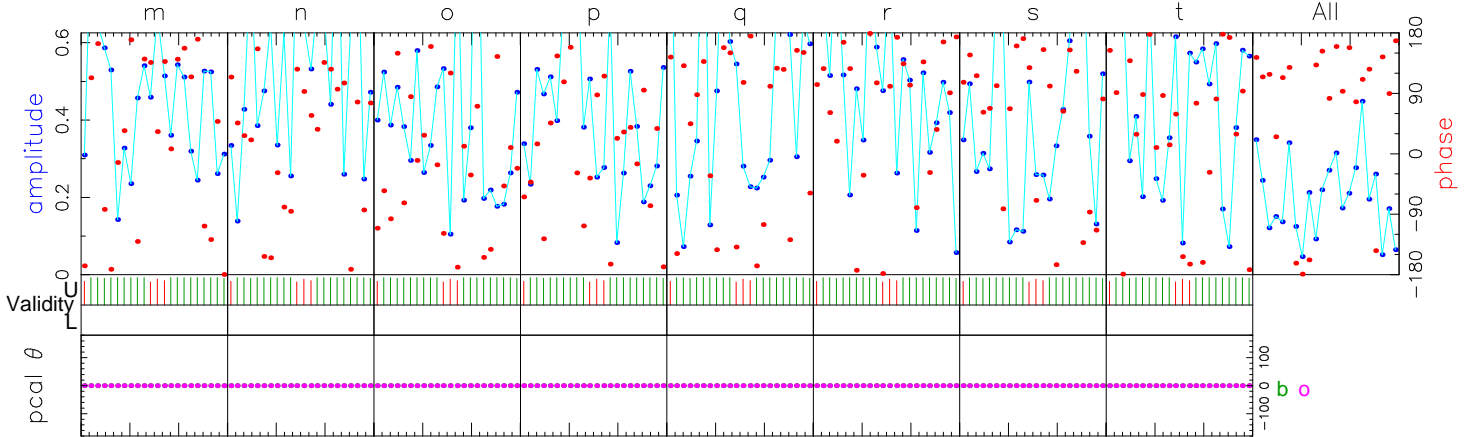


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175921
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	157.4	98.1	-39.6	50.8	156.2	119.3	137.0	119.3	Phase	129.6
	0.3	0.3	0.1	0.1	0.4	0.4	0.2	0.3	Ampl.	0.2
	241.7	403.0	497.4	435.7	213.7	214.0	451.4	277.1	Sbd box	214.2
U/L	348/0	348/0	348/0	348/0	348/0	348/0	348/0	348/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-2.32502372657E+03	Apriori delay (usec)	-2.32485806049E+03	Resid mbdelay (usec)	6.20892E-03	+/-	2.0E-04
Sband delay (usec)	-2.32502538599E+03	Apriori clock (usec)	-2.0430569E+01	Resid sbdelay (usec)	-1.67325E-01	+/-	1.6E-03
Phase delay (usec)	-2.32485805631E+03	Apriori clockrate (us/s)	9.5168881E-08	Resid phdelay (usec)	4.18048E-06	+/-	6.7E-07
Delay rate (us/s)	-9.91404920030E-02	Apriori rate (us/s)	-9.91501012318E-02	Resid rate (us/s)	9.60923E-06	+/-	6.5E-09
Total phase (deg)	10.6	Apriori accel (us/s/s)	1.27805712447E-05	Resid phase (deg)	129.6	+/-	20.8

ph/seg (deg)	44.8	RMS	44.8	Theor.	48.4	Amplitude	0.209 +/- 0.038	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000		
amp/seg (%)	74.7	44.8	48.4	Search (1024X32)	0.150	Search	0.150	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	SampCntNorm:	enabled	mb window (us)	-0.008	0.008		
ph/frq (deg)	79.2	74.7	84.5	Interp.	0.000	Interp.	0.000	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	nlags:	256	t_cohere	infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	60.9	79.2	29.4	Inc. seg. avg.	0.203	Inc. seg. avg.	0.203	Data rate (Mb/s):	2048							
		60.9	51.2	Inc. frq. avg.	0.221	Inc. frq. avg.	0.221									

b: az 132.0 el 33.1 pa -29.7 o: az 127.0 el 40.9 pa -39.4 u,v (fr/asec) 575.029 1269.999 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bo..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bo.W.69.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

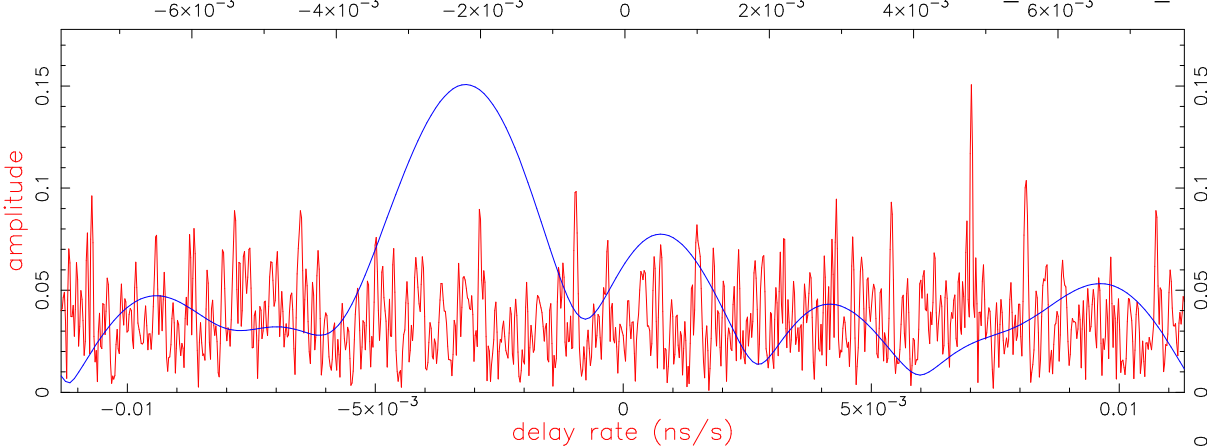
aux01

3C273.3MP2MB, No0707, bo

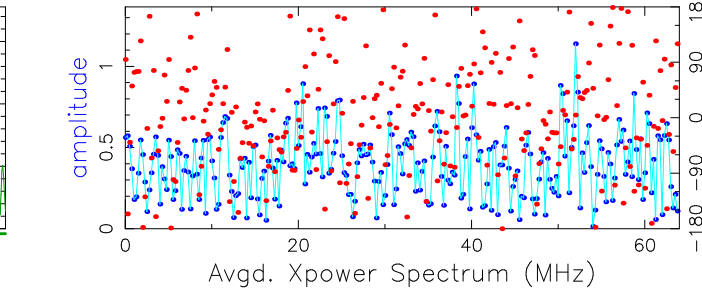
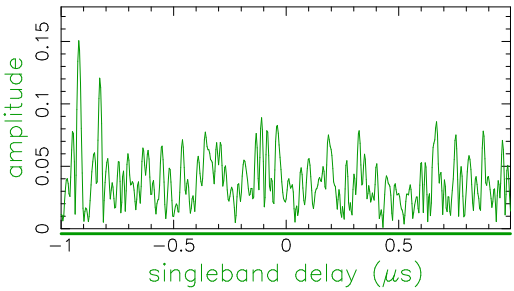
VLBA_BR - VLBA_OV, fgroup W, pol RL

multiband delay (μ s)

Fringe quality 0

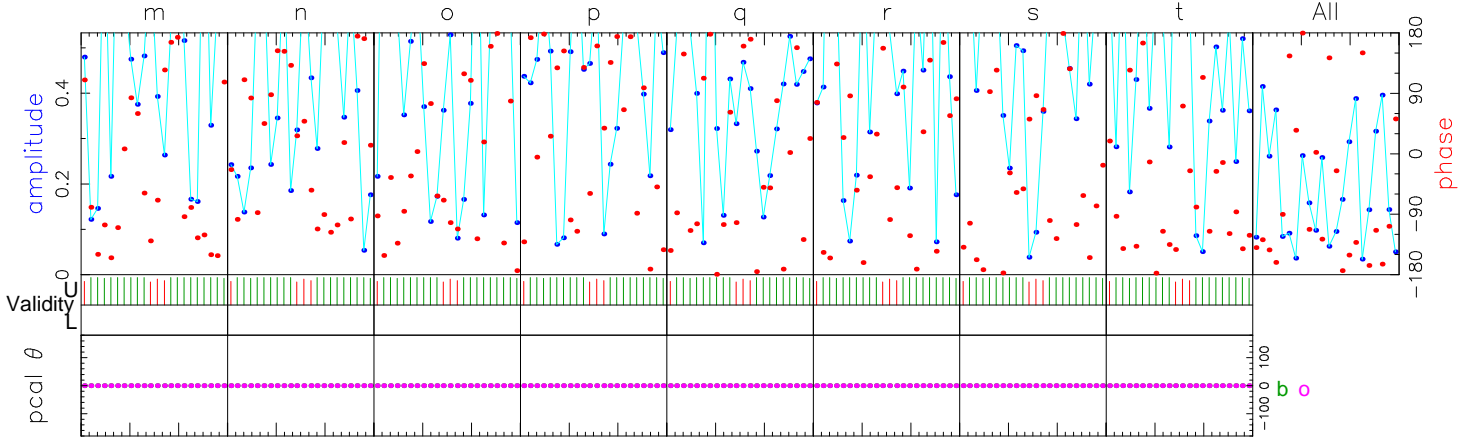


SNR 5.5
 Int time 175.866
 Amp 0.178
 Phase -143.4
 PFD 9.9e-01
 Delays (us)
 SBD -0.921211
 MBD -0.002166
 Fringe rate (Hz)
 0.605150
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175923
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-139.8	-98.4	-125.0	-161.0	-168.7	162.4	-126.4	-121.1	Phase	-143.4
	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
	52.7	117.3	246.2	340.2	2.9	146.1	156.2	99.1	Sbd box	21.2
U/L	348/0	348/0	348/0	348/0	348/0	348/0	348/0	348/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD) -2.32578210116E+03 Apriori delay (usec) -2.32485806049E+03 Resid mbdelay (usec) -2.16567E-03 +/- 2.0E-04
 Sband delay (usec) -2.32577927099E+03 Apriori clock (usec) -2.0430569E+01 Resid sbdelay (usec) -9.21211E-01 +/- 1.6E-03
 Phase delay (usec) -2.32485806511E+03 Apriori clockrate (us/s) 9.5168881E-08 Resid phdelay (usec) -4.62285E-06 +/- 6.8E-07
 Delay rate (us/s) -9.91430760375E-02 Apriori rate (us/s) -9.91501012318E-02 Resid rate (us/s) 7.02519E-06 +/- 6.6E-09
 Total phase (deg) -262.4 Apriori accel (us/s/s) 1.27805712447E-05 Resid phase (deg) -143.4 +/- 20.9

RMS Theor. Amplitude 0.178 +/- 0.032 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 73.7 48.8 Search (1024X32) 0.148 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 87.3 85.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 34.3 29.6 Inc. seg. avg. 0.165 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 27.8 51.7 Inc. frq. avg. 0.176 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 132.0 el 33.1 pa -29.7 o: az 127.0 el 40.9 pa -39.4 u,v (fr/asec) 575.029 1269.999 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//bo..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//bo.W.78.3MP2MB

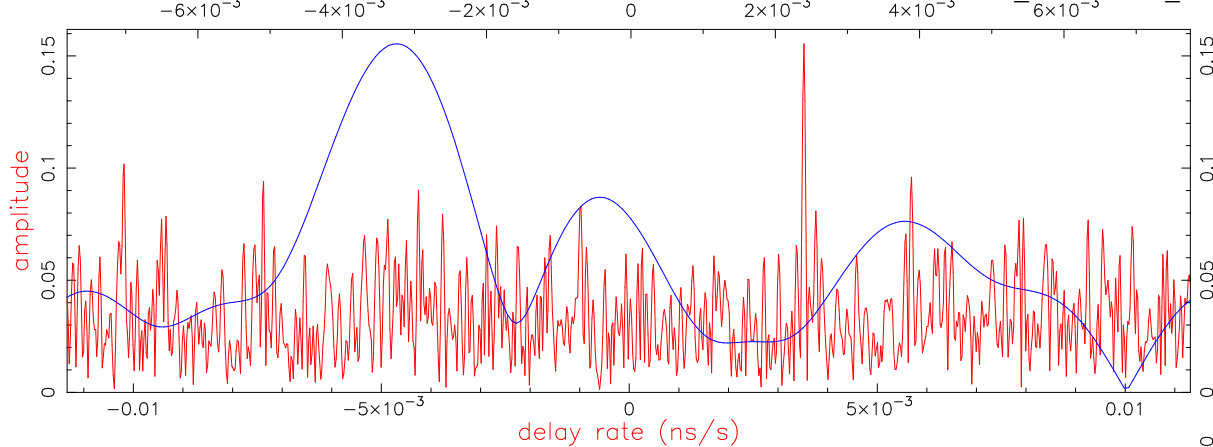
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bp

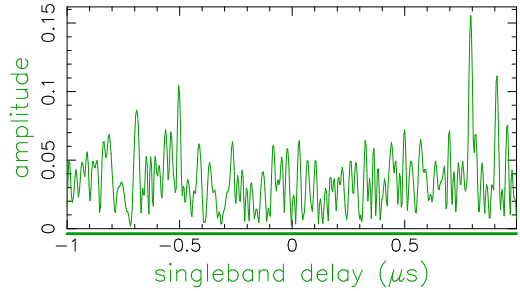
VLBA_BR - VLBA_PT, fgroup W, pol RL

multiband delay (μ s)

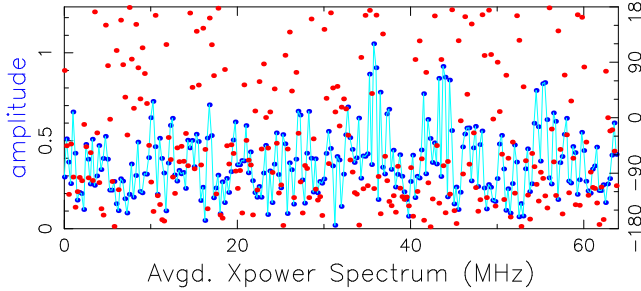


Fringe quality 0

SNR 5.7
 Int time 179.746
 Amp 0.162
 Phase 55.9
 PFD 7.7e-01
 Delays (us)
 SBD 0.792996
 MBD -0.003246
 Fringe rate (Hz)
 0.304440
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

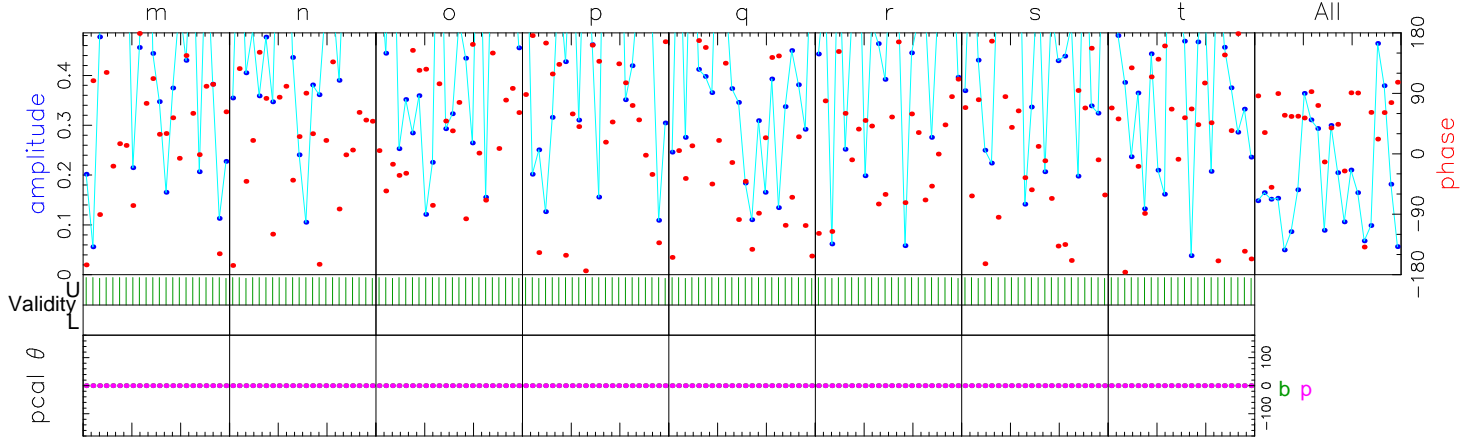


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175929
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	58.4	57.4	41.9	96.8	-38.5	41.8	1.9	88.9	Phase	55.9
	0.2	0.3	0.2	0.2	0.1	0.2	0.1	0.2	Ampl.	0.2
	115.3	384.8	129.1	271.3	143.0	169.9	333.6	451.4	Sbd box	460.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-4.42115957039E+03	Apriori delay (usec)	-4.42195319905E+03	Resid mbdelay (usec)	-3.24634E-03	+/-	1.9E-04
Sband delay (usec)	-4.42116020305E+03	Apriori clock (usec)	-1.0779572E+00	Resid sbdelay (usec)	7.92996E-01	+/-	1.5E-03
Phase delay (usec)	-4.42195319725E+03	Apriori clockrate (us/s)	1.9774395E-07	Resid phdelay (usec)	1.80310E-06	+/-	6.5E-07
Delay rate (us/s)	6.63397455676E-02	Apriori rate (us/s)	6.63362113190E-02	Resid rate (us/s)	3.53425E-06	+/-	6.2E-09
Total phase (deg)	-148.0	Apriori accel (us/s/s)	2.41908522609E-05	Resid phase (deg)	55.9	+/-	20.1

ph/seg (deg)	52.6	Theor.	47.2	Amplitude	0.162 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	75.5	Search (1024X32)	0.151	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000
ph/frq (deg)	50.0	Interp.	0.000	Bits/sample: 2x2		mb window (us)	-0.008 0.008
amp/frq (%)	42.9	Inc. seg. avg.	0.149	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.011 0.011
		Inc. frq. avg.	0.169	Data rate(Mb/s): 2048		ion window (TEC)	0.00 0.00

b: az 132.0 el 33.1 pa -29.7 p: az 136.3 el 49.0 pa -34.7 u,v (fr/asec) -367.312 1666.942 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bp..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bp.W.106.3MP2MB

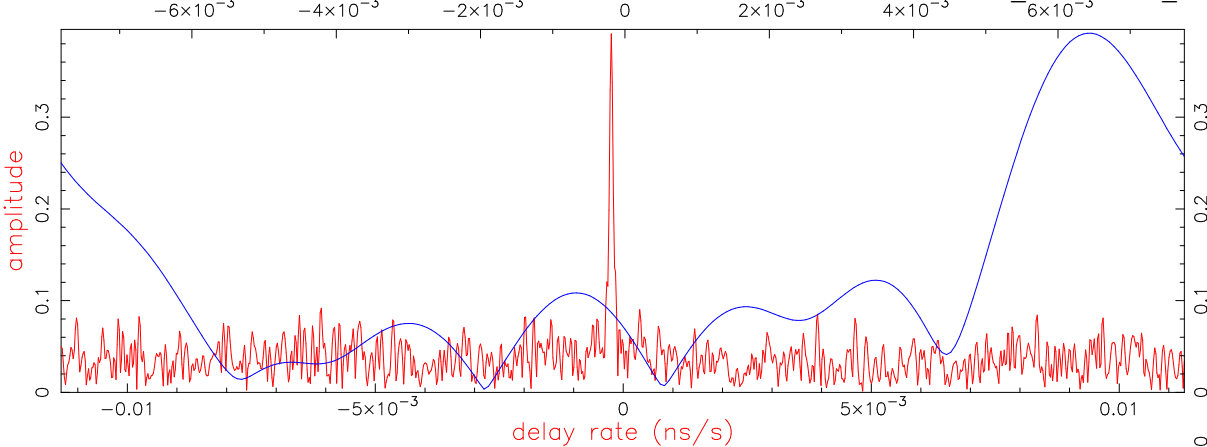
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bp

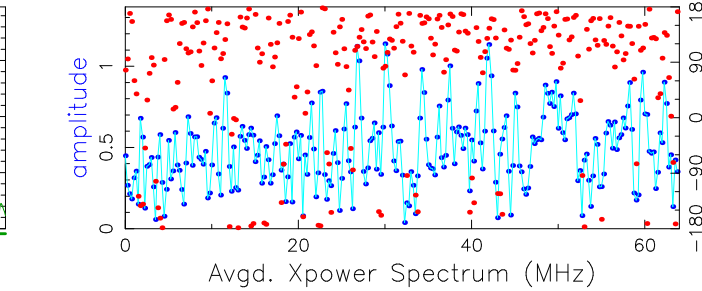
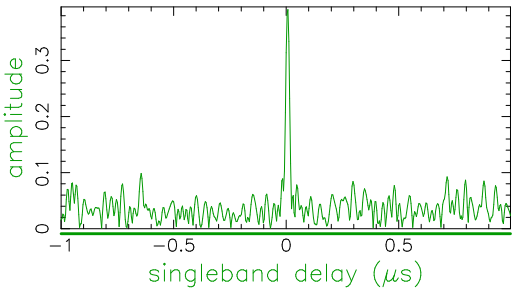
VLBA_BR - VLBA_PT, fgroup W, pol LL

multiband delay (μ s)



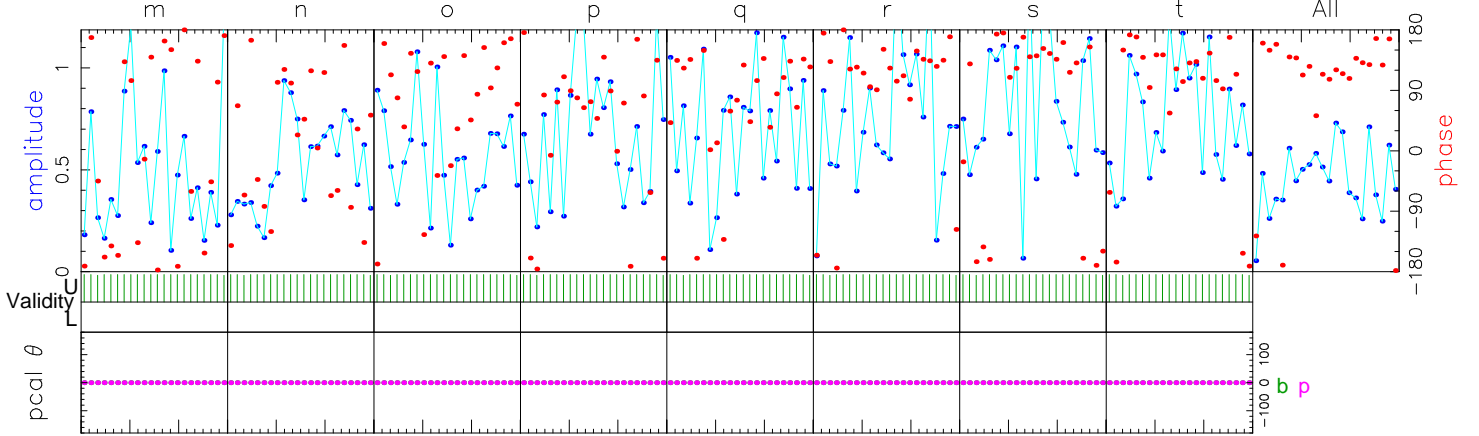
Fringe quality 7

SNR 14.5
 Int time 179.746
 Amp 0.396
 Phase 132.8
 PFD 3.4e-39
 Delays (us)
 SBD 0.006328
 MBD 0.006351
 Fringe rate (Hz) -0.020397
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175922
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	0	0	0	0	0	0	0	0		
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	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
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) -4.42194684769E+03 Apriori delay (usec) -4.42195319905E+03 Resid mbdelay (usec) 6.35136E-03 +/- 7.5E-05
 Sband delay (usec) -4.42194687080E+03 Apriori clock (usec) -1.0779572E+00 Resid sbdelay (usec) 6.32825E-03 +/- 5.9E-04
 Phase delay (usec) -4.42195319477E+03 Apriori clockrate (us/s) 1.9774395E-07 Resid phdelay (usec) 4.28254E-06 +/- 2.5E-07
 Delay rate (us/s) 6.63359745290E-02 Apriori rate (us/s) 6.63362113190E-02 Resid rate (us/s) -2.36790E-07 +/- 2.4E-09
 Total phase (deg) -71.1 Apriori accel (us/s/s) 2.41908522609E-05 Resid phase (deg) 132.8 +/- 7.9

RMS Theor. Amplitude 0.396 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 36.3 18.5 Search (1024X32) 0.382 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 43.8 32.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 29.5 11.2 Inc. seg. avg. 0.429 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 46.7 19.5 Inc. frq. avg. 0.414 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

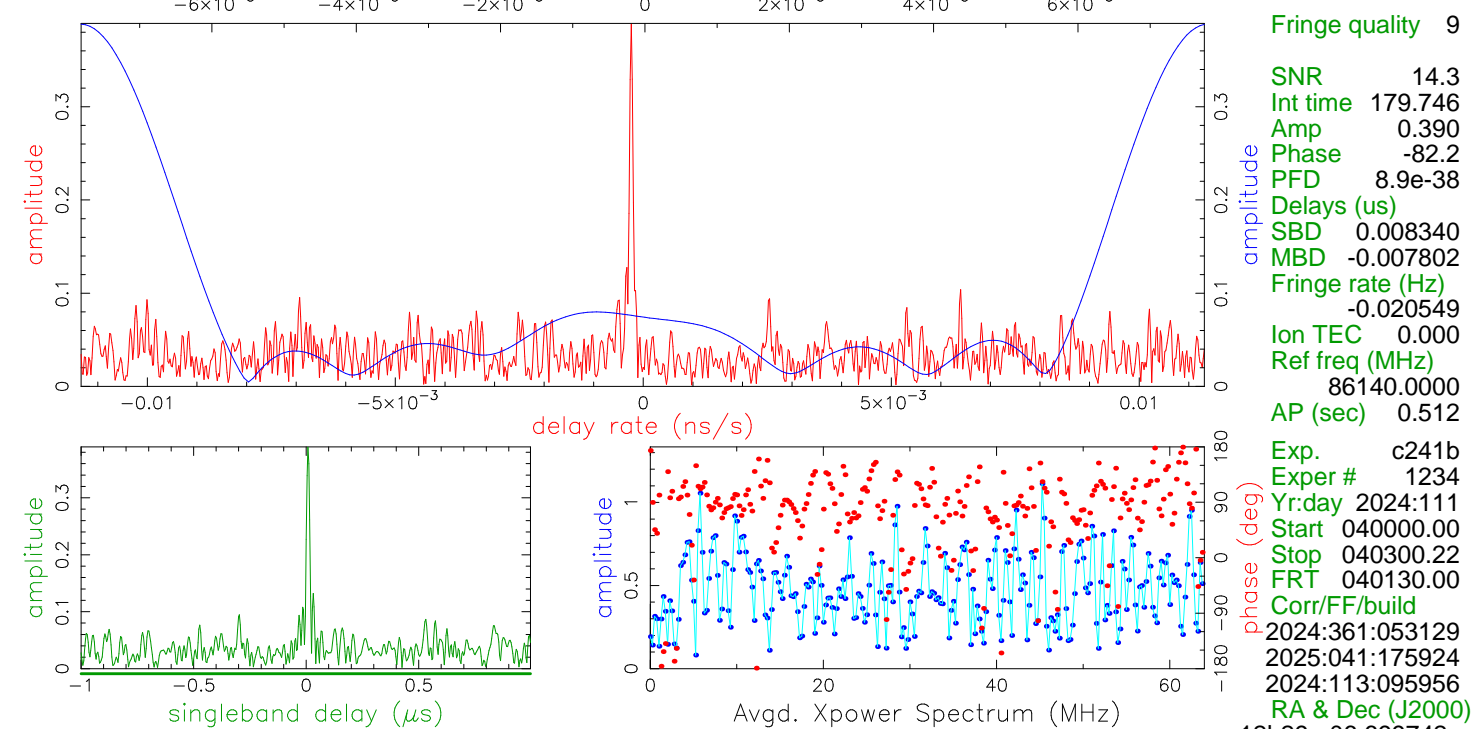
b: az 132.0 el 33.1 pa -29.7 p: az 136.3 el 49.0 pa -34.7 u,v (fr/asec) -367.312 1666.942 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//bp..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//bp.W.77.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

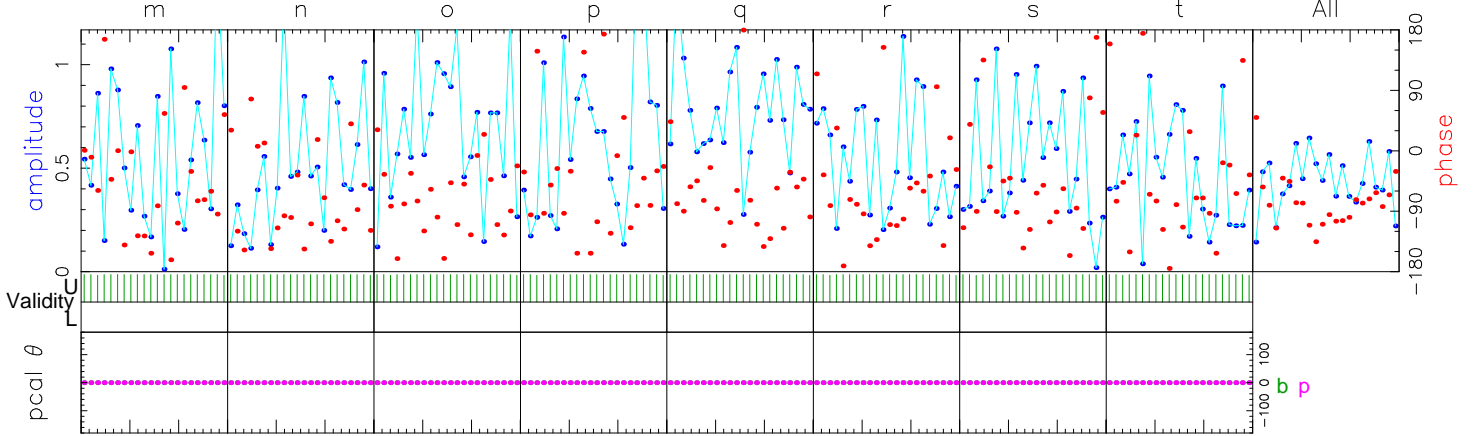
aux01

3C273.3MP2MB, No0707, bp

VLBA_BR - VLBA_PT, fgroup W, pol RR



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-70.5	-89.3	-81.1	-89.2	-80.0	-85.5	-86.1	-76.0	Phase	-82.2
	0.3	0.3	0.5	0.4	0.6	0.3	0.4	0.3	Ampl.	0.4
	258.1	259.2	259.8	259.4	259.2	259.2	258.9	258.6	Sbd box	259.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec) (SBD)	-4.42194537643E+03		Apriori delay (usec)	-4.42195319905E+03	Resid mbdelay (usec)	-7.80238E-03	+/-	7.6E-05		
Sband delay (usec)	-4.42194485955E+03		Apriori clock (usec)	-1.0779572E+00	Resid sbdelay (usec)	8.33950E-03	+/-	6.0E-04		
Phase delay (usec)	-4.42195320170E+03		Apriori clockrate (us/s)	1.9774395E-07	Resid phdelay (usec)	-2.65207E-06	+/-	2.6E-07		
Delay rate (us/s)	6.63359727633E-02		Apriori rate (us/s)	6.63362113190E-02	Resid rate (us/s)	-2.38556E-07	+/-	2.5E-09		
Total phase (deg)		-286.1	Apriori accel (us/s/s)	2.41908522609E-05	Resid phase (deg)	-82.2	+/-	8.0		

ph/seg (deg) 37.9 18.8 Search (1024X32) 0.385 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 36.1 32.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 7.1 11.3 Inc. seg. avg. 0.416 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 28.4 19.8 Inc. frq. avg. 0.383 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011

b: az 132.0 el 33.1 pa -29.7 p: az 136.3 el 49.0 pa -34.7 u,v (fr/asec) -367.312 1666.942 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//bp..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//bp.W.88.3MP2MB simultaneous interpolator

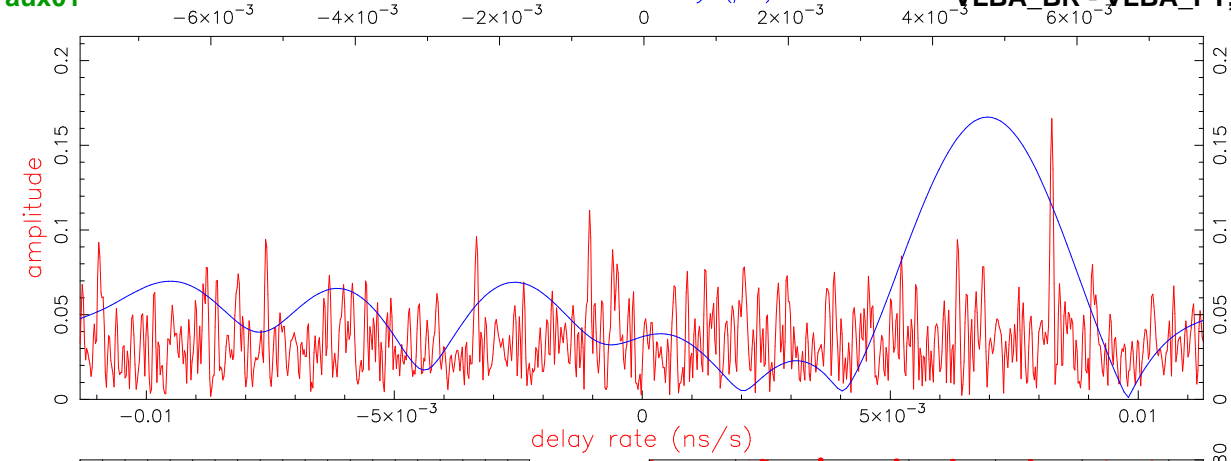
Mk4/DiFX fourfit 3.25 rev 0

aux01

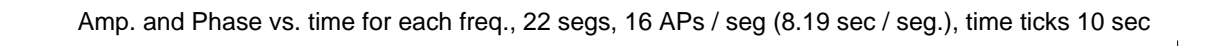
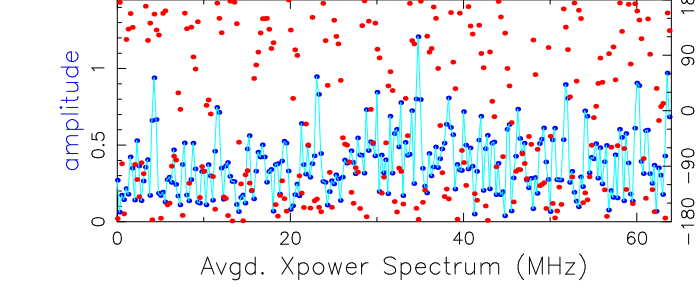
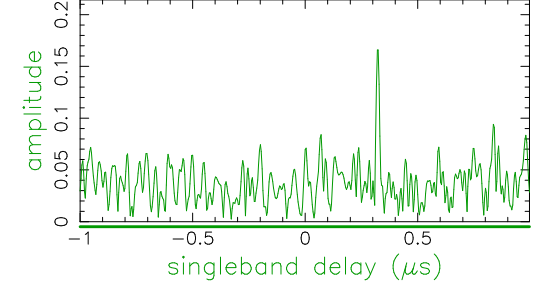
3C273.3MP2MB, No0707, bp

VLBA_BR - VLBA_PT, fgroup W, pol LR

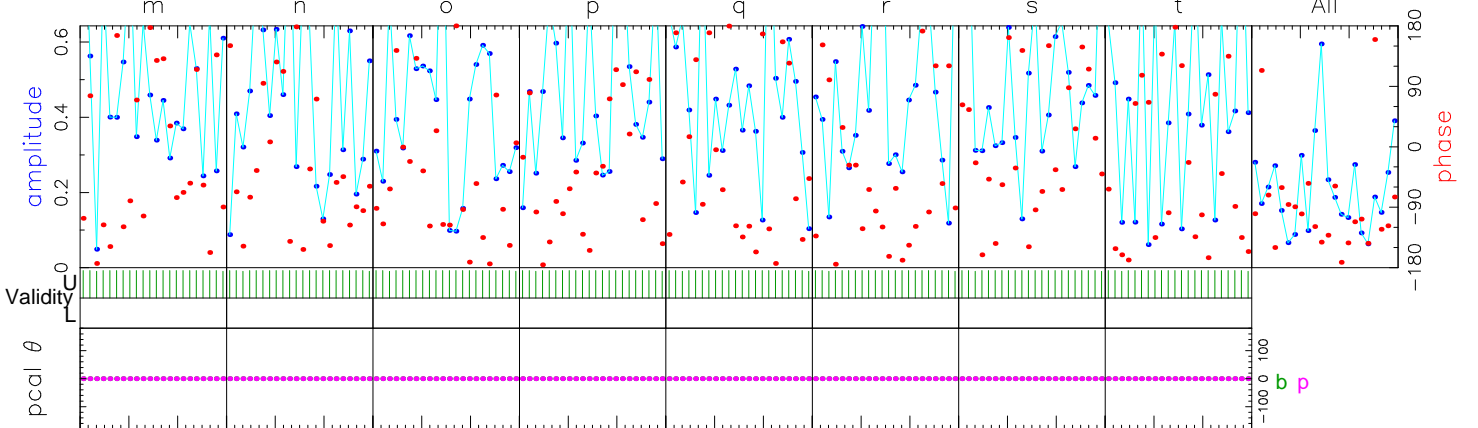
multiband delay (μ s)



Fringe quality 0
 SNR 6.2
 Int time 179.746
 Amp 0.214
 Phase -116.1
 PFD 5.5e-02
 Delays (us)
 SBD 0.322251
 MBD 0.004870
 Fringe rate (Hz) 0.712748
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175927
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-122.2	-94.8	-98.7	-119.9	-128.3	-120.4	-25.3	-138.8	Phase	-116.1
	0.3	0.2	0.2	0.1	0.3	0.3	0.1	0.3	Ampl.	0.2
	438.0	47.4	102.5	77.6	107.2	339.6	109.7	477.1	Sbd box	339.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	-4.42163582930E+03		Apriori delay (usec)		-4.42195319905E+03		Resid mbdelay (usec)		4.86976E-03	+/- 1.7E-04
Sband delay (usec)	-4.42163094755E+03		Apriori clock (usec)		-1.0779572E+00		Resid sbdelay (usec)		3.22251E-01	+/- 1.4E-03
Phase delay (usec)	-4.42195320279E+03		Apriori clockrate (us/s)		1.9774395E-07		Resid phdelay (usec)		-3.74271E-06	+/- 5.9E-07
Delay rate (us/s)	6.63444856183E-02		Apriori rate (us/s)		6.63362113190E-02		Resid rate (us/s)		8.27430E-06	+/- 5.7E-09
Total phase (deg)			Apriori accel (us/s/s)		2.41908522609E-05		Resid phase (deg)		-116.1	+/- 18.3

ph/seg (deg) 46.2 43.0 Search (1024X32) 0.162 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 76.3 75.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 40.3 25.9 Inc. seg. avg. 0.210 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 41.1 45.3 Inc. frq. avg. 0.207 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 b: az 132.0 el 33.1 pa -29.7 p: az 136.3 el 49.0 pa -34.7 u,v (fr/asec) -367.312 1666.942 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//bp..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//bp.W.94.3MP2MB