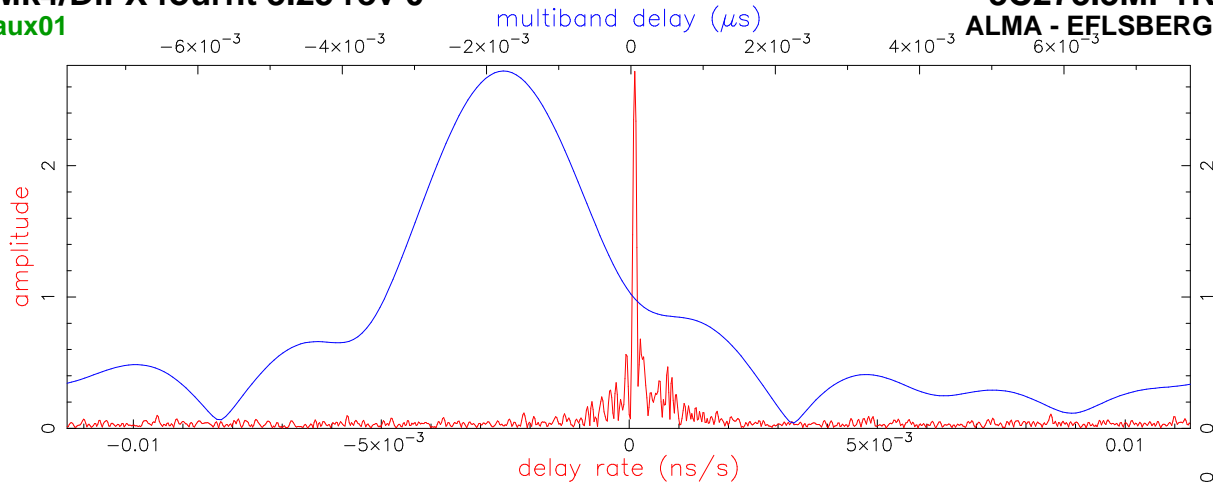


Mk4/DiFX fourfit 3.25 rev 0

aux01

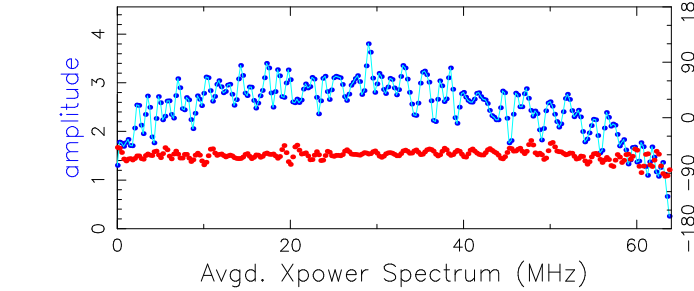
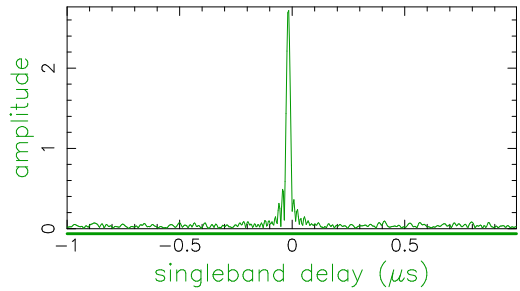
3C273.3MP1KJ, No0618, AB

ALMA - EFLSBERG, fgroup W, pol XR



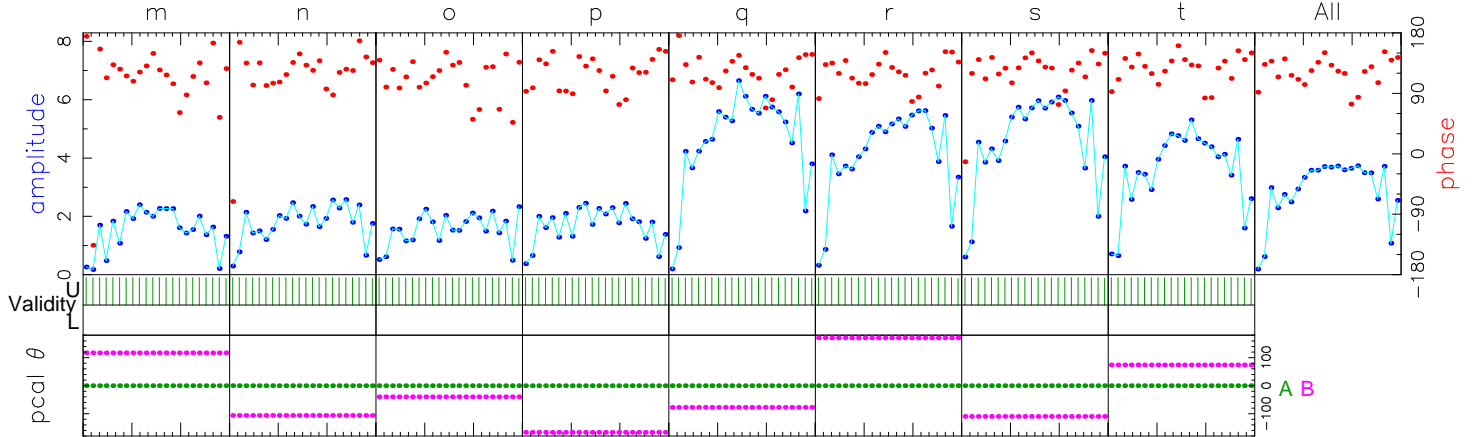
Fringe quality 5

SNR 101.4
 Int time 179.974
 Amp 2.763
 Phase 122.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.017331
 MBD -0.001816
 Fringe rate (Hz)
 0.009244
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234000.00
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build
 2024:359:200643
 2025:041:171322
 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		
A	0	0	0	0	0	0	0	0		
B	0	0	0	0	0	0	0	0		
A:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
A	1000	1000	1000	1000	1000	1000	1000	1000		
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

Group delay (usec) (SBD) -3.11643521168E+03 Apriori delay (usec) -3.11641777062E+03 Resid mbdelay (usec) -1.81606E-03 +/- 1.1E-05
 Sband delay (usec) -3.11643510162E+03 Apriori clock (usec) -2.0720217E+03 Resid sbdelay (usec) -1.73310E-02 +/- 8.5E-05
 Phase delay (usec) -3.11641776667E+03 Apriori clockrate (us/s) 1.7870709E-07 Resid phdelay (usec) 3.95504E-06 +/- 3.6E-08
 Delay rate (us/s) 1.50640869084E+00 Apriori rate (us/s) 1.50640858353E+00 Resid rate (us/s) 1.07312E-07 +/- 3.5E-10
 Total phase (deg) -151.5 Apriori accel (us/s/s) 1.17482835173E-06 Resid phase (deg) 122.6 +/- 1.1

RMS Theor. Amplitude 2.763 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 20.3 2.7 Search (1024X32) 2.678 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 37.2 4.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 5.3 1.6 Inc. seg. avg. 2.898 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 45.5 2.8 Inc. frq. avg. 2.725 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

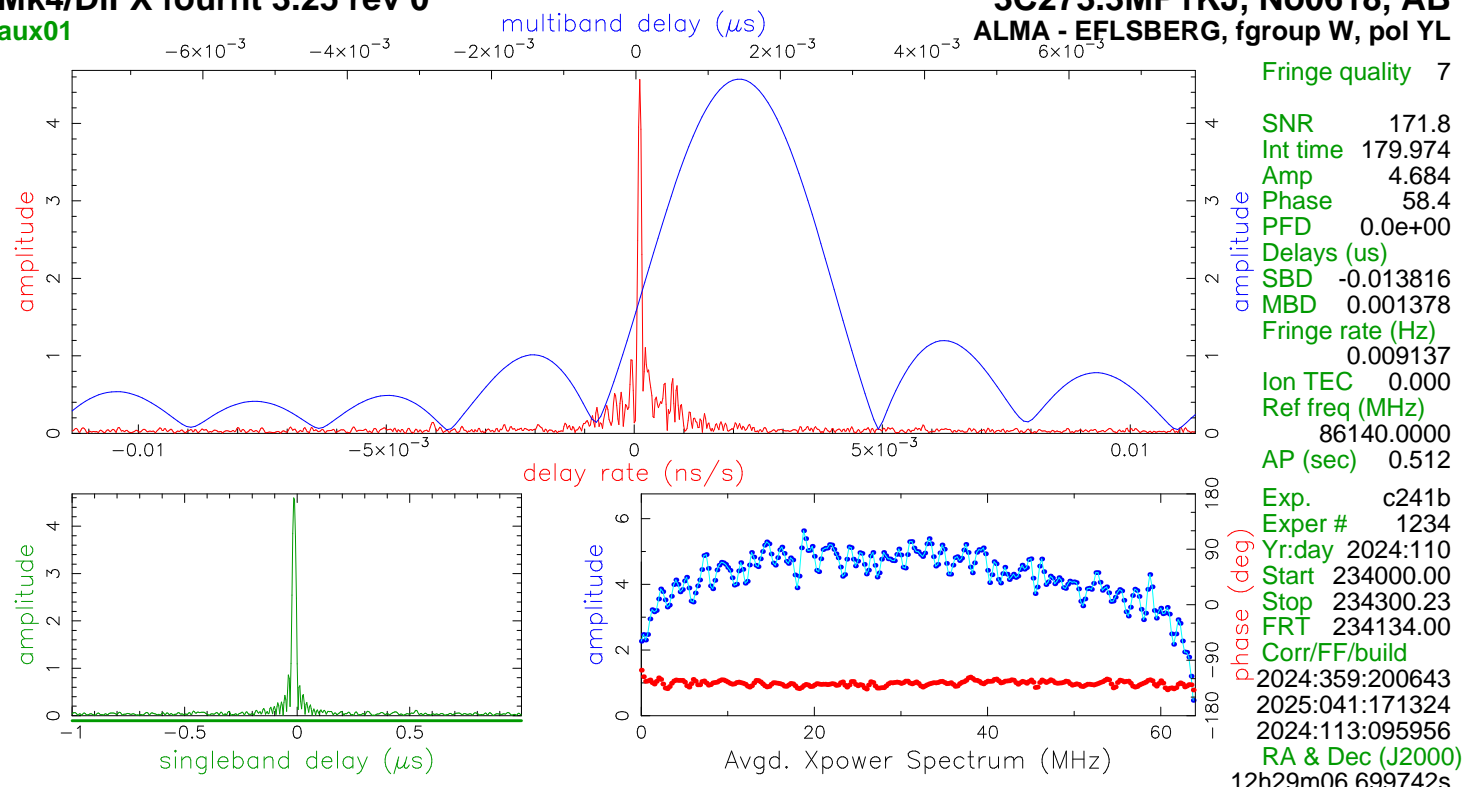
A: az 70.9 el 33.8 pa -119.7 B: az 209.4 el 37.7 pa 18.4 u,v (fr/asec) -8634.163 -10270.791 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618//AB..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618//AB.W.13.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

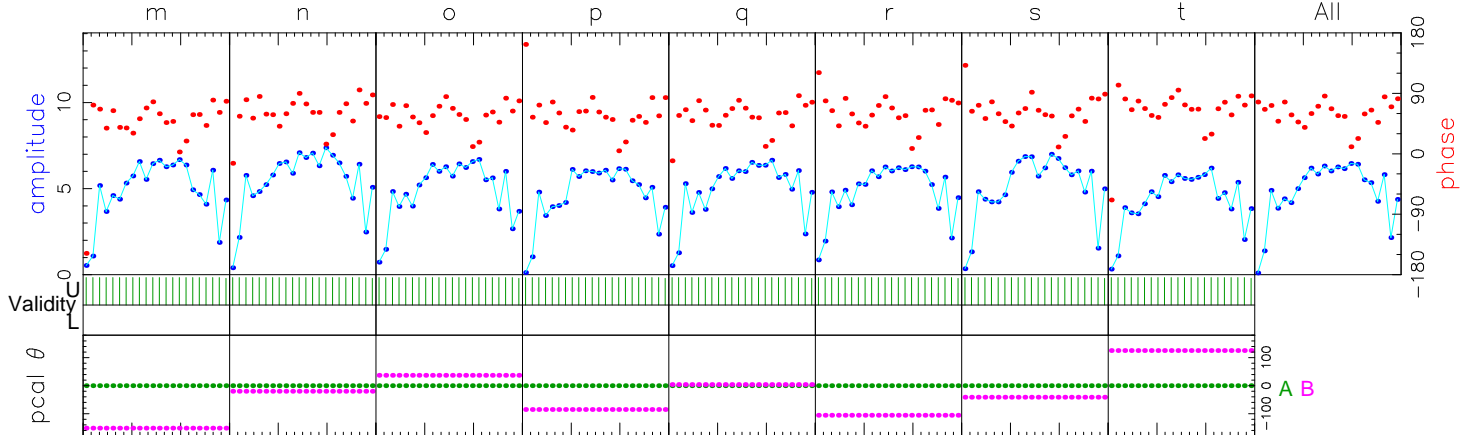
aux01

3C273.3MP1KJ, No0618, AB

ALMA - EFLSBERG, fgroup W, pol YL



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



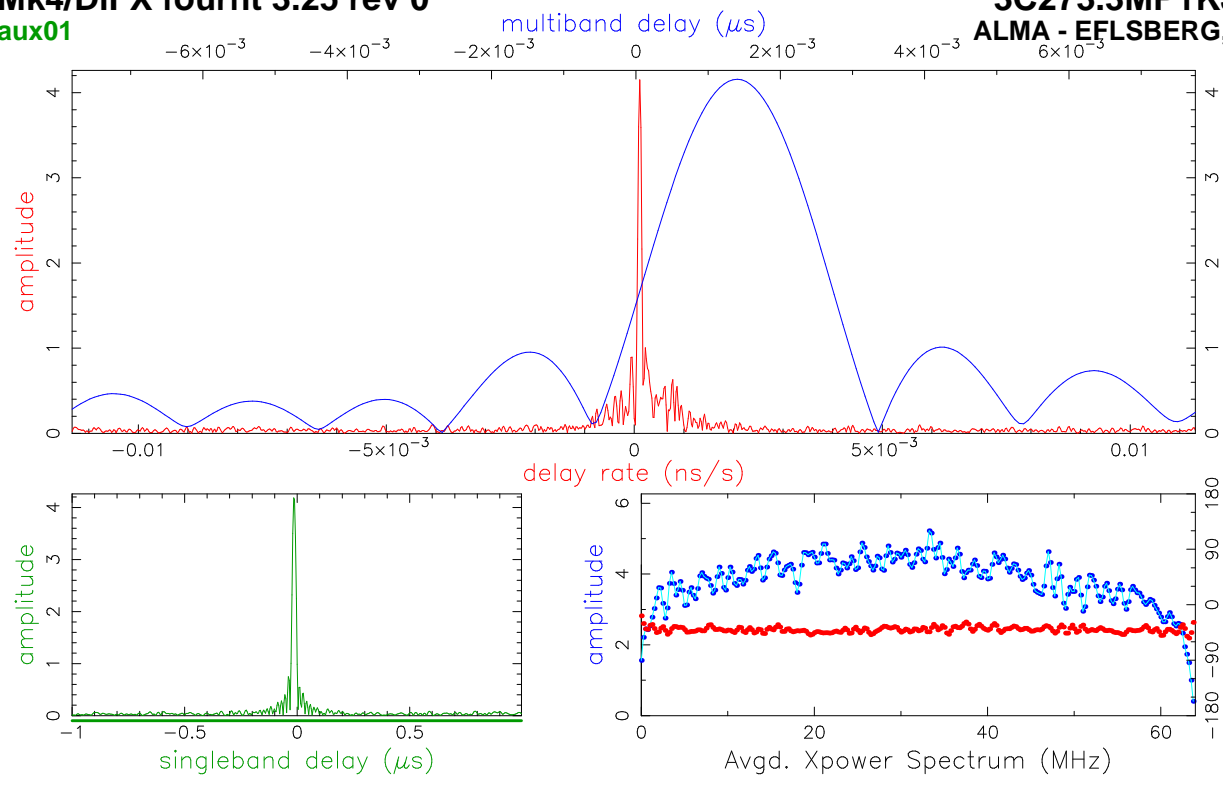
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
51.2	63.1	55.7	54.6	56.6	58.9	58.9	59.7	67.6	Phase	58.4
4.5	5.1	4.6	4.3	4.7	4.6	4.7	4.7	4.1	Ampl.	4.6
255.0	253.7	253.0	253.0	253.0	253.0	253.1	253.3	254.6	Sbd box	253.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	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:-151	0:-20	0:37	0:-85	0:4	0:-106	0:-41	0:125	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	
									Tracks	
Group delay (usec) (SBD)	-3.11643201771E+03		Apriori delay (usec)	-3.11641777062E+03	Resid mbdelay (usec)	1.37791E-03	+/-	6.3E-06		
Sband delay (usec)	-3.11643158662E+03		Apriori clock (usec)	-2.0720217E+03	Resid sbdelay (usec)	-1.38160E-02	+/-	5.0E-05		
Phase delay (usec)	-3.11641776874E+03		Apriori clockrate (us/s)	1.7870709E-07	Resid phdelay (usec)	1.88356E-06	+/-	2.2E-08		
Delay rate (us/s)	1.50640868960E+00		Apriori rate (us/s)	1.50640858353E+00	Resid rate (us/s)	1.06068E-07	+/-	2.1E-10		
Total phase (deg)		-215.7	Apriori accel (us/s/s)	1.17482835173E-06	Resid phase (deg)	58.4	+/-	0.7		
ph/seg (deg)	RMS 18.7	Theor. 1.6	Amplitude	4.684 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	35.8	2.7	Search (1024X32)	4.530	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	5.6	0.9	Inc. seg. avg.	4.849	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	6.2	1.6	Inc. frq. avg.	4.581	Data rate(Mb/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 70.9 el 33.8 pa -119.7		B:	az 209.4 el 37.7 pa 18.4	u,v (fr/asec)	-8634.163 -10270.791		simultaneous interpolator		
Control file:	cf_1234_gmva		Input file:	/Exps/c241b/v2/3mm/1234/No0618//AB..3MP1KJ	Output file:	/Exps/c241b/v2/3mm/1234/No0618//AB.W.23.3MP1KJ				

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, AB

ALMA - EFLSBERG, fgroup W, pol XL

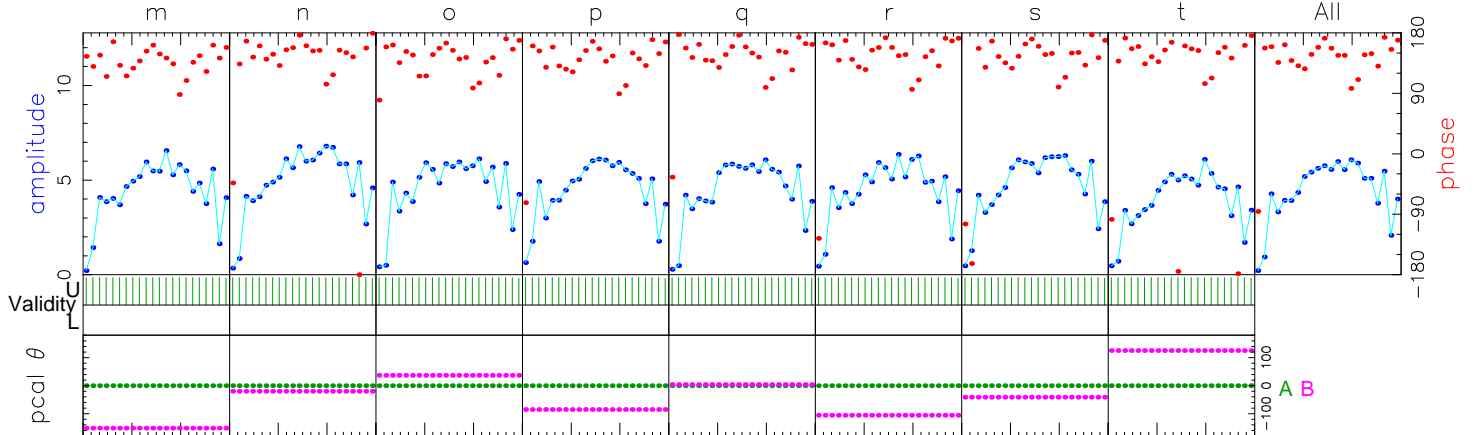


Fringe quality 6

SNR 156.3
 Int time 179.974
 Amp 4.262
 Phase 145.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.013837
 MBD 0.001346
 Fringe rate (Hz) 0.009127
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234000.00
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build
 2024:359:200643
 2025:041:171317
 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



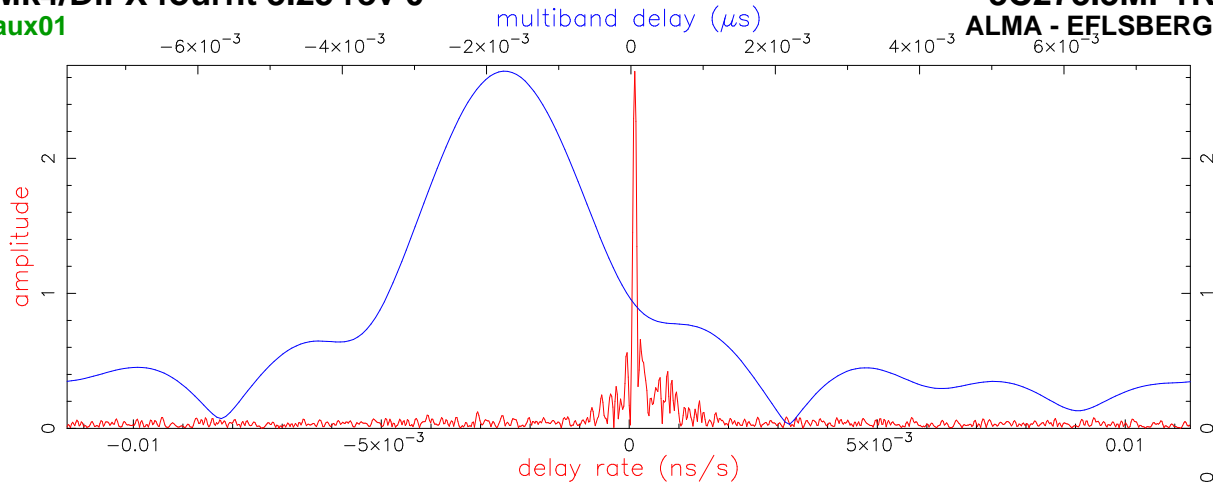
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
A	0	0	0	0	0	0	0	0		
B	0	0	0	0	0	0	0	0		
A:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
A:B	0:-151	0:-20	0:37	0:-85	0:4	0:-106	0:-41	0:125		
A	1000	1000	1000	1000	1000	1000	1000	1000		
B	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UX	W12UX	W13UX	W14UX	W15UX	W16UX	W17UX	W18UX		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec) (SBD)	-3.11643204931E+03									
Sband delay (usec)	-3.11643160712E+03									
Phase delay (usec)	-3.11641776593E+03									
Delay rate (us/s)	1.50640868948E+00									
Total phase (deg)			-128.6							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									145.5	+/- 0.7
Pcal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5							
Pcal rate:	0.000E+00	0.000E+00	(us/s)						sb window (us)	-1.000 1.000
Bits/sample:	2x2	SampCntNorm: enabled							mb window (us)	-0.008 0.008
Data rate(MSamp/s):	128 MBpts	32 Amb	0.016 us						dr window (ns/s)	-0.011 0.011
Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite						ion window (TEC)	0.00 0.00
A: az 70.9 el 33.8 pa -119.7										B: az 209.4 el 37.7 pa 18.4
Control file: cf_1234_gmva										Input file: /Exps/c241b/v2/3mm/1234/No0618//AB..3MP1KJ
										Output file: /Exps/c241b/v2/3mm/1234/No0618//AB.W.2.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

aux01

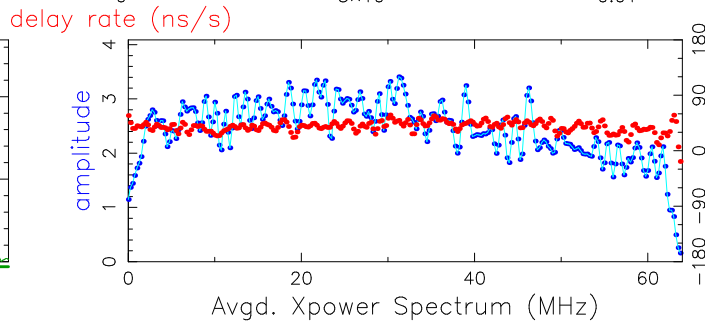
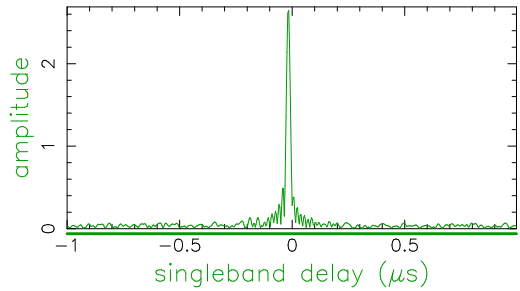
3C273.3MP1KJ, No0618, AB

ALMA - EFLSBERG, fgroup W, pol YR



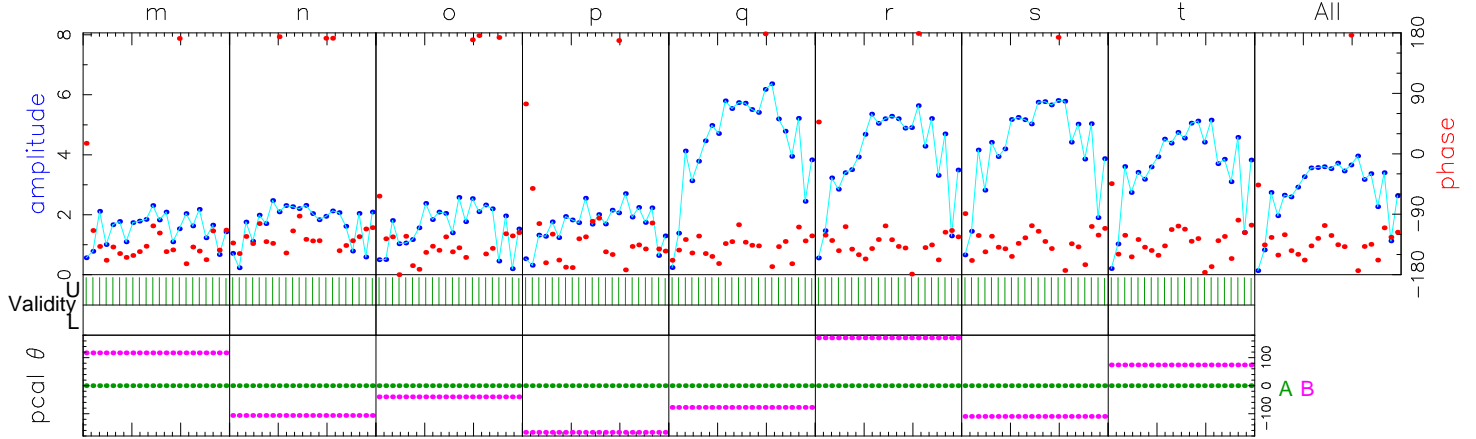
Fringe quality 4

SNR 98.6
 Int time 179.974
 Amp 2.689
 Phase -137.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.017320
 MBD -0.001797
 Fringe rate (Hz)
 0.009174
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234000.00
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build
 2024:359:200643
 2025:041:171319
 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
	-140.3	-134.4	-146.7	-139.8	-139.6	-138.8	-136.2	-131.5	Phase	-137.7
	1.4	1.6	1.5	1.4	4.2	3.7	4.0	3.4	Ampl.	2.6
	254.5	252.6	252.3	252.3	252.2	252.2	252.2	253.8	Sbd box	252.6
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	0:118	0:-106	0:-40	0:-167	0:-77	0:171	0:-110	0:74	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)	-3.11643519268E+03	Apriori delay (usec)	-3.11641777062E+03	Resid mbdelay (usec)	-1.79706E-03	+/-	1.1E-05
Sband delay (usec)	-3.11643509087E+03	Apriori clock (usec)	-2.0720217E+03	Resid sbdelay (usec)	-1.73202E-02	+/-	8.7E-05
Phase delay (usec)	-3.11641777506E+03	Apriori clockrate (us/s)	1.7870709E-07	Resid phdelay (usec)	-4.44026E-06	+/-	3.7E-08
Delay rate (us/s)	1.50640869003E+00	Apriori rate (us/s)	1.50640858353E+00	Resid rate (us/s)	1.06503E-07	+/-	3.6E-10
Total phase (deg)	-51.8	Apriori accel (us/s/s)	1.17482835173E-06	Resid phase (deg)	-137.7	+/-	1.2

ph/seg (deg)	27.1	Theor.	2.7	Amplitude	2.689 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	37.2		4.8	Search (1024X32)	2.593	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	5.0		1.6	Inc. seg. avg.	2.824	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	44.6		2.9	Inc. frq. avg.	2.649	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 70.9 el 33.8 pa -119.7 B: az 209.4 el 37.7 pa 18.4 u,v (fr/asec) -8634.163 -10270.791 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618//AB..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618//AB.W.6.3MP1KJ

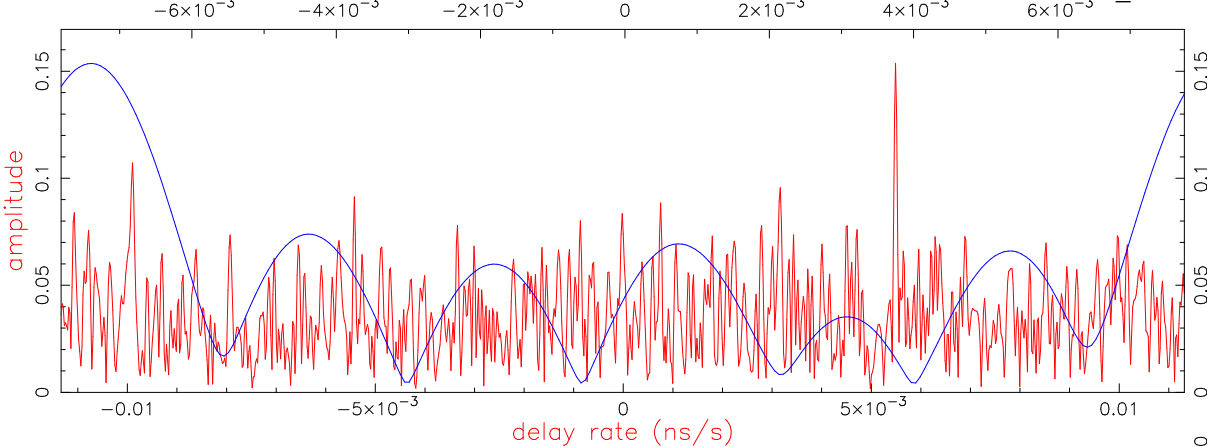
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, AG

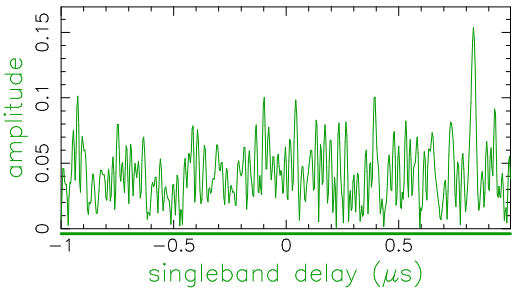
ALMA - GBT_COLD, fgroup W, pol XR

multiband delay (μ s)

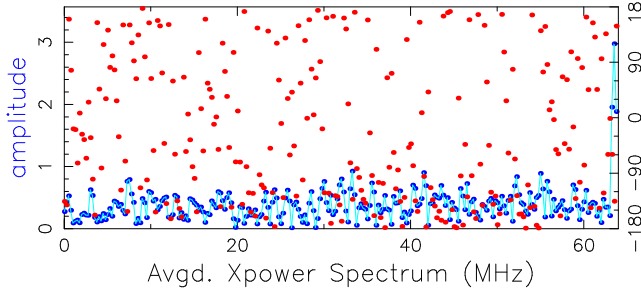


Fringe quality 0

SNR 5.5
 Int time 170.784
 Amp 0.170
 Phase 168.2
 PFD 9.9e-01
 Delays (us)
 SBD 0.832163
 MBD -0.007402
 Fringe rate (Hz)
 0.473333
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

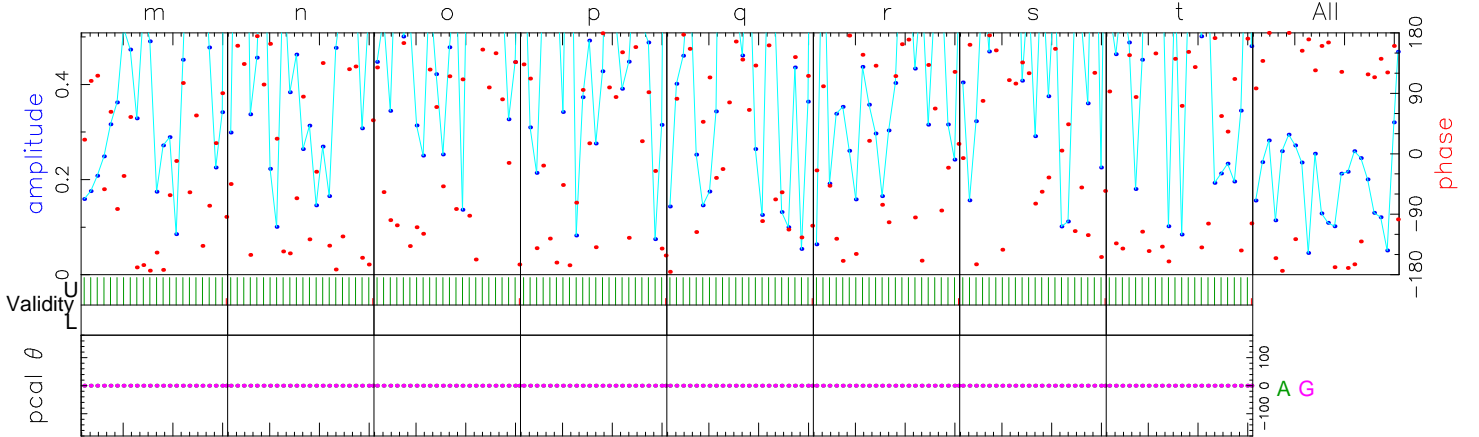


delay rate (ns/s)



Exp. c241b
 Yr:day 1234
 Start 2024:110
 Stop 2024:110
 FRT 234134.00
 Corr/FF/build
 2024:359:200643
 2025:041:171344
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 23 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
	-77.6	165.1	-176.3	158.9	129.9	167.8	151.1	-176.2	Phase	168.2
	0.0	0.3	0.2	0.2	0.1	0.2	0.2	0.3	Ampl.	0.2
	267.2	471.5	267.2	220.8	374.3	20.0	230.6	164.6	Sbd box	470.0
U/L	334/0	334/0	334/0	334/0	334/0	334/0	334/0	334/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
A:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:G	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	
G	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UX	W12UX	W13UX	W14UX	W15UX	W16UX	W17UX	W18UX	Chan ids	
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	1.96932235208E+03	Apriori delay (usec)	1.96848600440E+03	Resid mbdelay (usec)	-7.40233E-03	+/-	2.0E-04
Sband delay (usec)	1.96931816740E+03	Apriori clock (usec)	-2.0927869E+03	Resid sbdelay (usec)	8.32163E-01	+/-	1.6E-03
Phase delay (usec)	1.96848600983E+03	Apriori clockrate (us/s)	-8.1214983E-08	Resid phdelay (usec)	5.42501E-06	+/-	6.7E-07
Delay rate (us/s)	2.82576576741E-02	Apriori rate (us/s)	2.82521627446E-02	Resid rate (us/s)	5.49493E-06	+/-	6.8E-09
Total phase (deg)	319.2	Apriori accel (us/s/s)	-2.54064664210E-05	Resid phase (deg)	168.2	+/-	20.9

ph/seg (deg)	RMS 38.3	Theor. 50.1	Amplitude Search (1024X32)	0.170 +/- 0.031	0.152	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	61.2	87.4	Interp.	0.000	0.152	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	50.6	29.5	Inc. seg. avg.	0.157	0.157	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	53.7	51.5	Inc. frq. avg.	0.161	0.161	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 70.9 el 33.8 pa -119.7 G: az 105.4 el 21.4 pa -49.1 u,v (fr/asec) -177.817 -9012.869 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618//AG..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618//AG.W.114.3MP1KJ

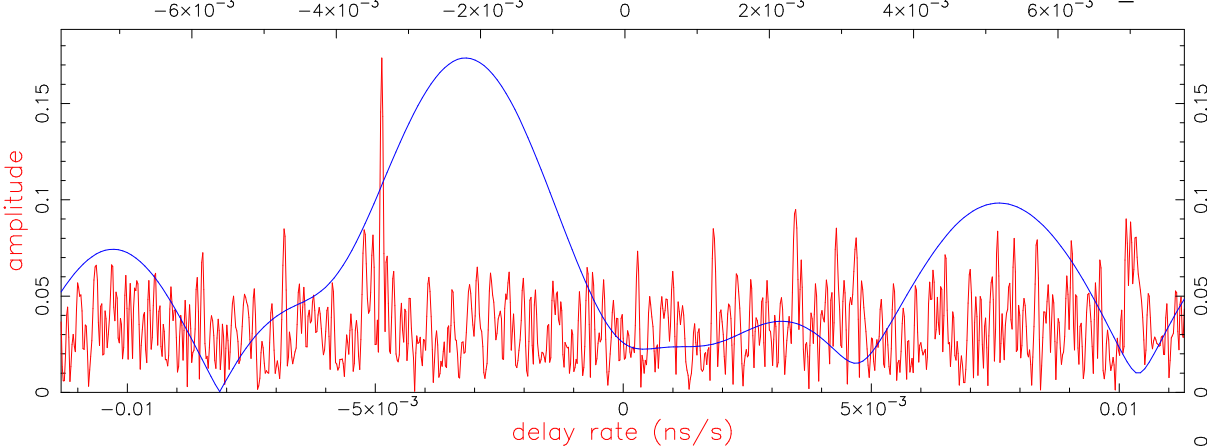
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, AG

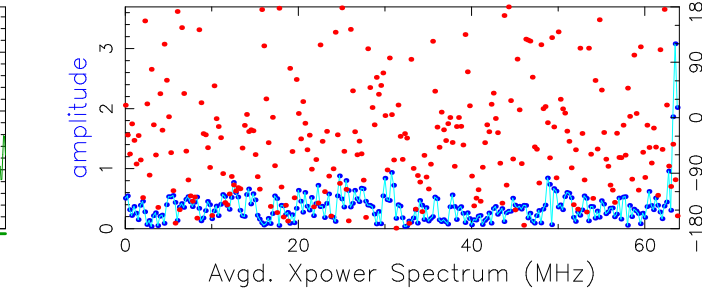
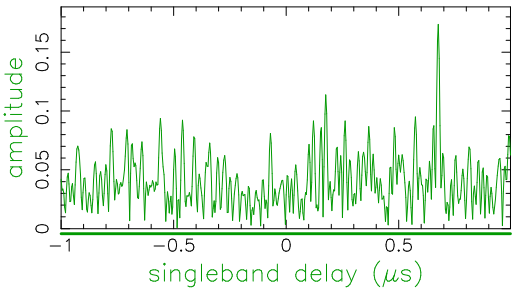
ALMA - GBT_COLD, fgroup W, pol YL

multiband delay (μ s)



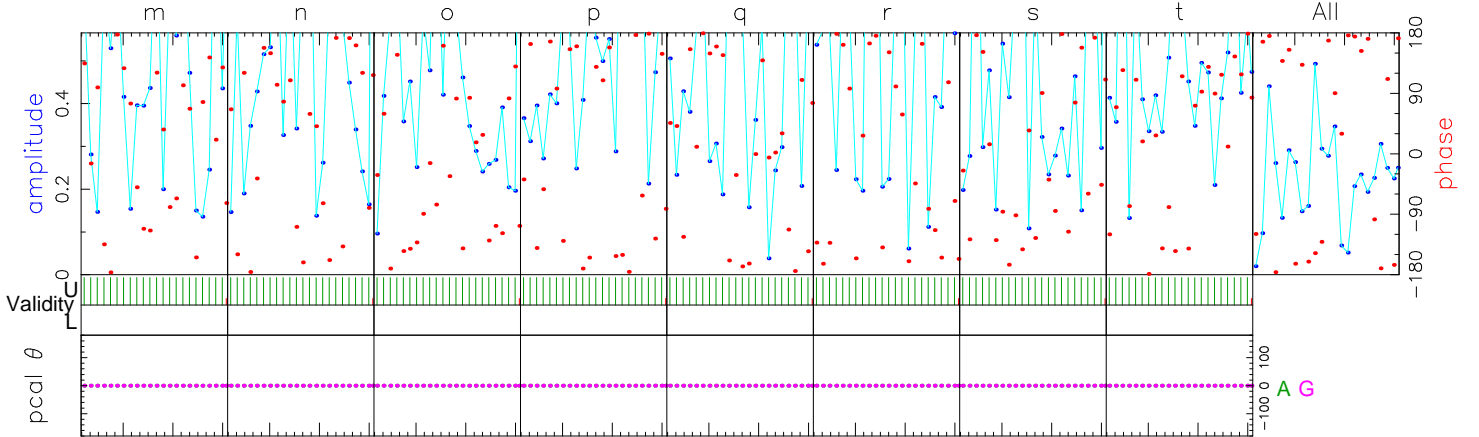
Fringe quality 0

SNR 6.2
 Int time 170.784
 Amp 0.189
 Phase 176.5
 PFD 5.9e-02
 Delays (us)
 SBD 0.675023
 MBD -0.002186
 Fringe rate (Hz)
 -0.420275
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234009.22
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build
 2024:359:200643
 2025:041:171346
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 23 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
	144.9	154.7	-114.8	-171.0	-173.4	170.2	-137.4	132.5	Phase	176.5
	0.1	0.2	0.1	0.4	0.2	0.3	0.2	0.3	Ampl.	0.2
	154.9	313.9	499.8	80.8	477.2	429.8	75.4	215.5	Sbd box	429.8
U/L	334/0	334/0	334/0	334/0	334/0	334/0	334/0	334/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
A:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:G	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	
G	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UY	W12UY	W13UY	W14UY	W15UY	W16UY	W17UY	W18UY	Chan ids	
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	1.96915569292E+03	Apriori delay (usec)	1.96848600440E+03	Resid mbdelay (usec)	-2.18648E-03	+/-	1.7E-04
Sband delay (usec)	1.96916102765E+03	Apriori clock (usec)	-2.0927869E+03	Resid sbdelay (usec)	6.75023E-01	+/-	1.4E-03
Phase delay (usec)	1.96848601010E+03	Apriori clockrate (us/s)	-8.1214983E-08	Resid phdelay (usec)	5.69007E-06	+/-	5.9E-07
Delay rate (us/s)	2.82472837713E-02	Apriori rate (us/s)	2.82521627446E-02	Resid rate (us/s)	-4.87897E-06	+/-	6.0E-09
Total phase (deg)	327.5	Apriori accel (us/s/s)	-2.54064664210E-05	Resid phase (deg)	176.5	+/-	18.4

ph/seg (deg)	RMS 49.6	Theor. 44.1	Amplitude 49.6	0.189 +/- 0.030	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	71.8	76.9	Search (1024X32)	0.168	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	42.0	26.0	Inc. seg. avg.	0.189	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256 t_cohere infinite	dr window (ns/s)	-0.011	0.011
amp/frq (%)	49.2	45.4	Inc. frq. avg.	0.199	Data rate(Mb/s): 2048	ion window (TEC)	0.00	0.00	

A: az 70.9 el 33.8 pa -119.7 G: az 105.4 el 21.4 pa -49.1 u,v (fr/asec) -177.817 -9012.869 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618//AG..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618//AG.W.122.3MP1KJ

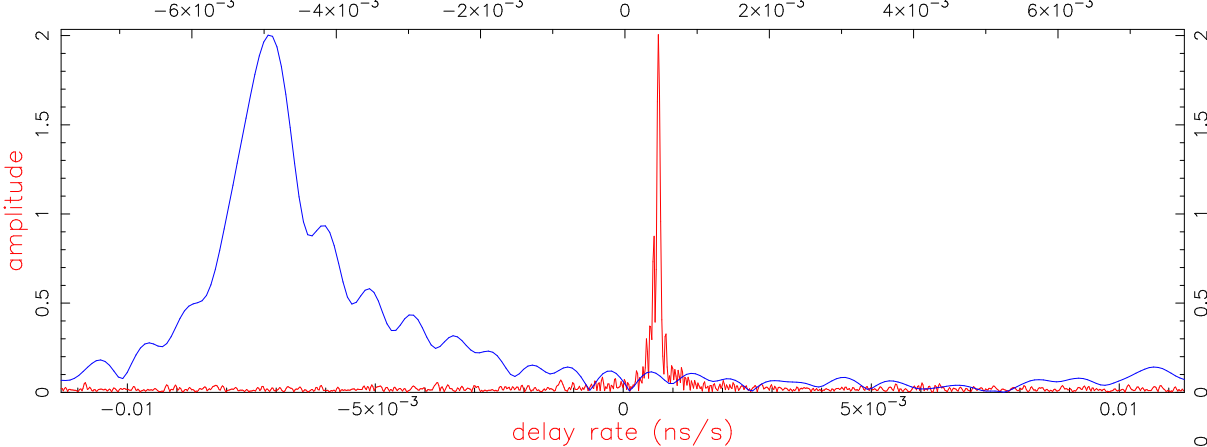
Mk4/DiFX fourfit 3.25 rev 0

aux01

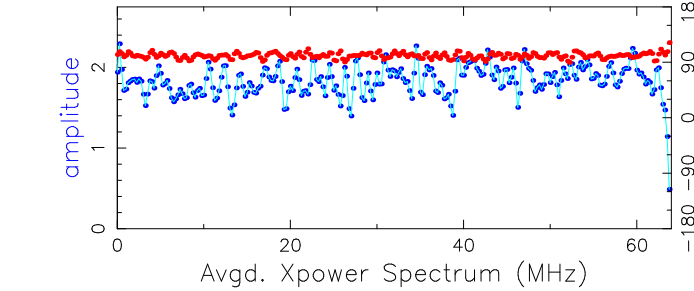
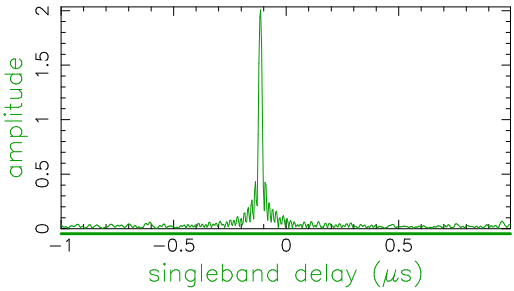
3C273.3MP1KJ, No0618, Ag

ALMA - GLT, fgroup W, pol YL

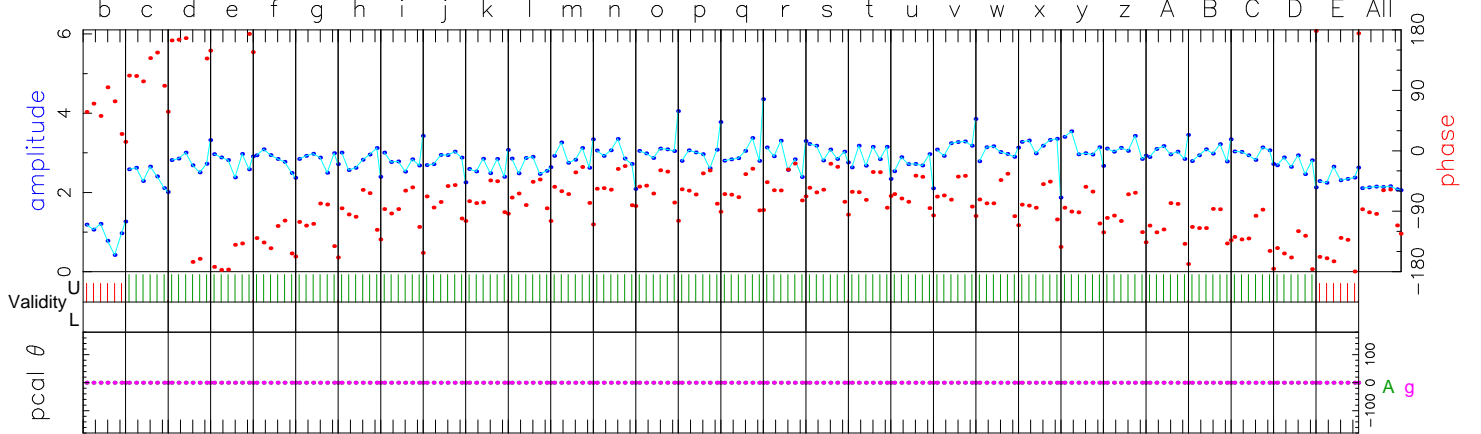
multiband delay (μ s)



Fringe quality 5
 Error code G
 SNR 142.8
 Int time 176.134
 Amp 2.035
 Phase -83.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.114662
 MBD -0.004925
 Fringe rate (Hz)
 0.062246
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234000.00
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build
 2025:04:171346
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"



Amp. and Phase vs. time for each freq., 7 segs, 58 APs / seg (29.70 sec / seg.), time ticks 60 sec



85308.0085372	0085436	0085500	0085564	0085628	0085692	0085756	0085820	0085884	0085948	0086012	0086076	0086140	0086204	0086268	0086332	0086396	0086460	0086524	0086588	0086652	0086716	0086780	0086844	0086908	0086972	0087036	0087100	0087164	0087228	0087292	0087356	0087420	0087484	0087548	0087612	0087676	0087740	0087804	0087868	0087932	0087996	0088060	0088124	0088188	0088252	0088316	0088380	0088444	0088508	0088572	0088636	0088700	0088764	0088828	0088892	0088956	0089020	0089084	0089148	0089212	0089276	0089340	0089404	0089468	0089532	0089596	0089660	0089724	0089788	0089852	0089916	0089980	0090044	0090108	0090172	0090236	0090300	0090364	0090428	0090492	0090556	0090620	0090684	0090748	0090812	0090876	0090940	0090908	0091000	0091092	0091184	0091276	0091368	0091460	0091552	0091644	0091736	0091828	0091920	0092012	0092104	0092196	0092288	0092380	0092472	0092564	0092656	0092748	0092840	0092932	0093024	0093116	0093208	0093300	0093392	0093484	0093576	0093668	0093760	0093852	0093944	0094036	0094128	0094220	0094312	0094404	0094496	0094588	0094680	0094772	0094864	0094956	0095048	0095140	0095232	0095324	0095416	0095508	0095600	0095692	0095784	0095876	0095968	0096060	0096152	0096244	0096336	0096428	0096520	0096612	0096704	0096796	0096888	0096980	0097072	0097164	0097256	0097348	0097440	0097532	0097624	0097716	0097808	0097900	0097992	0098084	0098176	0098268	0098360	0098452	0098544	0098636	0098728	0098820	0098912	0099004	0099096	0099188	0099280	0099372	0099464	0099556	0099648	0099740	0099832	0099924	0100016	0100108	0100200	0100292	0100384	0100476	0100568	0100660	0100752	0100844	0100936	0101028	0101120	0101212	0101304	0101396	0101488	0101580	0101672	0101764	0101856	0101948	0102040	0102132	0102224	0102316	0102408	0102500	0102592	0102684	0102776	0102868	0102960	0103052	0103144	0103236	0103328	0103420	0103512	0103604	0103696	0103788	0103880	0103972	0104064	0104156	0104248	0104340	0104432	0104524	0104616	0104708	0104800	0104892	0104984	0105076	0105168	0105260	0105352	0105444	0105536	0105628	0105720	0105812	0105904	0106000	0106092	0106184	0106276	0106368	0106460	0106552	0106644	0106736	0106828	0106920	0107012	0107104	0107196	0107288	0107380	0107472	0107564	0107656	0107748	0107840	0107932	0108024	0108116	0108208	0108300	0108392	0108484	0108576	0108668	0108760	0108852	0108944	0109036	0109128	0109220	0109312	0109404	0109496	0109588	0109680	0109772	0109864	0109956	0110048	0110140	0110232	0110324	0110416	0110508	0110600	0110692	0110784	0110876	0110968	0111060	0111152	0111244	0111336	0111428	0111520	0111612	0111704	0111796	0111888	0111980	0112072	0112164	0112256	0112348	0112440	0112532	0112624	0112716	0112808	0112900	0112992	0113084	0113176	0113268	0113360	0113452	0113544	0113636	0113728	0113820	0113912	0114004	0114096	0114188	0114280	0114372	0114464	0114556	0114648	0114740	0114832	0114924	0115016	0115108	0115200	0115292	0115384	0115476	0115568	0115660	0115752	0115844	0115936	0116028	0116120	0116212	0116304	0116396	0116488	0116580	0116672	0116764	0116856	0116948	0117040	0117132	0117224	0117316	0117408	0117500	0117592	0117684	0117776	0117868	0117960	0118052	0118144	0118236	0118328	0118420	0118512	0118604	0118696	0118788	0118880	0118972	0119064	0119156	0119248	0119340	0119432	0119524	0119616	0119708	0119800	0119892	0119984	0120076	0120168	0120260	0120352	0120444	0120536	0120628	0120720	0120812	0120904	0121000	0121092	0121184	0121276	0121368	0121460	0121552	0121644	0121736	0121828	0121920	0122012	0122104	0122196	0122288	0122380	0122472	0122564	0122656	0122748	0122840	0122932	0123024	0123116	0123208	0123300	0123392	0123484	0123576	0123668	0123760	0123852	0123944	0124036	0124128	0124220	0124312	0124404	0124496	0124588	0124680	0124772	0124864	0124956	0125048	0125140	0125232	0125324	0125416	0125508	0125600	0125692	0125784	0125876	0125968	0126060	0126152	0126244	0126336	0126428	0126520	0126612	0126704	0126796	0126888	0126980	0127072	0127164	0127256	0127348	0127440	0127532	0127624	0127716	0127808	0127900	0127992	0128084	0128176	0128268	0128360	0128452	0128544	0128636	0128728	0128820	0128912	0129004	0129096	0129188	0129280	0129372	0129464	0129556	0129648	0129740	0129832	0129924	0130016	0130108	0130200	0130292	0130384	0130476	0130568	0130660	0130752	0130844	0130936	0131028	0131120	0131212	0131304	0131396	0131488	0131580	0131672	0131764	0131856	0131948	0132040	0132132	0132224	0132316	0132408	0132500	0132592	0132684	0132776	0132868	0132960	0133052	0133144	0133236	0133328	0133420	0133512	0133604	0133696	0133788	0133880	0133972	0134064	0134156	0134248	0134340	0134432	0134524	0134616	0134708	0134800	0134892	0134984	0135076	0135168	0135260	0135352	0135444	0135536	0135628	0135720	0135812	0135904	0136000	0136092	0136184	0136276	0136368	0136460	0136552	0136644	0136736	0136828	0136920	0137012	0137104	0137196	0137288	0137380	0137472	0137564	0137656	0137748	0137840	0137932	0138024	0138116	0138208	0138300	0138392	0138484	0138576	0138668	0138760	0138852	0138944	0139036	0139128	0139220	0139312	0139404	0139496	0139588	0139680	0139772	0139864	0139956	0140048	0140140	0140232	0140324	0140416	0140508	0140600	0140692	0140784	0140876	0140968	0141060	0141152	0141244	0141336	0141428	0141520	0141612	0141704	0141796	0141888	0141980	0142072	0142164	0142256	0142348	0142440	0142532	0142624	0142716	0142808	0142900	0142992	0143084	0143176	0143268	0143360	0143452	0143544	0143636	0143728	0143820	0143912	0144004	0144096	0144188	0144280	0144372	0144464	0144556	0144648	0144740	0144832	0144924	0145016	0145108	0145200	0145292	0145384	0145476	0145568	0145660	0145752	0145844	0145936	0146028	0146120	0146212	0146304	0146396	0146488	0146580	0146672	0146764	0146856	0146948	0147040	0147132	0147224	0147316	0147408	0147500	0147592	0147684	0147776	0147868	0147960	0148052	0148144	0148236	0148328	0148420	0148512	0148604	0148696	0148788	0148880	0148972	0149064	0149156	0149248	0149340	0149432	0149524	0149616	0149708	0149800	0149892	0149984	0150076	0150168	0150260	0150352	0150444	0150536	0150628	0150720	0150812	0150904	0151000	0151092	0151184	0151276	0151368	0151460	0151552	0151644	0151736	0151828	0151920	0152012	0152104	0152196	0152288	0152380	0152472	0152564	0152656	0152748	0152840	0152932	0153024	0153116	0153208	0153300	0153392	0153484	0153576	0153668	0153760	0153852	0153944	0154036	0154128	0154220	0154312	0154404	0154496	0154588	0154680	0154772	0154864	0154956	0155048	0155140	0155232	0155324	0155416	0155508	0155600	0155692	0155784	0155876	0155968	0156060	0156152	0156244	0156336	0156428	0156520	0156612	0156704	0156796	0156888	0156980	0157072	0157164	0157256	0157348	0157440	0157532	0157624	0157716	0157808	0157900	0157992	0158084	0158176	0158268	0158360	0158452	0158544	0158636	0158728	0158820	0158912	0159004	0159096	0159188	0159280	0159372	0159464	0159556	0159648	0159740	0159832	0159924	0160016	0160108	0160200	0160292	0160384	0160476	0160568	0160660	0160752	0160844	0160936	0161028	0161120	0161212	0161304	0161396	0161488	0161580	0161672	0161764	0161856	0161948	0162040	0162
---------------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	------

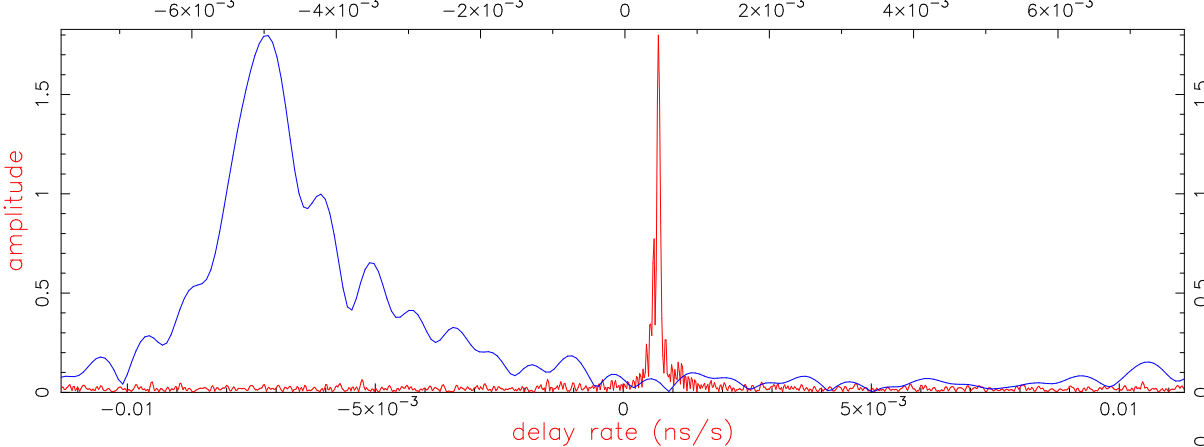
Mk4/DiFX fourfit 3.25 rev 0

aux01

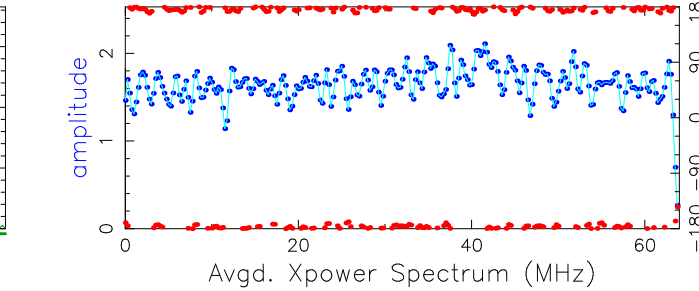
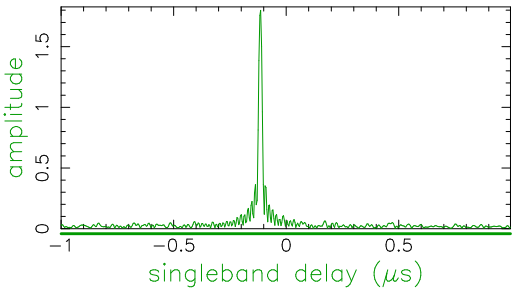
3C273.3MP1KJ, No0618, Ag

ALMA - GLT, fgroup W, pol XL

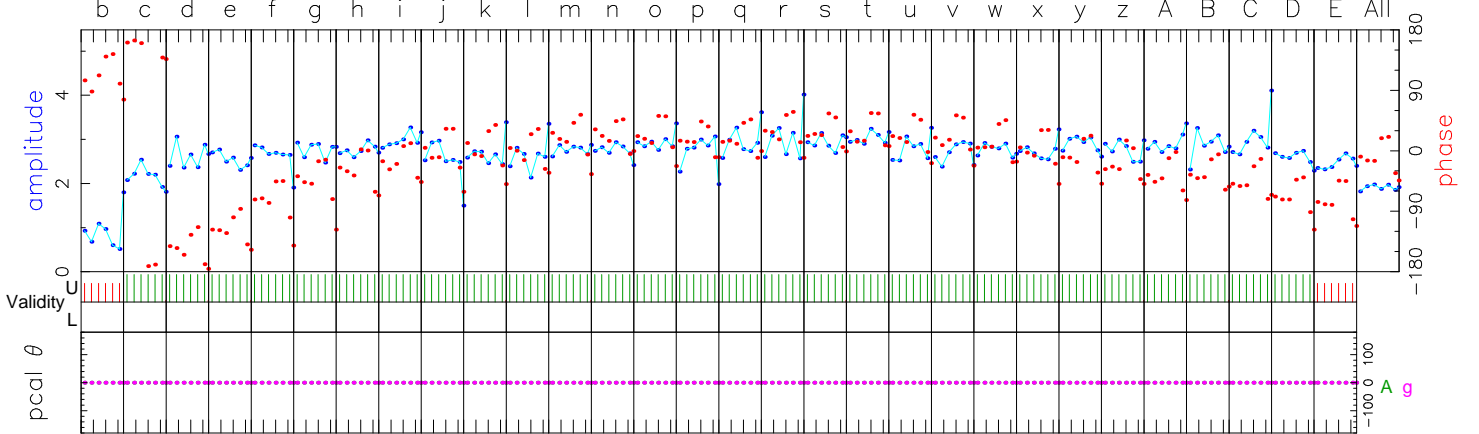
multiband delay (μ s)



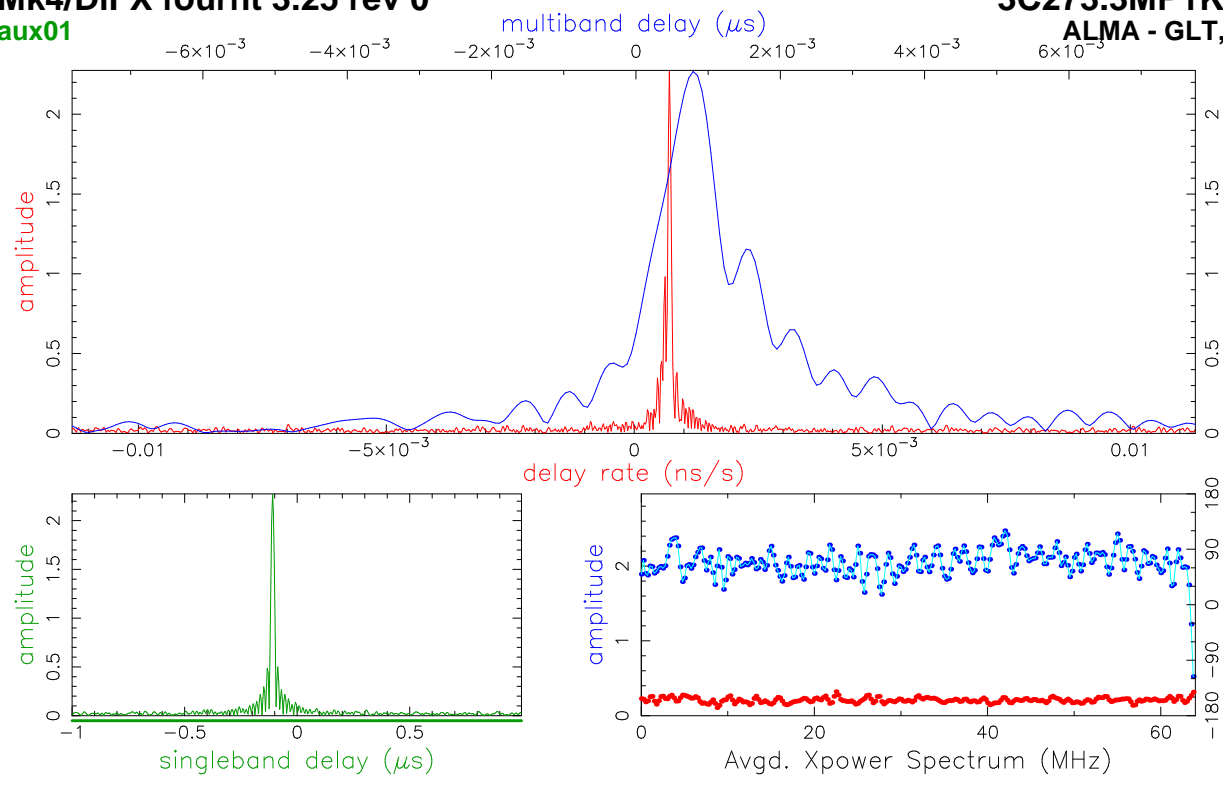
Fringe quality 4
 Error code G
 SNR 128.3
 Int time 176.134
 Amp 1.828
 Phase -5.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.114754
 MBD -0.004970
 Fringe rate (Hz)
 0.062225
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234000.00
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build
 2025:04:171323
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"



Amp. and Phase vs. time for each freq., 7 segs, 58 APs / seg (29.70 sec / seg.), time ticks 60 sec



85308.0085372	0.085436	0.085500	0.085564	0.085628	0.085692	0.085756	0.085820	0.085884	0.085948	0.086012	0.086076	0.086140	0.086204	0.086268	0.086332	0.086396	0.086460	0.086524	0.086588	0.086652	0.086716	0.086780	0.086844	0.086908	0.086972	0.087036	0.087100	0.087164	0.087228	0.087292	0.087356	0.087420	0.087484	0.087548	0.087612	0.087676	0.087740	0.087804	0.087868	0.087932	0.087996	0.088060	0.088124	0.088188	0.088252	0.088316	0.088380	0.088444	0.088508	0.088572	0.088636	0.088700	0.088764	0.088828	0.088892	0.088956	0.089020	0.089084	0.089148	0.089212	0.089276	0.089340	0.089404	0.089468	0.089532	0.089596	0.089660	0.089724	0.089788	0.089852	0.089916	0.089980	0.090044	0.090108	0.090172	0.090236	0.090300	0.090364	0.090428	0.090492	0.090556	0.090620	0.090684	0.090748	0.090812	0.090876	0.090940	0.091004	0.091068	0.091132	0.091196	0.091260	0.091324	0.091388	0.091452	0.091516	0.091580	0.091644	0.091708	0.091772	0.091836	0.091900	0.091964	0.092028	0.092092	0.092156	0.092220	0.092284	0.092348	0.092412	0.092476	0.092540	0.092604	0.092668	0.092732	0.092796	0.092860	0.092924	0.092988	0.093052	0.093116	0.093180	0.093244	0.093308	0.093372	0.093436	0.093500	0.093564	0.093628	0.093692	0.093756	0.093820	0.093884	0.093948	0.094012	0.094076	0.094140	0.094204	0.094268	0.094332	0.094396	0.094460	0.094524	0.094588	0.094652	0.094716	0.094780	0.094844	0.094908	0.094972	0.095036	0.095100	0.095164	0.095228	0.095292	0.095356	0.095420	0.095484	0.095548	0.095612	0.095676	0.095740	0.095804	0.095868	0.095932	0.095996	0.096060	0.096124	0.096188	0.096252	0.096316	0.096380	0.096444	0.096508	0.096572	0.096636	0.096700	0.096764	0.096828	0.096892	0.096956	0.097020	0.097084	0.097148	0.097212	0.097276	0.097340	0.097404	0.097468	0.097532	0.097596	0.097660	0.097724	0.097788	0.097852	0.097916	0.097980	0.098044	0.098108	0.098172	0.098236	0.098300	0.098364	0.098428	0.098492	0.098556	0.098620	0.098684	0.098748	0.098812	0.098876	0.098940	0.099004	0.099068	0.099132	0.099196	0.099260	0.099324	0.099388	0.099452	0.099516	0.099580	0.099644	0.099708	0.099772	0.099836	0.099900	0.099964	0.100028	0.100092	0.100156	0.100220	0.100284	0.100348	0.100412	0.100476	0.100540	0.100604	0.100668	0.100732	0.100796	0.100860	0.100924	0.100988	0.101052	0.101116	0.101180	0.101244	0.101308	0.101372	0.101436	0.101500	0.101564	0.101628	0.101692	0.101756	0.101820	0.101884	0.101948	0.102012	0.102076	0.102140	0.102204	0.102268	0.102332	0.102396	0.102460	0.102524	0.102588	0.102652	0.102716	0.102780	0.102844	0.102908	0.102972	0.103036	0.103100	0.103164	0.103228	0.103292	0.103356	0.103420	0.103484	0.103548	0.103612	0.103676	0.103740	0.103804	0.103868	0.103932	0.103996	0.104060	0.104124	0.104188	0.104252	0.104316	0.104380	0.104444	0.104508	0.104572	0.104636	0.104700	0.104764	0.104828	0.104892	0.104956	0.105020	0.105084	0.105148	0.105212	0.105276	0.105340	0.105404	0.105468	0.105532	0.105596	0.105660	0.105724	0.105788	0.105852	0.105916	0.105980	0.106044	0.106108	0.106172	0.106236	0.106300	0.106364	0.106428	0.106492	0.106556	0.106620	0.106684	0.106748	0.106812	0.106876	0.106940	0.107004	0.107068	0.107132	0.107196	0.107260	0.107324	0.107388	0.107452	0.107516	0.107580	0.107644	0.107708	0.107772	0.107836	0.107900	0.107964	0.108028	0.108092	0.108156	0.108220	0.108284	0.108348	0.108412	0.108476	0.108540	0.108604	0.108668	0.108732	0.108796	0.108860	0.108924	0.108988	0.109052	0.109116	0.109180	0.109244	0.109308	0.109372	0.109436	0.109500	0.109564	0.109628	0.109692	0.109756	0.109820	0.109884	0.109948	0.110012	0.110076	0.110140	0.110204	0.110268	0.110332	0.110396	0.110460	0.110524	0.110588	0.110652	0.110716	0.110780	0.110844	0.110908	0.110972	0.111036	0.111100	0.111164	0.111228	0.111292	0.111356	0.111420	0.111484	0.111548	0.111612	0.111676	0.111740	0.111804	0.111868	0.111932	0.111996	0.112060	0.112124	0.112188	0.112252	0.112316	0.112380	0.112444	0.112508	0.112572	0.112636	0.112700	0.112764	0.112828	0.112892	0.112956	0.113020	0.113084	0.113148	0.113212	0.113276	0.113340	0.113404	0.113468	0.113532	0.113596	0.113660	0.113724	0.113788	0.113852	0.113916	0.113980	0.114044	0.114108	0.114172	0.114236	0.114300	0.114364	0.114428	0.114492	0.114556	0.114620	0.114684	0.114748	0.114812	0.114876	0.114940	0.115004	0.115068	0.115132	0.115196	0.115260	0.115324	0.115388	0.115452	0.115516	0.115580	0.115644	0.115708	0.115772	0.115836	0.115900	0.115964	0.116028	0.116092	0.116156	0.116220	0.116284	0.116348	0.116412	0.116476	0.116540	0.116604	0.116668	0.116732	0.116796	0.116860	0.116924	0.116988	0.117052	0.117116	0.117180	0.117244	0.117308	0.117372	0.117436	0.117500	0.117564	0.117628	0.117692	0.117756	0.117820	0.117884	0.117948	0.118012	0.118076	0.118140	0.118204	0.118268	0.118332	0.118396	0.118460	0.118524	0.118588	0.118652	0.118716	0.118780	0.118844	0.118908	0.118972	0.119036	0.119100	0.119164	0.119228	0.119292	0.119356	0.119420	0.119484	0.119548	0.119612	0.119676	0.119740	0.119804	0.119868	0.119932	0.119996	0.120060	0.120124	0.120188	0.120252	0.120316	0.120380	0.120444	0.120508	0.120572	0.120636	0.120700	0.120764	0.120828	0.120892	0.120956	0.121020	0.121084	0.121148	0.121212	0.121276	0.121340	0.121404	0.121468	0.121532	0.121596	0.121660	0.121724	0.121788	0.121852	0.121916	0.121980	0.122044	0.122108	0.122172	0.122236	0.122300	0.122364	0.122428	0.122492	0.122556	0.122620	0.122684	0.122748	0.122812	0.122876	0.122940	0.123004	0.123068	0.123132	0.123196	0.123260	0.123324	0.123388	0.123452	0.123516	0.123580	0.123644	0.123708	0.123772	0.123836	0.123900	0.123964	0.124028	0.124092	0.124156	0.124220	0.124284	0.124348	0.124412	0.124476	0.124540	0.124604	0.124668	0.124732	0.124796	0.124860	0.124924	0.124988	0.125052	0.125116	0.125180	0.125244	0.125308	0.125372	0.125436	0.125500	0.125564	0.125628	0.125692	0.125756	0.125820	0.125884	0.125948	0.126012	0.126076	0.126140	0.126204	0.126268	0.126332	0.126396	0.126460	0.126524	0.126588	0.126652	0.126716	0.126780	0.126844	0.126908	0.126972	0.127036	0.127100	0.127164	0.127228	0.127292	0.127356	0.127420	0.127484	0.127548	0.127612	0.127676	0.127740	0.127804	0.127868	0.127932	0.127996	0.128060	0.128124	0.128188	0.128252	0.128316	0.128380	0.128444	0.128508	0.128572	0.128636	0.128700	0.128764	0.128828	0.128892	0.128956	0.129020	0.129084	0.129148	0.129212	0.129276	0.129340	0.129404	0.129468	0.129532	0.129596	0.129660	0.129724	0.129788	0.129852	0.129916	0.129980	0.130044	0.130108	0.130172	0.130236	0.130300	0.130364	0.130428	0.130492	0.130556	0.130620	0.130684	0.130748	0.130812	0.130876	0.130940	0.131004	0.131068	0.131132	0.131196	0.131260	0.131324	0.131388	0.131452	0.131516	0.131580	0.131644	0.131708	0.131772	0.131836	0.131900	0.131964	0.132028	0.132092	0.132156	0.132220	0.132284	0.132348	0.132412	0.132476	0.132540	0.132604	0.132668	0.132732	0.132796	0.132860	0.132924	0.132988	0.133052	0.133116	0.133180	0.133244	0.133308	0.133372	0.133436	0.133500	0.133564	0.133628	0.133692	0.133756	0.133820	0.133884	0.133948	0.134012	0.134076	0.134140	0.134204	0.134268	0.134332	0.134396	0.134460	0.134524	0.134588	0.134652	0.134716	0.134780	0.134844	0.134908	0.134972	0.135036	0.135100	0.135164	0.135228	0.135292	0.135356	0.135420	0.135484	0.135548	0.135612	0.135676	0.135740	0.135804	0.135868	0.135932	0.135996	0.136060	0.136124	0.136188	0.136252	0.136316	0.136380	0.136444	0.136508</
---------------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	------------

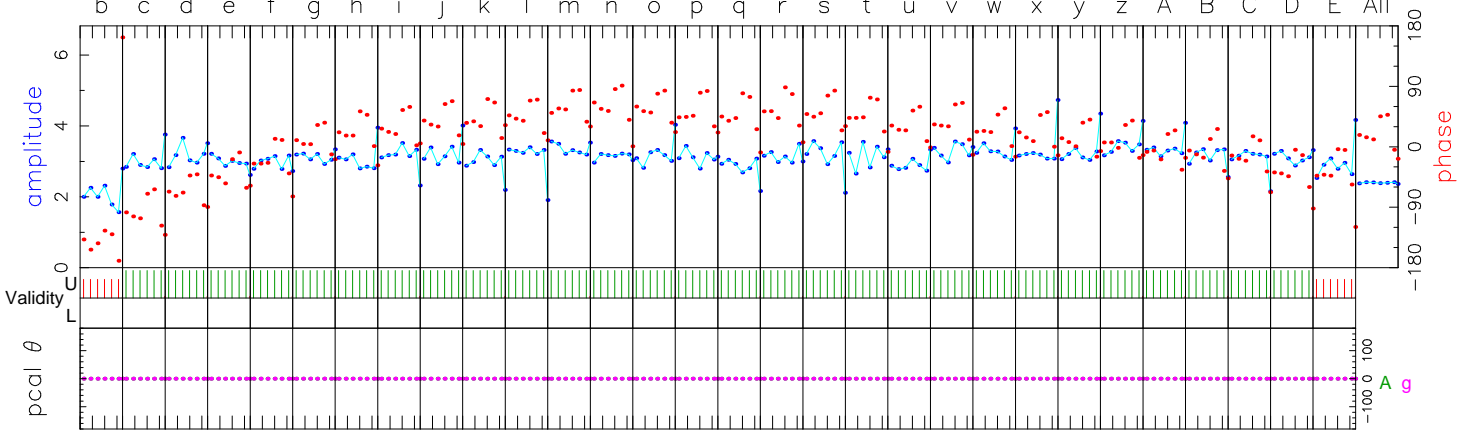


Fringe quality 5

SNR 159.6
Int time 176.136
Amp 2.275
Phase 21.3
PFD 0.0e+00
Delays (us)
SBD -0.108907
MBD 0.000802
Fringe rate (Hz) 0.062233
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c241b
Exper # 1234
Yr:day 2024:110
Start 234000.00
Stop 234300.23
FRT 234134.00
Corr/FF/build
2024:359:200643
2025:041:171332
2024:113:095956
RA & Dec (J2000)
12h29m06.699742s
+02°03'08.598116"

Amp. and Phase vs. time for each freq., 7 segs, 58 APs / seg (29.70 sec / seg.), time ticks 60 sec



85308.0085372	0085436	0085500	0085564	0085628	0085692	0085756	0085820	0085884	0085948	0086012	0086076	0086140	0086204	0086268	0086332	0086396	0086460	0086524	0086588	0086652	0086716	0086780	0086844	0086908	0086972	0087036	0087100	0087164	0087228	All						
-142.8	-93.5	-64.0	-38.7	-16.1	12.0	25.0	30.6	41.8	41.9	47.6	61.0	64.8	60.3	53.8	49.6	56.6	53.2	48.8	33.9	39.4	28.5	23.1	12.7	10.5	-3.7	-5.8	-10.8	-34.2	-32.7	Phase	21.3					
1.9	2.8	3.0	2.9	2.8	3.0	2.8	3.0	3.0	2.9	3.1	3.2	3.0	3.0	2.9	2.7	3.0	3.1	3.0	2.7	3.1	3.1	3.0	3.0	3.2	3.1	3.0	3.0	2.9	2.6	Ampl.	2.9					
230.4	229.6	229.5	229.5	229.8	229.4	229.3	229.2	228.9	228.7	228.7	229.3	229.1	229.0	229.4	229.2	229.0	228.8	228.6	229.1	228.9	228.8	229.1	229.2	229.3	229.3	229.2	228.8	229.8	229.8	Sbd box	229.1					
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	0					
A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC freqs	0				
g	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC freqs	0			
Ag	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	PC phase	0			
Ag	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ManI PC	0		
A	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	0	
g	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
A	W00UY	W01UY	W02UY	W03UY	W04UY	W05UY	W06UY	W07UY	W08UY	W09UY	W10UY	W11UY	W12UY	W13UY	W14UY	W15UY	W16UY	W17UY	W18UY	W19UY	W20UY	W21UY	W22UY	W23UY	W24UY	W25UY	W26UY	W27UY	W28UY	W29UY		Chan ids				
g	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	W20UR	W21UR	W22UR	W23UR	W24UR	W25UR	W26UR	W27UR	W28UR	W29UR	W30UR		Chan ids				

Group delay (usec) (SBD)	6.11588017305E+03	Apriori delay (usec)	6.11598874555E+03	Resid mbdelay (usec)	8.02499E-04	+/-	1.8E-06
Sband delay (usec)	6.11587983805E+03	Apriori clock (usec)	-2.1077383E+03	Resid sbdelay (usec)	-1.08907E-01	+/-	5.4E-05
Phase delay (usec)	6.11598874624E+03	Apriori clockrate (us/s)	-7.9515387E-07	Resid phdelay (usec)	6.86915E-07	+/-	2.3E-08
Delay rate (us/s)	8.29918088487E-01	Apriori rate (us/s)	8.29917366026E-01	Resid rate (us/s)	7.22461E-07	+/-	2.2E-10
Total phase (deg)	216.4	Apriori accel (us/s/s)	-4.88674119524E-05	Resid phase (deg)	21.3	+/-	0.7

ph/seg (deg)	RMS 19.0	Theor. 0.9	Amplitude Search (1024X128)	2.275 +/- 0.014	2.193	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	5.6	1.7	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	51.1	2.0	Inc. seg. avg.	2.402	Data rate(MSamp/s): 128 MBpts 128 Amb 0.016 us	dr window (ns/s) -0.011 0.011	
amp/frq (%)	30.7	3.4	Inc. frq. avg.	2.947	Data rate(Mb/s): 7680	nlags: 256 t_cohere infinite	ion window (TEC) 0.00 0.00

A: az 70.9 el 33.8 pa -119.7 g: az 126.1 el 10.0 pa -10.8 u,v (fr/asec) -4784.955 -12187.296 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618//Ag..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618//Ag.W.50.3MP1KJ

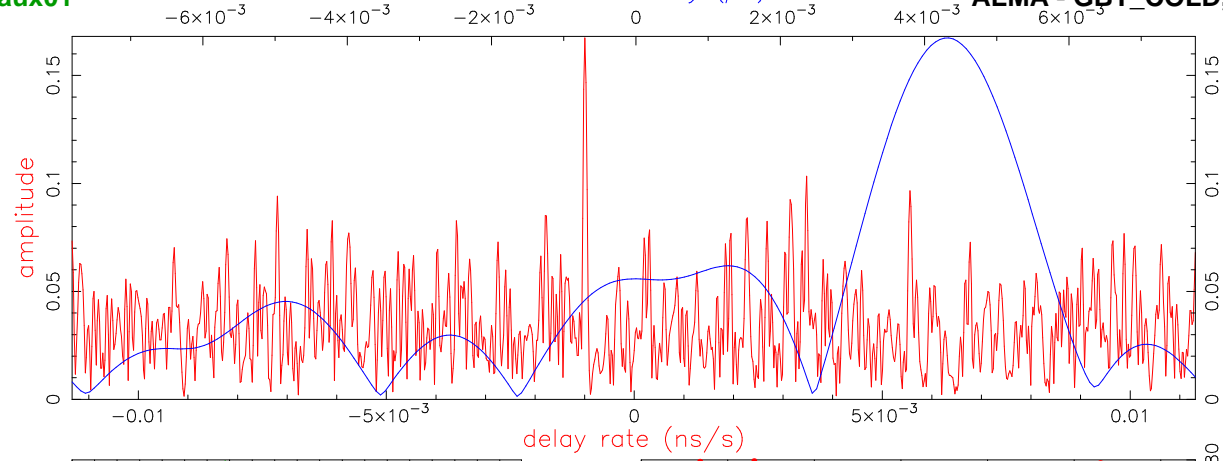
Mk4/DiFX fourfit 3.25 rev 0

aux01

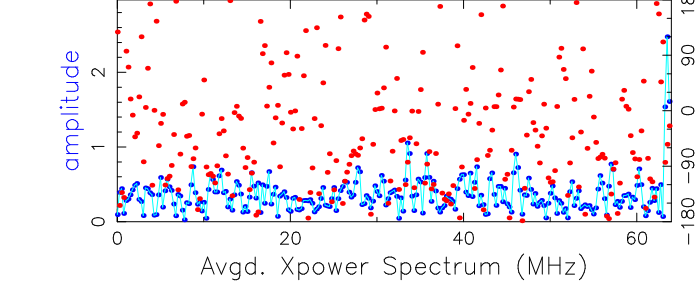
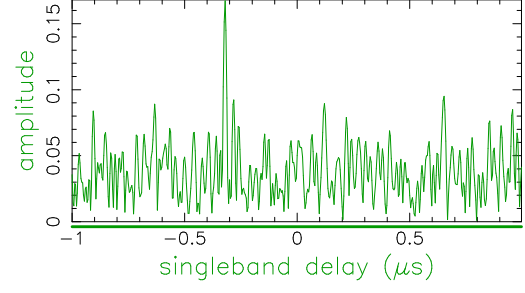
3C273.3MP1KJ, No0618, AG

ALMA - GBT_COLD, fgroup W, pol XL

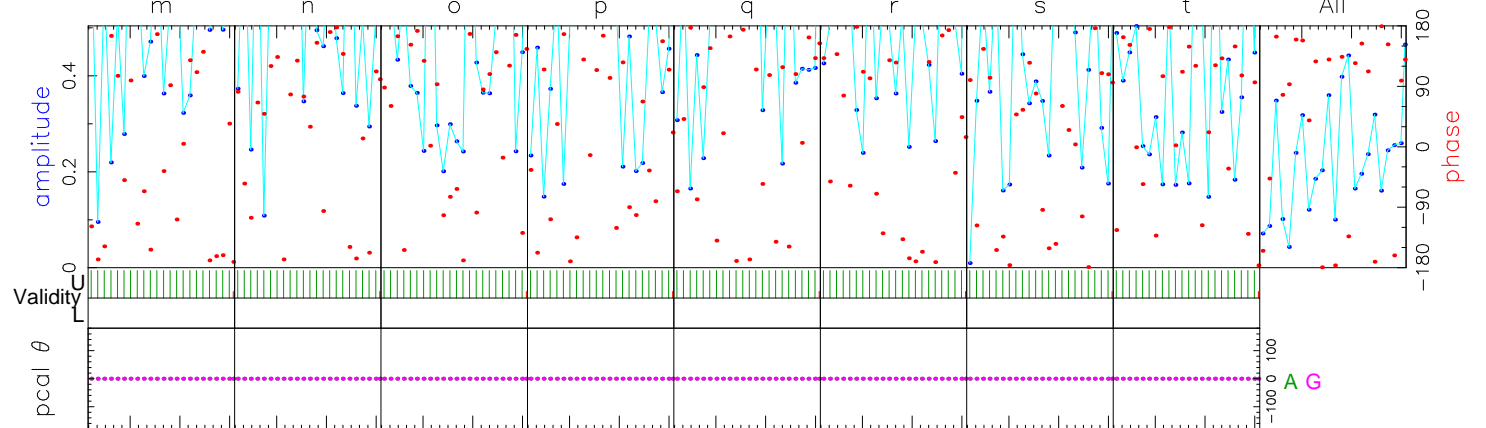
multiband delay (μ s)



Fringe quality 0
 SNR 6.0
 Int time 170.784
 Amp 0.168
 Phase 155.0
 PFD 2.4e-01
 Delays (us)
 SBD -0.320651
 MBD 0.004321
 Fringe rate (Hz)
 -0.086808
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234009.22
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build
 2024:359:200643
 2025:041:171339
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"



Amp. and Phase vs. time for each freq., 23 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
	176.9	133.7	140.4	173.9	163.8	161.6	126.4	160.9	Phase	155.0
	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	Ampl.	0.2
	361.9	227.9	349.0	468.7	257.0	185.9	95.2	70.1	Sbd box	174.9
U/L	334/0	334/0	334/0	334/0	334/0	334/0	334/0	334/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
A:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:G	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	
G	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UX	W12UX	W13UX	W14UX	W15UX	W16UX	W17UX	W18UX	Chan ids	
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	1.96816219996E+03		Apriori delay (usec)		1.96848600440E+03		Resid mbdelay (usec)		4.32056E-03	+/- 1.8E-04
Sband delay (usec)	1.96816535315E+03		Apriori clock (usec)		-2.0927869E+03		Resid sbdelay (usec)		-3.20651E-01	+/- 1.4E-03
Phase delay (usec)	1.96848600940E+03		Apriori clockrate (us/s)		-8.1214983E-08		Resid phdelay (usec)		4.99902E-06	+/- 6.2E-07
Delay rate (us/s)	2.82511549900E-02		Apriori rate (us/s)		2.82521627446E-02		Resid rate (us/s)		-1.00775E-06	+/- 6.3E-09
Total phase (deg)	306.0		Apriori accel (us/s/s)		-2.54064664210E-05		Resid phase (deg)		155.0	+/- 19.1

ph/seg (deg) 55.7 45.9 Amplitude 0.168 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.0 80.1 Search (1024X32) 0.160 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 20.3 27.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 28.0 47.2 Inc. seg. avg. 0.170 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.158 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 A: az 70.9 el 33.8 pa -119.7 G: az 105.4 el 21.4 pa -49.1 u,v (fr/asec) -177.817 -9012.869 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618//AG..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618//AG.W.86.3MP1KJ

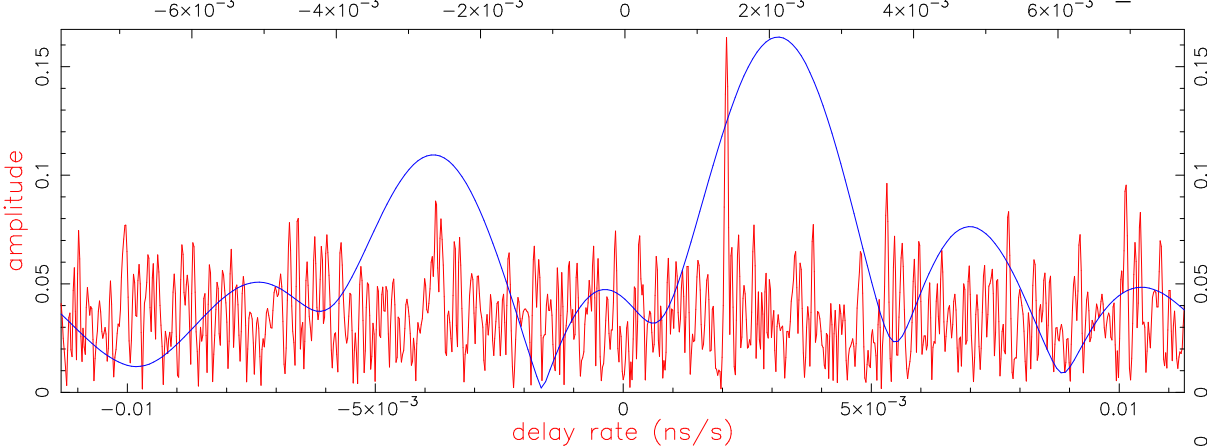
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, AG

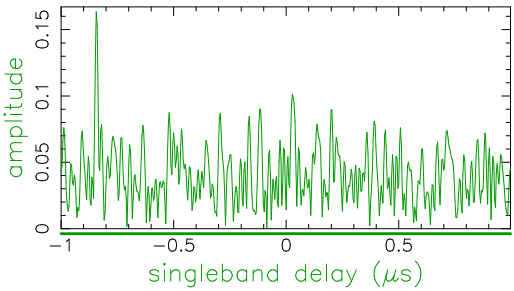
ALMA - GBT_COLD, fgroup W, pol YR

multiband delay (μ s)

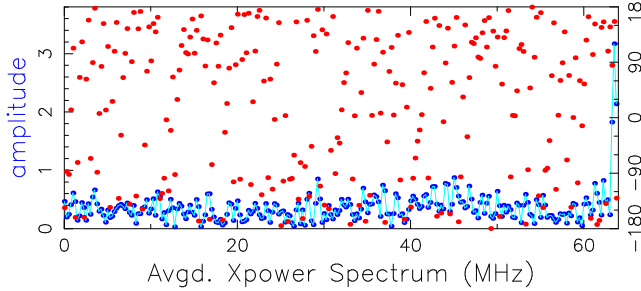


Fringe quality 0

SNR 5.9
 Int time 170.784
 Amp 0.167
 Phase 137.2
 PFD 3.8e-01
 Delays (us)
 SBD -0.842742
 MBD 0.002072
 Fringe rate (Hz)
 0.178757
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

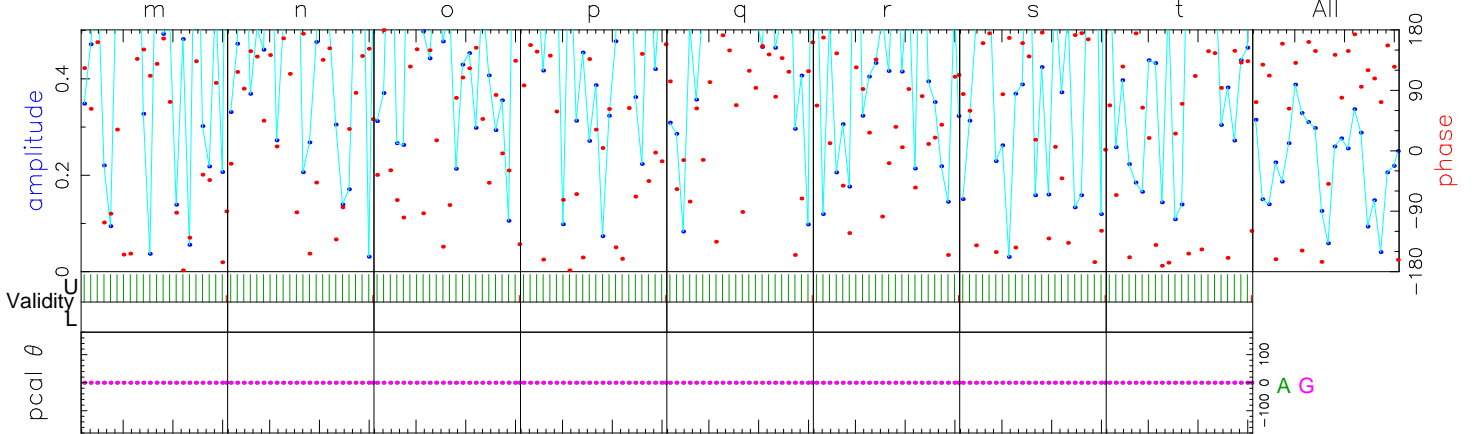


delay rate (ns/s)



Exp. c241b
 Yr:day 1234
 Start 2024:110
 Stop 234009.22
 FRT 234300.23
 Corr/FF/build 234134.00
 2024:359:200643
 2025:041:171341
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

Amp. and Phase vs. time for each freq., 23 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	334/0	334/0	334/0	334/0	334/0	334/0	334/0	334/0		
A	0	0	0	0	0	0	0	0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
A:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:G	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	
G	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UY	W12UY	W13UY	W14UY	W15UY	W16UY	W17UY	W18UY	Chan ids	
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	1.96764432668E+03	Apriori delay (usec)	1.96848600440E+03	Resid mbdelay (usec)	2.07228E-03	+/-	1.8E-04
Sband delay (usec)	1.96764326265E+03	Apriori clock (usec)	-2.0927869E+03	Resid sbdelay (usec)	-8.42742E-01	+/-	1.5E-03
Phase delay (usec)	1.96848600883E+03	Apriori clockrate (us/s)	-8.1214983E-08	Resid phdelay (usec)	4.42377E-06	+/-	6.3E-07
Delay rate (us/s)	2.82542379370E-02	Apriori rate (us/s)	2.82521627446E-02	Resid rate (us/s)	2.07519E-06	+/-	6.4E-09
Total phase (deg)	288.2	Apriori accel (us/s/s)	-2.54064664210E-05	Resid phase (deg)	137.2	+/-	19.4

ph/seg (deg)	55.2	RMS	46.6	Theor.	Amplitude	0.167 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	66.6	Search (1024X32)	0.161	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	0.161		sb window (us)	-1.000 1.000
ph/frq (deg)	35.9	Interp.	0.000	Bits/sample: 2x2	0.171		mb window (us)	-0.008 0.008
amp/frq (%)	38.5	Inc. seg. avg.	0.171	SampCntNorm: enabled	0.174		dr window (ns/s)	-0.011 0.011
		Inc. frq. avg.	0.174	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	

A: az 70.9 el 33.8 pa -119.7 G: az 105.4 el 21.4 pa -49.1 u,v (fr/asec) -177.817 -9012.869 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618//AG..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618//AG.W.97.3MP1KJ

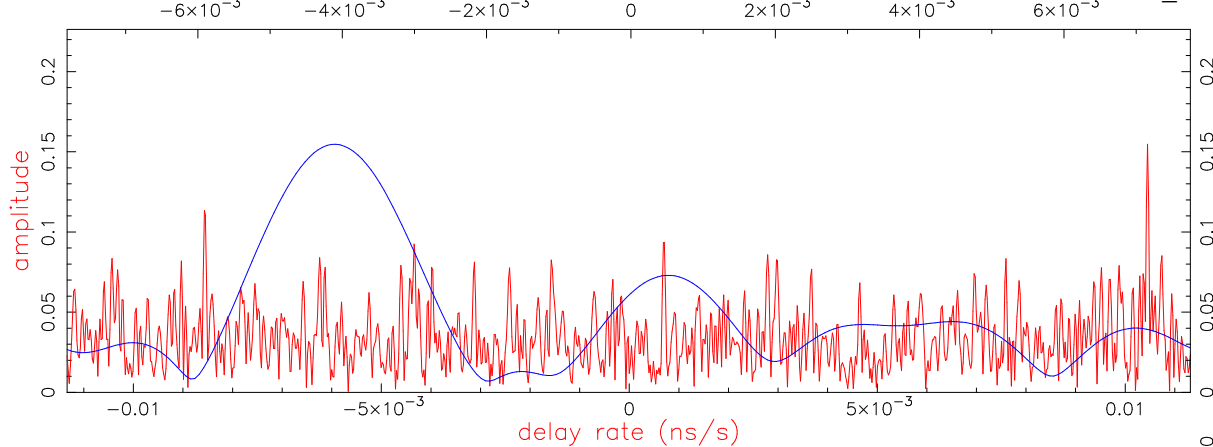
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, An

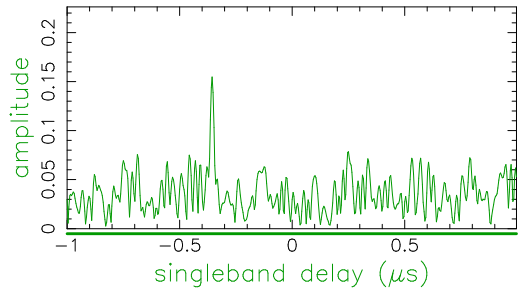
ALMA - VLBA_NL, fgroup W, pol XR

multiband delay (μ s)

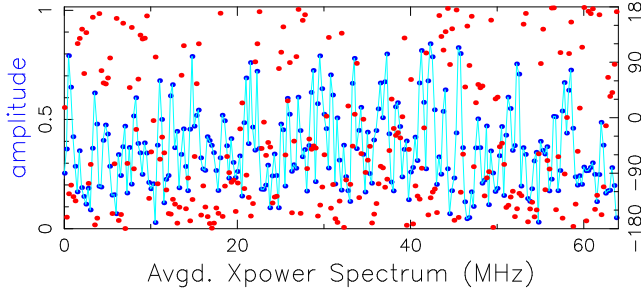


Fringe quality 0

SNR 5.7
 Int time 179.700
 Amp 0.226
 Phase 129.9
 PFD 8.2e-01
 Delays (us)
 SBD -0.355877
 MBD -0.004116
 Fringe rate (Hz)
 0.902372
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

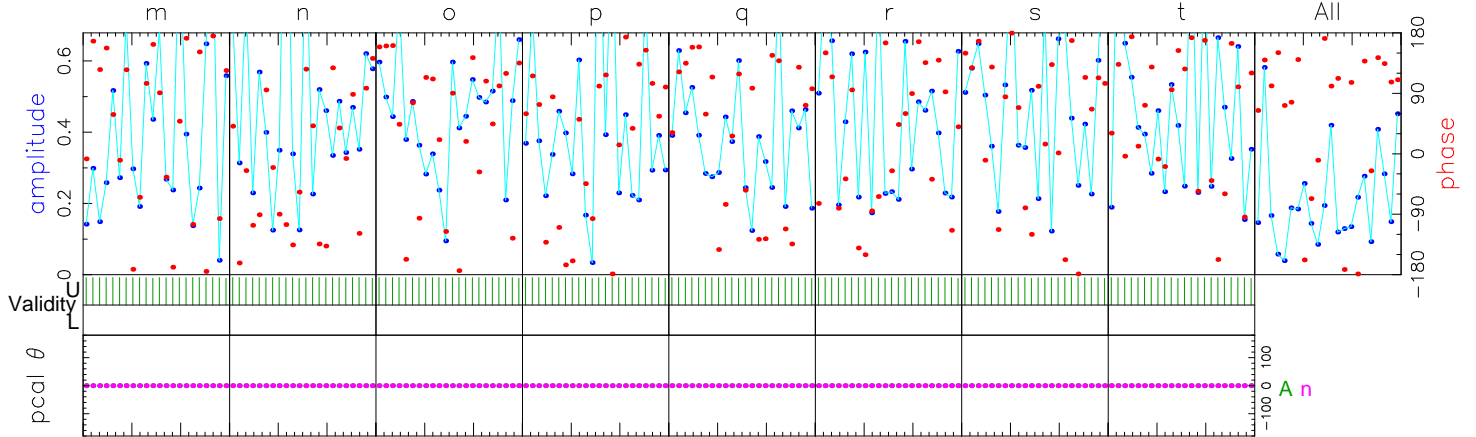


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234000.00
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build
 2024:359:200643
 2025:041:171321
 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
	131.5	-148.5	114.9	121.9	139.4	123.1	129.9	135.6	Phase	129.9
	0.3	0.1	0.3	0.3	0.3	0.1	0.3	0.2	Ampl.	0.2
	48.3	146.7	167.3	10.2	260.3	405.0	460.5	226.3	Sbd box	165.9
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	
n	0	0	0	0	0	0	0	0	PC freqs	
A:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UX	W12UX	W13UX	W14UX	W15UX	W16UX	W17UX	W18UX	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	5.31671544272E+03		Apriori delay (usec)		5.31707893325E+03		Resid mbdelay (usec)		-4.11553E-03	+/- 1.9E-04
Sband delay (usec)	5.31672305575E+03		Apriori clock (usec)		-2.1071211E+03		Resid sbdelay (usec)		-3.55877E-01	+/- 1.5E-03
Phase delay (usec)	5.31707893744E+03		Apriori clockrate (us/s)		-3.0809188E-07		Resid phdelay (usec)		4.18868E-06	+/- 6.5E-07
Delay rate (us/s)	-3.21886774173E-03		Apriori rate (us/s)		-3.22934338919E-03		Resid rate (us/s)		1.04756E-05	+/- 6.3E-09
Total phase (deg)			Apriori accel (us/s/s)		-4.34533686848E-05		Resid phase (deg)		129.9	+/- 20.2
RMS	Theor.	Amplitude	0.226 +/- 0.040		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
66.8	47.4	Search (1024X32)	0.150		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000
96.1	82.6	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
34.5	28.6	Inc. seg. avg.	0.234		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011	0.011
43.0	49.8	Inc. frq. avg.	0.209		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
A: az 70.9 el 33.8 pa -119.7		n: az 98.3 el 12.0 pa -47.6		u, v (fr/asec) -7.220 -9454.652				simultaneous interpolator		
Control file: cf_1234_gmva		Input file: /Exps/c241b/v2/3mm/1234/No0618//An..3MP1KJ		Output file: /Exps/c241b/v2/3mm/1234/No0618//An.W.11.3MP1KJ						

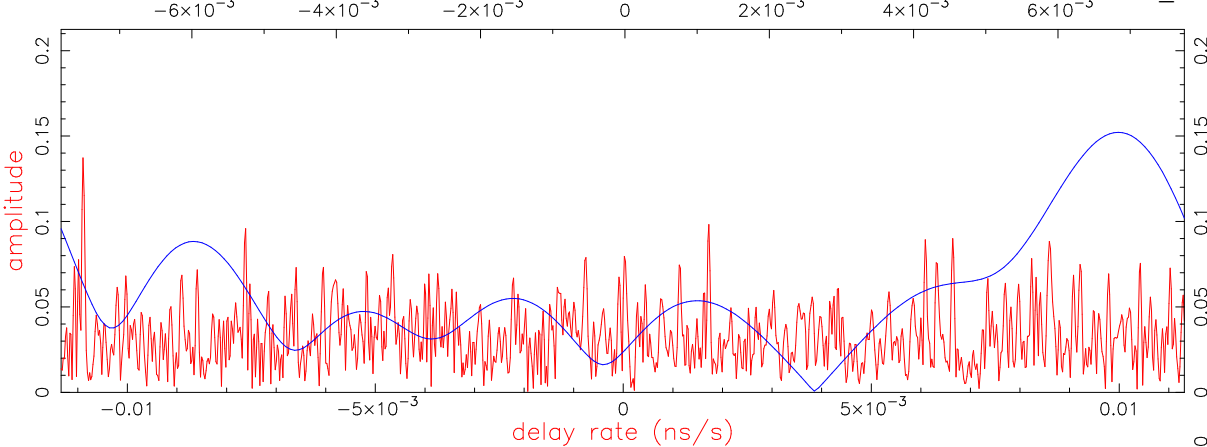
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, An

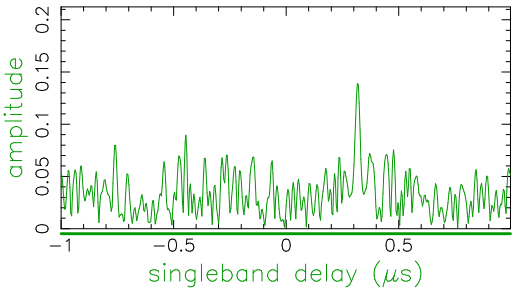
ALMA - VLBA_NL, fgroup W, pol YL

multiband delay (μ s)

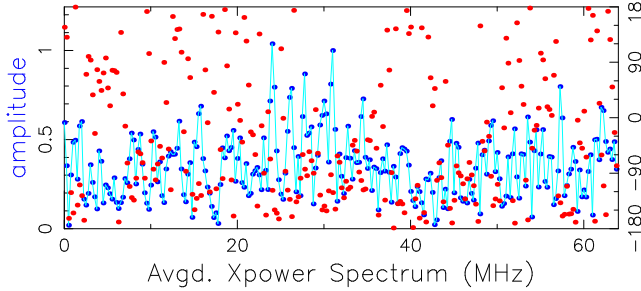


Fringe quality 0

SNR 5.1
 Int time 179.700
 Amp 0.212
 Phase 38.6
 PFD 1.0e+00
 Delays (us)
 SBD 0.317925
 MBD -0.008301
 Fringe rate (Hz)
 -0.940048
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

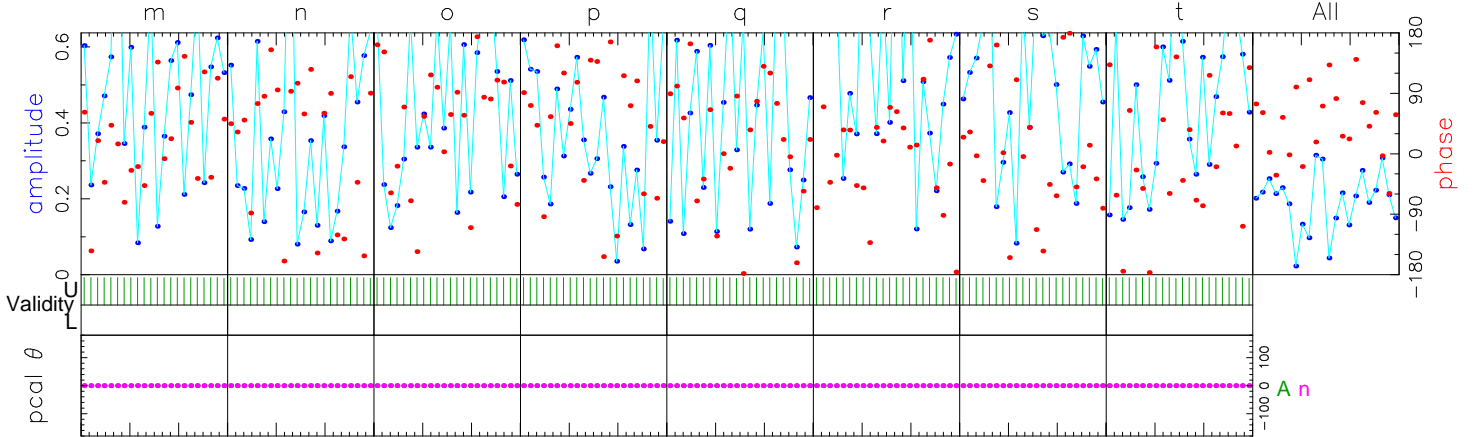


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234000.00
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build
 2024:359:200643
 2025:041:171323
 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		
A	0	0	0	0	0	0	0	0	APs used	
n	0	0	0	0	0	0	0	0	PC freqs	
A:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UY	W12UY	W13UY	W14UY	W15UY	W16UY	W17UY	W18UY	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	5.31739875747E+03	Apriori delay (usec)	5.31707893325E+03	Resid mbdelay (usec)	-8.30078E-03	+/-	2.1E-04
Sband delay (usec)	5.31739685825E+03	Apriori clock (usec)	-2.1071211E+03	Resid sbdelay (usec)	3.17925E-01	+/-	1.7E-03
Phase delay (usec)	5.31707893449E+03	Apriori clockrate (us/s)	-3.0809188E-07	Resid phdelay (usec)	1.24433E-06	+/-	7.2E-07
Delay rate (us/s)	-3.24025641934E-03	Apriori rate (us/s)	-3.22934338919E-03	Resid rate (us/s)	-1.09130E-05	+/-	6.9E-09
Total phase (deg)	150.2	Apriori accel (us/s/s)	-4.34533686848E-05	Resid phase (deg)	38.6	+/-	22.3

ph/seg (deg)	51.7	Theor.	52.3	Amplitude	0.212 +/- 0.041	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	66.4	Search (1024X32)	0.150	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	51.5	Inc. seg. avg.	0.208	Inc. frq. avg.	0.245	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	48.2	Inc. frq. avg.	0.245			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 70.9 el 33.8 pa -119.7 n: az 98.3 el 12.0 pa -47.6 u, v (fr/asec) -7.220 -9454.652 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618//An..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618//An.W.19.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

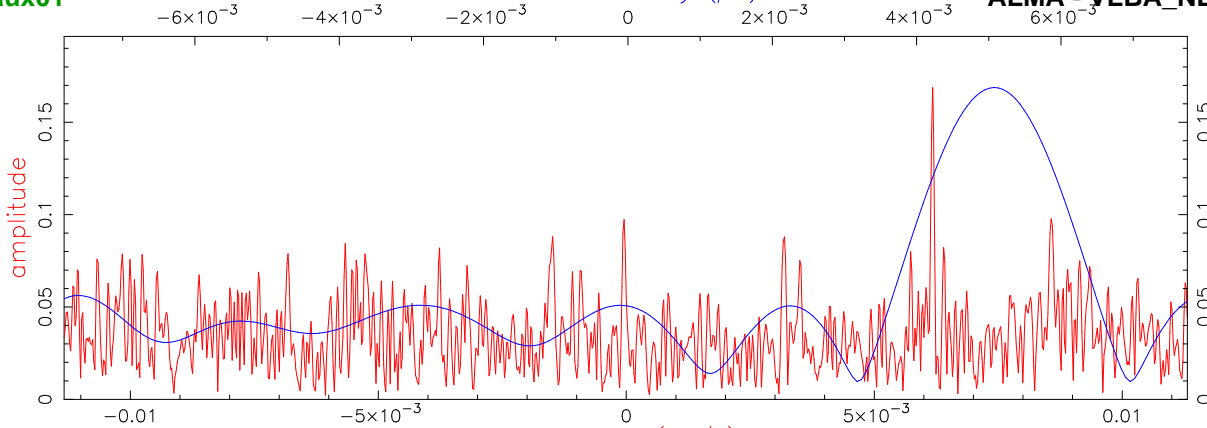
aux01

3C273.3MP1KJ, No0618, An

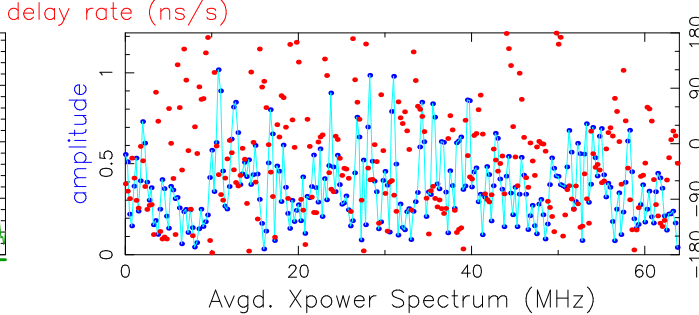
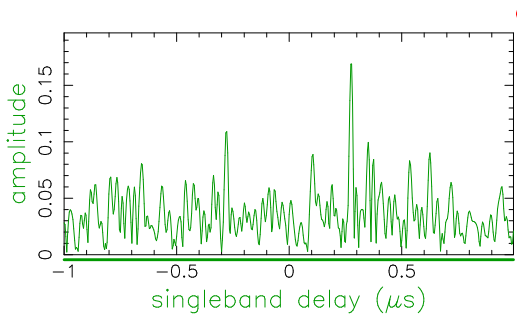
ALMA - VLBA_NL, fgroup W, pol XL

multiband delay (μ s)

Fringe quality 0

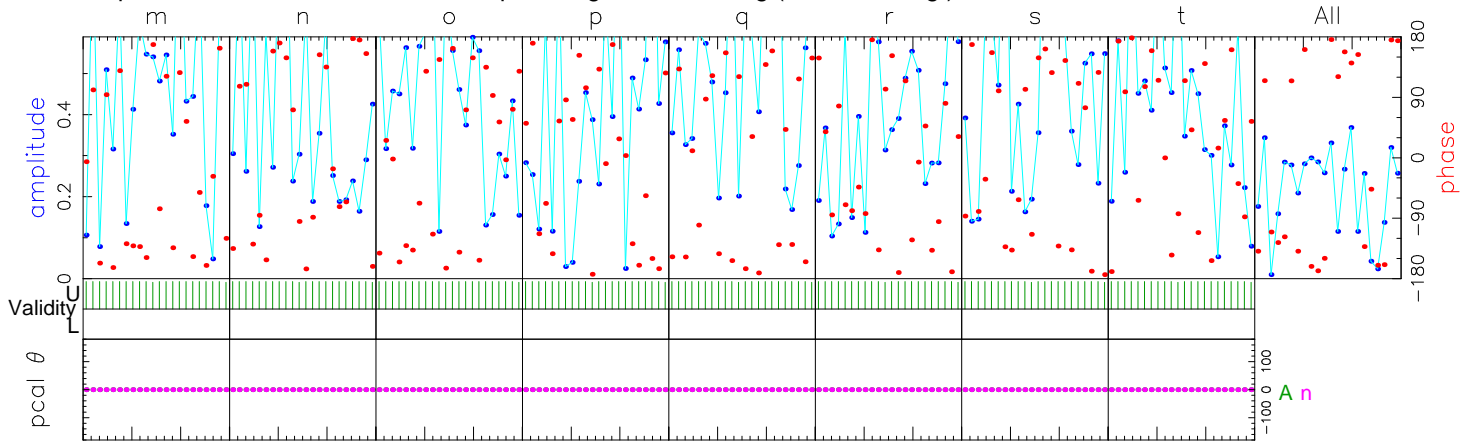


SNR 6.4
 Int time 179.700
 Amp 0.196
 Phase 179.7
 PFD 2.9e-02
 Delays (us)
 SBD 0.275411
 MBD 0.005104
 Fringe rate (Hz)
 0.533358
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234000.00
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build
 2024:359:200643
 2025:041:171318
 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
	-178.2	177.1	-167.2	177.9	171.8	-162.8	-179.6	171.0	Phase	179.7
	0.2	0.3	0.2	0.1	0.3	0.1	0.3	0.1	Ampl.	0.2
	2.1	327.2	428.9	221.9	328.6	511.6	210.3	7.1	Sbd box	327.5
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	
n	0	0	0	0	0	0	0	0	PC freqs	
A:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UX	W12UX	W13UX	W14UX	W15UX	W16UX	W17UX	W18UX	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	5.31734966273E+03	Apriori delay (usec)	5.31707893325E+03	Resid mbdelay (usec)	5.10448E-03	+/-	1.7E-04
Sband delay (usec)	5.31735434425E+03	Apriori clock (usec)	-2.1071211E+03	Resid sbdelay (usec)	2.75411E-01	+/-	1.4E-03
Phase delay (usec)	5.31707893904E+03	Apriori clockrate (us/s)	-3.0809188E-07	Resid phdelay (usec)	5.79573E-06	+/-	5.8E-07
Delay rate (us/s)	-3.22315163008E-03	Apriori rate (us/s)	-3.22934338919E-03	Resid rate (us/s)	6.19176E-06	+/-	5.6E-09
Total phase (deg)	291.4	Apriori accel (us/s/s)	-4.34533686848E-05	Resid phase (deg)	179.7	+/-	18.0

ph/seg (deg)	49.0	Theor.	42.3	Amplitude	0.196 +/- 0.031	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	65.2	Search (1024X32)	0.162	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	10.3	Inc. seg. avg.	0.195	Inc. frq. avg.	0.176	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	46.9	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

A: az 70.9 el 33.8 pa -119.7 n: az 98.3 el 12.0 pa -47.6 u, v (fr/asec) -7.220 -9454.652 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618//An..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618//An.W.3.3MP1KJ

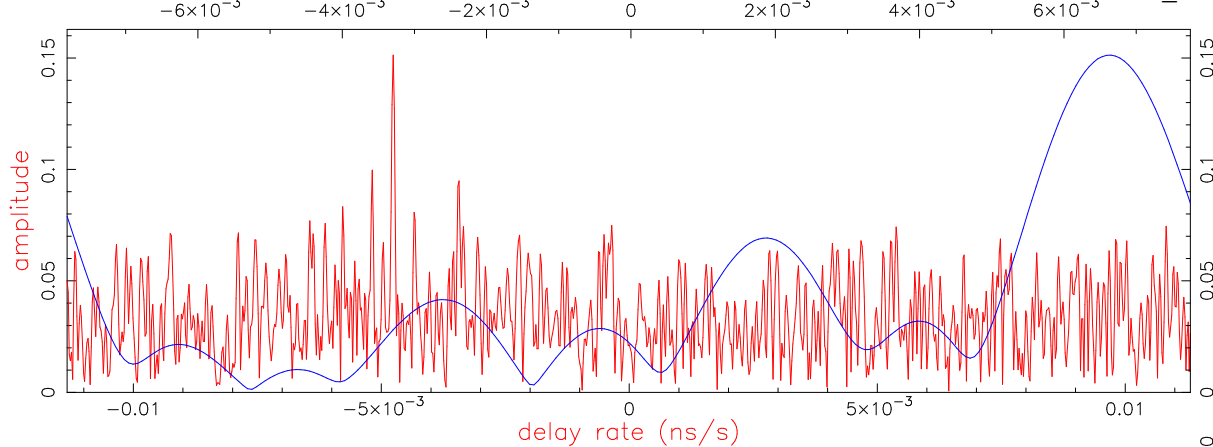
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, An

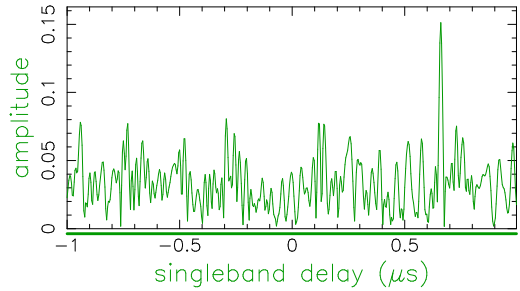
ALMA - VLBA_NL, fgroup W, pol YR

multiband delay (μs)

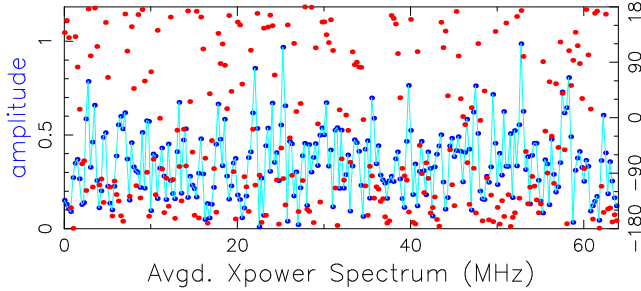


Fringe quality 0

SNR 5.5
 Int time 179.700
 Amp 0.163
 Phase 170.4
 PFD 9.7e-01
 Delays (us)
 SBD 0.660144
 MBD 0.006632
 Fringe rate (Hz)
 -0.409892
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

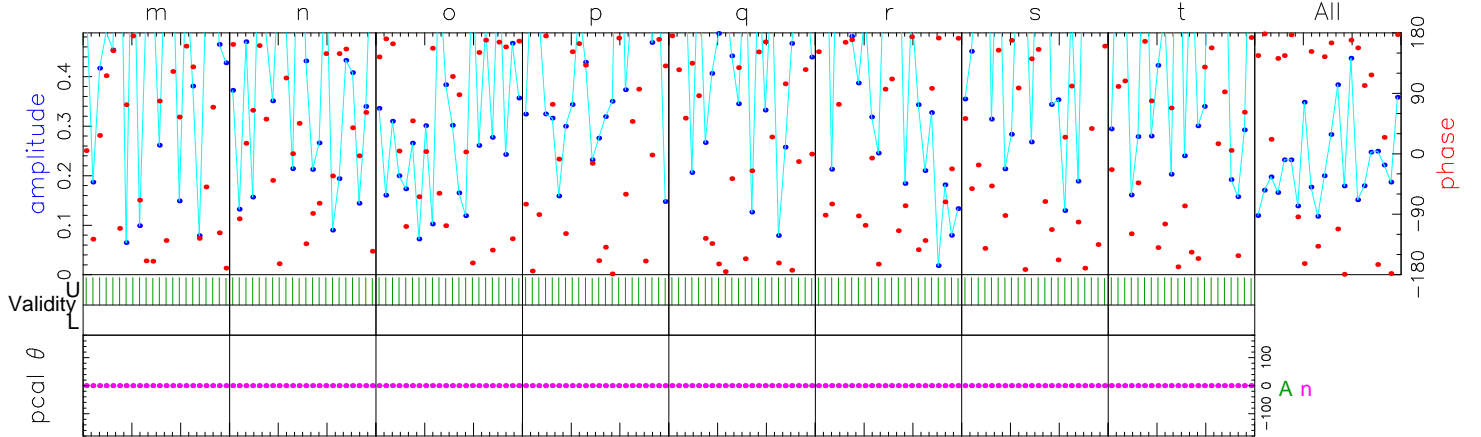


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234000.00
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build
 2024:359:200643
 2025:041:171319
 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
	178.4	128.8	-174.5	178.4	143.9	-173.1	-169.9	156.4	Phase	170.4
	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
	359.0	324.4	16.0	269.9	171.3	14.2	69.3	482.4	Sbd box	426.0
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	
n	0	0	0	0	0	0	0	0	PC freqs	
A:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UY	W12UY	W13UY	W14UY	W15UY	W16UY	W17UY	W18UY	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	5.31774181500E+03	Apriori delay (usec)	5.31707893325E+03	Resid mbdelay (usec)	6.63175E-03	+/-	2.0E-04
Sband delay (usec)	5.31773907725E+03	Apriori clock (usec)	-2.1071211E+03	Resid sbdelay (usec)	6.60144E-01	+/-	1.6E-03
Phase delay (usec)	5.31707893874E+03	Apriori clockrate (us/s)	-3.0809188E-07	Resid phdelay (usec)	5.49485E-06	+/-	6.7E-07
Delay rate (us/s)	-3.23410182975E-03	Apriori rate (us/s)	-3.22934338919E-03	Resid rate (us/s)	-4.75844E-06	+/-	6.4E-09
Total phase (deg)		Apriori accel (us/s/s)	-4.34533686848E-05	Resid phase (deg)	170.4	+/-	20.7

ph/seg (deg)	58.0	Theor.	48.5	Amplitude	0.163 +/- 0.029	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	74.9		84.6	Search (1024X32)	0.146	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	24.7		29.2	Inc. seg. avg.	0.179	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	23.4		51.0	Inc. frq. avg.	0.153	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 70.9 el 33.8 pa -119.7 n: az 98.3 el 12.0 pa -47.6 u,v (fr/asec) -7.220 -9454.652 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618//An..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618//An.W.7.3MP1KJ

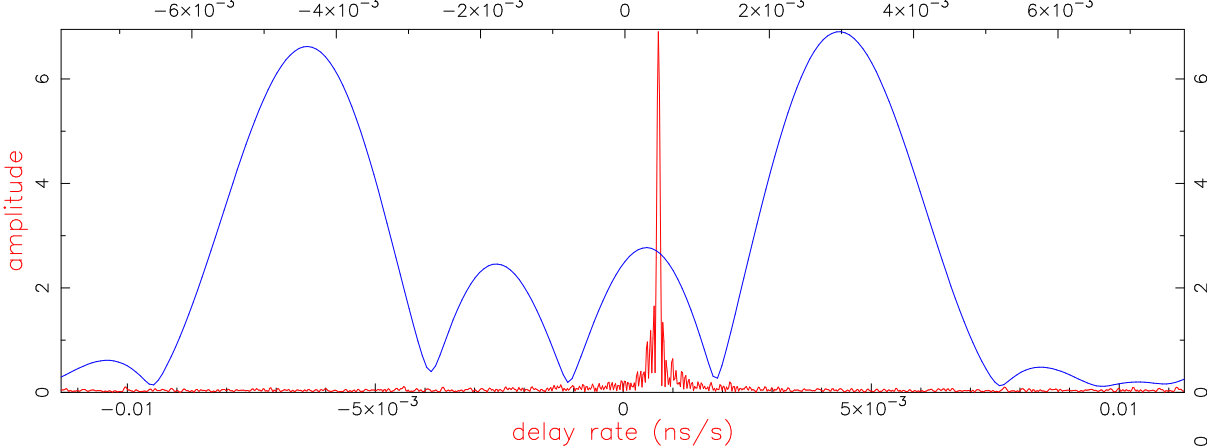
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, AP

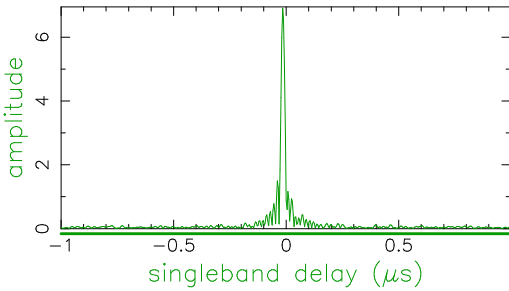
ALMA - PICOVEL, fgroup W, pol YR

multiband delay (μ s)

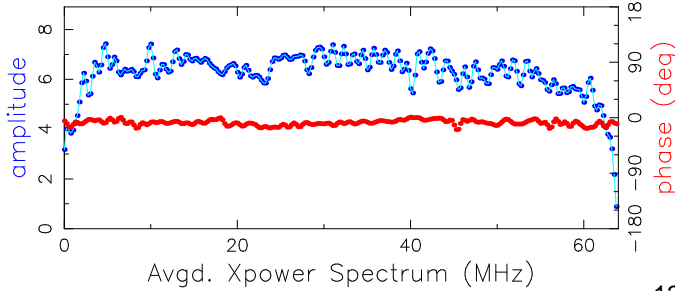


Fringe quality 6

SNR 254.6
 Int time 179.983
 Amp 6.951
 Phase 147.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.014739
 MBD 0.002982
 Fringe rate (Hz)
 0.061985
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

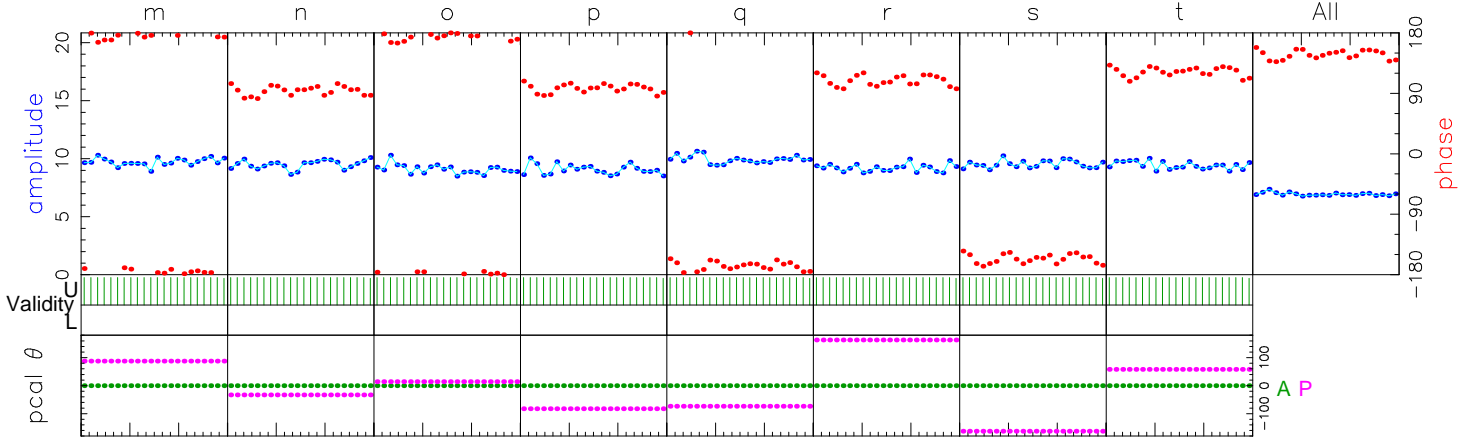


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234000.00
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build
 2024:359:200643
 2025:041:171321
 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		
A	0	0	0	0	0	0	0	0		
P	0	0	0	0	0	0	0	0		
A:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
A:P	0:88	0:33	0:15	0:82	0:74	0:163	0:163	0:58		
A	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UY	W12UY	W13UY	W14UY	W15UY	W16UY	W17UY	W18UY		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	-7.14632013778E+03	Apriori delay (usec)	-7.14630749524E+03	Resid mbdelay (usec)	2.98247E-03	+/-	4.3E-06
Sband delay (usec)	-7.14632223399E+03	Apriori clock (usec)	-2.1065200E+03	Resid sbdelay (usec)	-1.47387E-02	+/-	3.4E-05
Phase delay (usec)	-7.14630749049E+03	Apriori clockrate (us/s)	-6.0906900E-07	Resid phdelay (usec)	4.75759E-06	+/-	1.5E-08
Delay rate (us/s)	1.39468025146E+00	Apriori rate (us/s)	1.39467953187E+00	Resid rate (us/s)	7.19587E-07	+/-	1.4E-10
Total phase (deg)	-82.9	Apriori accel (us/s/s)	2.30581858120E-05	Resid phase (deg)	147.5	+/-	0.5

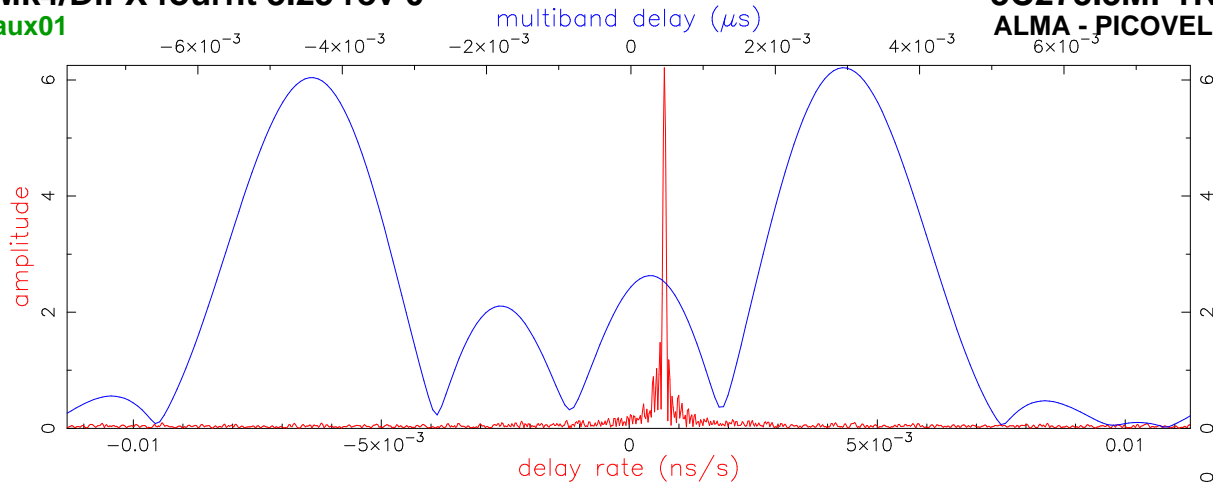
ph/seg (deg)	6.4	1.1	Search (1024X32)	6.527	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	1.9	1.8	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	49.4	0.6	Inc. seg. avg.	6.960	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	35.4	1.1	Inc. frq. avg.	9.396	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

A: az 70.9 el 33.8 pa -119.7 P: az 201.2 el 53.0 pa 17.1 u,v (fr/asec) -7981.828 -8716.205 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618//AP..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618//AP.W.12.3MP1KJ

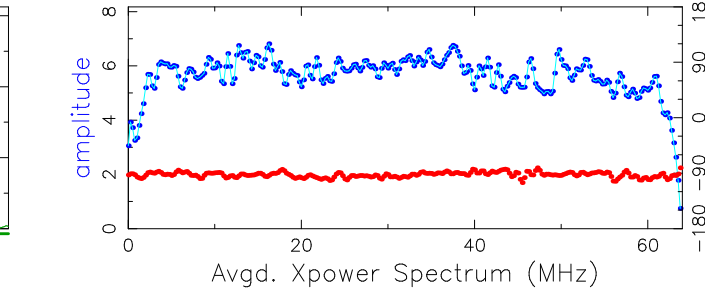
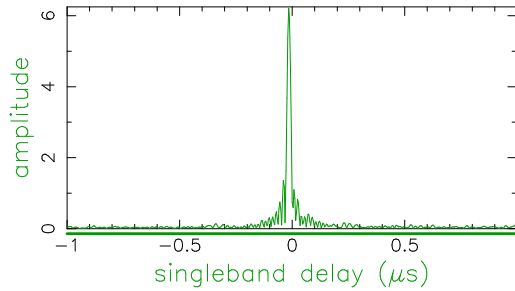
Mk4/DiFX fourfit 3.25 rev 0
aux01

3C273.3MP1KJ, No0618, AP
ALMA - PICOVEL, fgroup W, pol XR



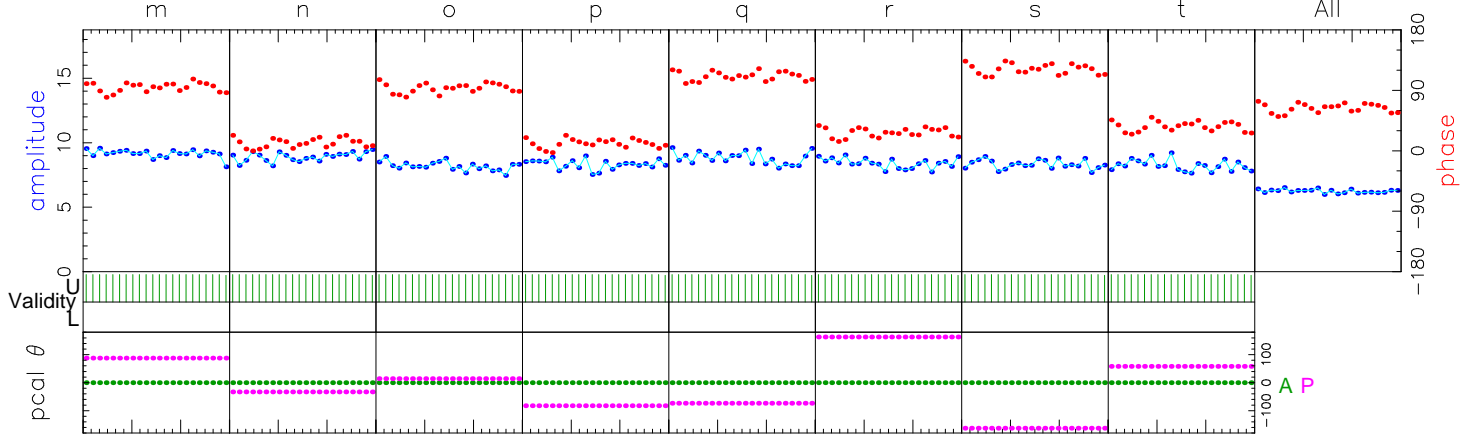
Fringe quality 6

SNR 228.9
Int time 179.983
Amp 6.250
Phase 63.4
PFD 0.0e+00
Delays (us)
SBD -0.014741
MBD 0.002958
Fringe rate (Hz)
0.061985
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c241b
Exper # 1234
Yr:day 2024:110
Start 234000.00
Stop 234300.23
FRT 234134.00
Corr/FF/build
2024:359:200643
2025:041:171323
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		
A	0	0	0	0	0	0	0	0		
P	0	0	0	0	0	0	0	0		
A:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
A:P	0:88	0:33	0:15	0:82	0:74	0:163	0:163	0:58		
A	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UX	W12UX	W13UX	W14UX	W15UX	W16UX	W17UX	W18UX		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	-7.14632016234E+03	Apriori delay (usec)	-7.14630749524E+03	Resid mbdelay (usec)	2.95790E-03	+/-	4.7E-06
Sband delay (usec)	-7.14632223649E+03	Apriori clock (usec)	-2.1065200E+03	Resid sbdelay (usec)	-1.47413E-02	+/-	3.8E-05
Phase delay (usec)	-7.14630749320E+03	Apriori clockrate (us/s)	-6.0906900E-07	Resid phdelay (usec)	2.04412E-02	+/-	1.6E-08
Delay rate (us/s)	1.39468025146E+00	Apriori rate (us/s)	1.39467953187E+00	Resid rate (us/s)	7.19590E-07	+/-	1.6E-10
Total phase (deg)	-167.1	Apriori accel (us/s/s)	2.30581858120E-05	Resid phase (deg)	63.4	+/-	0.5

ph/seg (deg)	6.5	RMS	1.2	Theor.	5.866	Amplitude	6.250 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	2.2	Search (1024X32)	0.000	Interp.	6.259	Inc. seg. avg.	8.505	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	50.0	Inc. frq. avg.	8.505	Inc. frq. avg.	8.505	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.008 0.008
amp/frq (%)	36.5	Inc. frq. avg.	8.505	Inc. frq. avg.	8.505	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	nlags:	256	dr window (ns/s)	-0.011 0.011
						Data rate (Mb/s):	2048	t_cohere:	infinite	ion window (TEC)	0.00 0.00

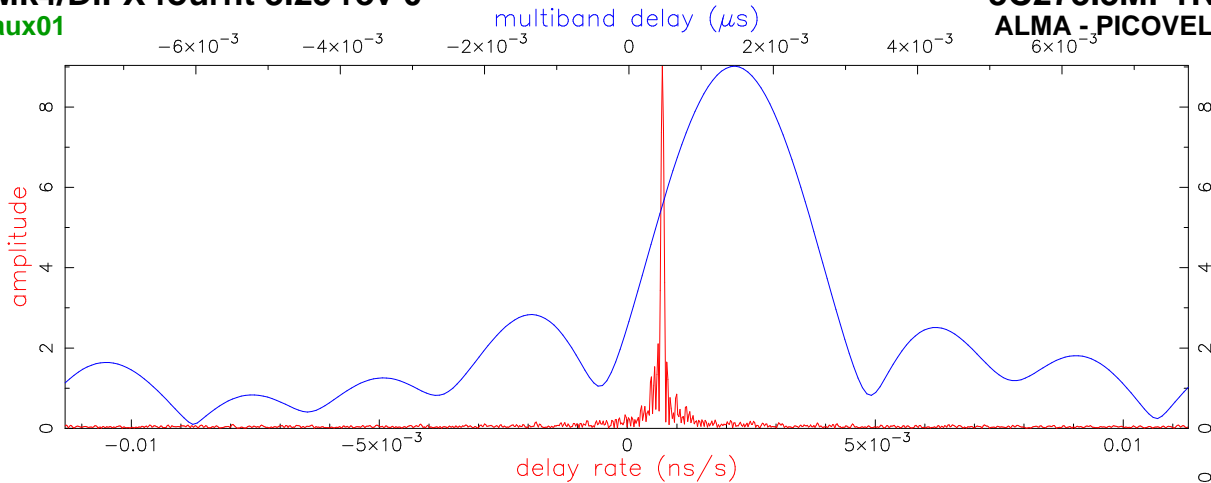
A: az 70.9 el 33.8 pa -119.7 P: az 201.2 el 53.0 pa 17.1 u,v (fr/asec) -7981.828 -8716.205 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618//AP..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618//AP.W.20.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

aux01

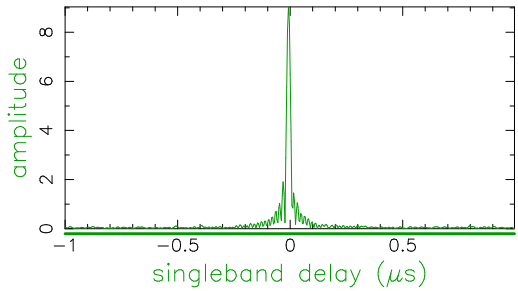
3C273.3MP1KJ, No0618, AP

ALMA - PICOVEL, fgroup W, pol YL

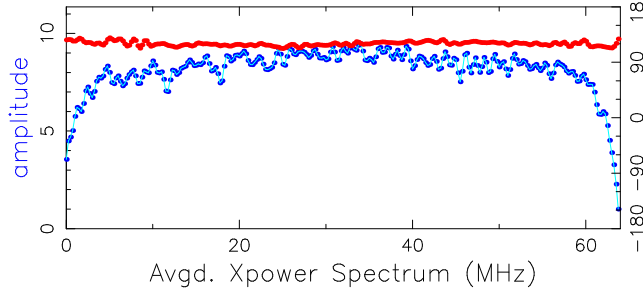


Fringe quality 8

SNR 331.0
 Int time 179.983
 Amp 9.037
 Phase 17.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.007461
 MBD 0.001463
 Fringe rate (Hz)
 0.061947
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

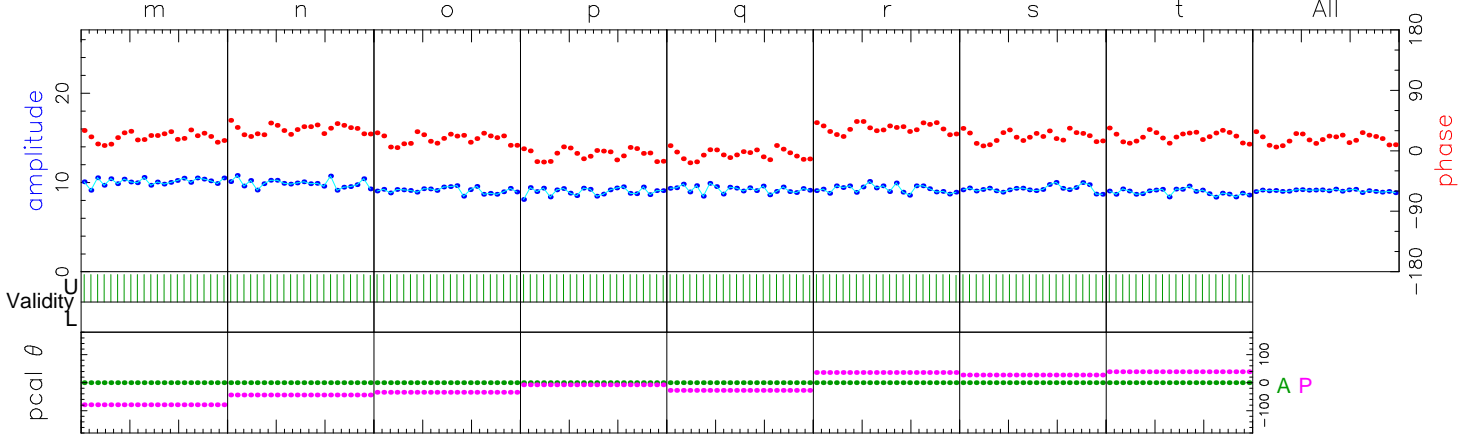


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234000.00
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build
 2024:359:200643
 2025:041:171326
 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

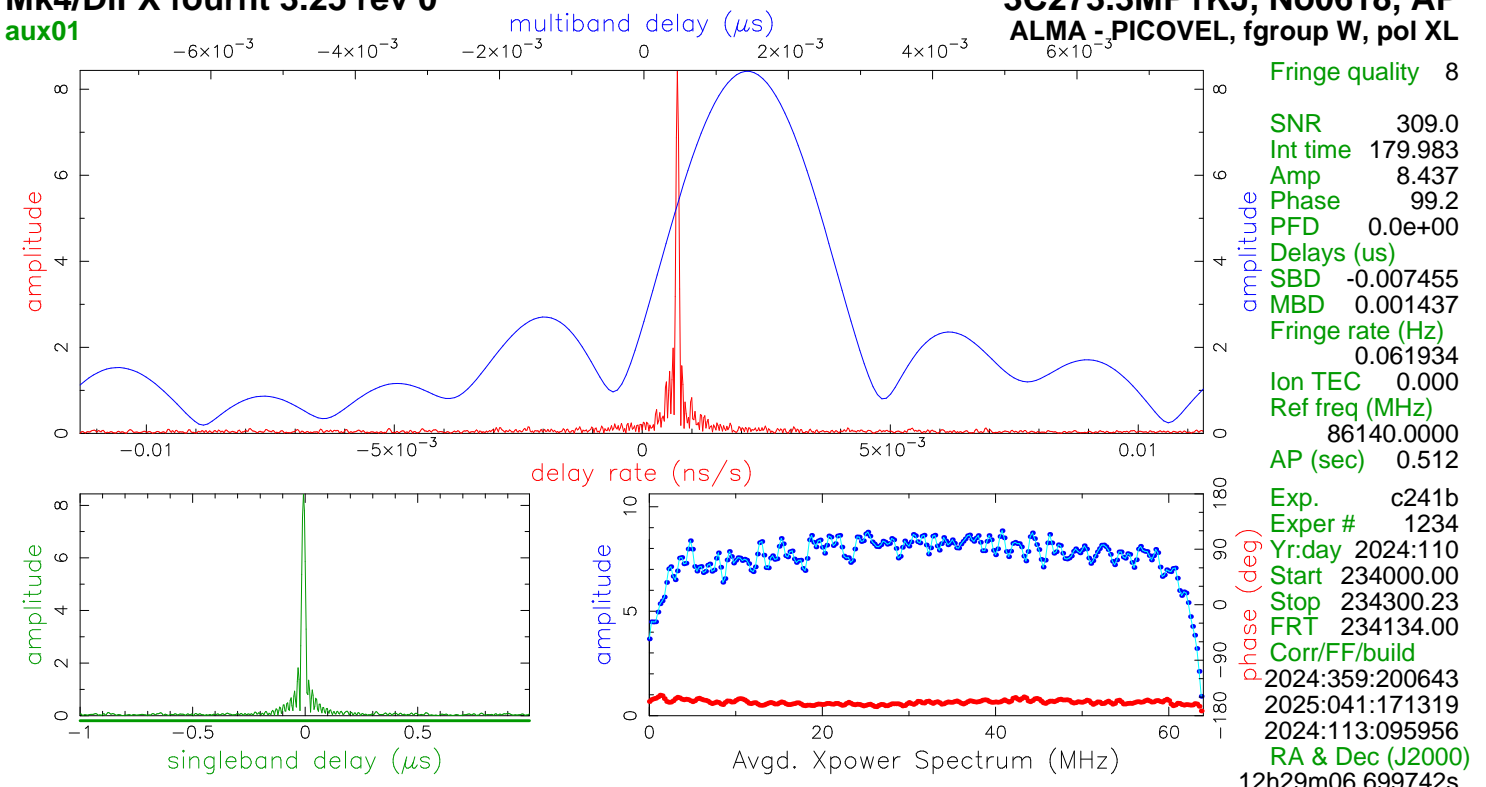


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		255.1
A	0	0	0	0	0	0	0	0	Ampl.	9.3
P	0	0	0	0	0	0	0	0	Sbd box	255.1
A:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
A:P	0:-79	0:-44	0:-34	0:-8	0:-28	0:36	0:27	0:39	PC freqs	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
P	1000	1000	1000	1000	1000	1000	1000	1000	Manl PC	
A	W11UY	W12UY	W13UY	W14UY	W15UY	W16UY	W17UY	W18UY	PC amp	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
									Tracks	
									Chan ids	
									Tracks	

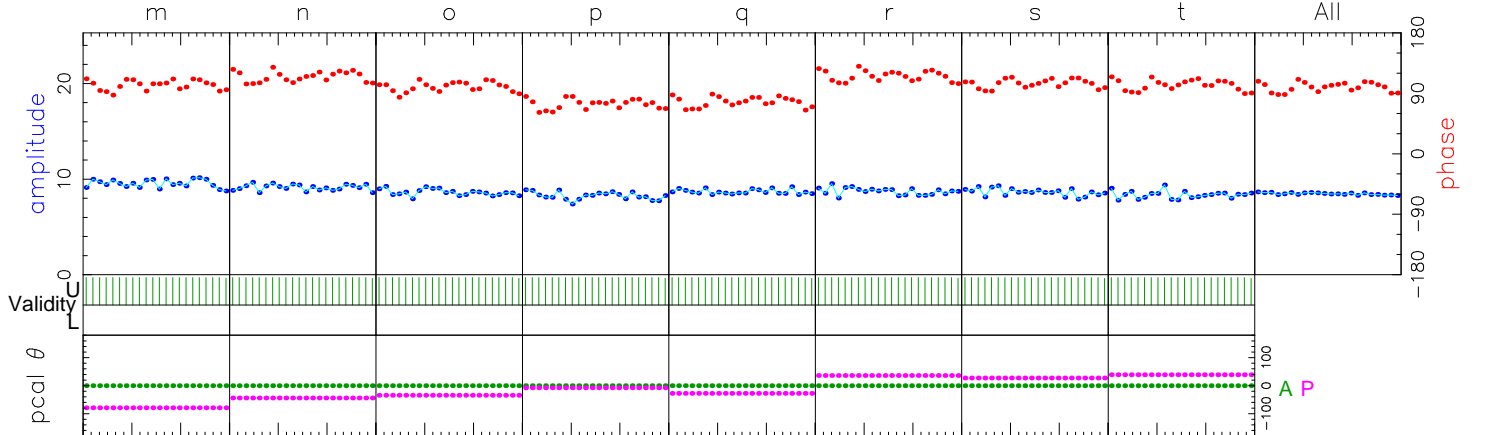
Group delay (usec) (SBD) -7.14632165726E+03 Apriori delay (usec) -7.14630749524E+03 Resid mbdelay (usec) 1.46299E-03 +/- 3.3E-06
 Sband delay (usec) -7.14631495624E+03 Apriori clock (usec) -2.1065200E+03 Resid sbdelay (usec) -7.46100E-03 +/- 2.6E-05
 Phase delay (usec) -7.14630749469E+03 Apriori clockrate (us/s) -6.0906900E-07 Resid phdelay (usec) 5.56928E-07 +/- 1.1E-08
 Delay rate (us/s) 1.39468025101E+00 Apriori rate (us/s) 1.39467953187E+00 Resid rate (us/s) 7.19138E-07 +/- 1.1E-10
 Total phase (deg) -213.2 Apriori accel (us/s/s) 2.30581858120E-05 Resid phase (deg) 17.3 +/- 0.3

RMS Theor. Amplitude 9.037 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 6.8 0.8 Search (1024X32) 8.543 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 1.4 1.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 16.1 0.5 Inc. seg. avg. 9.093 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 5.3 0.9 Inc. frq. avg. 9.299 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

A: az 70.9 el 33.8 pa -119.7 P: az 201.2 el 53.0 pa 17.1 u,v (fr/asec) -7981.828 -8716.205 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618//AP..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618//AP.W.27.3MP1KJ



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



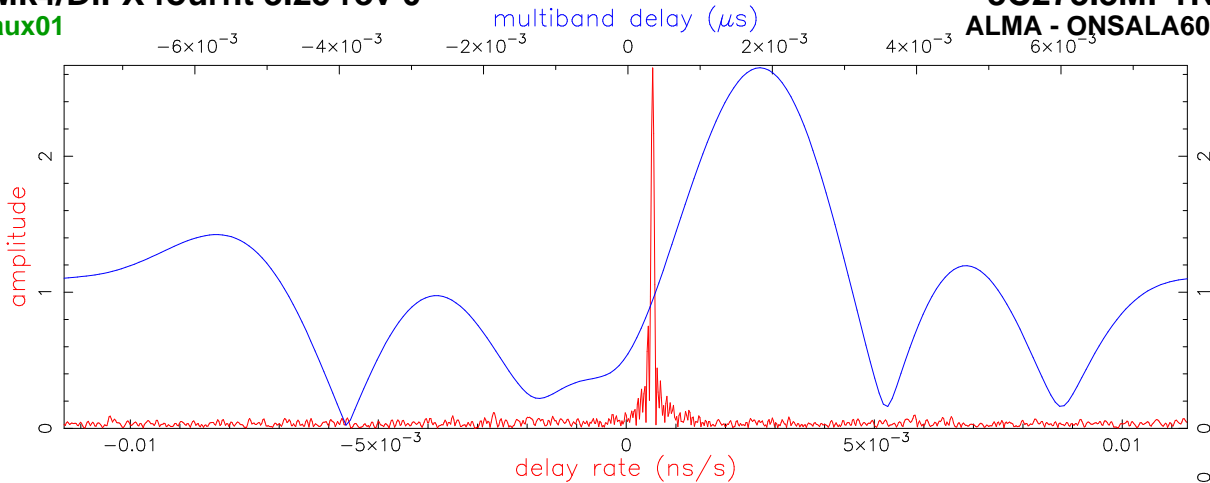
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
102.3	114.7	99.6	74.1	77.2	115.8	104.4	102.3	102.3	Phase	99.2
9.5	9.1	8.6	8.2	8.6	8.7	8.6	8.3	8.3	Ampl.	8.7
255.1	254.9	254.8	255.3	255.6	255.2	255.3	255.1	255.1	Sbd box	255.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
A:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:P	0:-79	0:-44	0:-34	0:-8	0:-28	0:36	0:27	0:39	Mani PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UX	W12UX	W13UX	W14UX	W15UX	W16UX	W17UX	W18UX	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	-7.14632168363E+03		Apriori delay (usec)	-7.14630749524E+03	Resid mbdelay (usec)	1.43661E-03	+/-	3.5E-06		
Sband delay (usec)	-7.14631495074E+03		Apriori clock (usec)	-2.1065200E+03	Resid sbdelay (usec)	-7.45550E-03	+/-	2.8E-05		
Phase delay (usec)	-7.14630749204E+03		Apriori clockrate (us/s)	-6.0906900E-07	Resid phdelay (usec)	3.19829E-06	+/-	1.2E-08		
Delay rate (us/s)	1.39468025087E+00		Apriori rate (us/s)	1.39467953187E+00	Resid rate (us/s)	7.18993E-07	+/-	1.1E-10		
Total phase (deg)		-131.3	Apriori accel (us/s/s)	2.30581858120E-05	Resid phase (deg)	99.2	+/-	0.4		
RMS	6.8	0.9	Amplitude	8.437 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	6.8	0.9	Search (1024X32)	7.968	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	1.4	1.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	16.7	0.5	Inc. seg. avg.	8.489	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011		
amp/frq (%)	5.5	0.9	Inc. frq. avg.	8.700	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00	
A: az 70.9 el 33.8 pa -119.7			P: az 201.2 el 53.0 pa 17.1							simultaneous interpolator
Control file: cf_1234_gmva			Input file: /Exps/c241b/v2/3mm/1234/No0618//AP..3MP1KJ							Output file: /Exps/c241b/v2/3mm/1234/No0618//AP.W.5.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

aux01

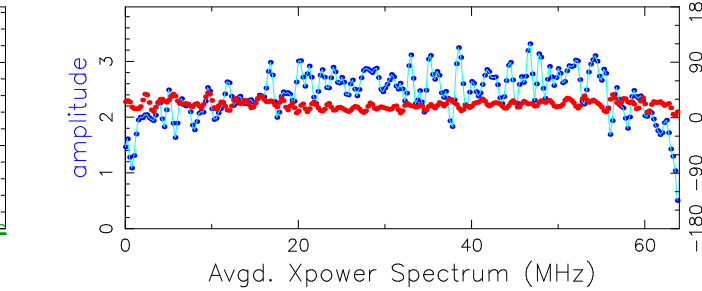
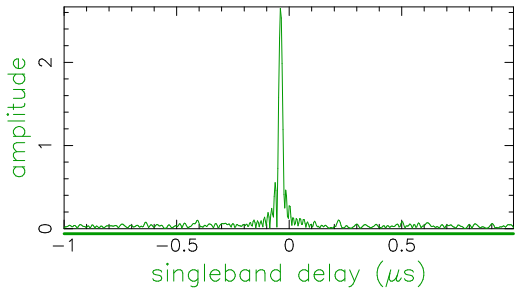
3C273.3MP1KJ, No0618, AX

ALMA - ONSALA60, fgroup W, pol YR



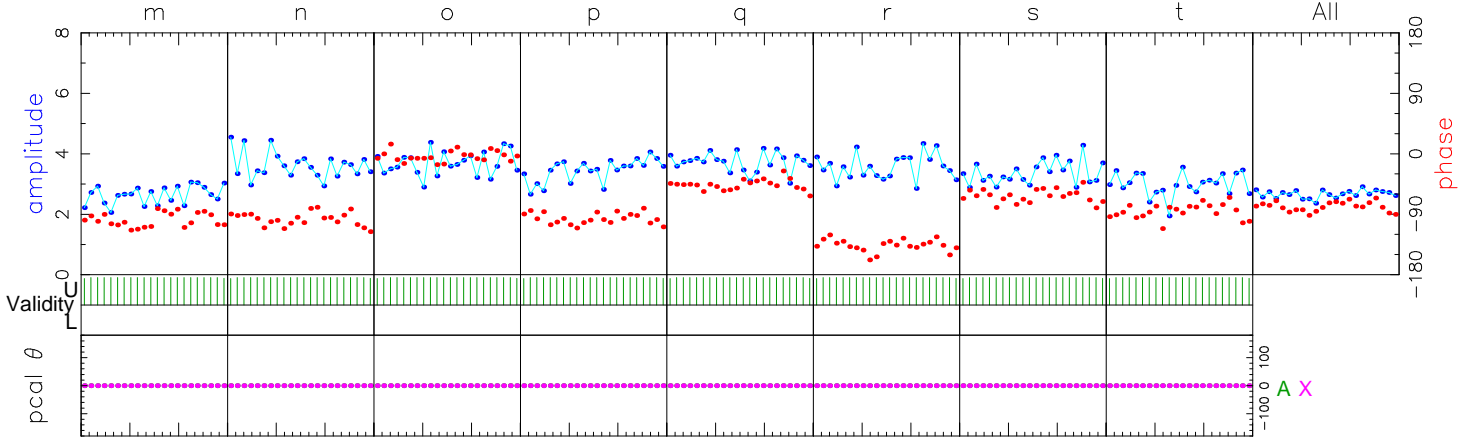
Fringe quality 6

SNR 97.7
 Int time 179.690
 Amp 2.667
 Phase -78.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.038062
 MBD 0.001857
 Fringe rate (Hz)
 0.046418
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234000.00
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build
 2024:359:200643
 2025:041:171321
 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
	-98.1	-97.0	-3.9	-96.5	-46.2	-136.0	-62.2	-85.7	Phase	-78.5
	2.6	3.6	3.7	3.4	3.7	3.5	3.3	2.9	Ampl.	3.3
	248.2	247.0	246.7	246.6	246.6	246.9	246.8	247.9	Sbd box	247.3
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	
X	0	0	0	0	0	0	0	0	PC freqs	
A:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UY	W12UY	W13UY	W14UY	W15UY	W16UY	W17UY	W18UY	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-9.81632668609E+02	Apriori delay (usec)	-9.81587650676E+02	Resid mbdelay (usec)	1.85707E-03	+/-	1.1E-05
Sband delay (usec)	-9.81625712426E+02	Apriori clock (usec)	-2.2201655E+03	Resid sbdelay (usec)	-3.80617E-02	+/-	8.8E-05
Phase delay (usec)	-9.81587653207E+02	Apriori clockrate (us/s)	-1.2274550E-06	Resid phdelay (usec)	-2.53023E-06	+/-	3.8E-08
Delay rate (us/s)	1.51345473055E+00	Apriori rate (us/s)	1.51345419168E+00	Resid rate (us/s)	5.38862E-07	+/-	3.6E-10
Total phase (deg)	-161.0	Apriori accel (us/s/s)	-1.12314272565E-05	Resid phase (deg)	-78.5	+/-	1.2

ph/seg (deg)	7.0	Theor.	2.8	Amplitude	2.667 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	4.8	Search (1024X32)	2.540	Search	0.000E+00	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	43.4	Inc. seg. avg.	2.667	Inc. seg. avg.	2.667	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	28.8	Inc. frq. avg.	3.344	Inc. frq. avg.	3.344	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 70.9 el 33.8 pa -119.7 X: az 212.8 el 30.3 pa 17.1 u,v (fr/asec) -8681.347 -10929.122 simultaneous interpolator

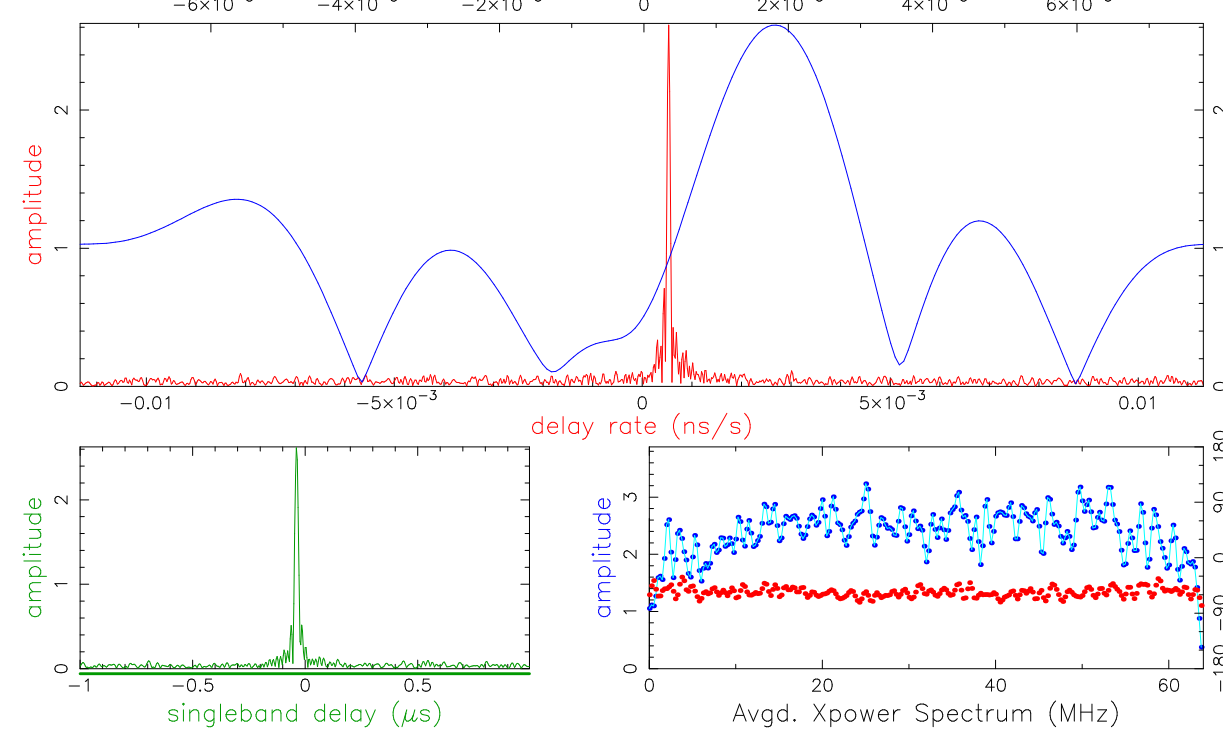
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618//AX..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618//AX.W.10.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, AX

ALMA - ONSALA60, fgroup W, pol XR

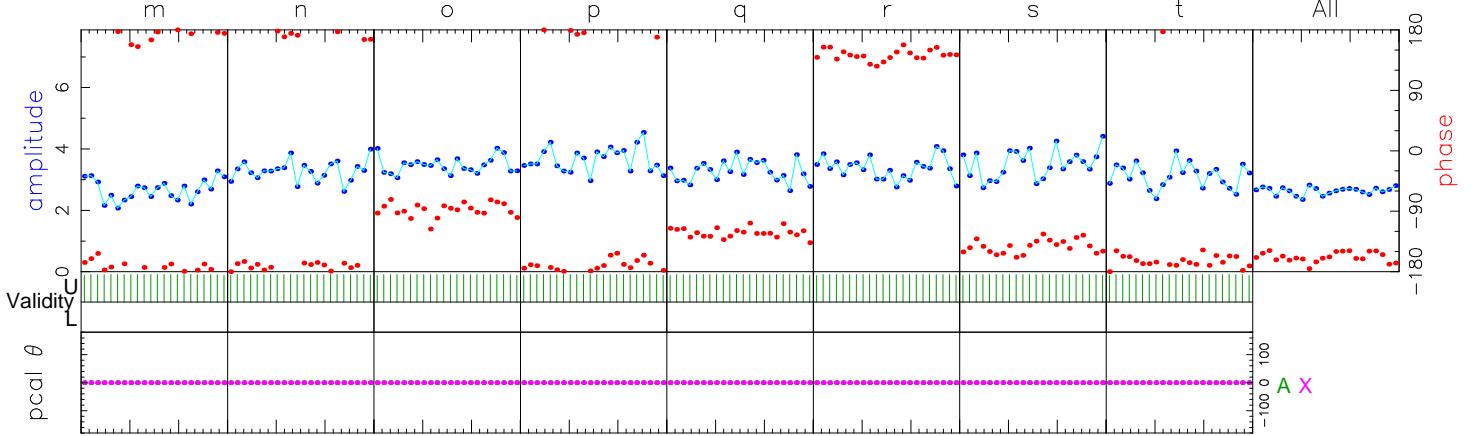


Fringe quality 6

SNR 96.2
 Int time 179.690
 Amp 2.628
 Phase -158.1
 PFD 0.0e+00
 Delays (us)
 SBD -0.038275
 MBD 0.001837
 Fringe rate (Hz) 0.046436
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234000.00
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build 2024:359:200643
 2025:041:171323
 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
	-177.7	-176.9	-87.8	-172.5	-121.8	142.7	-142.4	-165.1	Phase	-158.1
	2.6	3.2	3.4	3.6	3.3	3.4	3.5	3.1	Ampl.	3.3
	248.4	246.9	246.7	246.6	246.5	246.7	246.8	247.8	Sbd box	247.2
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	
X	0	0	0	0	0	0	0	0	PC freqs	
A:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UX	W12UX	W13UX	W14UX	W15UX	W16UX	W17UX	W18UX	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	-9.81632688640E+02	Apriori delay (usec)	-9.81587650676E+02	Resid mbdelay (usec)	1.83704E-03	+/-	1.1E-05
Sband delay (usec)	-9.81625925426E+02	Apriori clock (usec)	-2.2201655E+03	Resid sbdelay (usec)	-3.82748E-02	+/-	9.0E-05
Phase delay (usec)	-9.81587655774E+02	Apriori clockrate (us/s)	-1.2274550E-06	Resid phdelay (usec)	-5.09733E-06	+/-	3.8E-08
Delay rate (us/s)	1.51345473076E+00	Apriori rate (us/s)	1.51345419168E+00	Resid rate (us/s)	5.39076E-07	+/-	3.7E-10
Total phase (deg)	-240.6	Apriori accel (us/s/s)	-1.12314272565E-05	Resid phase (deg)	-158.1	+/-	1.2

ph/seg (deg)	7.2	Theor.	2.8	Amplitude	2.628 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	4.6		4.9	Search (1024X32)	2.499	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	42.8		1.7	Inc. seg. avg.	2.636	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	26.4		2.9	Inc. frq. avg.	3.257	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 70.9 el 33.8 pa -119.7 X: az 212.8 el 30.3 pa 17.1 u,v (fr/asec) -8681.347 -10929.122 simultaneous interpolator

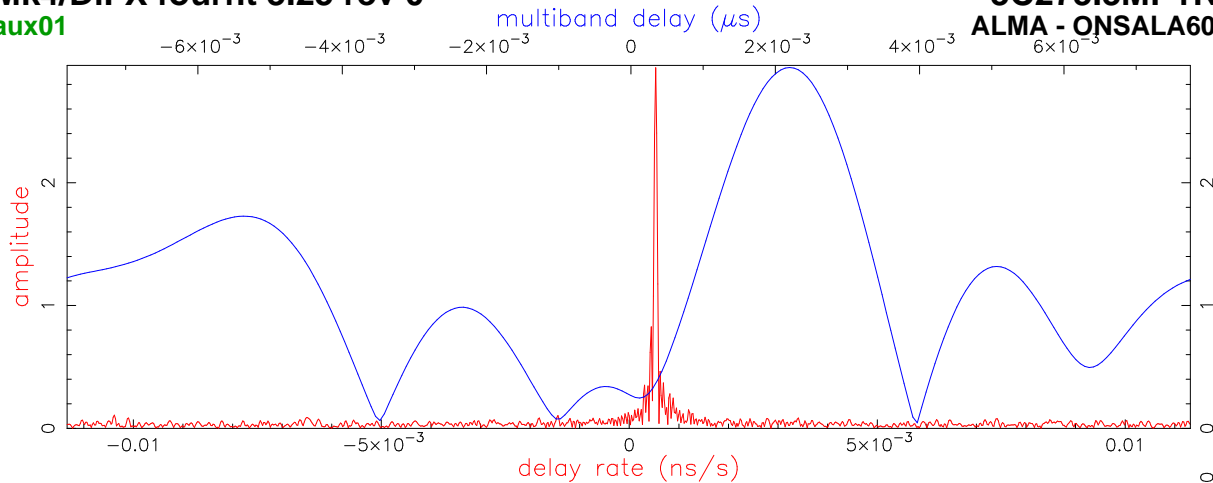
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618//AX..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618//AX.W.18.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

aux01

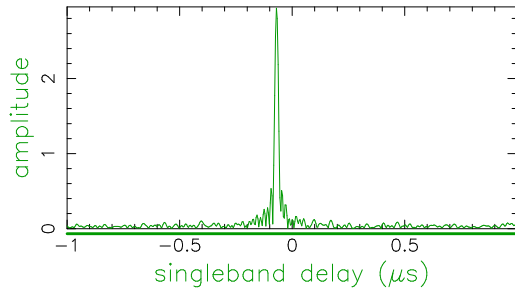
3C273.3MP1KJ, No0618, AX

ALMA - ONSALA60, fgroup W, pol YL

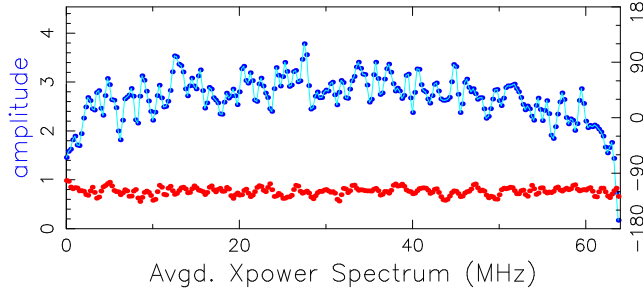


Fringe quality 6

SNR 108.2
 Int time 179.690
 Amp 2.955
 Phase 135.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.069379
 MBD 0.002221
 Fringe rate (Hz)
 0.046423
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

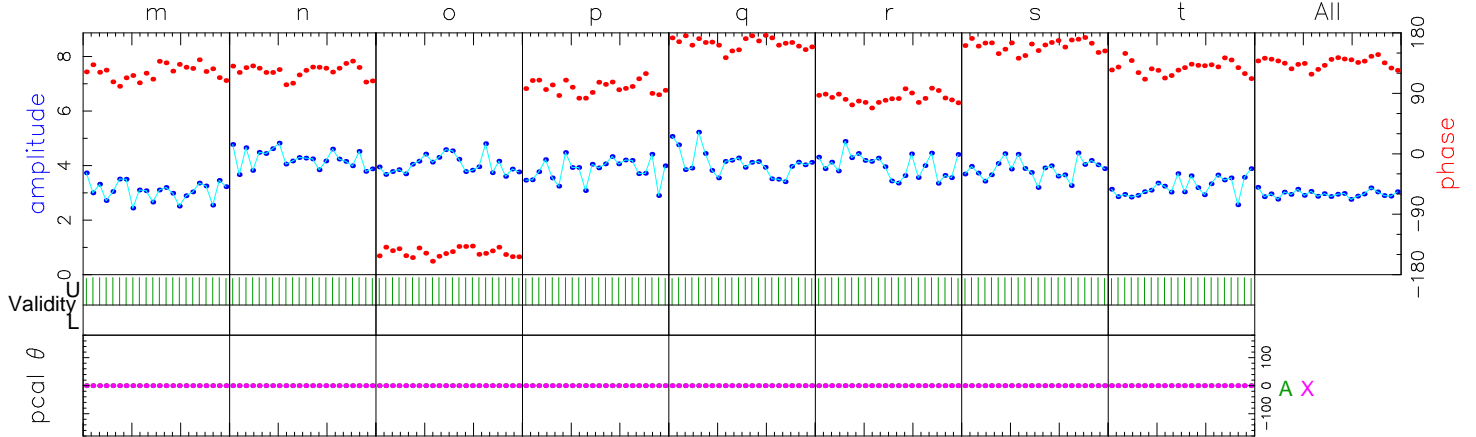


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234000.00
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build
 2024:359:200643
 2025:041:171326
 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
	121.1	123.1	-146.7	99.3	164.7	82.7	160.5	127.4	Phase	135.5
	3.0	4.2	4.0	3.8	4.1	4.0	3.8	3.2	Ampl.	3.8
	240.6	238.8	238.9	238.6	238.9	238.8	238.8	239.5	Sbd box	239.2
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	
X	0	0	0	0	0	0	0	0	PC freqs	
A:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UY	W12UY	W13UY	W14UY	W15UY	W16UY	W17UY	W18UY	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-9.81663554547E+02	Apriori delay (usec)	-9.81587650676E+02	Resid mbdelay (usec)	2.22113E-03	+/-	1.0E-05
Sband delay (usec)	-9.81657029426E+02	Apriori clock (usec)	-2.2201655E+03	Resid sbdelay (usec)	-6.93787E-02	+/-	8.0E-05
Phase delay (usec)	-9.81587646306E+02	Apriori clockrate (us/s)	-1.2274550E-06	Resid phdelay (usec)	4.37031E-06	+/-	3.4E-08
Delay rate (us/s)	1.51345473061E+00	Apriori rate (us/s)	1.51345419168E+00	Resid rate (us/s)	5.38929E-07	+/-	3.3E-10
Total phase (deg)	53.0	Apriori accel (us/s/s)	-1.12314272565E-05	Resid phase (deg)	135.5	+/-	1.1

ph/seg (deg)	RMS 7.2	Theor. 2.5	Amplitude Search (1024X32)	2.804	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	7.2	2.5	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)	3.9	4.3	Inc. seg. avg.	2.961	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256 t_cohere infinite	dr window (ns/s)	-0.011	0.011
amp/frq (%)	44.8	1.5	Inc. frq. avg.	3.761	Data rate(Mb/s): 2048		ion window (TEC)	0.00	0.00

A: az 70.9 el 33.8 pa -119.7 X: az 212.8 el 30.3 pa 17.1 u,v (fr/asec) -8681.347 -10929.122 simultaneous interpolator

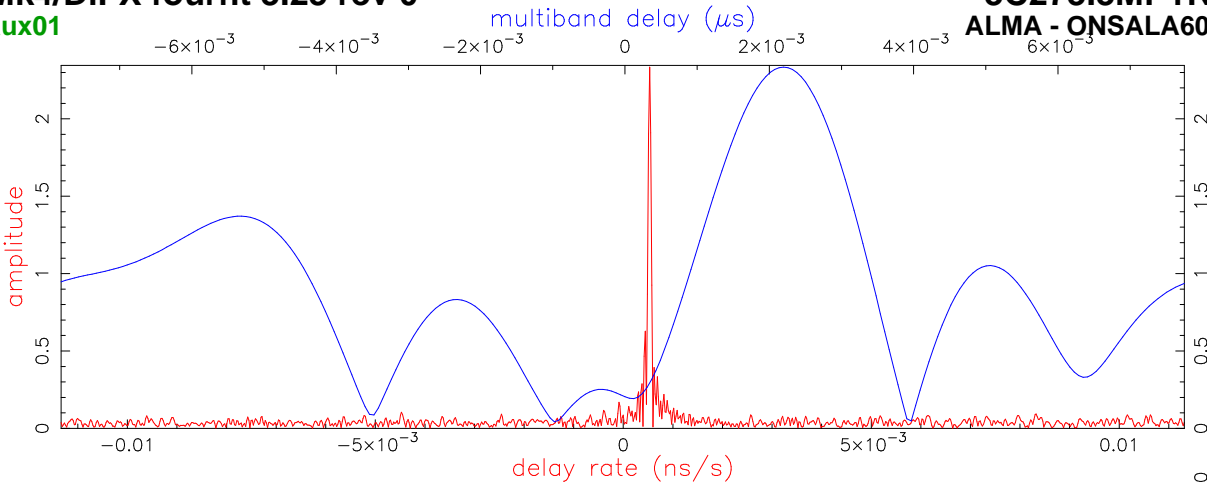
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618//AX..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618//AX.W.26.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

aux01

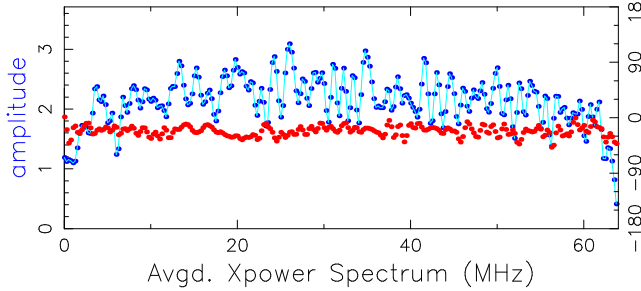
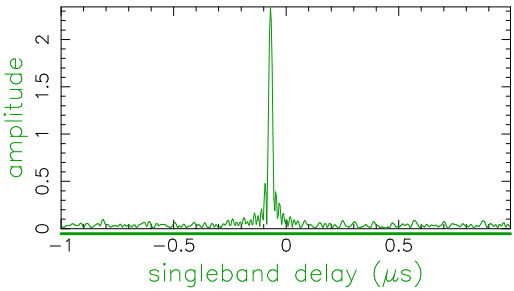
3C273.3MP1KJ, No0618, AX

ALMA - ONSALA60, fgroup W, pol XL



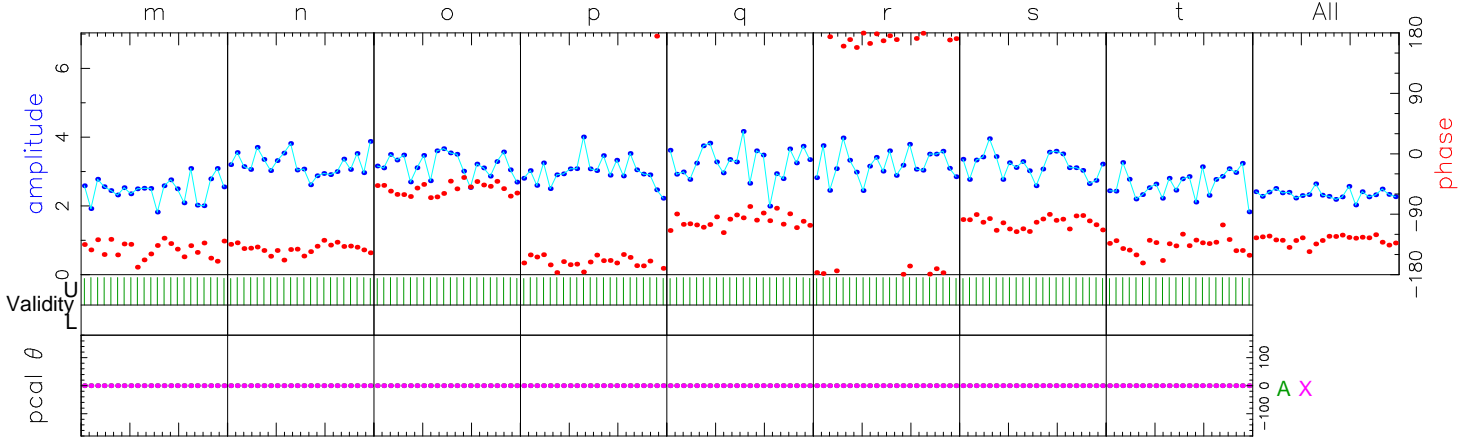
Fringe quality 6

SNR 85.9
 Int time 179.690
 Amp 2.346
 Phase -128.1
 PFD 0.0e+00
 Delays (us)
 SBD -0.069515
 MBD 0.002218
 Fringe rate (Hz) 0.046410
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234000.00
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build
 2024:359:200643
 2025:041:171319
 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
	-142.3	-141.3	-52.1	-162.0	-99.5	175.9	-102.4	-136.0	Phase	-128.1
	2.4	3.2	3.2	3.0	3.2	3.2	3.1	2.6	Ampl.	3.0
	240.6	238.9	238.8	238.6	238.8	238.8	238.8	239.3	Sbd box	239.2
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	
X	0	0	0	0	0	0	0	0	PC freqs	
A:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UX	W12UX	W13UX	W14UX	W15UX	W16UX	W17UX	W18UX	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-9.81663557672E+02	Apriori delay (usec)	-9.81587650676E+02	Resid mbdelay (usec)	2.21800E-03	+/-	1.3E-05
Sband delay (usec)	-9.81657165426E+02	Apriori clock (usec)	-2.2201655E+03	Resid sbdelay (usec)	-6.95148E-02	+/-	1.0E-04
Phase delay (usec)	-9.81587654807E+02	Apriori clockrate (us/s)	-1.2274550E-06	Resid phdelay (usec)	-4.13053E-06	+/-	4.3E-08
Delay rate (us/s)	1.51345473046E+00	Apriori rate (us/s)	1.51345419168E+00	Resid rate (us/s)	5.38777E-07	+/-	4.1E-10
Total phase (deg)	-210.6	Apriori accel (us/s/s)	-1.12314272565E-05	Resid phase (deg)	-128.1	+/-	1.3

ph/seg (deg)	6.2	Theor.	3.1	Amplitude	2.346 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	5.6		5.5	Search (1024X32)	2.232	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	44.7		1.9	Inc. seg. avg.	2.347	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	29.9		3.3	Inc. frq. avg.	2.983	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
A:	az 70.9 el 33.8 pa -119.7	X:	az 212.8 el 30.3 pa 17.1	u,v (fr/asec)	-8681.347 -10929.122	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/No0618//AX..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618//AX.W.4.3MP1KJ simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

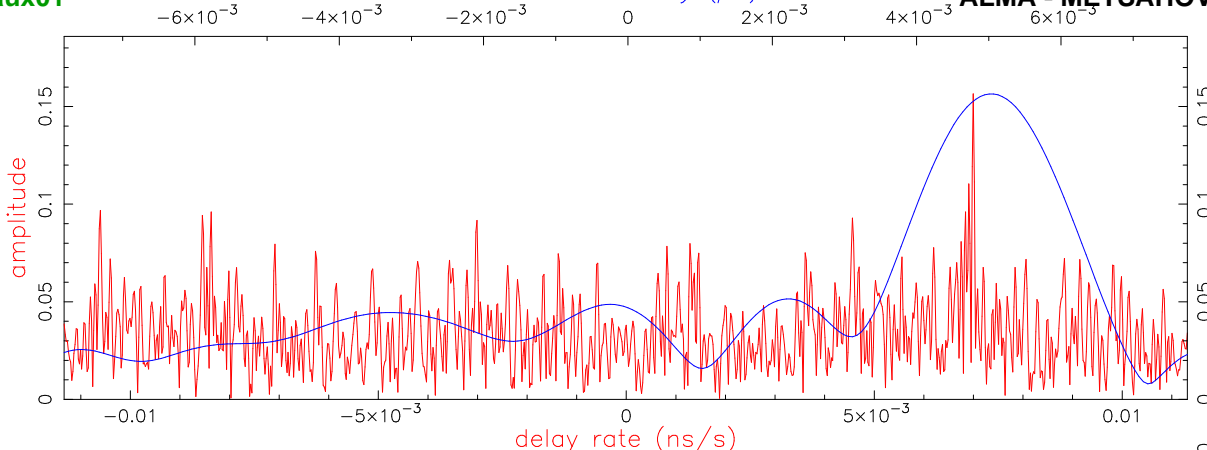
aux01

3C273.3MP1KJ, No0618, AZ

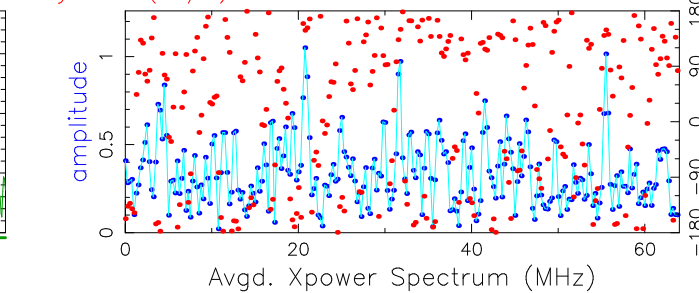
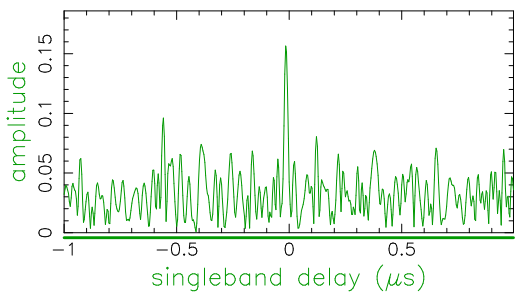
ALMA - METSAHOV, fgroup W, pol XL

multiband delay (μ s)

Fringe quality 0

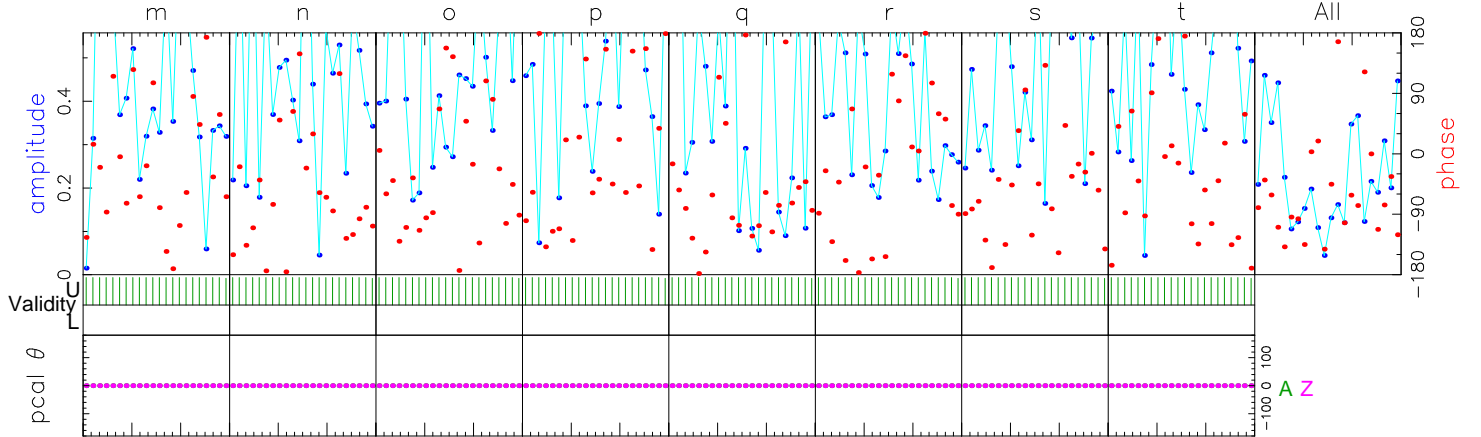


SNR 5.8
 Int time 179.970
 Amp 0.186
 Phase -79.4
 PFD 5.6e-01
 Delays (us)
 SBD -0.014351
 MBD 0.005024
 Fringe rate (Hz)
 0.603303
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234000.00
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build
 2024:359:200643
 2025:041:171317
 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
	-49.6	-83.8	-83.7	-95.5	-85.1	-153.1	-66.9	-70.8	5.02440E-03	+/- 1.9E-04
	0.1	0.2	0.2	0.2	0.3	0.0	0.3	0.2	-1.43507E-02	+/- 1.5E-03
	505.2	425.0	254.6	228.3	252.8	134.7	476.2	350.8	-2.55888E-06	+/- 6.4E-07
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	7.00375E-06	+/- 6.1E-09
A	0	0	0	0	0	0	0	0	-79.4	+/- 19.8
Z	0	0	0	0	0	0	0	0		
A:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
A:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
A	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UX	W12UX	W13UX	W14UX	W15UX	W16UX	W17UX	W18UX		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD) 1.20506434211E+03 Apriori delay (usec) 1.20507494271E+03 Resid mbdelay (usec) 5.02440E-03 +/- 1.9E-04
 Sband delay (usec) 1.20506059196E+03 Apriori clock (usec) -2.1076426E+03 Resid sbdelay (usec) -1.43507E-02 +/- 1.5E-03
 Phase delay (usec) 1.20507494015E+03 Apriori clockrate (us/s) -6.2069187E-07 Resid phdelay (usec) -2.55888E-06 +/- 6.4E-07
 Delay rate (us/s) 1.62064094620E+00 Apriori rate (us/s) 1.62063394246E+00 Resid rate (us/s) 7.00375E-06 +/- 6.1E-09
 Total phase (deg) 124.1 Apriori accel (us/s/s) -2.23571106345E-05 Resid phase (deg) -79.4 +/- 19.8

ph/seg (deg) 61.0 46.3 Search (1024X32) 0.154 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 88.5 80.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 33.9 27.9 Inc. seg. avg. 0.202 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 41.9 48.8 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

A: az 70.9 el 33.8 pa -119.7 Z: az 225.1 el 24.0 pa 20.7 u,v (fr/asec) -9301.525 -11184.784 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618/AZ..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618/AZ.W.1.3MP1KJ

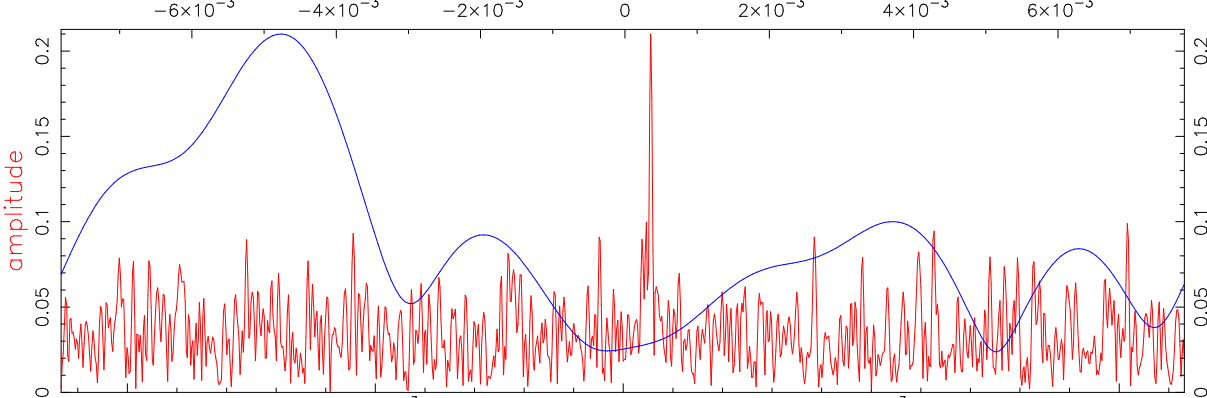
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, AZ

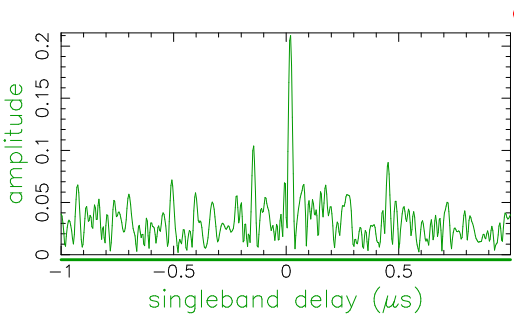
ALMA - METSAHOV, fgroup W, pol XR

multiband delay (μ s)

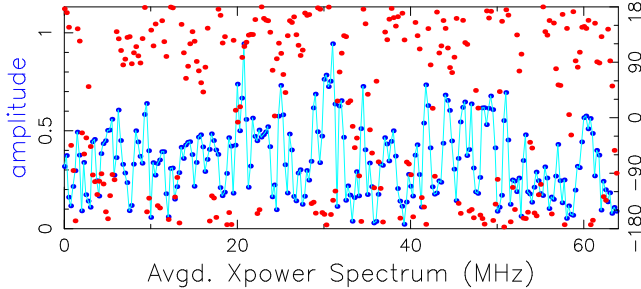


Fringe quality 9

SNR 7.8
 Int time 179.970
 Amp 0.213
 Phase 64.1
 PFD 1.1e-06
 Delays (us)
 SBD 0.018079
 MBD -0.004773
 Fringe rate (Hz)
 0.048680
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

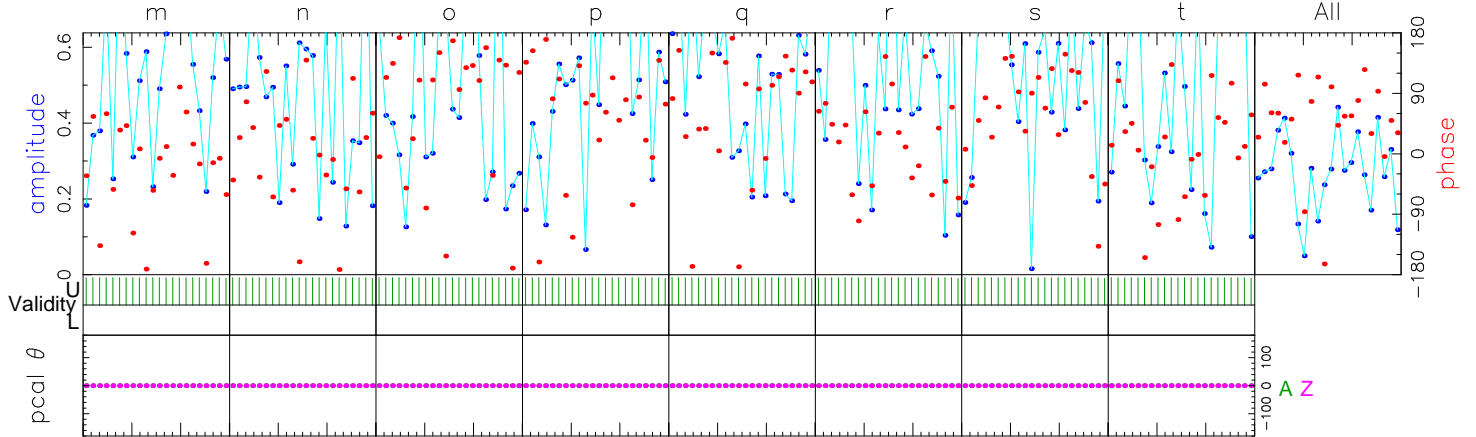


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234000.00
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build
 2024:359:200643
 2025:041:171322
 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
	12.1	20.1	130.8	81.5	108.6	37.1	75.6	23.0	Phase	64.1
	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	Ampl.	0.3
	263.1	231.5	263.0	103.3	260.2	261.8	260.4	217.5	Sbd box	261.6
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	
Z	0	0	0	0	0	0	0	0	PC freqs	
A:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UX	W12UX	W13UX	W14UX	W15UX	W16UX	W17UX	W18UX	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	1.20508579506E+03	Apriori delay (usec)	1.20507494271E+03	Resid mbdelay (usec)	-4.77266E-03	+/-	1.4E-04
Sband delay (usec)	1.20509302146E+03	Apriori clock (usec)	-2.1076426E+03	Resid sbdelay (usec)	1.80787E-02	+/-	1.1E-03
Phase delay (usec)	1.20507494478E+03	Apriori clockrate (us/s)	-6.2069187E-07	Resid phdelay (usec)	2.06864E-06	+/-	4.7E-07
Delay rate (us/s)	1.62063450758E+00	Apriori rate (us/s)	1.62063394246E+00	Resid rate (us/s)	5.65127E-07	+/-	4.6E-09
Total phase (deg)	267.6	Apriori accel (us/s/s)	-2.23571106345E-05	Resid phase (deg)	64.1	+/-	14.7

ph/seg (deg)	54.3	Theor.	34.5	Amplitude	0.213 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	54.8	Search (1024X32)	0.200	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)	48.2	Inc. seg. avg.	0.231	Inc. frq. avg.	0.263	Bits/sample: 2x2	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011
amp/frq (%)	38.1	Inc. frq. avg.	0.263			Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

A: az 70.9 el 33.8 pa -119.7 Z: az 225.1 el 24.0 pa 20.7 u,v (fr/asec) -9301.525 -11184.784 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618/AZ..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618/AZ.W.15.3MP1KJ

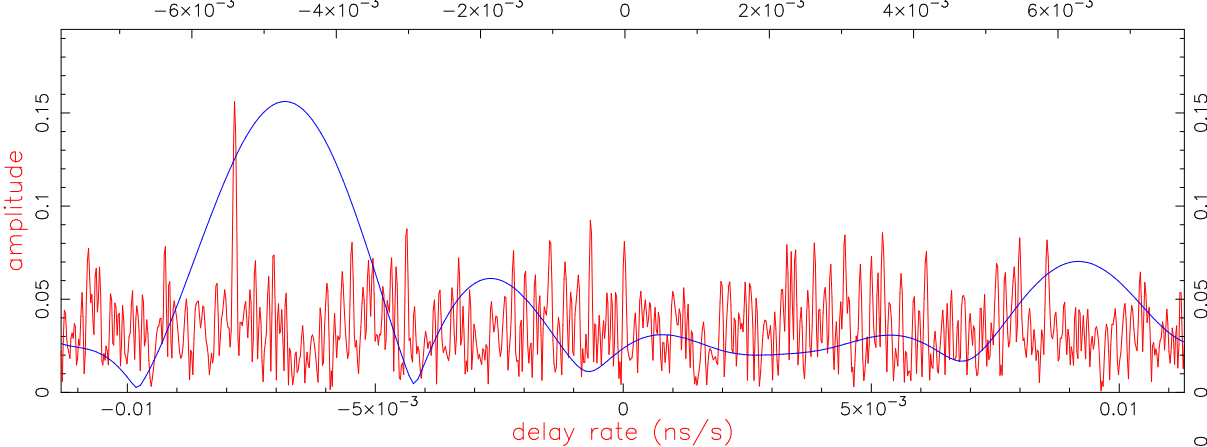
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP1KJ, No0618, AZ

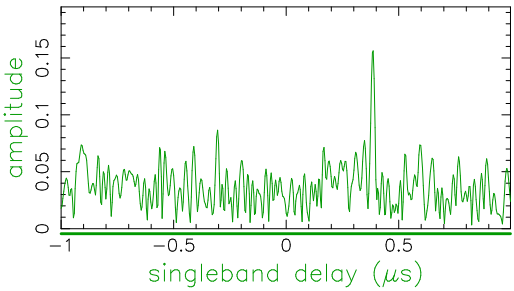
ALMA - METSAHOV, fgroup W, pol YL

multiband delay (μ s)

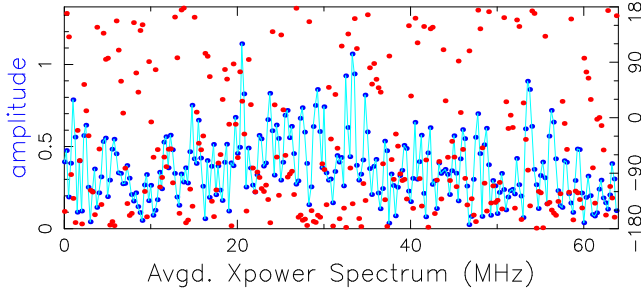


Fringe quality 0

SNR 5.8
 Int time 179.970
 Amp 0.195
 Phase 29.6
 PFD 5.2e-01
 Delays (us)
 SBD 0.385015
 MBD -0.004691
 Fringe rate (Hz)
 -0.675675
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

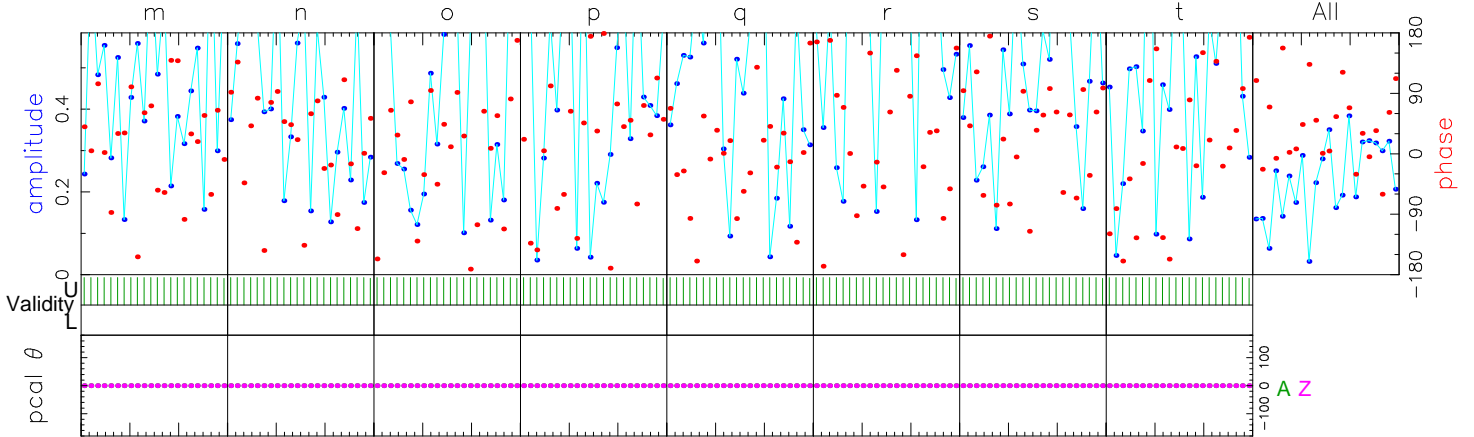


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234000.00
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build
 2024:359:200643
 2025:041:171324
 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
	13.0	55.5	53.0	37.6	-6.3	21.7	43.4	19.8	Phase	29.6
	0.2	0.2	0.2	0.2	0.2	0.1	0.3	0.2	Ampl.	0.2
	178.2	273.9	28.8	73.9	298.8	295.5	429.4	83.8	Sbd box	355.6
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	
Z	0	0	0	0	0	0	0	0	PC freqs	
A:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UY	W12UY	W13UY	W14UY	W15UY	W16UY	W17UY	W18UY	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	1.20546087647E+03	Apriori delay (usec)	1.20507494271E+03	Resid mbdelay (usec)	-4.69124E-03	+/-	1.9E-04
Sband delay (usec)	1.20545995796E+03	Apriori clock (usec)	-2.1076426E+03	Resid sbdelay (usec)	3.85015E-01	+/-	1.5E-03
Phase delay (usec)	1.20507494367E+03	Apriori clockrate (us/s)	-6.2069187E-07	Resid phdelay (usec)	9.56036E-07	+/-	6.3E-07
Delay rate (us/s)	1.62062609854E+00	Apriori rate (us/s)	1.62063394246E+00	Resid rate (us/s)	-7.84392E-06	+/-	6.1E-09
Total phase (deg)	233.1	Apriori accel (us/s/s)	-2.23571106345E-05	Resid phase (deg)	29.6	+/-	19.7

ph/seg (deg)	57.8	Theor.	46.2	Amplitude	0.195 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	73.0		80.6	Search (1024X32)	0.154	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	23.1		27.8	Inc. seg. avg.	0.212	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	31.0		48.6	Inc. frq. avg.	0.183	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

A: az 70.9 el 33.8 pa -119.7 Z: az 225.1 el 24.0 pa 20.7 u,v (fr/asec) -9301.525 -11184.784 simultaneous interpolator

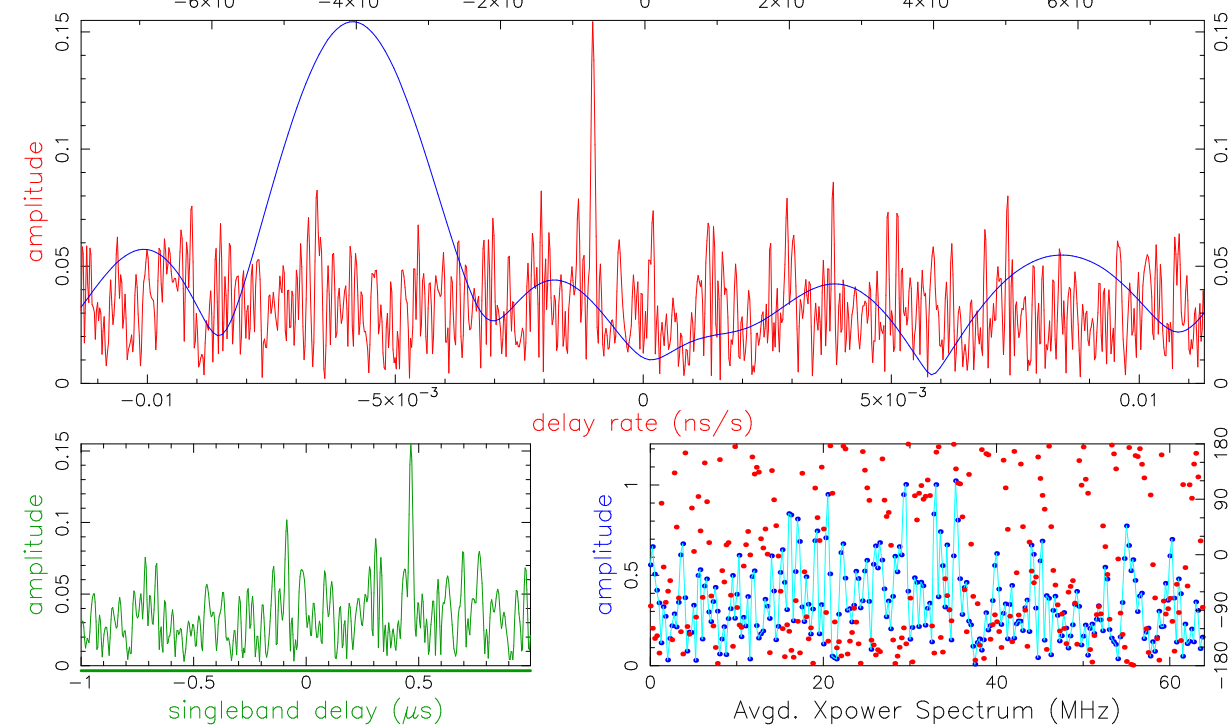
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618/AZ..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618/AZ.W.22.3MP1KJ

Mk4/DiFX fourfit 3.25 rev 0

aux01

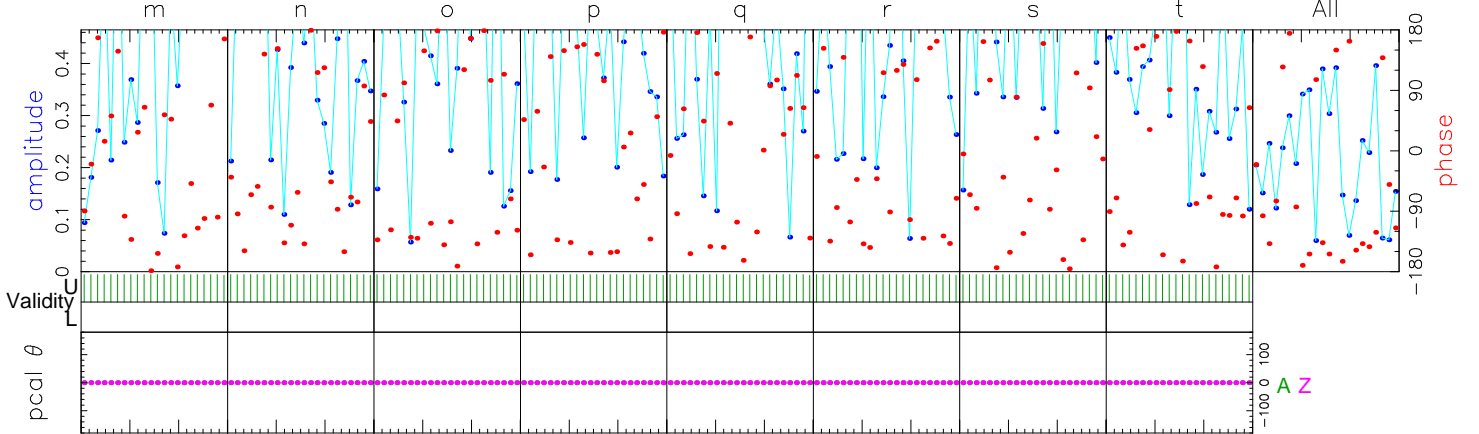
3C273.3MP1KJ, No0618, AZ

ALMA - METSAHOV, fgroup W, pol YR



Fringe quality 0
 SNR 5.7
 Int time 179.970
 Amp 0.155
 Phase -149.4
 PFD 8.3e-01
 Delays (us)
 SBD 0.465060
 MBD -0.004045
 Fringe rate (Hz)
 -0.087140
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:110
 Start 234000.00
 Stop 234300.23
 FRT 234134.00
 Corr/FF/build
 2024:359:200643
 2025:041:171320
 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
	-137.2	-125.1	-160.7	157.3	-160.9	-153.1	-137.2	-140.0	Phase	-149.4
	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.2	Ampl.	0.1
	407.4	259.1	376.4	435.3	183.2	358.7	448.2	329.4	Sbd box	376.1
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	
Z	0	0	0	0	0	0	0	0	PC freqs	
A:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
A	W11UY	W12UY	W13UY	W14UY	W15UY	W16UY	W17UY	W18UY	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec) (SBD)	1.20553964795E+03	Apriori delay (usec)	1.20507494271E+03	Resid mbdelay (usec)	-4.04476E-03	+/-	1.9E-04
Sband delay (usec)	1.20554000246E+03	Apriori clock (usec)	-2.1076426E+03	Resid sbdelay (usec)	4.65060E-01	+/-	1.5E-03
Phase delay (usec)	1.20507493789E+03	Apriori clockrate (us/s)	-6.2069187E-07	Resid phdelay (usec)	-4.81842E-06	+/-	6.5E-07
Delay rate (us/s)	1.62063293085E+00	Apriori rate (us/s)	1.62063394246E+00	Resid rate (us/s)	-1.01160E-06	+/-	6.3E-09
Total phase (deg)	54.1	Apriori accel (us/s/s)	-2.23571106345E-05	Resid phase (deg)	-149.4	+/-	20.2

ph/seg (deg)	57.7	Theor.	47.4	Amplitude	0.155 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	82.5	Search (1024X32)	0.151	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	26.1	Inc. seg. avg.	0.164	Inc. frq. avg.	0.144	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	40.2	Inc. frq. avg.	0.144	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	dr window (ns/s)	-0.011 0.011
									ion window (TEC)	0.00 0.00

A: az 70.9 el 33.8 pa -119.7 Z: az 225.1 el 24.0 pa 20.7 u, v (fr/asec) -9301.525 -11184.784 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0618//AZ..3MP1KJ Output file: /Exps/c241b/v2/3mm/1234/No0618//AZ.W.8.3MP1KJ