

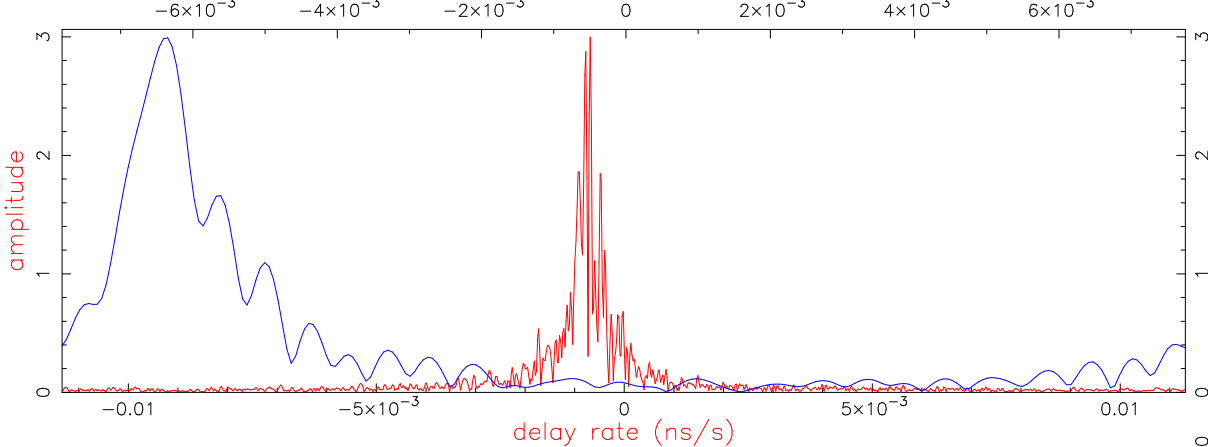
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, AL

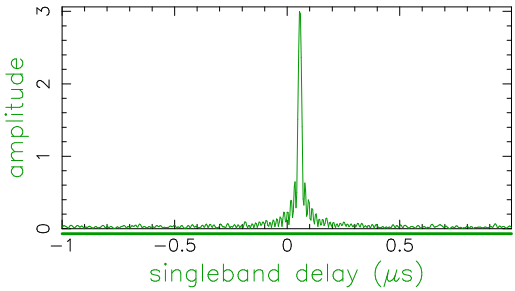
ALMA - JCMT, fgroup W, pol XR

multiband delay (μ s)



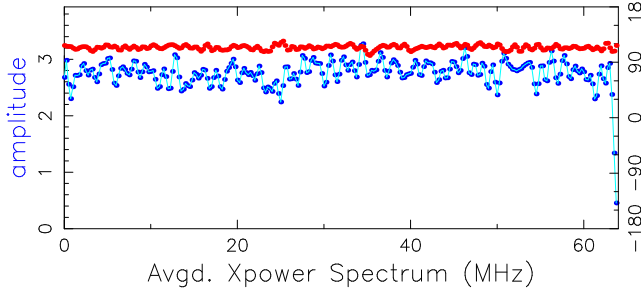
Fringe quality 2

SNR 214.9
Int time 176.130
Amp 3.063
Phase 117.6
PFD 0.0e+00
Delays (us)
SBD 0.056431
MBD -0.006371
Fringe rate (Hz)
-0.059672
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



singleband delay (μ s)

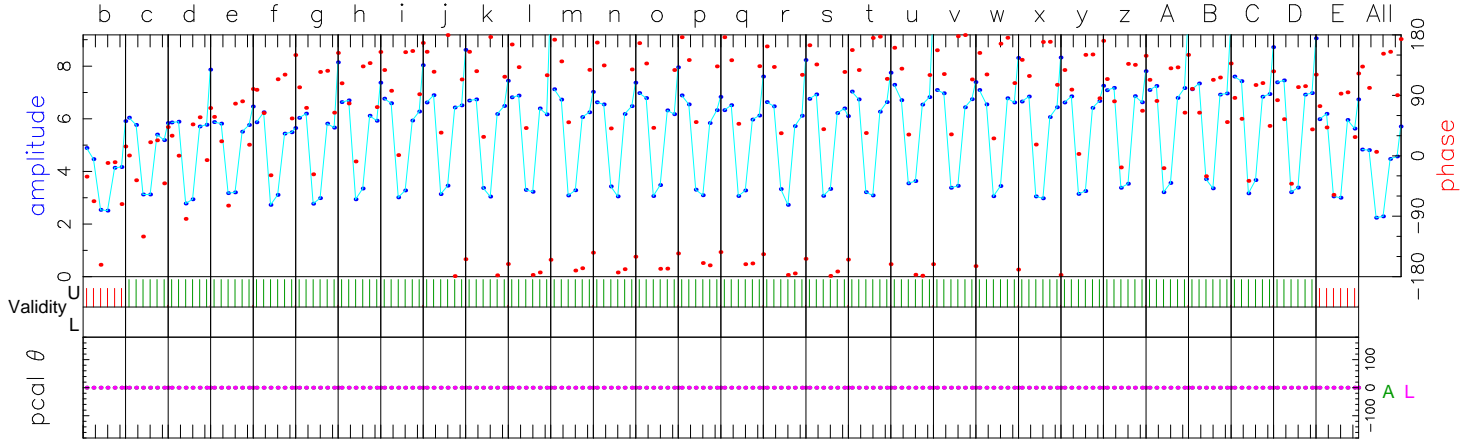
delay rate (ns/s)



Avgd. Xpower Spectrum (MHz)

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

Amp. and Phase vs. time for each freq., 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
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Mk4/DiFX fourfit 3.25 rev 0

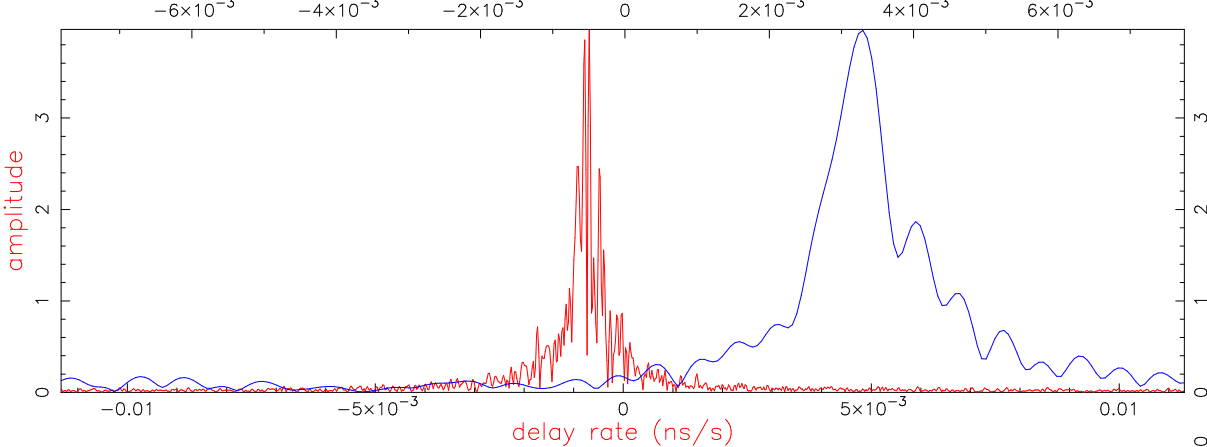
aux01

3C273.3MP2MB, No0707, AL

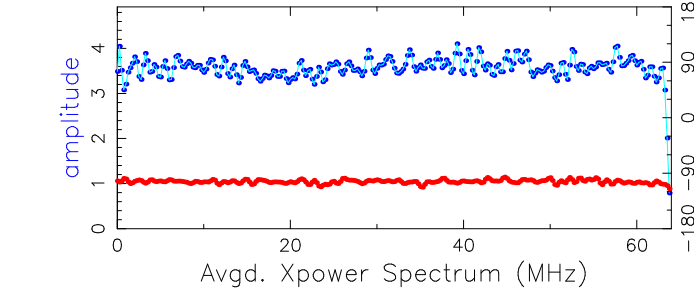
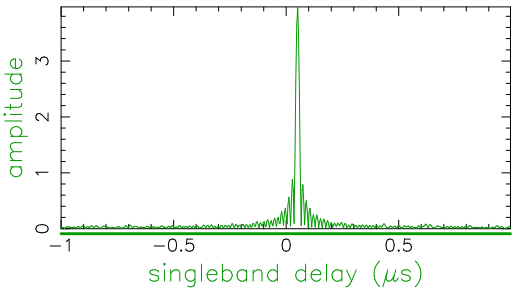
ALMA - JCMT, fgroup W, pol YL

multiband delay (μs)

Fringe quality 2

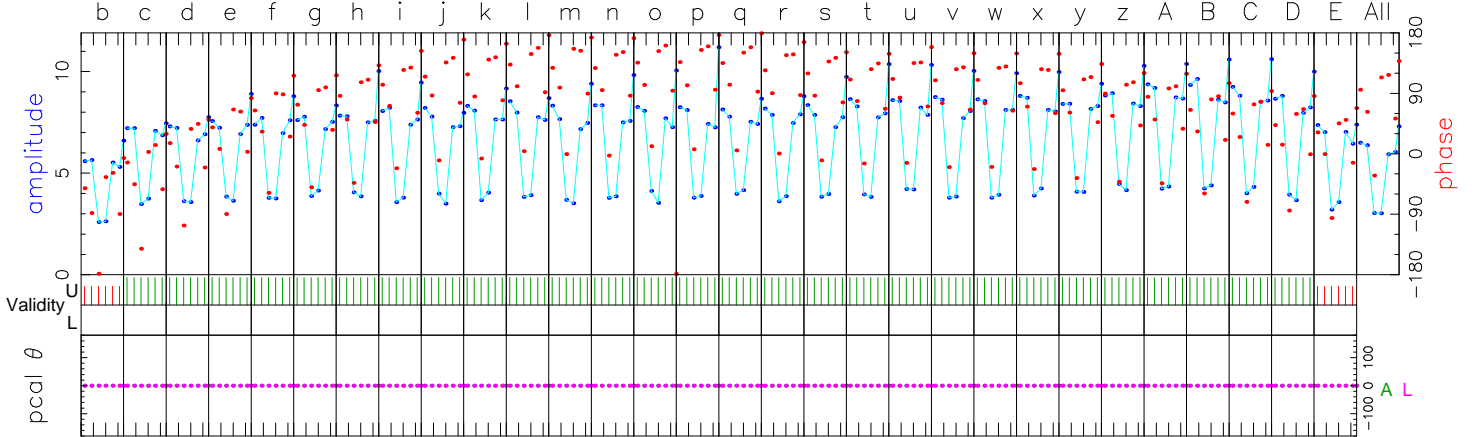


SNR 278.5
 Int time 176.130
 Amp 3.969
 Phase 79.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.050442
 MBD 0.003285
 Fringe rate (Hz)
 -0.059754
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175936
 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			
-66.4	-26.8	1.9	26.0	50.2	59.9	71.3	88.8	101.9	105.1	118.5	115.7	113.0	120.4	121.6	120.0	110.4	103.9	94.8	98.8	92.6	93.2	89.0	77.0	71.0	66.2	48.9	42.3	27.7	16.0	Phase	79.7		
3.5	4.5	4.5	4.6	4.8	4.9	4.9	5.0	4.8	5.1	5.1	4.8	5.0	4.9	5.0	4.9	5.1	5.0	5.2	5.3	5.3	5.4	5.3	5.5	5.8	5.9	5.6	5.3	4.5	Ampl.	5.1			
270.6	270.2	270.2	270.3	270.3	270.1	270.0	270.1	269.8	269.9	270.0	269.7	270.0	270.0	270.1	270.0	270.0	269.8	269.9	269.8	269.6	269.7	269.7	269.7	270.0	270.0	270.1	270.0	269.6	270.1	Sbd box	269.9		
UL	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	352/0	APs used		
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		
L	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	
A.L	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	
A.L	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	
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	PC amp
L	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		
L	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	W20UL	W21UL	W22UL	W23UL	W24UL	W25UL	W26UL	W27UL	W28UL	W29UL	W30UL	Chan ids		

Group delay (usec) (SBD) 1.08736937428E+04 Apriori delay (usec) 1.08736435833E+04 Resid mbdelay (usec) 3.28451E-03 +/- 1.0E-06
 Sband delay (usec) 1.08736940251E+04 Apriori clock (usec) -2.1071943E+03 Resid sbdelay (usec) 5.04417E-02 +/- 3.1E-05
 Phase delay (usec) 1.08736435859E+04 Apriori clockrate (us/s) 3.2525501E-07 Resid phdelay (usec) 2.56947E-06 +/- 1.3E-08
 Delay rate (us/s) -1.74329625748E+00 Apriori rate (us/s) -1.74329556380E+00 Resid rate (us/s) -6.93685E-07 +/- 1.3E-10
 Total phase (deg) 175.3 Apriori accel (us/s/s) -7.17717032987E-05 Resid phase (deg) 79.7 +/- 0.4

RMS Theor. Amplitude 3.969 +/- 0.014 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 52.4 0.5 Search (1024X128) 3.773 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 48.9 0.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 48.2 1.1 Inc. seg. avg. 5.179 Data rate(MSamp/s): 128 MBpts 128 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 29.1 2.0 Inc. frq. avg. 5.055 Data rate(Mb/s): 7680 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

A: az 330.6 el 61.8 pa 152.8 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 9951.136 -6643.255 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//AL...3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//AL.W.138.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

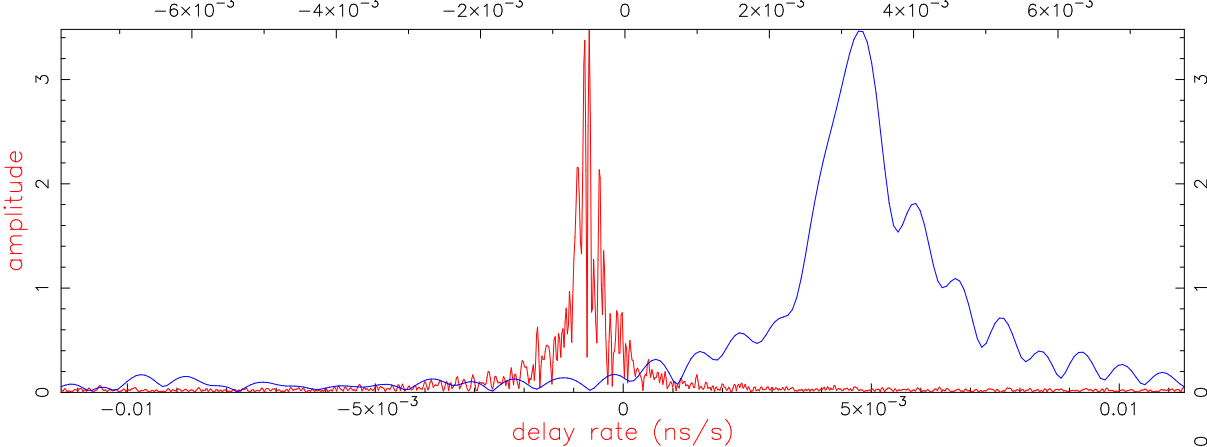
aux01

3C273.3MP2MB, No0707, AL

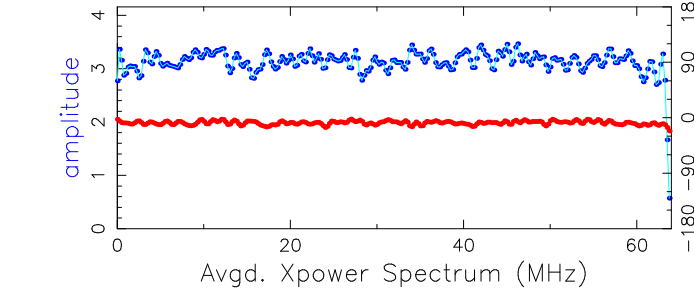
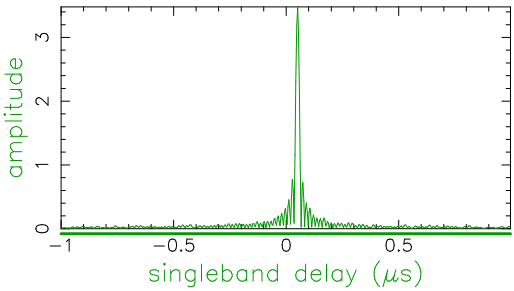
ALMA - JCMT, fgroup W, pol XL

multiband delay (μ s)

Fringe quality 2

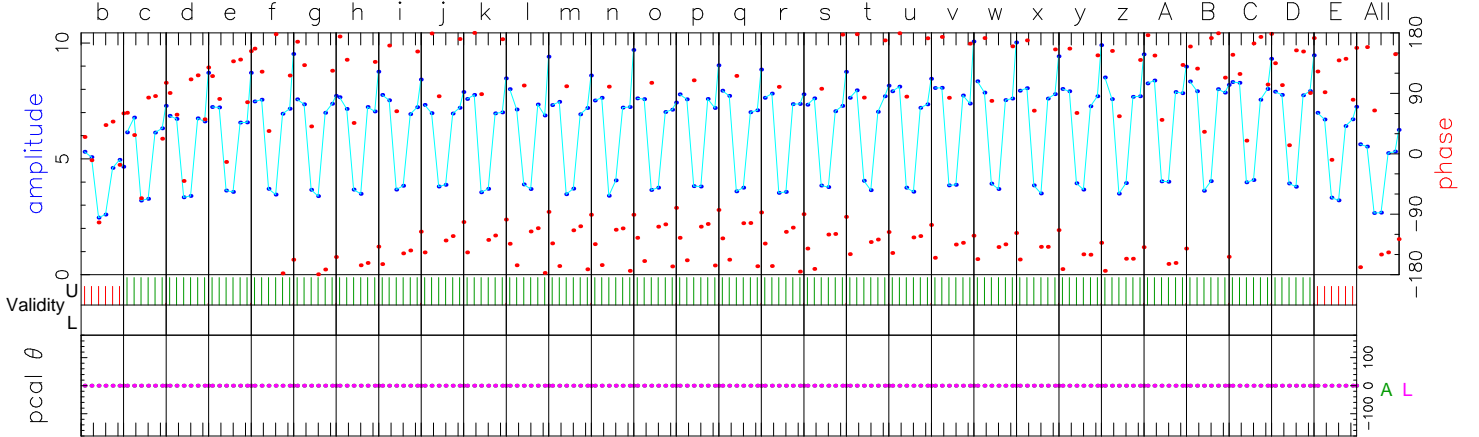


SNR 244.2
 Int time 176.130
 Amp 3.480
 Phase 175.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.050471
 MBD 0.003262
 Fringe rate (Hz)
 -0.059731
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175914
 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



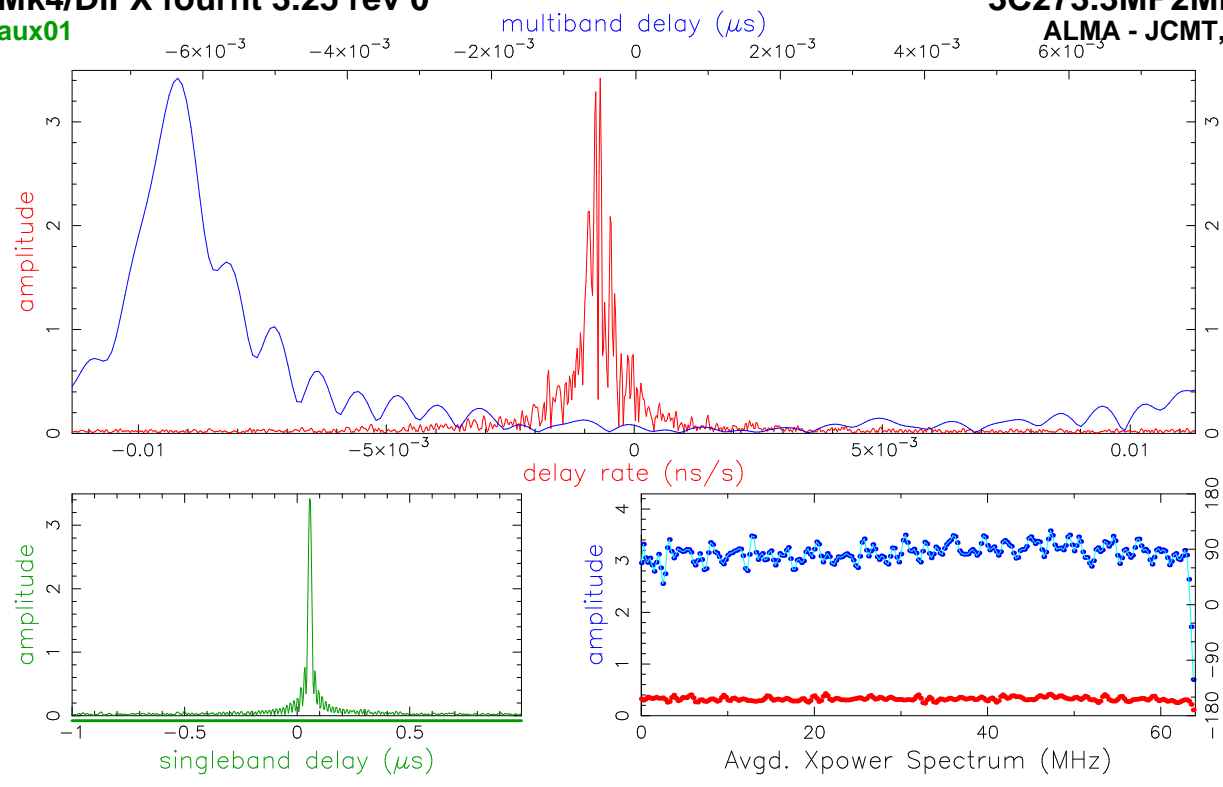
85308.0085372	0085436	0085500	0085564	0085628	0085692	0085756	0085820	0085884	0085948	0086012	0086076	0086140	0086204	0086268	0086332	0086396	0086460	0086524	0086588	0086652	0086716	0086780	0086844	0086908	0086972	0087036	0087100	0087164	0087228	All			
8.9	46.7	77.5	101.1	141.4	149.0	160.3	179.1	-162.4	-162.0	-148.6	-147.5	-141.6	-140.5	-140.4	-148.9	-156.4	-166.6	-162.2	-169.4	-172.2	-174.8	172.8	169.9	161.0	143.1	132.7	117.5	106.5	Phase	175.7			
3.2	4.0	4.3	4.4	4.6	4.7	4.6	4.7	4.5	4.7	4.7	4.6	4.8	4.7	4.9	4.9	4.8	4.8	4.8	5.1	5.0	4.8	4.9	5.1	5.2	5.2	5.1	5.1	4.3	Ampl.	4.7			
270.6	270.1	270.2	270.3	270.3	270.1	270.0	270.3	269.7	269.9	269.9	269.8	269.9	270.0	270.1	270.1	270.0	269.8	269.9	269.8	269.7	269.6	269.7	269.8	270.0	270.0	270.0	269.9	269.6	270.1	Sbd box	269.9		
UL	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			
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		
L	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	
A.L	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	
A.L	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	
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	PC amp
L	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	W00UX	W01UX	W02UX	W03UX	W04UX	W05UX	W06UX	W07UX	W08UX	W09UX	W10UX	W11UX	W12UX	W13UX	W14UX	W15UX	W16UX	W17UX	W18UX	W19UX	W20UX	W21UX	W22UX	W23UX	W24UX	W25UX	W26UX	W27UX	W28UX	W29UX	Chan ids		
L	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	W20UL	W21UL	W22UL	W23UL	W24UL	W25UL	W26UL	W27UL	W28UL	W29UL	W30UL	Chan ids		

Group delay (usec) (SBD)	1.08736937204E+04	Apriori delay (usec)	1.08736435833E+04	Resid mbdelay (usec)	3.26213E-03	+/-	1.2E-06
Sband delay (usec)	1.08736940543E+04	Apriori clock (usec)	-2.1071943E+03	Resid sbdelay (usec)	5.04710E-02	+/-	3.5E-05
Phase delay (usec)	1.08736435890E+04	Apriori clockrate (us/s)	3.2525501E-07	Resid phdelay (usec)	5.66684E-06	+/-	1.5E-08
Delay rate (us/s)	-1.74329625721E+00	Apriori rate (us/s)	-1.74329556380E+00	Resid rate (us/s)	-6.93417E-07	+/-	1.5E-10
Total phase (deg)	271.3	Apriori accel (us/s/s)	-7.17717032987E-05	Resid phase (deg)	175.7	+/-	0.5

ph/seg (deg)	RMS 52.1	Theor. 0.6	Amplitude Search (1024X128)	3.480 +/- 0.014	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	48.4	1.1	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	55.8	1.3	Inc. seg. avg.	4.536	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	37.2	2.2	Inc. frq. avg.	4.736	Data rate(MSamp/s): 128 MBpts	128 Amb 0.016 us	dr window (ns/s)	-0.011	0.011	
					Data rate(Mb/s): 7680	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

A: az 330.6 el 61.8 pa 152.8 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 9951.136 -6643.255 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//AL...3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//AL.W.50.3MP2MB

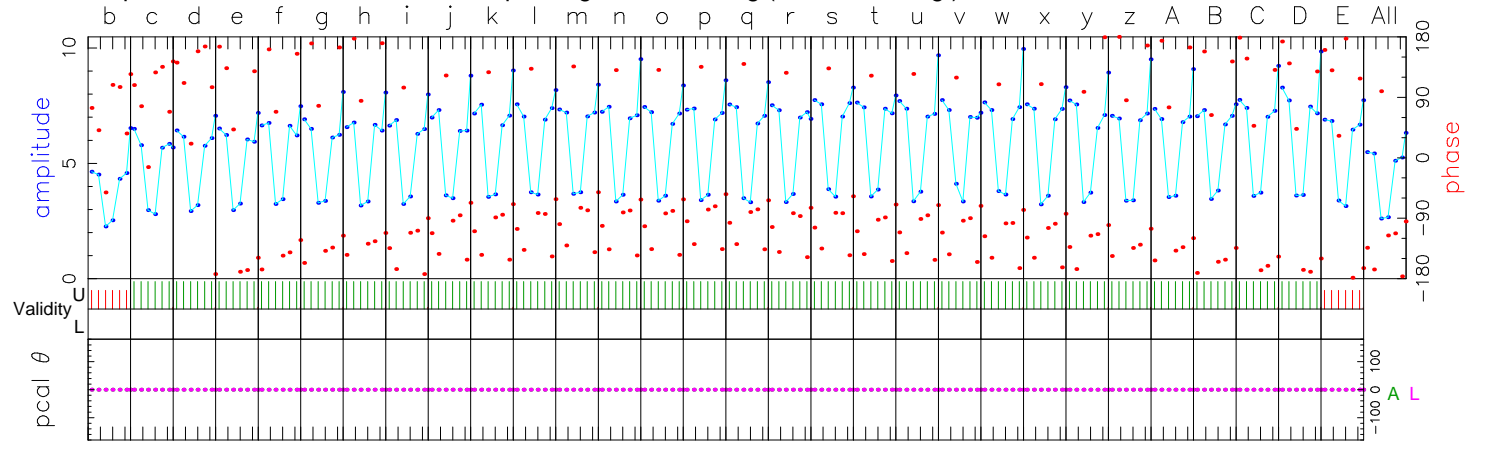


Fringe quality 2

SNR 245.3
Int time 176.130
Amp 3.496
Phase -149.5
PFD 0.0e+00
Delays (us)
SBD 0.056441
MBD -0.006351
Fringe rate (Hz)
-0.059704
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 040000.00
Stop 040300.22
FRT 040130.00
Corr/FF/build
2024:361:053129
2025:041:175921
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	0.136572	0.136636	0.136700</
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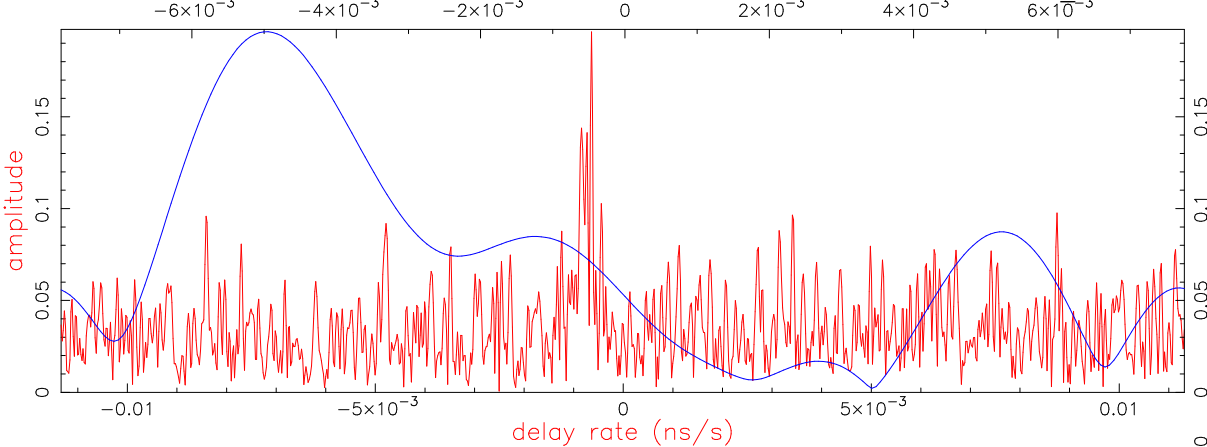
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bL

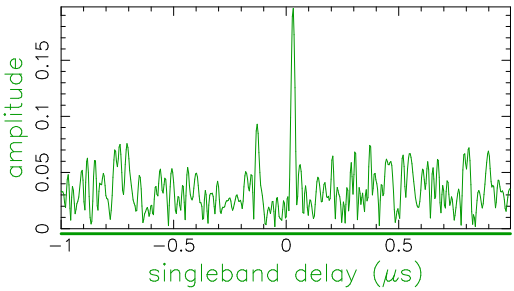
VLBA_BR - JCMT, fgroup W, pol LL

multiband delay (μ s)

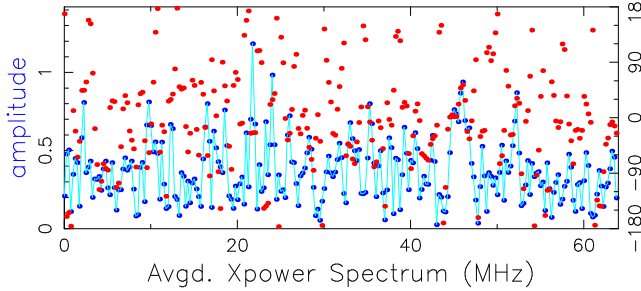


Fringe quality 9

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

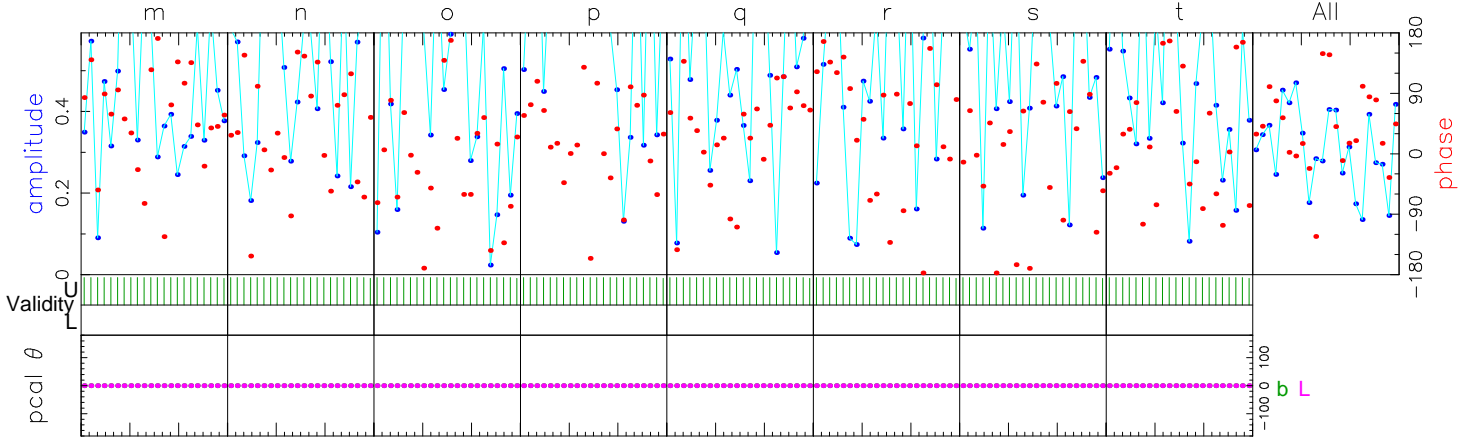


delay rate (ns/s)



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

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



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

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

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

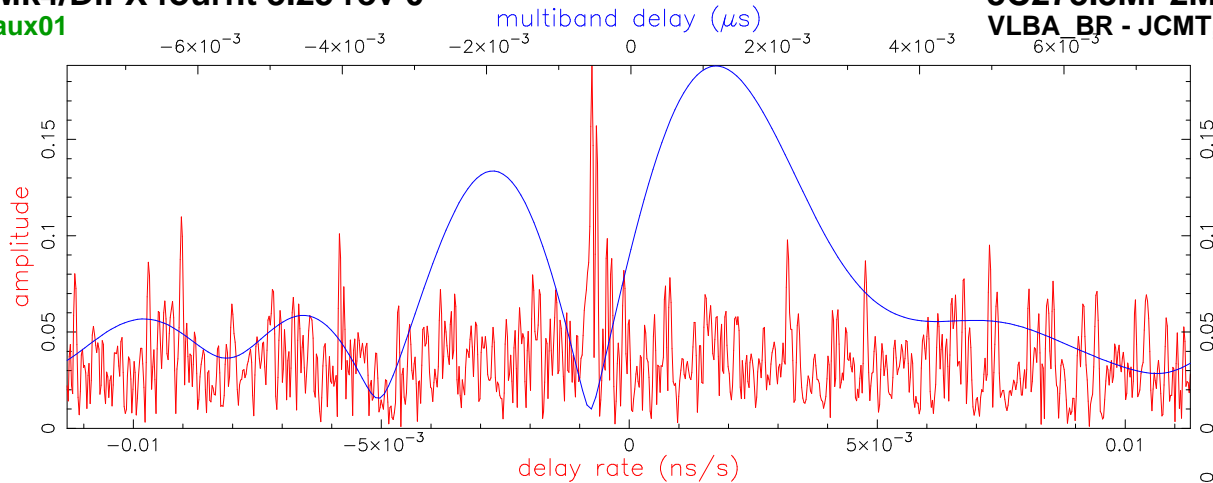
b: az 132.0 el 33.1 pa -29.7 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 4355.669 3505.687 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//bL..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//bL.W.55.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

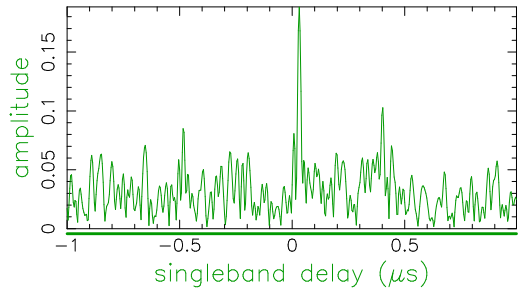
3C273.3MP2MB, No0707, bL

VLBA_BR - JCMT, fgroup W, pol RR

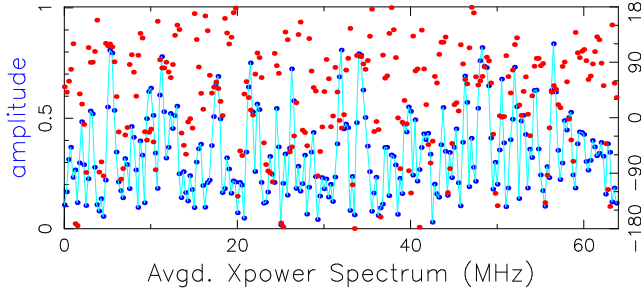


Fringe quality 0

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

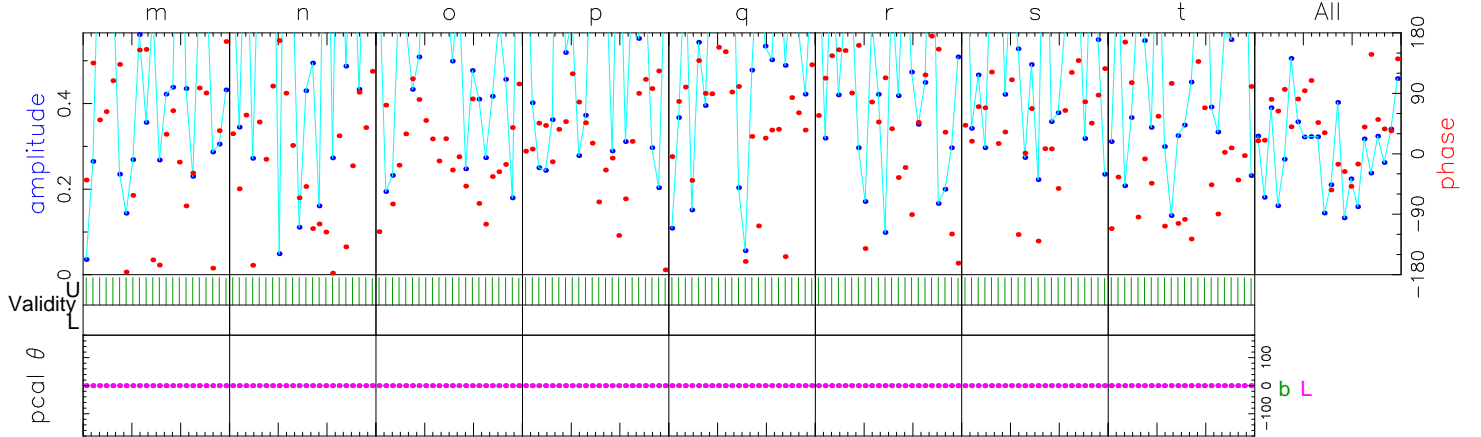


delay rate (ns/s)



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

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	0	0	0	0	0	0	0	0		
L	0	0	0	0	0	0	0	0		
b:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
L	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
L	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR		
Group delay (usec) (SBD)	5.93785347390E+03					5.93782104725E+03			1.17666E-03	+/- 1.6E-04
Sband delay (usec)	5.93785227425E+03					4.8416824E+00			3.12270E-02	+/- 1.2E-03
Phase delay (usec)	5.93782104891E+03					9.1252787E-07			1.66707E-06	+/- 5.4E-07
Delay rate (us/s)	-7.62639381547E-01					-7.62638634021E-01			-7.47525E-07	+/- 5.1E-09
Total phase (deg)			55.2			-3.00185132179E-05			51.7	+/- 16.6
	RMS	Theor.	Amplitude	0.188 +/- 0.027						
ph/seg (deg)	54.6	38.9	Search (1024X32)	0.183						
amp/seg (%)	75.3	68.0	Interp.	0.000						
ph/frq (deg)	47.6	23.5	Inc. seg. avg.	0.235						
amp/frq (%)	42.2	41.0	Inc. frq. avg.	0.220						
b: az 132.0 el 33.1 pa -29.7			L: az 93.6 el 15.4 pa -70.0							
Control file: cf_1234_gmva			Input file: /Exps/c241b/v2/3mm/1234/No0707/bL..3MP2MB							
			Output file: /Exps/c241b/v2/3mm/1234/No0707/bL.W.62.3MP2MB							

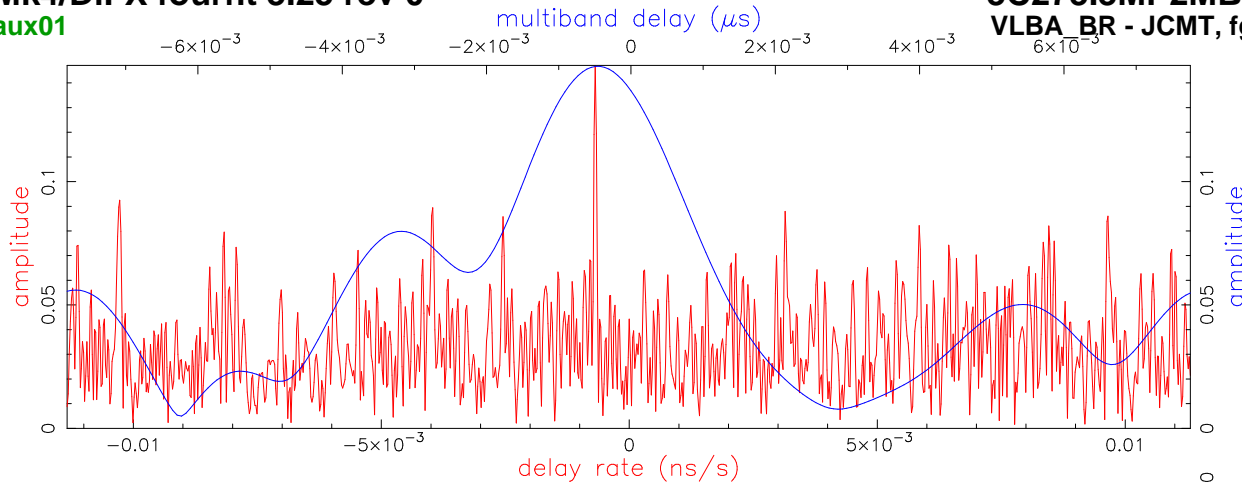
pcd mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s)
 Bits/sample: 2x2 SampCntNorm: enabled
 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite
 sb window (us) -1.000 1.000
 mb window (us) -0.008 0.008
 dr window (ns/s) -0.011 0.011
 ion window (TEC) 0.00 0.00
 simultaneous interpolator

Mk4/DiFX fourfit 3.25 rev 0

aux01

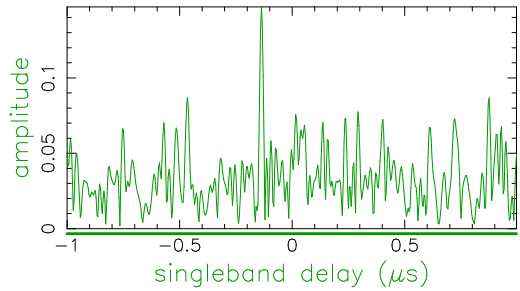
3C273.3MP2MB, No0707, bL

VLBA_BR - JCMT, fgroup W, pol LR

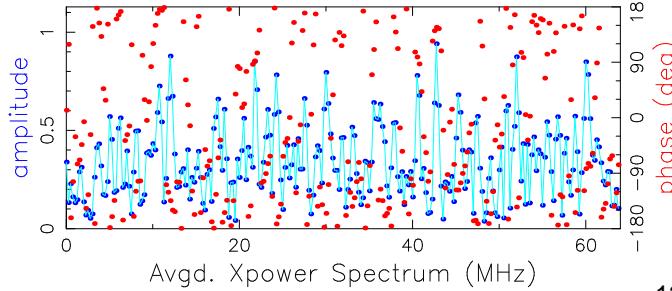


Fringe quality 0

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

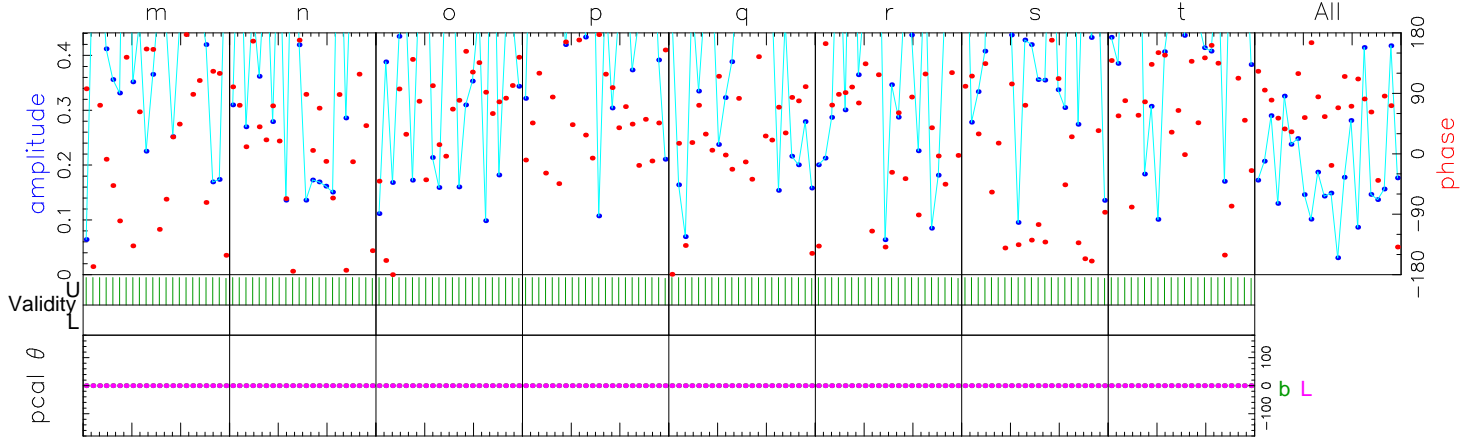


delay rate (ns/s)



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

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



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

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

ph/seg (deg)	53.6	Theor.	Amplitude	0.147 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	74.3	49.9	Search (1024X32)	0.145	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	48.3	30.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	47.5	52.5	Inc. seg. avg.	0.144	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		ion window (TEC)	0.00	0.00
			Inc. frq. avg.	0.151	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

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

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

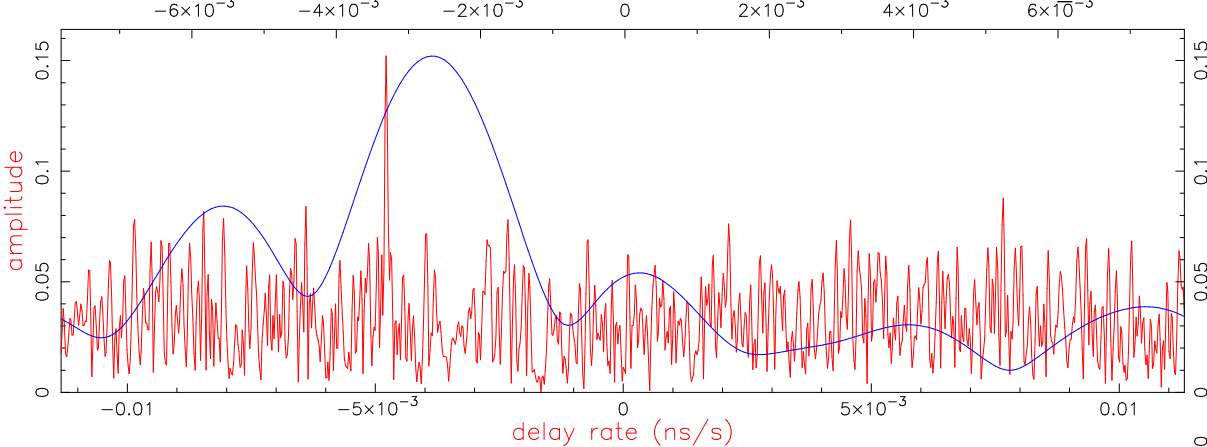
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, bL

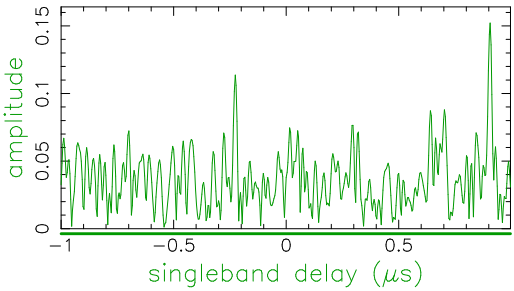
VLBA_BR - JCMT, fgroup W, pol RL

multiband delay (μ s)

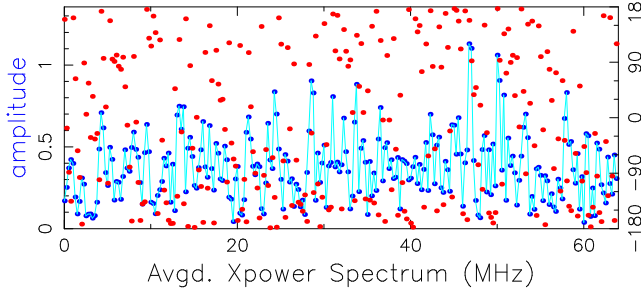


Fringe quality 0

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

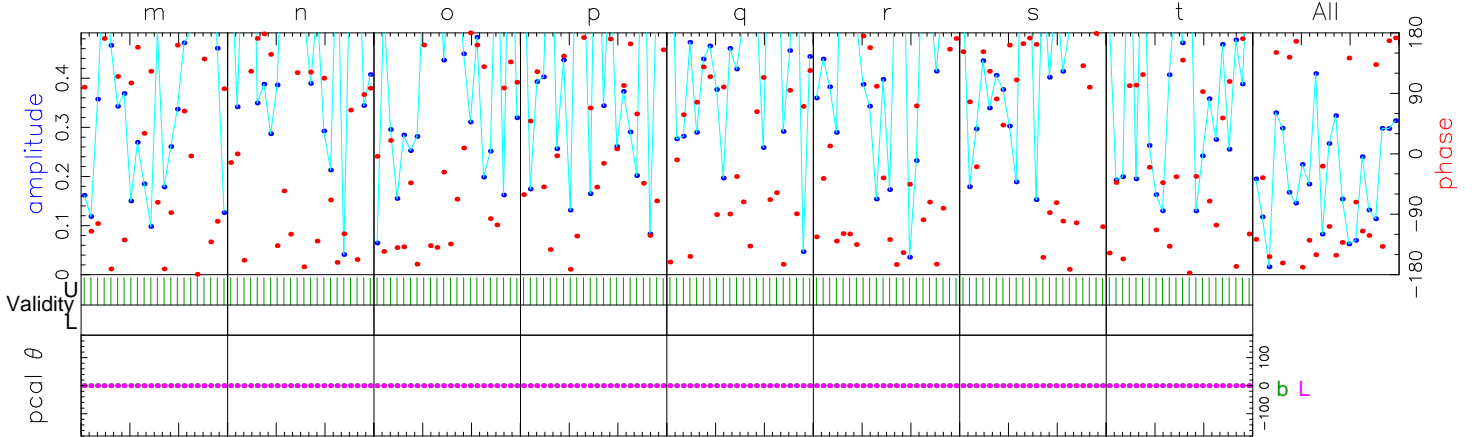


delay rate (ns/s)



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

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



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

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

ph/seg (deg)	55.4	RMS	48.1	Theor.	55.4	Amplitude	0.164 +/- 0.029	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	74.9	Search (1024X32)	0.148	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	31.3	Inc. seg. avg.	0.161	Inc. frq. avg.	0.160	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	41.4	Inc. frq. avg.	0.160	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

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

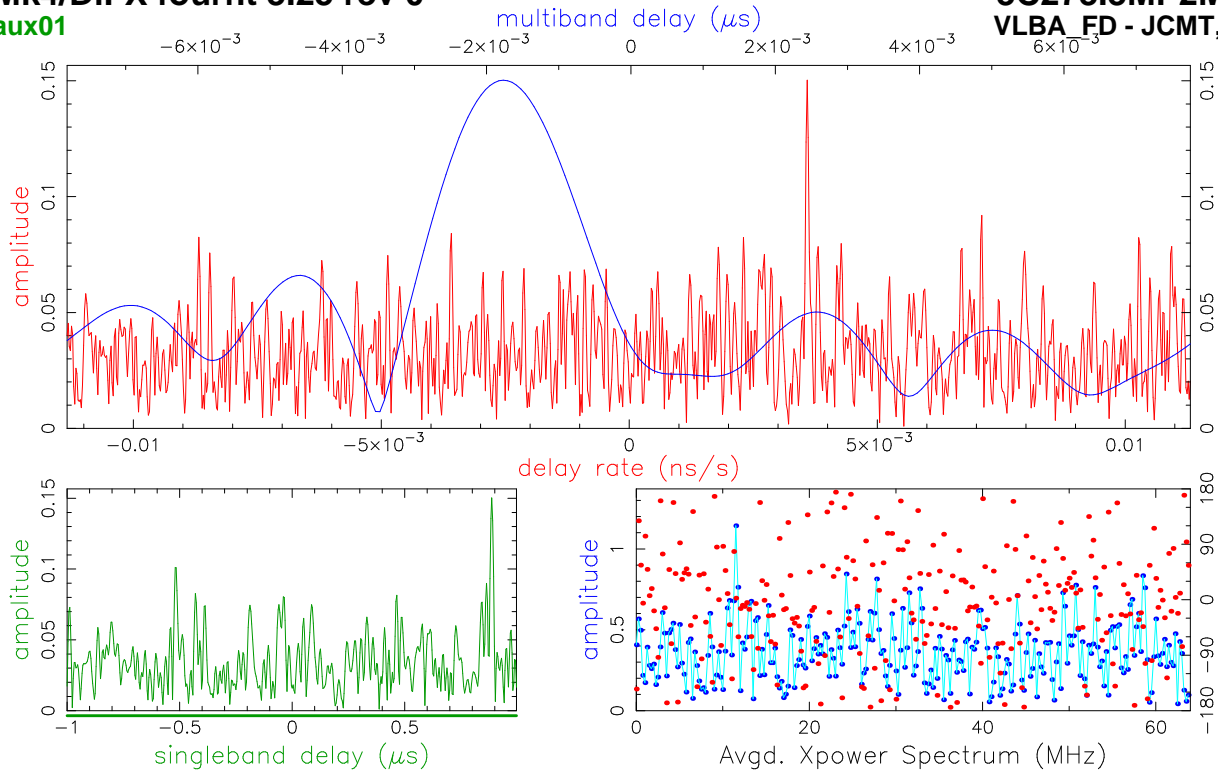
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/bL..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/bL.W.76.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

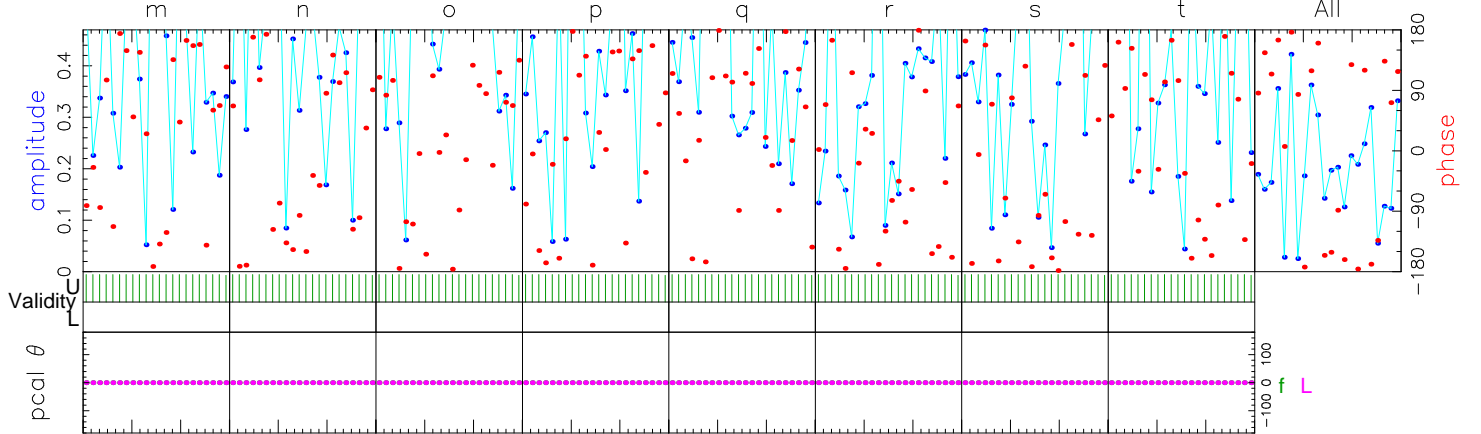
3C273.3MP2MB, No0707, fL

VLBA_FD - JCMT, fgroup W, pol LR



Fringe quality 0
 SNR 5.5
 Int time 179.983
 Amp 0.157
 Phase 155.8
 PFD 9.9e-01
 Delays (us)
 SBD 0.886567
 MBD -0.001770
 Fringe rate (Hz) 0.309270
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175929
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
f	0	0	0	0	0	0	0	0	Phase	155.8
L	0	0	0	0	0	0	0	0	Ampl.	0.2
f:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	484.0
f:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
L	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC phase	
L	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Mani PC	
									PC amp	
									Chan ids	
									Tracks	
									Chan ids	
									Tracks	

Group delay (usec) (SBD) 1.15189729564E+04 Apriori delay (usec) 1.15180841011E+04 Resid mbdelay (usec) -1.76968E-03 +/- 2.0E-04
 Sband delay (usec) 1.15189706683E+04 Apriori clock (usec) 2.7610779E-01 Resid sbdelay (usec) 8.86567E-01 +/- 1.6E-03
 Phase delay (usec) 1.15180841061E+04 Apriori clockrate (us/s) 3.8630687E-07 Resid phdelay (usec) 5.02401E-06 +/- 6.7E-07
 Delay rate (us/s) -8.93802556599E-01 Apriori rate (us/s) -8.93806146918E-01 Resid rate (us/s) 3.59032E-06 +/- 6.4E-09
 Total phase (deg) 323.7 Apriori accel (us/s/s) -6.06024212589E-05 Resid phase (deg) 155.8 +/- 20.8

ph/seg (deg) 58.7 48.7 Search (1024X32) 0.147 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 79.6 85.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 33.7 29.4 Inc. seg. avg. 0.157 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 21.1 51.3 Inc. frq. avg. 0.156 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 f: az 138.7 el 54.1 pa -34.5 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 5091.083 1343.559 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//fL..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fL.W.109.3MP2MB

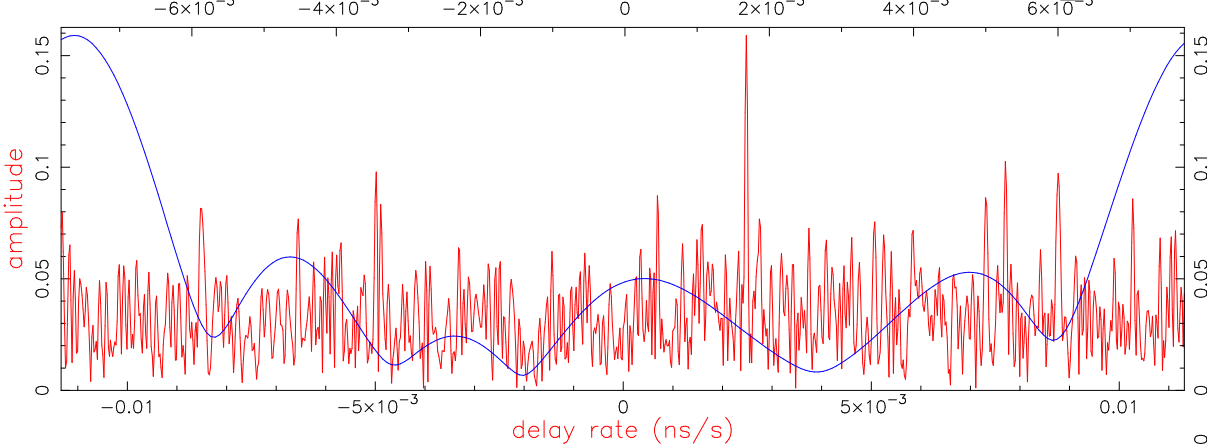
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fL

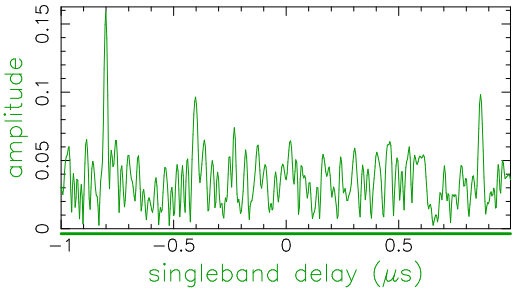
VLBA_FD - JCMT, fgroup W, pol RL

multiband delay (μ s)

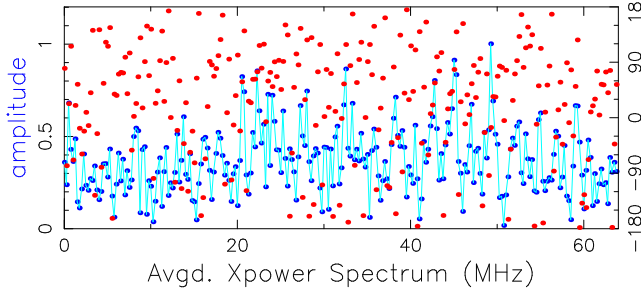


Fringe quality 0

SNR 5.9
 Int time 179.983
 Amp 0.163
 Phase -79.4
 PFD 4.6e-01
 Delays (us)
 SBD -0.801446
 MBD -0.007643
 Fringe rate (Hz)
 0.213100
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

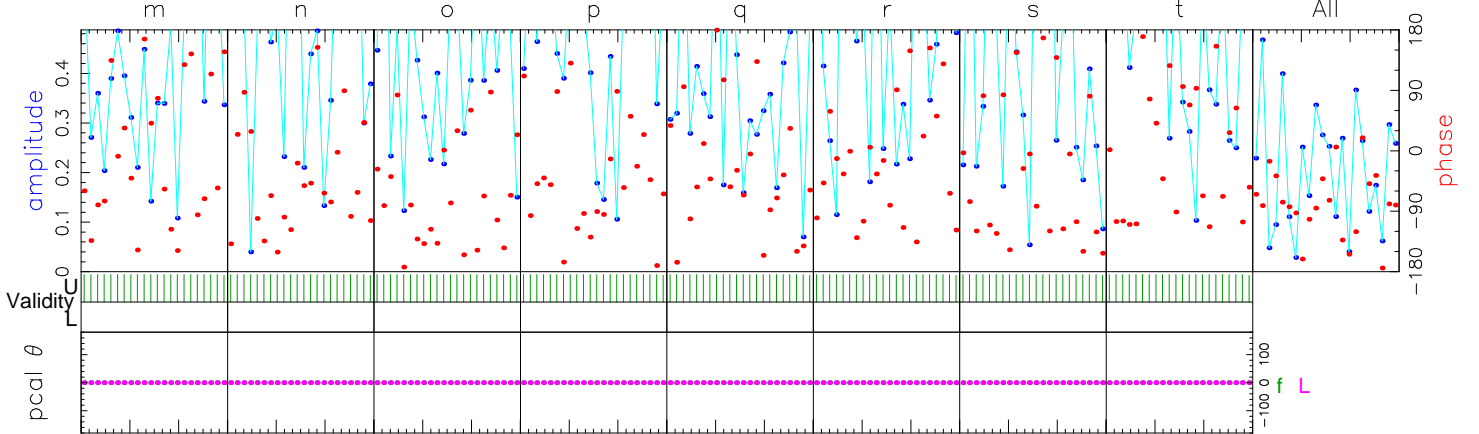


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175931
 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
	-114.6	-79.4	-90.5	-57.0	-60.4	-59.2	-110.5	-73.3	Phase	-79.4
	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	Ampl.	0.2
	241.8	414.7	246.8	405.7	359.3	173.1	50.0	257.9	Sbd box	51.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
f:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
L	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD)	1.15172795829E+04	Apriori delay (usec)	1.15180841011E+04	Resid mbdelay (usec)	-7.64319E-03	+/-	1.9E-04
Sband delay (usec)	1.15172826553E+04	Apriori clock (usec)	2.7610779E-01	Resid sbdelay (usec)	-8.01446E-01	+/-	1.5E-03
Phase delay (usec)	1.15180840985E+04	Apriori clockrate (us/s)	3.8630687E-07	Resid phdelay (usec)	-2.56159E-06	+/-	6.3E-07
Delay rate (us/s)	-8.93803673038E-01	Apriori rate (us/s)	-8.93806146918E-01	Resid rate (us/s)	-2.47388E-06	+/-	6.1E-09
Total phase (deg)	88.5	Apriori accel (us/s/s)	-6.06024212589E-05	Resid phase (deg)	-79.4	+/-	19.6

ph/seg (deg)	RMS 49.5	Theor. 45.9	Amplitude Search (1024X32)	0.163 +/- 0.028	0.155	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	82.2	80.2	Interp.	0.000	0.155	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	24.6	27.7	Inc. seg. avg.	0.162	0.155	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	dr window (ns/s)	-0.011	0.011
amp/frq (%)	37.0	48.3	Inc. frq. avg.	0.155	0.155	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00

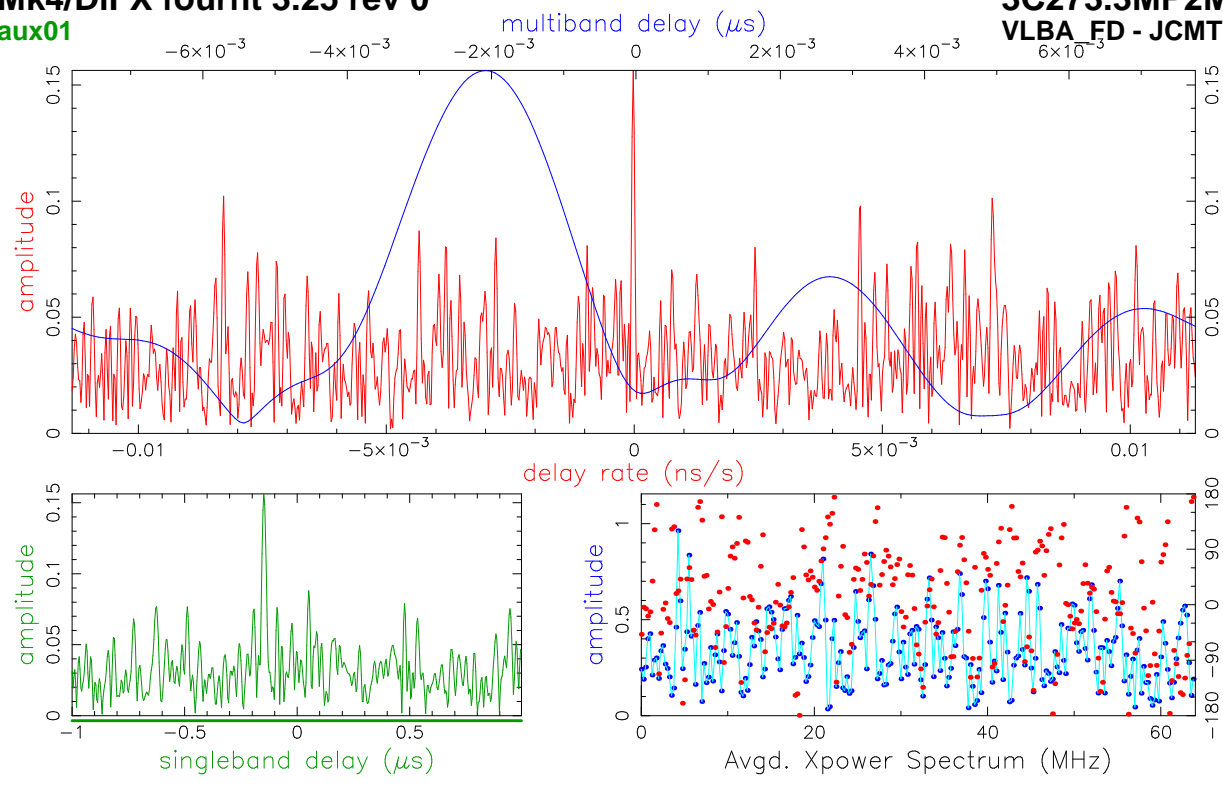
f: az 138.7 el 54.1 pa -34.5 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 5091.083 1343.559 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//fL..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fL.W.118.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, fL

VLBA_FD - JCMT, fgroup W, pol LL

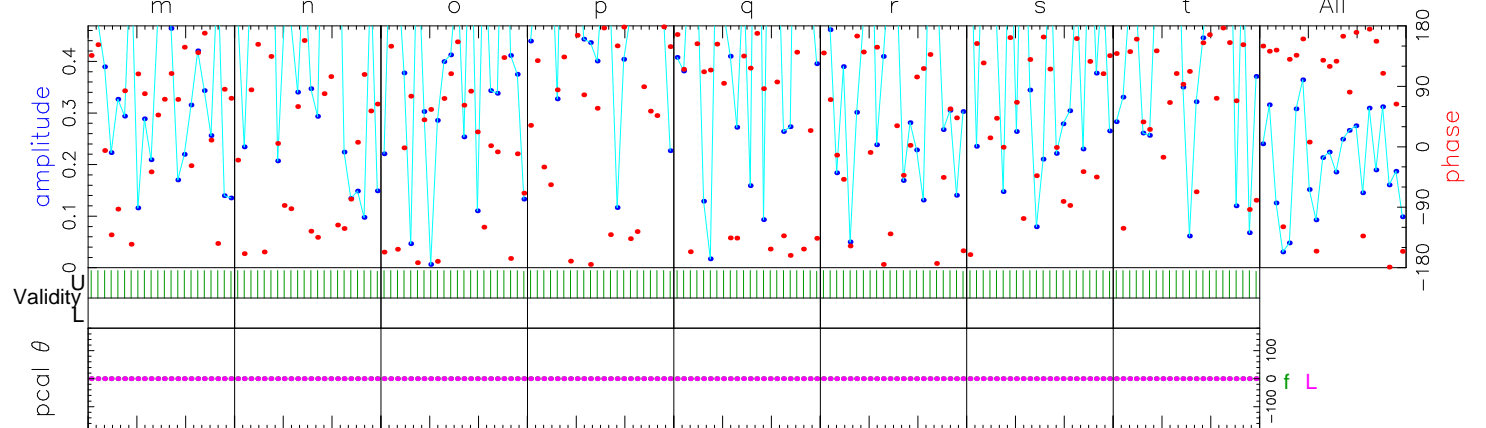


Fringe quality 0

SNR 5.7
 Int time 179.983
 Amp 0.156
 Phase 144.1
 PFD 7.0e-01
 Delays (us)
 SBD -0.148088
 MBD -0.002094
 Fringe rate (Hz)
 -0.002104
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

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

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	119.2	154.2	138.2	143.3	163.8	122.9	140.8	134.5	Phase	144.1	
	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.2	Ampl.	0.1	
	145.2	468.3	446.2	489.8	218.9	130.9	269.9	96.2	Sbd box	219.1	
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used		
f	0	0	0	0	0	0	0	0	PC freqs		
L	0	0	0	0	0	0	0	0	PC freqs		
f:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
f:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC		
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
L	1000	1000	1000	1000	1000	1000	1000	1000			
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids		
L	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks		
									Chan ids		
									Tracks		
Group delay (usec) (SBD)	1.15179413823E+04		Apriori delay (usec)		1.15180841011E+04		Resid mbdelay (usec)		-2.09377E-03	+/- 1.9E-04	
Sband delay (usec)	1.15179360128E+04		Apriori clock (usec)		2.7610779E-01		Resid sbdelay (usec)		-1.48088E-01	+/- 1.5E-03	
Phase delay (usec)	1.15180841057E+04		Apriori clockrate (us/s)		3.8630687E-07		Resid phdelay (usec)		4.64700E-06	+/- 6.4E-07	
Delay rate (us/s)	-8.93806171348E-01		Apriori rate (us/s)		-8.93806146918E-01		Resid rate (us/s)		-2.44296E-08	+/- 6.2E-09	
Total phase (deg)	312.0		Apriori accel (us/s/s)		-6.06024212589E-05		Resid phase (deg)		144.1	+/- 20.0	
	RMS	Theor.	Amplitude	0.156 +/- 0.027		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	51.9	46.9	Search (1024X32)	0.155		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000	
amp/seg (%)	65.1	81.8	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	16.8	28.3	Inc. seg. avg.	0.153		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011 0.011	
amp/frq (%)	51.3	49.3	Inc. frq. avg.	0.144		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
f: az 138.7 el 54.1 pa -34.5	L: az 93.6 el 15.4 pa -70.0		u,v (fr/asec) 5091.083 1343.559						simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/c241b/v2/3mm/1234/No0707//fL..3MP2MB		Output file: /Exps/c241b/v2/3mm/1234/No0707//fL.W.85.3MP2MB								

Mk4/DiFX fourfit 3.25 rev 0

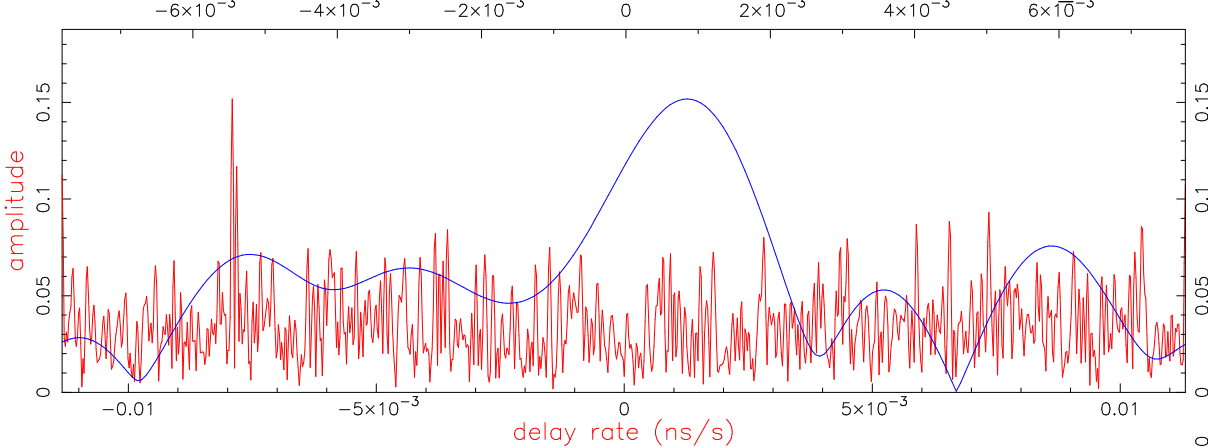
aux01

3C273.3MP2MB, No0707, fL

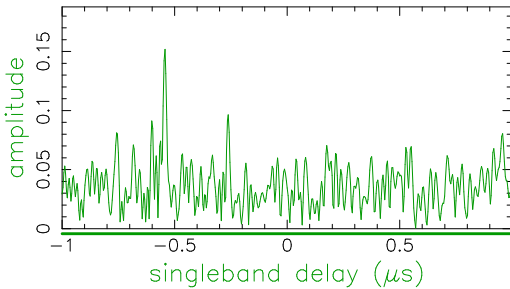
VLBA_FD - JCMT, fgroup W, pol RR

multiband delay (μ s)

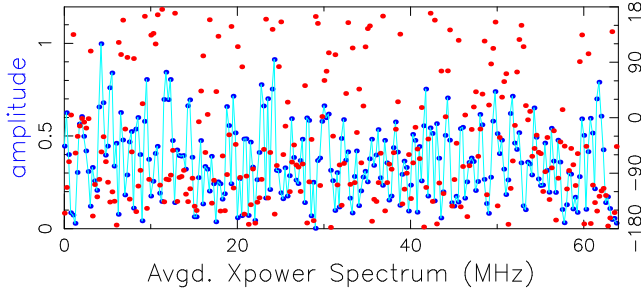
Fringe quality 0



SNR 5.6
 Int time 179.983
 Amp 0.188
 Phase 101.5
 PFD 9.4e-01
 Delays (us)
 SBD -0.543736
 MBD 0.000828
 Fringe rate (Hz)
 -0.681410
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

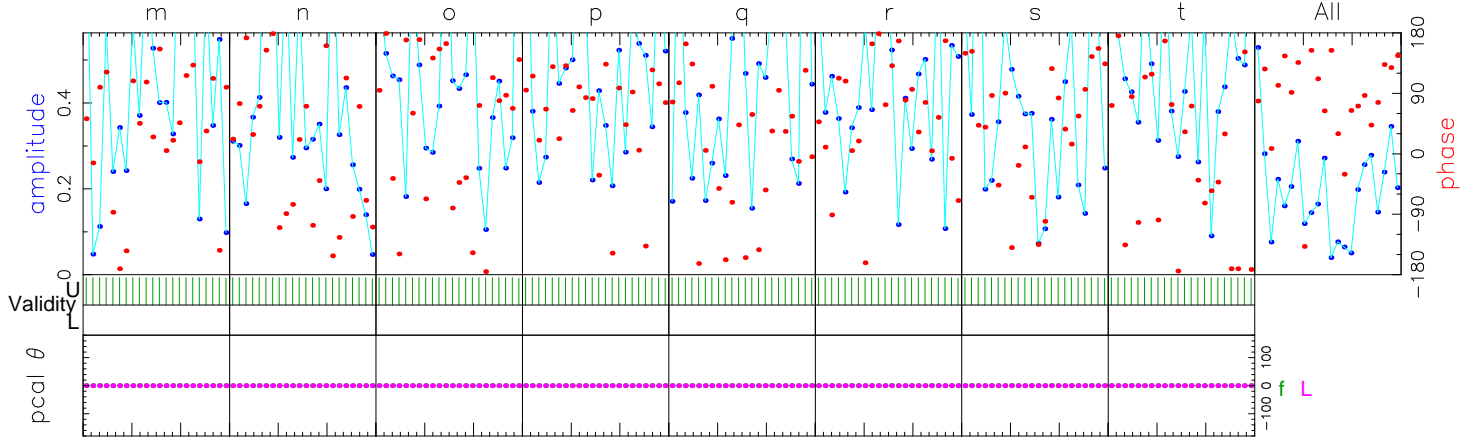


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175927
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	85.9	-168.8	144.9	91.5	82.7	68.6	83.1	152.5	Phase	101.5
	0.3	0.1	0.2	0.4	0.2	0.2	0.2	0.2	Ampl.	0.2
	426.1	303.2	474.0	118.7	17.0	261.2	81.0	111.4	Sbd box	117.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
f:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
L	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	1.15175380543E+04					1.15180841011E+04			Resid mbdelay (usec)	8.28181E-04 +/- 1.9E-04
Sband delay (usec)	1.15175403656E+04					2.7610779E-01			Resid sbdelay (usec)	-5.43736E-01 +/- 1.5E-03
Phase delay (usec)	1.15180841043E+04					3.8630687E-07			Resid phdelay (usec)	3.27181E-06 +/- 6.6E-07
Delay rate (us/s)	-8.93814057416E-01					-8.93806146918E-01			Resid rate (us/s)	-7.91050E-06 +/- 6.4E-09
Total phase (deg)		269.4				-6.06024212589E-05			Resid phase (deg)	101.5 +/- 20.5

ph/seg (deg) 55.4 48.1 Search (1024X32) 0.148 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 79.8 83.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 49.4 29.0 Inc. seg. avg. 0.182 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 51.9 50.6 Inc. frq. avg. 0.197 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 f: az 138.7 el 54.1 pa -34.5 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 5091.083 1343.559 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//fL..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//fL.W.95.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

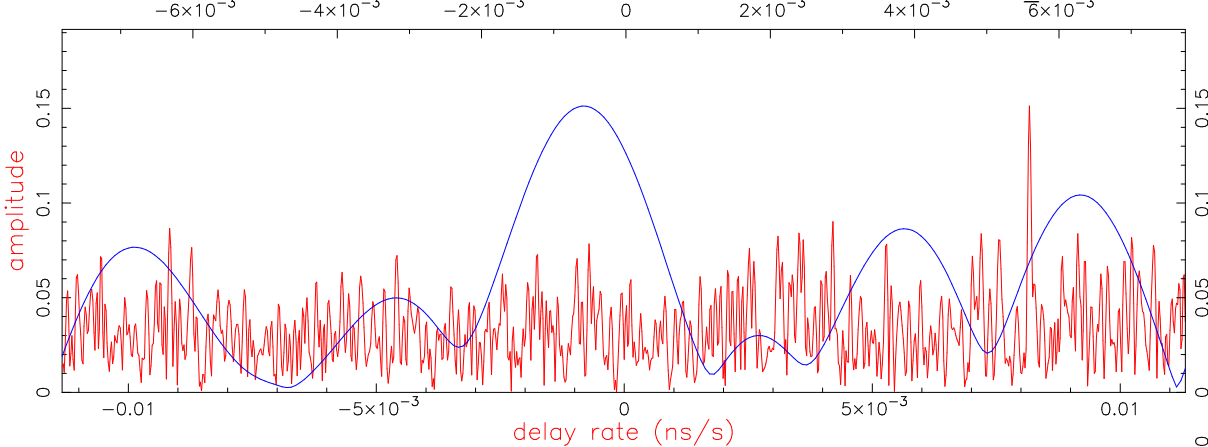
aux01

3C273.3MP2MB, No0707, GL

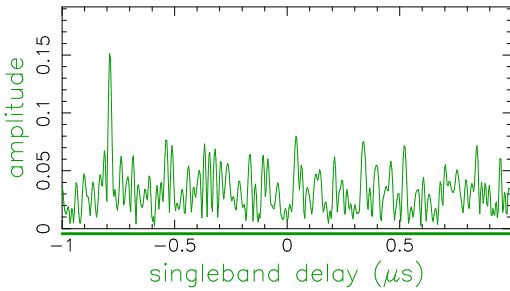
GBT_COLD - JCMT, fgroup W, pol LL

multiband delay (μ s)

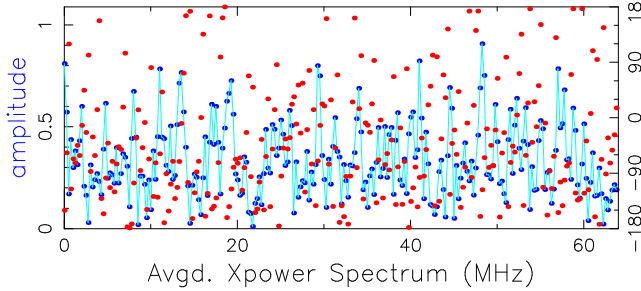
Fringe quality 0



SNR 5.6
 Int time 179.983
 Amp 0.192
 Phase -157.0
 PFD 9.0e-01
 Delays (us)
 SBD -0.787650
 MBD -0.000564
 Fringe rate (Hz)
 0.704330
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

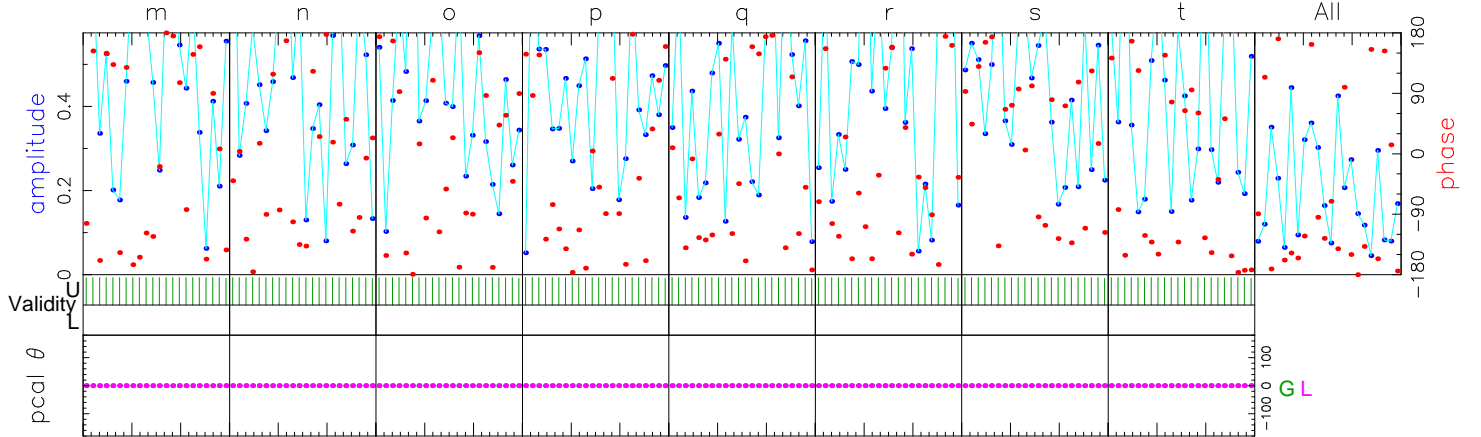


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175931
 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
	-174.9	-82.4	171.5	-164.3	-124.8	-140.5	131.4	-164.2	Phase	-157.0
	0.4	0.2	0.2	0.2	0.2	0.3	0.1	0.3	Ampl.	0.2
	54.1	117.6	48.5	42.6	466.1	56.0	75.7	177.6	Sbd box	55.4
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
G:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
L	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	
									Chan ids	
									Tracks	

Group delay (usec) (SBD)	1.13237225269E+04	Apriori delay (usec)	1.13245043412E+04	Resid mbdelay (usec)	-5.64304E-04	+/-	1.9E-04
Sband delay (usec)	1.13237166910E+04	Apriori clock (usec)	-1.4406131E+01	Resid sbdelay (usec)	-7.87650E-01	+/-	1.5E-03
Phase delay (usec)	1.13245043362E+04	Apriori clockrate (us/s)	4.0647000E-07	Resid phdelay (usec)	-5.06178E-06	+/-	6.6E-07
Delay rate (us/s)	-1.43896488112E+00	Apriori rate (us/s)	-1.43897305770E+00	Resid rate (us/s)	8.17657E-06	+/-	6.3E-09
Total phase (deg)	186.6	Apriori accel (us/s/s)	-5.92290904826E-05	Resid phase (deg)	-157.0	+/-	20.4

ph/seg (deg)	58.4	Theor.	47.8	Amplitude	0.192 +/- 0.034	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	86.0		83.4	Search (1024X32)	0.146	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	47.3		28.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	47.9		50.3	Inc. seg. avg.	0.188	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.200	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

G: az 182.2 el 53.5 pa 2.1 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 8216.007 2336.679 simultaneous interpolator

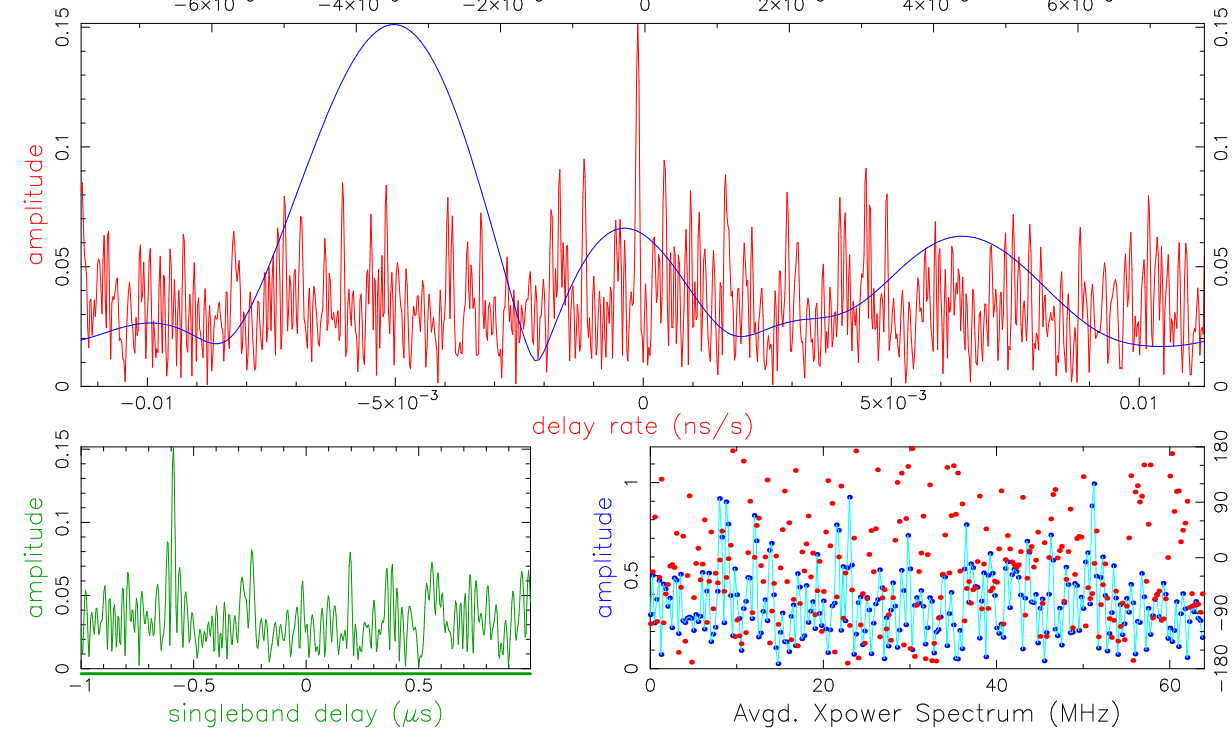
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//GL...3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//GL.W.119.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

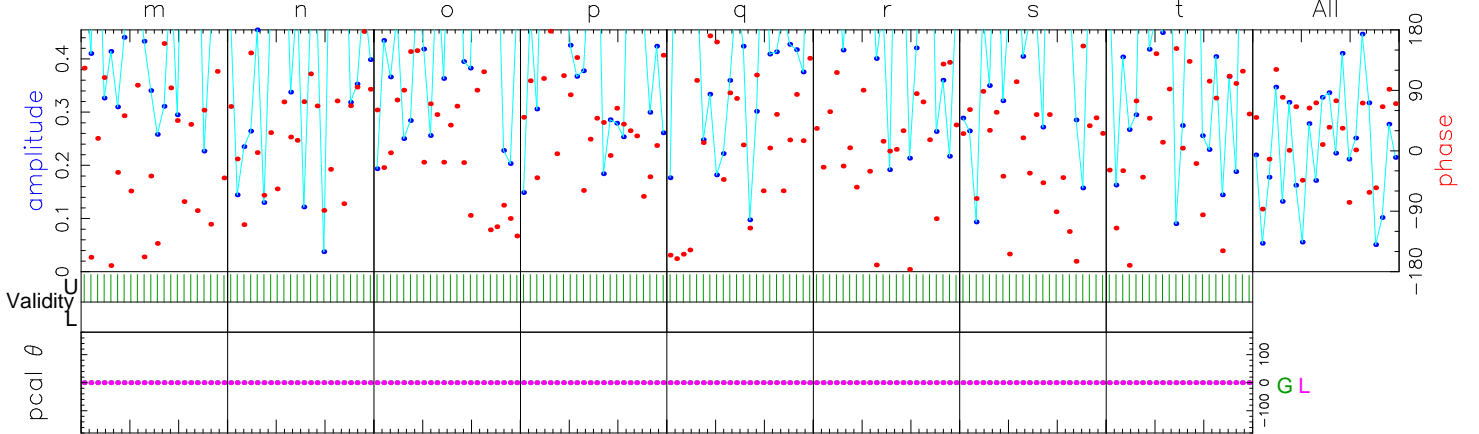
3C273.3MP2MB, No0707, GL

GBT_COLD - JCMT, fgroup W, pol RR



Fringe quality 0
 SNR 5.6
 Int time 179.983
 Amp 0.152
 Phase 41.1
 PFD 9.6e-01
 Delays (us)
 SBD -0.590524
 MBD -0.003492
 Fringe rate (Hz)
 -0.008760
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175934
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All		
	-25.0	41.5	55.0	45.4	103.9	28.2	27.5	56.9	Phase	41.1		
	0.0	0.2	0.1	0.2	0.1	0.3	0.2	0.2	Ampl.	0.1		
	483.8	241.5	355.5	220.1	216.8	106.1	116.3	307.3	Sbd box	105.8		
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used			
G	0	0	0	0	0	0	0	0	PC freqs			
L	0	0	0	0	0	0	0	0	PC freqs			
G:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase			
G:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC			
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp			
L	1000	1000	1000	1000	1000	1000	1000	1000				
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids			
L	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks			
									Tracks			
Group delay (usec) (SBD)	1.13239070996E+04		Apriori delay (usec)		1.13245043412E+04		Resid mbdelay (usec)		-3.49159E-03	+/- 2.0E-04		
Sband delay (usec)	1.13239138172E+04		Apriori clock (usec)		-1.4406131E+01		Resid sbdelay (usec)		-5.90524E-01	+/- 1.5E-03		
Phase delay (usec)	1.13245043426E+04		Apriori clockrate (us/s)		4.0647000E-07		Resid phdelay (usec)		1.32630E-06	+/- 6.6E-07		
Delay rate (us/s)	-1.43897315939E+00		Apriori rate (us/s)		-1.43897305770E+00		Resid rate (us/s)		-1.01695E-07	+/- 6.4E-09		
Total phase (deg)	24.7		Apriori accel (us/s/s)		-5.92290904826E-05		Resid phase (deg)		41.1	+/- 20.6		
ph/seg (deg)	RMS 60.5	Theor. 48.3	Amplitude Search (1024X32)		0.152 +/- 0.027		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
amp/seg (%)	89.6	84.3	Interp.		0.000		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
ph/frq (deg)	39.0	29.1	Inc. seg. avg.		0.171		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	53.4	50.9	Inc. frq. avg.		0.143		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
G: az 182.2 el 53.5 pa 2.1	L: az 93.6 el 15.4 pa -70.0		u,v (fr/asec)		8216.007 2336.679				simultaneous interpolator			
Control file: cf_1234_gmva	Input file: /Exps/c241b/v2/3mm/1234/No0707//GL...3MP2MB		Output file: /Exps/c241b/v2/3mm/1234/No0707//GL.W.129.3MP2MB									

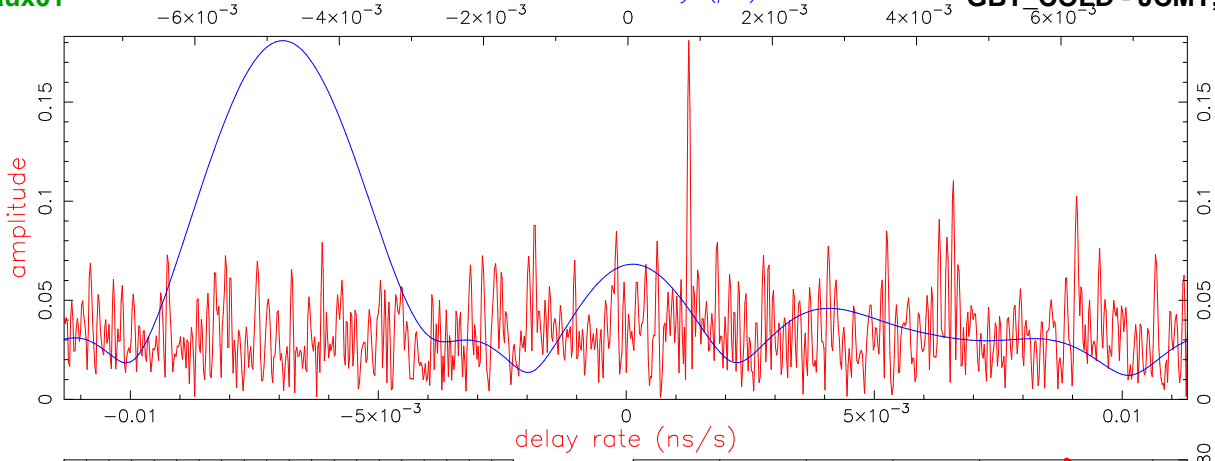
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, GL

GBT_COLD - JCMT, fgroup W, pol LR

multiband delay (μ s)

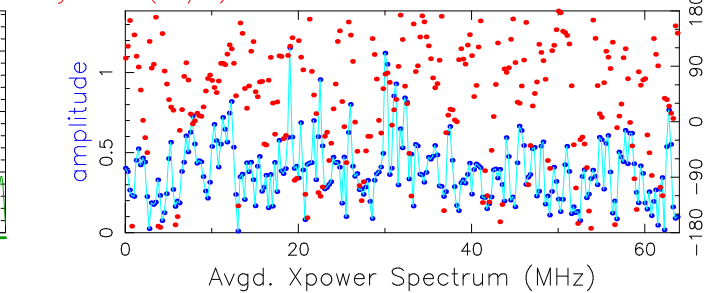
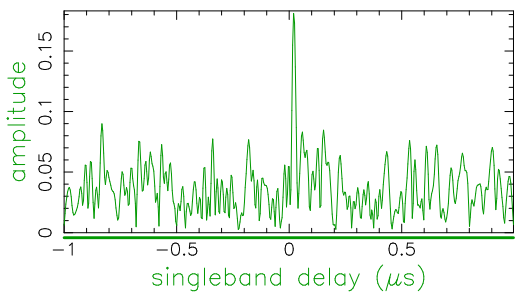


Fringe quality 0

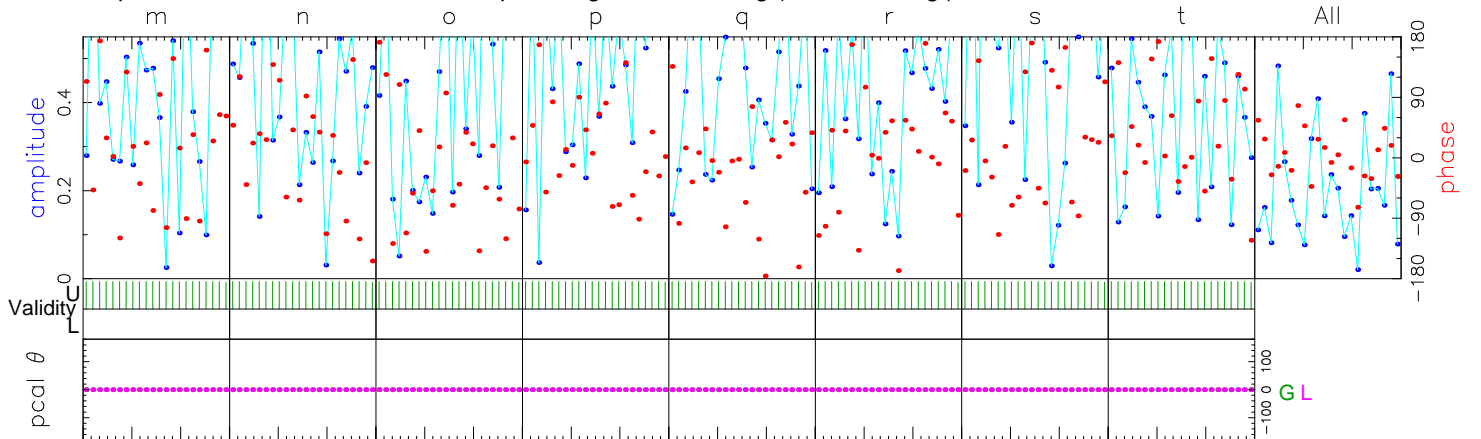
SNR 6.7
 Int time 179.983
 Amp 0.183
 Phase 2.8
 PFD 3.3e-03
 Delays (us)
 SBD 0.020547
 MBD -0.004787
 Fringe rate (Hz) 0.109207
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175937
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

delay rate (ns/s)



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
	15.7	22.6	-21.3	-0.2	-13.9	24.5	-15.3	31.0	Phase	2.8
	0.1	0.2	0.1	0.3	0.2	0.1	0.3	0.2	Ampl.	0.2
	270.3	86.8	8.1	175.8	262.4	138.4	261.8	297.2	Sbd box	262.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
G:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
L	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	

Group delay (usec) (SBD)	1.13245308046E+04	Apriori delay (usec)	1.13245043412E+04	Resid mbdelay (usec)	-4.78664E-03	+/-	1.6E-04
Sband delay (usec)	1.13245248885E+04	Apriori clock (usec)	-1.4406131E+01	Resid sbdelay (usec)	2.05473E-02	+/-	1.3E-03
Phase delay (usec)	1.13245043413E+04	Apriori clockrate (us/s)	4.0647000E-07	Resid phdelay (usec)	9.03918E-08	+/-	5.5E-07
Delay rate (us/s)	-1.43897178991E+00	Apriori rate (us/s)	-1.43897305770E+00	Resid rate (us/s)	1.26778E-06	+/-	5.3E-09
Total phase (deg)	346.4	Apriori accel (us/s/s)	-5.92290904826E-05	Resid phase (deg)	2.8	+/-	17.1

ph/seg (deg) 36.6 40.2 Search (1024X32) 0.178 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.0 70.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 22.4 24.2 Inc. seg. avg. 0.167 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 32.6 42.3 Inc. frq. avg. 0.176 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 G: az 182.2 el 53.5 pa 2.1 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 8216.007 2336.679 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//GL...3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//GL.W.142.3MP2MB

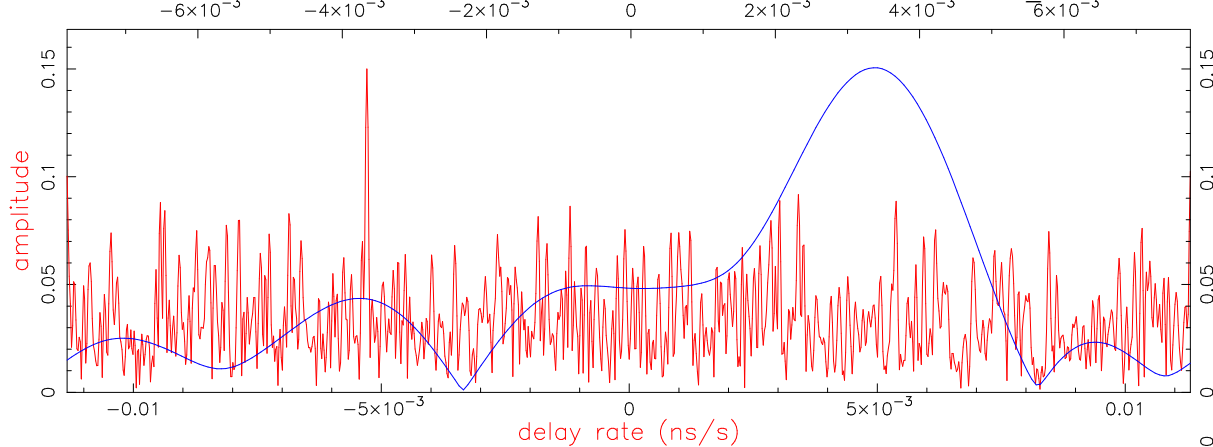
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, GL

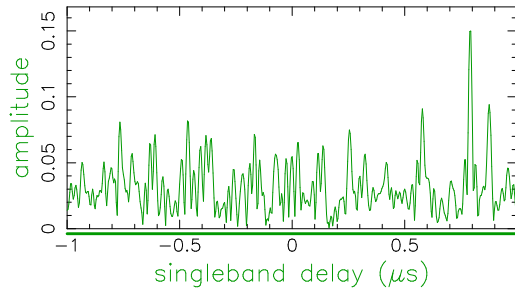
GBT_COLD - JCMT, fgroup W, pol RL

multiband delay (μs)

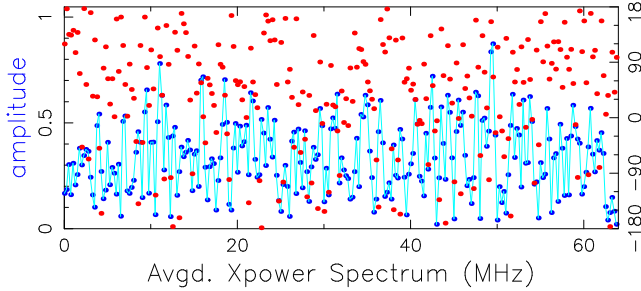


Fringe quality 0

SNR 5.6
 Int time 179.983
 Amp 0.168
 Phase 155.6
 PFD 8.8e-01
 Delays (us)
 SBD 0.791049
 MBD 0.003265
 Fringe rate (Hz)
 -0.455850
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

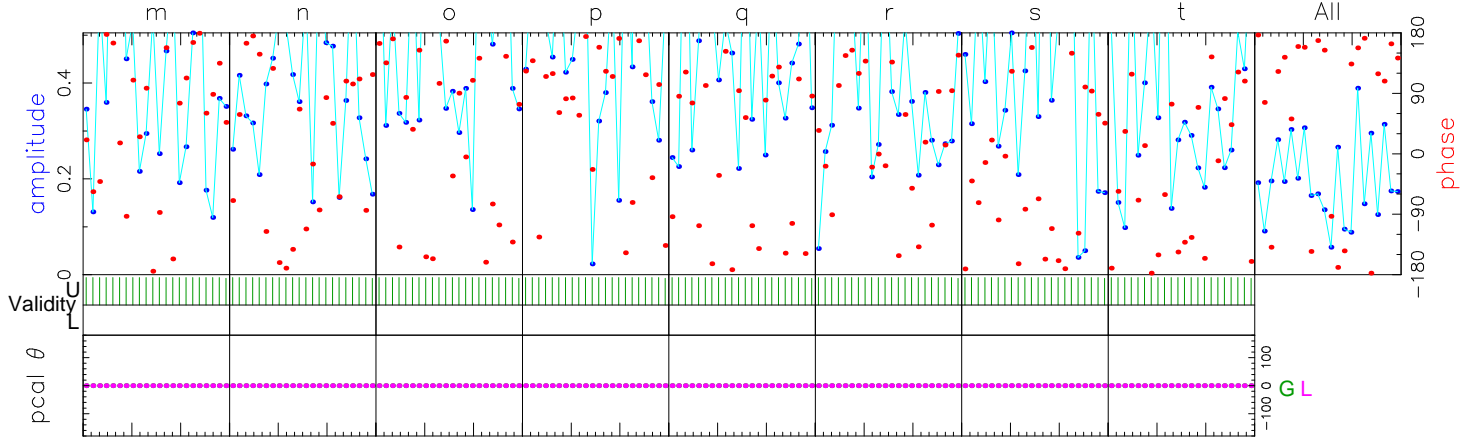


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175940
 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	144.6	159.4	171.2	142.2	147.5	102.7	-165.0	177.9	Phase	155.6
G	0.1	0.1	0.3	0.3	0.2	0.1	0.2	0.1	Ampl.	0.2
L	27.9	205.9	123.0	460.2	378.3	472.4	215.7	137.8	Sbd box	459.5
G:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
G:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
L	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
L	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Chan ids	
									Tracks	

Group delay (usec) (SBD)	1.13252888562E+04	Apriori delay (usec)	1.13245043412E+04	Resid mbdelay (usec)	3.26498E-03	+/-	1.9E-04
Sband delay (usec)	1.13252953902E+04	Apriori clock (usec)	-1.4406131E+01	Resid sbdelay (usec)	7.91049E-01	+/-	1.5E-03
Phase delay (usec)	1.13245043463E+04	Apriori clockrate (us/s)	4.0647000E-07	Resid phdelay (usec)	5.01691E-06	+/-	6.6E-07
Delay rate (us/s)	-1.43897834967E+00	Apriori rate (us/s)	-1.43897305770E+00	Resid rate (us/s)	-5.29197E-06	+/-	6.3E-09
Total phase (deg)	139.2	Apriori accel (us/s/s)	-5.92290904826E-05	Resid phase (deg)	155.6	+/-	20.3

ph/seg (deg) 47.4 47.7 Search (1024X32) 0.149 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 63.1 83.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 30.2 28.8 Inc. seg. avg. 0.161 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 42.5 50.2 Inc. frq. avg. 0.159 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
 G: az 182.2 el 53.5 pa 2.1 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 8216.007 2336.679 simultaneous interpolator

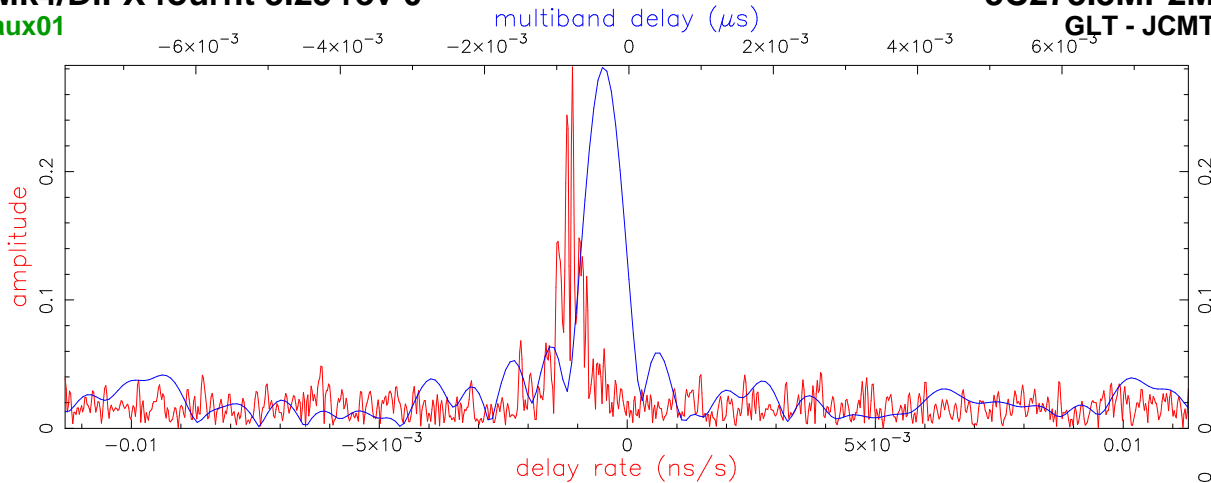
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//GL...3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//GL.W.149.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

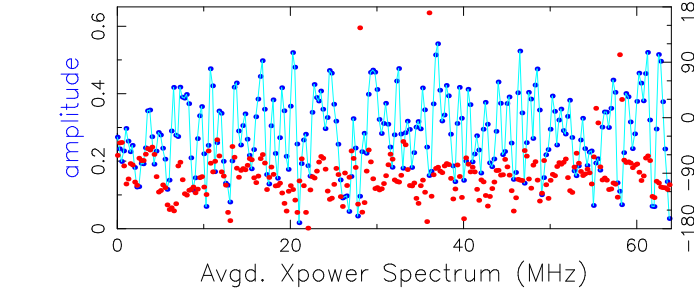
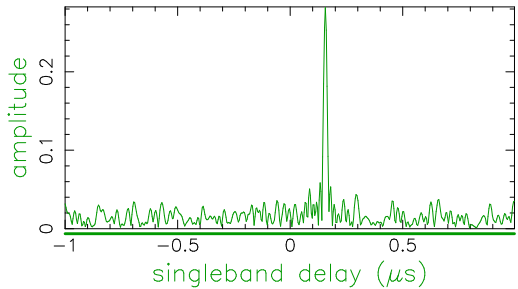
aux01

3C273.3MP2MB, No0707, gL

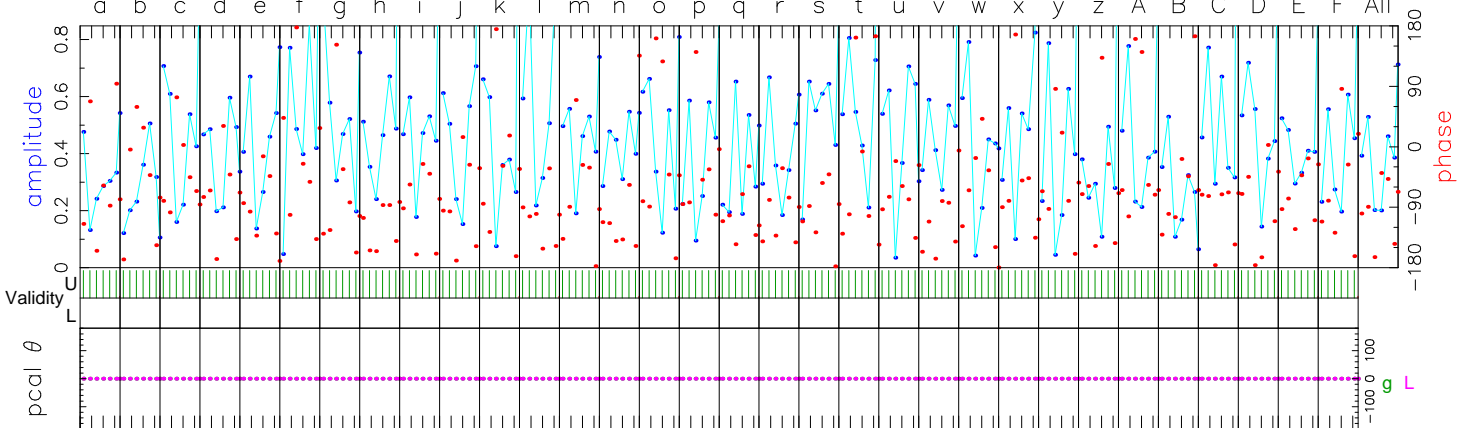
GLT - JCMT, fgroup W, pol LL



Fringe quality 7
 Error code G
 SNR 20.7
 Int time 179.993
 Amp 0.283
 Phase -92.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.156134
 MBD -0.000350
 Fringe rate (Hz)
 -0.096566
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175945
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"



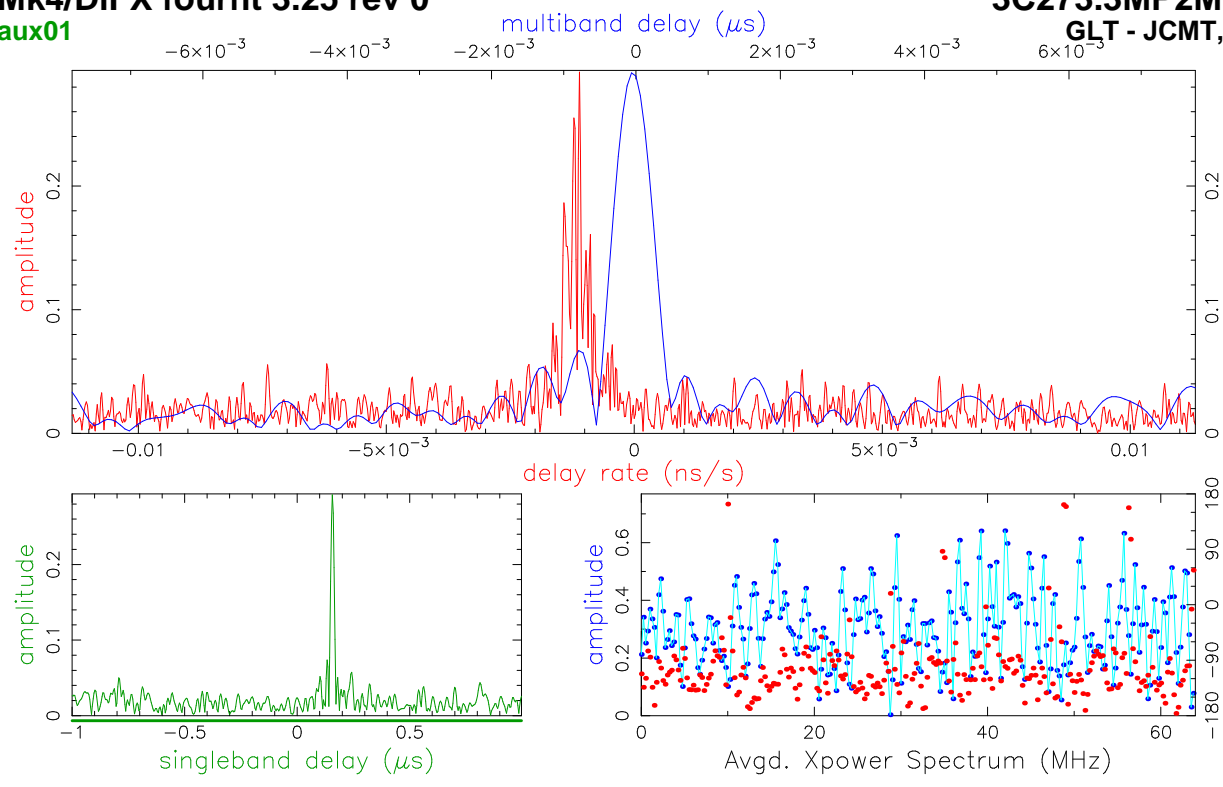
Amp. and Phase vs. time for each freq., 7 segs, 58 APs / seg (29.70 sec / seg.), time ticks 60 sec



85244.0	85308.0	85372.0	85436.0	85500.0	85564.0	85628.0	85692.0	85756.0	85820.0	85884.0	85948.0	86012.0	86076.0	86140.0	86204.0	86268.0	86332.0	86396.0	86460.0	86524.0	86588.0	86652.0	86716.0	86780.0	86844.0	86908.0	86972.0	87036.0	87100.0	87164.0	87228.0	Frq (MHz)	All				
-108.2	-16.8	-66.4	-75.5	-87.8	-88.5	-115.3	-112.8	-72.0	-96.6	-83.4	-109.3	-82.4	-116.8	-91.3	-69.7	-102.6	-104.8	-88.8	-140.6	-88.6	-120.2	-82.0	-88.3	-89.2	-80.3	-89.6	-100.6	-85.0	-79.7	-76.4	-88.6	Phase	-92.8				
0.1	0.1	0.4	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.2	0.5	0.2	0.3	0.3	0.2	0.3	0.4	0.3	0.4	0.4	0.3	0.4	0.3	0.4	0.3	0.2	0.3	0.2	0.4	0.3	0.3	0.2	Ampl	0.3			
426.9	79.6	297.3	320.3	297.1	297.2	297.4	296.8	296.5	296.4	108.7	296.6	440.5	297.7	79.8	296.7	234.8	297.5	296.0	298.1	296.7	296.3	297.8	296.5	296.8	56.0	296.7	197.9	297.3	298.0	297.9	460.6	Std box	297.0				
UL	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	352/0	352/0	352/0	APs used				
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	0	PC freqs				
L	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 freqs			
g-L	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	0.0	PC phase			
g-L	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	0.0	Manl PC			
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	PC amp		
L	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	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	W20UL	W21UL	W22UL	W23UL	W24UL	W25UL	W26UL	W27UL	W28UL	W29UL	W30UL	W31UL	Chan ids				
L	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	W20UL	W21UL	W22UL	W23UL	W24UL	W25UL	W26UL	W27UL	W28UL	W29UL	W30UL	W31UL	Chan ids				

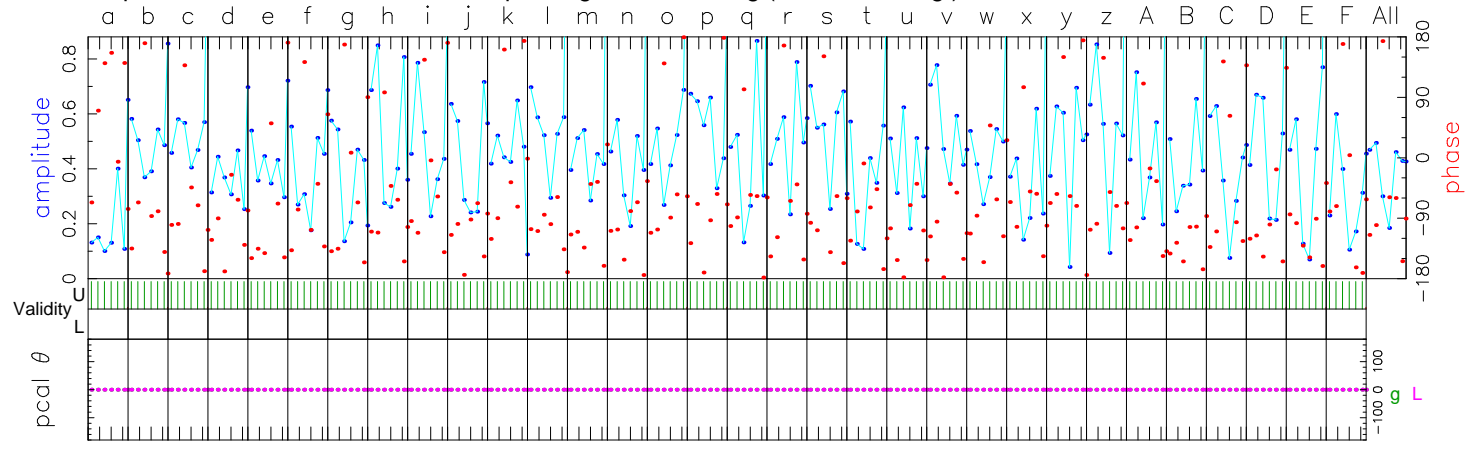
Group delay (usec) (SBD)	-2.40789628599E+02	Apriori delay (usec)	-2.40945528825E+02	Resid mbdelay (usec)	-3.49774E-04	+/-	1.3E-05
Sband delay (usec)	-2.40789394575E+02	Apriori clock (usec)	5.5660057E-01	Resid sbdelay (usec)	1.56134E-01	+/-	4.2E-04
Phase delay (usec)	-2.40945531818E+02	Apriori clockrate (us/s)	1.1204089E-06	Resid phdelay (usec)	-2.99279E-06	+/-	1.8E-07
Delay rate (us/s)	-1.48376048099E+00	Apriori rate (us/s)	-1.48375935995E+00	Resid rate (us/s)	-1.12104E-06	+/-	1.7E-09
Total phase (deg)		Apriori accel (us/s/s)	3.67667304498E-06	Resid phase (deg)	-92.8	+/-	5.5

ph/seg (deg) RMS Theor. Amplitude 0.283 +/- 0.014 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 45.9 7.3 Search (1024X128) 0.270 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 54.1 12.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 21.8 15.7 Inc. seg. avg. 0.364 Data rate(MSamp/s): 128 MBpts 128 Amb 0.016 us dr window (ns/s) -0.011 0.011
 g: az 192.9 el 15.1 pa 3.0 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 8505.687 5617.036 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//gL...3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//gL.W.178.3MP2MB



Fringe quality 7
Error code G
SNR 21.4
Int time 179.994
Amp 0.293
Phase -111.2
PFD 0.0e+00
Delays (us)
SBD 0.156580
MBD -0.000043
Fringe rate (Hz)
-0.096624
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 040000.00
Stop 040300.22
FRT 040130.00
Corr/FF/build
2024:361:053129
2025:041:175952
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



85244.0	85308.0	85372.0	85436.0	85500.0	85564.0	85628.0	85692.0	85756.0	85820.0	85884.0	85948.0	86012.0	86076.0	86140.0	86204.0	86268.0	86332.0	86396.0	86460.0	86524.0	86588.0	86652.0	86716.0	86780.0	86844.0	86908.0	86972.0	87036.0	87100.0	87164.0	87228.0	Freq (MHz)	All		
29.2	-113.2	-114.9	-96.9	-132.3	-113.1	-126.3	-114.1	-116.5	-119.0	-110.1	-102.2	-103.4	-109.3	-117.4	-114.1	-82.6	-119.9	-122.7	-104.8	-115.4	-104.3	-93.3	-78.0	-104.0	-104.9	-86.1	-128.7	-130.2	-128.6	-112.4	-121.9	Phase	-111.2		
0.0	0.4	0.3	0.3	0.2	0.2	0.3	0.4	0.3	0.4	0.3	0.5	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.2	0.4	0.2	0.4	0.3	0.4	0.2	Ampl	0.3	
502.4	296.5	297.9	379.9	191.1	131.9	298.2	296.7	297.1	297.5	297.0	296.7	296.6	296.5	297.4	296.4	297.1	297.7	297.4	508.4	296.4	296.8	296.8	461.2	374.2	296.8	297.9	297.1	297.7	297.4	297.1	341.5	Std box	297.1		
UL	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	352/0	352/0	APs used			
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			
L	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			
g:L	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			
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	ManI PC		
L	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	
g	W00UR	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	W31UR	Chan ids		
L	W00UR	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	W31UR	Chan ids		

Group delay (usec) (SBD) -2.40789321716E+02 Apriori delay (usec) -2.40945528825E+02 Resid mbdelay (usec) -4.28915E-05 +/- 1.3E-05
 Sband delay (usec) -2.40788948825E+02 Apriori clock (usec) 5.5660057E-01 Resid sbdelay (usec) 1.56580E-01 +/- 4.0E-04
 Phase delay (usec) -2.40945532410E+02 Apriori clockrate (us/s) 1.1204089E-06 Resid phdelay (usec) -3.58510E-06 +/- 1.7E-07
 Delay rate (us/s) -1.48376048166E+00 Apriori rate (us/s) -1.48375935995E+00 Resid rate (us/s) -1.12171E-06 +/- 1.7E-09
 Total phase (deg) -58.2 Apriori accel (us/s/s) 3.67667304498E-06 Resid phase (deg) -111.2 +/- 5.3

RMS Theor. Amplitude 0.293 +/- 0.014
 ph/seg (deg) 46.4 7.1 Search (1024X128) 0.276 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 50.5 12.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 29.0 15.1 Inc. seg. avg. 0.389 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 28.8 26.4 Inc. frq. avg. 0.293 Data rate(MSamp/s): 128 MBpts 128 Amb 0.016 us dr window (ns/s) -0.011 0.011
 g: az 192.9 el 15.1 pa 3.0 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 8505.687 5617.036 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//gL...3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//gL.W.208.3MP2MB

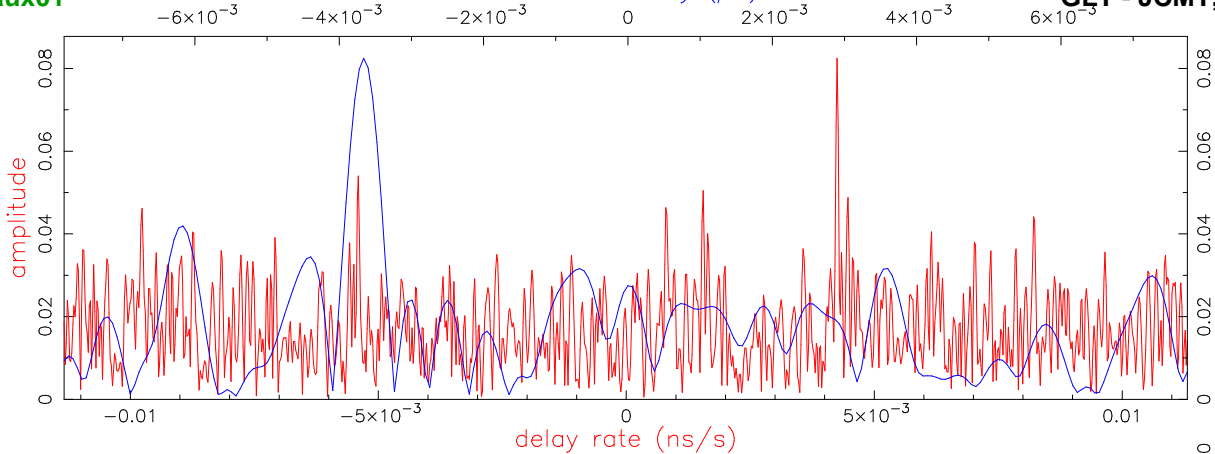
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, gL

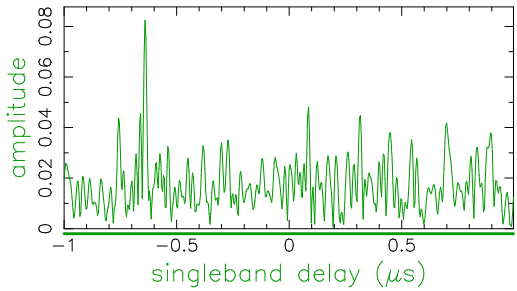
GLT - JCMT, fgroup W, pol LR

multiband delay (μ s)

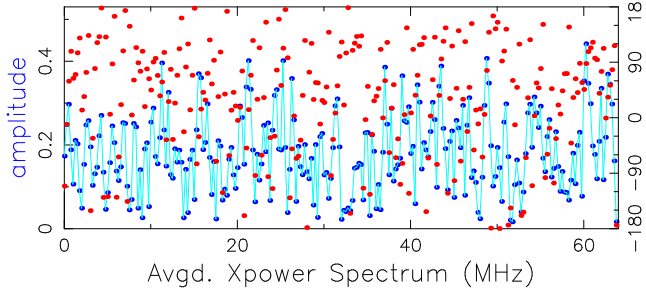


Fringe quality 0

SNR 6.1
Int time 179.993
Amp 0.088
Phase -69.2
PFD 5.0e-01
Delays (us)
SBD -0.640072
MBD -0.003658
Fringe rate (Hz)
0.370562
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

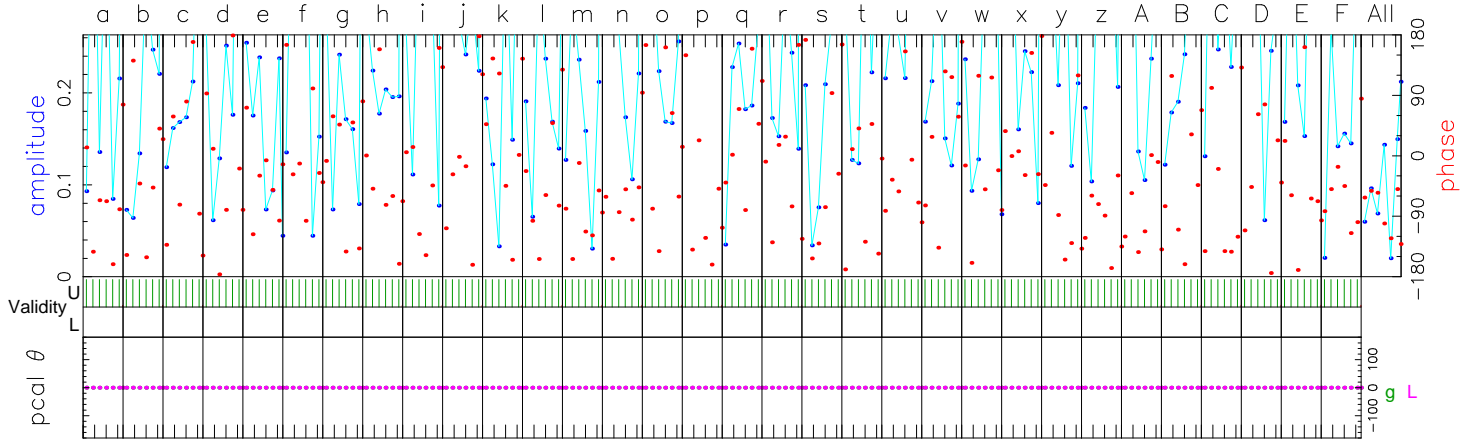


delay rate (ns/s)



Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 040000.00
Stop 040300.22
FRT 040130.00
Corr/FF/0.00
2024:361:053129
2025:041:180000
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



85244.0	85308.0	85372.0	85436.0	85500.0	85564.0	85628.0	85692.0	85756.0	85820.0	85884.0	85948.0	86012.0	86076.0	86140.0	86204.0	86268.0	86332.0	86396.0	86460.0	86524.0	86588.0	86652.0	86716.0	86780.0	86844.0	86908.0	86972.0	87036.0	87100.0	87164.0	87228.0	Freq (MHz)	All					
-98.4	-68.0	-110.8	-29.3	-47.9	-49.3	24.6	-64.9	-96.8	-72.0	-6.2	-74.8	-86.9	-82.7	-142.7	-131.5	44.6	-24.9	-89.6	-141.8	-48.3	158.3	7.9	11.4	-104.3	-97.2	-61.2	-41.3	-153.0	-33.8	-71.0	-69.4	Phase	-69.2					
0.2	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.1	0.2	0.0	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	Ampl	0.1				
160.6	470.0	55.8	483.3	354.8	460.5	497.4	307.0	347.0	450.2	281.6	494.0	498.6	96.8	89.3	52.3	140.7	259.2	288.9	154.4	472.1	152.1	148.8	322.4	428.2	117.1	476.1	258.9	508.5	430.5	126.9	16.8	Std box	93.1					
UL	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	352/0	352/0	352/0	APs used					
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	0	0	PC freqs				
L	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 freqs			
gL	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	0.0	0.0	PC phase			
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	ManI PC		
L	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	PC amp	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	W20UL	W21UL	W22UL	W23UL	W24UL	W25UL	W26UL	W27UL	W28UL	W29UL	W30UL	W31UL	W32UL	Chan ids				
L	W00UR	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	W31UR	W32UR	Chan ids				

Group delay (usec) (SBD)	-2.41589812146E+02	Apriori delay (usec)	-2.40945528825E+02	Resid mbdelay (usec)	-3.65832E-03	+/-	4.4E-05
Sband delay (usec)	-2.41585600325E+02	Apriori clock (usec)	5.5660057E-01	Resid sbdelay (usec)	-6.40072E-01	+/-	1.4E-03
Phase delay (usec)	-2.40945531058E+02	Apriori clockrate (us/s)	1.1204089E-06	Resid phdelay (usec)	-2.23311E-06	+/-	6.1E-07
Delay rate (us/s)	-1.48375505810E+00	Apriori rate (us/s)	-1.48375935995E+00	Resid rate (us/s)	4.30185E-06	+/-	5.9E-09
Total phase (deg)	-16.3	Apriori accel (us/s/s)	3.67667304498E-06	Resid phase (deg)	-69.2	+/-	18.9

ph/seg (deg)	RMS 28.8	Theor. 25.0	Amplitude Search (1024X128)	0.080	+/-	0.014	PCal mode: MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	58.2	43.6	Interp.	0.000	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	54.3	53.4	Inc. seg. avg.	0.088	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	72.9	93.3	Inc. frq. avg.	0.084	Data rate(MSamp/s): 128 MBpts 128 Amb 0.016 us	dr window (ns/s)	-0.011	0.011	
					Data rate(Mb/s): 8192	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

g: az 192.9 el 15.1 pa 3.0 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 8505.687 5617.036 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//gL...3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//gL.W.240.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

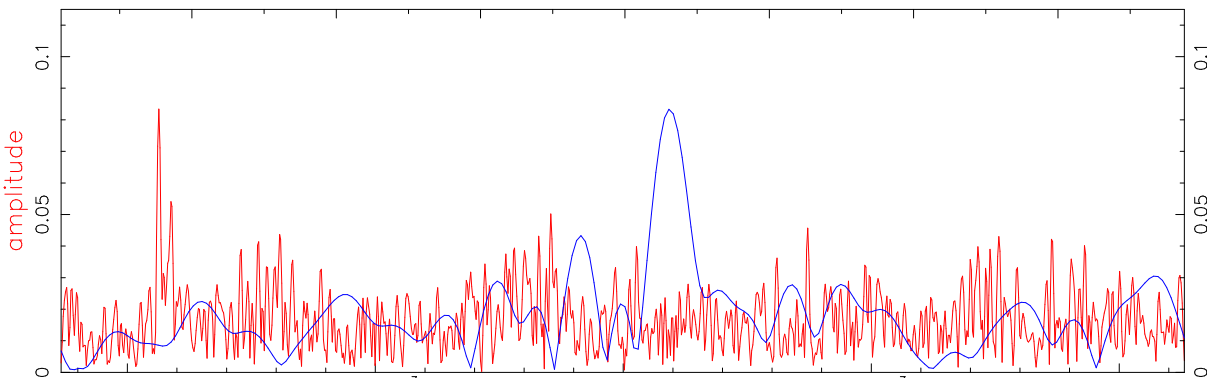
aux01

3C273.3MP2MB, No0707, gL

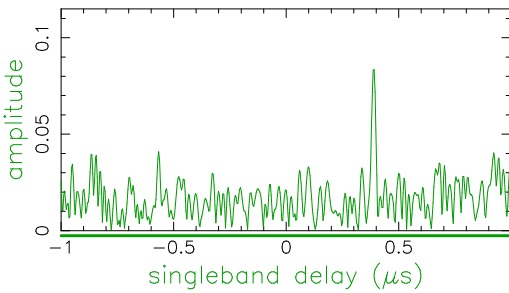
GLT - JCMT, fgroup W, pol RL

multiband delay (μ s)

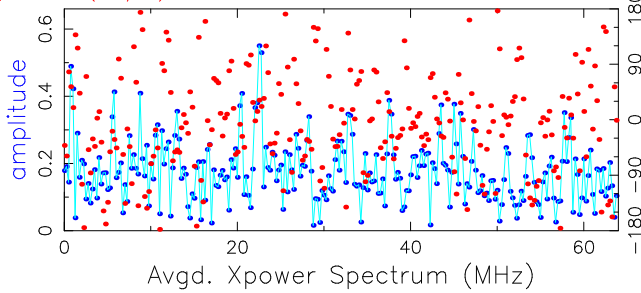
Fringe quality 0



SNR 6.2
Int time 179.994
Amp 0.115
Phase 144.5
PFD 2.3e-01
Delays (us)
SBD 0.388745
MBD 0.000615
Fringe rate (Hz)
-0.814631
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

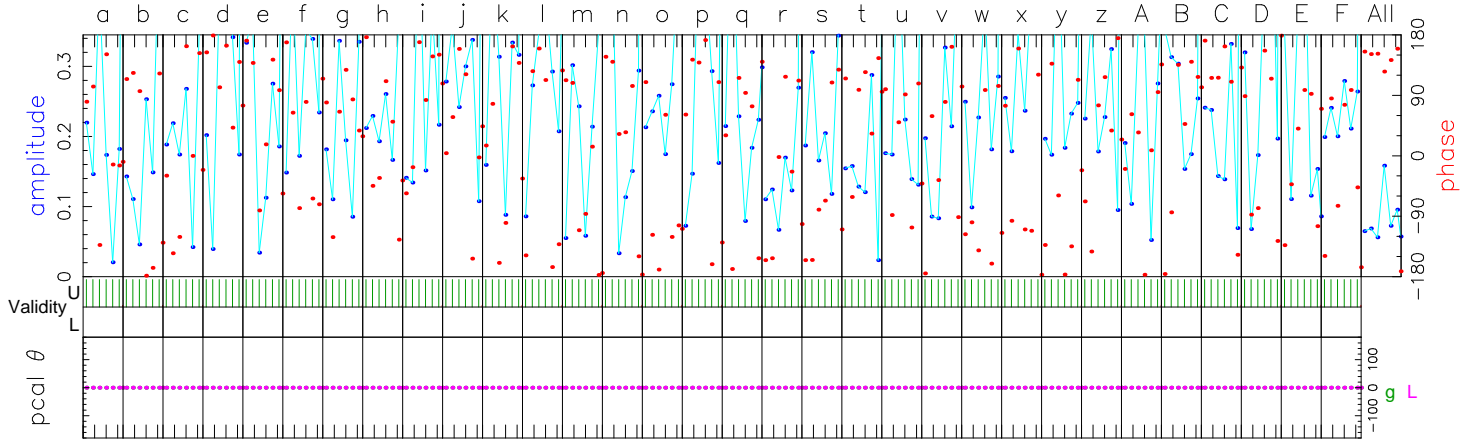


delay rate (ns/s)



Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 040000.00
Stop 040300.22
FRT 040130.00
Corr/FF/build
2024:361:053129
2025:041:180008
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



85244.0	85308.0	85372.0	85436.0	85500.0	85564.0	85628.0	85692.0	85756.0	85820.0	85884.0	85948.0	86012.0	86076.0	86140.0	86204.0	86268.0	86332.0	86396.0	86460.0	86524.0	86588.0	86652.0	86716.0	86780.0	86844.0	86908.0	86972.0	87036.0	87100.0	87164.0	87228.0	Freq (MHz)	All	
156.7	145.4	-161.7	119.9	139.6	26.8	68.3	-90.5	148.8	97.6	134.8	158.0	167.5	147.1	-131.7	155.8	150.6	141.0	-158.7	71.2	66.1	-170.6	173.5	-173.8	-132.6	107.1	71.5	149.3	135.4	142.6	88.8	73.3	Phase	144.5	
0.0	0.2	0.1	0.3	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.3	0.1	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.0	0.1	0.2	0.2	0.2	0.1	0.1	0.1	Ampl	0.1	
120.5	449.0	67.2	314.1	374.3	4.8	473.3	441.4	56.8	153.7	94.7	52.8	91.0	358.5	461.6	414.1	465.9	294.9	86.4	120.5	434.2	75.0	84.3	203.4	22.5	271.8	240.3	227.8	72.5	382.3	325.6	35.3	Std box	356.5	
UL	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	352/0	352/0	APs used		
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		
L	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		
gL	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		
gL	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	Manl PC		
L	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	
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		
W00UR	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	W31UR	Chan ids		
g																																	Tracks	
W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	W20UL	W21UL	W22UL	W23UL	W24UL	W25UL	W26UL	W27UL	W28UL	W29UL	W30UL	W31UL	Chan ids		
L																																	Tracks	

Group delay (usec) (SBD)	-2.40554288744E+02	Apriori delay (usec)	-2.40945528825E+02	Resid mbdelay (usec)	6.15081E-04	+/-	4.3E-05
Sband delay (usec)	-2.40556783825E+02	Apriori clock (usec)	5.5660057E-01	Resid sbdelay (usec)	3.88745E-01	+/-	1.4E-03
Phase delay (usec)	-2.40945524165E+02	Apriori clockrate (us/s)	1.1204089E-06	Resid phdelay (usec)	4.65977E-06	+/-	5.9E-07
Delay rate (us/s)	-1.48376881701E+00	Apriori rate (us/s)	-1.48375935995E+00	Resid rate (us/s)	-9.45706E-06	+/-	5.7E-09
Total phase (deg)	-162.6	Apriori accel (us/s/s)	3.67667304498E-06	Resid phase (deg)	144.5	+/-	18.4

ph/seg (deg)	RMS 12.3	Theor. 24.4	Amplitude Search (1024X128)	0.115 +/- 0.018	0.082	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	40.6	42.5	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	54.9	52.1	Inc. seg. avg.	0.107	0.107	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	72.9	90.9	Inc. frq. avg.	0.109	0.109	Data rate(MSamp/s): 128 MBpts 128 Amb 0.016 us	dr window (ns/s) -0.011 0.011
g: az 192.9 el 15.1 pa 3.0			L: az 93.6 el 15.4 pa -70.0			Data rate(Mb/s): 8192	nlags: 256 t_cohere infinite
Control file: cf_1234_gmva			Input file: /Exps/c241b/v2/3mm/1234/No0707//g...3MP2MB				ion window (TEC) 0.00 0.00
							simultaneous interpolator
							Output file: /Exps/c241b/v2/3mm/1234/No0707//gL.W.276.3MP2MB

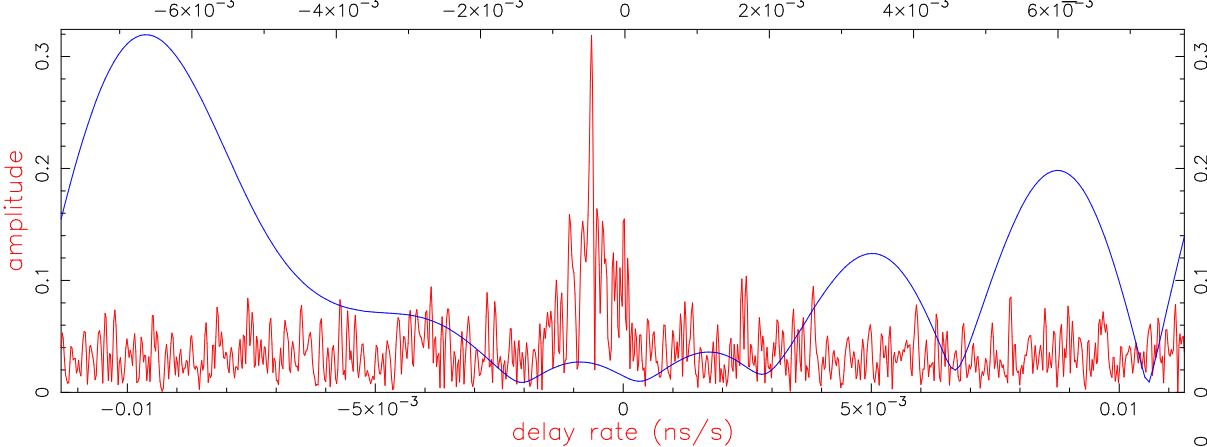
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, kL

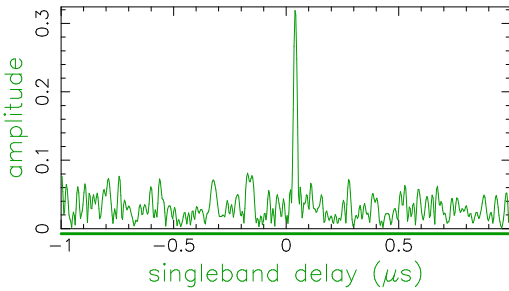
VLBA KP - JCMT, fgroup W, pol LL

multiband delay (μ s)

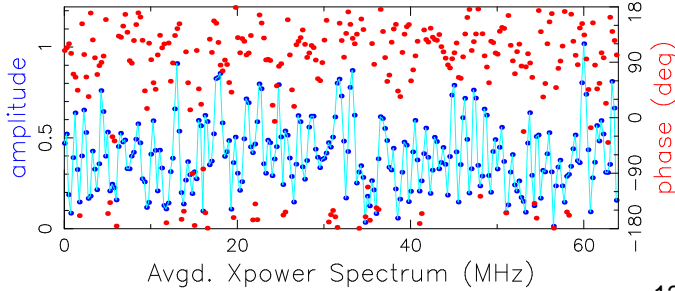


Fringe quality 9

SNR 11.9
 Int time 179.984
 Amp 0.324
 Phase -54.7
 PFD 3.8e-24
 Delays (us)
 SBD 0.040603
 MBD -0.006567
 Fringe rate (Hz)
 -0.055514
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

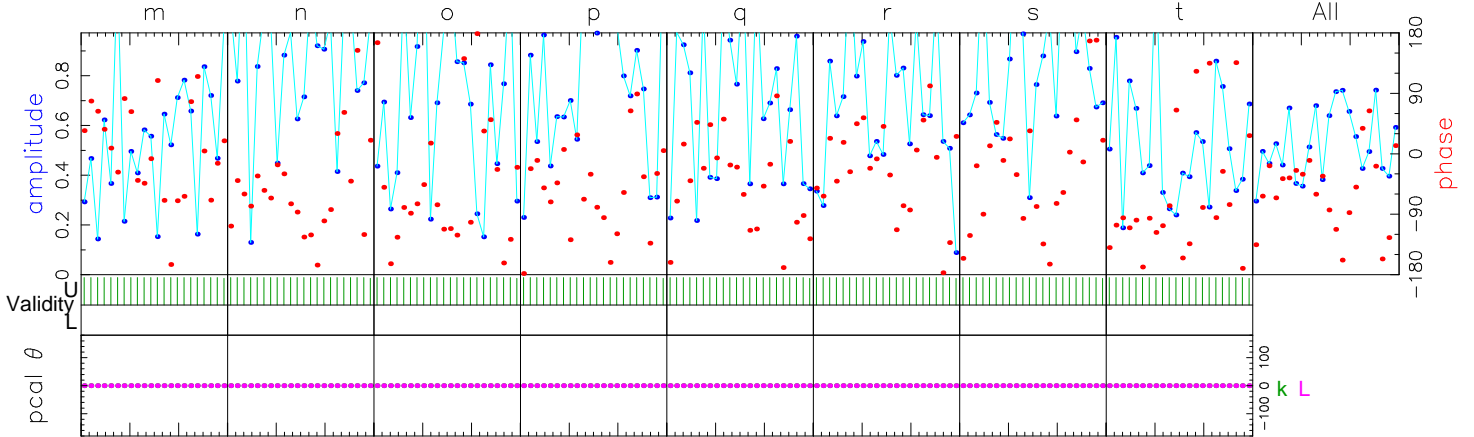


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175942
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-8.9	-69.5	-96.3	-56.7	-34.8	-9.8	-46.6	-110.3	Phase	-54.7
	0.3	0.5	0.4	0.4	0.4	0.4	0.3	0.3	Ampl.	0.4
	265.3	266.8	267.4	268.2	267.6	267.8	266.0	265.0	Sbd box	267.4
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
k	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
k:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
L	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD)	1.02297518260E+04	Apriori delay (usec)	1.02297115176E+04	Resid mbdelay (usec)	-6.56663E-03	+/-	9.1E-05
Sband delay (usec)	1.02297521206E+04	Apriori clock (usec)	3.6878395E-01	Resid sbdelay (usec)	4.06030E-02	+/-	7.3E-04
Phase delay (usec)	1.02297115158E+04	Apriori clockrate (us/s)	4.8829300E-07	Resid phdelay (usec)	-1.76233E-06	+/-	3.1E-07
Delay rate (us/s)	-7.42877251279E-01	Apriori rate (us/s)	-7.42876606821E-01	Resid rate (us/s)	-6.44459E-07	+/-	3.0E-09
Total phase (deg)	-9.2	Apriori accel (us/s/s)	-5.36766432871E-05	Resid phase (deg)	-54.7	+/-	9.6

ph/seg (deg)	57.4	RMS	22.6	Theor.	Amplitude	0.324 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	75.1	Search (1024X32)	0.312	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	Interp.	0.000	sb window (us)	-1.000	1.000		
ph/frq (deg)	40.1	Inc. seg. avg.	0.489	Bits/sample: 2x2	Inc. frq. avg.	0.370	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	25.7	Inc. frq. avg.	0.370	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

k: az 130.2 el 48.5 pa -40.3 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 4229.807 1536.745 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//kL..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//kL.W.160.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

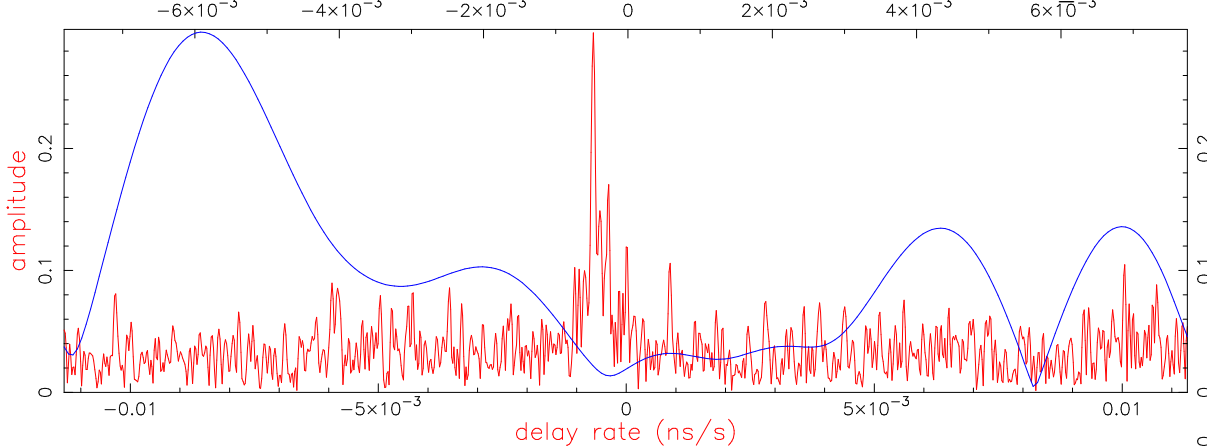
aux01

3C273.3MP2MB, No0707, kL

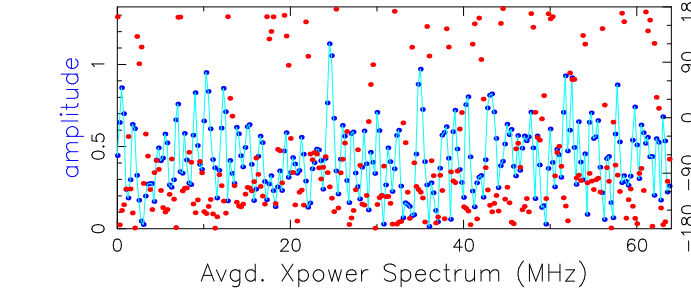
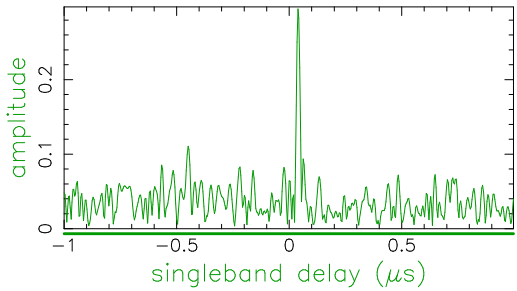
VLBA_KP - JCMT, fgroup W, pol RR

multiband delay (μ s)

Fringe quality 9

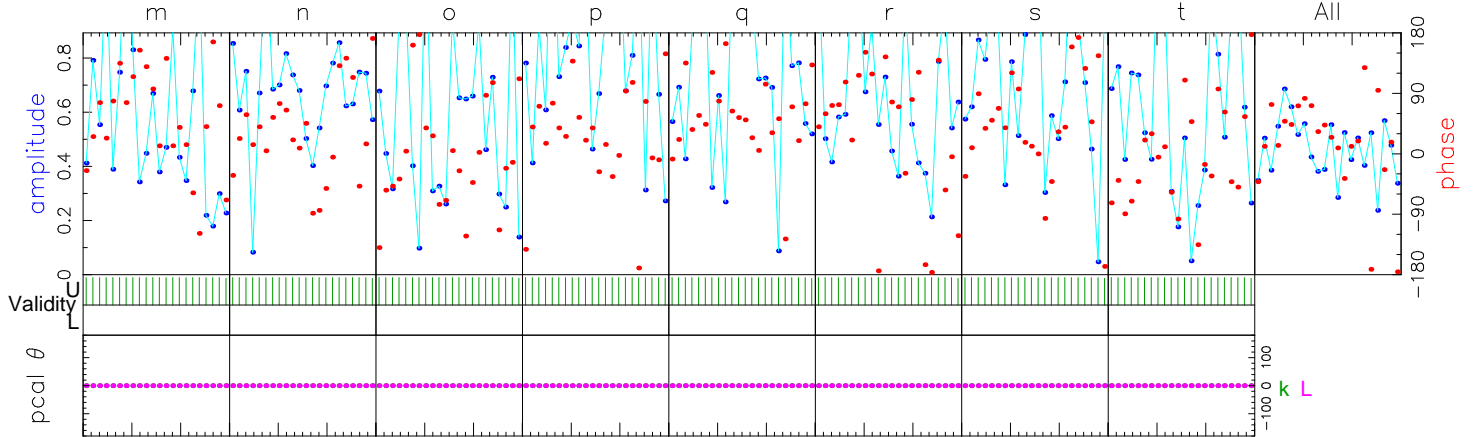


SNR 10.9
 Int time 179.984
 Amp 0.298
 Phase 35.8
 PFD 2.4e-19
 Delays (us)
 SBD 0.040173
 MBD -0.005837
 Fringe rate (Hz)
 -0.056517
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175944
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	61.1	26.7	-13.5	37.6	52.9	87.5	56.0	-20.3	Phase	35.8
	0.3	0.3	0.3	0.4	0.5	0.3	0.3	0.4	Ampl.	0.3
	265.2	267.5	267.3	268.2	266.8	268.9	266.9	265.9	Sbd box	267.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
k	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
k:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
L	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	1.02297525559E+04		Apriori delay (usec)		1.02297115176E+04		Resid mbdelay (usec)		-5.83671E-03	+/- 9.9E-05
Sband delay (usec)	1.02297516909E+04		Apriori clock (usec)		3.6878395E-01		Resid sbdelay (usec)		4.01733E-02	+/- 7.9E-04
Phase delay (usec)	1.02297115188E+04		Apriori clockrate (us/s)		4.8829300E-07		Resid phdelay (usec)		1.15590E-06	+/- 3.4E-07
Delay rate (us/s)	-7.42877262925E-01		Apriori rate (us/s)		-7.42876606821E-01		Resid rate (us/s)		-6.56105E-07	+/- 3.3E-09
Total phase (deg)			81.3		Apriori accel (us/s/s)		-5.36766432871E-05		35.8	+/- 10.5

ph/seg (deg) 60.8 24.6 Amplitude 0.298 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 67.1 43.0 Search (1024X32) 0.291 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 40.2 14.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 32.0 25.9 Inc. seg. avg. 0.426 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 k: az 130.2 el 48.5 pa -40.3 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 4229.807 1536.745 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//kL..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//kL.W.172.3MP2MB

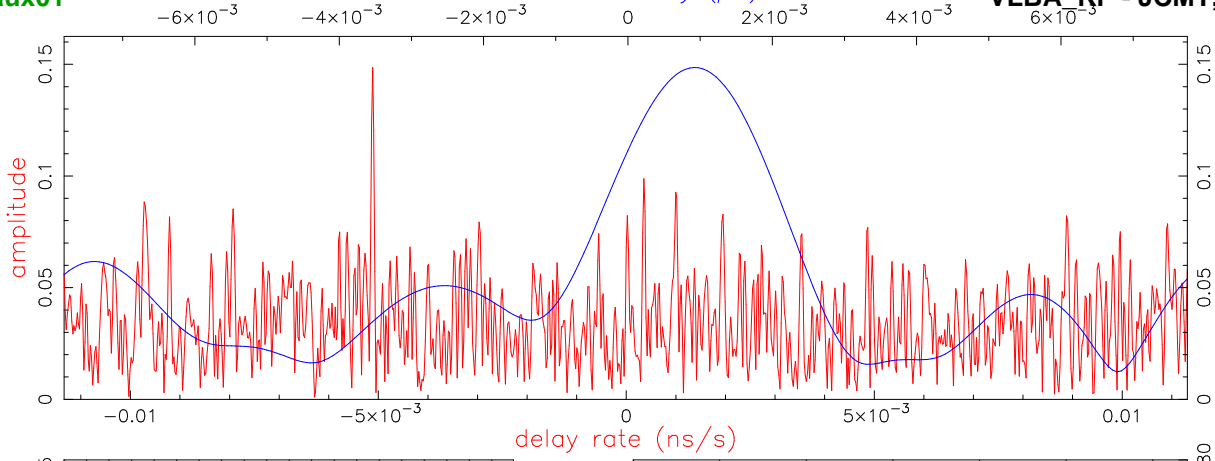
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, kL

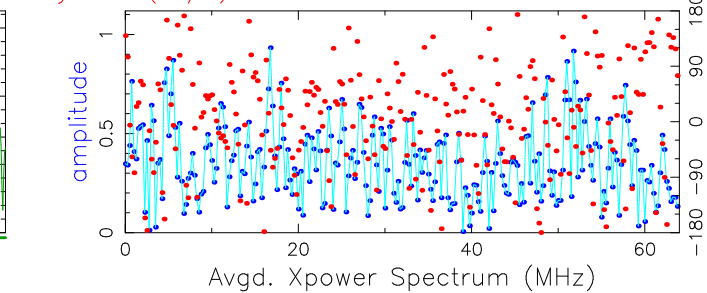
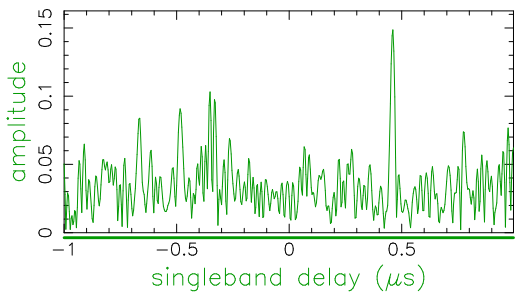
VLBA KP - JCMT, fgroup W, pol LR

multiband delay (μ s)



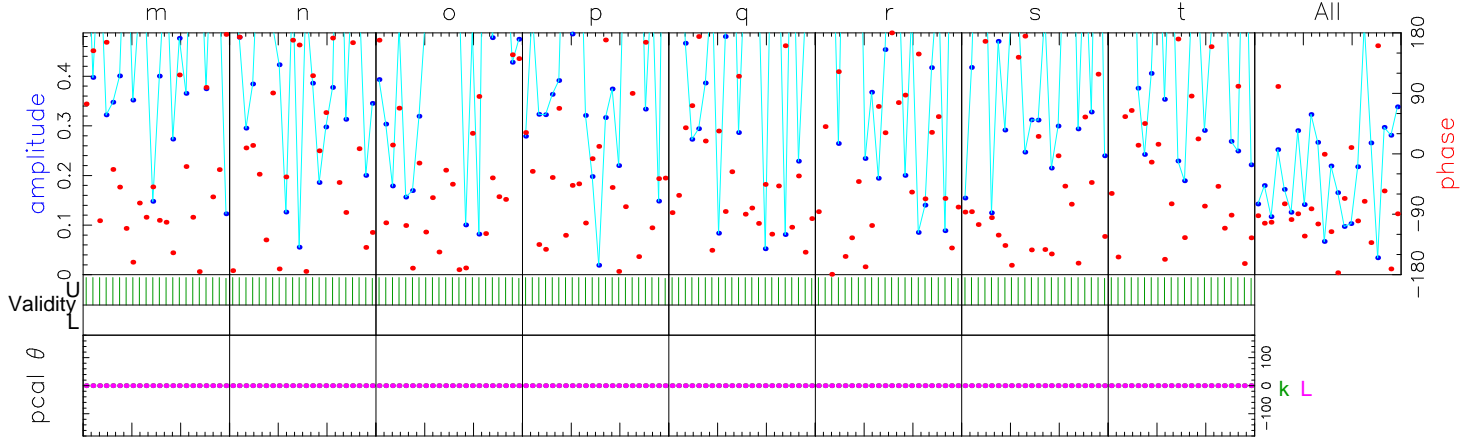
Fringe quality 0

SNR 5.5
 Int time 179.984
 Amp 0.163
 Phase -97.4
 PFD 9.9e-01
 Delays (us)
 SBD 0.459899
 MBD 0.000893
 Fringe rate (Hz)
 -0.440436
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175946
 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
	-100.3	-154.2	-92.8	-79.4	-84.6	-114.6	-132.5	-53.1	Phase	-97.4
	0.2	0.1	0.2	0.2	0.3	0.1	0.2	0.1	Ampl.	0.2
	271.2	477.5	45.7	35.7	374.8	190.2	188.3	486.0	Sbd box	374.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
k	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
k:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
L	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	

Group delay (usec) (SBD)	1.02301655360E+04	Apriori delay (usec)	1.02297115176E+04	Resid mbdelay (usec)	8.93437E-04	+/-	2.0E-04
Sband delay (usec)	1.02301714166E+04	Apriori clock (usec)	3.6878395E-01	Resid sbdelay (usec)	4.59899E-01	+/-	1.6E-03
Phase delay (usec)	1.02297115145E+04	Apriori clockrate (us/s)	4.8829300E-07	Resid phdelay (usec)	-3.13957E-06	+/-	6.7E-07
Delay rate (us/s)	-7.42881719850E-01	Apriori rate (us/s)	-7.42876606821E-01	Resid rate (us/s)	-5.11303E-06	+/-	6.5E-09
Total phase (deg)	-51.9	Apriori accel (us/s/s)	-5.36766432871E-05	Resid phase (deg)	-97.4	+/-	20.9

ph/seg (deg) 58.8 49.1 Search (1024X32) 0.147 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 81.9 85.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 34.7 29.6 Inc. seg. avg. 0.167 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 49.4 51.7 Inc. frq. avg. 0.155 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 k: az 130.2 el 48.5 pa -40.3 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 4229.807 1536.745 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//kL..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//kL.W.184.3MP2MB

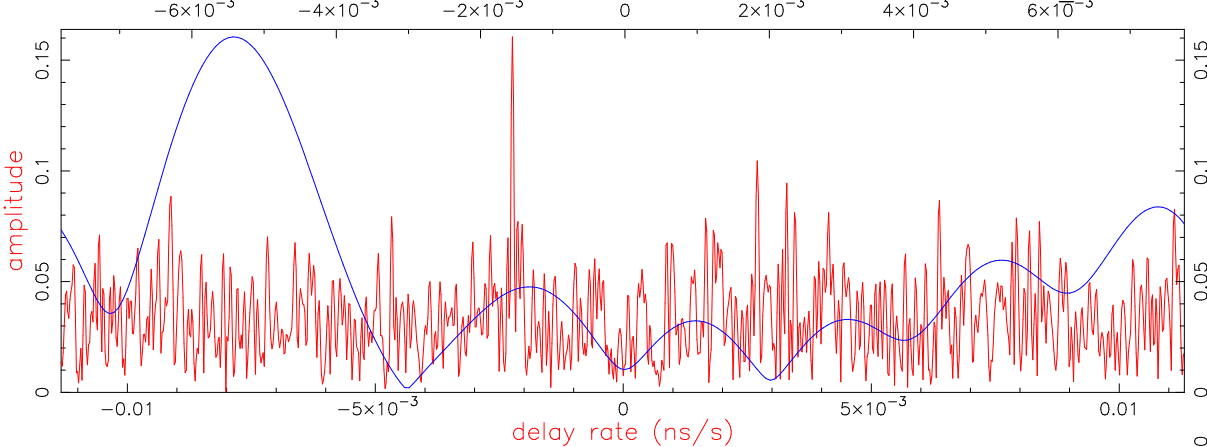
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, kL

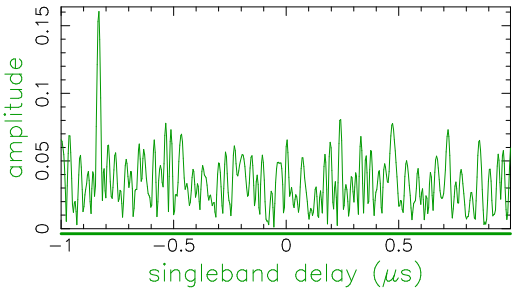
VLBA KP - JCMT, fgroup W, pol RL

multiband delay (μ s)

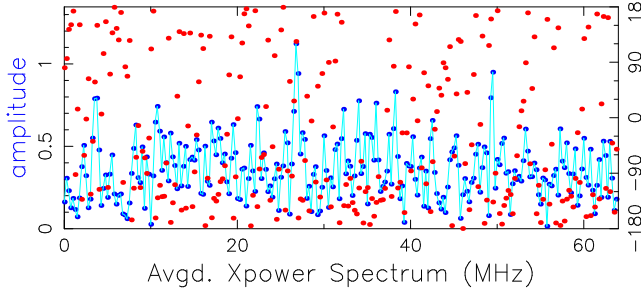


Fringe quality 0

SNR 5.9
 Int time 179.984
 Amp 0.164
 Phase 40.0
 PFD 3.4e-01
 Delays (us)
 SBD -0.832934
 MBD -0.005427
 Fringe rate (Hz)
 -0.193146
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

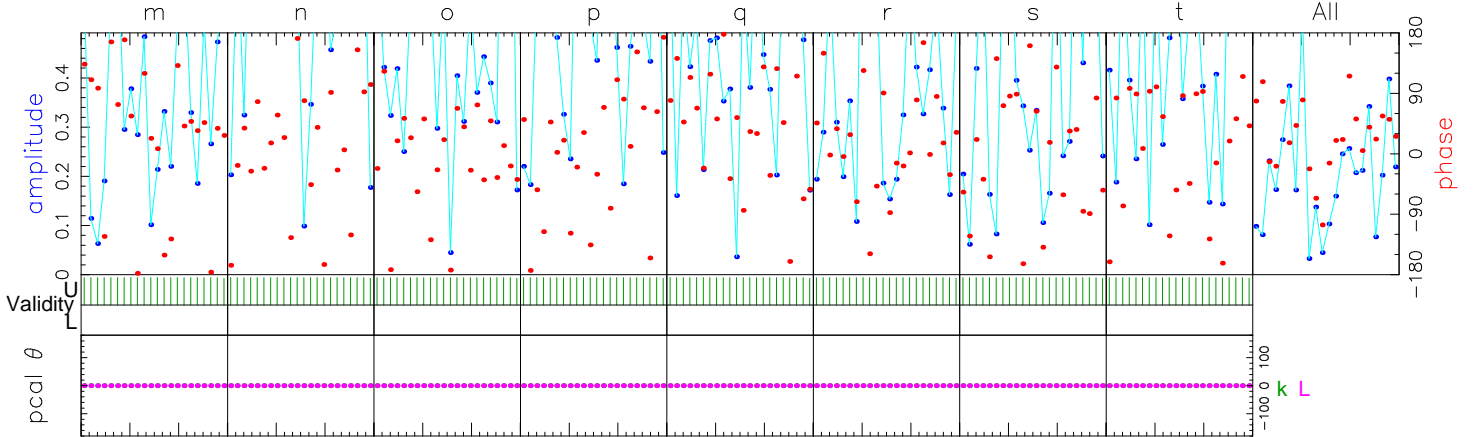


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175948
 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
	91.9	32.7	4.3	24.1	66.0	32.8	50.6	48.1	Phase	40.0
	0.2	0.2	0.3	0.1	0.2	0.2	0.1	0.2	Ampl.	0.2
	1.5	427.9	43.0	463.1	344.6	301.2	154.6	102.4	Sbd box	43.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
k	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
k:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
L	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD)	1.02288779656E+04	Apriori delay (usec)	1.02297115176E+04	Resid mbdelay (usec)	-5.42705E-03	+/-	1.8E-04
Sband delay (usec)	1.02288785834E+04	Apriori clock (usec)	3.6878395E-01	Resid sbdelay (usec)	-8.32934E-01	+/-	1.5E-03
Phase delay (usec)	1.02297115189E+04	Apriori clockrate (us/s)	4.8829300E-07	Resid phdelay (usec)	1.28934E-06	+/-	6.2E-07
Delay rate (us/s)	-7.42878849054E-01	Apriori rate (us/s)	-7.42876606821E-01	Resid rate (us/s)	-2.24223E-06	+/-	6.0E-09
Total phase (deg)		Apriori accel (us/s/s)	-5.36766432871E-05	Resid phase (deg)	40.0	+/-	19.4

ph/seg (deg)	53.9	Theor.	45.4	Amplitude	0.164 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	81.5		79.3	Search (1024X32)	0.156	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	29.4		27.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	34.4		47.8	Inc. seg. avg.	0.162	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.163	Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

k: az 130.2 el 48.5 pa -40.3 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 4229.807 1536.745 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//kL..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//kL.W.195.3MP2MB

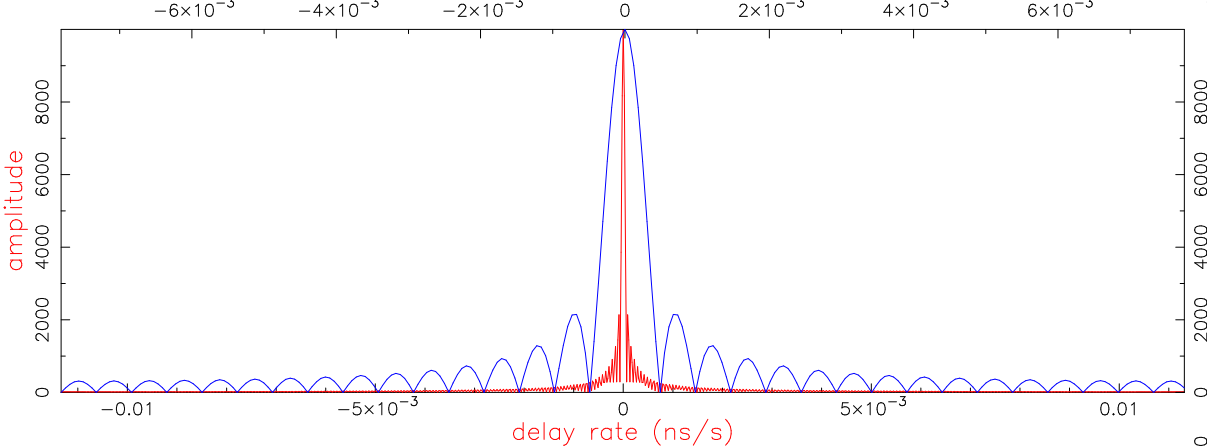
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, LL

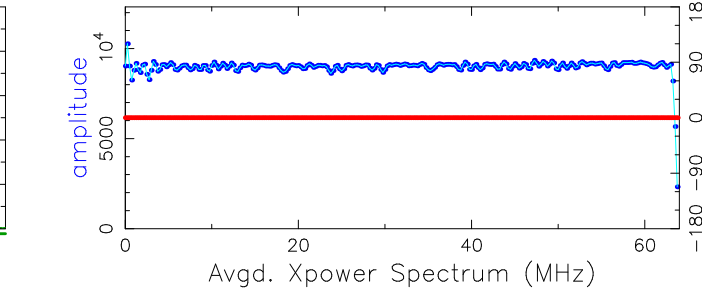
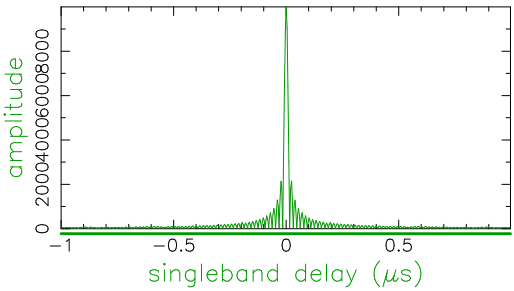
JCMT - JCMT, fgroup W, pol RR

multiband delay (μ s)



Fringe quality 9

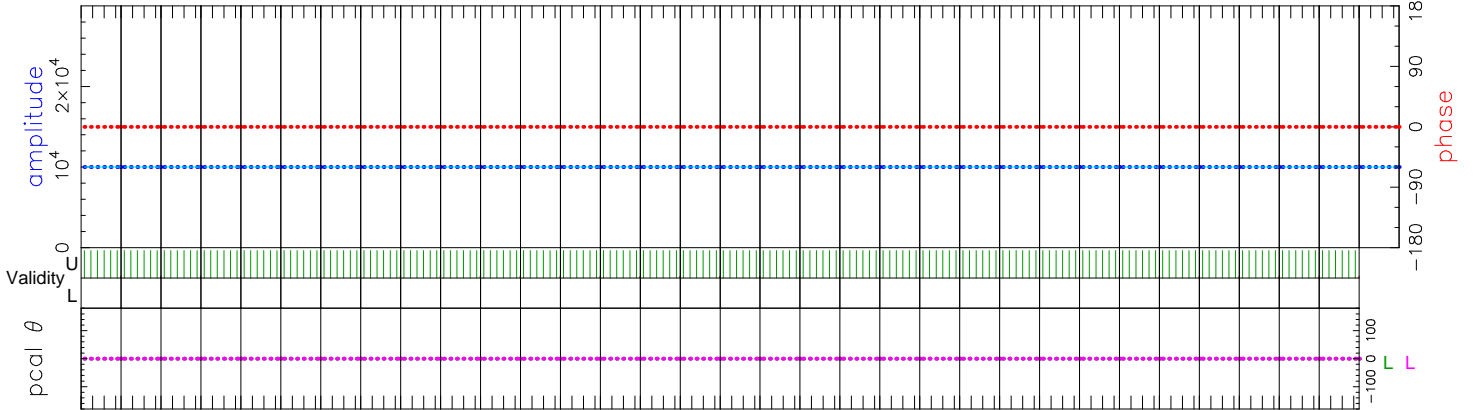
SNR 733764.8
 Int time 179.994
 Amp 9999.998
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:180003
 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

a b c d e f g h i j k l m n o p q r s t u v w x y z A B C D E F All



85244.0	85308.0	85372.0	85436.0	85500.0	85564.0	85628.0	85692.0	85756.0	85820.0	85884.0	85948.0	86012.0	86076.0	86140.0	86204.0	86268.0	86332.0	86396.0	86460.0	86524.0	86588.0	86652.0	86716.0	86780.0	86844.0	86908.0	86972.0	87036.0	87100.0	87164.0	87228.0	Frq (MHz)	All				
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	0.0	Phase	0.0			
10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0			
257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Std box	257.0			
UL	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	352/0	352/0	352/0	APs used				
L	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 freqs			
L	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 freqs		
L.L	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	0.0	0.0	PC phase		
L.L	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	0.0	0.0	ManI PC		
L	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	PC amp		
L	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	
L	W00UR	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	W31UR	Chan ids				
L	W00UR	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	W31UR	Chan ids				

Group delay (usec) (SBD)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	3.7E-10
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.2E-08
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	5.0E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	4.8E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

ph/seg (deg)	0.0	0.0	Search (1024X128)	9999.998	9999.998 +/- 0.014	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	0.0	0.0	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	0.0	0.0	Inc. seg. avg.	10000.000	10000.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	0.0	0.0	Inc. frq. avg.	9999.998	9999.998	Data rate(MSamp/s): 128 MBpts	128 Amb 0.016 us	dr window (ns/s)	-0.011	0.011	
						Data rate(Mb/s): 8192	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

L: az 93.6 el 15.4 pa -70.0 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/LL..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/LL.W.258.3MP2MB

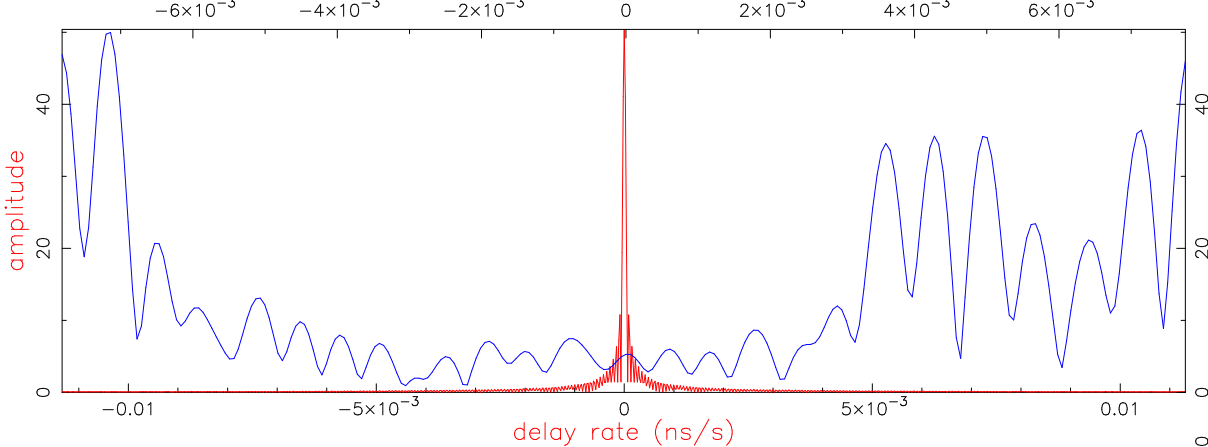
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, LL

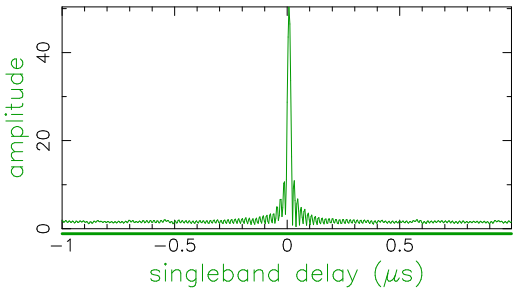
JCMT - JCMT, fgroup W, pol LR

multiband delay (μ s)

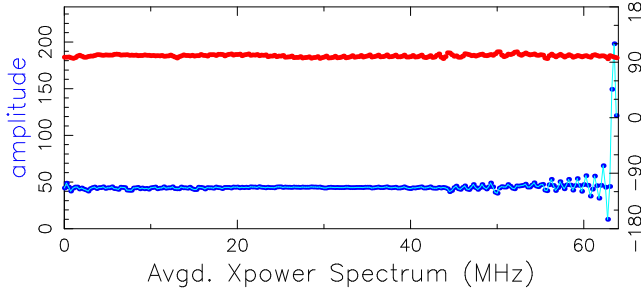


Fringe quality 5
 Error code G
 SNR 3698.8
 Int time 179.994
 Amp 50.409
 Phase -80.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.008381
 MBD -0.007167
 Fringe rate (Hz)
 0.000009
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:180012
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

delay rate (ns/s)

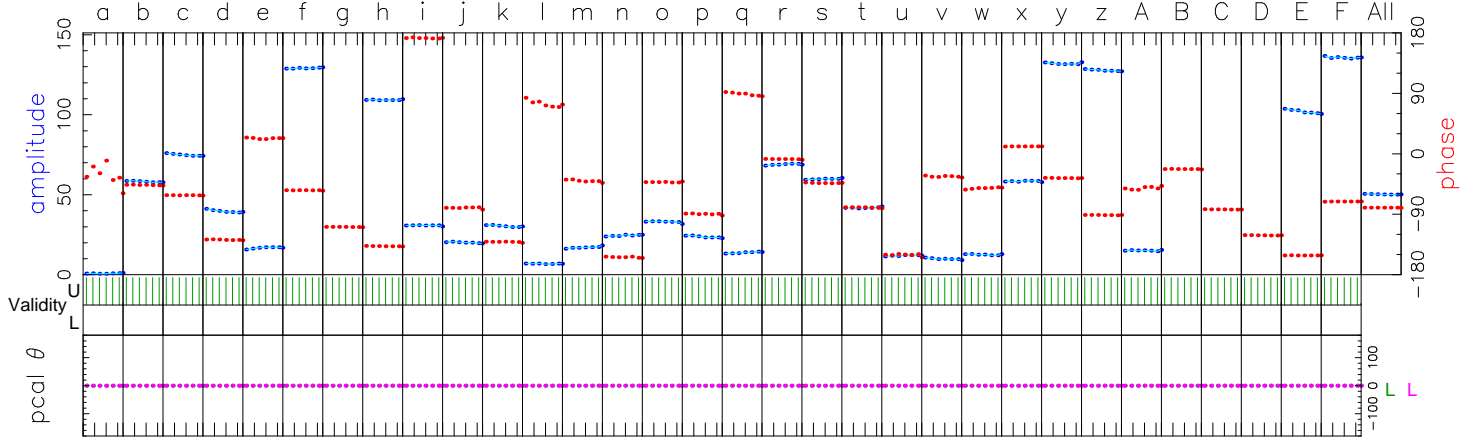


singleband delay (μ s)



Avgd. Xpower Spectrum (MHz)

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



85244.0	85308.0	85372.0	85436.0	85500.0	85564.0	85628.0	85692.0	85756.0	85820.0	85884.0	85948.0	86012.0	86076.0	86140.0	86204.0	86268.0	86332.0	86396.0	86460.0	86524.0	86588.0	86652.0	86716.0	86780.0	86844.0	86908.0	86972.0	87036.0	87100.0	87164.0	87228.0	Freq (MHz)	All			
-29.2	-46.4	-61.7	-127.9	23.0	-54.3	-108.8	-137.4	172.2	-80.1	-130.9	74.9	-40.0	-153.7	-42.3	-89.4	89.2	-7.9	-43.4	-79.8	-150.0	-33.6	-51.4	10.9	-36.1	-91.2	-51.5	-22.7	-82.8	-121.3	-151.3	-71.0	Phase	-80.2			
0.8	58.3	75.1	39.8	16.8	129.1	168.7	109.2	30.9	20.2	30.5	6.8	17.0	24.5	33.2	23.8	13.8	69.0	59.8	41.8	12.0	10.1	12.6	58.5	132.0	127.9	15.1	151.7	263.1	247.2	102.2	135.8	Ampl	69.9			
256.0	258.6	258.9	257.9	256.5	258.2	258.8	258.8	258.3	258.5	258.3	256.6	257.6	258.6	259.1	257.5	256.9	258.6	258.8	258.5	258.9	259.0	260.0	258.8	258.4	258.8	260.9	258.6	258.5	258.8	259.1	258.7	Std box	259.1			
UL	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	352/0	352/0	APs used				
L	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 freqs			
L	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 freqs			
L.L	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	PC phase			
L.L	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			
L	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		
L	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	
L	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	W20UL	W21UL	W22UL	W23UL	W24UL	W25UL	W26UL	W27UL	W28UL	W29UL	W30UL	W31UL	Chan ids			
L	W00UR	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	W31UR	Chan ids			

Group delay (usec) (SBD)	8.45757031250E-03	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-7.16743E-03	+/-	7.3E-08
Sband delay (usec)	8.38075000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	8.38075E-03	+/-	2.3E-06
Phase delay (usec)	-2.58643967538E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.58644E-06	+/-	1.0E-09
Delay rate (us/s)	1.02032297220E-10	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	1.02032E-10	+/-	9.6E-12
Total phase (deg)		Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-80.2	+/-	0.0

ph/seg (deg)	RMS 0.1	Theor. 0.0	Amplitude Search (1024X128)	50.409 +/- 0.014	49.744	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	0.4	0.1	Interp.	0.000	0.000E+00 (us/s)	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	66.6	0.1	Inc. seg. avg.	50.293	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	139.8	0.2	Inc. frq. avg.	69.909	Data rate(MSamp/s): 128 MBpts	128 Amb 0.016 us	dr window (ns/s) -0.011 0.011
					Data rate(Mb/s): 8192	nlags: 256 t_cohere infinite	ion window (TEC) 0.00 0.00

L: az 93.6 el 15.4 pa -70.0 L: az 93.6 el 15.4 pa -70.0 u, v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/LL.:3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/LL.W.283.3MP2MB

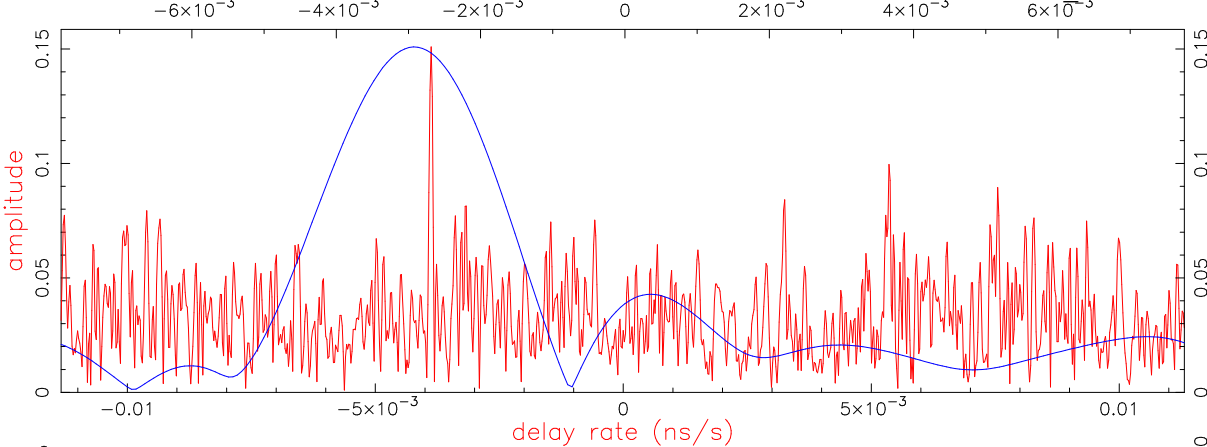
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, IL

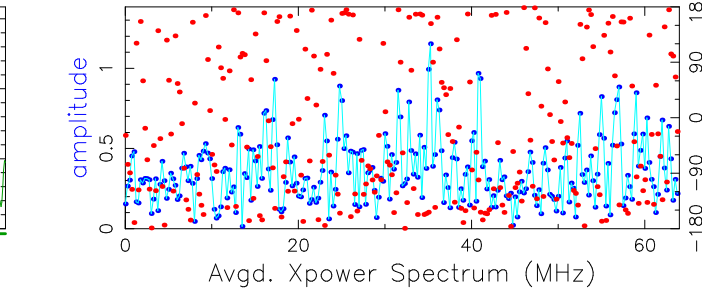
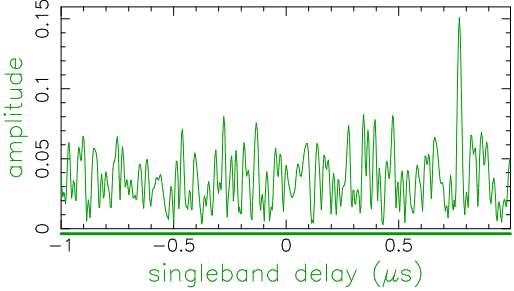
VLBA LA - JCMT, fgroup W, pol LL

multiband delay (μ s)



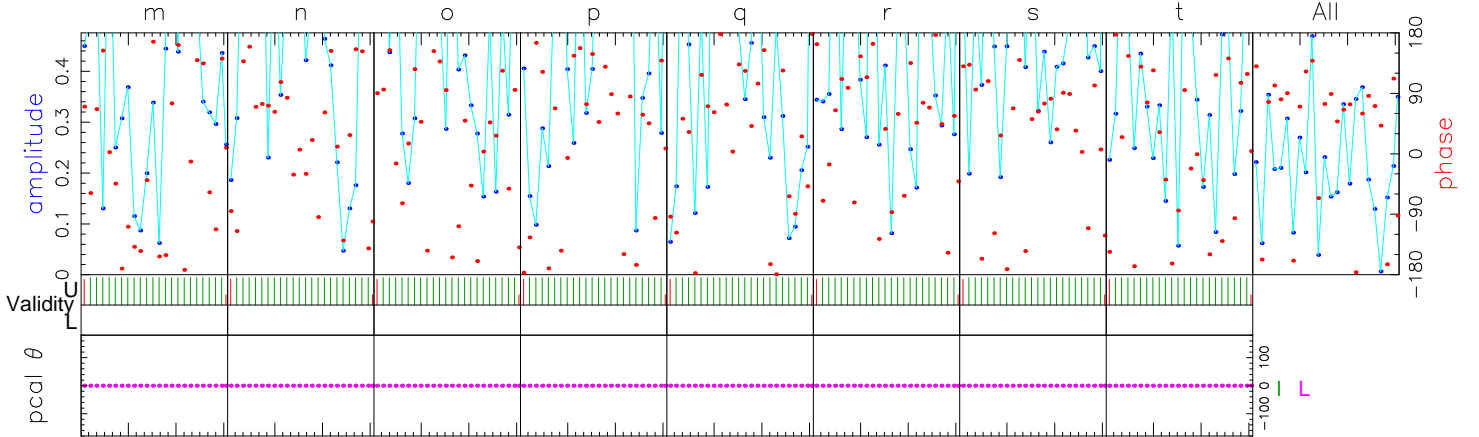
Fringe quality 0

SNR 5.5
 Int time 178.984
 Amp 0.159
 Phase 98.5
 PFD 9.8e-01
 Delays (us)
 SBD 0.769048
 MBD -0.002935
 Fringe rate (Hz)
 -0.333592
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.51
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:180013
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	351/0	351/0	351/0	351/0	351/0	351/0	351/0	351/0		453.9
I	0	0	0	0	0	0	0	0	Ampl.	0.1
L	0	0	0	0	0	0	0	0	Sbd box	
I:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
I:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
L	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
L	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Chan ids	

Group delay (usec) (SBD) 1.03251418969E+04 Apriori delay (usec) 1.03243792069E+04 Resid mbdelay (usec) -2.93502E-03 +/- 2.0E-04
 Sband delay (usec) 1.03251482549E+04 Apriori clock (usec) -8.0813351E+00 Resid sbdelay (usec) 7.69048E-01 +/- 1.6E-03
 Phase delay (usec) 1.03243792101E+04 Apriori clockrate (us/s) 1.0208587E-07 Resid phdelay (usec) 3.17502E-06 +/- 6.7E-07
 Delay rate (us/s) -8.76369328466E-01 Apriori rate (us/s) -8.76365455791E-01 Resid rate (us/s) -3.87268E-06 +/- 6.4E-09
 Total phase (deg) 56.6 Apriori accel (us/s/s) -5.40162955711E-05 Resid phase (deg) 98.5 +/- 20.7

RMS Theor. Amplitude 0.159 +/- 0.029 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 62.6 50.8 Search (1024X32) 0.149 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 85.4 88.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 13.0 29.3 Inc. seg. avg. 0.162 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 34.2 51.2 Inc. frq. avg. 0.143 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

I: az 139.8 el 48.9 pa -31.4 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 4994.687 2025.291 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//IL..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//IL.W.286.3MP2MB

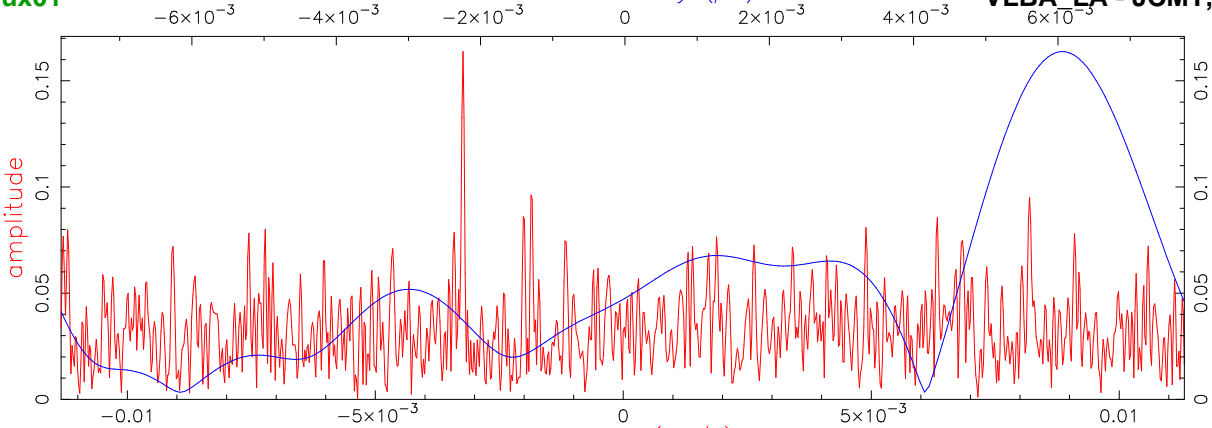
Mk4/DiFX fourfit 3.25 rev 0

aux01

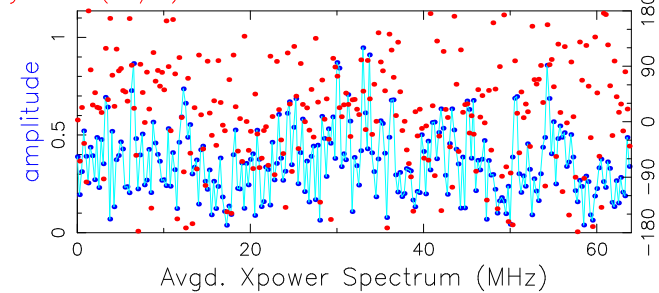
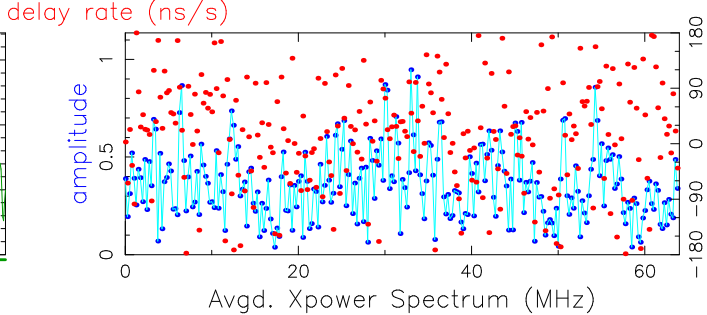
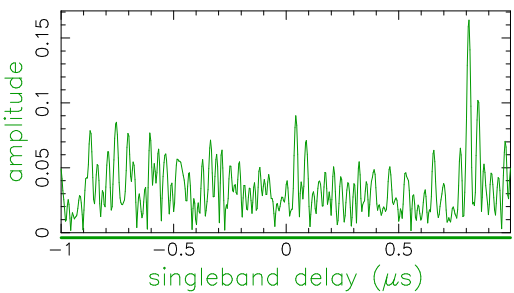
3C273.3MP2MB, No0707, IL

VLBA_LA - JCMT, fgroup W, pol RR

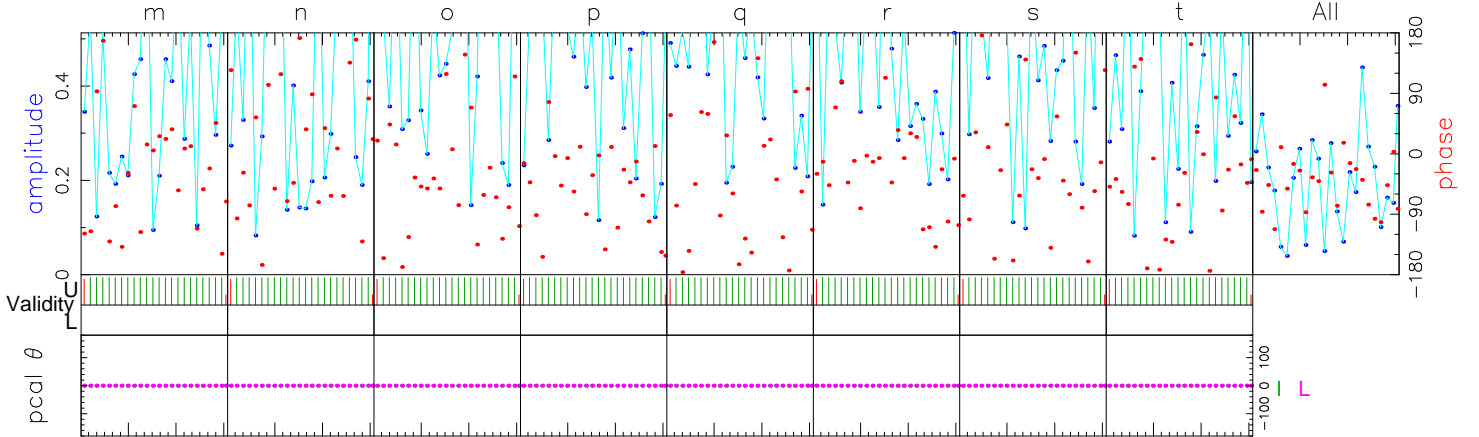
multiband delay (μ s)



Fringe quality 0
 SNR 6.0
 Int time 178.984
 Amp 0.171
 Phase -46.4
 PFD 1.8e-01
 Delays (us)
 SBD 0.811254
 MBD 0.006033
 Fringe rate (Hz) -0.279752
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.51
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:180014
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"



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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-39.8	-33.1	-52.1	-59.2	-111.0	-14.4	-39.5	-58.5	Phase	-46.4
	0.2	0.1	0.2	0.3	0.1	0.3	0.2	0.2	Ampl.	0.2
	132.7	356.3	64.9	464.5	111.1	464.0	475.0	53.8	Sbd box	464.7
U/L	351/0	351/0	351/0	351/0	351/0	351/0	351/0	351/0	APs used	
I	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
I:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
L	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	1.03251977403E+04		Apriori delay (usec)		1.03243792069E+04		Resid mbdelay (usec)		6.03343E-03	+/- 1.8E-04
Sband delay (usec)	1.03251904607E+04		Apriori clock (usec)		-8.0813351E+00		Resid sbdelay (usec)		8.11254E-01	+/- 1.4E-03
Phase delay (usec)	1.03243792054E+04		Apriori clockrate (us/s)		1.0208587E-07		Resid phdelay (usec)		-1.49554E-06	+/- 6.1E-07
Delay rate (us/s)	-8.76368703433E-01		Apriori rate (us/s)		-8.76365455791E-01		Resid rate (us/s)		-3.24764E-06	+/- 5.9E-09
Total phase (deg)	271.7		Apriori accel (us/s/s)		-5.40162955711E-05		Resid phase (deg)		-46.4	+/- 19.0

ph/seg (deg) 47.0 46.4 Search (1024X32) 0.159 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 64.1 81.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 31.1 26.8 Inc. seg. avg. 0.153 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.5 46.8 Inc. frq. avg. 0.165 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
 I: az 139.8 el 48.9 pa -31.4 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 4994.687 2025.291 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//L..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//L.W.295.3MP2MB

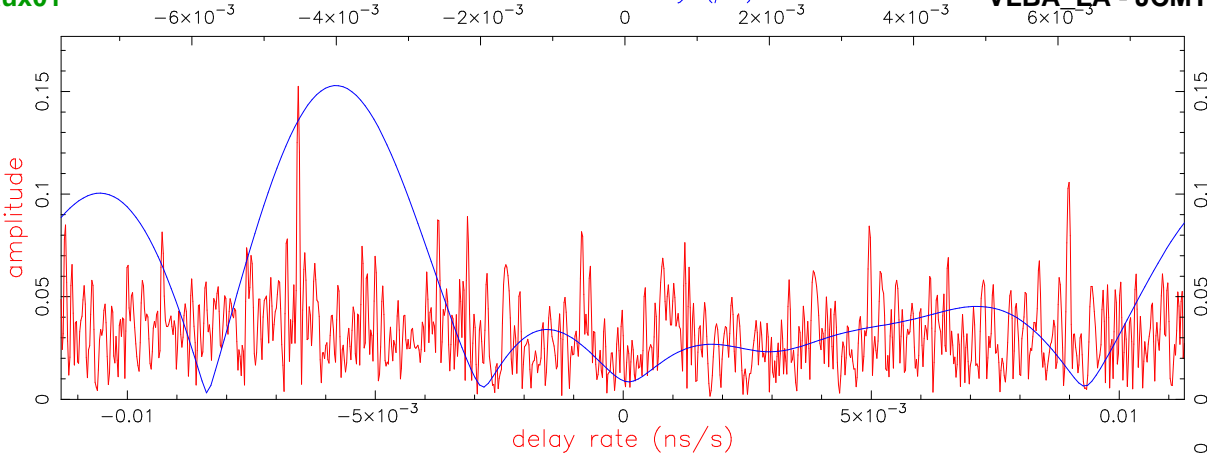
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, IL

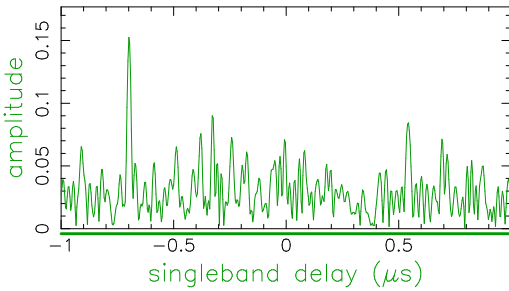
VLBA LA - JCMT, fgroup W, pol LR

multiband delay (μ s)

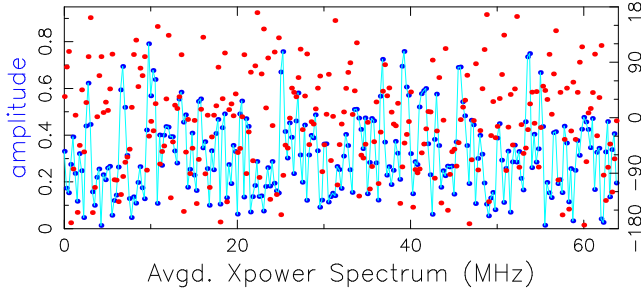


Fringe quality 0

SNR 5.6
 Int time 178.984
 Amp 0.177
 Phase -87.1
 PFD 9.1e-01
 Delays (us)
 SBD -0.698088
 MBD -0.003920
 Fringe rate (Hz)
 -0.564740
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

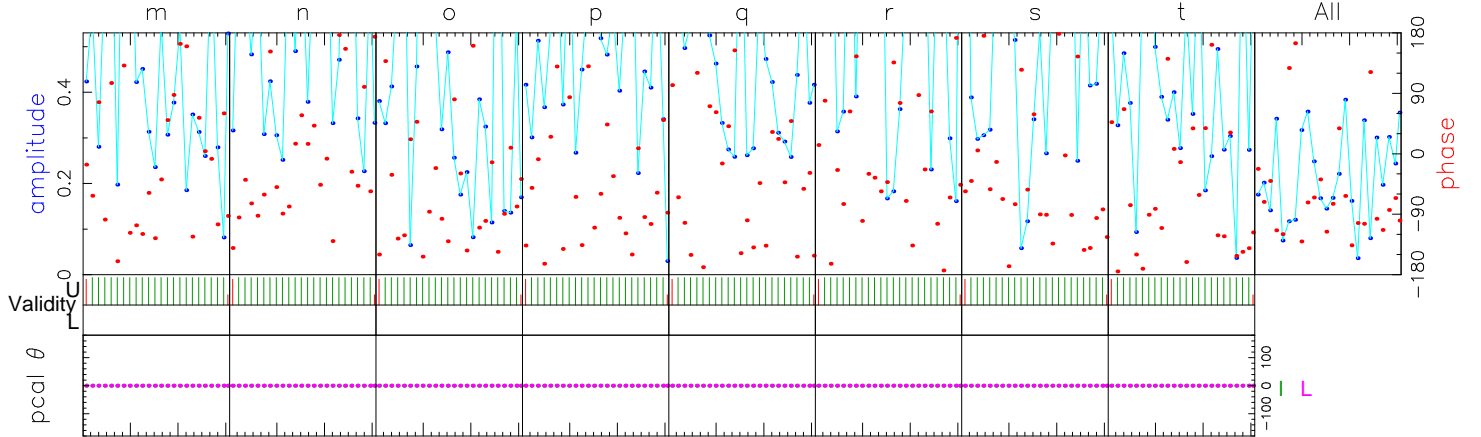


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.51
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:180016
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-101.5	-49.7	-114.4	-95.3	-104.3	-53.1	-88.0	-112.2	Phase	-87.1
	0.1	0.3	0.3	0.2	0.1	0.2	0.3	0.2	Ampl.	0.2
	302.4	175.0	106.1	424.9	405.5	163.9	78.8	104.6	Sbd box	78.3
U/L	351/0	351/0	351/0	351/0	351/0	351/0	351/0	351/0	APs used	
I	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
I:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
L	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	

Group delay (usec) (SBD) 1.03236877869E+04 Apriori delay (usec) 1.03243792069E+04 Resid mbdelay (usec) -3.92006E-03 +/- 1.9E-04
 Sband delay (usec) 1.03236811187E+04 Apriori clock (usec) -8.0813351E+00 Resid sbdelay (usec) -6.98088E-01 +/- 1.5E-03
 Phase delay (usec) 1.03243792041E+04 Apriori clockrate (us/s) 1.0208587E-07 Resid phdelay (usec) -2.80916E-06 +/- 6.6E-07
 Delay rate (us/s) -8.76372011863E-01 Apriori rate (us/s) -8.76365455791E-01 Resid rate (us/s) -6.55607E-06 +/- 6.3E-09
 Total phase (deg) 231.0 Apriori accel (us/s/s) -5.40162955711E-05 Resid phase (deg) -87.1 +/- 20.4

RMS Theor. Amplitude 0.177 +/- 0.031 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 62.3 50.0 Search (1024X32) 0.151 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 74.6 87.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 27.4 28.9 Inc. seg. avg. 0.178 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 amp/frq (%) 50.5 50.4 Inc. frq. avg. 0.172 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

I: az 139.8 el 48.9 pa -31.4 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 4994.687 2025.291 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//L..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//L.W.303.3MP2MB

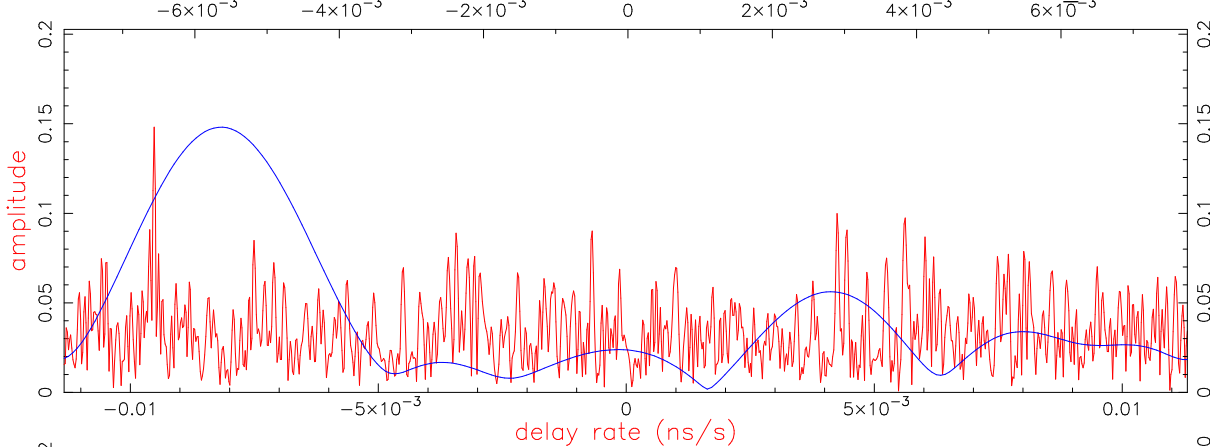
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, IL

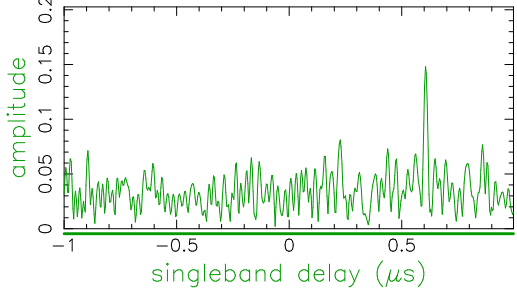
VLBA LA - JCMT, fgroup W, pol RL

multiband delay (μ s)

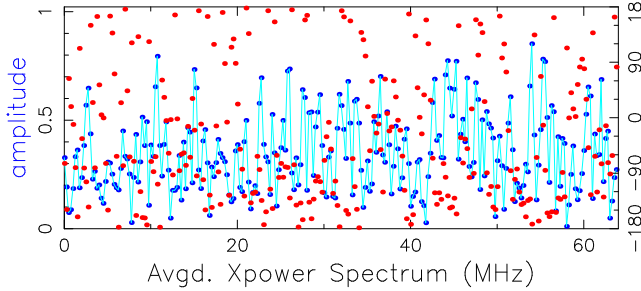


Fringe quality 0

SNR 5.4
 Int time 178.984
 Amp 0.203
 Phase 95.1
 PFD 1.0e+00
 Delays (us)
 SBD 0.606413
 MBD -0.005605
 Fringe rate (Hz)
 -0.820447
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

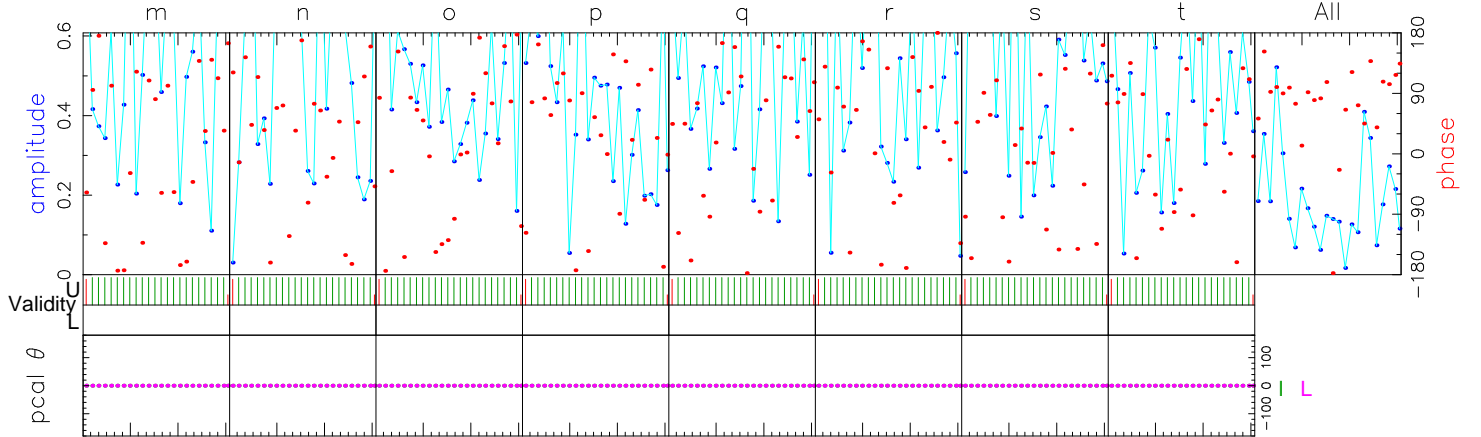


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.51
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:180020
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	115.8	62.6	124.0	99.0	106.2	89.5	91.3	86.0	Phase	95.1
	0.1	0.3	0.2	0.3	0.3	0.3	0.1	0.2	Ampl.	0.2
	31.3	14.7	458.2	501.7	364.1	434.8	97.2	16.4	Sbd box	412.2
U/L	351/0	351/0	351/0	351/0	351/0	351/0	351/0	351/0	APs used	
I	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
I:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
L	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	1.03249829773E+04		Apriori delay (usec)		1.03243792069E+04		Resid mbdelay (usec)		-5.60460E-03	+/- 2.0E-04
Sband delay (usec)	1.03249856204E+04		Apriori clock (usec)		-8.0813351E+00		Resid sbdelay (usec)		6.06413E-01	+/- 1.6E-03
Phase delay (usec)	1.03243792100E+04		Apriori clockrate (us/s)		1.0208587E-07		Resid phdelay (usec)		3.06576E-06	+/- 6.8E-07
Delay rate (us/s)	-8.76374980372E-01		Apriori rate (us/s)		-8.76365455791E-01		Resid rate (us/s)		-9.52458E-06	+/- 6.5E-09
Total phase (deg)	53.2		Apriori accel (us/s/s)		-5.40162955711E-05		Resid phase (deg)		95.1	+/- 21.1

ph/seg (deg) 44.2 51.6 Search (1024X32) 0.146 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 85.8 90.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 20.8 29.8 Inc. seg. avg. 0.188 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 35.6 52.0 Inc. frq. avg. 0.187 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
 I: az 139.8 el 48.9 pa -31.4 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 4994.687 2025.291 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//L..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//L.W.310.3MP2MB

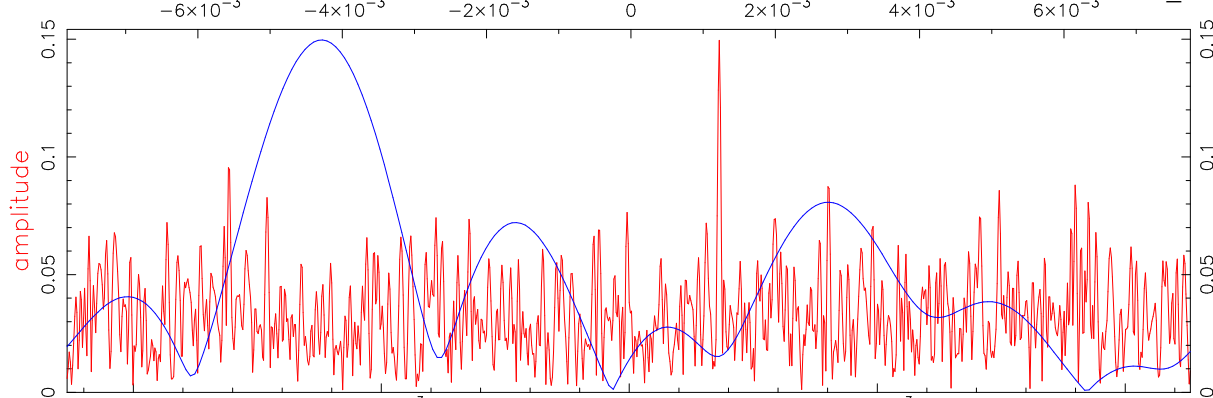
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, Ln

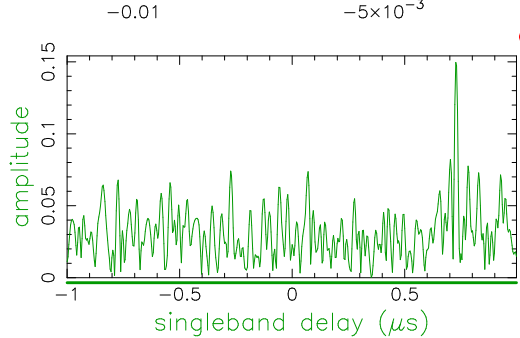
JCMT - VLBA_NL, fgroup W, pol LL

multiband delay (μ s)

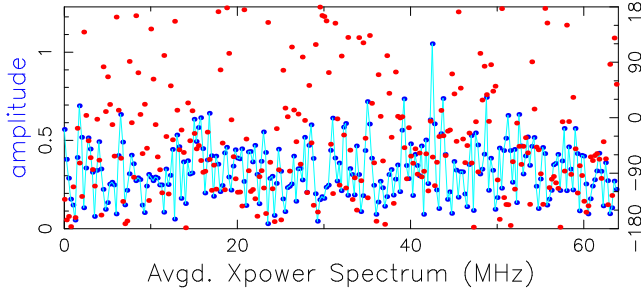


Fringe quality 0

SNR 5.6
 Int time 178.864
 Amp 0.154
 Phase 86.7
 PFD 9.5e-01
 Delays (us)
 SBD 0.728225
 MBD -0.004248
 Fringe rate (Hz)
 0.156746
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

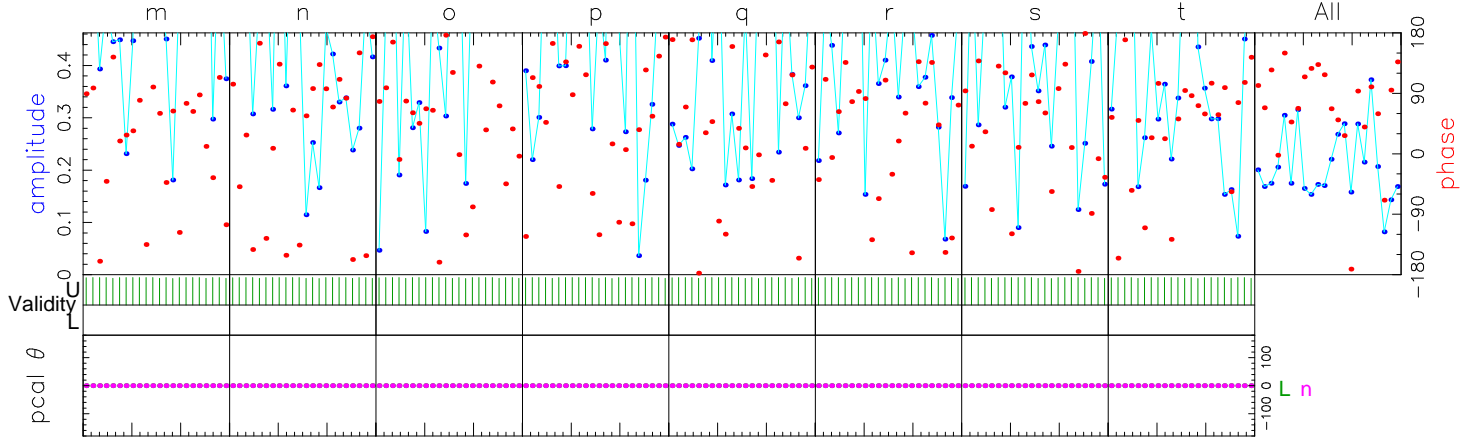


delay rate (ns/s)



Exp. c241b
 Yr:day 1234
 Start 2024:111
 Stop 2024:040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175952
 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		443.4
L	0	0	0	0	0	0	0	0	Phase	86.7
n	0	0	0	0	0	0	0	0	Ampl.	0.1
L:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	
L:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
L	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
L	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	PC phase	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Mani PC	
									PC amp	
									Chan ids	
									Tracks	
									Chan ids	
									Tracks	

Group delay (usec) (SBD)	-1.03354919694E+04	Apriori delay (usec)	-1.03362220967E+04	Resid mbdelay (usec)	-4.24771E-03	+/-	1.9E-04
Sband delay (usec)	-1.03354938722E+04	Apriori clock (usec)	6.8321228E-02	Resid sbdelay (usec)	7.28225E-01	+/-	1.5E-03
Phase delay (usec)	-1.03362220939E+04	Apriori clockrate (us/s)	-6.3334689E-07	Resid phdelay (usec)	2.79616E-06	+/-	6.6E-07
Delay rate (us/s)	1.20111979779E+00	Apriori rate (us/s)	1.20111797812E+00	Resid rate (us/s)	1.81967E-06	+/-	6.4E-09
Total phase (deg)	-61.9	Apriori accel (us/s/s)	5.37296115542E-05	Resid phase (deg)	86.7	+/-	20.5

ph/seg (deg)	55.2	Theor.	48.2	Amplitude	0.154 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	58.1		84.1	Search (1024X32)	0.148	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	32.1		29.0	Inc. seg. avg.	0.157	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	29.9		50.7	Inc. frq. avg.	0.148	Data rate(Mb/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	ion window (TEC)	0.00	0.00

L: az 93.6 el 15.4 pa -70.0 n: az 164.0 el 49.1 pa -11.6 u,v (fr/asec) -6855.949 -2745.989 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/Ln..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/Ln.W.206.3MP2MB

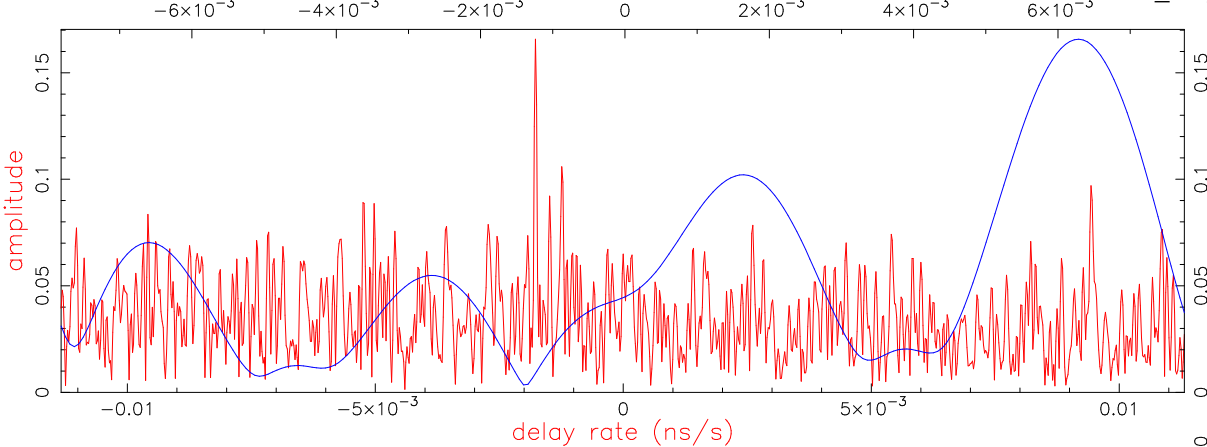
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, Ln

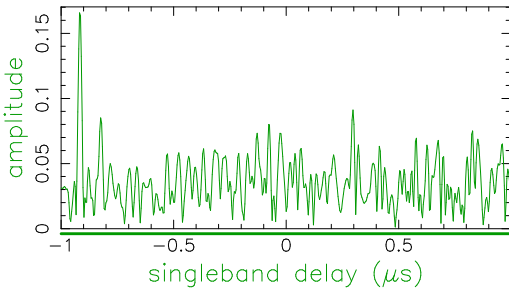
JCMT - VLBA_NL, fgroup W, pol RR

multiband delay (μ s)

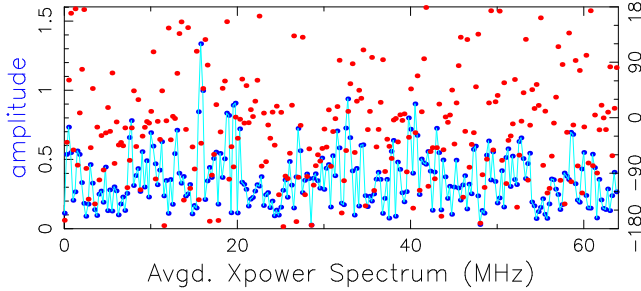


Fringe quality 0

SNR 6.2
 Int time 178.864
 Amp 0.170
 Phase 150.3
 PFD 8.8e-02
 Delays (us)
 SBD -0.916285
 MBD 0.006292
 Fringe rate (Hz)
 -0.152308
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

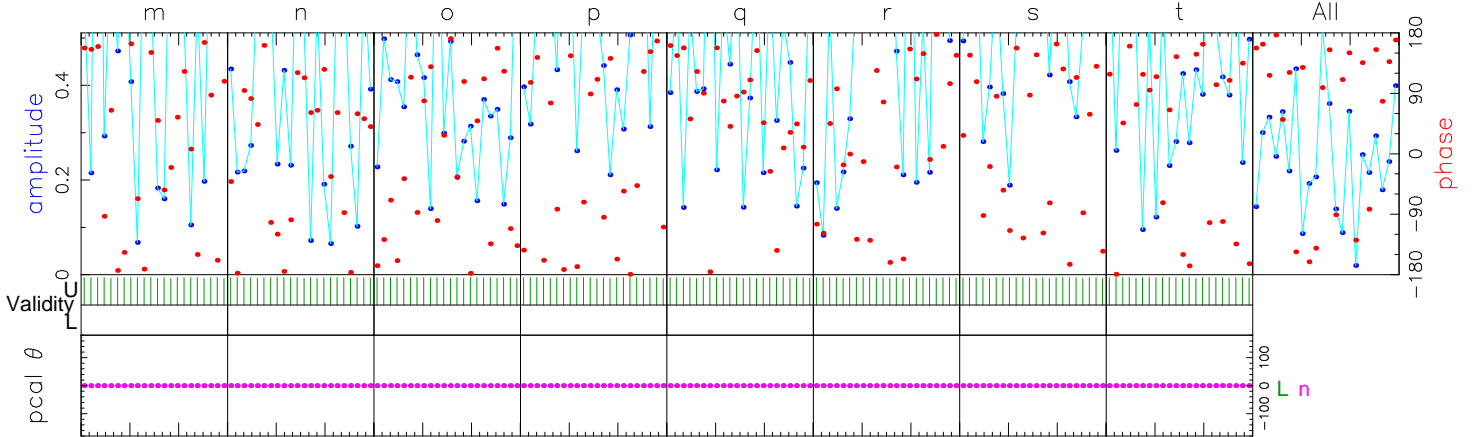


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175954
 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		
L	0	0	0	0	0	0	0	0		
n	0	0	0	0	0	0	0	0		
L:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
L:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
L	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
L	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec) (SBD)	-1.03371376794E+04	Apriori delay (usec)	-1.03362220967E+04	Resid mbdelay (usec)	6.29234E-03	+/-	1.8E-04
Sband delay (usec)	-1.03371383812E+04	Apriori clock (usec)	6.8321228E-02	Resid sbdelay (usec)	-9.16285E-01	+/-	1.4E-03
Phase delay (usec)	-1.03362220919E+04	Apriori clockrate (us/s)	-6.3334689E-07	Resid phdelay (usec)	4.84675E-06	+/-	6.0E-07
Delay rate (us/s)	1.20111620997E+00	Apriori rate (us/s)	1.20111797812E+00	Resid rate (us/s)	-1.76815E-06	+/-	5.8E-09
Total phase (deg)	1.7	Apriori accel (us/s/s)	5.37296115542E-05	Resid phase (deg)	150.3	+/-	18.6

ph/seg (deg)	57.2	Theor.	43.6	Amplitude	0.170 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	86.9		76.0	Search (1024X32)	0.162	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	39.7		26.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	32.3		45.9	Inc. seg. avg.	0.198	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.176	Data rate(Mb/s): 2048				

L: az 93.6 el 15.4 pa -70.0 n: az 164.0 el 49.1 pa -11.6 u,v (fr/asec) -6855.949 -2745.989 simultaneous interpolator

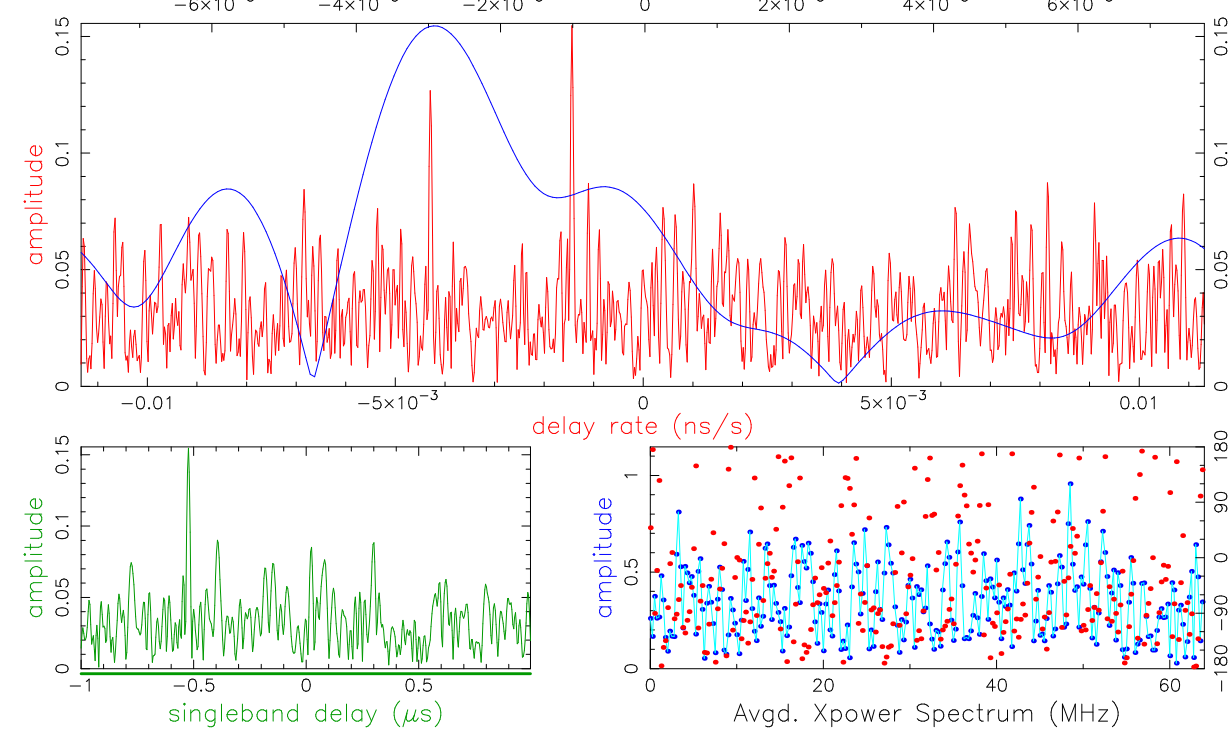
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/Ln..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/Ln.W.215.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

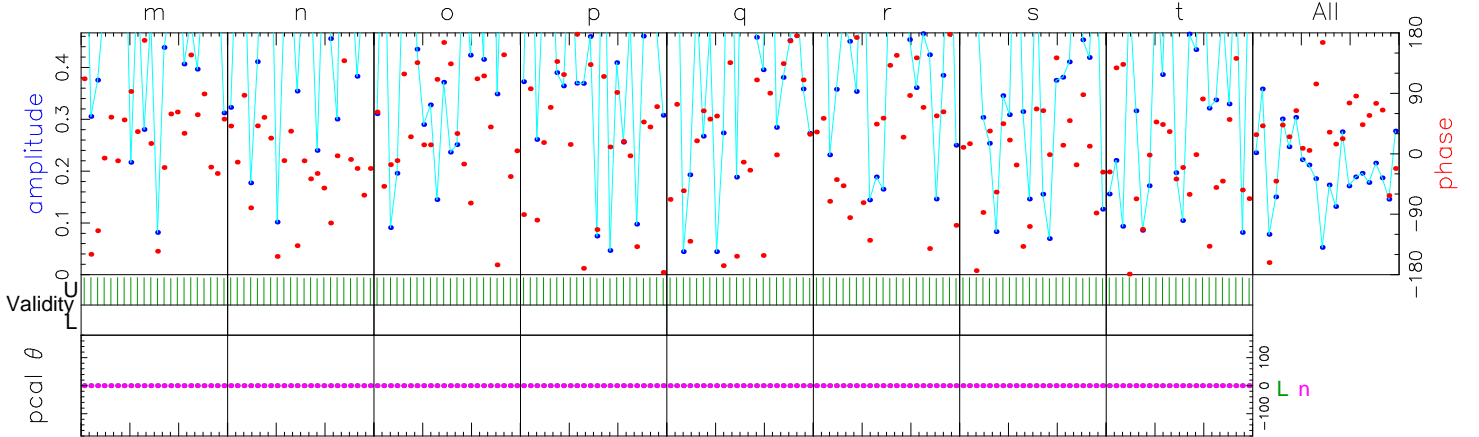
3C273.3MP2MB, No0707, Ln

JCMT - VLBA_NL, fgroup W, pol LR



Fringe quality 0
 SNR 5.7
 Int time 178.864
 Amp 0.156
 Phase 37.4
 PFD 8.5e-01
 Delays (us)
 SBD -0.523483
 MBD -0.002921
 Fringe rate (Hz)
 -0.123715
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175956
 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		
L	0	0	0	0	0	0	0	0	APs used	
n	0	0	0	0	0	0	0	0	PC freqs	
L:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
L:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
L	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
L	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	-1.03367406423E+04								Resid mbdelay (usec)	-2.92057E-03 +/- 1.9E-04
Sband delay (usec)	-1.03367455795E+04								Resid sbdelay (usec)	-5.23483E-01 +/- 1.5E-03
Phase delay (usec)	-1.03362220955E+04								Resid phdelay (usec)	1.20572E-06 +/- 6.5E-07
Delay rate (us/s)	1.20111654191E+00								Resid rate (us/s)	-1.43621E-06 +/- 6.3E-09
Total phase (deg)			-111.2						Resid phase (deg)	37.4 +/- 20.3
	RMS	Theor.	Amplitude	0.156 +/- 0.028					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	59.1	47.5	Search (1024X32)	0.152					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	55.8	83.0	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	38.9	28.7	Inc. seg. avg.	0.152					Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.011 0.011
amp/frq (%)	48.4	50.0	Inc. frq. avg.	0.163					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
L: az 93.6 el 15.4 pa -70.0			n: az 164.0 el 49.1 pa -11.6						u,v (fr/asec) -6855.949 -2745.989	simultaneous interpolator
Control file: cf_1234_gmva			Input file: /Exps/c241b/v2/3mm/1234/No0707/Ln..3MP2MB						Output file: /Exps/c241b/v2/3mm/1234/No0707/Ln.W.224.3MP2MB	

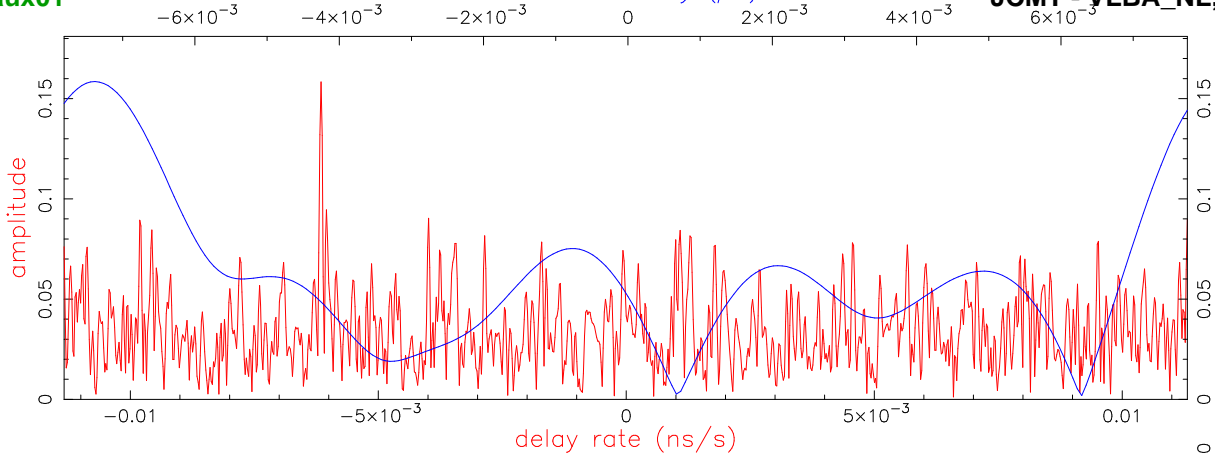
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, Ln

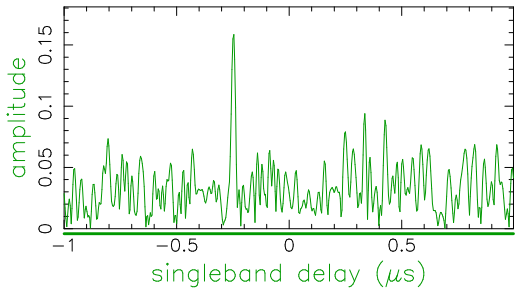
JCMT - VLBA_NL, fgroup W, pol RL

multiband delay (μ s)

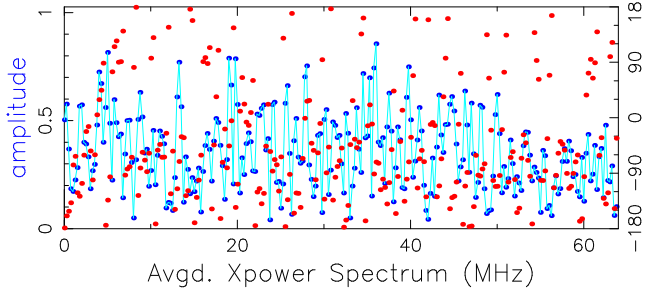


Fringe quality 0

SNR 5.8
Int time 178.864
Amp 0.181
Phase 22.5
PFD 4.7e-01
Delays (us)
SBD -0.247451
MBD -0.007435
Fringe rate (Hz)
-0.530544
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

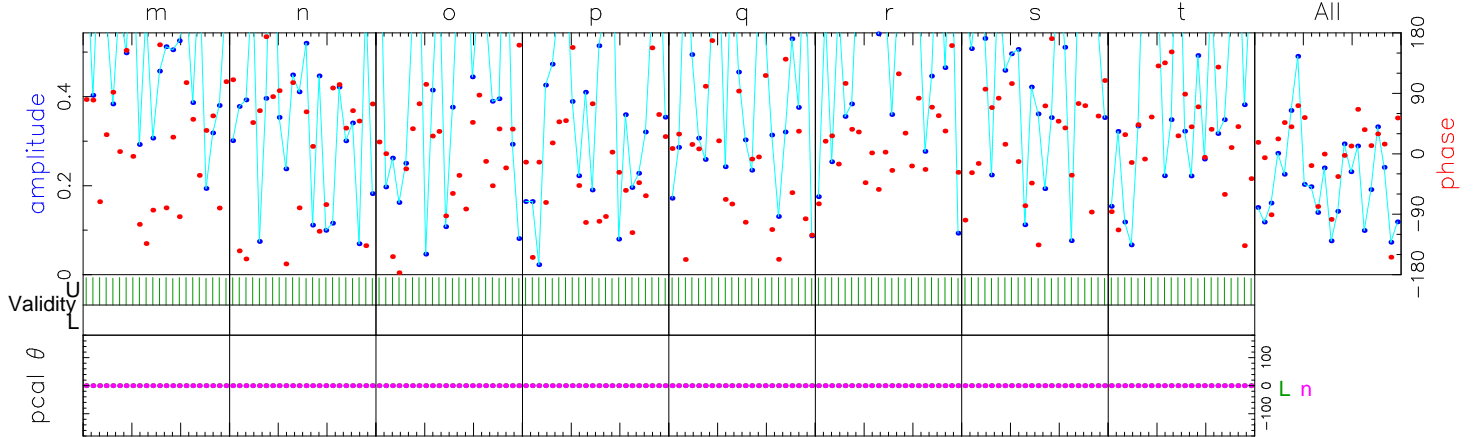


delay rate (ns/s)



Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 040000.00
Stop 040300.22
FRT 040130.00
Corr/FF/build
2024:361:053129
2025:041:175957
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
	16.0	107.5	8.1	-11.2	-35.0	22.1	37.6	33.7	Phase	22.5
	0.1	0.1	0.3	0.1	0.1	0.4	0.2	0.3	Ampl.	0.2
	15.1	2.4	193.6	418.6	117.3	194.0	204.1	191.8	Sbd box	193.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
L	0	0	0	0	0	0	0	0	PC freqs	
n	0	0	0	0	0	0	0	0	PC freqs	
L:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
L:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
L	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
L	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-1.03364639063E+04	Apriori delay (usec)	-1.03362220967E+04	Resid mbdelay (usec)	-7.43455E-03	+/-	1.9E-04
Sband delay (usec)	-1.03364695477E+04	Apriori clock (usec)	6.8321228E-02	Resid sbdelay (usec)	-2.47451E-01	+/-	1.5E-03
Phase delay (usec)	-1.03362220960E+04	Apriori clockrate (us/s)	-6.3334689E-07	Resid phdelay (usec)	7.26006E-07	+/-	6.3E-07
Delay rate (us/s)	1.20111181903E+00	Apriori rate (us/s)	1.20111797812E+00	Resid rate (us/s)	-6.15909E-06	+/-	6.1E-09
Total phase (deg)	-126.1	Apriori accel (us/s/s)	5.37296115542E-05	Resid phase (deg)	22.5	+/-	19.6

ph/seg (deg)	61.5	Theor.	46.0	Amplitude	0.181 +/- 0.031	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	70.5		80.2	Search (1024X32)	0.157	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	45.2		27.7	Inc. seg. avg.	0.181	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	54.6		48.4	Inc. frq. avg.	0.184	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	ion window (TEC)	0.00	0.00

L: az 93.6 el 15.4 pa -70.0 n: az 164.0 el 49.1 pa -11.6 u,v (fr/asec) -6855.949 -2745.989 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/Ln..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/Ln.W.234.3MP2MB

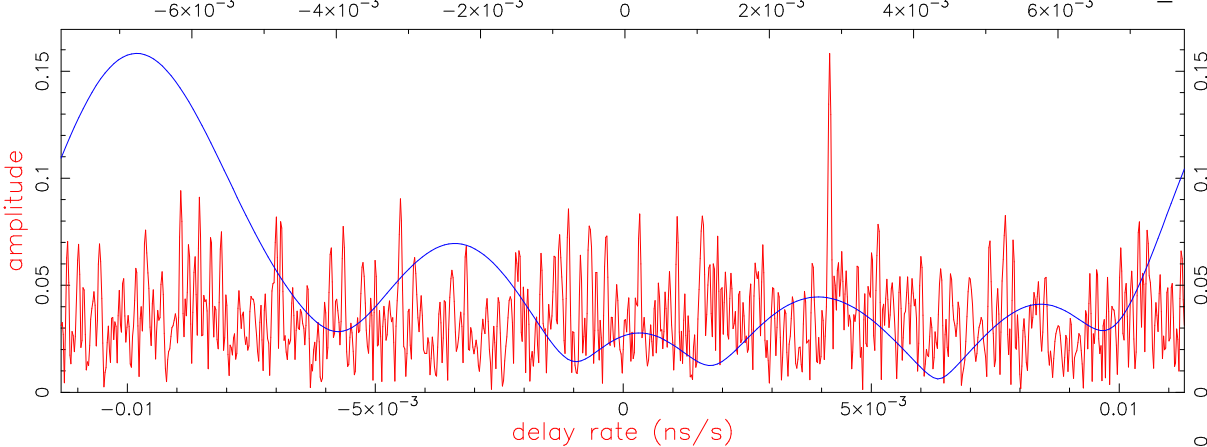
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, Lo

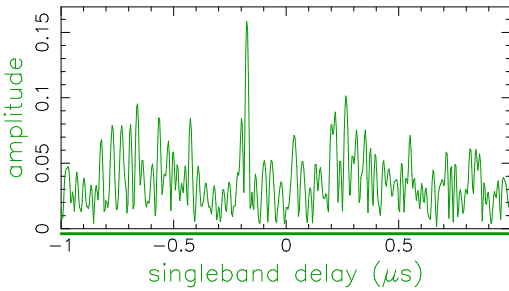
JCMT - VLBA_OV, fgroup W, pol LL

multiband delay (μ s)

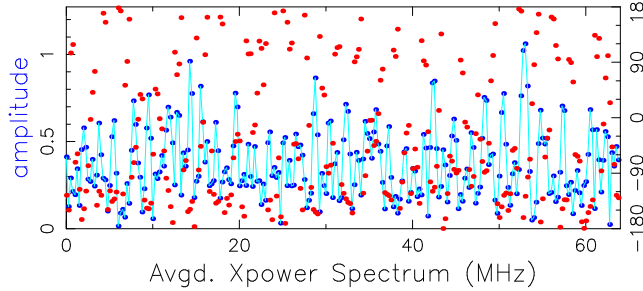


Fringe quality 0

SNR 5.8
 Int time 175.885
 Amp 0.170
 Phase 107.4
 PFD 5.4e-01
 Delays (us)
 SBD -0.174451
 MBD -0.006746
 Fringe rate (Hz)
 0.358359
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

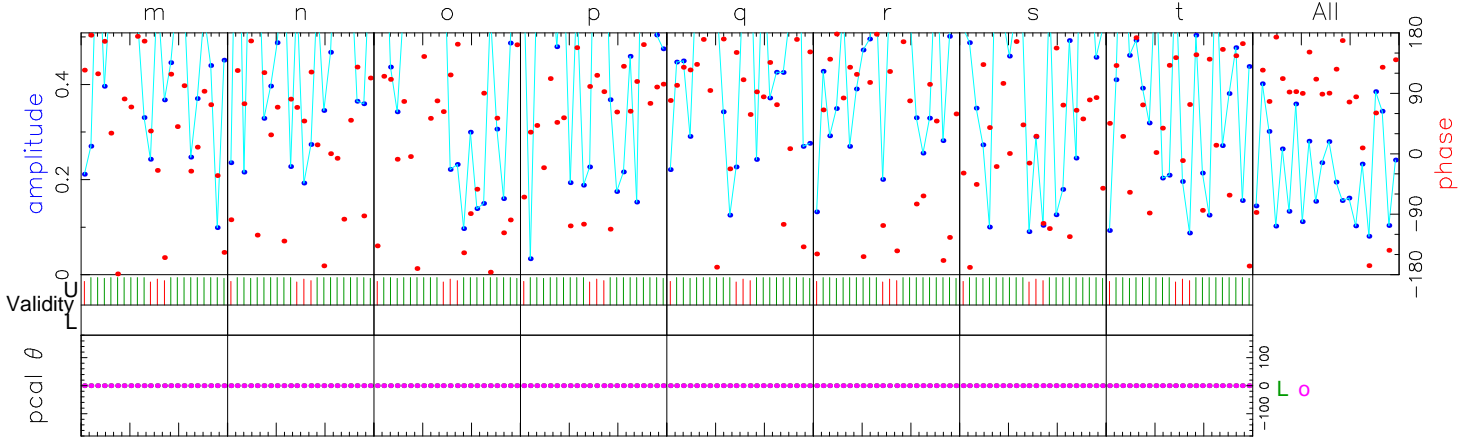


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175952
 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



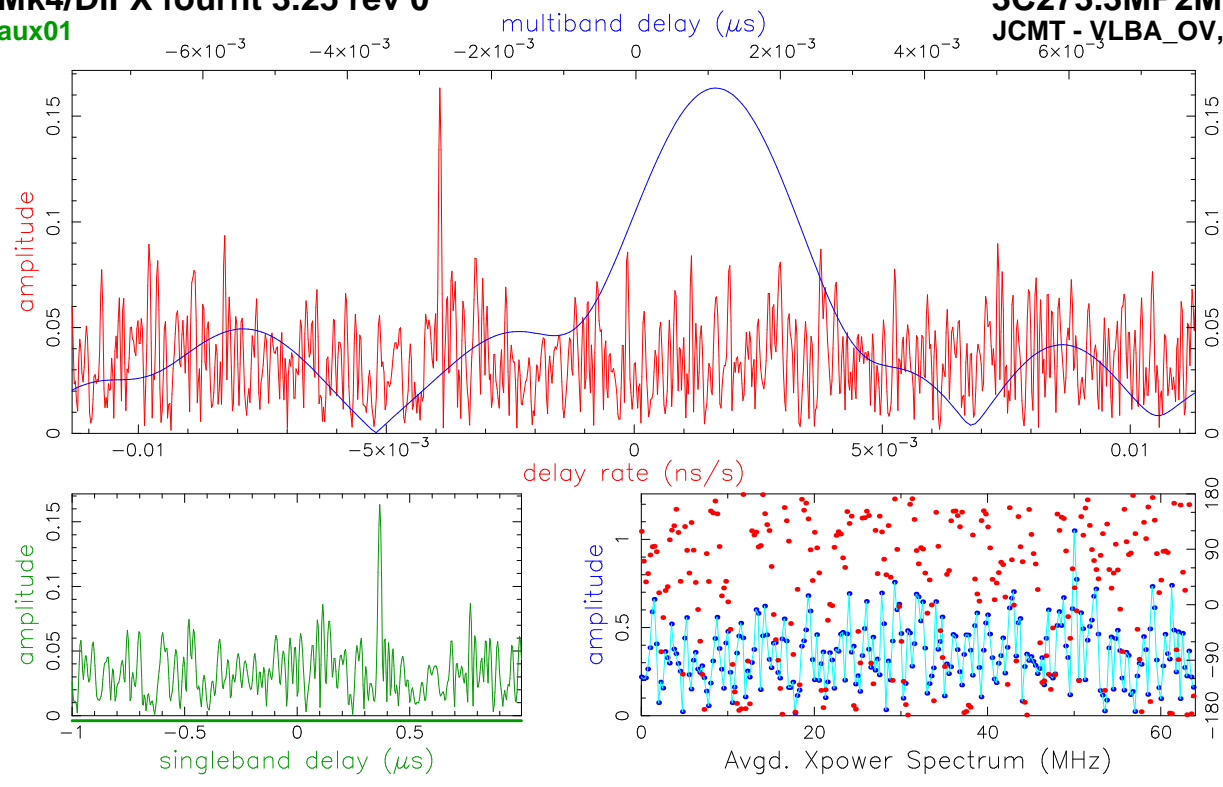
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	101.9	96.0	117.0	95.3	126.8	135.5	38.1	89.1	Phase	107.4
	0.2	0.1	0.2	0.3	0.3	0.2	0.1	0.1	Ampl.	0.2
	402.8	148.0	201.4	212.8	444.8	213.4	347.4	479.1	Sbd box	212.3
U/L	348/0	348/0	348/0	348/0	348/0	348/0	348/0	348/0	APs used	
L	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
L:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
L:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
L	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
L	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-8.26285772868E+03	Apriori delay (usec)	-8.26267910774E+03	Resid mbdelay (usec)	-6.74595E-03	+/-	1.9E-04
Sband delay (usec)	-8.26285355899E+03	Apriori clock (usec)	-2.5272251E+01	Resid sbdelay (usec)	-1.74451E-01	+/-	1.5E-03
Phase delay (usec)	-8.26267910427E+03	Apriori clockrate (us/s)	-8.1735898E-07	Resid phdelay (usec)	3.46486E-06	+/-	6.4E-07
Delay rate (us/s)	6.63492692985E-01	Apriori rate (us/s)	6.63488532789E-01	Resid rate (us/s)	4.16020E-06	+/-	6.2E-09
Total phase (deg)	-15.1	Apriori accel (us/s/s)	4.27990844626E-05	Resid phase (deg)	107.4	+/-	19.7

ph/seg (deg)	57.2	Theor.	46.0	Amplitude	0.170 +/- 0.029	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	70.9	Search (1024X32)	0.155	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	33.4	Inc. seg. avg.	0.173	Inc. frq. avg.	0.165	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	48.8	Inc. frq. avg.	0.165			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

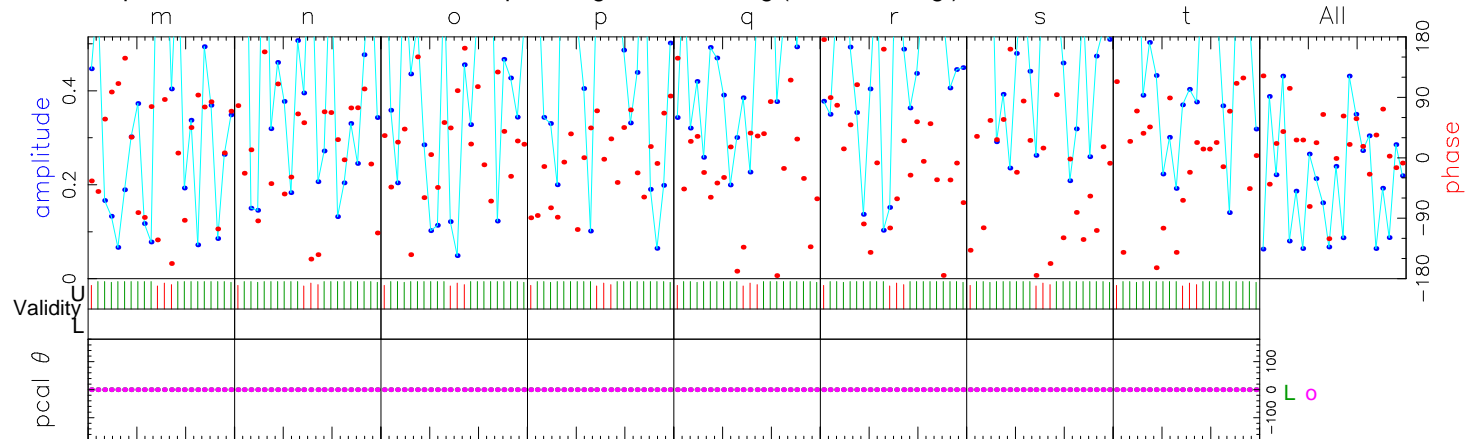
L: az 93.6 el 15.4 pa -70.0 o: az 127.0 el 40.9 pa -39.4 u,v (fr/asec) -3780.640 -2235.688 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/Lo..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/Lo.W.205.3MP2MB



Fringe quality 0
SNR 5.9
Int time 175.885
Amp 0.172
Phase 13.9
PFD 3.3e-01
Delays (us)
SBD 0.367176
MBD 0.001103
Fringe rate (Hz)
-0.337816
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c241b
Exper # 1234
Yr:day 2024:111
Start 040000.00
Stop 040300.22
FRT 040130.00
Corr/FF/build
2024:361:053129
2025:041:175954
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	368.7	405.8	354.8	350.7	106.6	274.8	54.5	507.6		
L	0	0	0	0	0	0	0	0		
o	0	0	0	0	0	0	0	0		
L	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
L	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec) (SBD)	-8.26231862949E+03								1.10324E-03	+/- 1.8E-04
Sband delay (usec)	-8.26231193149E+03								3.67176E-01	+/- 1.5E-03
Phase delay (usec)	-8.26267910729E+03								4.49744E-07	+/- 6.2E-07
Delay rate (us/s)	6.63484611086E-01								-3.92170E-06	+/- 6.1E-09
Total phase (deg)			-108.6						13.9	+/- 19.3
ph/seg (deg)	52.0	45.1								
amp/seg (%)	78.6	78.7								
ph/frq (deg)	22.8	27.4								
amp/frq (%)	38.9	47.8								
L: az 93.6 el 15.4 pa -70.0	o: az 127.0 el 40.9 pa -39.4		u,v (fr/asec) -3780.640 -2235.688		simultaneous interpolator					
Control file: cf_1234_gmva	Input file: /Exps/c241b/v2/3mm/1234/No0707/Lo..3MP2MB		Output file: /Exps/c241b/v2/3mm/1234/No0707/Lo.W.214.3MP2MB							

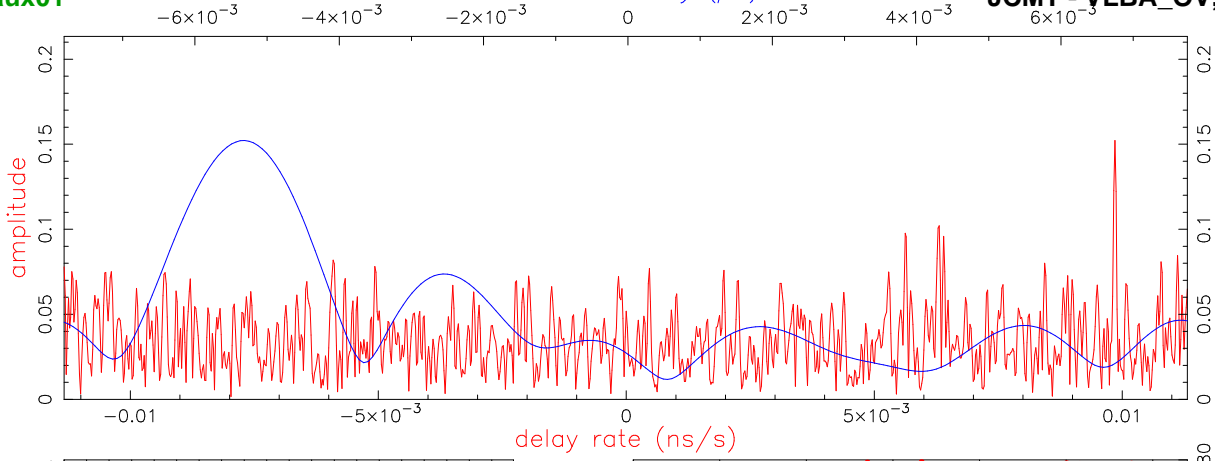
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, Lo

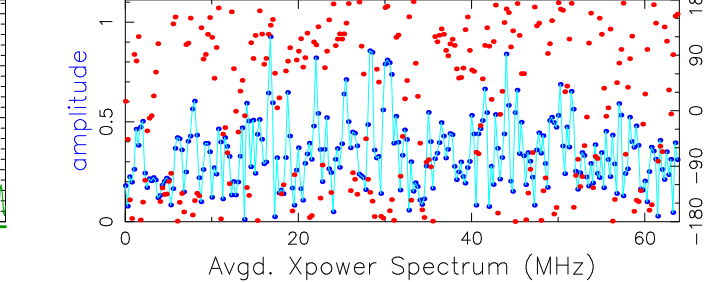
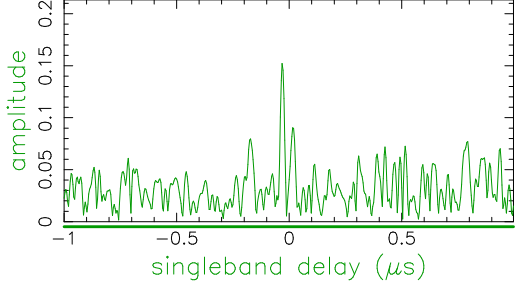
JCMT - VLBA_OV, fgroup W, pol LR

multiband delay (μ s)



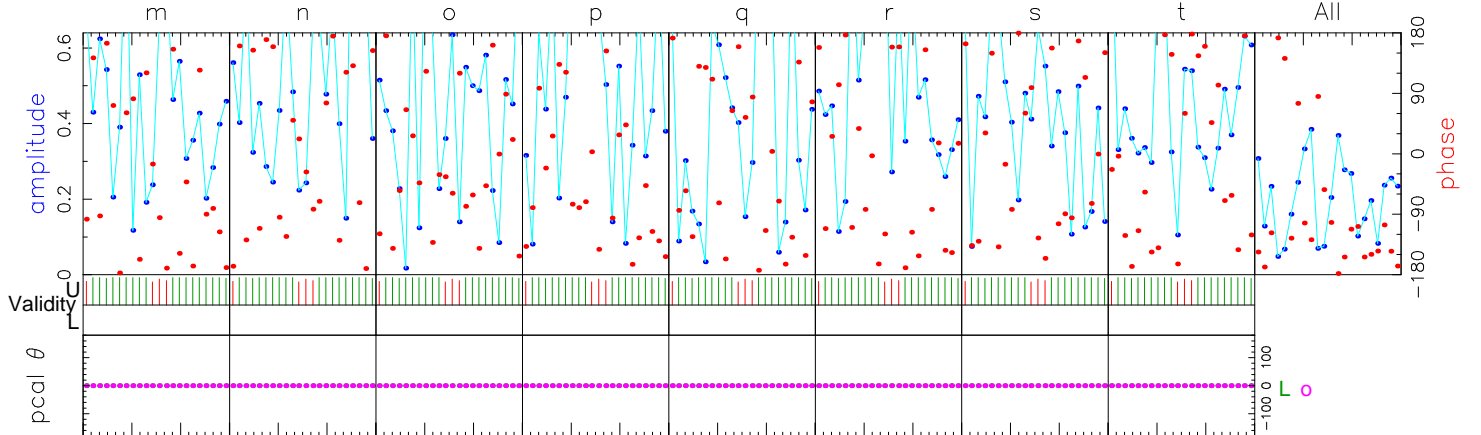
Fringe quality 0

SNR 5.5
 Int time 175.885
 Amp 0.213
 Phase -139.1
 PFD 9.7e-01
 Delays (us)
 SBD -0.030386
 MBD -0.005326
 Fringe rate (Hz)
 0.850755
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175956
 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				
	-158.6	-146.8	-98.8	-96.1	-163.7	-131.5	-153.2	-145.9	Phase	-139.1				
	0.3	0.3	0.1	0.2	0.2	0.3	0.2	0.2	Ampl.	0.2				
	241.7	455.9	236.6	376.8	434.5	378.5	19.2	307.6	Sbd box	249.2				
U/L	348/0	348/0	348/0	348/0	348/0	348/0	348/0	348/0	APs used					
L	0	0	0	0	0	0	0	0	PC freqs					
o	0	0	0	0	0	0	0	0	PC freqs					
L:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
L:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC					
L	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
o	1000	1000	1000	1000	1000	1000	1000	1000						
L	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Chan ids					
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks					
									Tracks					
Group delay (usec) (SBD)	-8.26271568365E+03								Apriori delay (usec)	-8.26267910774E+03	Resid mbdelay (usec)	-5.32592E-03	+/-	2.0E-04
Sband delay (usec)	-8.26270949374E+03								Apriori clock (usec)	-2.5272251E+01	Resid sbdelay (usec)	-3.03860E-02	+/-	1.6E-03
Phase delay (usec)	-8.26267911222E+03								Apriori clockrate (us/s)	-8.1735898E-07	Resid phdelay (usec)	-4.48411E-06	+/-	6.7E-07
Delay rate (us/s)	6.63498409215E-01								Apriori rate (us/s)	6.63488532789E-01	Resid rate (us/s)	9.87643E-06	+/-	6.5E-09
Total phase (deg)			-261.6						Apriori accel (us/s/s)	4.27990844626E-05	Resid phase (deg)	-139.1	+/-	20.7

ph/seg (deg) 54.7 48.2 Search (1024X32) 0.149 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.8 84.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 28.4 29.3 Inc. seg. avg. 0.207 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 27.4 51.1 Inc. frq. avg. 0.207 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 L: az 93.6 el 15.4 pa -70.0 o: az 127.0 el 40.9 pa -39.4 u,v (fr/asec) -3780.640 -2235.688 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/Lo..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/Lo.W.223.3MP2MB

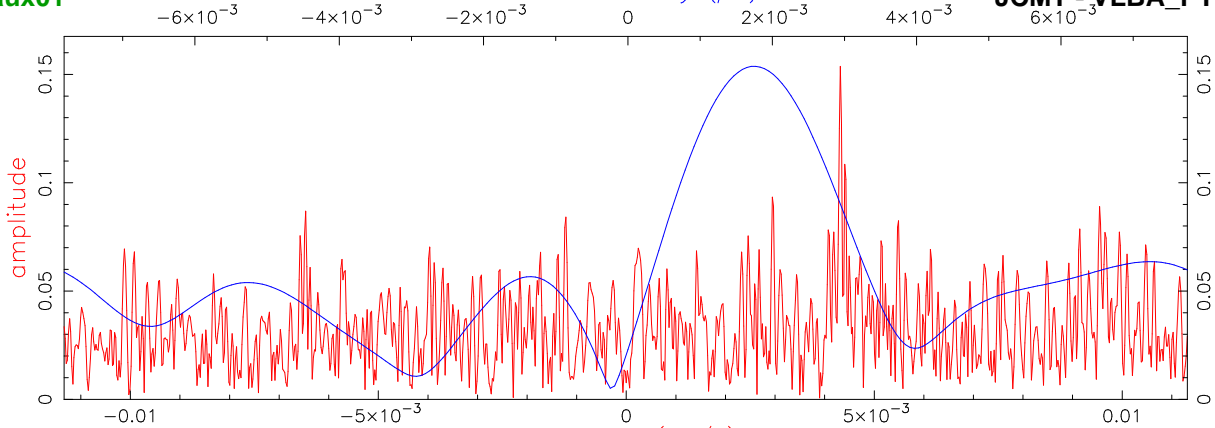
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, Lp

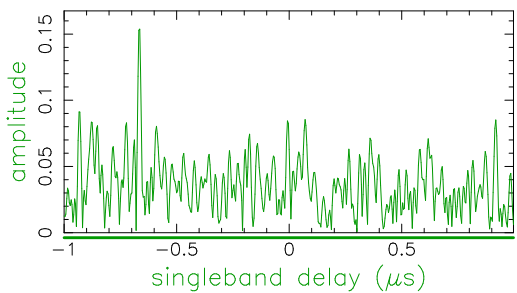
JCMT - VLBA_PT, fgroup W, pol LL

multiband delay (μ s)

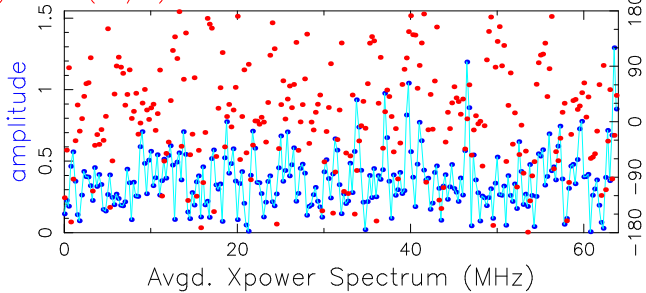


Fringe quality 0

SNR 5.8
 Int time 179.764
 Amp 0.168
 Phase -117.0
 PFD 6.0e-01
 Delays (us)
 SBD -0.665931
 MBD 0.001735
 Fringe rate (Hz)
 0.371569
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

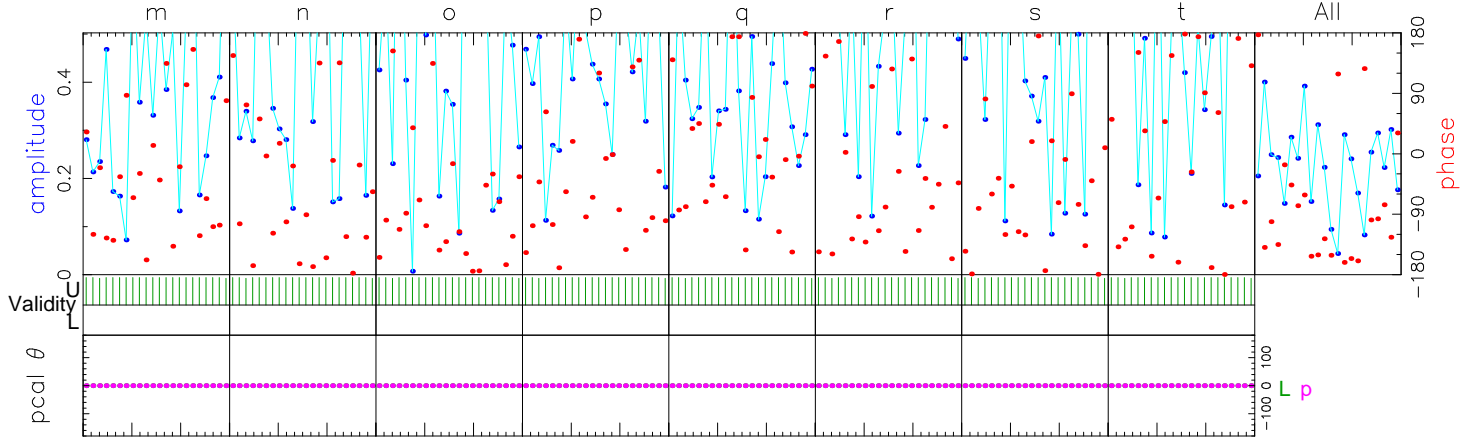


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175956
 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
	-109.4	-132.9	-126.2	-98.9	-75.7	-136.5	-74.0	-155.4	Phase	-117.0
	0.1	0.1	0.3	0.2	0.1	0.2	0.2	0.2	Ampl.	0.2
	276.5	244.9	87.0	404.4	202.9	510.8	323.0	479.0	Sbd box	86.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
L	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
L:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
L:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
L	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
L	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-1.03604443866E+04	Apriori delay (usec)	-1.03597742463E+04	Resid mbdelay (usec)	1.73474E-03	+/-	1.9E-04
Sband delay (usec)	-1.03604401775E+04	Apriori clock (usec)	-5.9196396E+00	Resid sbdelay (usec)	-6.65931E-01	+/-	1.5E-03
Phase delay (usec)	-1.03597742501E+04	Apriori clockrate (us/s)	-7.1478392E-07	Resid phdelay (usec)	-3.77415E-06	+/-	6.4E-07
Delay rate (us/s)	8.28979158889E-01	Apriori rate (us/s)	8.28974845340E-01	Resid rate (us/s)	4.31355E-06	+/-	6.1E-09
Total phase (deg)	-324.4	Apriori accel (us/s/s)	5.42093654789E-05	Resid phase (deg)	-117.0	+/-	19.8

ph/seg (deg)	RMS 62.9	Theor. 46.5	Amplitude Search (1024X32)	0.168 +/- 0.029	0.152	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	72.1	81.1	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	32.0	28.0	Inc. seg. avg.	0.183	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 (%)	49.1	48.9	Inc. frq. avg.	0.163	Data rate(Mb/s): 2048	ion window (TEC)	0.00	0.00	0.00	

L: az 93.6 el 15.4 pa -70.0 p: az 136.3 el 49.0 pa -34.7 u, v (fr/asec) -4722.982 -1838.745 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/Lp..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/Lp.W.225.3MP2MB

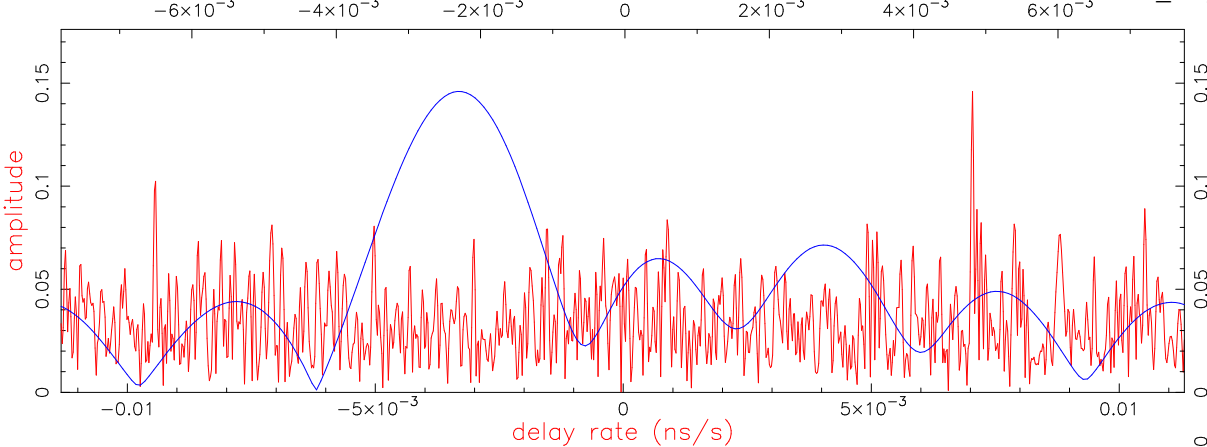
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, Lp

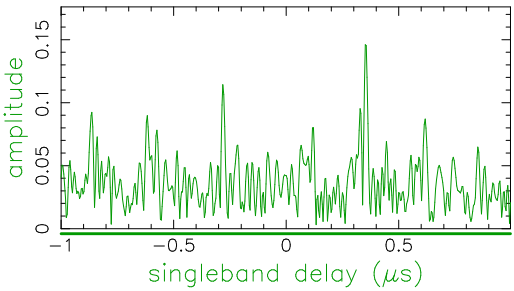
JCMT - VLBA_PT, fgroup W, pol RR

multiband delay (μ s)

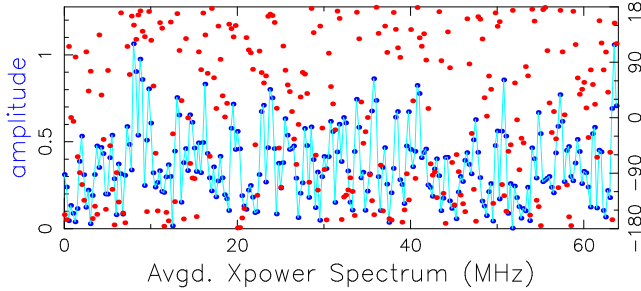


Fringe quality 0

SNR 5.5
 Int time 179.764
 Amp 0.176
 Phase -61.4
 PFD 9.9e-01
 Delays (us)
 SBD 0.353394
 MBD -0.002306
 Fringe rate (Hz)
 0.608383
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

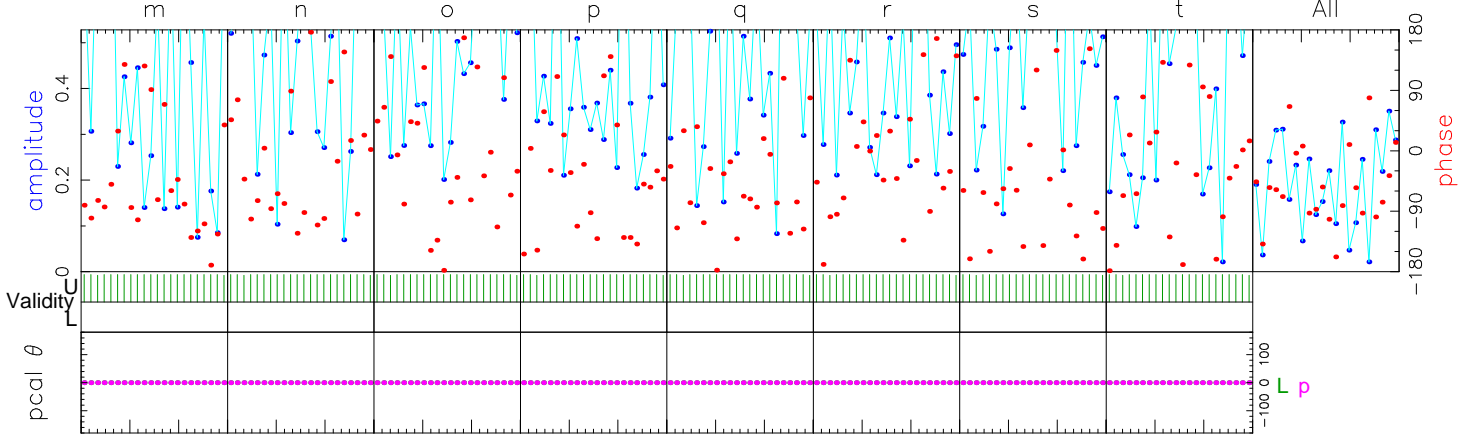


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175958
 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
	-75.2	-49.7	-29.0	-74.2	-58.9	-37.6	-100.1	-11.1	Phase	-61.4
	0.3	0.2	0.1	0.1	0.2	0.1	0.3	0.1	Ampl.	0.2
	346.0	470.9	499.0	474.2	75.6	286.2	414.4	218.2	Sbd box	347.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
L	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
L:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
L:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
L	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
L	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	-1.03594171774E+04		Apriori delay (usec)		-1.03597742463E+04		Resid mbdelay (usec)		-2.30607E-03	+/- 2.0E-04
Sband delay (usec)	-1.03594208525E+04		Apriori clock (usec)		-5.9196396E+00		Resid sbdelay (usec)		3.53394E-01	+/- 1.6E-03
Phase delay (usec)	-1.03597742483E+04		Apriori clockrate (us/s)		-7.1478392E-07		Resid phdelay (usec)		-1.98064E-06	+/- 6.8E-07
Delay rate (us/s)	8.28981908063E-01		Apriori rate (us/s)		8.28974845340E-01		Resid rate (us/s)		7.06272E-06	+/- 6.5E-09
Total phase (deg)			Apriori accel (us/s/s)		5.42093654789E-05		Resid phase (deg)		-61.4	+/- 20.9

ph/seg (deg) 59.2 49.1 Search (1024X32) 0.145 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 73.5 85.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 32.0 29.6 Inc. seg. avg. 0.169 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.8 51.7 Inc. frq. avg. 0.168 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 L: az 93.6 el 15.4 pa -70.0 p: az 136.3 el 49.0 pa -34.7 u,v (fr/asec) -4722.982 -1838.745 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707/Lp..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707/Lp.W.235.3MP2MB

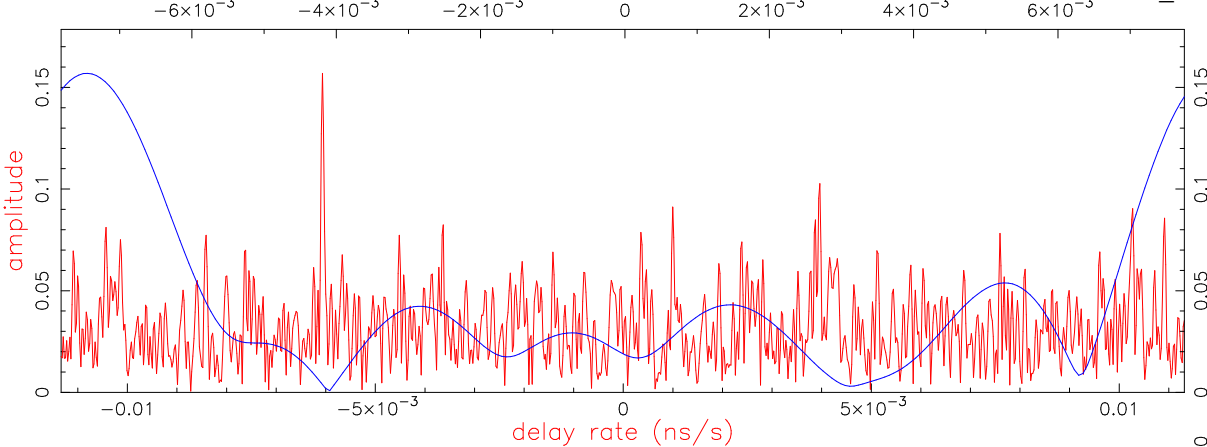
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, Lp

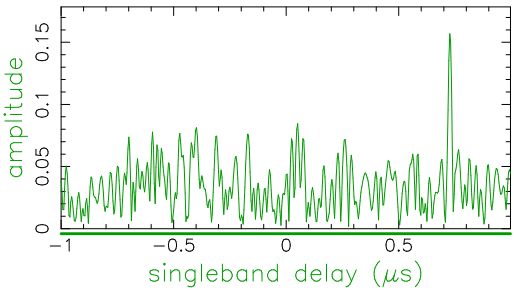
JCMT - VLBA_PT, fgroup W, pol LR

multiband delay (μ s)

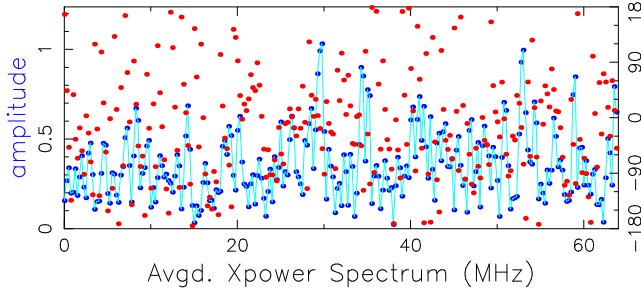


Fringe quality 0

SNR 5.8
 Int time 179.764
 Amp 0.179
 Phase 164.7
 PFD 5.7e-01
 Delays (us)
 SBD 0.727702
 MBD -0.007433
 Fringe rate (Hz)
 -0.523476
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

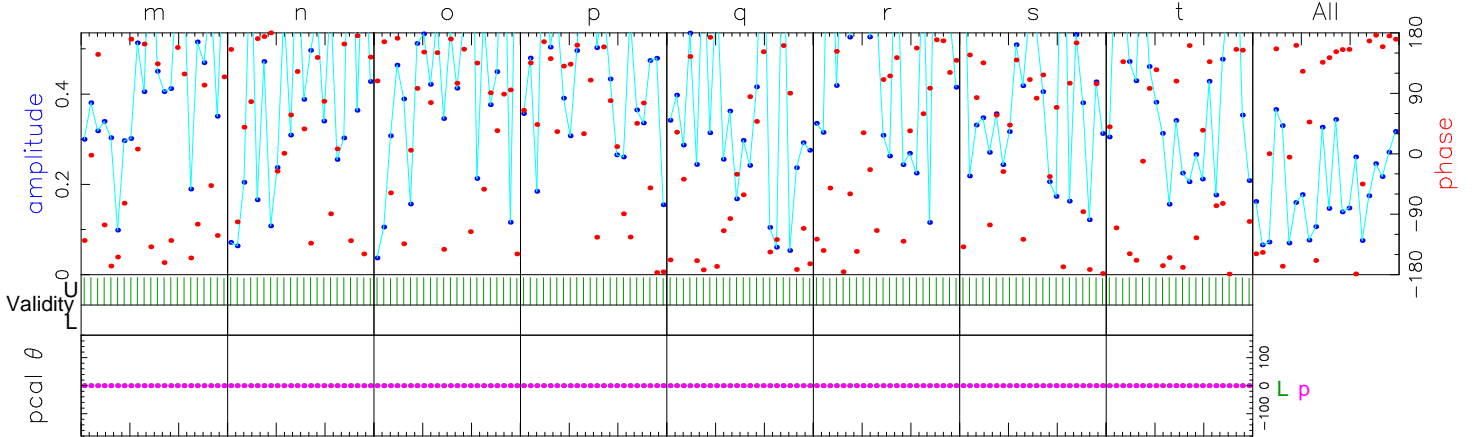


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:180000
 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
	-169.5	160.7	157.1	124.7	-177.1	171.7	151.9	176.7	Phase	164.7
	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
	269.6	142.7	441.2	301.7	161.8	298.2	58.1	201.2	Sbd box	443.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
L	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
L:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
L:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
L	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
L	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec) (SBD)	-1.03590473047E+04					-1.03597742463E+04			Resid mbdelay (usec)	-7.43335E-03 +/- 1.9E-04
Sband delay (usec)	-1.03590465438E+04					-5.9196396E+00			Resid sbdelay (usec)	7.27702E-01 +/- 1.5E-03
Phase delay (usec)	-1.03597742410E+04					-7.1478392E-07			Resid phdelay (usec)	5.31208E-06 +/- 6.4E-07
Delay rate (us/s)	8.28968768298E-01					8.28974845340E-01			Resid rate (us/s)	-6.07704E-06 +/- 6.1E-09
Total phase (deg)			-42.7			5.42093654789E-05			Resid phase (deg)	164.7 +/- 19.8
	RMS	Theor.	Amplitude	0.179 +/- 0.031					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	68.3	46.3	Search (1024X32)	0.150					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	65.5	80.9	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	22.4	27.9	Inc. seg. avg.	0.165					Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.011 0.011
amp/frq (%)	13.7	48.8	Inc. frq. avg.	0.168					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
L: az 93.6 el 15.4 pa -70.0			p: az 136.3 el 49.0 pa -34.7			u, v (fr/asec) -4722.982 -1838.745				simultaneous interpolator
Control file: cf_1234_gmva			Input file: /Exps/c241b/v2/3mm/1234/No0707//Lp..3MP2MB			Output file: /Exps/c241b/v2/3mm/1234/No0707//Lp.W.241.3MP2MB				

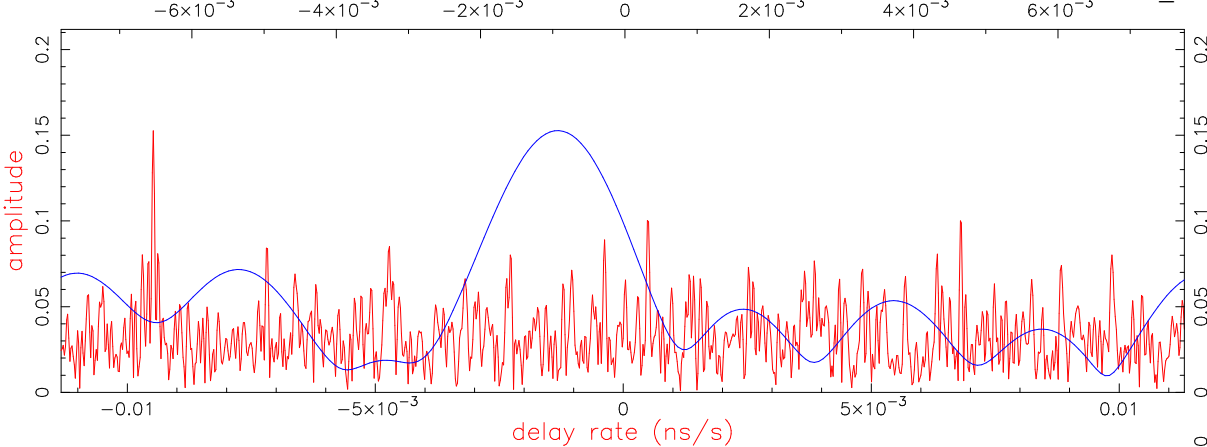
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, Lp

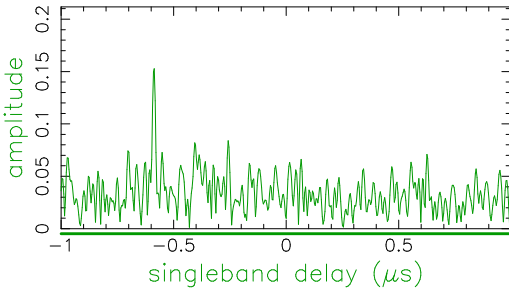
JCMT - VLBA_PT, fgroup W, pol RL

multiband delay (μ s)

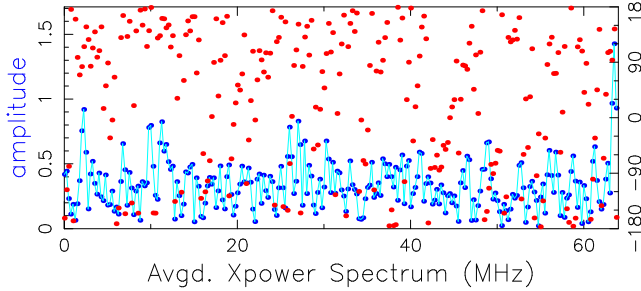


Fringe quality 0

SNR 5.7
 Int time 179.764
 Amp 0.212
 Phase -139.0
 PFD 7.5e-01
 Delays (us)
 SBD -0.587576
 MBD -0.000970
 Fringe rate (Hz)
 -0.817978
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

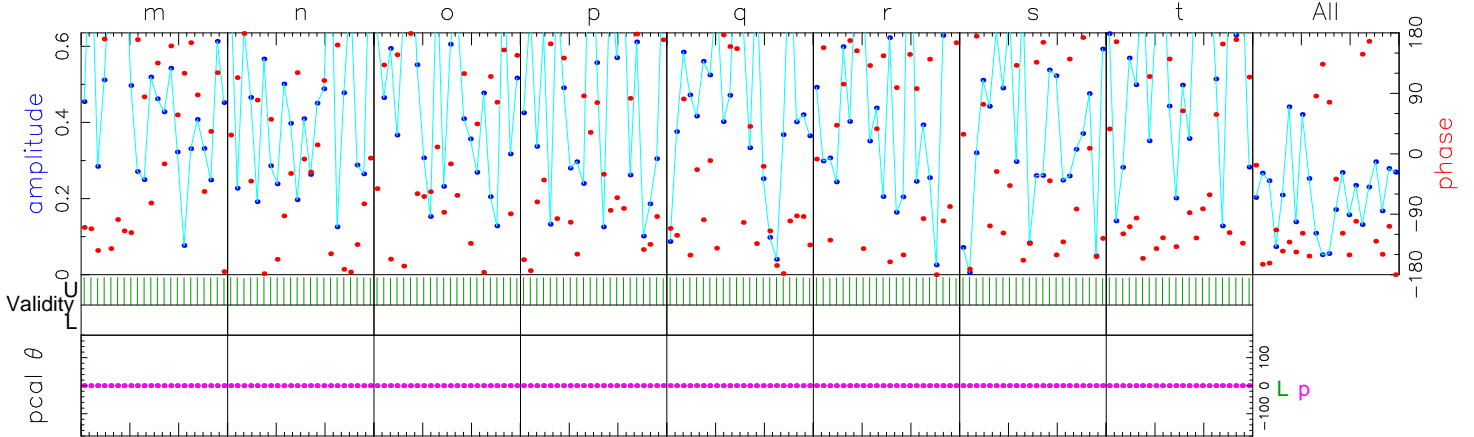


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:180002
 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
	-144.5	-124.9	-149.9	-117.5	-128.4	173.9	-122.5	-128.2	Phase	-139.0
	0.3	0.1	0.1	0.2	0.3	0.3	0.2	0.4	Ampl.	0.2
	14.1	390.1	52.9	395.6	108.0	104.9	378.8	190.7	Sbd box	106.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
L	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
L:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
L:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
L	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
L	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD)	-1.03603689661E+04	Apriori delay (usec)	-1.03597742463E+04	Resid mbdelay (usec)	-9.69831E-04	+/-	1.9E-04
Sband delay (usec)	-1.03603618223E+04	Apriori clock (usec)	-5.9196396E+00	Resid sbdelay (usec)	-5.87576E-01	+/-	1.5E-03
Phase delay (usec)	-1.03597742508E+04	Apriori clockrate (us/s)	-7.1478392E-07	Resid phdelay (usec)	-4.48317E-06	+/-	6.5E-07
Delay rate (us/s)	8.28965349428E-01	Apriori rate (us/s)	8.28974845340E-01	Resid rate (us/s)	-9.49591E-06	+/-	6.2E-09
Total phase (deg)	-346.4	Apriori accel (us/s/s)	5.42093654789E-05	Resid phase (deg)	-139.0	+/-	20.1

ph/seg (deg)	63.2	Theor.	47.1	Amplitude	0.212 +/- 0.037	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	73.7		82.1	Search (1024X32)	0.152	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	24.3		28.4	Inc. seg. avg.	0.216	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	44.9		49.5	Inc. frq. avg.	0.199	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

L: az 93.6 el 15.4 pa -70.0 p: az 136.3 el 49.0 pa -34.7 u,v (fr/asec) -4722.982 -1838.745 simultaneous interpolator

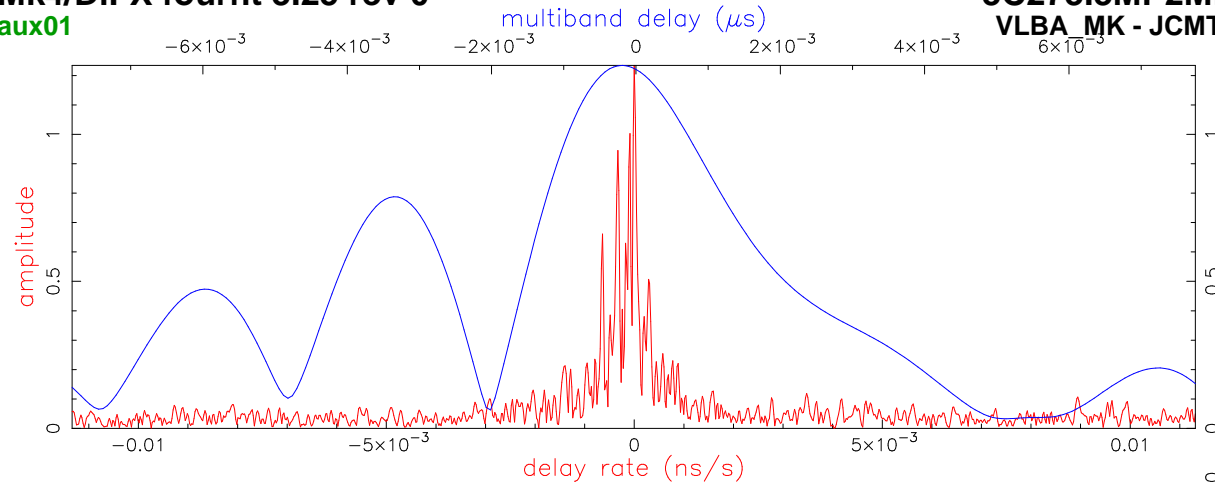
Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//Lp..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//Lp.W.253.3MP2MB

Mk4/DiFX fourfit 3.25 rev 0

aux01

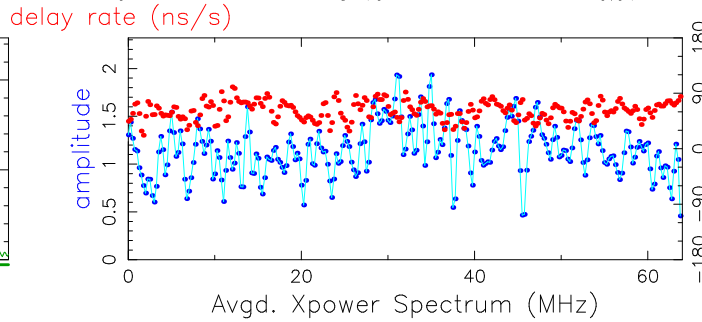
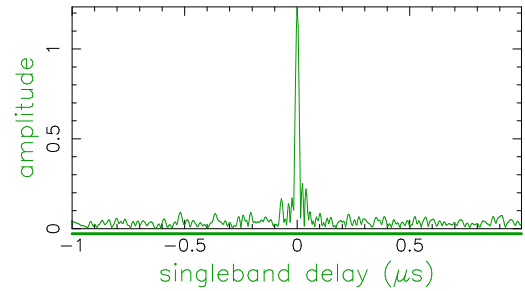
3C273.3MP2MB, No0707, mL

VLBA_MK - JCMT, fgroup W, pol LL



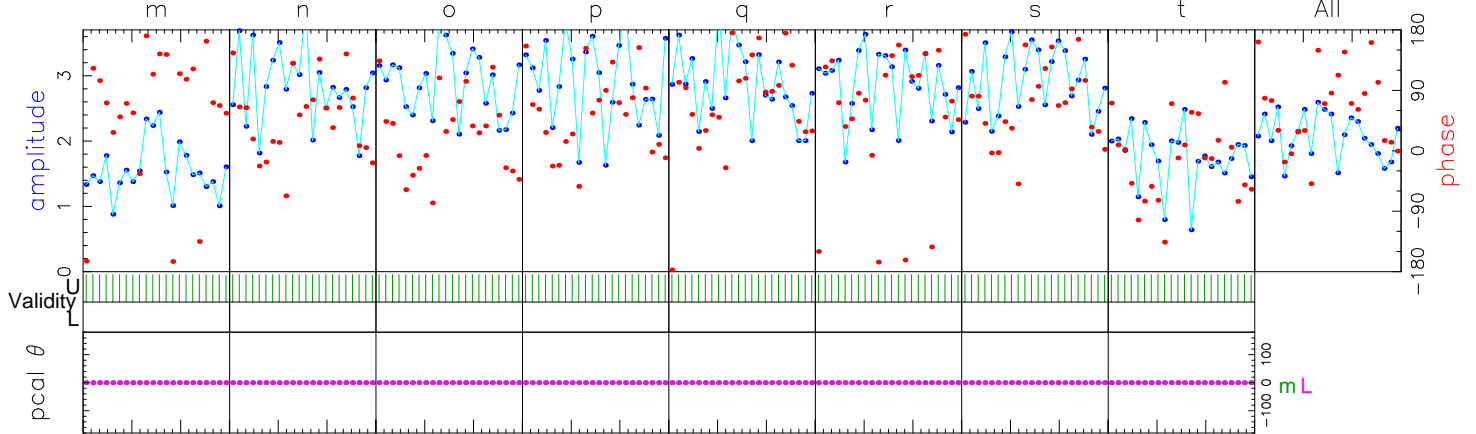
Fringe quality 4

SNR 45.3
 Int time 179.994
 Amp 1.235
 Phase 65.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.000116
 MBD -0.000184
 Fringe rate (Hz) 0.000183
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175950
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	112.0	47.2	26.7	53.6	90.3	116.0	72.9	-14.5	Phase	65.1
	0.9	1.7	1.7	1.8	1.7	1.7	1.8	1.1	Ampl.	1.5
	254.7	256.5	257.4	257.3	257.2	257.3	256.5	254.9	Sbd box	257.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
m	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
m:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
L	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks	

Group delay (usec) (SBD)	8.16248846040E+00	Apriori delay (usec)	8.16267296040E+00	Resid mbdelay (usec)	-1.84500E-04	+/-	2.4E-05
Sband delay (usec)	8.16278896040E+00	Apriori clock (usec)	7.6229286E-01	Resid sbdelay (usec)	1.16000E-04	+/-	1.9E-04
Phase delay (usec)	8.16267506029E+00	Apriori clockrate (us/s)	3.2158694E-07	Resid phdelay (usec)	2.09990E-06	+/-	8.2E-08
Delay rate (us/s)	-4.15688773129E-05	Apriori rate (us/s)	-4.15710029857E-05	Resid rate (us/s)	2.12567E-09	+/-	7.8E-10
Total phase (deg)	298.7	Apriori accel (us/s/s)	-4.08344246647E-08	Resid phase (deg)	65.1	+/-	2.5

ph/seg (deg) 58.4 5.9 Search (1024X32) 1.219 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.1 10.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 47.9 3.6 Inc. seg. avg. 2.075 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 35.5 6.2 Inc. frq. avg. 1.538 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011
 m: az 93.6 el 15.4 pa -70.0 L: az 93.6 el 15.4 pa -70.0 u,v (fr/asec) 0.219 -3.388 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c241b/v2/3mm/1234/No0707//mL..3MP2MB Output file: /Exps/c241b/v2/3mm/1234/No0707//mL.W.200.3MP2MB simultaneous interpolator

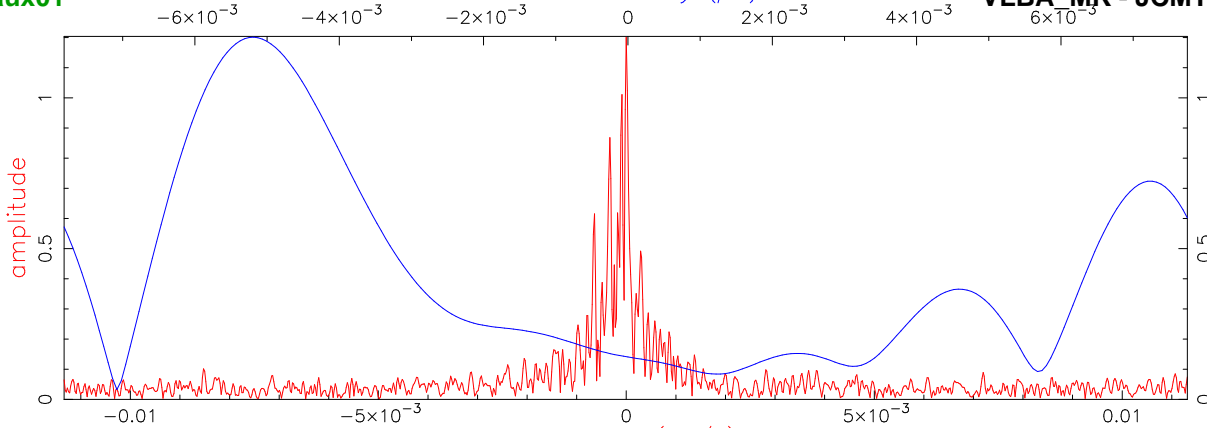
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, mL

VLBA_MK - JCMT, fgroup W, pol RR

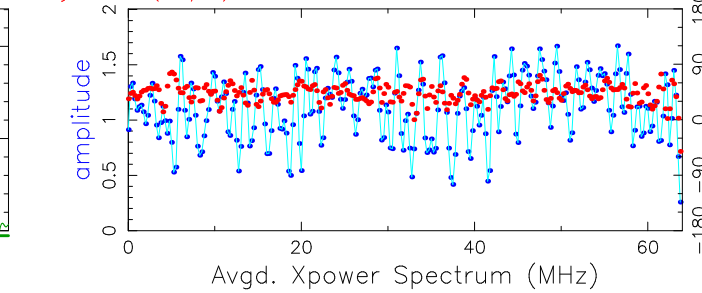
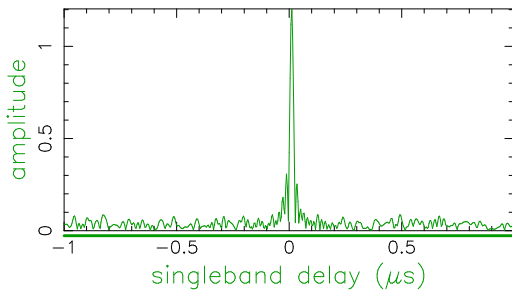
multiband delay (μ s)



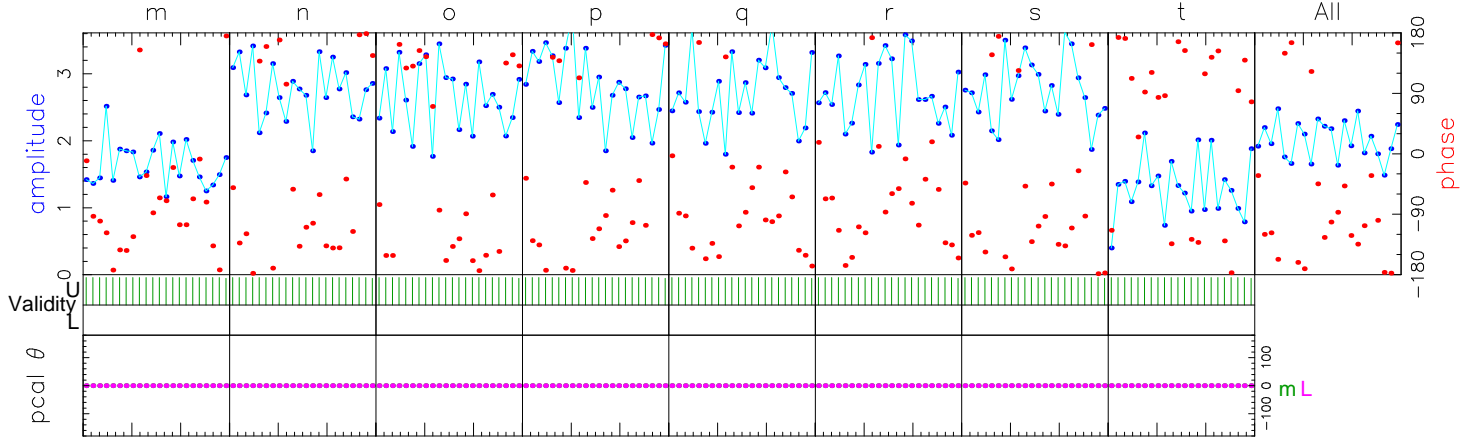
Fringe quality 4

SNR 44.2
 Int time 179.994
 Amp 1.204
 Phase -128.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.011087
 MBD -0.005232
 Fringe rate (Hz) 0.000215
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175952
 2024:113:095956
 RA & Dec (J2000)
 12h29m06.699742s
 +02°03'08.598116"

delay rate (ns/s)



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
	-102.4	-141.3	-167.5	-141.1	-101.8	-81.6	-127.7	146.1	Phase	-128.9
	1.0	1.6	1.6	1.6	1.7	1.6	1.7	0.7	Ampl.	1.4
	257.8	259.7	260.1	260.1	260.0	260.1	259.1	257.1	Sbd box	259.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
m	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
m:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
L	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	8.17306549165E+00		Apriori delay (usec)	8.16267296040E+00	Resid mbdelay (usec)	-5.23247E-03	+/-	2.5E-05		
Sband delay (usec)	8.17376046040E+00		Apriori clock (usec)	7.6229286E-01	Resid sbdelay (usec)	1.10875E-02	+/-	2.0E-04		
Phase delay (usec)	8.16266880449E+00		Apriori clockrate (us/s)	3.2158694E-07	Resid phdelay (usec)	-4.15591E-06	+/-	8.4E-08		
Delay rate (us/s)	-4.15685031944E-05		Apriori rate (us/s)	-4.15710029857E-05	Resid rate (us/s)	2.49979E-09	+/-	8.0E-10		
Total phase (deg)		104.7	Apriori accel (us/s/s)	-4.08344246647E-08	Resid phase (deg)	-128.9	+/-	2.6		
ph/seg (deg)	RMS 57.1	Theor. 6.1	Amplitude Search (1024X32)	1.186	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	71.0	10.6	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)	46.0	3.7	Inc. seg. avg.	2.002	Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	nlags: 256	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	33.4	6.4	Inc. frq. avg.	1.434	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00	
m: az 93.6 el 15.4 pa -70.0		L: az 93.6 el 15.4 pa -70.0		u, v (fr/asec) 0.219 -3.388						simultaneous interpolator
Control file: cf_1234_gmva		Input file: /Exps/c241b/v2/3mm/1234/No0707//mL..3MP2MB		Output file: /Exps/c241b/v2/3mm/1234/No0707//mL.W.209.3MP2MB						

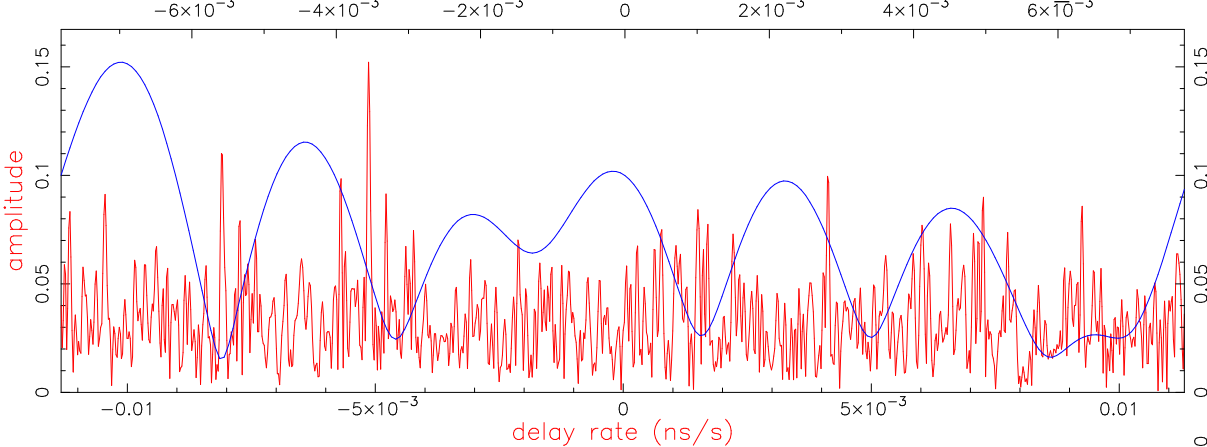
Mk4/DiFX fourfit 3.25 rev 0

aux01

3C273.3MP2MB, No0707, mL

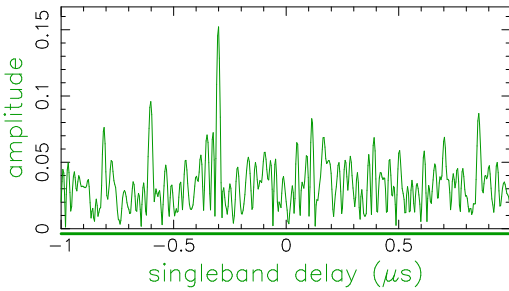
VLBA_MK - JCMT, fgroup W, pol LR

multiband delay (μ s)

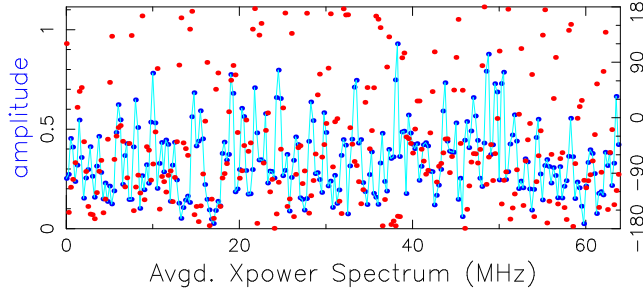


Fringe quality 0

SNR 5.6
 Int time 179.994
 Amp 0.167
 Phase 106.2
 PFD 8.9e-01
 Delays (us)
 SBD -0.301908
 MBD -0.007012
 Fringe rate (Hz)
 -0.443581
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

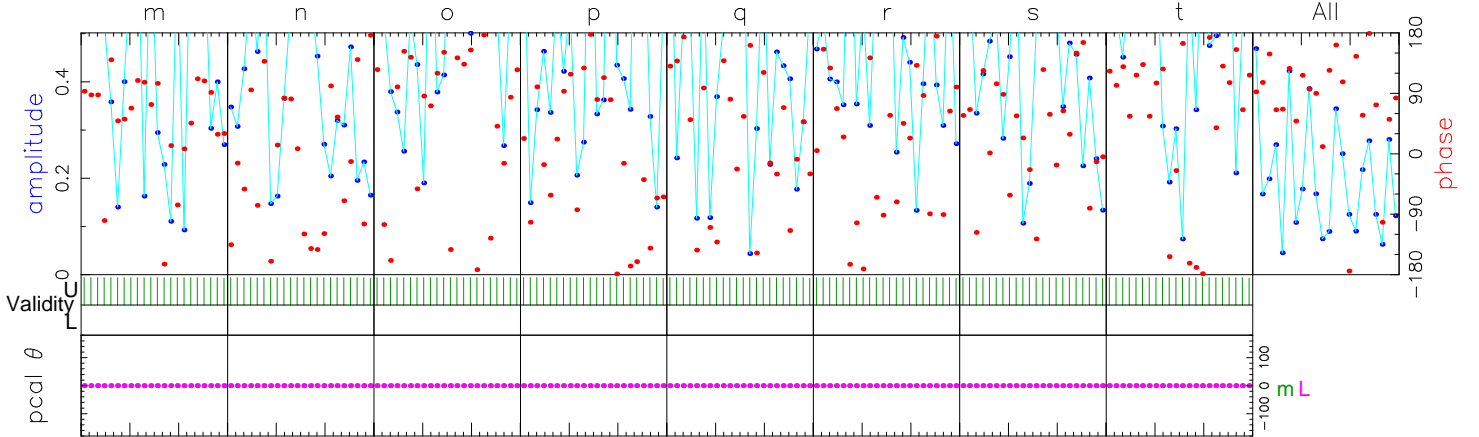


delay rate (ns/s)



Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build
 2024:361:053129
 2025:041:175954
 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
	81.8	-117.6	147.4	97.7	86.9	103.6	61.8	120.1	Phase	106.2
	0.3	0.0	0.3	0.1	0.2	0.0	0.2	0.5	Ampl.	0.2
	179.5	210.9	180.8	499.3	287.0	29.9	52.6	179.4	Sbd box	179.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
m	0	0	0	0	0	0	0	0	PC freqs	
L	0	0	0	0	0	0	0	0	PC freqs	
m:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
L	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
L	W12UR	W13UR	W14UR	W15UR	W16UR	W17UR	W18UR	W19UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec) (SBD)	7.85878579823E+00					8.16267296040E+00			Resid mbdelay (usec)	-7.01216E-03 +/- 1.9E-04
Sband delay (usec)	7.86076446040E+00					7.6229286E-01			Resid sbdelay (usec)	-3.01908E-01 +/- 1.5E-03
Phase delay (usec)	8.16267638425E+00					3.2158694E-07			Resid phdelay (usec)	3.42385E-06 +/- 6.6E-07
Delay rate (us/s)	-4.67205333472E-05					-4.15710029857E-05			Resid rate (us/s)	-5.14953E-06 +/- 6.3E-09
Total phase (deg)			339.7			-4.08344246647E-08			Resid phase (deg)	106.2 +/- 20.4
	RMS	Theor.	Amplitude	0.167 +/- 0.030					Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	54.5	47.8	Search (1024X32)	0.142					Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	83.8	83.3	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	62.5	28.8	Inc. seg. avg.	0.165					Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.011 0.011
amp/frq (%)	87.7	50.3	Inc. frq. avg.	0.172					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
m: az 93.6 el 15.4 pa -70.0			L: az 93.6 el 15.4 pa -70.0			u, v (fr/asec) 0.219 -3.388				simultaneous interpolator
Control file: cf_1234_gmva			Input file: /Exps/c241b/v2/3mm/1234/No0707//mL..3MP2MB			Output file: /Exps/c241b/v2/3mm/1234/No0707//mL.W.217.3MP2MB				

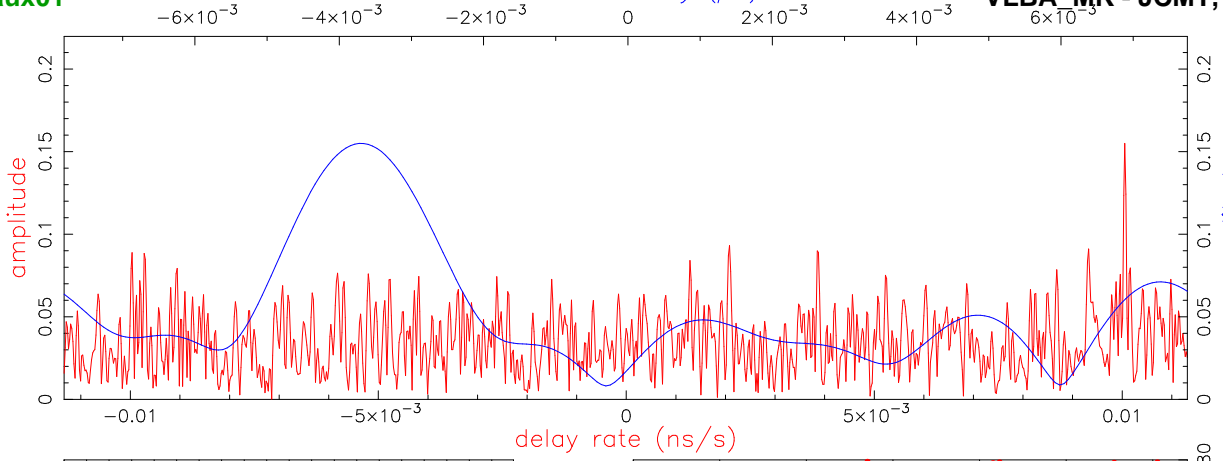
Mk4/DiFX fourfit 3.25 rev 0

aux01

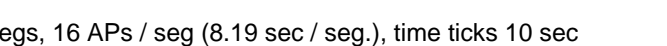
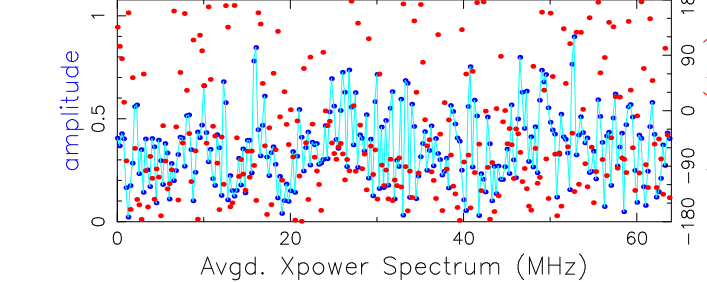
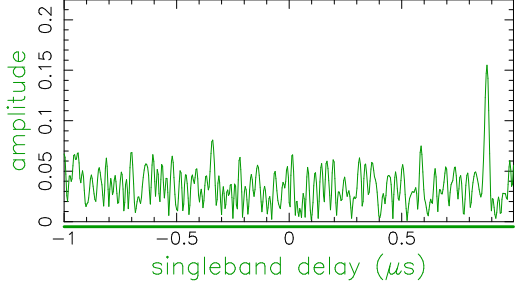
3C273.3MP2MB, No0707, mL

VLBA_MK - JCMT, fgroup W, pol RL

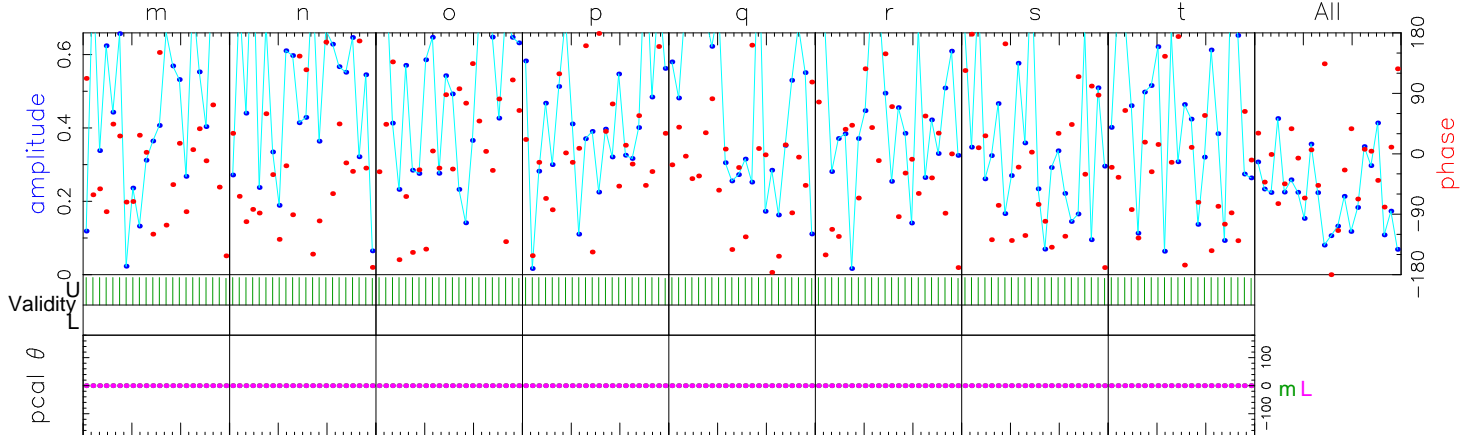
multiband delay (μ s)



Fringe quality 0
 SNR 5.7
 Int time 179.994
 Amp 0.220
 Phase -20.2
 PFD 7.9e-01
 Delays (us)
 SBD 0.878497
 MBD -0.003711
 Fringe rate (Hz) 0.867534
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c241b
 Exper # 1234
 Yr:day 2024:111
 Start 040000.00
 Stop 040300.22
 FRT 040130.00
 Corr/FF/build 2024:361:053129
 2025:041:175956
 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	
	-29.5	-63.4	25.1	-2.7	-14.9	-14.1	-22.7	-39.6	Phase	-20.2	
	0.3	0.2	0.2	0.2	0.4	0.2	0.1	0.2	Ampl.	0.2	
	231.3	13.2	286.5	479.2	482.4	508.7	469.5	125.2	Sbd box	481.9	
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used		
m	0	0	0	0	0	0	0	0	PC freqs		
L	0	0	0	0	0	0	0	0	PC freqs		
m:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
m:L	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC		
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
L	1000	1000	1000	1000	1000	1000	1000	1000			
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids		
L	W12UL	W13UL	W14UL	W15UL	W16UL	W17UL	W18UL	W19UL	Tracks		
									Tracks		
Group delay (usec) (SBD)	9.03396151982E+00		Apriori delay (usec)		8.16267296040E+00		Resid mbdelay (usec)		-3.71144E-03	+/- 1.9E-04	
Sband delay (usec)	9.04117046040E+00		Apriori clock (usec)		7.6229286E-01		Resid sbdelay (usec)		8.78497E-01	+/- 1.5E-03	
Phase delay (usec)	8.16267230759E+00		Apriori clockrate (us/s)		3.2158694E-07		Resid phdelay (usec)		-6.52807E-07	+/- 6.5E-07	
Delay rate (us/s)	-3.14997931365E-05		Apriori rate (us/s)		-4.15710029857E-05		Resid rate (us/s)		1.00712E-05	+/- 6.2E-09	
Total phase (deg)	213.3		Apriori accel (us/s/s)		-4.08344246647E-08		Resid phase (deg)		-20.2	+/- 20.1	
RMS	69.0	47.2	Amplitude		0.220 +/- 0.039		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		
ph/seg (deg)	78.0	82.4	Search (1024X32)		0.151		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
amp/seg (%)	78.0	82.4	Interp.		0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	28.2	28.5	Inc. seg. avg.		0.235		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)	-0.011 0.011	
amp/frq (%)	40.5	49.7	Inc. frq. avg.		0.214		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00
m: az 93.6 el 15.4 pa -70.0		L: az 93.6 el 15.4 pa -70.0		u,v (fr/asec) 0.219 -3.388						simultaneous interpolator	
Control file: cf_1234_gmva		Input file: /Exps/c241b/v2/3mm/1234/No0707//mL..3MP2MB		Output file: /Exps/c241b/v2/3mm/1234/No0707//mL.W.229.3MP2MB							