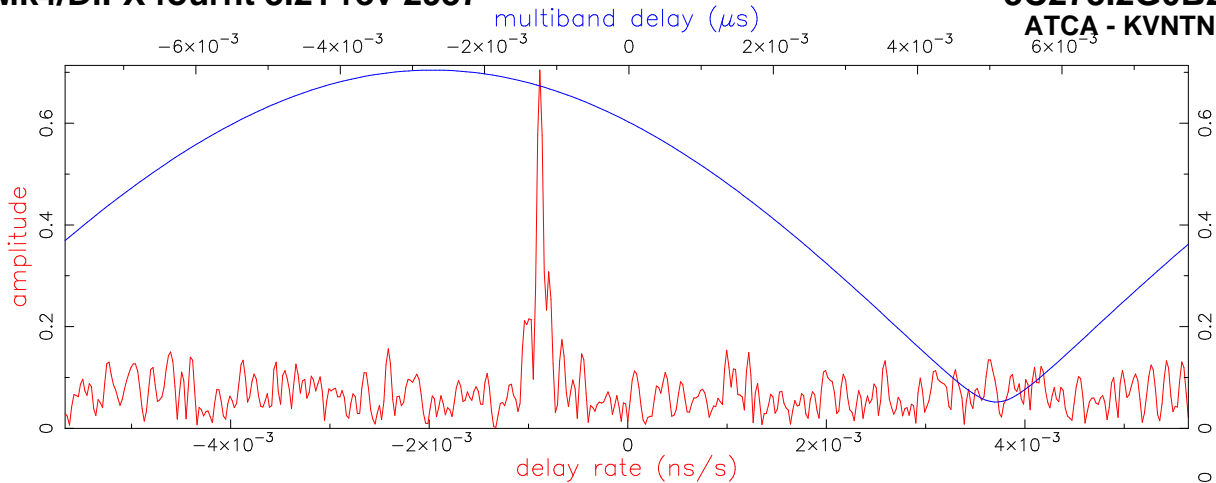


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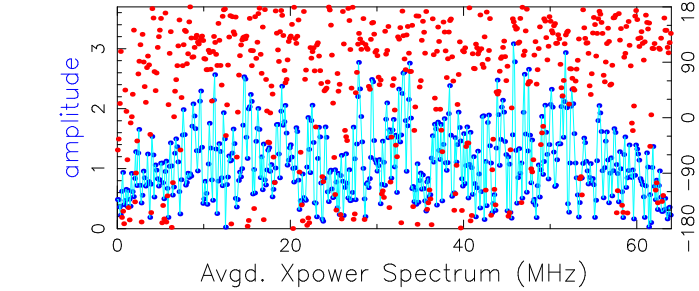
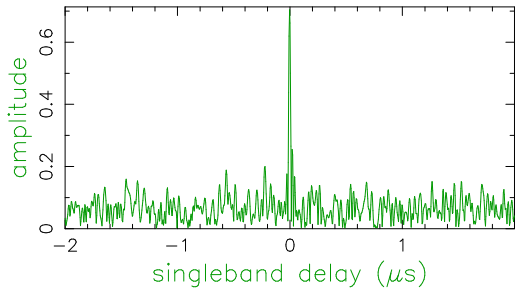
3C273.2G0B2Q, No0235, at ATCA - KVNTN, fgroup W, pol LL



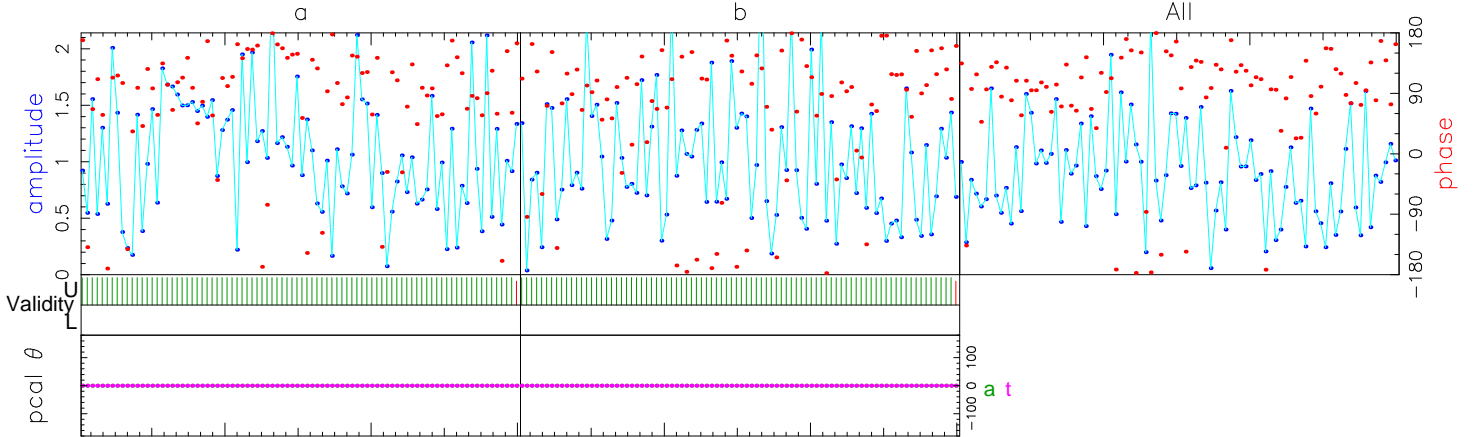
Fringe quality 9

SNR 13.0
 Int time 179.937
 Amp 0.714
 Phase 117.2
 PFD 1.5e-30
 Delays (us)
 SBD -0.003229
 MBD -0.002708
 Fringe rate (Hz)
 -0.077100
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.024

Exp. c221a
 Yr:day 16383
 Start 120001.00
 Stop 120301.22
 FRT 120131.00
 Corr/FF/build
 2022:307:125337
 2022:307:130127
 2021:252:122852
 RA & Dec (J2000)
 12h29m06.699731s
 +02°03'08.598201"



Amp. and Phase vs. time for each freq., 88 segs, 2 APs / seg (2.05 sec / seg.), time ticks 5 sec



86012.00	86076.00	Freq (MHz)	All				
117.4	117.0	Phase	117.2				
0.8	0.7	Ampl.	0.7				
512.5	511.7	Sbd box	512.2				
U/L 176/0	176/0	APs used					
a 0	0	PC freqs					
t 0	0	PC freqs					
a:t 0:0	0:0	PC phase					
a:t 0:0	0:0	Manl PC					
a 1000	1000	PC amp					
t 1000	1000						
a W00UL	W01UL	Chan ids					
t W00UL	W01UL	Tracks					
		Chan ids					
		Tracks					
Group delay (usec)(sbd)	4.23860310637E+03	Apriori delay (usec)	4.23860581413E+03	Resid mbdelay (usec)	-2.70776E-03	+/-	3.8E-04
Sband delay (usec)	4.23860258538E+03	Apriori clock (usec)	-4.3364033E+01	Resid sbdelay (usec)	-3.22875E-03	+/-	6.6E-04
Phase delay (usec)	4.23860581791E+03	Apriori clockrate (us/s)	6.5689999E-07	Resid phdelay (usec)	3.77903E-06	+/-	2.9E-07
Delay rate (us/s)	-3.82410469134E-01	Apriori rate (us/s)	-3.82409574084E-01	Resid rate (us/s)	-8.95050E-07	+/-	2.7E-09
Total phase (deg)	55.8	Apriori accel (us/s/s)	-2.67577984047E-05	Resid phase (deg)	117.2	+/-	8.8

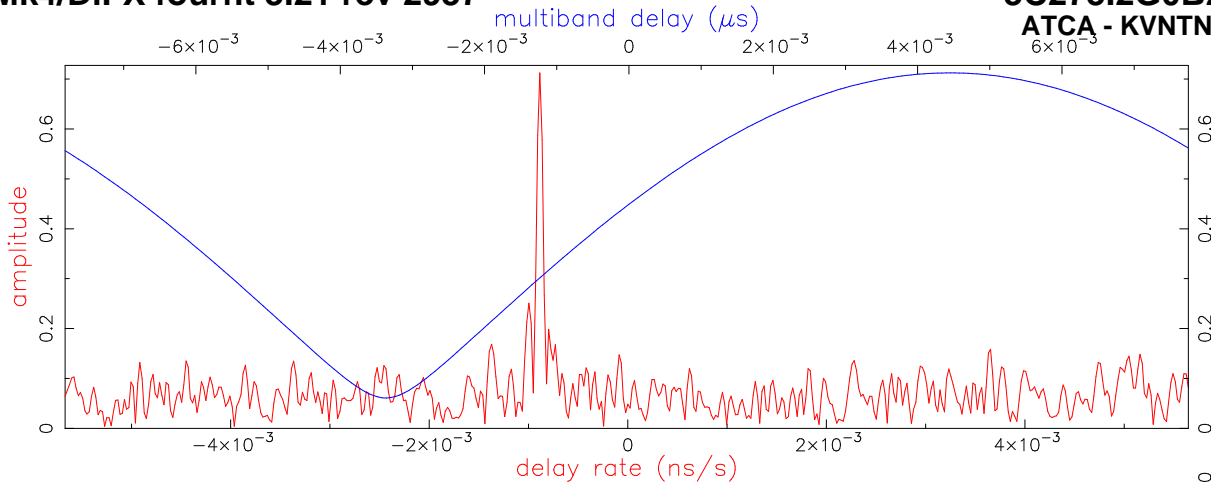
ph/seg (deg)	RMS 46.3	Theor. 41.5	Amplitude Search (512X8)	0.714 +/- 0.055	0.669	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	67.6	72.4	Interp.	0.000	0.669	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -2.000 2.000
ph/frq (deg)	0.0	6.3	Inc. seg. avg.	0.728	0.669	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	7.3	10.9	Inc. frq. avg.	0.707	0.669	Sample rate(MISamp/s): 128	mb window (us) -0.008 0.008
					0.669	Data rate(Mb/s): 512	dr window (ns/s) -0.006 0.006
					0.669	nlags: 512	t_cohere infinite
					0.669		ion window (TEC) 0.00 0.00

a: az 44.9 el 48.0 pa -142.5 t: az 112.0 el 32.8 pa -50.9 u,v (fr/asec) 2175.132 -9374.206 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221a/FRINGE/c221a_mopra_test/1234/No0235/at..2G0B2Q Output file: /Exps/c221a/FRINGE/c221a_mopra_test/1234/No0235/at.W.9.2G0

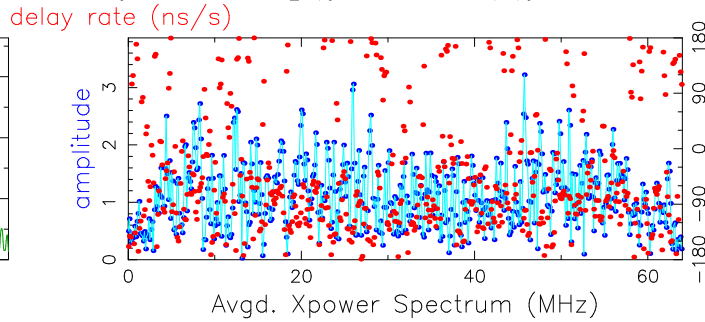
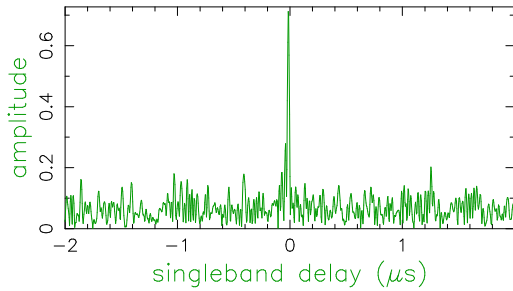
Mk4/DiFX fourfit 3.21 rev 2937

3C273.2G0B2Q, No0235, at ATCA - KVNTN, fgroup W, pol LR



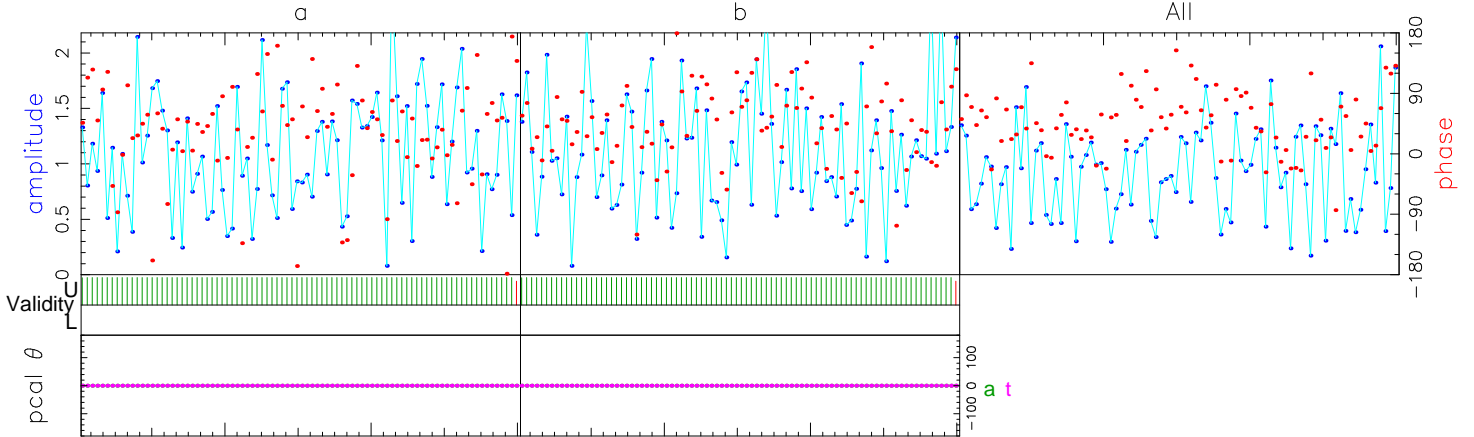
Fringe quality 9

SNR 13.2
 Int time 179.937
 Amp 0.727
 Phase 49.8
 PFD 5.7e-32
 Delays (us)
 SBD -0.014238
 MBD 0.004440
 Fringe rate (Hz)
 -0.076798
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.024



Exp. c221a
 Exper # 16383
 Yr:day 2022:091
 Start 120001.00
 Stop 120301.22
 FRT 120131.00
 Corr/FF/build
 2022:307:125337
 2022:307:130128
 2021:252:122852
 RA & Dec (J2000)
 12h29m06.699731s
 +02°03'08.598201"

Amp. and Phase vs. time for each freq., 88 segs, 2 APs / seg (2.05 sec / seg.), time ticks 5 sec



86012.00	86076.00	Freq (MHz)	All
49.8	49.8	Phase	49.8
0.7	0.8	Ampl.	0.7
510.1	508.7	Sbd box	509.4
U/L 176/0	176/0	APs used	
a 0	0	PC freqs	
t 0	0	PC freqs	
a:t 0:0	0:0	PC phase	
a:t 0:0	0:0	ManI PC	
a 1000	1000	PC amp	
t 1000	1000		
a W00UL	W01UL	Chan ids	
t W00UR	W01UR	Tracks	
		Chan ids	
		Tracks	

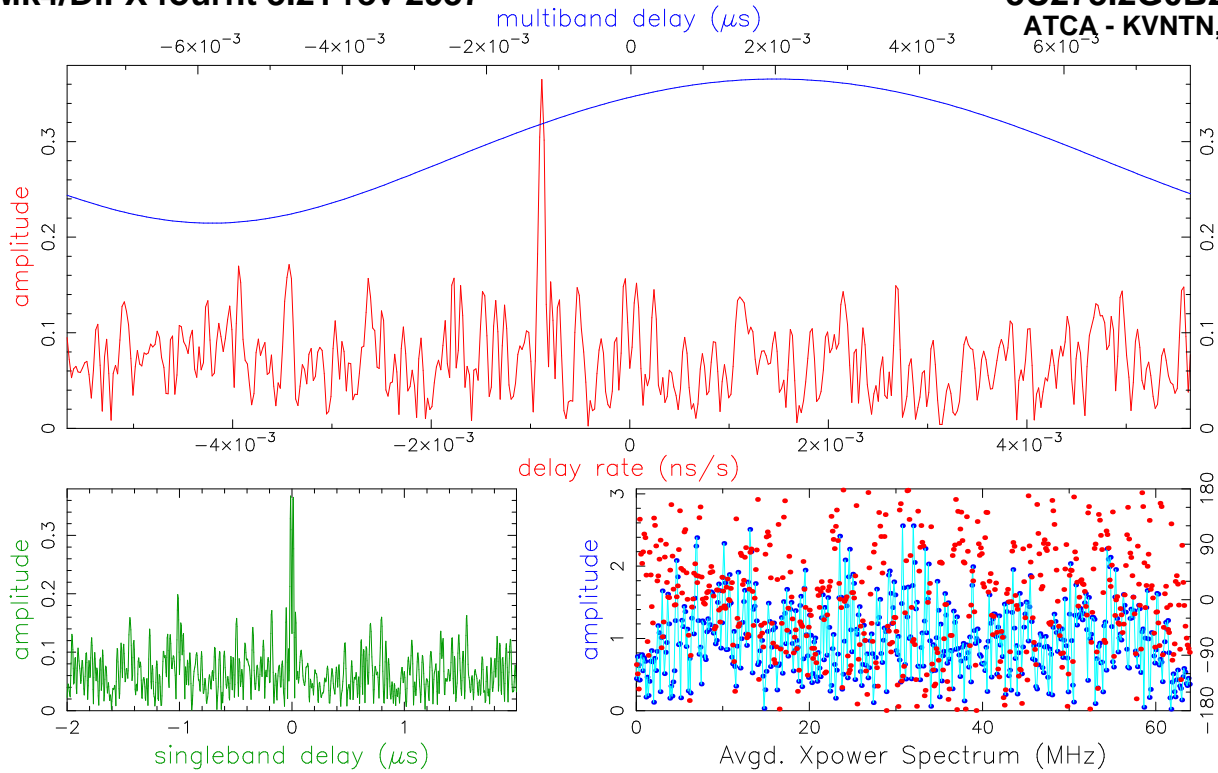
Group delay (usec)(sbd)	4.23859462875E+03	Apriori delay (usec)	4.23860581413E+03	Resid mbdelay (usec)	4.43962E-03	+/-	3.8E-04
Sband delay (usec)	4.23859157588E+03	Apriori clock (usec)	-4.3364033E+01	Resid sbdelay (usec)	-1.42383E-02	+/-	6.5E-04
Phase delay (usec)	4.23860581574E+03	Apriori clockrate (us/s)	6.5689999E-07	Resid phdelay (usec)	1.60587E-06	+/-	2.8E-07
Delay rate (us/s)	-3.82410465638E-01	Apriori rate (us/s)	-3.82409574084E-01	Resid rate (us/s)	-8.91554E-07	+/-	2.7E-09
Total phase (deg)	348.4	Apriori accel (us/s/s)	-2.67577984047E-05	Resid phase (deg)	49.8	+/-	8.7

ph/seg (deg)	RMS 44.5	Theor. 40.7	Amplitude Search (512X8)	0.727 +/- 0.055	0.691	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	64.0	71.0	Interp.	0.000	0.691	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -2.000 2.000
ph/frq (deg)	0.0	6.1	Inc. seg. avg.	0.753	0.691	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	8.5	10.7	Inc. frq. avg.	0.716	0.691	Sample rate(MISamp/s): 128	mb window (us) -0.008 0.008
					0.691	Data rate(Mb/s): 512	dr window (ns/s) -0.006 0.006
					0.691	nlags: 512	t_cohere infinite
					0.691		ion window (TEC) 0.00 0.00

a: az 44.9 el 48.0 pa -142.5 t: az 112.0 el 32.8 pa -50.9 u,v (fr/asec) 2175.132 -9374.206 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221a/FRINGE/c221a_mopra_test/1234/No0235/at..2G0B2Q Output file: /Exps/c221a/FRINGE/c221a_mopra_test/1234/No0235/at.W.11.2G

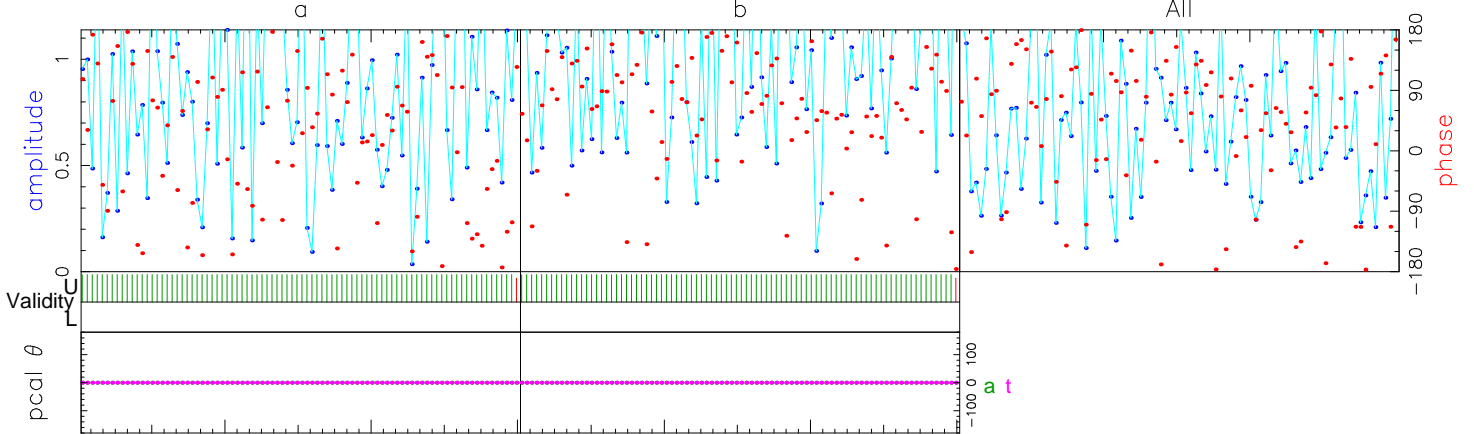
Mk4/DiFX fourfit 3.21 rev 2937

3C273.2G0B2Q, No0235, at ATCA - KVNTN, fgroup W, pol RL



Fringe quality 0
 SNR 6.9
 Int time 179.937
 Amp 0.380
 Phase 93.2
 PFD 2.0e-04
 Delays (us)
 SBD 0.009888
 MBD 0.002277
 Fringe rate (Hz) -0.076768
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 1.024
 Exp. c221a
 Exper # 16383
 Yr:day 2022:091
 Start 120001.00
 Stop 120301.22
 FRT 120131.00
 Corr/FF/build
 2022:307:125337
 2022:307:130128
 2021:252:122852
 RA & Dec (J2000)
 12h29m06.699731s
 +02°03'08.598201"

Amp. and Phase vs. time for each freq., 88 segs, 2 APs / seg (2.05 sec / seg.), time ticks 5 sec



86012.00	86076.00	Freq (MHz)	All				
98.3	91.9	Phase	93.2				
0.2	0.6	Ampl.	0.4				
510.1	515.3	Sbd box	515.5				
U/L 176/0	176/0	APs used					
a 0	0	PC freqs					
t 0	0	PC freqs					
a:t 0:0	0:0	PC phase					
a:t 0:0	0:0	Manl PC					
a 1000	1000	PC amp					
t 1000	1000						
a W00UR	W01UR	Chan ids					
t W00UL	W01UL	Tracks					
		Chan ids					
		Tracks					
Group delay (usec)(sbd)	4.23860809125E+03	Apriori delay (usec)	4.23860581413E+03	Resid mbdelay (usec)	2.27712E-03	+/-	7.2E-04
Sband delay (usec)	4.23861570238E+03	Apriori clock (usec)	-4.3364033E+01	Resid sbdelay (usec)	9.88825E-03	+/-	1.2E-03
Phase delay (usec)	4.23860581714E+03	Apriori clockrate (us/s)	6.5689999E-07	Resid phdelay (usec)	3.00624E-06	+/-	5.4E-07
Delay rate (us/s)	-3.82410465285E-01	Apriori rate (us/s)	-3.82409574084E-01	Resid rate (us/s)	-8.91201E-07	+/-	5.2E-09
Total phase (deg)	31.8	Apriori accel (us/s/s)	-2.67577984047E-05	Resid phase (deg)	93.2	+/-	16.6

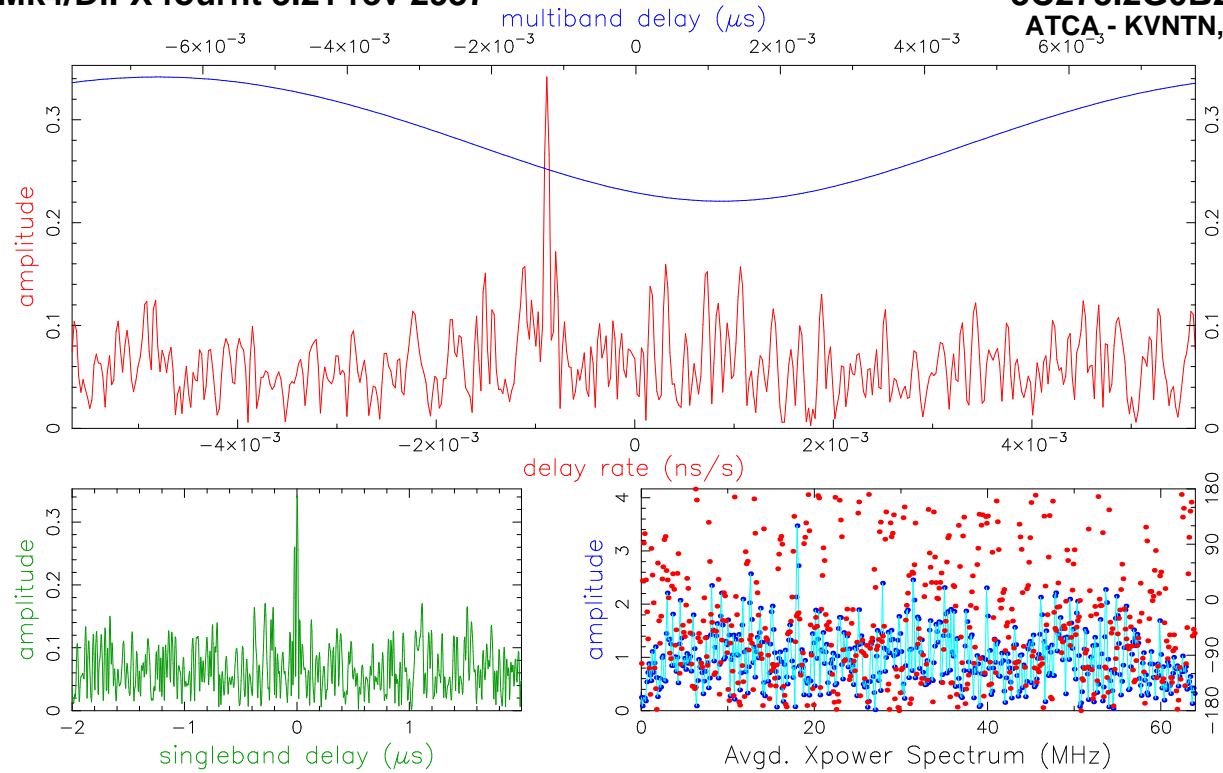
ph/seg (deg)	RMS 77.4	Theor. 78.0	Amplitude Search (512X8)	0.380 +/- 0.055	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	141.1	136.1	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-2.000	2.000		
ph/frq (deg)	0.0	11.8	Inc. seg. avg.	0.389	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	57.2	20.5	Inc. frq. avg.	0.362	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.006	0.006	
					Data rate(Mb/s): 512	nlags: 512	t_cohere infinite	ion window (TEC)	0.00	0.00

a: az 44.9 el 48.0 pa -142.5 t: az 112.0 el 32.8 pa -50.9 u,v (fr/asec) 2175.132 -9374.206 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221a/FRINGE/c221a_mopra_test/1234/No0235/at..2G0B2Q Output file: /Exps/c221a/FRINGE/c221a_mopra_test/1234/No0235/at.W.12.2G

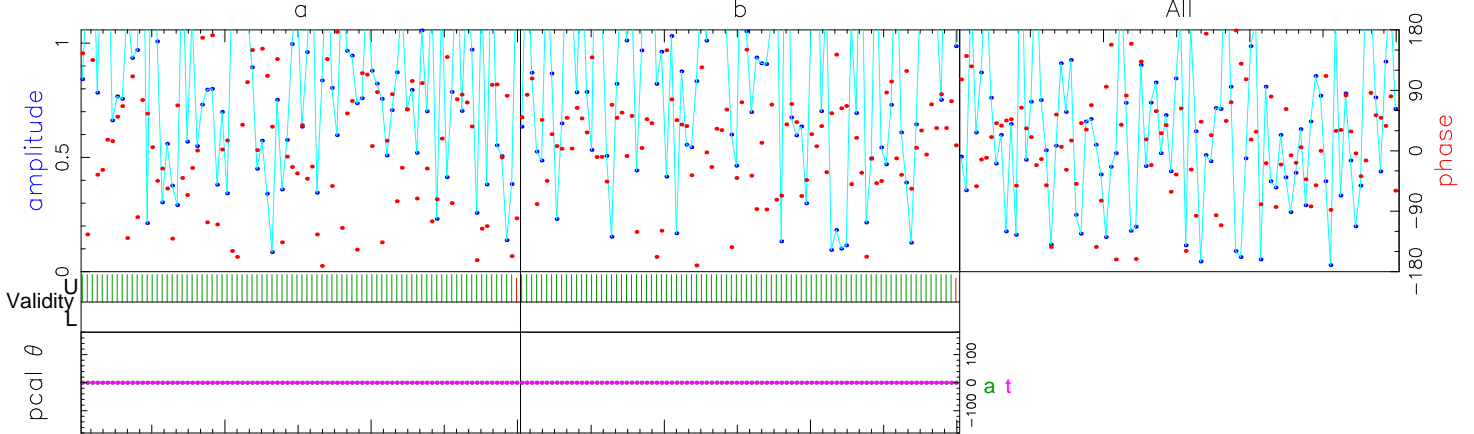
Mk4/DiFX fourfit 3.21 rev 2937

3C273.2G0B2Q, No0235, at ATCA - KVNTN, fgroup W, pol RR



Fringe quality 0
 SNR 6.4
 Int time 179.937
 Amp 0.353
 Phase 22.5
 PFD 5.1e-03
 Delays (us)
 SBD 0.001671
 MBD -0.006638
 Fringe rate (Hz)
 -0.076779
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.024
 Exp. c221a
 Exper # 16383
 Yr:day 2022:091
 Start 120001.00
 Stop 120301.22
 FRT 120131.00
 Corr/FF/build
 2022:307:125337
 2022:307:130128
 2021:252:122852
 RA & Dec (J2000)
 12h29m06.699731s
 +02°03'08.598201"

Amp. and Phase vs. time for each freq., 88 segs, 2 APs / seg (2.05 sec / seg.), time ticks 5 sec



86012.00	86076.00	Freq (MHz)	All
22.5	22.5	Phase	22.5
0.1	0.6	Ampl.	0.3
507.8	513.0	Sbd box	513.4
U/L 176/0	176/0	APs used	
a 0	0	PC freqs	
t 0	0	PC freqs	
a:t 0:0	0:0	PC phase	
a:t 0:0	0:0	Manl PC	
a 1000	1000	PC amp	
t 1000	1000		
a W00UR	W01UR	Chan ids	
t W00UR	W01UR	Tracks	
		Chan ids	
		Tracks	

Group delay (usec)(sbd)	4.23861480125E+03	Apriori delay (usec)	4.23860581413E+03	Resid mbdelay (usec)	-6.63788E-03	+/-	7.8E-04
Sband delay (usec)	4.23860748488E+03	Apriori clock (usec)	-4.3364033E+01	Resid sbdelay (usec)	1.67075E-03	+/-	1.3E-03
Phase delay (usec)	4.23860581486E+03	Apriori clockrate (us/s)	6.5689999E-07	Resid phdelay (usec)	7.25772E-07	+/-	5.8E-07
Delay rate (us/s)	-3.82410465409E-01	Apriori rate (us/s)	-3.82409574084E-01	Resid rate (us/s)	-8.91324E-07	+/-	5.5E-09
Total phase (deg)	321.1	Apriori accel (us/s/s)	-2.67577984047E-05	Resid phase (deg)	22.5	+/-	17.9

ph/seg (deg)	RMS 76.6	Theor. 83.9	Amplitude Search (512X8)	0.353 +/- 0.055	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-2.000	2.000	
amp/seg (%)	131.0	146.4	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	0.0	12.6	Inc. seg. avg.	0.307	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.006	0.006	
amp/frq (%)	63.3	22.1	Inc. frq. avg.	0.337	Data rate(Mb/s): 512	nlags: 512	t_cohere infinite	ion window (TEC)	0.00	0.00

a: az 44.9 el 48.0 pa -142.5 t: az 112.0 el 32.8 pa -50.9 u,v (fr/asec) 2175.132 -9374.206 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221a/FRINGE/c221a_mopra_test/1234/No0235/at..2G0B2Q Output file: /Exps/c221a/FRINGE/c221a_mopra_test/1234/No0235/at.W.10.2G