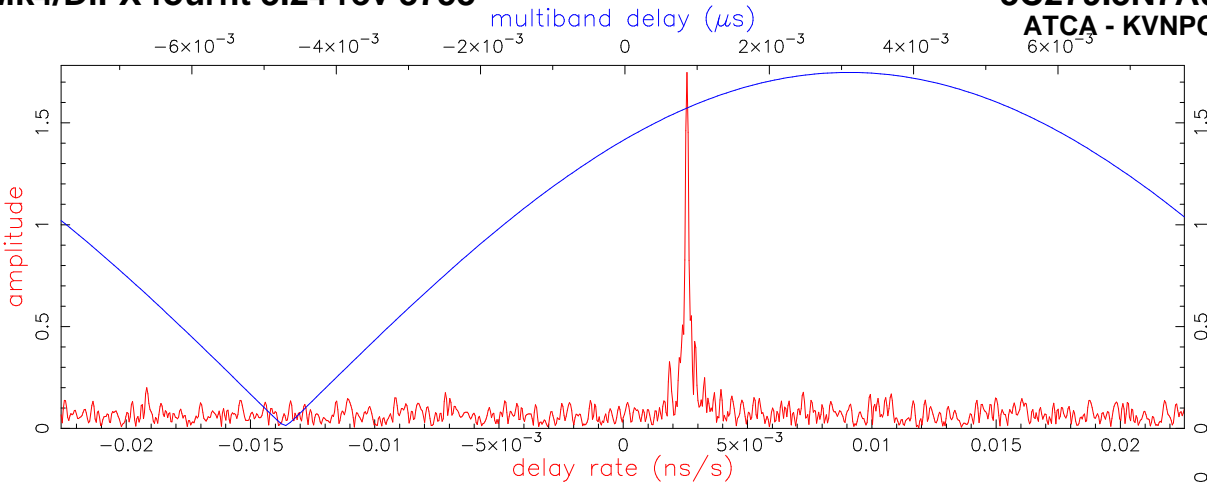
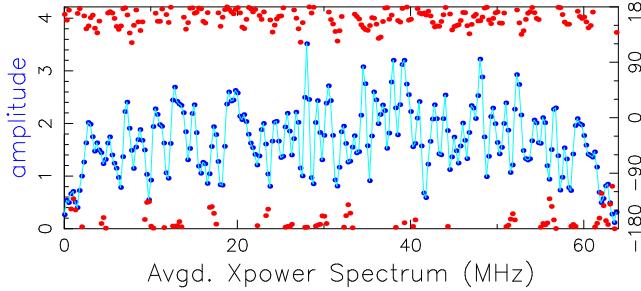
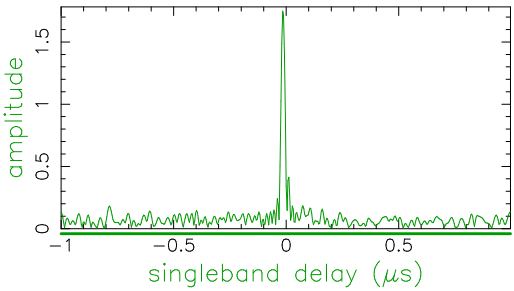


Mk4/DiFX fourfit 3.24 rev 3753

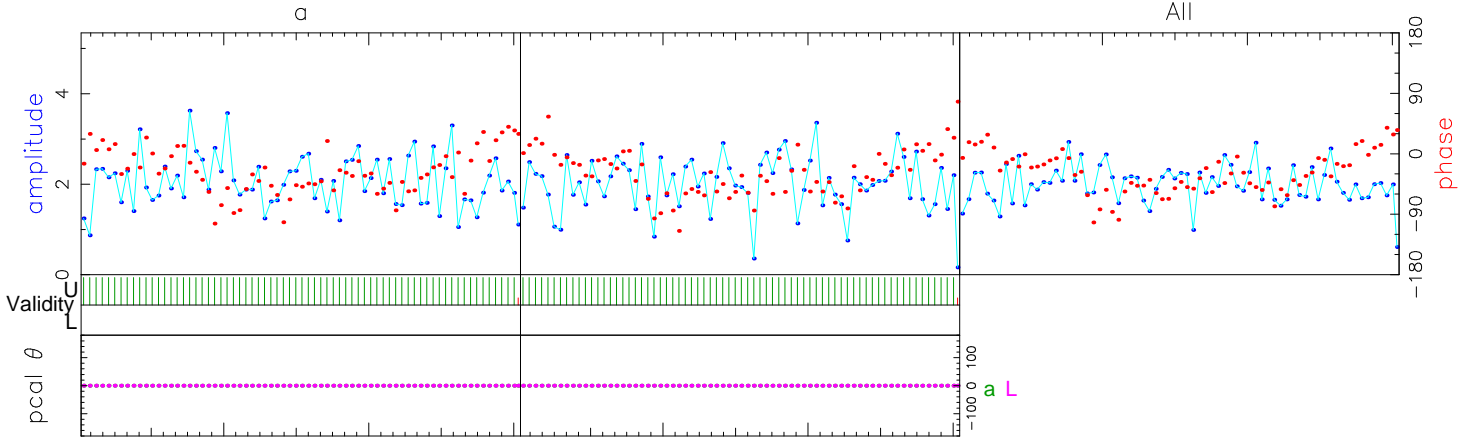
3C279.3N7A0J, No1356, aL
ATCA - KVNPC, fgroup Q, pol LL



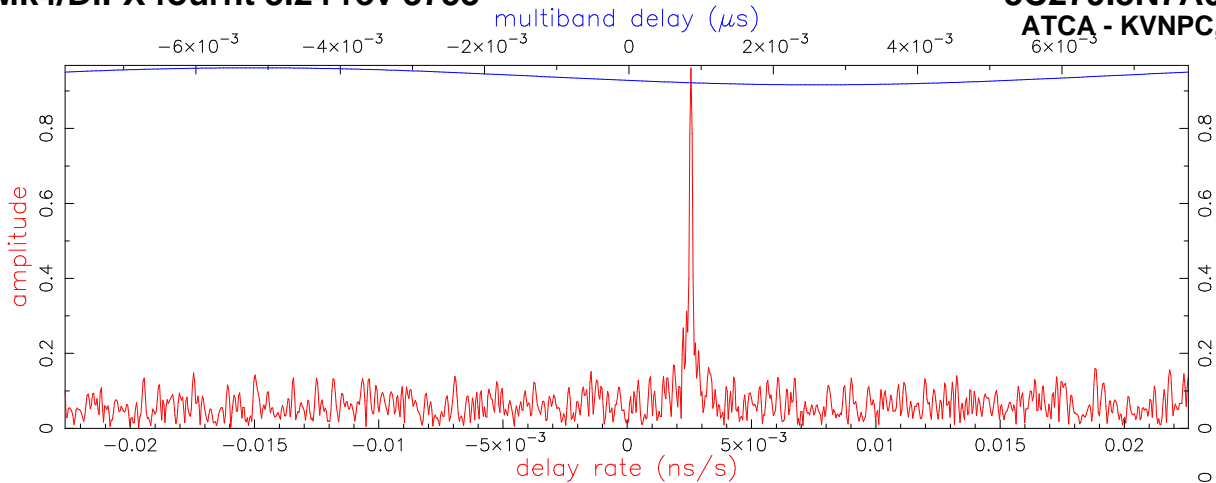
Fringe quality 9
SNR 32.5
Int time 179.855
Amp 1.782
Phase -28.3
PFD 0.0e+00
Delays (us)
SBD -0.014039
MBD 0.003126
Fringe rate (Hz)
0.111861
Ion TEC 0.000
Ref freq (MHz)
43168.0000
AP (sec) 0.512
Exp. c241d
Exper # 1234
Yr:day 2024:114
Start 143001.00
Stop 143301.22
FRT 143131.00
Corr/FF/build
2025:049:064418
2025:051:103442
2023:348:201250
RA & Dec (J2000)
12h56m11.166579s
-5°47'21.525152"



Amp. and Phase vs. time for each freq., 71 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec

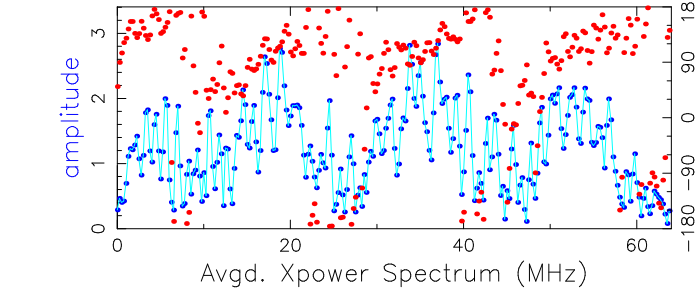
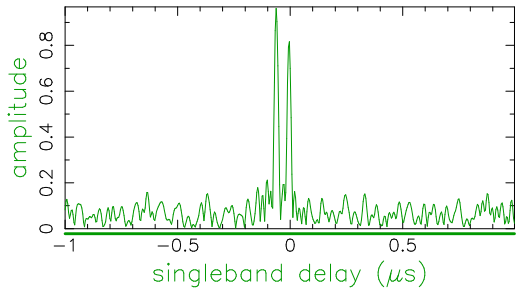


42912.00	42976.00	Freq (MHz)	All					
-28.0	-28.5	Phase	-28.3					
1.8	1.7	Ampl.	1.8					
253.8	253.0	Sbd box	253.4					
U/L 352/0	352/0	APs used						
a 0	0	PC freqs						
L 0	24000	PC freqs						
a:L 0:0	0:0	PC phase						
a:L 0:0	0:0	Manl PC						
a 1000	1000	PC amp						
L 1000	1000							
a Q00UL	Q01UL	Chan ids						
L Q00UL	Q01UL	Tracks						
		Chan ids						
		Tracks						
Group delay (usec) (SBD)	2.19634851189E+03	Apriori delay (usec)	2.19636101107E+03	Resid mbdelay (usec)	3.12583E-03	+/-	1.5E-04	
Sband delay (usec)	2.19634697182E+03	Apriori clock (usec)	-1.8522253E+01	Resid sbdelay (usec)	-1.40393E-02	+/-	2.6E-04	
Phase delay (usec)	2.19636100925E+03	Apriori clockrate (us/s)	5.0388179E-06	Resid phdelay (usec)	-1.81869E-06	+/-	2.3E-07	
Delay rate (us/s)	-4.80446981098E-01	Apriori rate (us/s)	-4.80449572395E-01	Resid rate (us/s)	2.59130E-06	+/-	2.2E-09	
Total phase (deg)	17.0	Apriori accel (us/s/s)	1.15331865361E-06	Resid phase (deg)	-28.3	+/-	3.5	
RMS	Theor.	Amplitude	1.782 +/- 0.055	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
31.0	14.9	Search (1024X8)	1.670	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
26.0	25.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
0.0	2.5	Inc. seg. avg.	1.956	Data rate(MSamp/s):	128 MBpts 8 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
1.6	4.4	Inc. frq. avg.	1.756	Data rate(Mb/s):	512	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00
a: az 311.3 el 56.2 pa 139.2		L: az 185.4 el 46.4 pa 4.6		u,v (fr/asec) 1383.939 -4910.648		simultaneous interpolator		
Control file: cf_1234		Input file: /Exps/c241d/v2/7mm/1234/No1356/aL...3N7A0J		Output file: /Exps/c241d/v2/7mm/1234/No1356/aL.Q.1.3N7A0J				



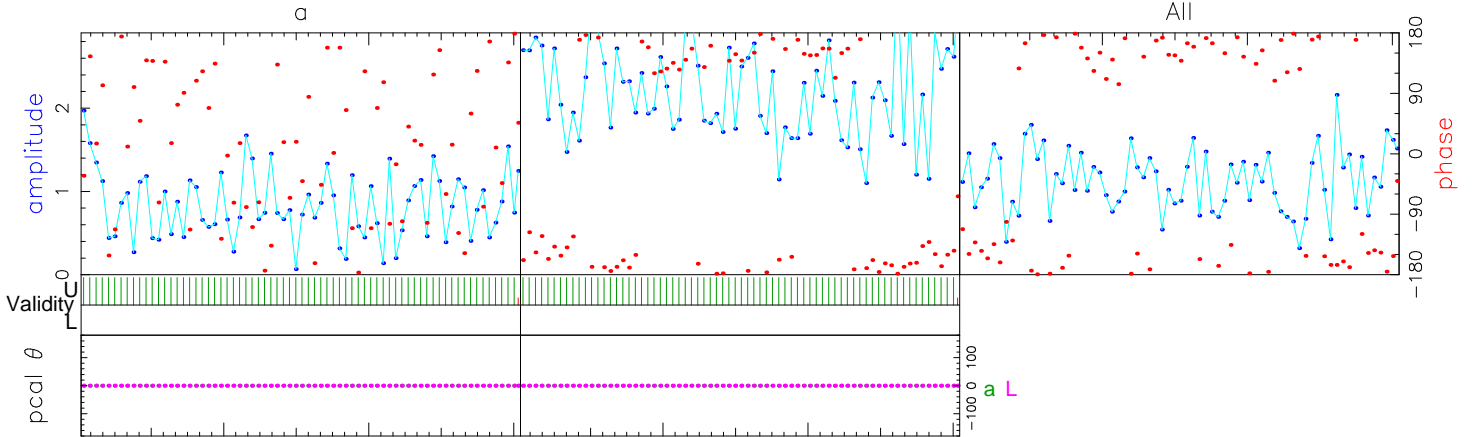
Fringe quality 7

SNR 17.7
Int time 179.855
Amp 0.968
Phase -179.8
PFD 0.0e+00
Delays (us)
SBD -0.061999
MBD -0.005023
Fringe rate (Hz)
0.111976
Ion TEC 0.000
Ref freq (MHz)
43168.0000
AP (sec) 0.512



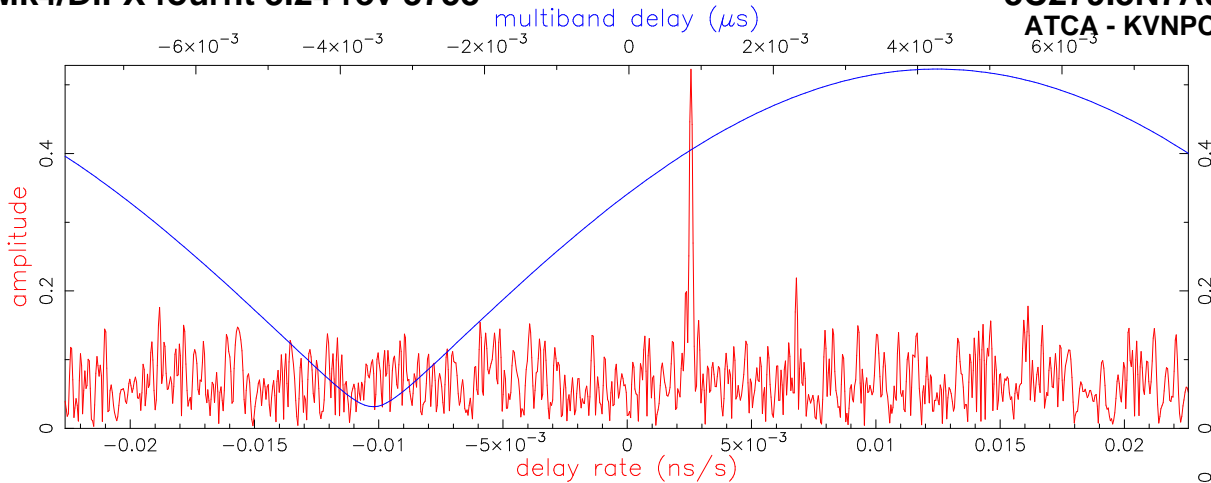
Exp. c241d
Exper # 1234
Yr:day 2024:114
Start 143001.00
Stop 143301.22
FRT 143131.00
Corr/FF/build
2025:049:064418
2025:051:103442
2023:348:201250
RA & Dec (J2000)
12h56m11.166579s
-5°47'21.525152"

Amp. and Phase vs. time for each freq., 71 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec



42912.00	42976.00	Freq (MHz)	All				
-176.0	-179.9	Phase	-179.8				
0.0	1.9	Ampl.	1.0				
255.7	241.0	Sbd box	241.1				
U/L 352/0	352/0	APs used					
a 0	0	PC freqs					
L 0	24000	PC freqs					
a:L 0:0	0:0	PC phase					
a:L 0:0	0:0	ManI PC					
a 1000	1000	PC amp					
L 1000	1000						
a Q00UR	Q01UR	Chan ids					
L Q00UR	Q01UR	Tracks					
		Chan ids					
		Tracks					
Group delay (usec) (SBD)	2.19629348777E+03	Apriori delay (usec)	2.19636101107E+03	Resid mbdelay (usec)	-5.02330E-03	+/-	2.8E-04
Sband delay (usec)	2.19629901207E+03	Apriori clock (usec)	-1.8522253E+01	Resid sbdelay (usec)	-6.19990E-02	+/-	4.9E-04
Phase delay (usec)	2.19636099949E+03	Apriori clockrate (us/s)	5.0388179E-06	Resid phdelay (usec)	-1.15726E-05	+/-	4.2E-07
Delay rate (us/s)	-4.80446978438E-01	Apriori rate (us/s)	-4.80449572395E-01	Resid rate (us/s)	2.59396E-06	+/-	4.0E-09
Total phase (deg)	-134.6	Apriori accel (us/s/s)	1.15331865361E-06	Resid phase (deg)	-179.8	+/-	6.5

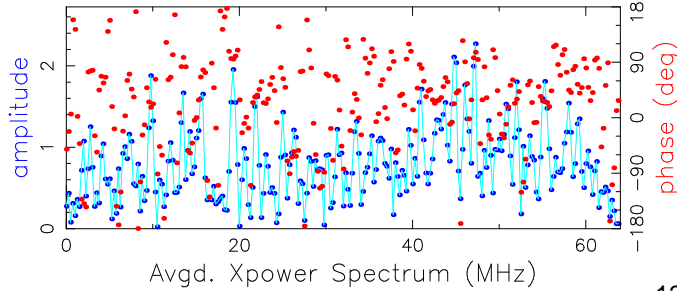
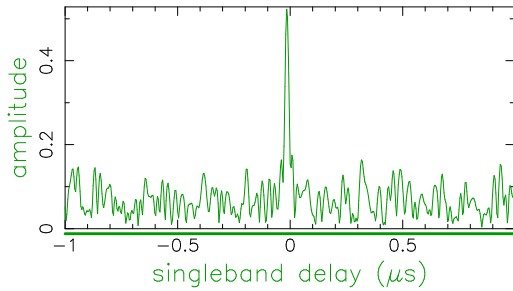
ph/seg (deg) 34.9 27.3 Search (1024X8) 0.968 +/- 0.055 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 42.6 47.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 0.0 4.6 Inc. seg. avg. 1.022 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 95.2 8.0 Inc. frq. avg. 0.964 Data rate(MSamp/s): 128 MBpts 8 Amb 0.016 us dr window (ns/s) -0.023 0.023
a: az 311.3 el 56.2 pa 139.2 L: az 185.4 el 46.4 pa 4.6 u,v (fr/asec) 1383.939 -4910.648 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234 Input file: /Exps/c241d/v2/7mm/1234/No1356/aL...3N7A0J Output file: /Exps/c241d/v2/7mm/1234/No1356/aL.Q.2.3N7A0J simultaneous interpolator



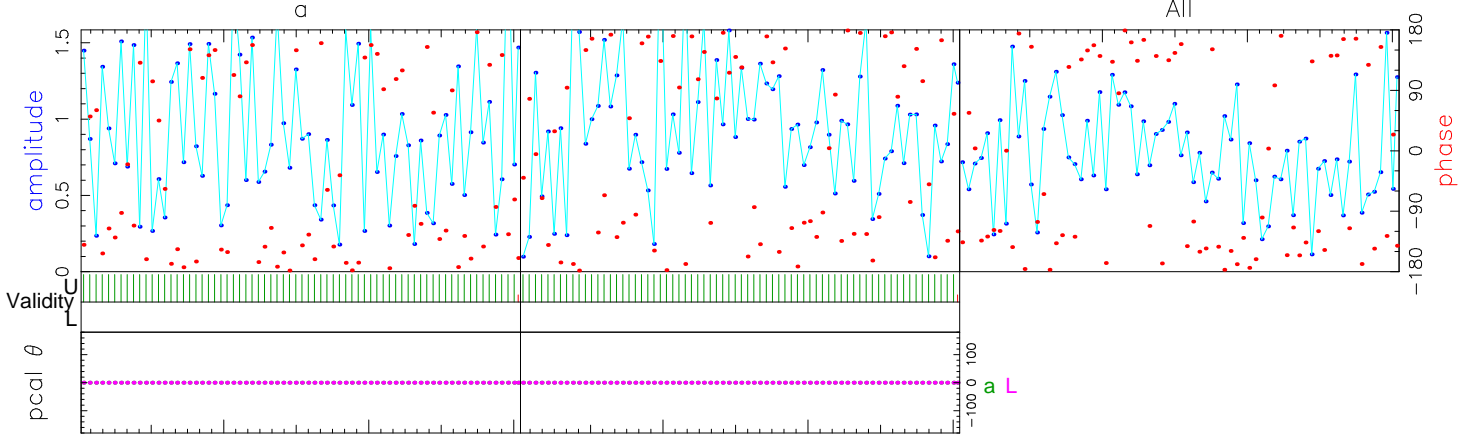
Fringe quality 9

SNR 9.6
Int time 179.855
Amp 0.528
Phase -172.0
PFD 2.9e-14
Delays (us)
SBD -0.014651
MBD 0.004345
Fringe rate (Hz) 0.111707
Ion TEC 0.000
Ref freq (MHz) 43168.0000
AP (sec) 0.512

Exp. c241d
Exper # 1234
Yr:day 2024:114
Start 143001.00
Stop 143301.22
FRT 143131.00
Corr/FF/build
2025:049:064418
2025:051:103443
2023:348:201250
RA & Dec (J2000)
12h56m11.166579s
-5°47'21.525152"



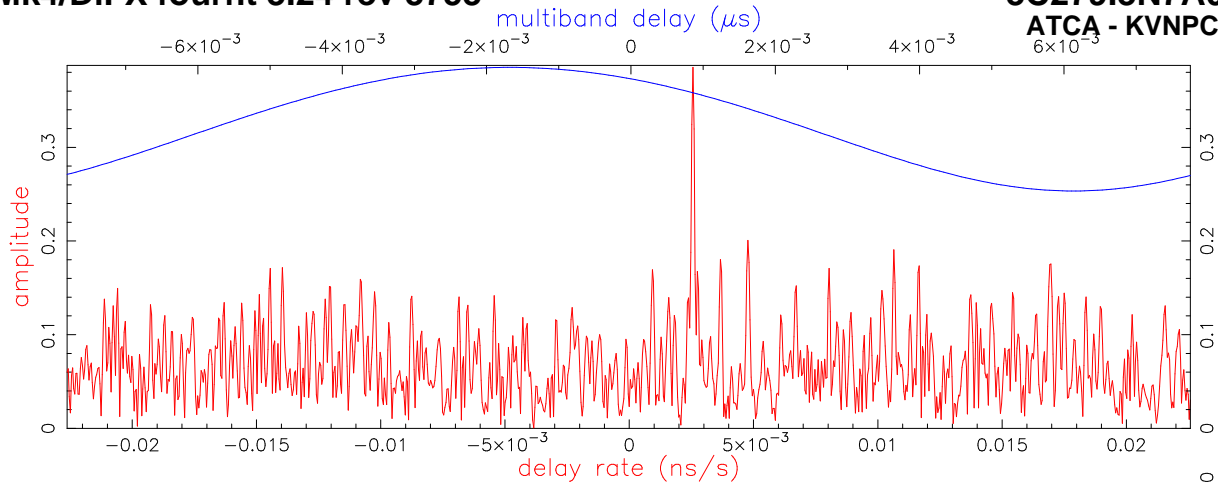
Amp. and Phase vs. time for each freq., 71 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec



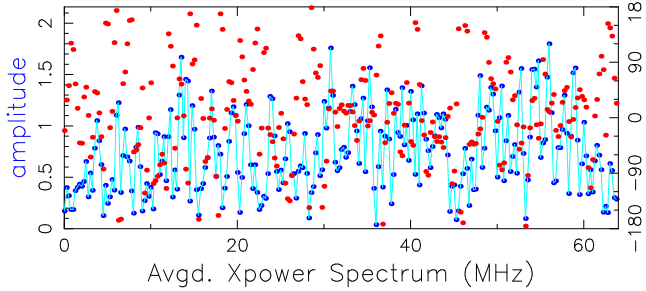
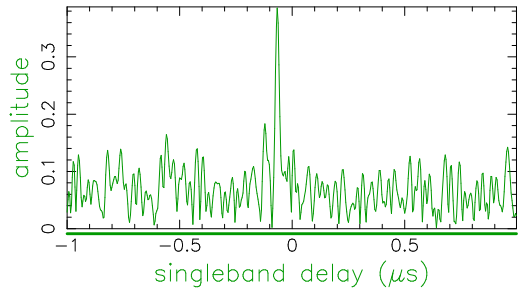
42912.00	42976.00	Freq (MHz)	All				
-171.2	-173.0	Phase	-172.0				
0.6	0.5	Ampl.	0.5				
252.6	253.9	Sbd box	253.2				
U/L 352/0	352/0	APs used					
a 0	0	PC freqs					
L 0	24000	PC freqs					
a:L 0:0	0:0	PC phase					
a:L 0:0	0:0	Manl PC					
a 1000	1000	PC amp					
L 1000	1000						
a Q00UL	Q01UL	Chan ids					
L Q00UR	Q01UR	Tracks					
		Chan ids					
		Tracks					
Group delay (usec) (SBD)	2.19634973127E+03	Apriori delay (usec)	2.19636101107E+03	Resid mbdelay (usec)	4.34520E-03	+/-	5.2E-04
Sband delay (usec)	2.19634636032E+03	Apriori clock (usec)	-1.8522253E+01	Resid sbdelay (usec)	-1.46507E-02	+/-	8.9E-04
Phase delay (usec)	2.19636100000E+03	Apriori clockrate (us/s)	5.0388179E-06	Resid phdelay (usec)	-1.10707E-05	+/-	7.7E-07
Delay rate (us/s)	-4.80446984670E-01	Apriori rate (us/s)	-4.80449572395E-01	Resid rate (us/s)	2.58772E-06	+/-	7.4E-09
Total phase (deg)	-126.8	Apriori accel (us/s/s)	1.15331865361E-06	Resid phase (deg)	-172.0	+/-	11.9
RMS	Theor.	Amplitude	0.528 +/- 0.055	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	61.1	Search (1024X8)	0.501	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000
amp/seg (%)	75.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	0.0	Inc. seg. avg.	0.561	Data rate(MSamp/s): 128 MBpts 8 Amb 0.016 us	dr window (ns/s)	-0.023	0.023
amp/frq (%)	6.0	Inc. frq. avg.	0.520	Data rate(Mb/s): 512	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00
a: az 311.3 el 56.2 pa 139.2	L: az 185.4 el 46.4 pa 4.6	u, v (fr/asec)	1383.939 -4910.648				simultaneous interpolator
Control file: cf_1234	Input file: /Exps/c241d/v2/7mm/1234/No1356/aL...3N7A0J	Output file: /Exps/c241d/v2/7mm/1234/No1356/aL.Q.4.3N7A0J					

Mk4/DiFX fourfit 3.24 rev 3753

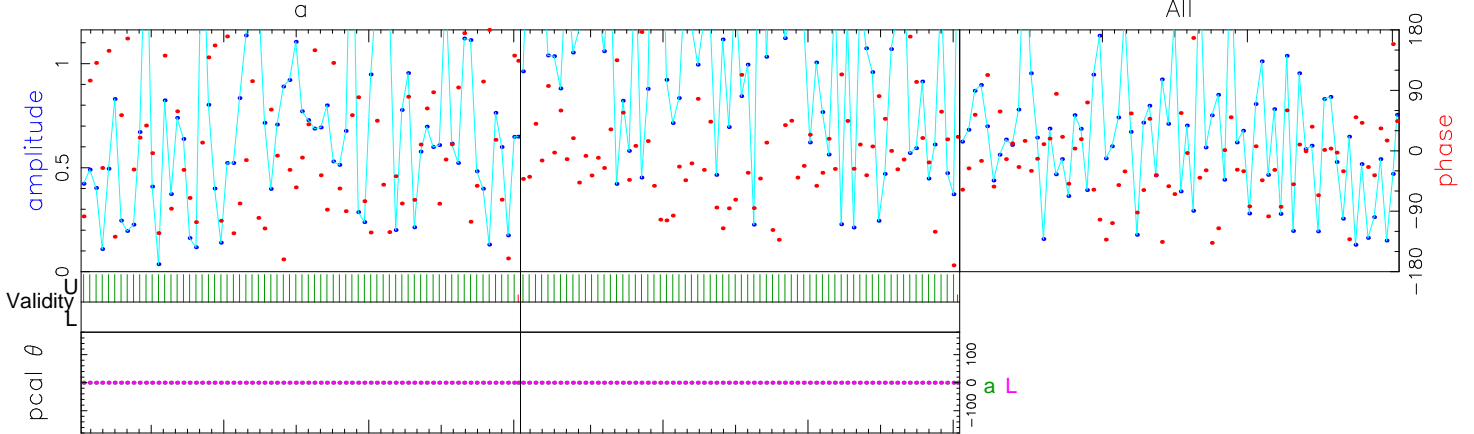
3C279.3N7A0J, No1356, aL
ATCA - KVNPC, fgroup Q, pol RL



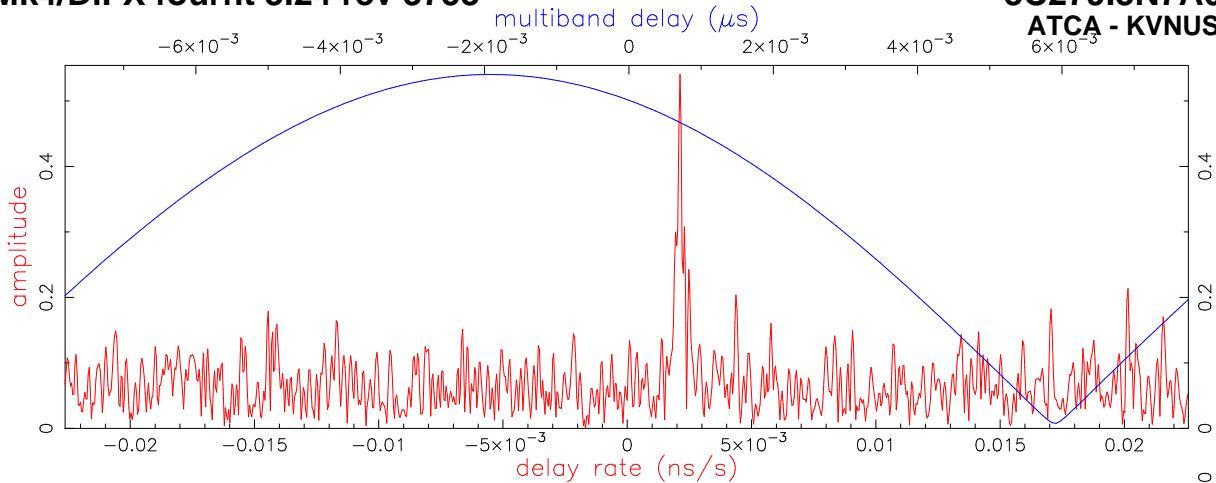
Fringe quality 9
SNR 7.1
Int time 179.855
Amp 0.387
Phase -16.0
PFD 6.0e-05
Delays (us)
SBD -0.066198
MBD -0.001614
Fringe rate (Hz) 0.110957
Ion TEC 0.000
Ref freq (MHz) 43168.0000
AP (sec) 0.512
Exp. c241d
Exper # 1234
Yr:day 2024:114
Start 143001.00
Stop 143301.22
FRT 143131.00
Corr/FF/build
2025:049:064418
2025:051:103443
2023:348:201250
RA & Dec (J2000)
12h56m11.166579s
-5°47'21.525152"



Amp. and Phase vs. time for each freq., 71 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec

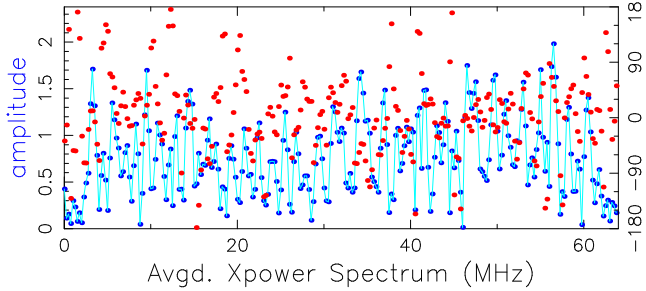
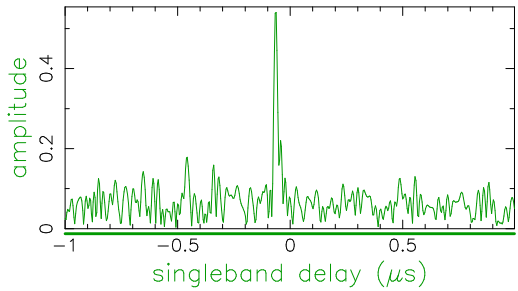


42912.00	42976.00	Freq (MHz)	All					
-14.7	-16.3	Phase	-16.0					
0.1	0.6	Ampl.	0.4					
257.9	240.1	Sbd box	240.1					
U/L 352/0	352/0	APs used						
a 0	0	PC freqs						
L 0	24000	PC freqs						
a:L 0:0	0:0	PC phase						
a:L 0:0	0:0	Manl PC						
a 1000	1000	PC amp						
L 1000	1000							
a Q00UR	Q01UR	Chan ids						
L Q00UL	Q01UL	Tracks						
		Chan ids						
		Tracks						
Group delay (usec) (SBD)	2.19629689680E+03	Apriori delay (usec)	2.19636101107E+03	Resid mbdelay (usec)	-1.61426E-03	+/-	7.0E-04	
Sband delay (usec)	2.19629481257E+03	Apriori clock (usec)	-1.8522253E+01	Resid sbdelay (usec)	-6.61985E-02	+/-	1.2E-03	
Phase delay (usec)	2.19636101004E+03	Apriori clockrate (us/s)	5.0388179E-06	Resid phdelay (usec)	-1.03065E-06	+/-	1.0E-06	
Delay rate (us/s)	-4.80447002050E-01	Apriori rate (us/s)	-4.80449572395E-01	Resid rate (us/s)	2.57035E-06	+/-	1.0E-08	
Total phase (deg)	29.2	Apriori accel (us/s/s)	1.15331865361E-06	Resid phase (deg)	-16.0	+/-	16.2	
				Resid mbdelay (usec)	-1.61426E-03	+/-	7.0E-04	
				Resid sbdelay (usec)	-6.61985E-02	+/-	1.2E-03	
				Resid phdelay (usec)	-1.03065E-06	+/-	1.0E-06	
				Resid rate (us/s)	2.57035E-06	+/-	1.0E-08	
				Resid phase (deg)	-16.0	+/-	16.2	
ph/seg (deg)	RMS 62.8	Theor. 68.3	Amplitude Search (1024X8)	0.387 +/- 0.055	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	109.9	119.2	Interp.	0.000	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	11.5	Inc. seg. avg.	0.386	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	65.7	20.0	Inc. frq. avg.	0.380	Data rate(MSamp/s): 128 MBpts 8 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
					Data rate(Mb/s): 512	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00
a: az 311.3 el 56.2 pa 139.2	L: az 185.4 el 46.4 pa 4.6	u, v (fr/asec)	1383.939 -4910.648				simultaneous interpolator	
Control file: cf_1234	Input file: /Exps/c241d/v2/7mm/1234/No1356/aL...3N7A0J	Output file: /Exps/c241d/v2/7mm/1234/No1356/aL.Q.6.3N7A0J						



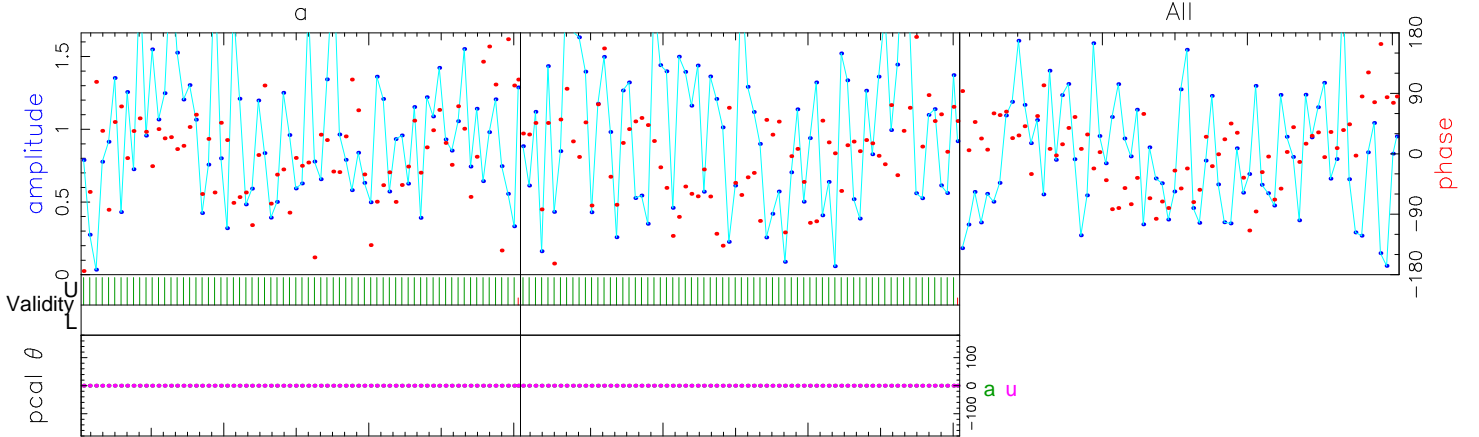
Fringe quality 9

SNR 10.1
Int time 179.844
Amp 0.554
Phase 2.1
PFD 2.2e-16
Delays (us)
SBD -0.064382
MBD -0.001861
Fringe rate (Hz)
0.091234
Ion TEC 0.000
Ref freq (MHz)
43168.0000
AP (sec) 0.512



Exp. c241d
Exper # 1234
Yr:day 2024:114
Start 143001.00
Stop 143301.22
FRT 143131.00
Corr/FF/build
2025:049:064418
2025:051:103459
2023:348:201250
RA & Dec (J2000)
12h56m11.166579s
-5°47'21.525152"

Amp. and Phase vs. time for each freq., 71 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec



42912.00	42976.00	Freq (MHz)	All
2.7	1.5	Phase	2.1
0.5	0.5	Ampl.	0.5
241.0	240.0	Sbd box	240.5
U/L 352/0	352/0	APs used	
a 0	0	PC freqs	
u 0	24000	PC freqs	
a:u 0:0	0:0	PC phase	
a:u 0:0	0:0	Manl PC	
a 1000	1000	PC amp	
u 1000	1000		
a Q00UL	Q01UL	Chan ids	
u Q00UL	Q01UL	Tracks	
		Chan ids	
		Tracks	

Group delay (usec) (SBD)	1.69054357421E+03	Apriori delay (usec)	1.69060793513E+03	Resid mbdelay (usec)	-1.86092E-03	+/-	4.9E-04
Sband delay (usec)	1.69054355338E+03	Apriori clock (usec)	-4.8495918E+01	Resid sbdelay (usec)	-6.43817E-02	+/-	8.5E-04
Phase delay (usec)	1.69060793526E+03	Apriori clockrate (us/s)	-2.3561199E-06	Resid phdelay (usec)	1.33924E-07	+/-	7.3E-07
Delay rate (us/s)	-4.60673050558E-01	Apriori rate (us/s)	-4.60675164014E-01	Resid rate (us/s)	2.11346E-06	+/-	7.0E-09
Total phase (deg)	125.8	Apriori accel (us/s/s)	3.35849428640E-06	Resid phase (deg)	2.1	+/-	11.3

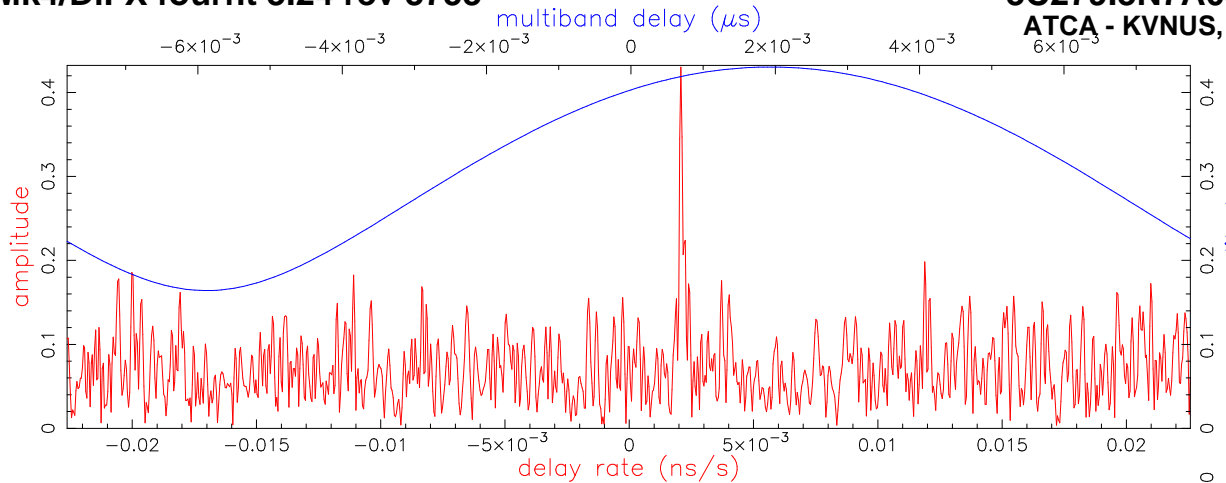
ph/seg (deg)	RMS 56.0	Theor. 47.7	Amplitude Search (1024X8)	0.554 +/- 0.055	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	86.1	83.2	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	0.0	8.0	Inc. seg. avg.	0.605	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	2.5	14.0	Inc. frq. avg.	0.537	Data rate(MSamp/s): 128 MBpts 8 Amb 0.016 us	nlags: 256 t_cohere infinite	dr window (ns/s)	-0.023 0.023
					Data rate(Mb/s): 512		ion window (TEC)	0.00 0.00

a: az 311.3 el 56.2 pa 139.2 u: az 186.8 el 48.3 pa 5.8 u,v (fr/asec) 1327.497 -4796.428 simultaneous interpolator

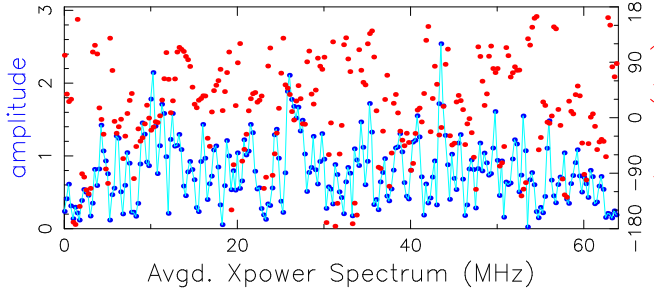
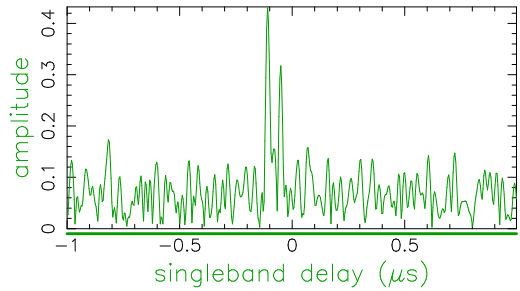
Control file: cf_1234 Input file: /Exps/c241d/v2/7mm/1234/No1356/au..3N7A0J Output file: /Exps/c241d/v2/7mm/1234/No1356/au.Q.14.3N7A0J

Mk4/DiFX fourfit 3.24 rev 3753

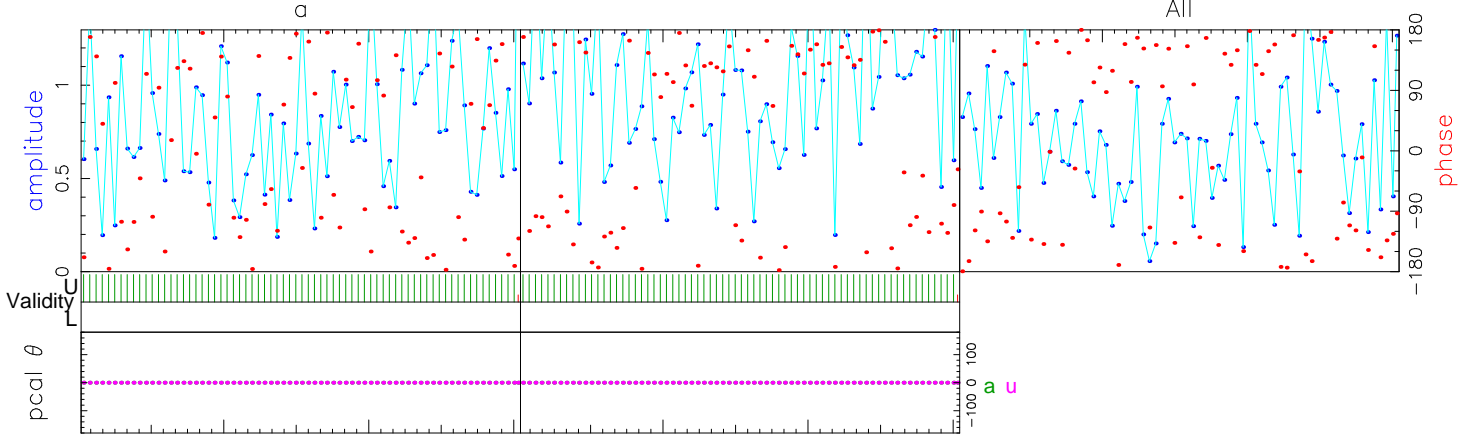
3C279.3N7A0J, No1356, au
ATCA - KVNUS, fgroup Q, pol RR



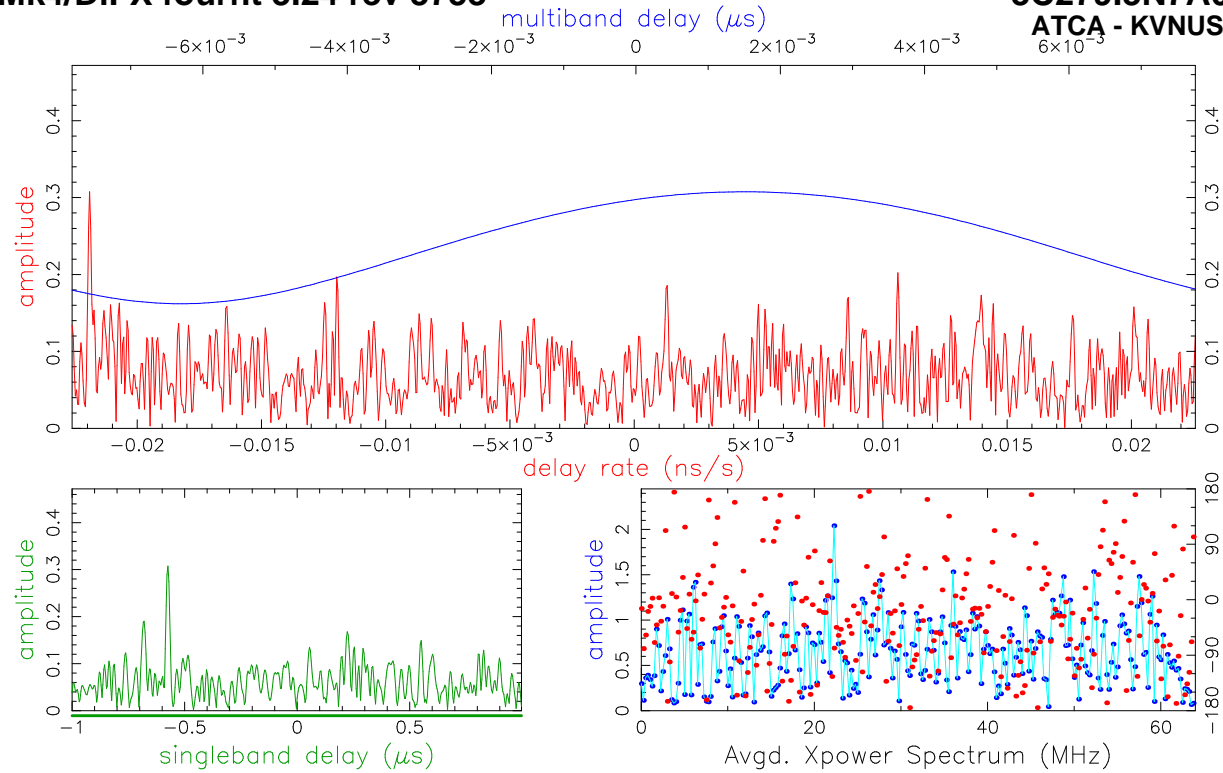
Fringe quality 9
SNR 7.9
Int time 179.844
Amp 0.432
Phase -173.6
PFD 1.2e-07
Delays (us)
SBD -0.108945
MBD 0.001914
Fringe rate (Hz) 0.090997
Ion TEC 0.000
Ref freq (MHz) 43168.0000
AP (sec) 0.512
Exp. c241d
Exper # 1234
Yr:day 2024:114
Start 143001.00
Stop 143301.22
FRT 143131.00
Corr/FF/build
2025:049:064418
2025:051:103500
2023:348:201250
RA & Dec (J2000)
12h56m11.166579s
-5°47'21.525152"



Amp. and Phase vs. time for each freq., 71 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec

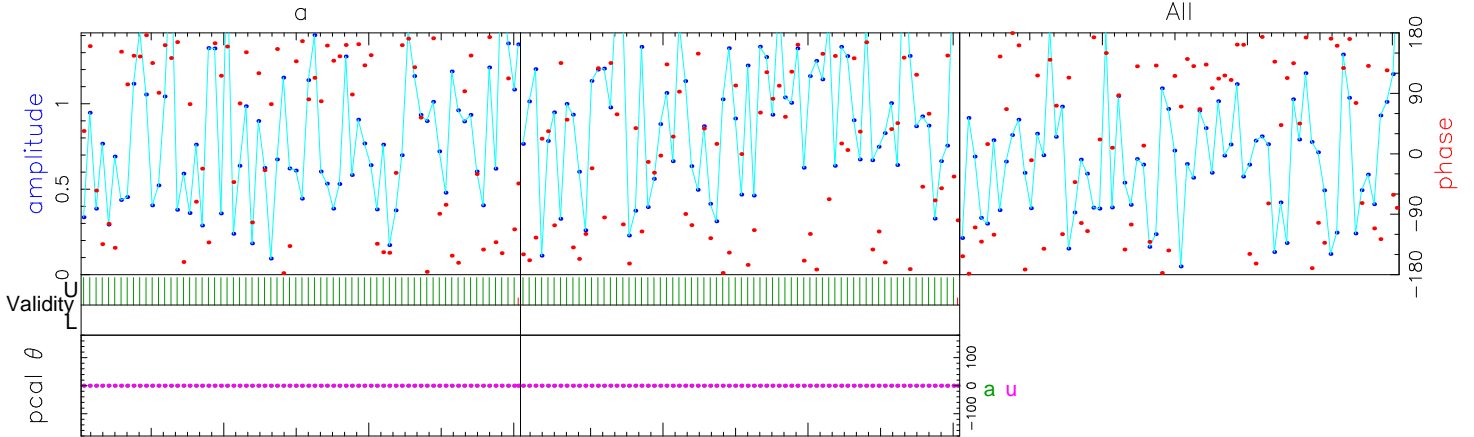


42912.00	42976.00	Freq (MHz)	All				
-173.9	-173.5	Phase	-173.6				
0.3	0.6	Ampl.	0.4				
243.7	229.5	Sbd box	229.1				
U/L 352/0	352/0	APs used					
a 0	0	PC freqs					
u 0	24000	PC freqs					
a:u 0:0	0:0	PC phase					
a:u 0:0	0:0	Manl PC					
a 1000	1000	PC amp					
u 1000	1000						
a Q00UR	Q01UR	Chan ids					
u Q00UR	Q01UR	Tracks					
		Chan ids					
		Tracks					
Group delay (usec) (SBD)	1.69050047421E+03	Apriori delay (usec)	1.69060793513E+03	Resid mbdelay (usec)	1.91408E-03	+/-	6.3E-04
Sband delay (usec)	1.69049898963E+03	Apriori clock (usec)	-4.8495918E+01	Resid sbdelay (usec)	-1.08945E-01	+/-	1.1E-03
Phase delay (usec)	1.69060792396E+03	Apriori clockrate (us/s)	-2.3561199E-06	Resid phdelay (usec)	-1.11698E-05	+/-	9.3E-07
Delay rate (us/s)	-4.60673056044E-01	Apriori rate (us/s)	-4.60675164014E-01	Resid rate (us/s)	2.10797E-06	+/-	9.0E-09
Total phase (deg)	-49.9	Apriori accel (us/s/s)	3.35849428640E-06	Resid phase (deg)	-173.6	+/-	14.5
				PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	64.3	Theor. Amplitude	0.432 +/- 0.055	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000
amp/seg (%)	100.3	Search (1024X8)	0.419	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	0.0	Interp.	0.000	Data rate(MSamp/s): 128 MBpts 8 Amb 0.016 us	dr window (ns/s)	-0.023	0.023
amp/frq (%)	38.1	Inc. seg. avg.	0.449	Data rate(Mb/s): 512	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00
		Inc. frq. avg.	0.425				
a: az 311.3 el 56.2 pa 139.2	u: az 186.8 el 48.3 pa 5.8						
		u, v (fr/asec)	1327.497 -4796.428				simultaneous interpolator
Control file: cf_1234	Input file: /Exps/c241d/v2/7mm/1234/No1356/au...3N7A0J	Output file: /Exps/c241d/v2/7mm/1234/No1356/au.Q.17.3N7A0J					



Fringe quality 0
SNR 5.7
Int time 179.844
Amp 0.472
Phase 163.0
PFD 3.9e-01
Delays (us)
SBD -0.574820
MBD 0.001576
Fringe rate (Hz)
-0.951230
Ion TEC 0.000
Ref freq (MHz)
43168.0000
AP (sec) 0.512
Exp. c241d
Exper # 1234
Yr:day 2024:114
Start 143001.00
Stop 143301.22
FRT 143131.00
Corr/FF/build
2025:049:064418
2025:051:103500
2023:348:201250
RA & Dec (J2000)
12h56m11.166579s
-5°47'21.525152"

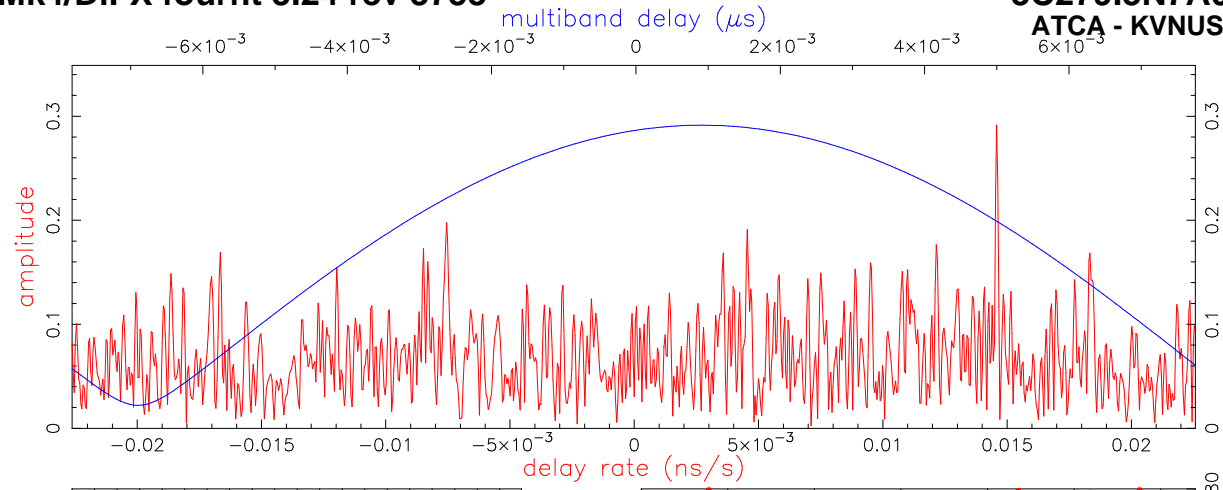
Amp. and Phase vs. time for each freq., 71 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec



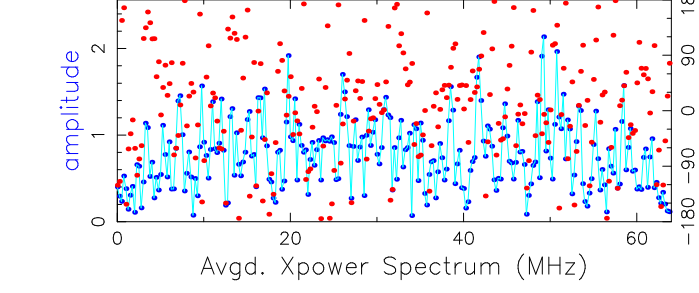
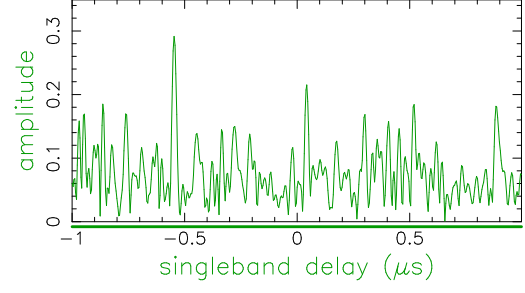
42912.00	42976.00	Freq (MHz)	All				
163.3	161.8	Phase	163.0				
0.7	0.2	Ampl.	0.5				
110.1	321.7	Sbd box	109.8				
U/L 352/0	352/0	APs used					
a 0	0	PC freqs					
u 0	24000	PC freqs					
a:u 0:0	0:0	PC phase					
a:u 0:0	0:0	Manl PC					
a 1000	1000	PC amp					
u 1000	1000						
a Q00UL	Q01UL	Chan ids					
u Q00UR	Q01UR	Tracks					
		Chan ids					
		Tracks					
Group delay (usec) (SBD)	1.69003138583E+03	Apriori delay (usec)	1.69060793513E+03	Resid mbdelay (usec)	1.57570E-03	+/-	8.8E-04
Sband delay (usec)	1.69003311538E+03	Apriori clock (usec)	-4.8495918E+01	Resid sbdelay (usec)	-5.74820E-01	+/-	1.5E-03
Phase delay (usec)	1.69060794561E+03	Apriori clockrate (us/s)	-2.3561199E-06	Resid phdelay (usec)	1.04861E-05	+/-	1.3E-06
Delay rate (us/s)	-4.60697199539E-01	Apriori rate (us/s)	-4.60675164014E-01	Resid rate (us/s)	-2.20355E-05	+/-	1.3E-08
Total phase (deg)	286.6	Apriori accel (us/s/s)	3.35849428640E-06	Resid phase (deg)	163.0	+/-	20.3
				Resid mode: MANUAL, MANUAL			PC period (AP's) 5, 5
ph/seg (deg)	75.4	Theor. Amplitude	0.472 +/- 0.084	Pcal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us) -1.000 1.000
amp/seg (%)	159.0	Search (1024X8)	0.301	Bits/sample: 2x2	SampCntNorm: enabled		mb window (us) -0.008 0.008
ph/frq (deg)	0.0	Inc. seg. avg.	0.487	Data rate(MSamp/s): 128 MBpts 8 Amb 0.016 us			dr window (ns/s) -0.023 0.023
amp/frq (%)	52.6	Inc. frq. avg.	0.457	Data rate(Mb/s): 512	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00
a: az 311.3 el 56.2 pa 139.2	u: az 186.8 el 48.3 pa 5.8	u, v (fr/asec)	1327.497 -4796.428				simultaneous interpolator
Control file: cf_1234	Input file: /Exps/c241d/v2/7mm/1234/No1356/au..3N7A0J	Output file: /Exps/c241d/v2/7mm/1234/No1356/au.Q.19.3N7A0J					

Mk4/DiFX fourfit 3.24 rev 3753

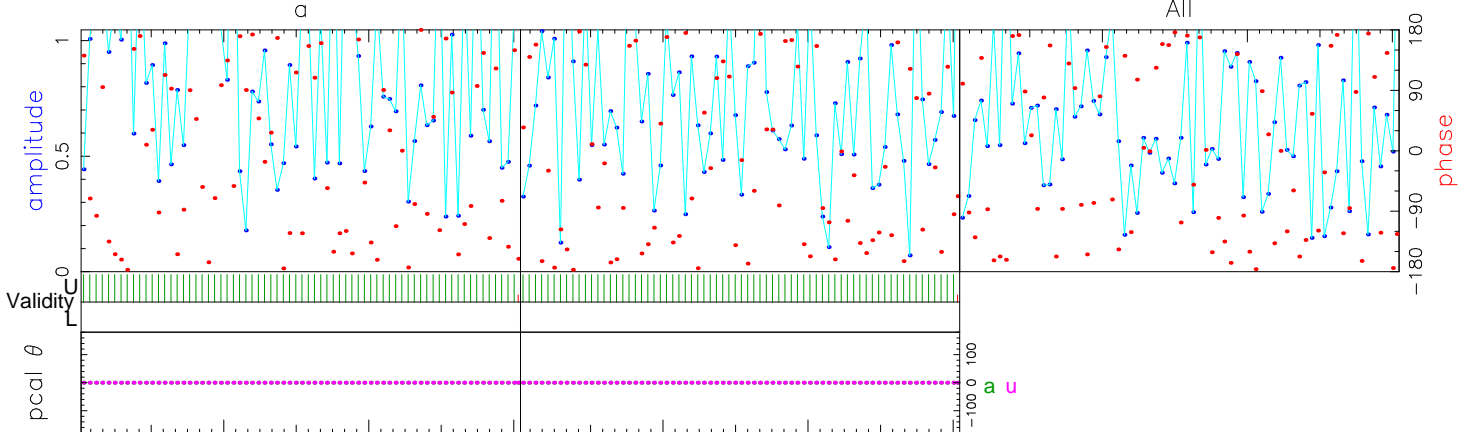
3C279.3N7A0J, No1356, au
ATCA - KVNUS, fgroup Q, pol RL



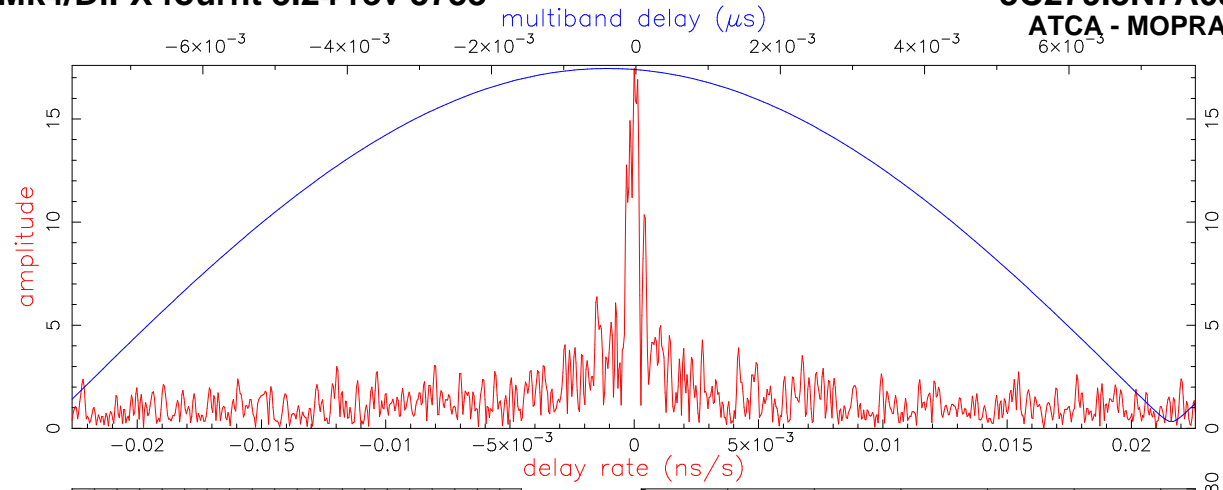
Fringe quality 0
SNR 5.3
Int time 179.844
Amp 0.349
Phase -165.6
PFD 9.2e-01
Delays (us)
SBD -0.546402
MBD 0.000925
Fringe rate (Hz) 0.632995
Ion TEC 0.000
Ref freq (MHz) 43168.0000
AP (sec) 0.512
Exp. c241d
Exper # 1234
Yr:day 2024:114
Start 143001.00
Stop 143301.22
FRT 143131.00
Corr/FF/build 2025:049:064418
2025:051:103501
2023:348:201250
RA & Dec (J2000) 12h56m11.166579s
-5°47'21.525152"



Amp. and Phase vs. time for each freq., 71 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec



42912.00	42976.00	Freq (MHz)	All				
-165.4	-165.7	Phase	-165.6				
0.3	0.4	Ampl.	0.3				
268.0	117.6	Sbd box	117.1				
U/L 352/0	352/0	APs used					
a 0	0	PC freqs					
u 0	24000	PC freqs					
a:u 0:0	0:0	PC phase					
a:u 0:0	0:0	Manl PC					
a 1000	1000	PC amp					
u 1000	1000						
a Q00UR	Q01UR	Chan ids					
u Q00UL	Q01UL	Tracks					
		Chan ids					
		Tracks					
Group delay (usec) (SBD)	1.69006198472E+03	Apriori delay (usec)	1.69060793513E+03	Resid mbdelay (usec)	9.24597E-04	+/-	9.3E-04
Sband delay (usec)	1.69006153313E+03	Apriori clock (usec)	-4.8495918E+01	Resid sbdelay (usec)	-5.46402E-01	+/-	1.6E-03
Phase delay (usec)	1.69060792447E+03	Apriori clockrate (us/s)	-2.3561199E-06	Resid phdelay (usec)	-1.06531E-05	+/-	1.4E-06
Delay rate (us/s)	-4.60660500488E-01	Apriori rate (us/s)	-4.60675164014E-01	Resid rate (us/s)	1.46635E-05	+/-	1.3E-08
Total phase (deg)	-41.9	Apriori accel (us/s/s)	3.35849428640E-06	Resid phase (deg)	-165.6	+/-	21.4
RMS	79.1	Theor.	90.3	Amplitude	0.349 +/- 0.065		
ph/seg (deg)	79.1	Search (1024X8)	0.289	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	165.3	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.345	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	7.6	Inc. frq. avg.	0.337	Data rate(MSamp/s):	128 MBpts 8 Amb 0.016 us	dr window (ns/s)	-0.023 0.023
				Data rate(Mb/s):	512	nlags: 256 t_cohere infinite	ion window (TEC) 0.00 0.00
a: az 311.3 el 56.2 pa 139.2	u: az 186.8 el 48.3 pa 5.8	u, v (fr/asec)	1327.497 -4796.428				simultaneous interpolator
Control file: cf_1234	Input file: /Exps/c241d/v2/7mm/1234/No1356/au...3N7A0J	Output file:	/Exps/c241d/v2/7mm/1234/No1356/au.Q.21.3N7A0J				



Fringe quality 5

SNR 322.8

Int time 179.973

Amp 17.599

Phase -5.2

PFD 0.0e+00

Delays (us)

SBD -0.010474

MBD -0.000364

Fringe rate (Hz) 0.000841

Ion TEC 0.000

Ref freq (MHz) 43168.0000

AP (sec) 0.512

Exp. c241d

Exper # 1234

Yr:day 2024:114

Start 143001.00

Stop 143301.22

FRT 143131.00

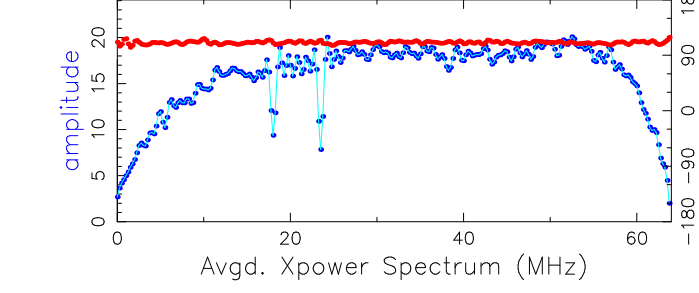
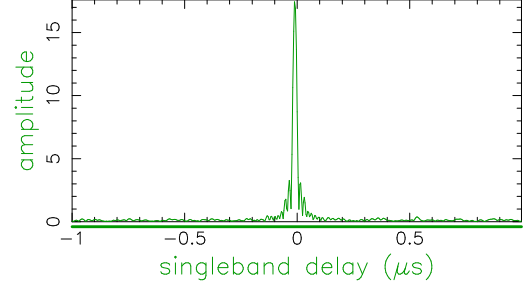
Corr/FF/build

2025:049:064418

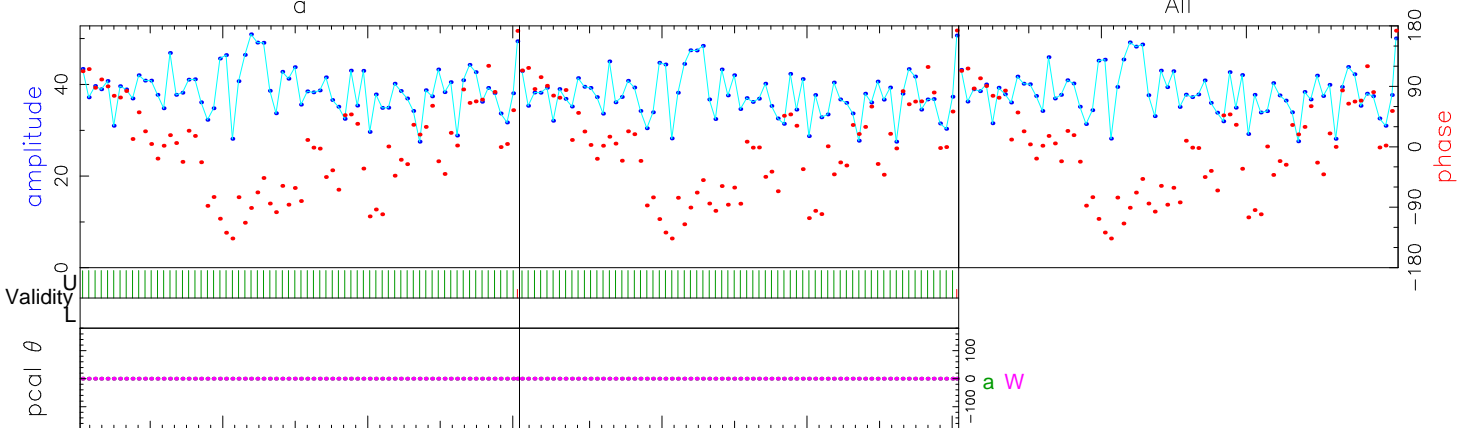
2025:051:103459

2023:348:201250

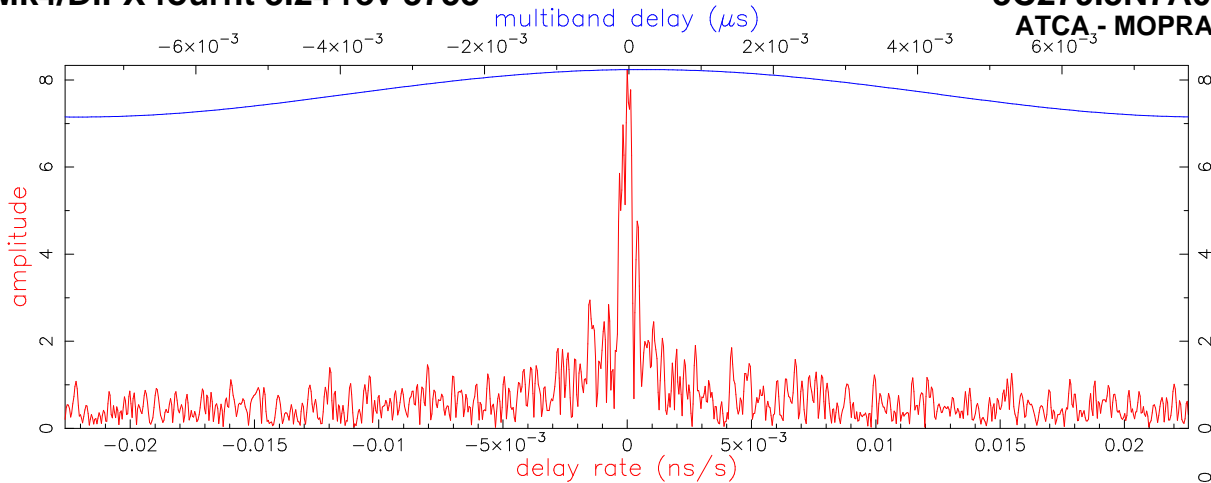
RA & Dec (J2000) 12h56m11.166579s --5°47'21.525152"



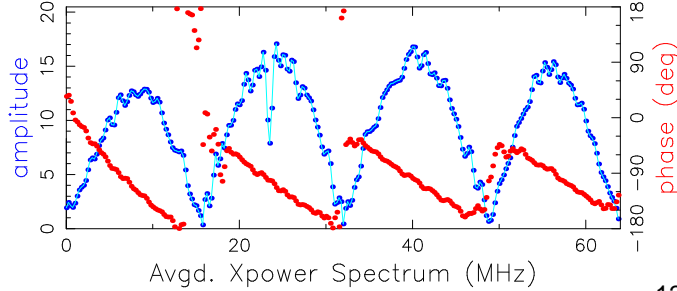
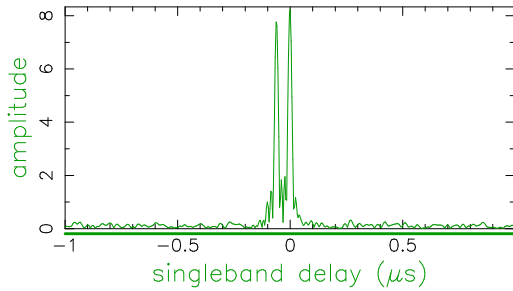
Amp. and Phase vs. time for each freq., 71 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec



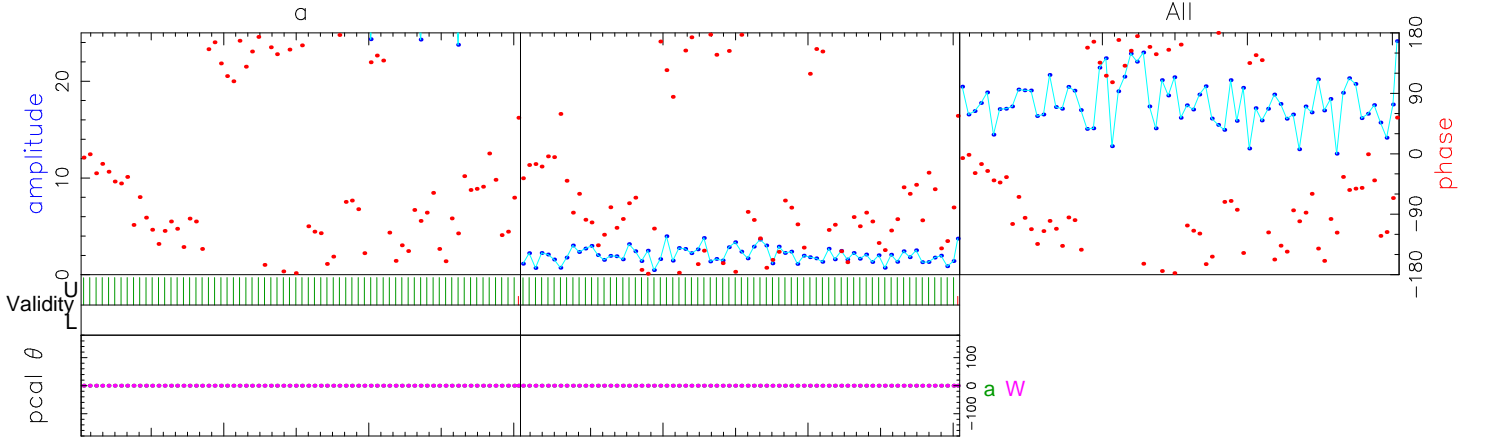
42912.00	42976.00	Freq (MHz)	All						
-4.9	-5.6	Phase	-5.2						
17.8	17.1	Ampl.	17.4						
254.3	254.3	Sbd box	254.3						
U/L 352/0	352/0	APs used							
a 0	0	PC freqs							
W 0	0	PC freqs							
a:W 0:0	0:0	PC phase							
a:W 0:0	0:0	Manl PC							
a 1000	1000	PC amp							
W 1000	1000								
a Q00UL	Q01UL	Chan ids							
W Q00UL	Q01UL	Tracks							
		Chan ids							
		Tracks							
Group delay (usec) (SBD)	2.20567948152E+01	Apriori delay (usec)	2.20727835652E+01	Resid mbdelay (usec)	-3.63750E-04	+/-	1.5E-05		
Sband delay (usec)	2.20623093152E+01	Apriori clock (usec)	-4.5529686E+01	Resid sbdelay (usec)	-1.04742E-02	+/-	2.7E-05		
Phase delay (usec)	2.20727832300E+01	Apriori clockrate (us/s)	4.7520001E-07	Resid phdelay (usec)	-3.35193E-07	+/-	2.3E-08		
Delay rate (us/s)	-1.52522667156E-02	Apriori rate (us/s)	-1.52522861935E-02	Resid rate (us/s)	1.94779E-08	+/-	2.2E-10		
Total phase (deg)	326.3	Apriori accel (us/s/s)	-5.26527934782E-07	Resid phase (deg)	-5.2	+/-	0.4		
RMS	Theor.	Amplitude	17.599 +/- 0.055	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
ph/seg (deg)	67.0	1.5	Search (1024X8)	16.888	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
amp/seg (%)	119.7	2.6	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	0.0	0.3	Inc. seg. avg.	38.110	Data rate(MSamp/s):	128 MBpts 8 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
amp/frq (%)	2.0	0.4	Inc. frq. avg.	17.448	Data rate(Mb/s):	512	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00
a: az 311.3 el 56.2 pa 139.2	W: az 313.0 el 55.9 pa 140.9	u,v (fr/asec)	43.909 65.531					simultaneous interpolator	
Control file: cf_1234	Input file: /Exps/c241d/v2/7mm/1234/No1356/aW..3N7A0J	Output file: /Exps/c241d/v2/7mm/1234/No1356/aW.Q.13.3N7A0J							



Fringe quality 3
 Error code G
 SNR 152.9
 Int time 179.973
 Amp 8.335
 Phase -122.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.001408
 MBD 0.000121
 Fringe rate (Hz)
 0.000871
 Ion TEC 0.000
 Ref freq (MHz)
 43168.0000
 AP (sec) 0.512
 Exp. c241d
 Exper # 1234
 Yr:day 2024:114
 Start 143001.00
 Stop 143301.22
 FRT 143131.00
 Corr/FF/build
 2025:049:064418
 2025:051:103459
 2023:348:201250
 RA & Dec (J2000)
 12h56m11.166579s
 -5°47'21.525152"

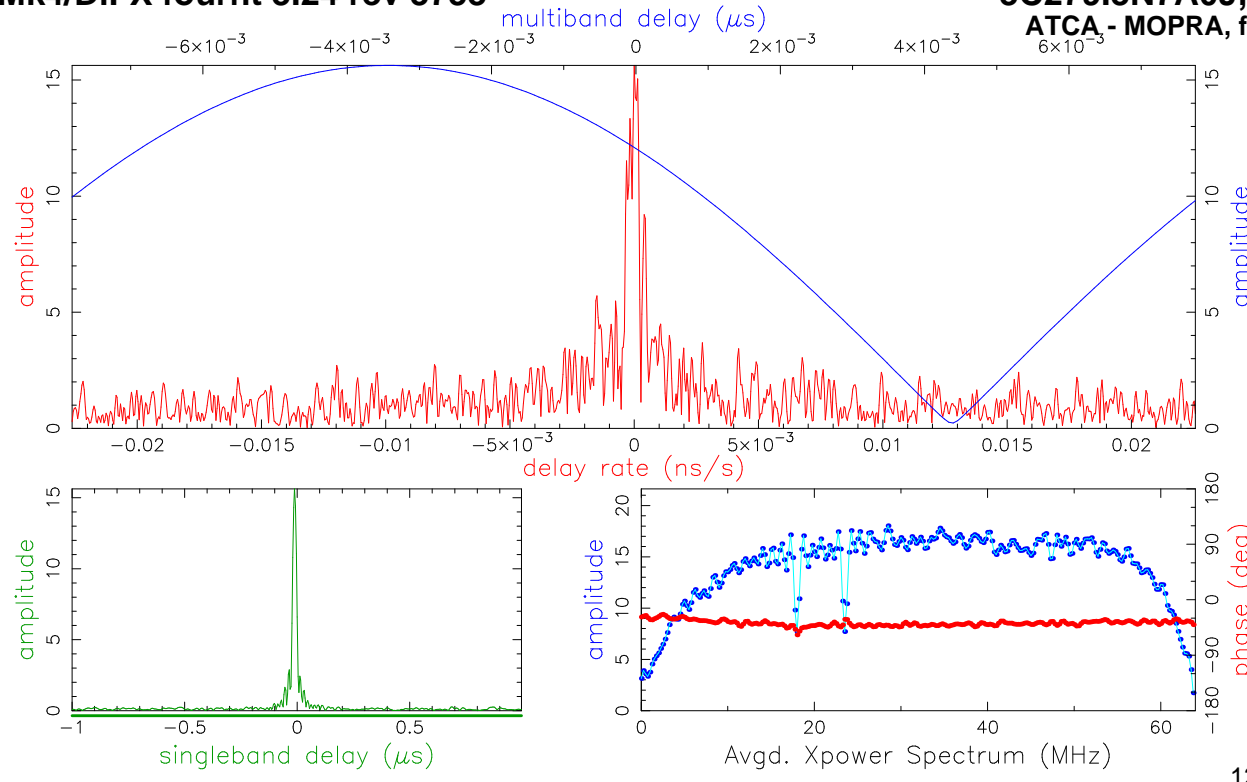


Amp. and Phase vs. time for each freq., 71 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec



42912.00	42976.00	Freq (MHz)	All				
-122.5	-120.9	Phase	-122.4				
15.4	1.1	Ampl.	8.2				
256.7	241.4	Sbd box	256.6				
U/L 352/0	352/0	APs used					
a 0	0	PC freqs					
W 0	0	PC freqs					
a:W 0:0	0:0	PC phase					
a:W 0:0	0:0	Manl PC					
a 1000	1000	PC amp					
W 1000	1000						
a Q00UR	Q01UR	Chan ids					
W Q00UR	Q01UR	Tracks					
		Chan ids					
		Tracks					
Group delay (usec) (SBD)	2.20729040652E+01	Apriori delay (usec)	2.20727835652E+01	Resid mbdelay (usec)	1.20500E-04	+/-	3.3E-05
Sband delay (usec)	2.20713755652E+01	Apriori clock (usec)	-4.5529686E+01	Resid sbdelay (usec)	-1.40800E-03	+/-	5.6E-05
Phase delay (usec)	2.20727756890E+01	Apriori clockrate (us/s)	4.7520001E-07	Resid phdelay (usec)	-7.87628E-06	+/-	4.8E-08
Delay rate (us/s)	-1.52522660200E-02	Apriori rate (us/s)	-1.52522861935E-02	Resid rate (us/s)	2.01735E-08	+/-	4.6E-10
Total phase (deg)	209.1	Apriori accel (us/s/s)	-5.26527934782E-07	Resid phase (deg)	-122.4	+/-	0.7

ph/seg (deg) 66.6 3.2 Theor. Amplitude 8.335 +/- 0.055 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 115.8 5.5 Search (1024X8) 7.978 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 85.8 0.9 Inc. seg. avg. 17.679 Data rate(MSamp/s): 128 MBpts 8 Amb 0.016 us dr window (ns/s) -0.023 0.023
 a: az 311.3 el 56.2 pa 139.2 W: az 313.0 el 55.9 pa 140.9 u,v (fr/asec) 43.909 65.531 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234 Input file: /Exps/c241d/v2/7mm/1234/No1356/aW..3N7A0J Output file: /Exps/c241d/v2/7mm/1234/No1356/aW.Q.15.3N7A0J simultaneous interpolator

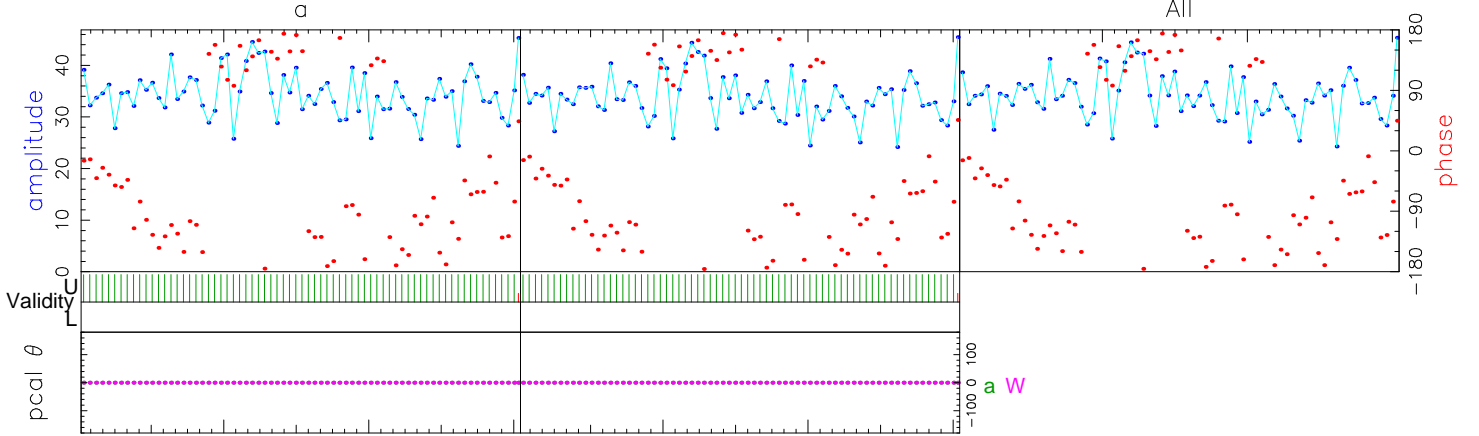


Fringe quality 5

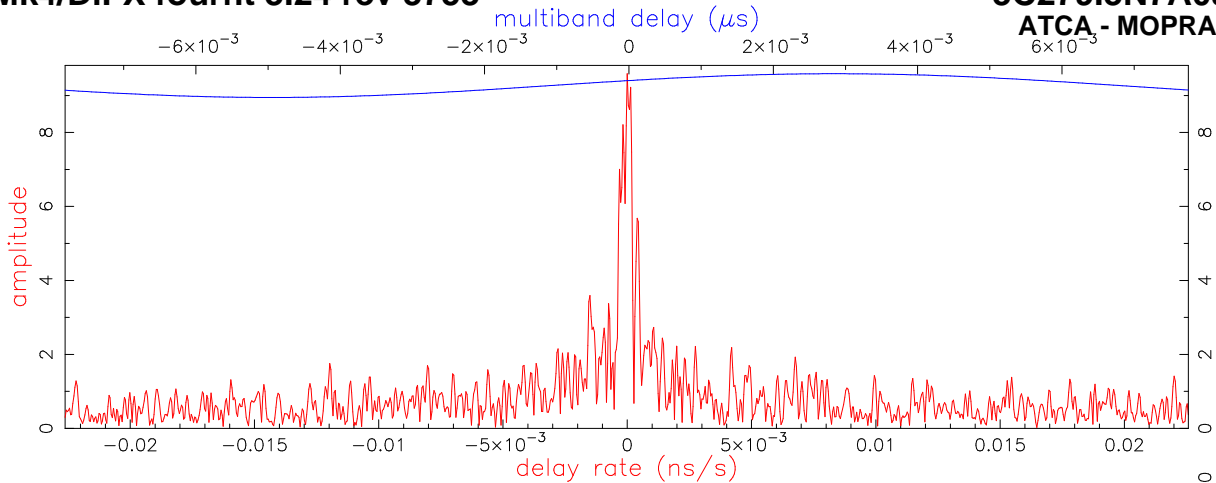
SNR 286.7
Int time 179.973
Amp 15.632
Phase -133.0
PFD 0.0e+00
Delays (us)
SBD -0.011630
MBD -0.003429
Fringe rate (Hz) 0.000858
Ion TEC 0.000
Ref freq (MHz) 43168.0000
AP (sec) 0.512

Exp. c241d
Exper # 1234
Yr:day 2024:114
Start 143001.00
Stop 143301.22
FRT 143131.00
Corr/FF/build
2025:049:064418
2025:051:103500
2023:348:201250
RA & Dec (J2000)
12h56m11.166579s
-5°47'21.525152"

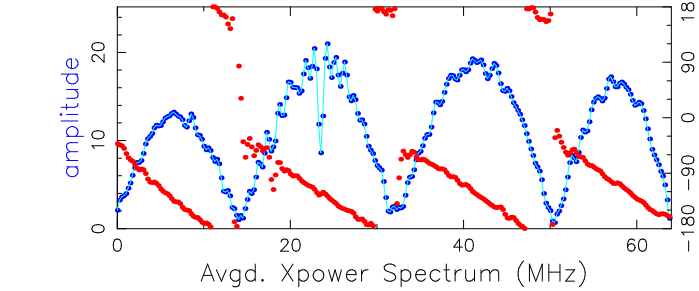
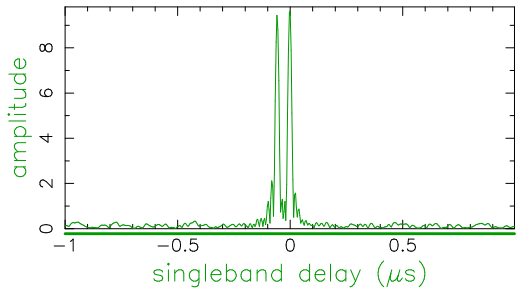
Amp. and Phase vs. time for each freq., 71 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec



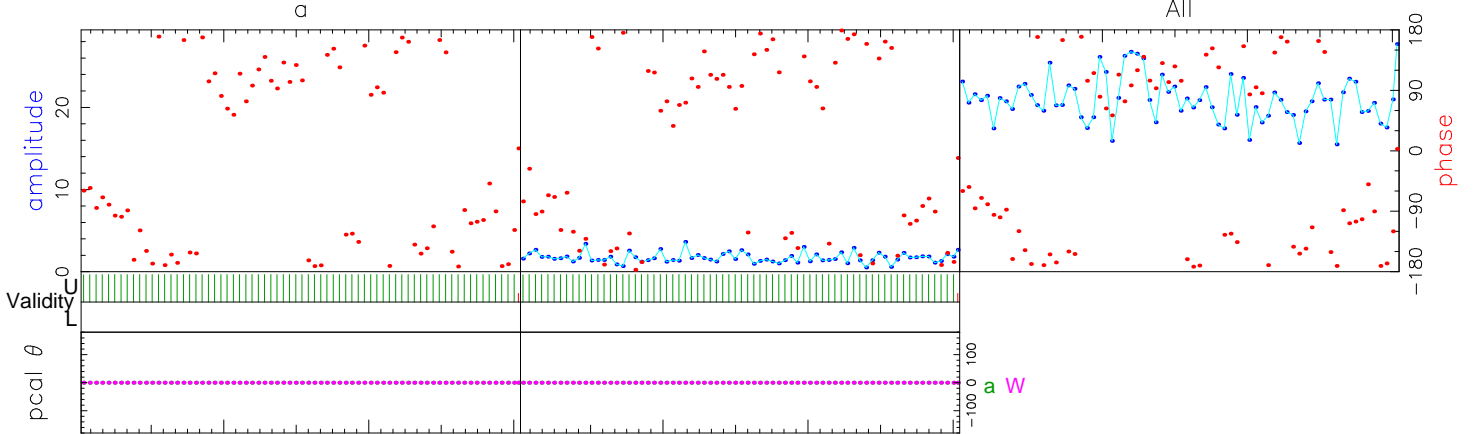
42912.00	42976.00	Freq (MHz)	All						
-132.9	-133.0	Phase	-133.0						
15.9	15.4	Ampl.	15.6						
254.7	253.4	Sbd box	254.0						
U/L 352/0	352/0	APs used							
a 0	0	PC freqs							
W 0	0	PC freqs							
a:W 0:0	0:0	PC phase							
a:W 0:0	0:0	Manl PC							
a 1000	1000	PC amp							
W 1000	1000								
a Q00UL	Q01UL	Chan ids							
W Q00UR	Q01UR	Tracks							
		Chan ids							
		Tracks							
Group delay (usec) (SBD)	2.20537294402E+01	Apriori delay (usec)	2.20727835652E+01	Resid mbdelay (usec)	-3.42913E-03	+/-	1.7E-05		
Sband delay (usec)	2.20611530652E+01	Apriori clock (usec)	15.084	Resid sbdelay (usec)	-1.16305E-02	+/-	3.0E-05		
Phase delay (usec)	2.20727750096E+01	Apriori clockrate (us/s)	4.7520001E-07	Resid phdelay (usec)	-8.55564E-06	+/-	2.6E-08		
Delay rate (us/s)	-1.52522663084E-02	Apriori rate (us/s)	-1.52522861935E-02	Resid rate (us/s)	1.98851E-08	+/-	2.5E-10		
Total phase (deg)	198.6	Apriori accel (us/s/s)	-5.26527934782E-07	Resid phase (deg)	-133.0	+/-	0.4		
RMS	Theor.	Amplitude	15.632 +/- 0.055	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
ph/seg (deg)	66.9	1.7	Search (1024X8)	15.084	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
amp/seg (%)	121.2	2.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	0.0	0.3	Inc. seg. avg.	34.059	Data rate(MSamp/s):	128 MBpts 8 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
amp/frq (%)	1.4	0.5	Inc. frq. avg.	15.631	Data rate(Mb/s):	512	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00
a: az 311.3 el 56.2 pa 139.2	W: az 313.0 el 55.9 pa 140.9	u,v (fr/asec)	43.909 65.531					simultaneous interpolator	
Control file: cf_1234	Input file: /Exps/c241d/v2/7mm/1234/No1356/aW...3N7A0J	Output file: /Exps/c241d/v2/7mm/1234/No1356/aW.Q.18.3N7A0J							



Fringe quality 3
Error code G
SNR 180.0
Int time 179.973
Amp 9.815
Phase -176.9
PFD 0.0e+00
Delays (us)
SBD -0.001965
MBD 0.003003
Fringe rate (Hz)
0.000848
Ion TEC 0.000
Ref freq (MHz)
43168.0000
AP (sec) 0.512
Exp. c241d
Exper # 1234
Yr:day 2024:114
Start 143001.00
Stop 143301.22
FRT 143131.00
Corr/FF/build
2025:049:064418
2025:051:103500
2023:348:201250
RA & Dec (J2000)
12h56m11.166579s
-5°47'21.525152"



Amp. and Phase vs. time for each freq., 71 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec

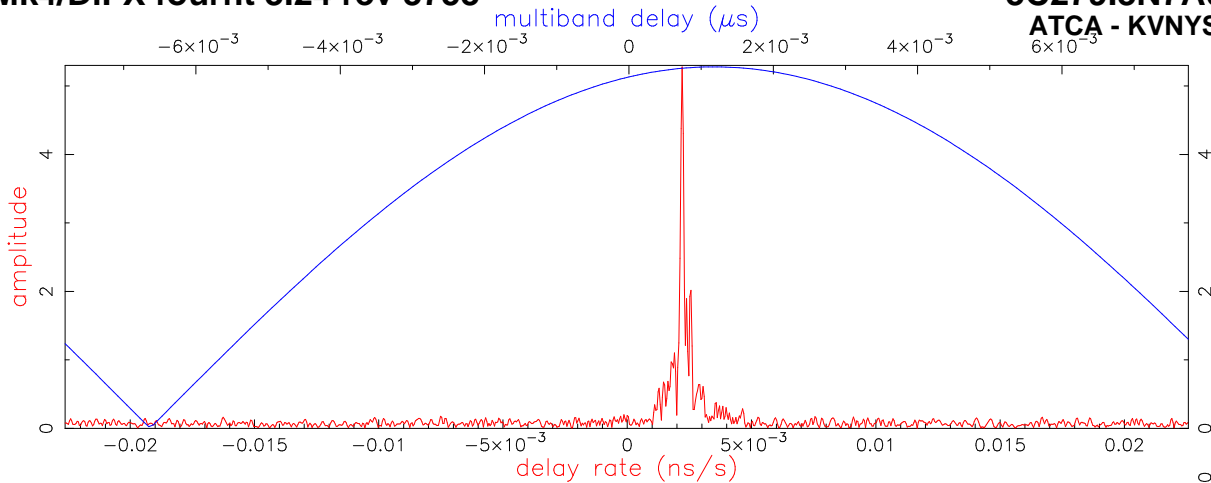


42912.00	42976.00	Freq (MHz)	All				
-176.8	180.0	Phase	-176.9				
18.5	0.6	Ampl.	9.6				
256.3	242.3	Sbd box	256.5				
U/L 352/0	352/0	APs used					
a 0	0	PC freqs					
W 0	0	PC freqs					
a:W 0:0	0:0	PC phase					
a:W 0:0	0:0	ManI PC					
a 1000	1000	PC amp					
W 1000	1000						
a Q00UR	Q01UR	Chan ids					
W Q00UL	Q01UL	Tracks					
		Chan ids					
		Tracks					
Group delay (usec) (SBD)	2.20757861902E+01	Apriori delay (usec)	2.20727835652E+01	Resid mbdelay (usec)	3.00262E-03	+/-	2.8E-05
Sband delay (usec)	2.20708185652E+01	Apriori clock (usec)	-4.5529686E+01	Resid sbdelay (usec)	-1.96500E-03	+/-	4.8E-05
Phase delay (usec)	2.20727721834E+01	Apriori clockrate (us/s)	4.7520001E-07	Resid phdelay (usec)	-1.13819E-05	+/-	4.1E-08
Delay rate (us/s)	-1.52522665601E-02	Apriori rate (us/s)	-1.52522861935E-02	Resid rate (us/s)	1.96334E-08	+/-	3.9E-10
Total phase (deg)	154.7	Apriori accel (us/s/s)	-5.26527934782E-07	Resid phase (deg)	-176.9	+/-	0.6

ph/seg (deg) 66.9 2.7 Search (1024X8) 9.283 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 116.2 4.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 0.0 0.5 Inc. seg. avg. 20.888 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 91.2 0.8 Inc. frq. avg. 9.589 Data rate(MSamp/s): 128 MBbps 8 Amb 0.016 us dr window (ns/s) -0.023 0.023
a: az 311.3 el 56.2 pa 139.2 W: az 313.0 el 55.9 pa 140.9 u,v (fr/asec) 43.909 65.531 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234 Input file: /Exps/c241d/v2/7mm/1234/No1356/aW...3N7A0J Output file: /Exps/c241d/v2/7mm/1234/No1356/aW.Q.20.3N7A0J simultaneous interpolator

Mk4/DiFX fourfit 3.24 rev 3753

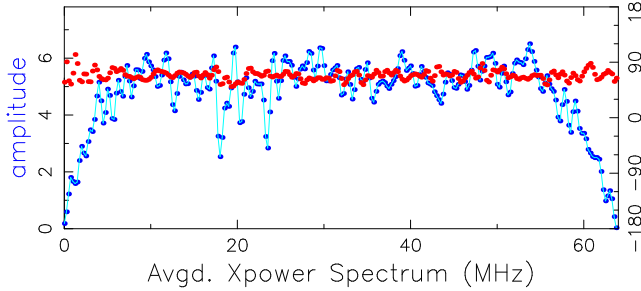
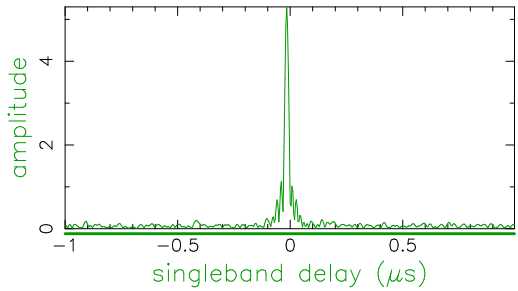
3C279.3N7A0J, No1356, ay
ATCA - KVNYS, fgroup Q, pol LL



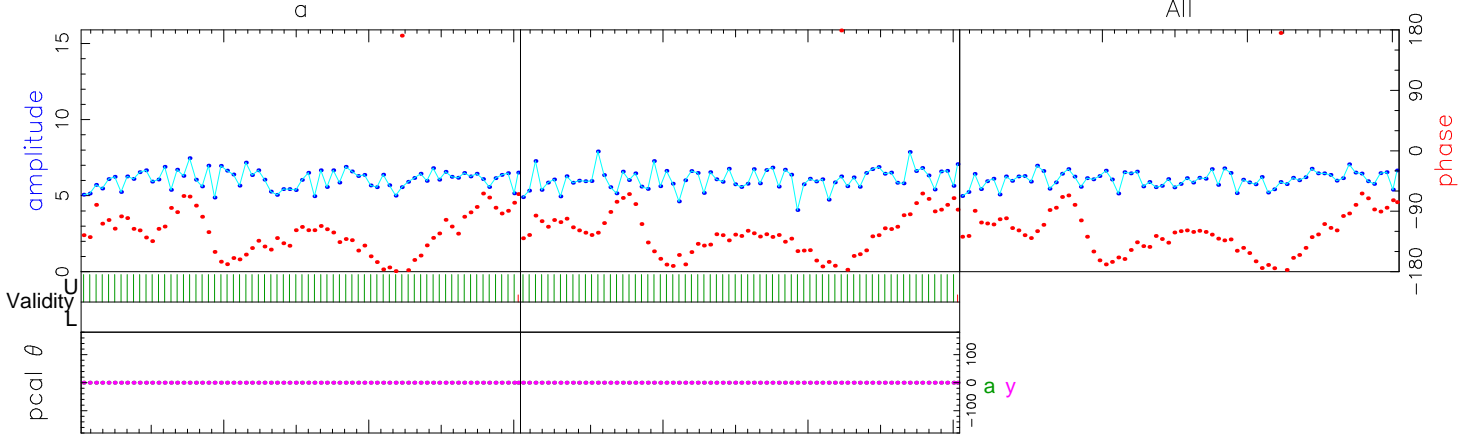
Fringe quality 7

SNR 96.8
Int time 179.854
Amp 5.301
Phase -123.2
PFD 0.0e+00
Delays (us)
SBD -0.015448
MBD 0.001178
Fringe rate (Hz)
0.095410
Ion TEC 0.000
Ref freq (MHz)
43168.0000
AP (sec) 0.512

Exp. c241d
Exper # 1234
Yr:day 2024:114
Start 143001.00
Stop 143301.22
FRT 143131.00
Corr/FF/build
2025:049:064418
2025:051:103503
2023:348:201250
RA & Dec (J2000)
12h56m11.166579s
-5°47'21.525152"



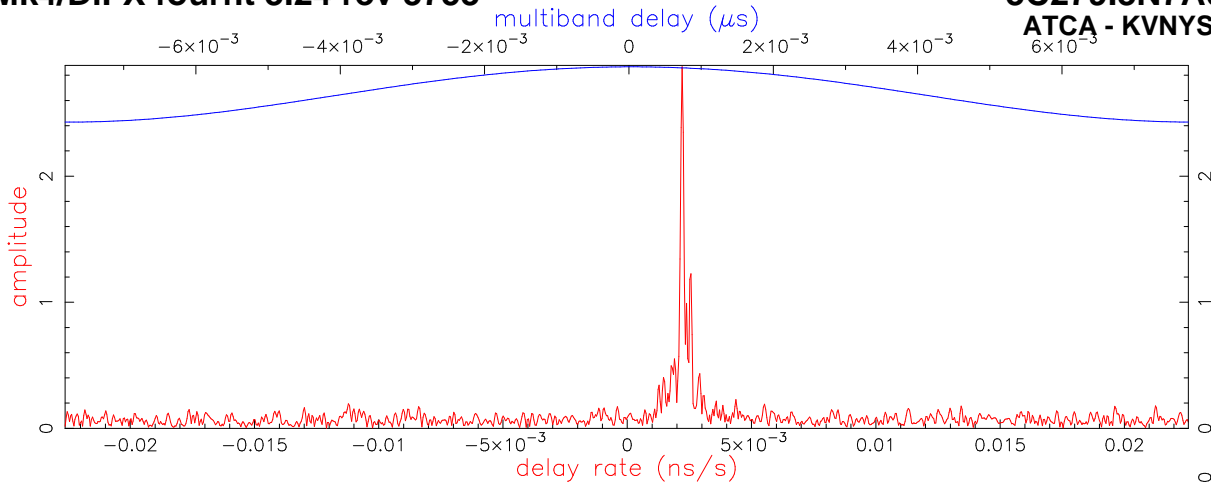
Amp. and Phase vs. time for each freq., 71 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec



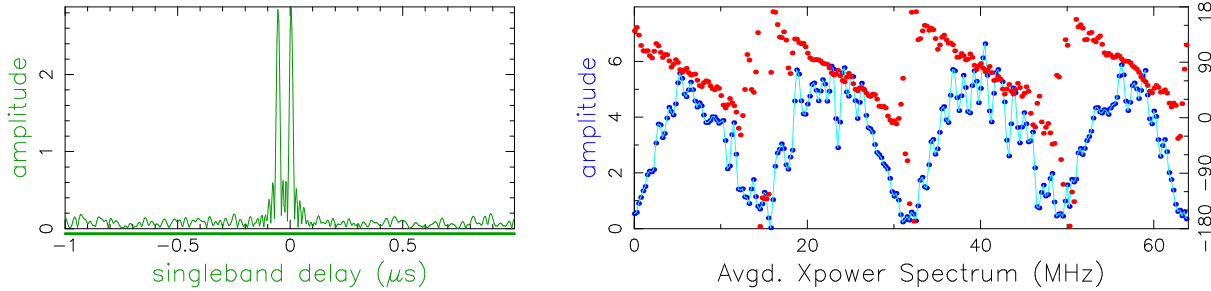
42912.00		42976.00		Freq (MHz)	All
-123.2		-123.3		Phase	-123.2
5.3		5.3		Ampl.	5.3
253.4		252.7		Sbd box	253.0
U/L 352/0		352/0		APs used	
a 0		0		PC freqs	
y 0		24000		PC freqs	
a:y 0:0		0:0		PC phase	
a:y 0:0		0:0		Manl PC	
a 1000		1000		PC amp	
y 1000		1000			
a Q00UL		Q01UL		Chan ids	
y Q00UL		Q01UL		Tracks	
				Chan ids	
				Tracks	
Group delay (usec) (SBD)	2.14472000576E+03	Apriori delay (usec)	2.14473445250E+03	Resid mbdelay (usec)	1.17826E-03 +/- 5.1E-05
Sband delay (usec)	2.14471900500E+03	Apriori clock (usec)	-5.3576096E+01	Resid sbdelay (usec)	-1.54475E-02 +/- 8.9E-05
Phase delay (usec)	2.14473444457E+03	Apriori clockrate (us/s)	-2.3355200E-06	Resid phdelay (usec)	-7.92960E-06 +/- 7.6E-08
Delay rate (us/s)	-5.12668773672E-01	Apriori rate (us/s)	-5.12670983880E-01	Resid rate (us/s)	2.21021E-06 +/- 7.3E-10
Total phase (deg)	181.1	Apriori accel (us/s/s)	1.24607989512E-06	Resid phase (deg)	-123.2 +/- 1.2
RMS	Theor.	Amplitude	5.301 +/- 0.055	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	29.9	Search (1024X8)	5.149	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	17.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	0.0	Inc. seg. avg.	6.064	Data rate(MSamp/s): 128 MBpts 8 Amb 0.016 us	dr window (ns/s) -0.023 0.023
amp/frq (%)	0.4	Inc. frq. avg.	5.300	Data rate(Mb/s): 512	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
a: az 311.3 el 56.2 pa 139.2		y: az 183.2 el 46.5 pa 2.8		u,v (fr/asec) 1476.914 -4912.773	simultaneous interpolator
Control file: cf_1234		Input file: /Exps/c241d/v2/7mm/1234/No1356/ay..3N7A0J		Output file: /Exps/c241d/v2/7mm/1234/No1356/ay.Q.25.3N7A0J	

Mk4/DiFX fourfit 3.24 rev 3753

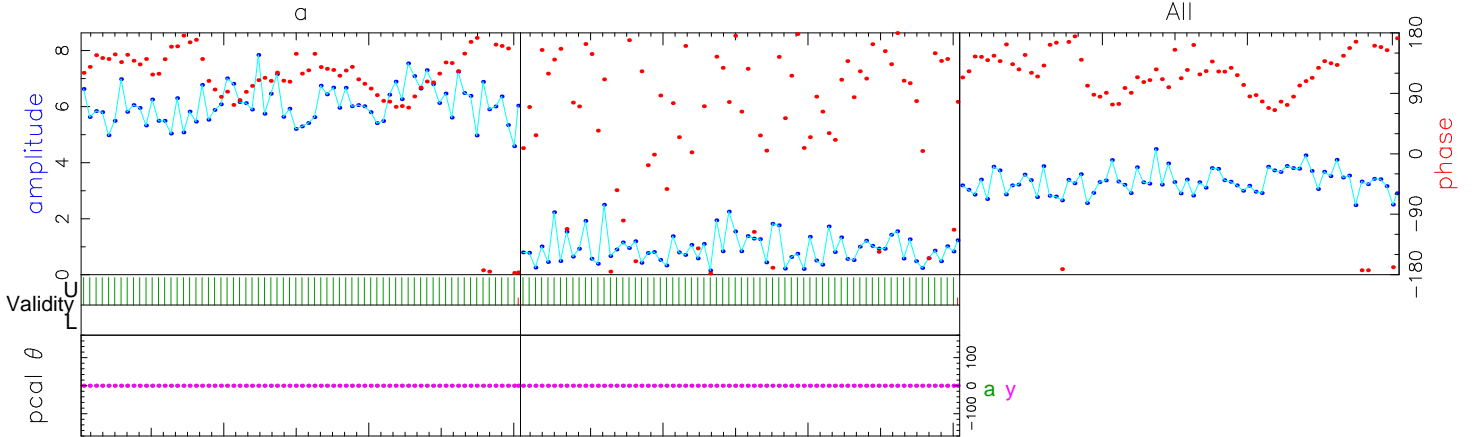
3C279.3N7A0J, No1356, ay
ATCA - KVNYS, fgroup Q, pol RR



Fringe quality 6
Error code G
SNR 52.6
Int time 179.854
Amp 2.879
Phase 123.9
PFD 0.0e+00
Delays (us)
SBD 0.003954
MBD 0.000036
Fringe rate (Hz)
0.095425
Ion TEC 0.000
Ref freq (MHz)
43168.0000
AP (sec) 0.512
Exp. c241d
Exper # 1234
Yr:day 2024:114
Start 143001.00
Stop 143301.22
FRT 143131.00
Corr/FF/build
2025:049:064418
2025:051:103503
2023:348:201250
RA & Dec (J2000)
12h56m11.166579s
-5°47'21.525152"



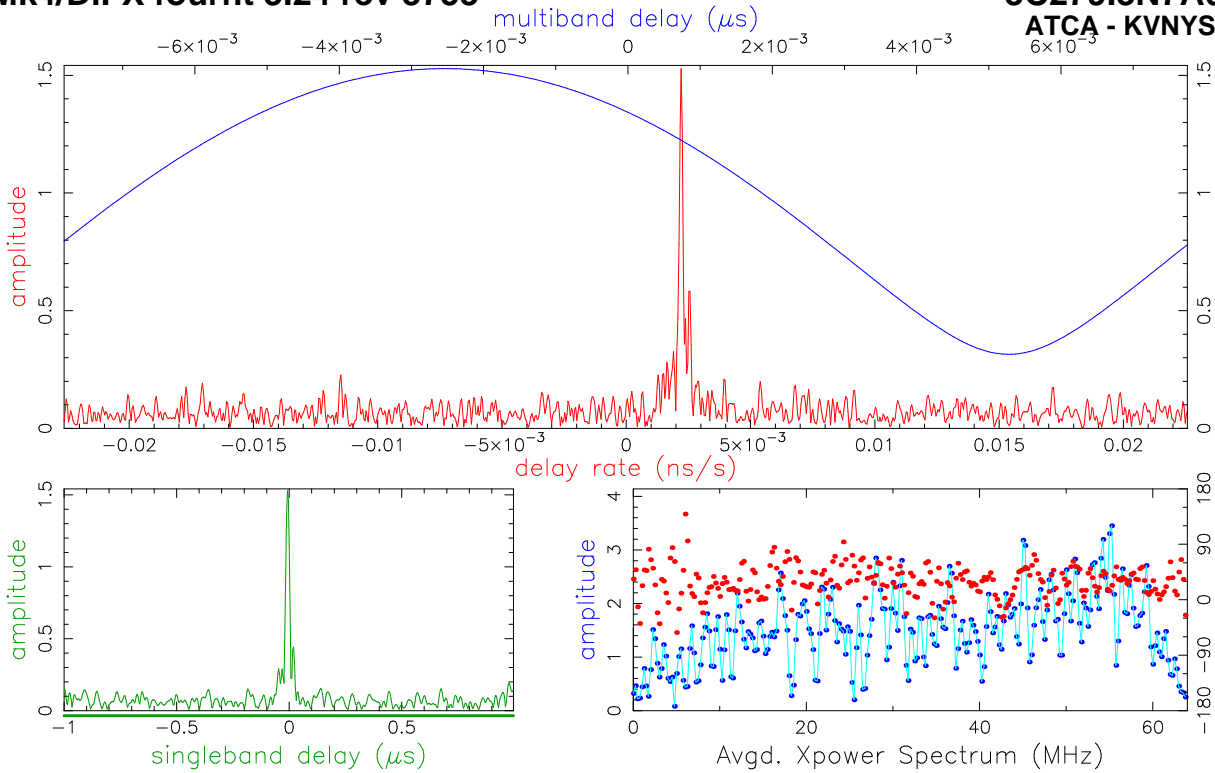
Amp. and Phase vs. time for each freq., 71 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec



42912.00	42976.00	Freq (MHz)	All				
123.9	123.9	Phase	123.9				
5.3	0.4	Ampl.	2.9				
257.9	243.3	Sbd box	258.0				
U/L 352/0	352/0	APs used					
a 0	0	PC freqs					
y 0	24000	PC freqs					
a:y 0:0	0:0	PC phase					
a:y 0:0	0:0	ManI PC					
a 1000	1000	PC amp					
y 1000	1000						
a Q00UR	Q01UR	Chan ids					
y Q00UR	Q01UR	Tracks					
		Chan ids					
		Tracks					
Group delay (usec) (SBD)	2.14473448889E+03	Apriori delay (usec)	2.14473445250E+03	Resid mbdelay (usec)	3.63889E-05	+/-	9.5E-05
Sband delay (usec)	2.14473840600E+03	Apriori clock (usec)	-5.3576096E+01	Resid sbdelay (usec)	3.95350E-03	+/-	1.6E-04
Phase delay (usec)	2.14473446047E+03	Apriori clockrate (us/s)	-2.3355200E-06	Resid phdelay (usec)	7.97244E-06	+/-	1.4E-07
Delay rate (us/s)	-5.12668773338E-01	Apriori rate (us/s)	-5.12670983880E-01	Resid rate (us/s)	2.21054E-06	+/-	1.3E-09
Total phase (deg)	68.2	Apriori accel (us/s/s)	1.24607989512E-06	Resid phase (deg)	123.9	+/-	2.2
RMS	Theor.	Amplitude	2.879 +/- 0.055	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	31.8	Search (1024X8)	2.847	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000
amp/seg (%)	22.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	0.0	Inc. seg. avg.	3.310	Data rate(MSamp/s): 128 MBpts 8 Amb 0.016 us	dr window (ns/s)	-0.023	0.023
amp/frq (%)	84.7	Inc. frq. avg.	2.877	Data rate(Mb/s): 512	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00
a: az 311.3 el 56.2 pa 139.2	y: az 183.2 el 46.5 pa 2.8	u,v (fr/asec)	1476.914 -4912.773				simultaneous interpolator
Control file: cf_1234	Input file: /Exps/c241d/v2/7mm/1234/No1356/ay..3N7A0J	Output file: /Exps/c241d/v2/7mm/1234/No1356/ay.Q.27.3N7A0J					

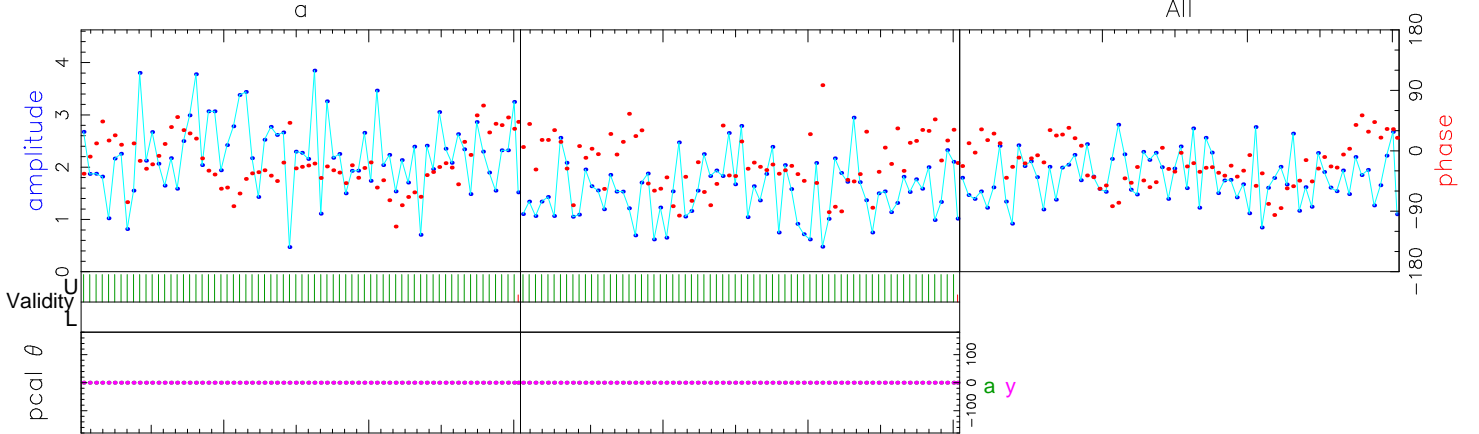
Mk4/DiFX fourfit 3.24 rev 3753

3C279.3N7A0J, No1356, ay
ATCA - KVNYS, fgroup Q, pol LR

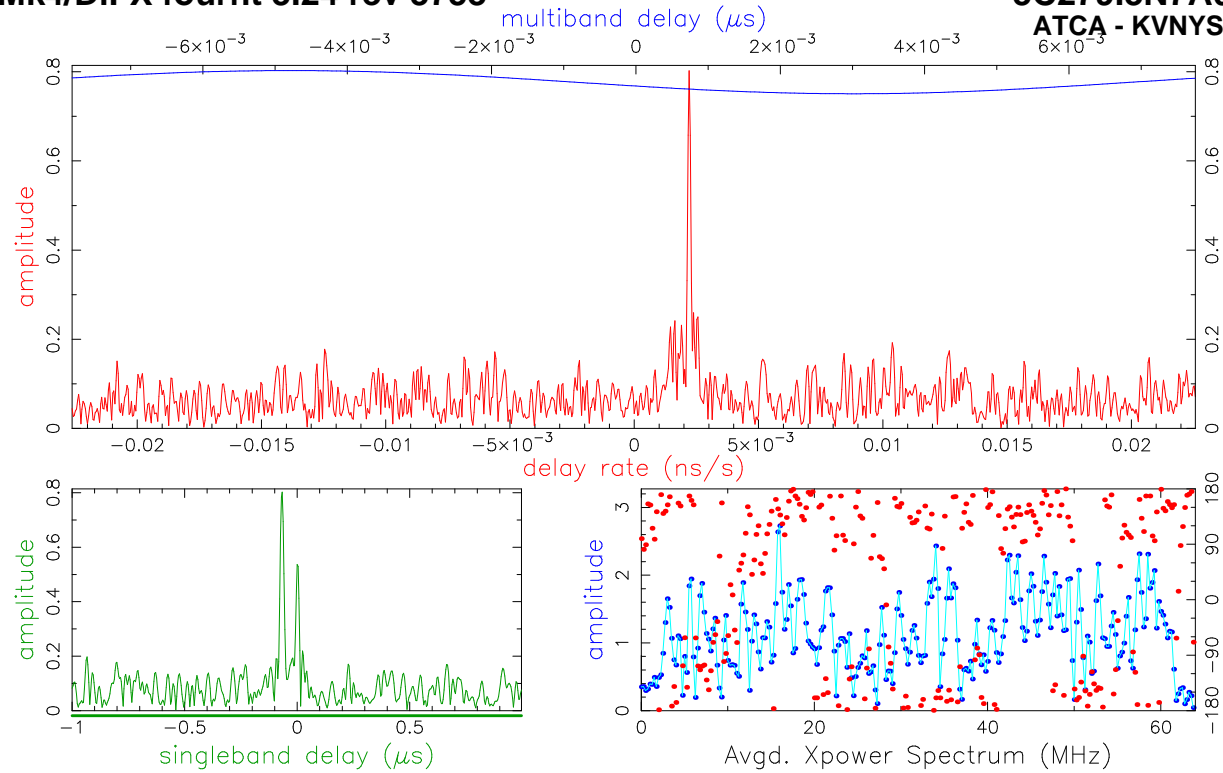


Fringe quality 8
SNR 28.2
Int time 179.854
Amp 1.542
Phase -18.4
PFD 0.0e+00
Delays (us)
SBD -0.006874
MBD -0.002551
Fringe rate (Hz)
0.095435
Ion TEC 0.000
Ref freq (MHz)
43168.0000
AP (sec) 0.512
Exp. c241d
Exper # 1234
Yr:day 2024:114
Start 143001.00
Stop 143301.22
FRT 143131.00
Corr/FF/build
2025:049:064418
2025:051:103504
2023:348:201250
RA & Dec (J2000)
12h56m11.166579s
--5°47'21.525152"

Amp. and Phase vs. time for each freq., 71 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec



42912.00	42976.00	Freq (MHz)	All					
-18.5	-18.2	Phase	-18.4					
1.9	1.2	Ampl.	1.5					
254.8	255.9	Sbd box	255.2					
U/L 352/0	352/0	APs used						
a 0	0	PC freqs						
y 0	24000	PC freqs						
a:y 0:0	0:0	PC phase						
a:y 0:0	0:0	Manl PC						
a 1000	1000	PC amp						
y 1000	1000							
a Q00UL	Q01UL	Chan ids						
y Q00UR	Q01UR	Tracks						
		Chan ids						
		Tracks						
Group delay (usec) (SBD)	2.14473190126E+03	Apriori delay (usec)	2.14473445250E+03	Resid mbdelay (usec)	-2.55124E-03	+/-	1.8E-04	
Sband delay (usec)	2.14472757825E+03	Apriori clock (usec)	-5.3576096E+01	Resid sbdelay (usec)	-6.87425E-03	+/-	3.1E-04	
Phase delay (usec)	2.14473445131E+03	Apriori clockrate (us/s)	-2.3355200E-01	Resid phdelay (usec)	-1.18187E-06	+/-	2.6E-07	
Delay rate (us/s)	-5.12668773092E-01	Apriori rate (us/s)	-5.12670983880E-01	Resid rate (us/s)	2.21079E-06	+/-	2.5E-09	
Total phase (deg)	286.0	Apriori accel (us/s/s)	1.24607989512E-06	Resid phase (deg)	-18.4	+/-	4.1	
RMS	Theor.	Amplitude	1.542 +/- 0.055	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
ph/seg (deg)	33.3	Search (1024X8)	1.502	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
amp/seg (%)	35.5	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	0.0	Inc. seg. avg.	1.759	Data rate(MSamp/s):	128 MBpts 8 Amb 0.016 us	dr window (ns/s)	-0.023 0.023	
amp/frq (%)	20.5	Inc. frq. avg.	1.533	Data rate(Mb/s):	512	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00
a: az 311.3 el 56.2 pa 139.2	y: az 183.2 el 46.5 pa 2.8	u, v (fr/asec)	1476.914 -4912.773				simultaneous interpolator	
Control file: cf_1234	Input file: /Exps/c241d/v2/7mm/1234/No1356/ay..3N7A0J	Output file:	/Exps/c241d/v2/7mm/1234/No1356/ay.Q.29.3N7A0J					

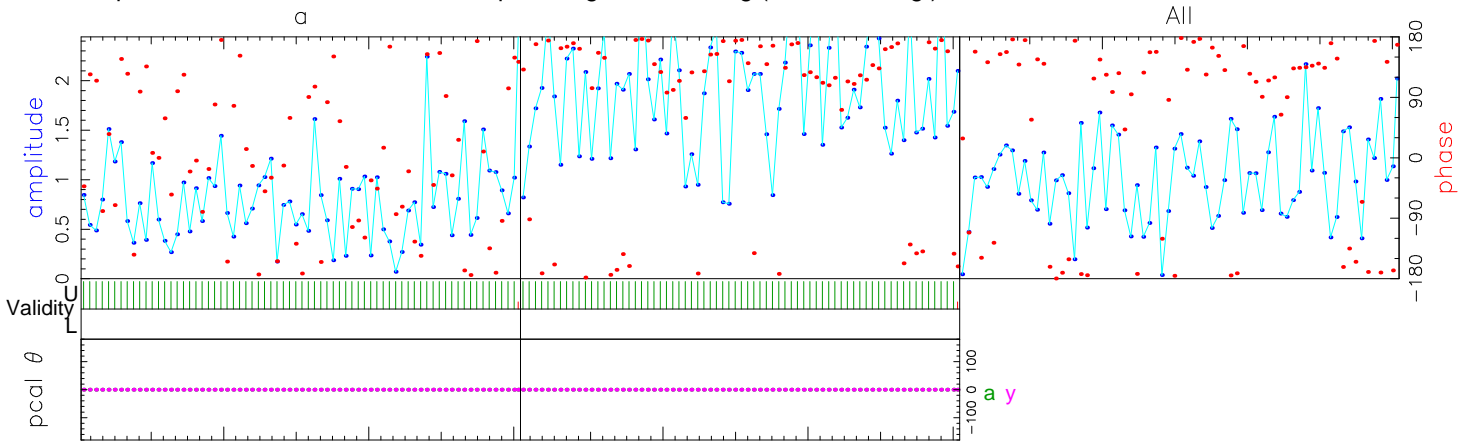


Fringe quality 7

SNR 14.9
Int time 179.854
Amp 0.814
Phase 156.8
PFD 3.8e-42
Delays (us)
SBD -0.067823
MBD -0.005231
Fringe rate (Hz) 0.095577
Ion TEC 0.000
Ref freq (MHz) 43168.0000
AP (sec) 0.512

Exp. c241d
Exper # 1234
Yr:day 2024:114
Start 143001.00
Stop 143301.22
FRT 143131.00
Corr/FF/build
2025:049:064418
2025:051:103505
2023:348:201250
RA & Dec (J2000)
12h56m11.166579s
-5°47'21.525152"

Amp. and Phase vs. time for each freq., 71 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec



42912.00	42976.00	Freq (MHz)	All				
147.1	157.2	Phase	156.8				
0.1	1.6	Ampl.	0.8				
257.3	239.8	Sbd box	239.6				
U/L 352/0	352/0	APs used					
a 0	0	PC freqs					
y 0	24000	PC freqs					
a:y 0:0	0:0	PC phase					
a:y 0:0	0:0	ManI PC					
a 1000	1000	PC amp					
y 1000	1000						
a Q00UR	Q01UR	Chan ids					
y Q00UL	Q01UL	Tracks					
		Chan ids					
		Tracks					
Group delay (usec) (SBD)	2.14466672126E+03	Apriori delay (usec)	2.14473445250E+03	Resid mbdelay (usec)	-5.23124E-03	+/-	3.3E-04
Sband delay (usec)	2.14466662950E+03	Apriori clock (usec)	-5.3576096E+01	Resid sbdelay (usec)	-6.78230E-02	+/-	5.8E-04
Phase delay (usec)	2.14473446259E+03	Apriori clockrate (us/s)	-2.3355200E-06	Resid phdelay (usec)	1.00923E-05	+/-	5.0E-07
Delay rate (us/s)	-5.12668769820E-01	Apriori rate (us/s)	-5.12670983880E-01	Resid rate (us/s)	2.21406E-06	+/-	4.8E-09
Total phase (deg)	101.2	Apriori accel (us/s/s)	1.24607989512E-06	Resid phase (deg)	156.8	+/-	7.7
RMS	Theor.	Amplitude	0.814 +/- 0.055	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
47.1	32.5	Search (1024X8)	0.796	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000
59.0	56.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
0.0	5.4	Inc. seg. avg.	0.876	Data rate(MSamp/s): 128 MBpts 8 Amb 0.016 us	dr window (ns/s)	-0.023	0.023
92.6	9.5	Inc. frq. avg.	0.802	Data rate(Mb/s): 512	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00
a: az 311.3 el 56.2 pa 139.2	y: az 183.2 el 46.5 pa 2.8	u, v (fr/asec)	1476.914 -4912.773				simultaneous interpolator
Control file: cf_1234	Input file: /Exps/c241d/v2/7mm/1234/No1356/ay..3N7A0J	Output file: /Exps/c241d/v2/7mm/1234/No1356/ay.Q.32.3N7A0J					