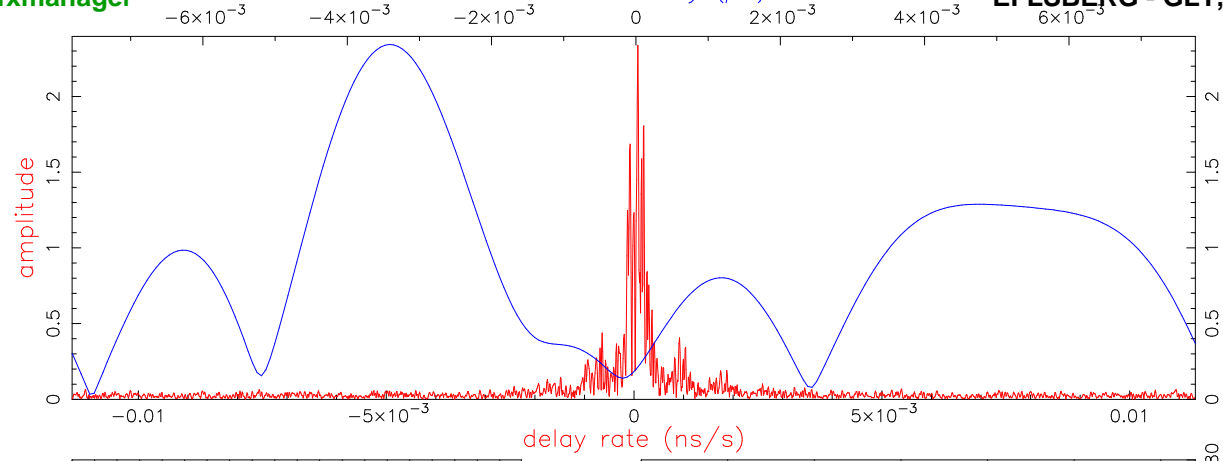


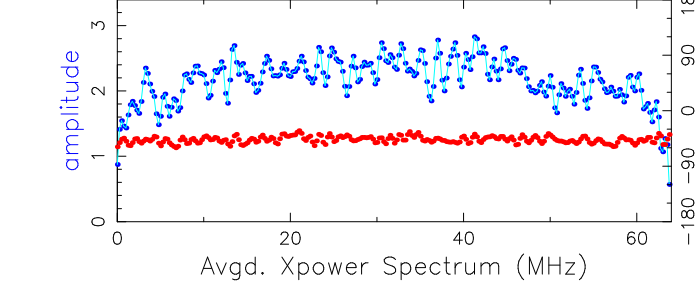
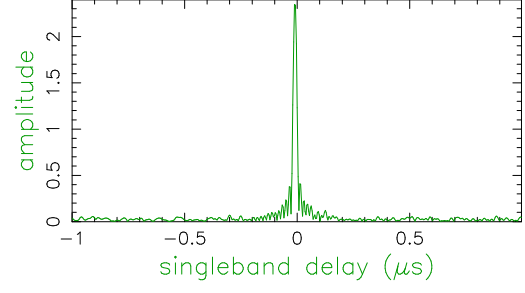
multiband delay (μ s)



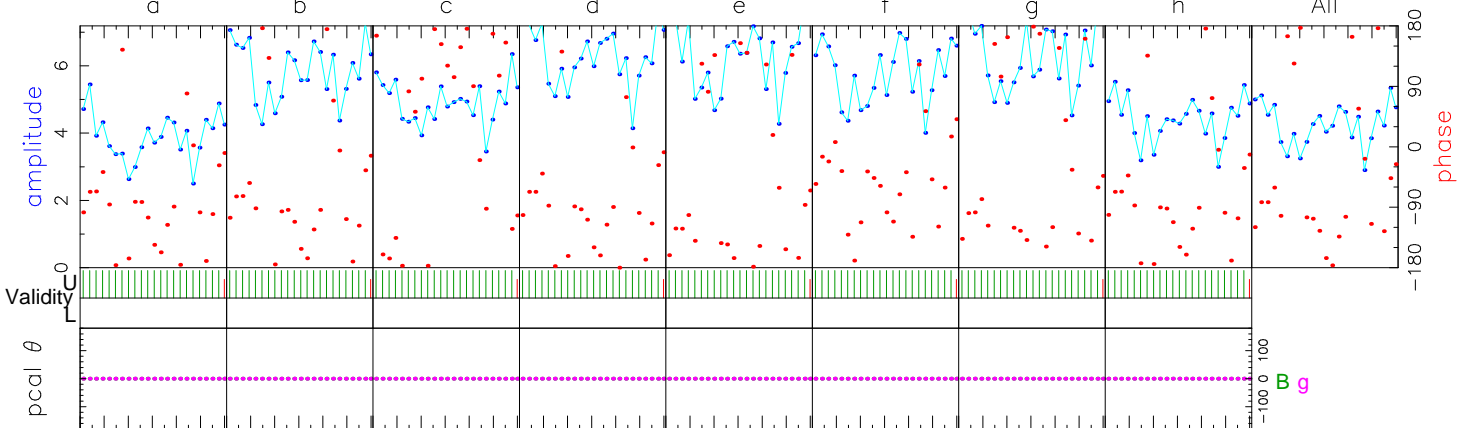
Fringe quality 2

SNR 124.3
Int time 359.913
Amp 2.396
Phase -119.7
PFD 0.0e+00
Delays (us)
SBD -0.009832
MBD -0.003476
Fringe rate (Hz) 0.007121
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 134500.00
Stop 135059.94
FRT 134800.00
Corr/FF/build
2021:286:102153
2021:286:135417
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-100.9	-108.5	162.0	-104.2	-160.5	-55.8	-134.0	-104.2	Phase	-119.7
	2.2	3.2	2.7	3.4	3.4	3.1	3.5	2.4	Ampl.	3.0
	252.8	254.4	255.2	255.1	255.4	255.3	254.9	253.4	Sbd box	254.5
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B:g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-7.35790607049E+03		Apriori delay (usec)		-7.35790259427E+03		Resid mbdelay (usec)		-3.47623E-03	+/- 8.7E-06
Sband delay (usec)	-7.35791242602E+03		Apriori clock (usec)		-2.2492220E+01		Resid sbdelay (usec)		-9.83175E-03	+/- 6.9E-05
Phase delay (usec)	-7.35790259813E+03		Apriori clockrate (us/s)		-5.9999999E-08		Resid phdelay (usec)		-3.85984E-06	+/- 3.0E-08
Delay rate (us/s)	-6.33831236291E-01		Apriori rate (us/s)		-6.33831318959E-01		Resid rate (us/s)		8.26681E-08	+/- 1.4E-10
Total phase (deg)			Apriori accel (us/s/s)		2.36975052598E-05		Resid phase (deg)		-119.7	+/- 0.9

ph/seg (deg) 66.0 2.2 Search (2048X32) 2.249 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 81.8 3.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 46.6 1.3 Inc. seg. avg. 4.254 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 31.9 2.3 Inc. frq. avg. 2.990 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
B: az 302.9 el 28.7 pa 46.3 g: az 205.0 el 54.9 pa 7.2 u,v (fr/asec) 4957.008 315.110 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/Bg..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/Bg.W.26.1W5ADF simultaneous interpolator

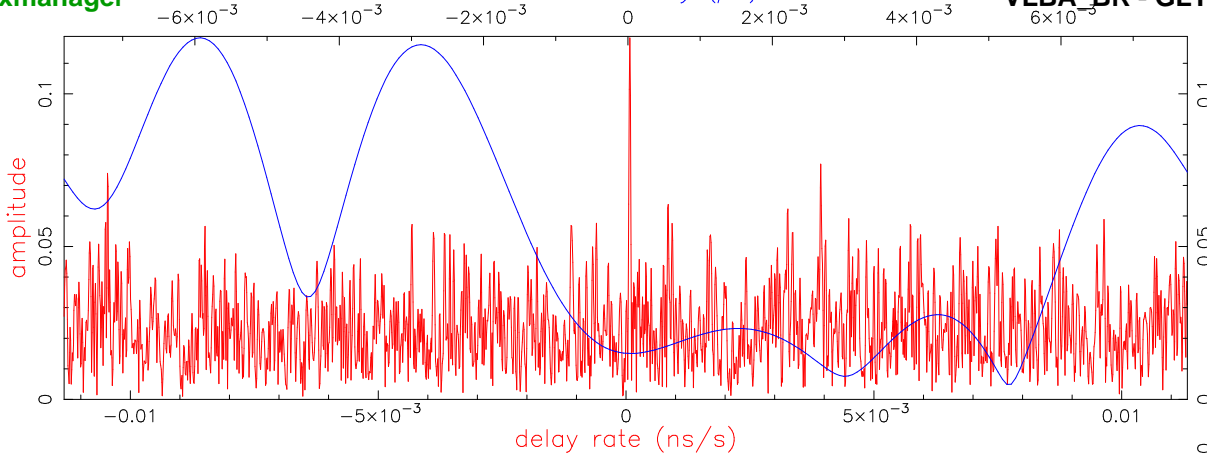
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, bg

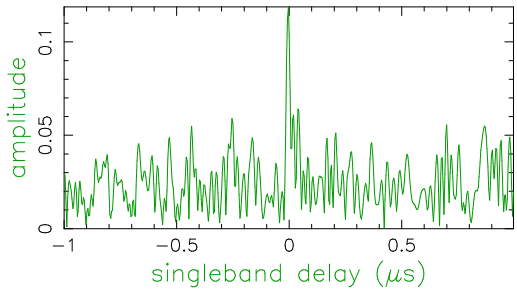
VLBA_BR - GLT, fgroup W, pol RR

multiband delay (μ s)

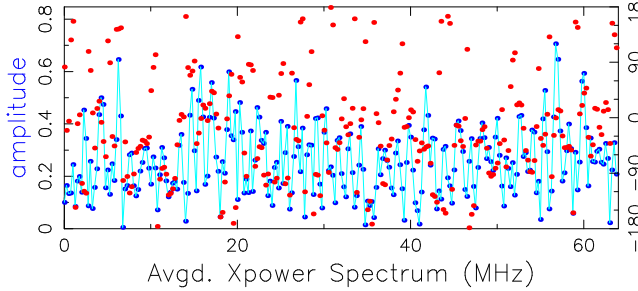


Fringe quality 0

SNR 6.1
 Int time 350.013
 Amp 0.119
 Phase -12.5
 PFD 2.7e-01
 Delays (us)
 SBD -0.004728
 MBD -0.005946
 Fringe rate (Hz)
 0.006273
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

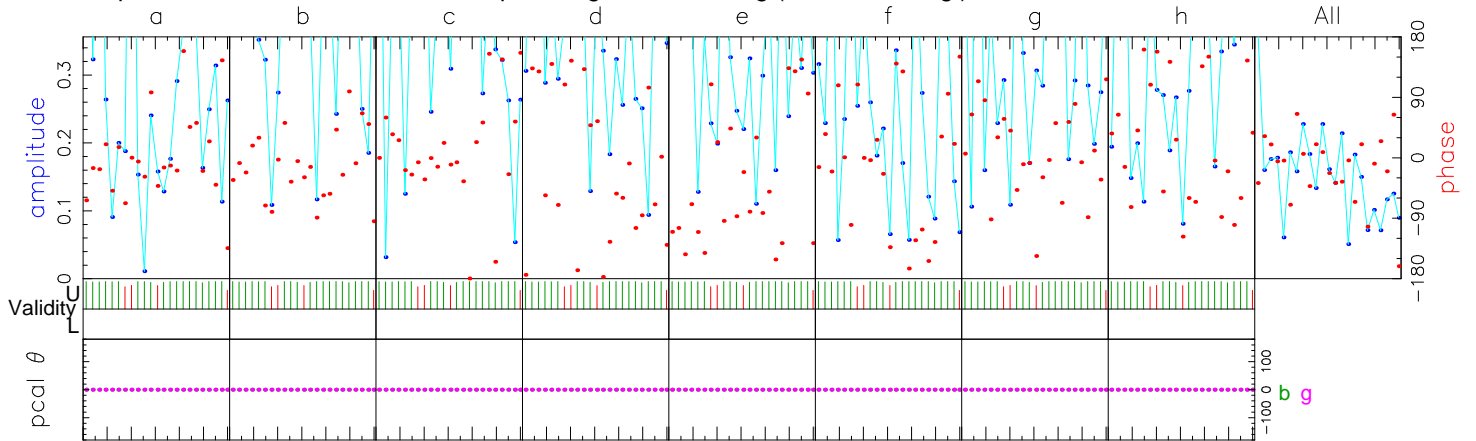


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135417
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-10.0	-13.2	3.3	169.5	-115.3	-13.1	8.9	4.8	Phase	-12.5
	0.2	0.3	0.2	0.1	0.2	0.1	0.2	0.1	Ampl.	0.1
	255.1	256.4	256.3	481.9	489.4	424.0	506.6	309.0	Sbd box	255.8
U/L	694/0	694/0	694/0	694/0	694/0	694/0	694/0	694/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
b:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.31311923805E+03		Apriori delay (usec)		2.31312518384E+03		Resid mbdelay (usec)		-5.94579E-03	+/- 1.8E-04
Sband delay (usec)	2.31312045584E+03		Apriori clock (usec)		-3.4045868E+00		Resid sbdelay (usec)		-4.72800E-03	+/- 1.4E-03
Phase delay (usec)	2.31312518344E+03		Apriori clockrate (us/s)		-1.6000000E-07		Resid phdelay (usec)		-4.03327E-07	+/- 6.1E-07
Delay rate (us/s)	4.84636787778E-01		Apriori rate (us/s)		4.84636714955E-01		Resid rate (us/s)		7.28234E-08	+/- 3.0E-09
Total phase (deg)	108.5		Apriori accel (us/s/s)		-2.97017966762E-05		Resid phase (deg)		-12.5	+/- 18.9

ph/seg (deg) 47.7 44.9 Search (2048X32) 0.114 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 65.0 78.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 84.9 26.7 Inc. seg. avg. 0.118 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 81.5 46.5 Inc. frq. avg. 0.145 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 92.6 el 67.1 pa -64.3 g: az 205.0 el 54.9 pa 7.2 u,v (fr/asec) -3816.333 -3574.557 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/bg..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/bg.W.28.1W5ADF

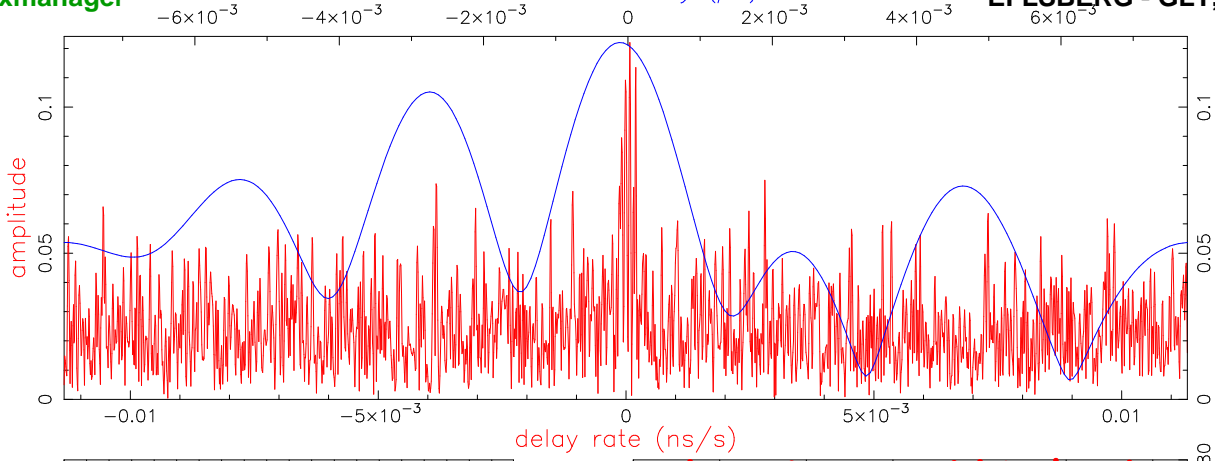
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, Bg

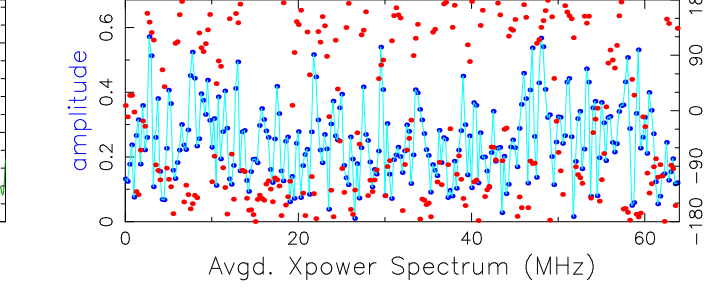
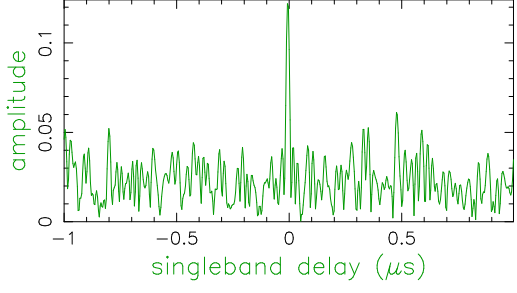
EFLSBERG - GLT, fgroup W, pol LR

multiband delay (μ s)



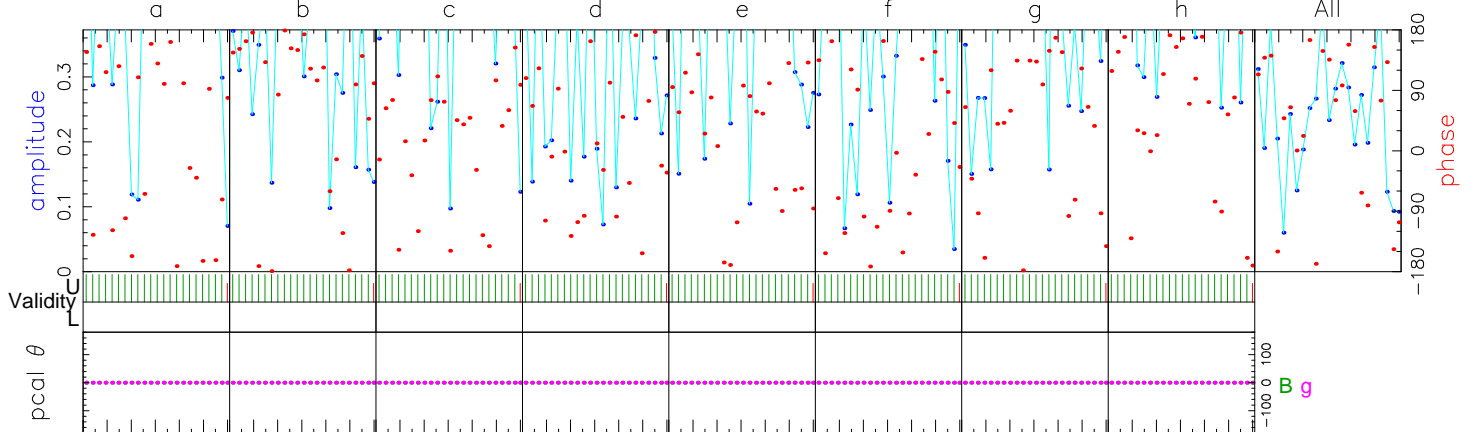
Fringe quality 0

SNR 6.4
 Int time 359.913
 Amp 0.124
 Phase 126.7
 PFD 3.2e-02
 Delays (us)
 SBD -0.006150
 MBD -0.000086
 Fringe rate (Hz)
 0.006865
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135420
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All		
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0				
B	1000	1000	1000	1000	1000	1000	1000	1000				
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0				
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0				
B:g	1000	1000	1000	1000	1000	1000	1000	1000				
B:g	1000	1000	1000	1000	1000	1000	1000	1000				
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL				
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR				
Group delay (usec)(sbd)	-7.35790267987E+03					-7.35790259427E+03			Resid mbdelay (usec)	-8.56014E-05 +/- 1.7E-04		
Sband delay (usec)	-7.35790874427E+03					-2.2492220E+01			Resid sbdelay (usec)	-6.15000E-03 +/- 1.3E-03		
Phase delay (usec)	-7.35790259018E+03					-5.9999999E-08			Resid phdelay (usec)	4.08651E-06 +/- 5.7E-07		
Delay rate (us/s)	-6.33831239263E-01					-6.33831318959E-01			Resid rate (us/s)	7.96964E-08 +/- 2.8E-09		
Total phase (deg)			-42.5			2.36975052598E-05			Resid phase (deg)	126.7 +/- 17.8		
ph/seg (deg)	76.8	42.7							PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	121.0	74.5							PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
ph/frq (deg)	54.8	25.2							Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
amp/frq (%)	68.3	43.9							Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011	
									Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

B: az 302.9 el 28.7 pa 46.3 g: az 205.0 el 54.9 pa 7.2 u,v (fr/asec) 4957.008 315.110 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/Bg..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/Bg.W.47.1W5ADF

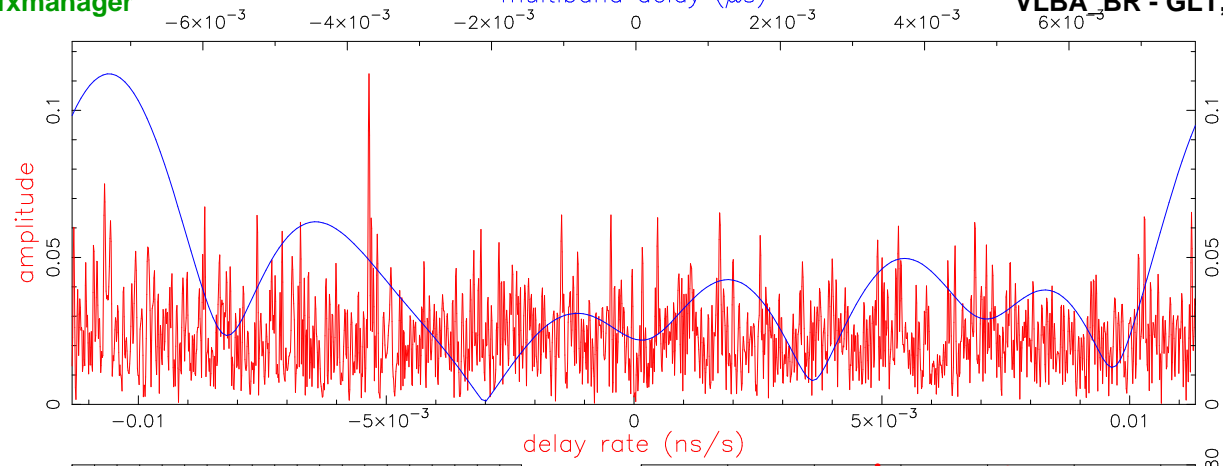
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

multiband delay (μs)

BLLAC.1W5ADF, No0245, bg

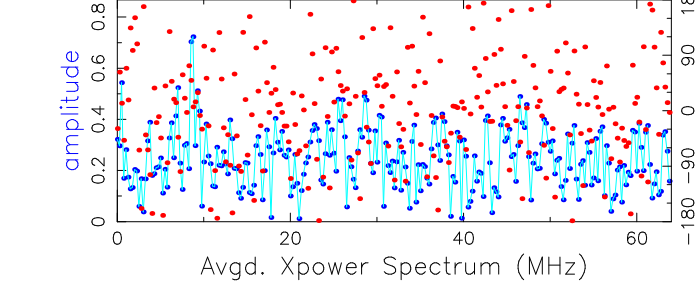
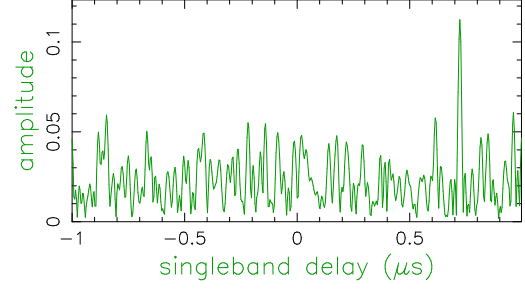
VLBA_BR - GLT, fgroup W, pol LR



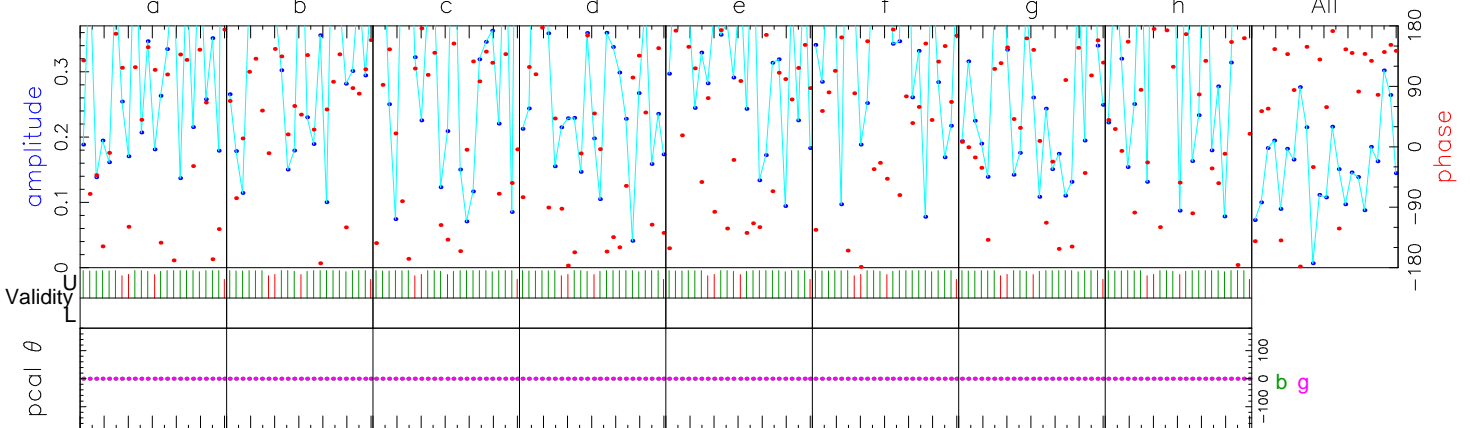
Fringe quality 0

SNR 5.8
 Int time 350.013
 Amp 0.123
 Phase 137.5
 PFD 8.9e-01
 Delays (us)
 SBD 0.722549
 MBD -0.007304
 Fringe rate (Hz)
 -0.461424
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135421
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	694/0	694/0	694/0	694/0	694/0	694/0	694/0	694/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
g	0	0	0	0	0	0	0	0		
b:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:g	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		
g	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	2.31385225450E+03		Apriori delay (usec)		2.31312518384E+03		Resid mbdelay (usec)		-7.30434E-03	+/- 1.9E-04
Sband delay (usec)	2.31384773309E+03		Apriori clock (usec)		-3.4045868E+00		Resid sbdelay (usec)		7.22549E-01	+/- 1.5E-03
Phase delay (usec)	2.31312518828E+03		Apriori clockrate (us/s)		-1.6000000E-07		Resid phdelay (usec)		4.43364E-06	+/- 6.4E-07
Delay rate (us/s)	4.84631358285E-01		Apriori rate (us/s)		4.84636714955E-01		Resid rate (us/s)		-5.35667E-06	+/- 3.1E-09
Total phase (deg)	258.5		Apriori accel (us/s/s)		-2.97017966762E-05		Resid phase (deg)		137.5	+/- 19.9

	RMS	Theor.	Amplitude	0.123 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	61.3	47.5	Search (2048X32)	0.111	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	72.8	82.8	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	36.0	28.2	Inc. seg. avg.	0.127	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	39.9	49.2	Inc. frq. avg.	0.127	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 92.6 el 67.1 pa -64.3 g: az 205.0 el 54.9 pa 7.2 u,v (fr/asec) -3816.333 -3574.557 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/bg..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/bg.W.49.1W5ADF

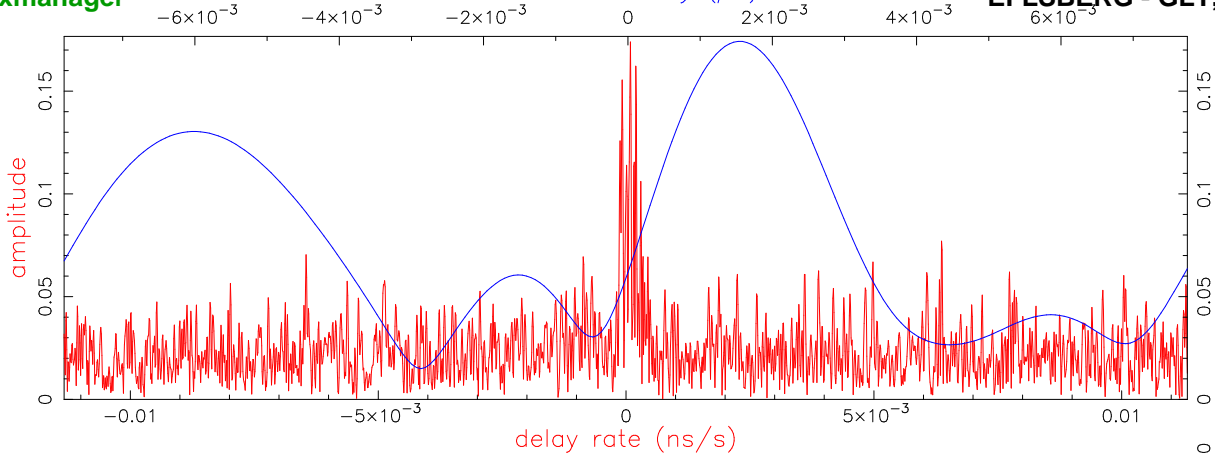
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, Bg

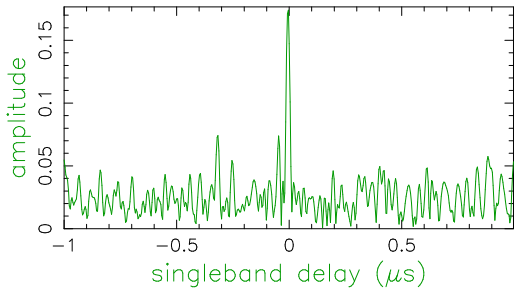
EFLSBERG - GLT, fgroup W, pol RL

multiband delay (μ s)

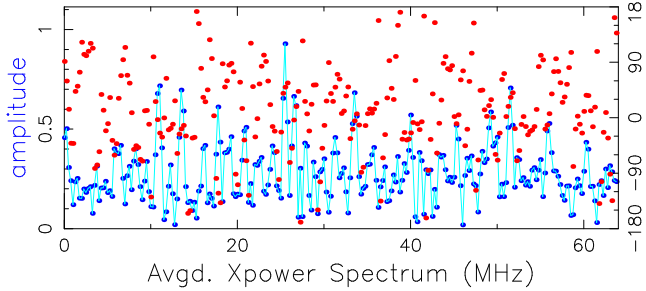


Fringe quality 9

SNR 9.2
 Int time 359.913
 Amp 0.177
 Phase -71.0
 PFD 1.9e-11
 Delays (us)
 SBD -0.005520
 MBD 0.001481
 Fringe rate (Hz)
 0.007252
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

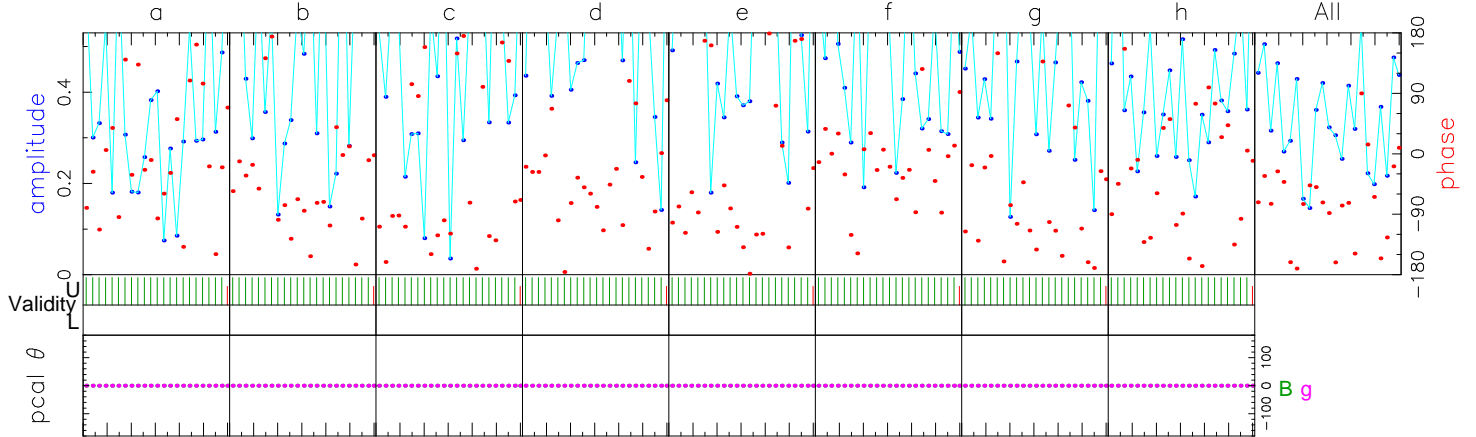


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135424
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-36.7	-58.1	-136.0	-49.5	-115.9	-13.0	-105.9	-51.3	Phase	-71.0
	0.1	0.3	0.3	0.3	0.3	0.3	0.2	0.1	Ampl.	0.2
	348.7	255.7	256.7	256.4	256.7	256.0	343.8	166.2	Sbd box	255.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-7.35790111344E+03		Apriori delay (usec)		-7.35790259427E+03		Resid mbdelay (usec)		1.48083E-03	+/- 1.2E-04
Sband delay (usec)	-7.35790811477E+03		Apriori clock (usec)		-2.2492220E+01		Resid sbdelay (usec)		-5.52050E-03	+/- 9.4E-04
Phase delay (usec)	-7.35790259656E+03		Apriori clockrate (us/s)		-5.9999999E-08		Resid phdelay (usec)		-2.29094E-06	+/- 4.0E-07
Delay rate (us/s)	-6.33831234771E-01		Apriori rate (us/s)		-6.33831318959E-01		Resid rate (us/s)		8.41880E-08	+/- 1.9E-09
Total phase (deg)			Apriori accel (us/s/s)		2.36975052598E-05		Resid phase (deg)		-71.0	+/- 12.5

ph/seg (deg) 62.4 30.0 Search (2048X32) 0.168 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 112.5 52.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 46.6 17.7 Inc. seg. avg. 0.301 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 58.3 30.9 Inc. frq. avg. 0.224 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 302.9 el 28.7 pa 46.3 g: az 205.0 el 54.9 pa 7.2 u,v (fr/asec) 4957.008 315.110 ion window (TEC) 0.00 0.00
 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/Bg..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/Bg.W.65.1W5ADF

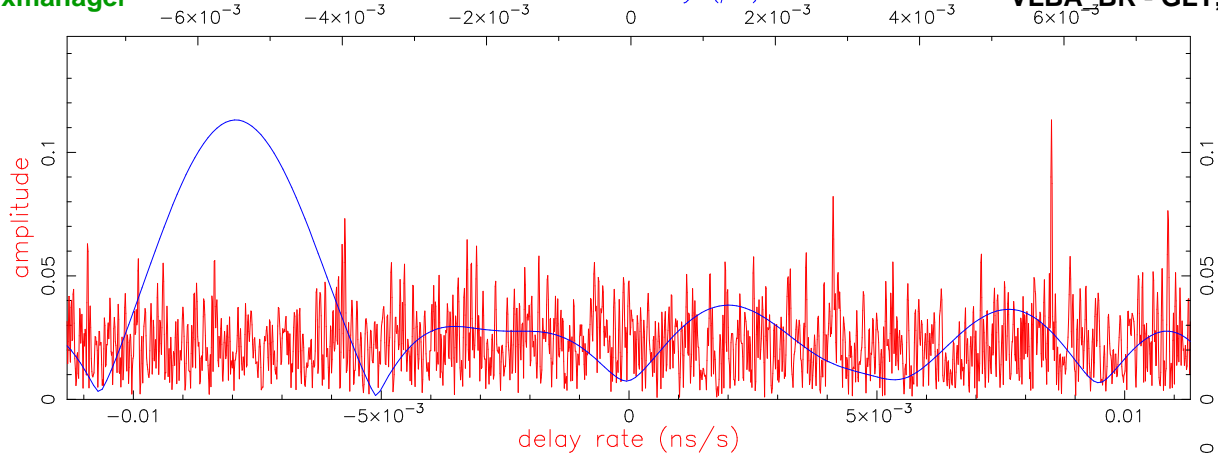
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, bg

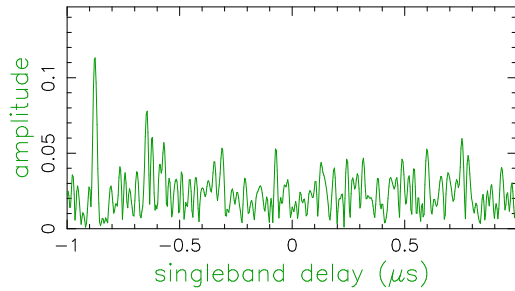
VLBA_BR - GLT, fgroup W, pol RL

multiband delay (μ s)

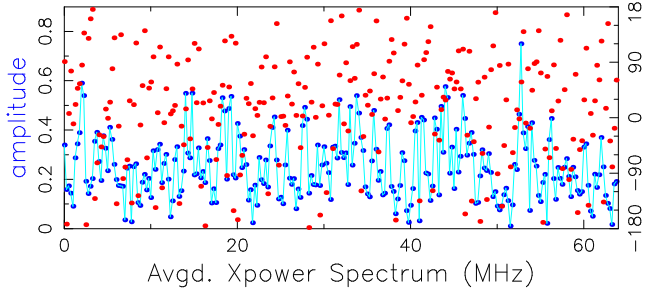


Fringe quality 0

SNR 5.9
 Int time 350.013
 Amp 0.147
 Phase 92.2
 PFD 6.4e-01
 Delays (us)
 SBD -0.876764
 MBD -0.005498
 Fringe rate (Hz)
 0.735442
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

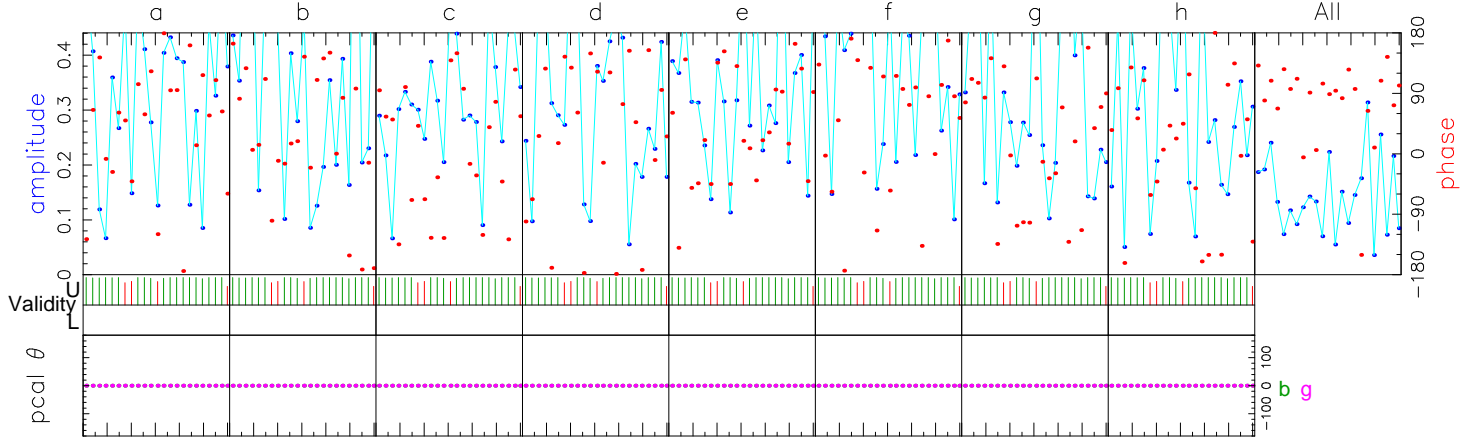


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135424
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	694/0	694/0	694/0	694/0	694/0	694/0	694/0	694/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
g	0	0	0	0	0	0	0	0		
b:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:g	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		
g	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks
Group delay (usec)(sbd)	2.31224468596E+03		Apriori delay (usec)		2.31312518384E+03		Resid mbdelay (usec)		-5.49788E-03	+/- 1.8E-04
Sband delay (usec)	2.31224841934E+03		Apriori clock (usec)		-3.4045868E+00		Resid sbdelay (usec)		-8.76764E-01	+/- 1.5E-03
Phase delay (usec)	2.31312518682E+03		Apriori clockrate (us/s)		-1.6000000E-07		Resid phdelay (usec)		2.97370E-06	+/- 6.3E-07
Delay rate (us/s)	4.84645252708E-01		Apriori rate (us/s)		4.84636714955E-01		Resid rate (us/s)		8.53775E-06	+/- 3.1E-09
Total phase (deg)	213.2		Apriori accel (us/s/s)		-2.97017966762E-05		Resid phase (deg)		92.2	+/- 19.5

	RMS	Theor.	Amplitude	0.147 +/- 0.025	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	45.5	46.4	Search (2048X32)	0.109	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	66.8	81.0	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	17.6	27.5	Inc. seg. avg.	0.140	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	31.9	48.1	Inc. frq. avg.	0.134	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 92.6 el 67.1 pa -64.3 g: az 205.0 el 54.9 pa 7.2 u,v (fr/asec) -3816.333 -3574.557 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/bg..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/bg.W.69.1W5ADF

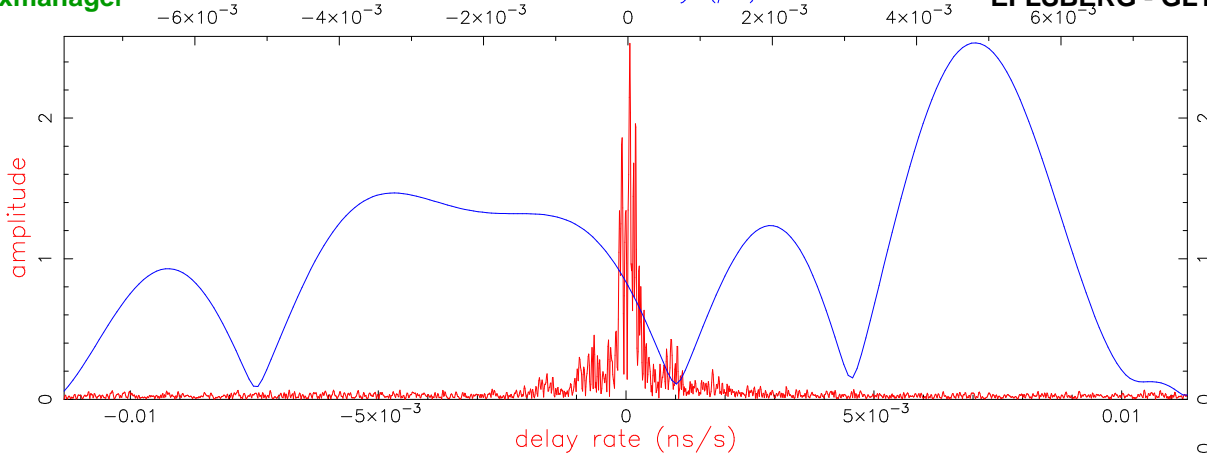
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, Bg

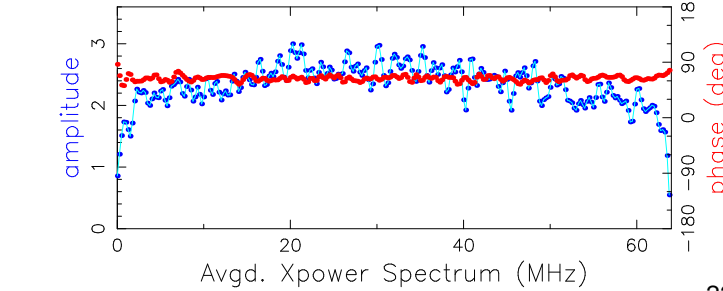
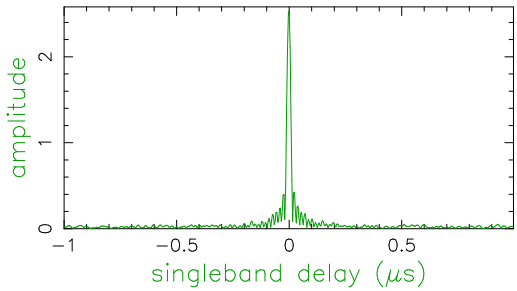
EFLSBERG - GLT, fgroup W, pol LL

multiband delay (μ s)



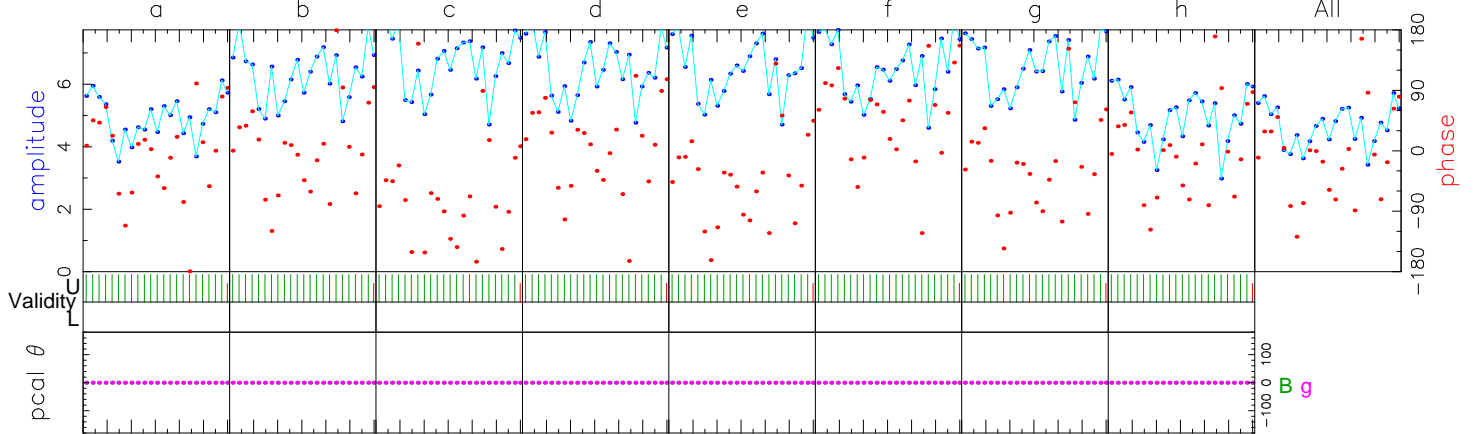
Fringe quality 2

SNR 133.9
 Int time 359.913
 Amp 2.581
 Phase -11.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.001780
 MBD 0.004758
 Fringe rate (Hz)
 0.007110
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135413
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

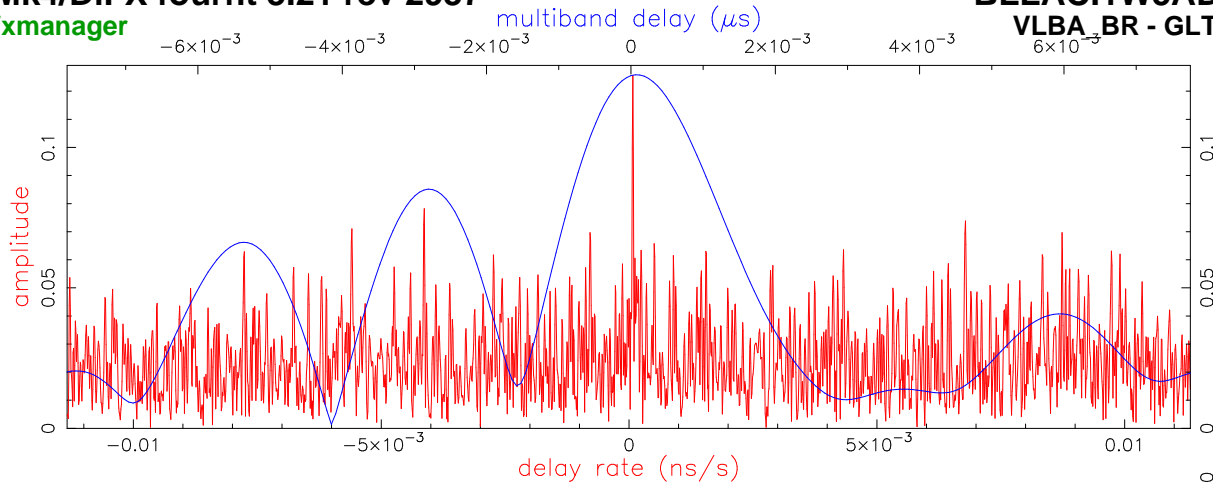


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	6.1	-1.9	-83.9	16.1	-46.1	60.9	-29.6	-5.7	Phase	-11.3
	2.7	3.4	3.6	3.5	3.6	3.5	3.5	2.7	Ampl.	3.3
	255.3	256.4	257.3	257.4	257.4	257.3	256.7	255.7	Sbd box	256.5
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-7.35789783621E+03		Apriori delay (usec)		-7.35790259427E+03		Resid mbdelay (usec)		4.75805E-03	+/- 8.1E-06
Sband delay (usec)	-7.35790437377E+03		Apriori clock (usec)		-2.2492220E+01		Resid sbdelay (usec)		-1.77950E-03	+/- 6.4E-05
Phase delay (usec)	-7.35790259463E+03		Apriori clockrate (us/s)		-5.9999999E-08		Resid phdelay (usec)		-3.65199E-07	+/- 2.8E-08
Delay rate (us/s)	-6.33831236415E-01		Apriori rate (us/s)		-6.33831318959E-01		Resid rate (us/s)		8.25448E-08	+/- 1.3E-10
Total phase (deg)			Apriori accel (us/s/s)		2.36975052598E-05		Resid phase (deg)		-11.3	+/- 0.9

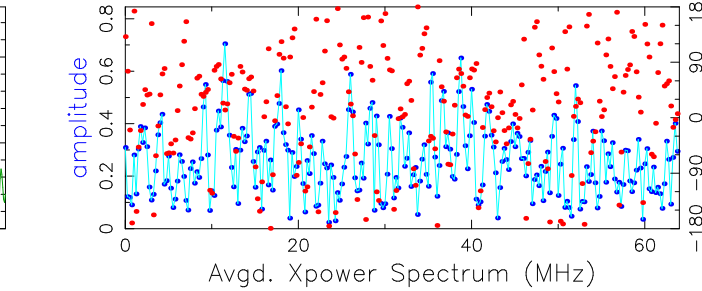
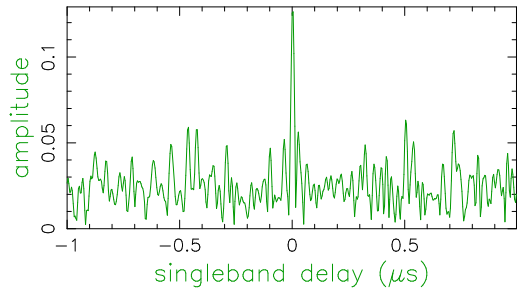
	RMS	Theor.	Amplitude	2.581 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	66.1	2.1	Search (2048X32)	2.430	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	84.0	3.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	46.9	1.2	Inc. seg. avg.	4.653	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	32.6	2.1	Inc. frq. avg.	3.336	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 302.9 el 28.7 pa 46.3 g: az 205.0 el 54.9 pa 7.2 u,v (fr/asec) 4957.008 315.110 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/Bg..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/Bg.W.7.1W5ADF

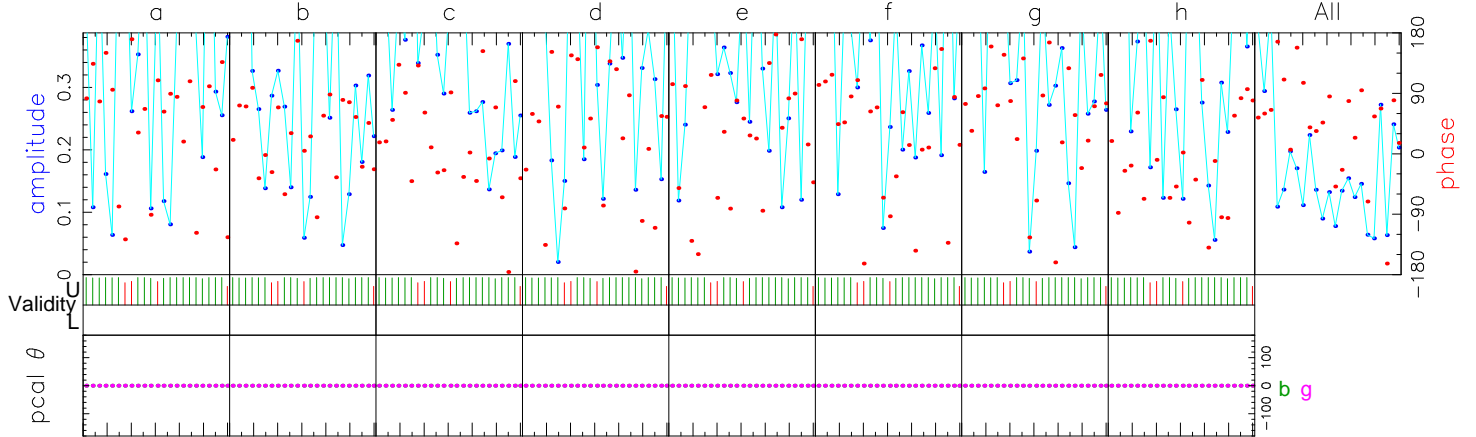


Fringe quality 0
SNR 6.6
Int time 350.013
Amp 0.129
Phase 60.0
PFD 1.1e-02
Delays (us)
SBD 0.002064
MBD 0.000153
Fringe rate (Hz) 0.007038
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 134500.00
Stop 135059.94
FRT 134800.00
Corr/FF/build
2021:286:102153
2021:286:135413
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	694/0	694/0	694/0	694/0	694/0	694/0	694/0	694/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
g	0	0	0	0	0	0	0	0		
b:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:g	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		
g	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	2.31312533696E+03		Apriori delay (usec)		2.31312518384E+03		Resid mbdelay (usec)		1.53117E-04	+/- 1.6E-04
Sband delay (usec)	2.31312724809E+03		Apriori clock (usec)		-3.4045868E+00		Resid sbdelay (usec)		2.06425E-03	+/- 1.3E-03
Phase delay (usec)	2.31312518578E+03		Apriori clockrate (us/s)		-1.6000000E-07		Resid phdelay (usec)		1.93505E-06	+/- 5.6E-07
Delay rate (us/s)	4.84636796661E-01		Apriori rate (us/s)		4.84636714955E-01		Resid rate (us/s)		8.17066E-08	+/- 2.7E-09
Total phase (deg)	181.0		Apriori accel (us/s/s)		-2.97017966762E-05		Resid phase (deg)		60.0	+/- 17.3

	RMS	Theor.	Amplitude	0.129 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	62.8	41.3	Search (2048X32)	0.122	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	84.2	72.1	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	42.0	24.5	Inc. seg. avg.	0.137	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	30.4	42.8	Inc. frq. avg.	0.142	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 92.6 el 67.1 pa -64.3 g: az 205.0 el 54.9 pa 7.2 u,v (fr/asec) -3816.333 -3574.557 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/bg..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/bg.W.8.1W5ADF

Mk4/DiFX fourfit 3.21 rev 2937

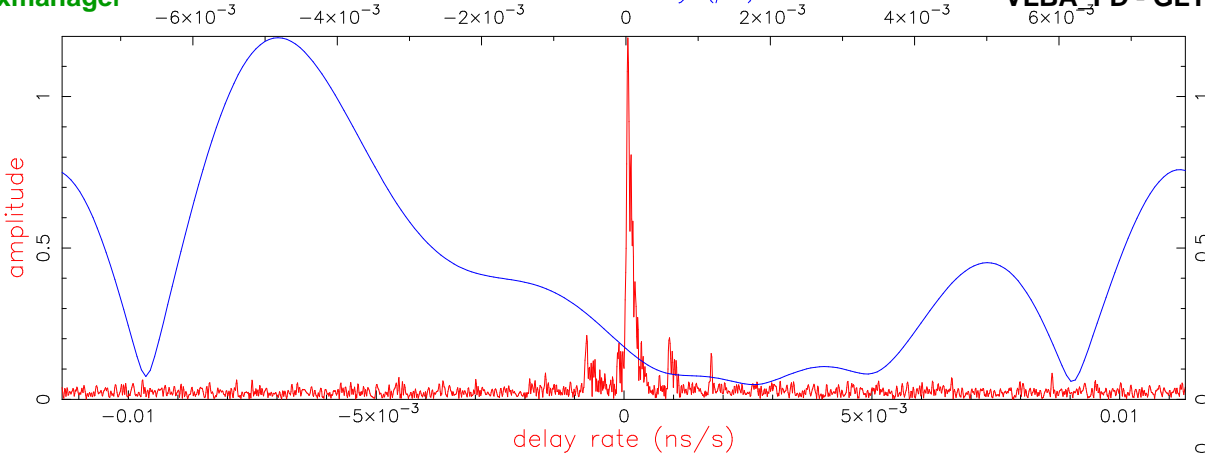
fxmanager

BLLAC.1W5ADF, No0245, fg

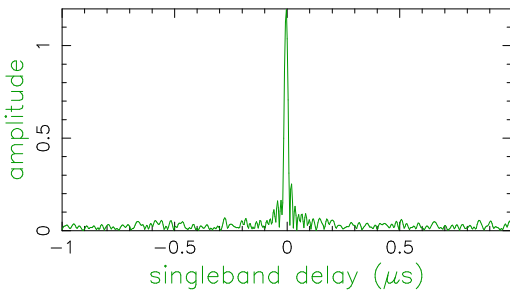
VLBA_FD - GLT, fgroup W, pol RR

multiband delay (μ s)

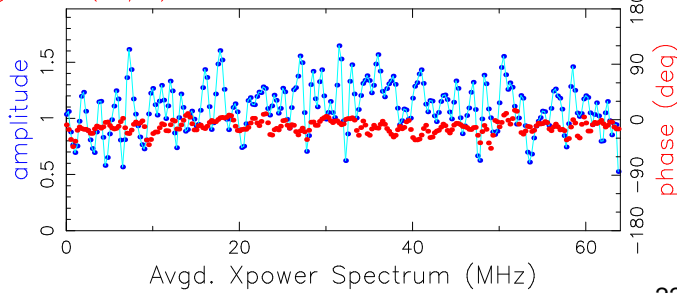
Fringe quality 2



SNR 61.7
Int time 353.793
Amp 1.199
Phase -9.5
PFD 0.0e+00
Delays (us)
SBD -0.004717
MBD -0.004864
Fringe rate (Hz)
0.006258
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

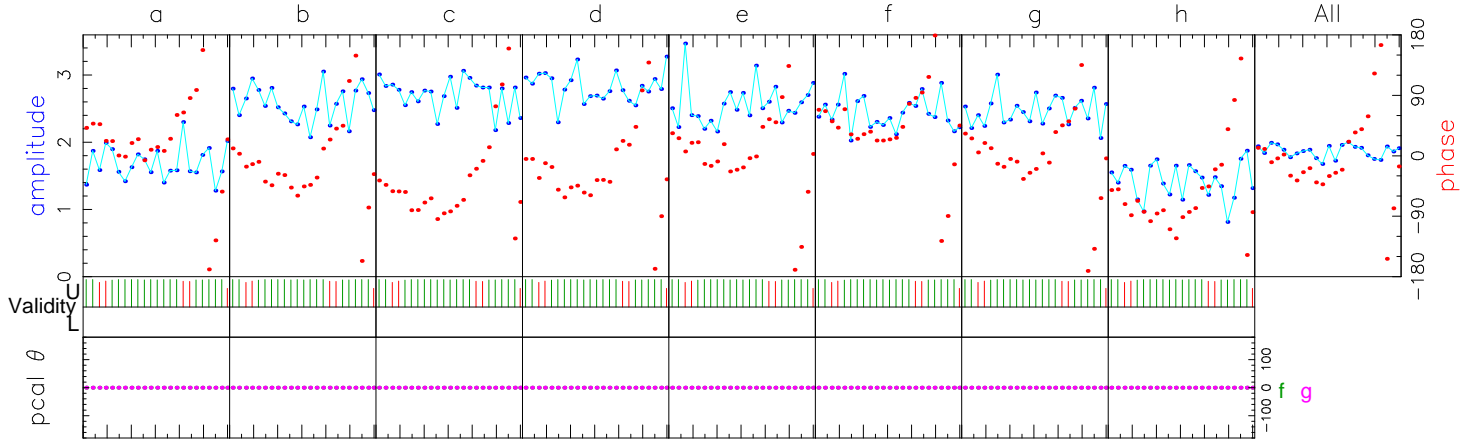


delay rate (ns/s)



Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 134500.00
Stop 135059.94
FRT 134800.00
Corr/FF/build
2021:286:102153
2021:286:135433
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	31.1	-18.3	-57.3	-25.6	9.5	49.3	5.4	-77.8	Phase	-9.5
	1.1	1.6	1.8	1.8	1.6	1.6	1.6	0.9	Ampl.	1.5
	254.2	255.5	256.1	256.1	256.1	256.1	255.3	253.8	Sbd box	255.8
U/L	698/0	698/0	698/0	698/0	699/0	699/0	698/0	698/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
f:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:g	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	
g	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)		3.01062116475E+03				3.01062602876E+03			Resid mbdelay (usec)	-4.86401E-03 +/- 1.8E-05
Sband delay (usec)		3.01062131151E+03				9.8010006E+00			Resid sbdelay (usec)	-4.71725E-03 +/- 1.4E-04
Phase delay (usec)		3.01062602846E+03				0.0000000E+00			Resid phdelay (usec)	-3.04761E-03 +/- 6.0E-08
Delay rate (us/s)		3.48589255120E-01				3.48589182470E-01			Resid rate (us/s)	7.26498E-08 +/- 2.9E-10
Total phase (deg)			32.8			-5.12105686973E-05			Resid phase (deg)	-9.5 +/- 1.9
	RMS	Theor.	Amplitude	1.199 +/- 0.019					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	62.7	4.4	Search (2048X32)	1.175					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	56.0	7.8	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	46.5	2.6	Inc. seg. avg.	1.859					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	35.2	4.6	Inc. frq. avg.	1.495					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
f: az 43.1 el 72.6 pa -126.0			g: az 205.0 el 54.9 pa 7.2			u, v (fr/asec) -2806.047 -6667.522			nlags: 256 t_cohere infinite	simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/fg..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/fg.W.107.1W5ADF

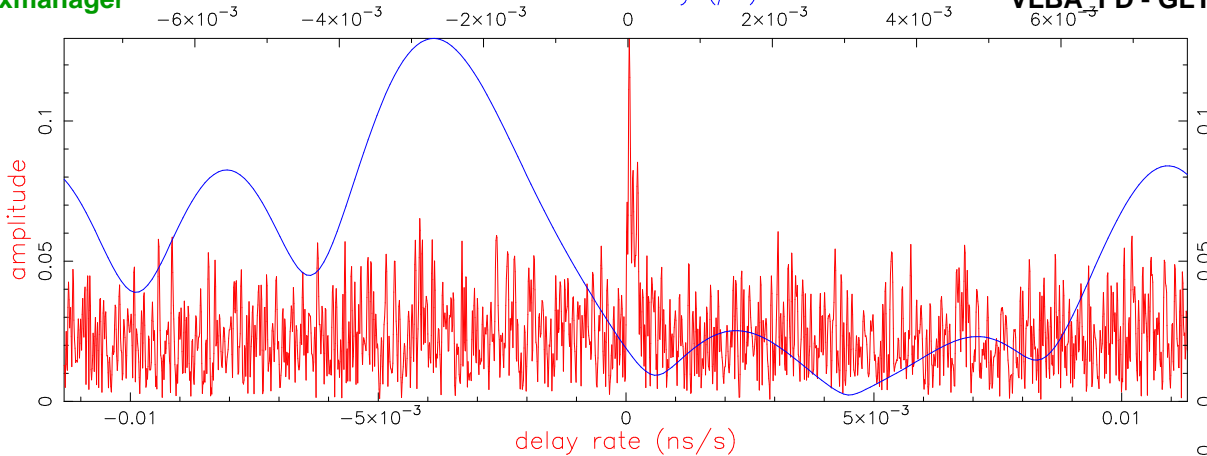
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, fg

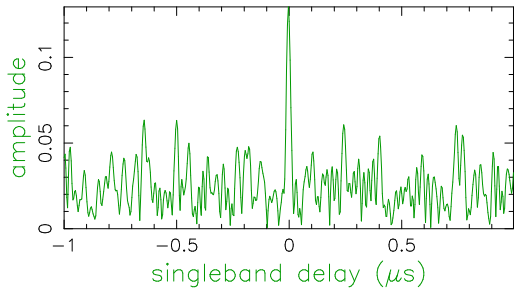
VLBA_FD - GLT, fgroup W, pol LR

multiband delay (μ s)

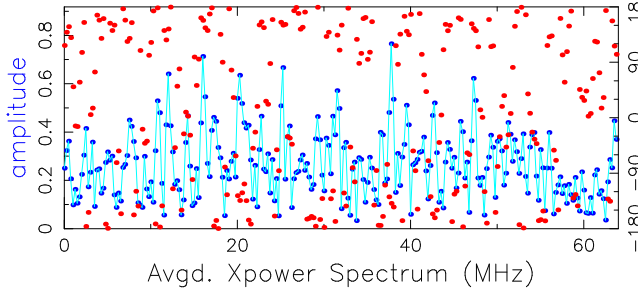


Fringe quality 0

SNR 6.7
 Int time 353.792
 Amp 0.129
 Phase 157.6
 PFD 7.9e-03
 Delays (us)
 SBD -0.003728
 MBD -0.002689
 Fringe rate (Hz)
 0.006163
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

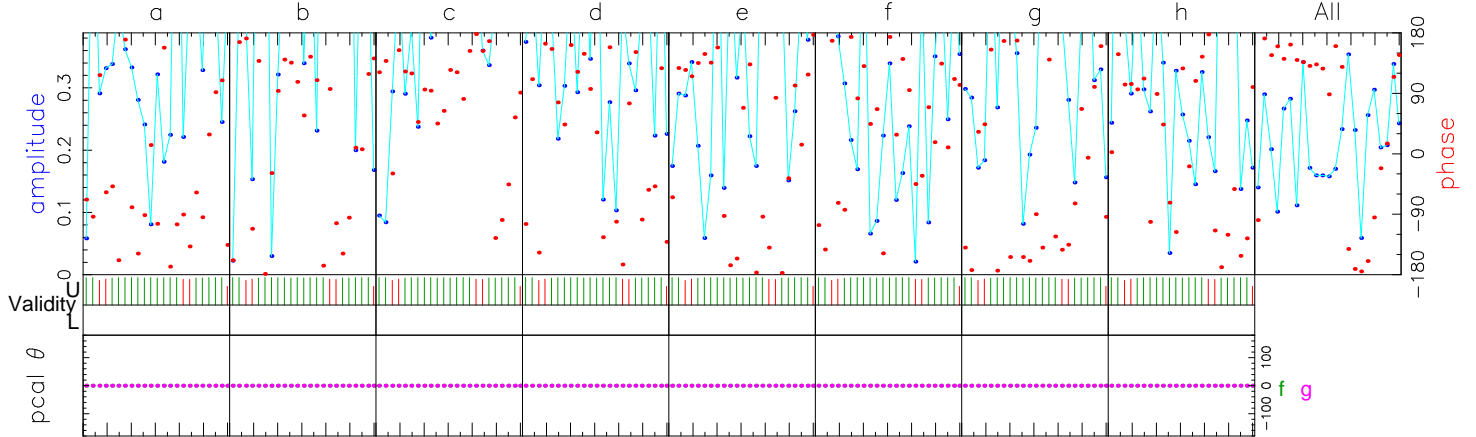


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135437
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-109.6	153.9	105.0	146.6	151.1	151.2	-170.0	158.1	Phase	157.6
	0.2	0.3	0.2	0.1	0.2	0.1	0.2	0.1	Ampl.	0.2
	172.6	256.4	255.9	407.2	257.0	499.6	257.3	182.9	Sbd box	256.0
U/L	698/0	698/0	698/0	698/0	698/0	698/0	698/0	698/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g	0	0	0	0	0	0	0	0	PC freqs	
f:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:g	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	
g	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.01062334014E+03		Apriori delay (usec)		3.01062602876E+03		Resid mbdelay (usec)		-2.68862E-03	+/- 1.6E-04
Sband delay (usec)	3.01062230101E+03		Apriori clock (usec)		9.8010006E+00		Resid sbdelay (usec)		-3.72775E-03	+/- 1.3E-03
Phase delay (usec)	3.01062603384E+03		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		5.08199E-06	+/- 5.5E-07
Delay rate (us/s)	3.48589254019E-01		Apriori rate (us/s)		3.48589182470E-01		Resid rate (us/s)		7.15494E-08	+/- 2.7E-09
Total phase (deg)	199.9		Apriori accel (us/s/s)		-5.12105686973E-05		Resid phase (deg)		157.6	+/- 17.2

	RMS	Theor.	Amplitude	0.129 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	64.4	41.1	Search (2048X32)	0.124	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	90.7	71.8	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	45.9	24.3	Inc. seg. avg.	0.172	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	50.4	42.5	Inc. frq. avg.	0.152	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

f: az 43.1 el 72.6 pa -126.0 g: az 205.0 el 54.9 pa 7.2 u,v (fr/asec) -2806.047 -6667.522 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/fg..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/fg.W.127.1W5ADF

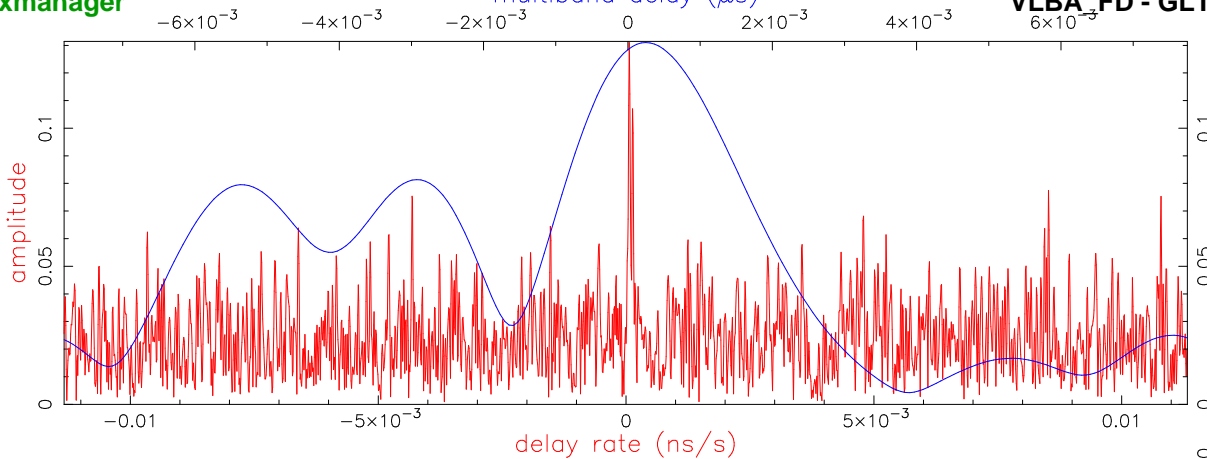
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, fg

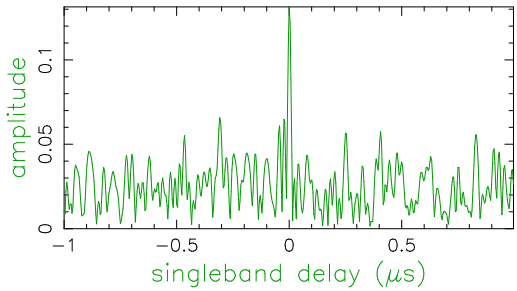
VLBA_FD - GLT, fgroup W, pol RL

multiband delay (μ s)

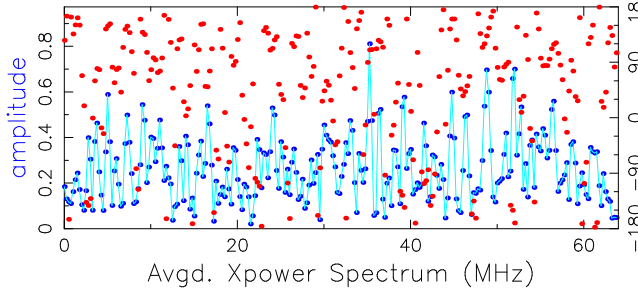


Fringe quality 0

SNR 6.8
 Int time 353.793
 Amp 0.131
 Phase 116.3
 PFD 4.0e-03
 Delays (us)
 SBD 0.000687
 MBD 0.000279
 Fringe rate (Hz)
 0.005465
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

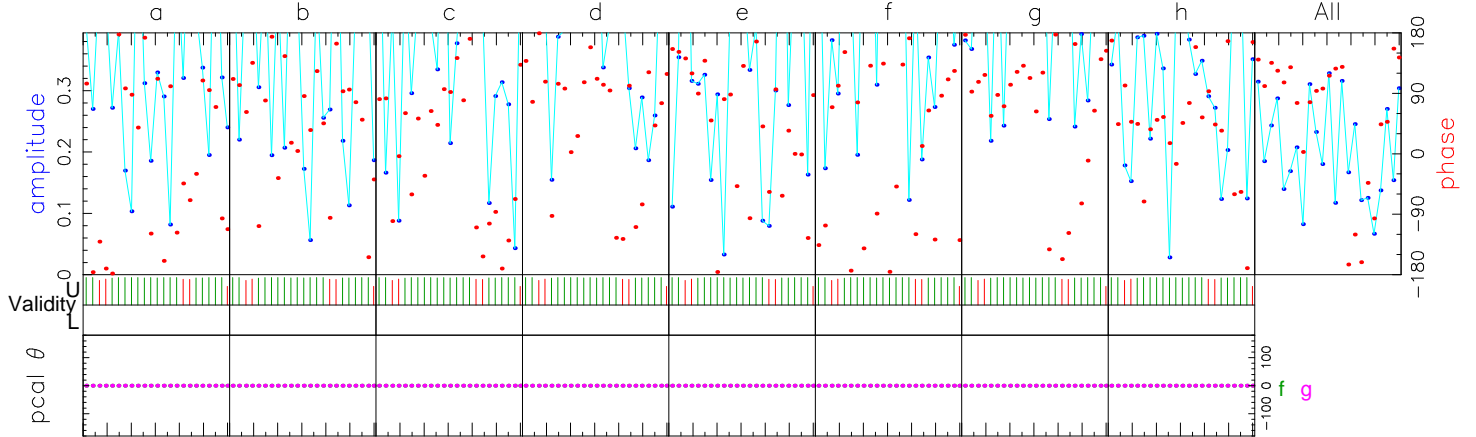


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135440
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All		
U/L	698/0	698/0	698/0	698/0	699/0	699/0	698/0	698/0				
f	1000	1000	1000	1000	1000	1000	1000	1000				
g	0	0	0	0	0	0	0	0				
f:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0				
fg	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0				
f	1000	1000	1000	1000	1000	1000	1000	1000				
g	1000	1000	1000	1000	1000	1000	1000	1000				
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR				
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL				
Group delay (usec)(sbd)		3.01062630736E+03				3.01062602876E+03			Resid mbdelay (usec)	2.78596E-04 +/- 1.6E-04		
Sband delay (usec)		3.01062671601E+03				9.8010006E+00			Resid sbdelay (usec)	6.87250E-04 +/- 1.3E-03		
Phase delay (usec)		3.01062603251E+03				0.0000000E+00			Resid phdelay (usec)	3.74911E-06 +/- 5.5E-07		
Delay rate (us/s)		3.48589245917E-01				3.48589182470E-01			Resid rate (us/s)	6.34471E-08 +/- 2.6E-09		
Total phase (deg)			158.6						Resid phase (deg)	116.3 +/- 17.0		
	RMS	Theor.	Amplitude	0.131 +/- 0.019					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	68.3	40.5	Search (2048X32)	0.128					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
amp/seg (%)	81.4	70.7	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
ph/frq (deg)	45.4	24.0	Inc. seg. avg.	0.162					Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011	
amp/frq (%)	61.9	41.8	Inc. frq. avg.	0.146					Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

f: az 43.1 el 72.6 pa -126.0 g: az 205.0 el 54.9 pa 7.2 u,v (fr/asec) -2806.047 -6667.522 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/fg..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/fg.W.146.1W5ADF

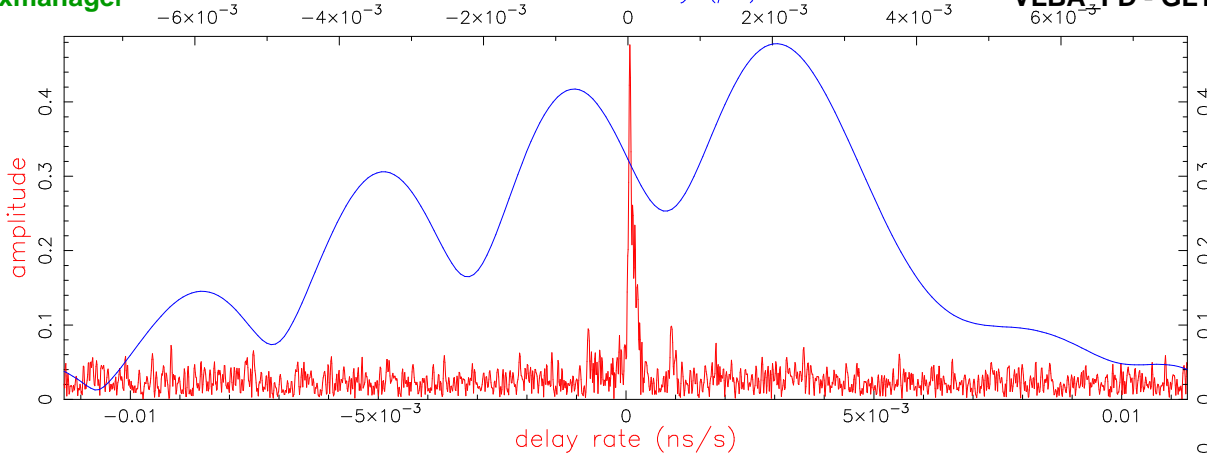
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, fg

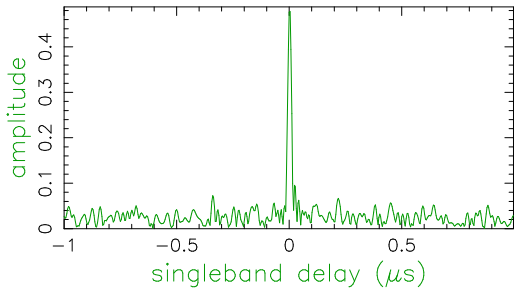
VLBA_FD - GLT, fgroup W, pol LL

multiband delay (μ s)

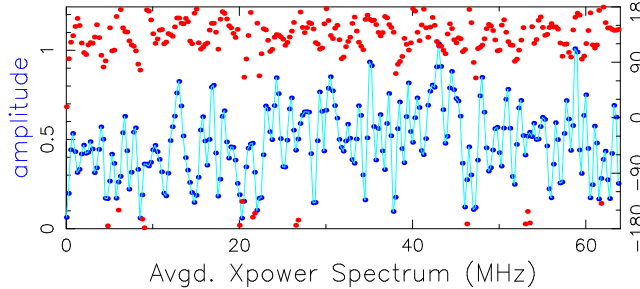


Fringe quality 5

SNR 25.1
 Int time 353.792
 Amp 0.488
 Phase 136.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.002002
 MBD 0.002157
 Fringe rate (Hz) 0.006238
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

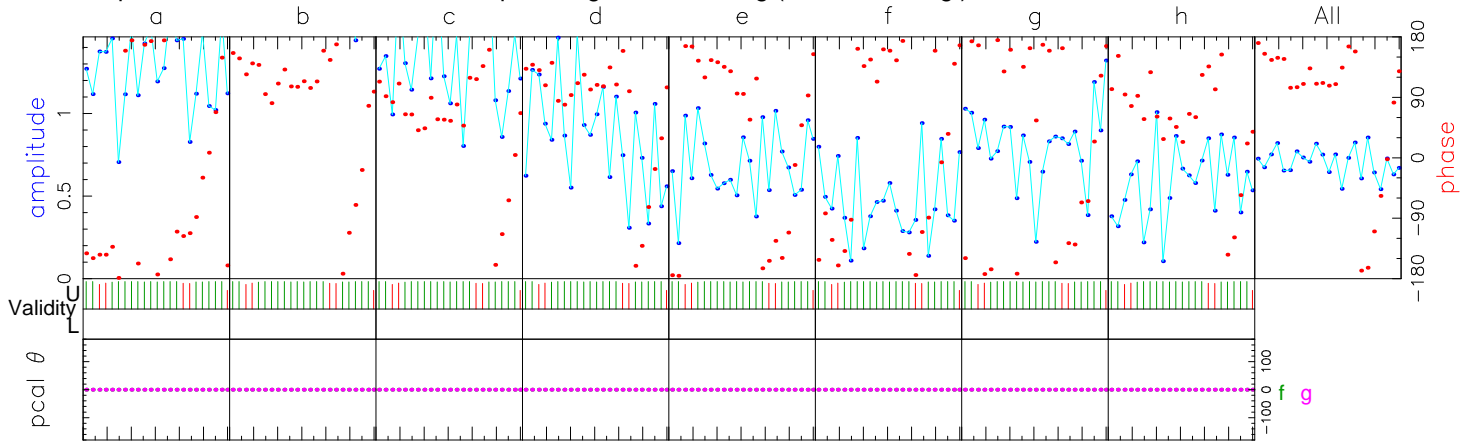


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135430
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	698/0	698/0	698/0	698/0	698/0	698/0	698/0	698/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
g	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		3.01062818616E+03				3.01062602876E+03			Resid mbdelay (usec)	2.15740E-03 +/- 4.3E-05
Sband delay (usec)		3.01062803076E+03				9.8010006E+00			Resid sbdelay (usec)	2.00200E-03 +/- 3.4E-04
Phase delay (usec)		3.01062603317E+03				0.0000000E+00			Resid phdelay (usec)	4.40377E-06 +/- 1.5E-07
Delay rate (us/s)		3.48589254891E-01				3.48589182470E-01			Resid rate (us/s)	7.24210E-08 +/- 7.1E-10
Total phase (deg)			178.9			-5.12105686973E-05			Resid phase (deg)	136.6 +/- 4.6
ph/seg (deg)	RMS 59.1	Theor. 10.9	Amplitude 59.1	0.488 +/- 0.019					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	47.8	19.0	Search (2048X32)	0.468					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	49.5	6.5	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%)	70.4	11.3	Inc. seg. avg.	0.694					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
			Inc. frq. avg.	0.630					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
f: az 43.1 el 72.6 pa -126.0			g: az 205.0 el 54.9 pa 7.2			u, v (fr/asec) -2806.047 -6667.522				simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/fg..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/fg.W.86.1W5ADF

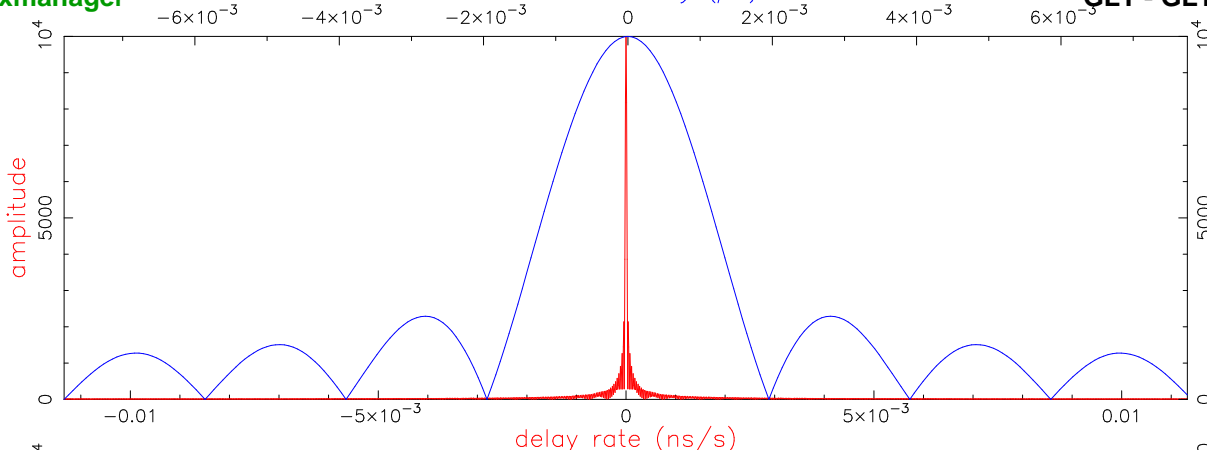
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

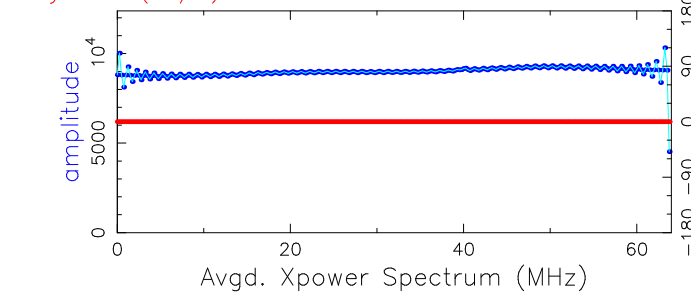
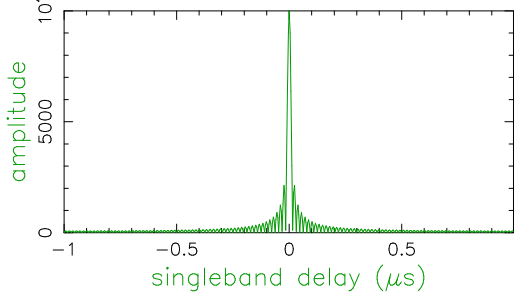
BLLAC.1W5ADF, No0245, gg

GLT - GLT, fgroup W, pol LL

multiband delay (μ s)

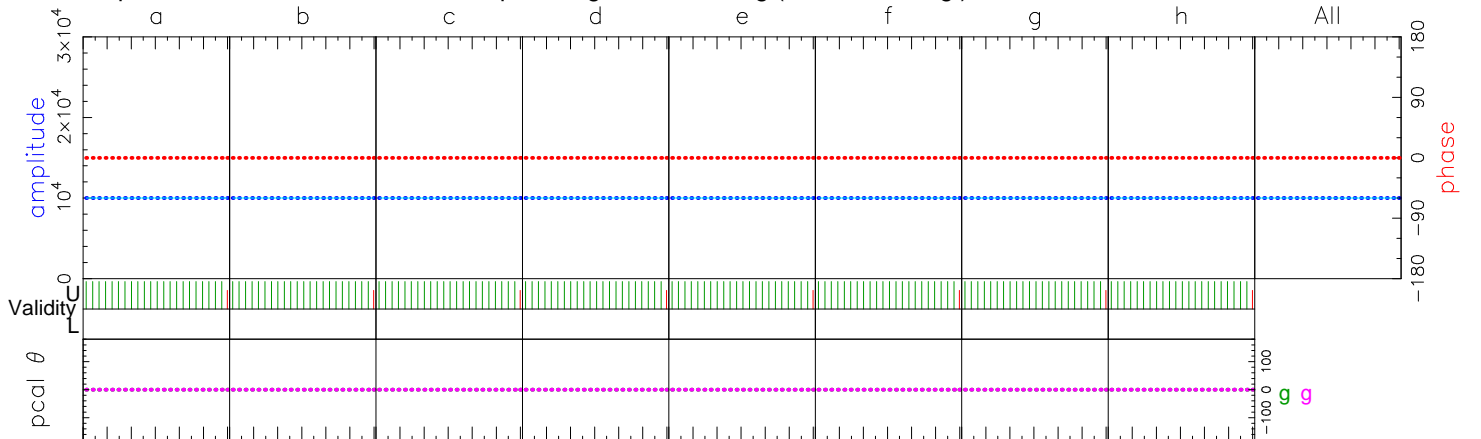


Fringe quality 9
 SNR 518799.7
 Int time 359.918
 Amp 10000.001
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz) 0.000000
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135432
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
g	0	0	0	0	0	0	0	0		
g:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
g	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		
Phase delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		
Total phase (deg)			0.0							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

ph/seg (deg) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
 amp/seg (%) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
 ph/frq (deg) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
 amp/frq (%) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
 g: az 205.0 el 54.9 pa 7.2 g: az 205.0 el 54.9 pa 7.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gg..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gg.W.100.1W5ADF

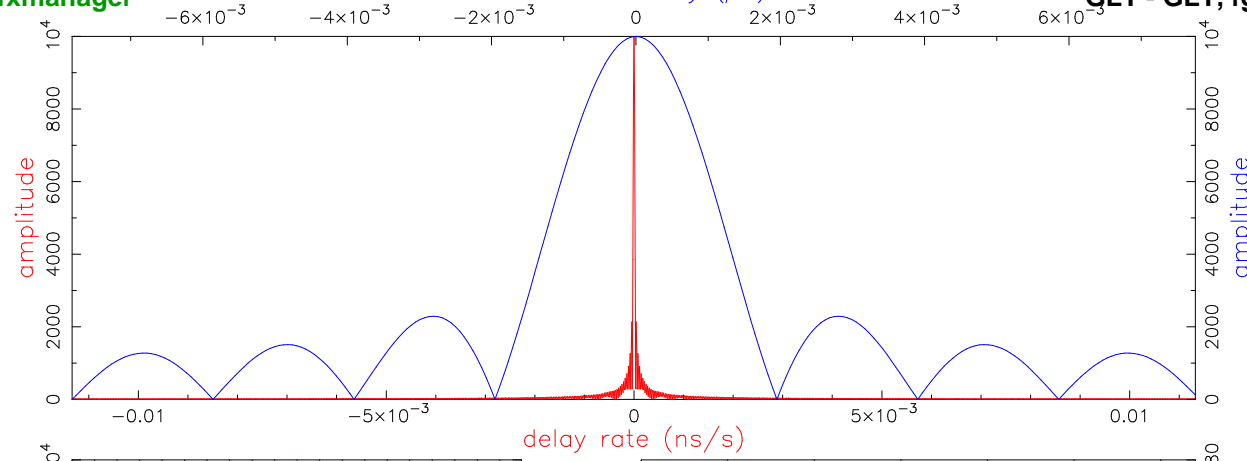
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gg

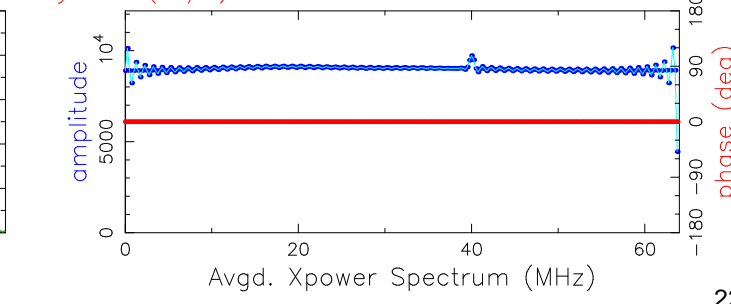
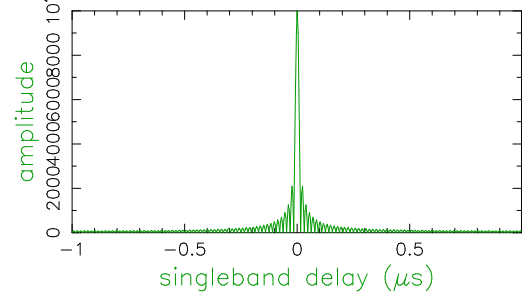
GLT - GLT, fgroup W, pol RR

multiband delay (μ s)



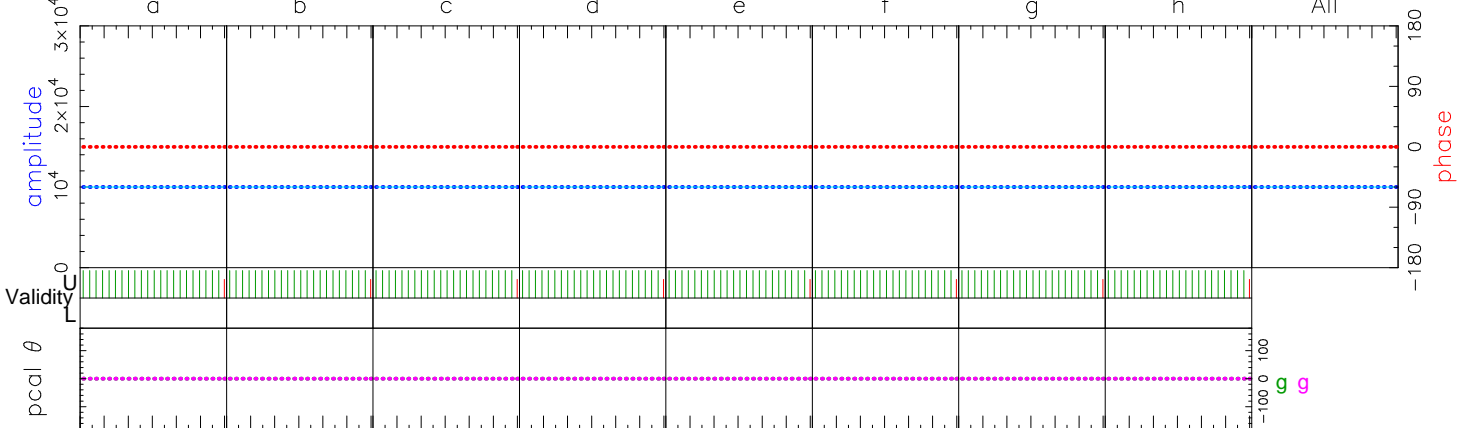
Fringe quality 9

SNR 518799.6
 Int time 359.918
 Amp 10000.000
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135435
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
g	0	0	0	0	0	0	0	0		
g:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
g	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 2.1E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.7E-08
 Phase delay (usec) 0.0000000000E+00 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 0.00000E+00 +/- 7.1E-12
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 3.4E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

RMS Theor. Amplitude 10000.000 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

g: az 205.0 el 54.9 pa 7.2 g: az 205.0 el 54.9 pa 7.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gg..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gg.W.119.1W5ADF

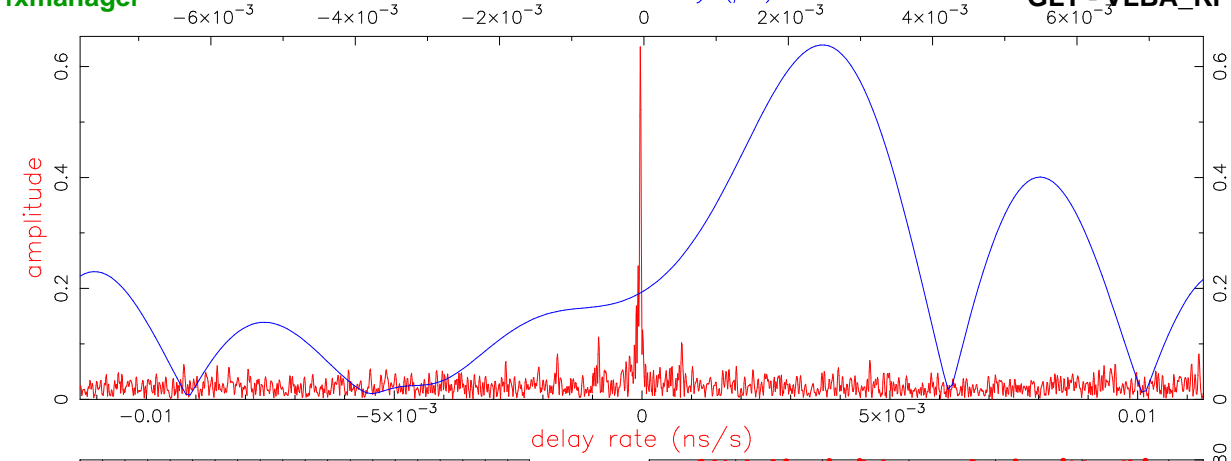
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gk

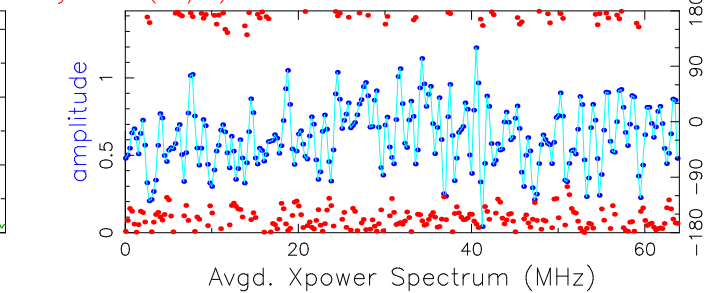
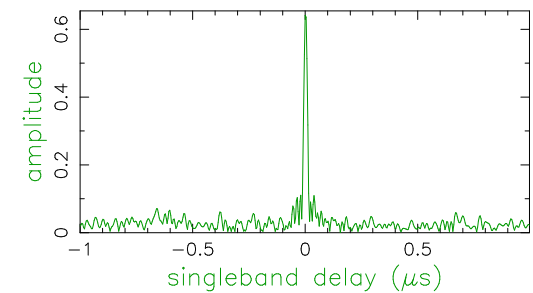
GLT - VLBA_KP, fgroup W, pol LL

multiband delay (μ s)



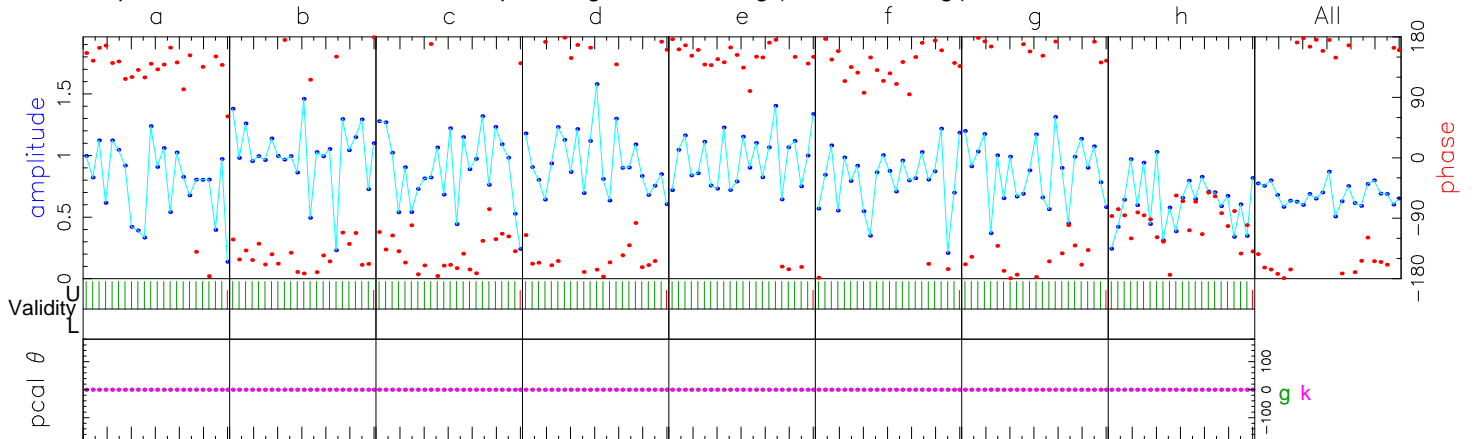
Fringe quality 6

SNR 34.0
 Int time 359.916
 Amp 0.654
 Phase -173.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.001787
 MBD 0.002352
 Fringe rate (Hz)
 -0.003060
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135442
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	145.0	-149.9	-141.0	-166.7	156.4	143.1	-170.5	-96.3	Phase	-173.1
	0.7	0.9	0.8	0.8	0.9	0.7	0.8	0.5	Ampl.	0.8
	259.7	257.8	256.9	257.2	257.6	257.0	258.1	260.1	Sbd box	257.5
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.52472760821E+03		Apriori delay (usec)		-2.52472996037E+03		Resid mbdelay (usec)		2.35216E-03	+/- 3.2E-05
Sband delay (usec)	-2.52472817362E+03		Apriori clock (usec)		1.1021996E-01		Resid sbdelay (usec)		1.78675E-03	+/- 2.5E-04
Phase delay (usec)	-2.52472996595E+03		Apriori clockrate (us/s)		5.9999999E-08		Resid phdelay (usec)		-5.58224E-06	+/- 1.1E-07
Delay rate (us/s)	-4.68258839100E-01		Apriori rate (us/s)		-4.68258803581E-01		Resid rate (us/s)		-3.55193E-08	+/- 5.2E-10
Total phase (deg)			Apriori accel (us/s/s)		4.71808590629E-05		Resid phase (deg)		-173.1	+/- 3.4

ph/seg (deg) 21.0 8.1 Amplitude 0.654 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 13.7 14.1 Interp. 0.633 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 44.9 4.8 Inc. seg. avg. 0.674 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 25.4 8.3 Inc. frq. avg. 0.774 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 g: az 205.0 el 54.9 pa 7.2 k: az 54.2 el 68.5 pa -110.7 u,v (fr/asec) 3725.507 6237.604 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gk..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gk.W.155.1W5ADF

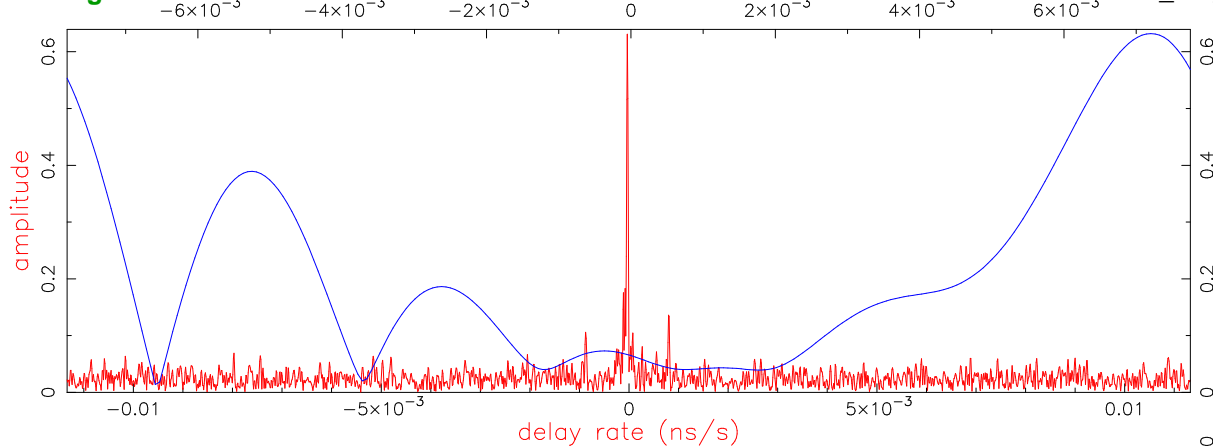
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gk

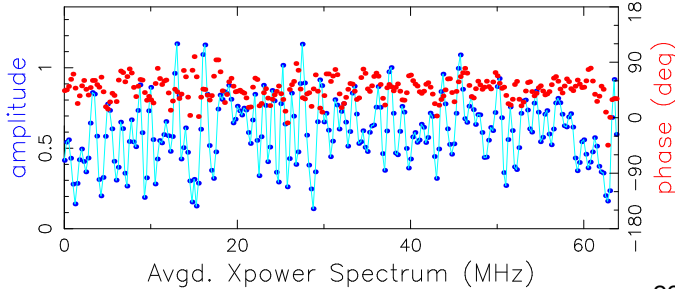
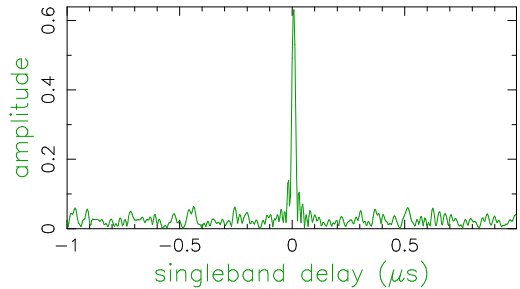
GLT - VLBA_KP, fgroup W, pol RR

multiband delay (μ s)



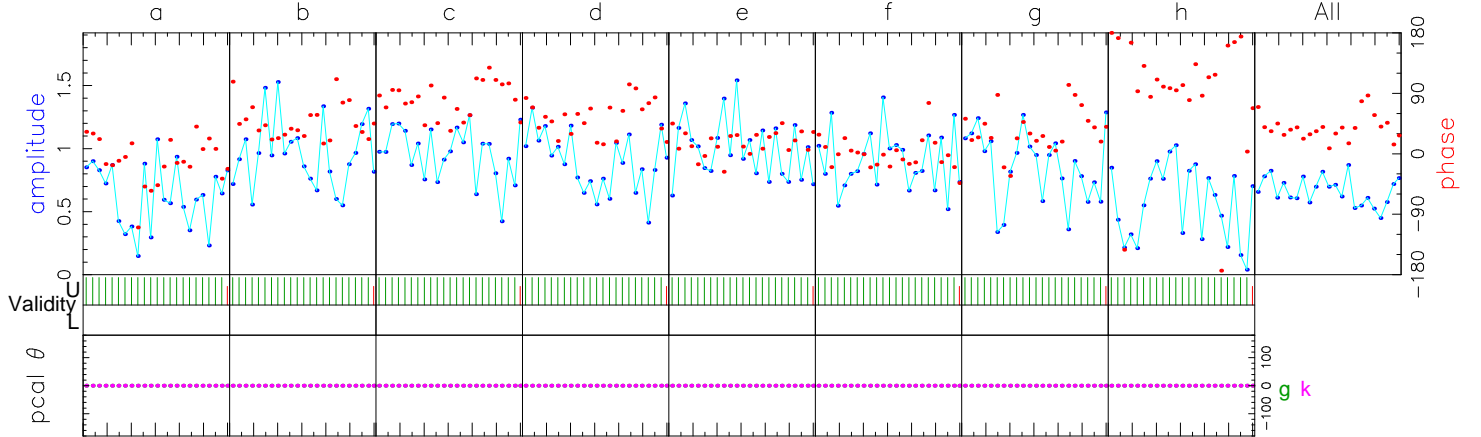
Fringe quality 6

SNR 33.2
 Int time 359.916
 Amp 0.639
 Phase 37.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.006334
 MBD 0.007124
 Fringe rate (Hz)
 -0.003118
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135446
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-6.7	41.3	80.5	53.4	15.1	-0.8	31.9	120.1		Phase 37.4
	0.5	0.9	0.9	0.8	1.0	0.8	0.8	0.5		Ampl. 0.8
	261.0	259.0	258.3	258.0	258.8	258.2	259.3	261.0		Sbd box 258.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		APs used
g	0	0	0	0	0	0	0	0		PC freqs
k	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
g:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
g:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
g	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
k	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
										Chan ids
										Tracks
Group delay (usec)(sbd)	-2.52472283665E+03		Apriori delay (usec)		-2.52472996037E+03		Resid mbdelay (usec)		7.12372E-03	+/- 3.3E-05
Sband delay (usec)	-2.52472362687E+03		Apriori clock (usec)		1.1021996E-01		Resid sbdelay (usec)		6.33350E-03	+/- 2.6E-04
Phase delay (usec)	-2.52472995916E+03		Apriori clockrate (us/s)		5.9999999E-08		Resid phdelay (usec)		1.20587E-06	+/- 1.1E-07
Delay rate (us/s)	-4.68258839781E-01		Apriori rate (us/s)		-4.68258803581E-01		Resid rate (us/s)		-3.62002E-08	+/- 5.4E-10
Total phase (deg)			Apriori accel (us/s/s)		4.71808590629E-05		Resid phase (deg)		37.4	+/- 3.5

	RMS	Theor.	Amplitude	0.639 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	18.9	8.3	Search (2048X32)	0.620	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	17.3	14.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	46.4	4.9	Inc. seg. avg.	0.658	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	32.1	8.5	Inc. frq. avg.	0.763	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

g: az 205.0 el 54.9 pa 7.2 k: az 54.2 el 68.5 pa -110.7 u,v (fr/asec) 3725.507 6237.604 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gk..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gk.W.169.1W5ADF

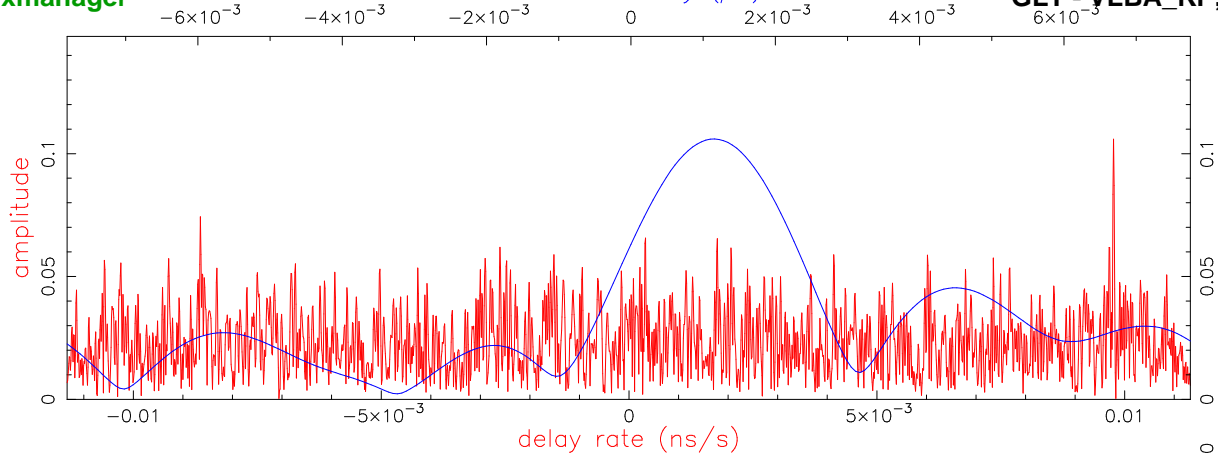
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gk

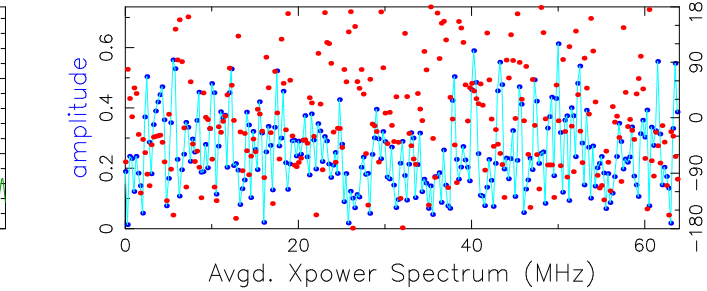
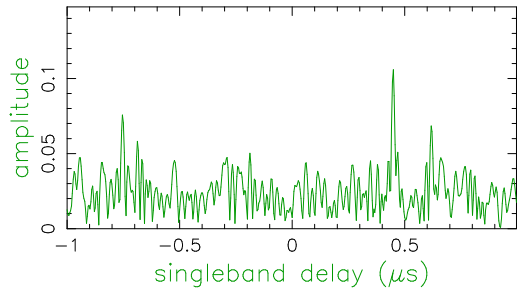
GLT - VLBA_KP, fgroup W, pol LR

multiband delay (μ s)



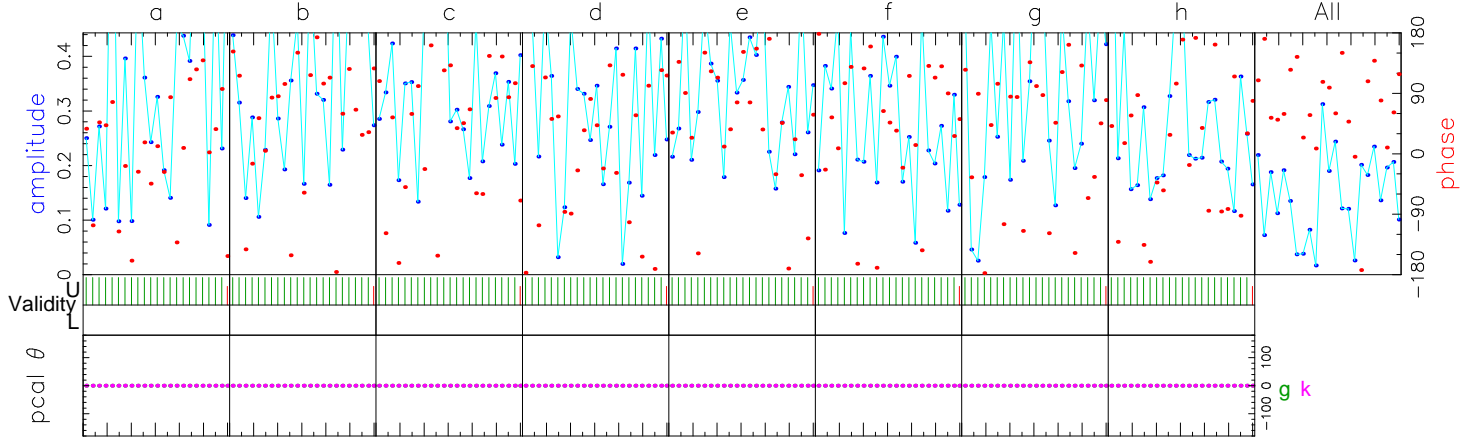
Fringe quality 0

SNR 5.5
Int time 359.916
Amp 0.148
Phase 90.4
PFD 1.0e+00
Delays (us)
SBD 0.448447
MBD 0.001111
Fringe rate (Hz)
0.843027
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 134500.00
Stop 135059.94
FRT 134800.00
Corr/FF/build
2021:286:102153
2021:286:135449
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
g	0	0	0	0	0	0	0	0	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-2.52427572419E+03								1.11118E-03	+/- 2.0E-04
Sband delay (usec)	-2.52428151287E+03								4.48447E-01	+/- 1.6E-03
Phase delay (usec)	-2.52472995745E+03								2.91649E-06	+/- 6.7E-07
Delay rate (us/s)	-4.68249016869E-01								9.78671E-06	+/- 3.2E-09
Total phase (deg)			-192.6						90.4	+/- 20.8
	RMS	Theor.	Amplitude	0.148 +/- 0.027					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	52.6	49.8	Search (2048X32)	0.105					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	81.9	86.8	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	28.9	29.3	Inc. seg. avg.	0.148					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	41.4	51.2	Inc. frq. avg.	0.138					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
g: az 205.0 el 54.9 pa 7.2			k: az 54.2 el 68.5 pa -110.7						nlags: 256	t_cohere infinite
Control file: cf_1234_gmva			Input file: /Exps/c211a/v2/1234/No0245/gk..1W5ADF							simultaneous interpolator
			Output file: /Exps/c211a/v2/1234/No0245/gk.W.183.1W5ADF							

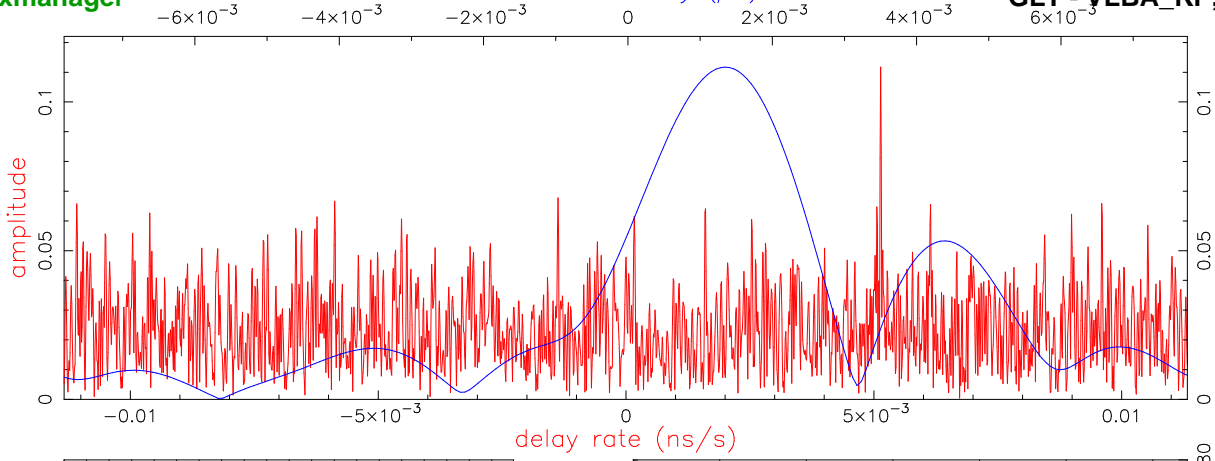
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gk

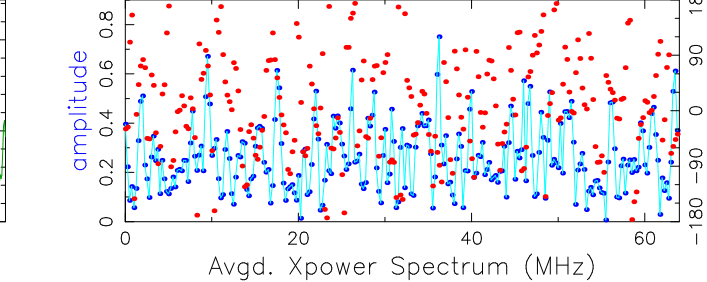
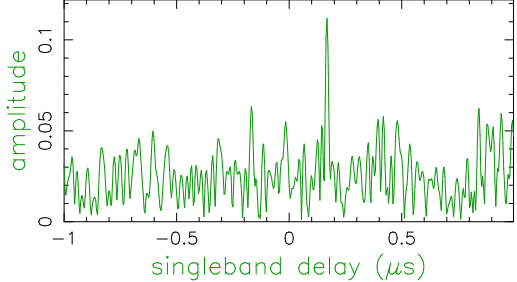
GLT - VLBA_KP, fgroup W, pol RL

multiband delay (μ s)



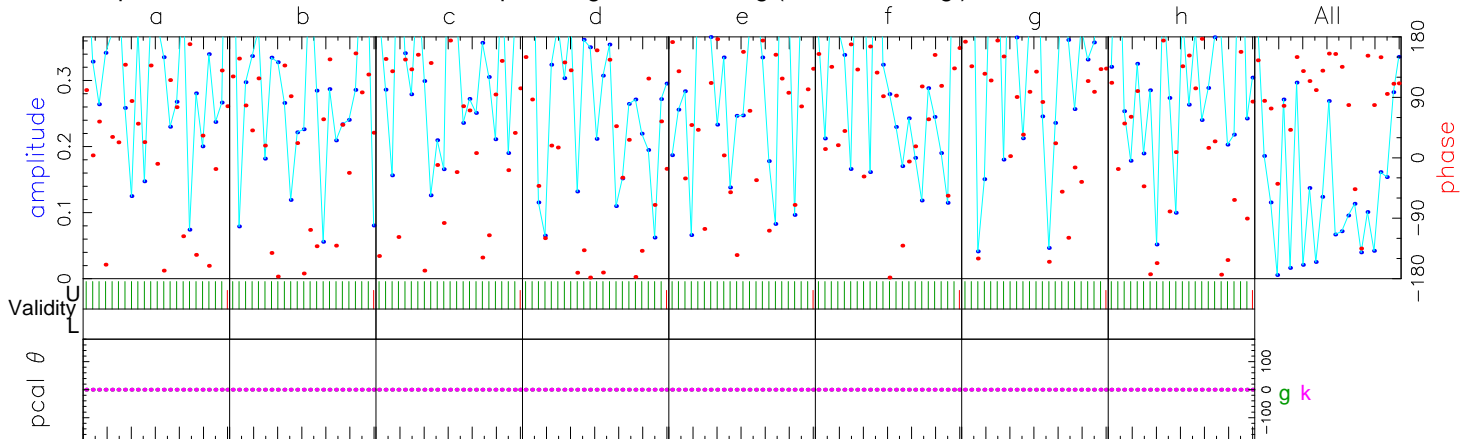
Fringe quality 0

SNR 5.8
 Int time 359.916
 Amp 0.122
 Phase 120.7
 PFD 7.9e-01
 Delays (us)
 SBD 0.167412
 MBD 0.001334
 Fringe rate (Hz)
 0.442773
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135453
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	83.9	129.5	158.6	132.5	107.2	114.4	115.5	129.8	Phase	120.7
	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	Ampl.	0.1
	95.4	483.0	406.0	432.3	423.1	498.6	298.8	235.6	Sbd box	299.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.52455675142E+03		Apriori delay (usec)		-2.52472996037E+03		Resid mbdelay (usec)		1.33395E-03	+/- 1.9E-04
Sband delay (usec)	-2.52456254837E+03		Apriori clock (usec)		1.1021996E-01		Resid sbdelay (usec)		1.67412E-01	+/- 1.5E-03
Phase delay (usec)	-2.52472995647E+03		Apriori clockrate (us/s)		5.9999999E-08		Resid phdelay (usec)		3.89363E-06	+/- 6.4E-07
Delay rate (us/s)	-4.68253663431E-01		Apriori rate (us/s)		-4.68258803581E-01		Resid rate (us/s)		5.14015E-06	+/- 3.1E-09
Total phase (deg)			Apriori accel (us/s/s)		4.71808590629E-05		Resid phase (deg)		120.7	+/- 19.7

ph/seg (deg) 61.9 47.3 Search (2048X32) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 99.5 82.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 23.6 27.9 Inc. seg. avg. 0.115 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 25.3 48.7 Inc. frq. avg. 0.115 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 g: az 205.0 el 54.9 pa 7.2 k: az 54.2 el 68.5 pa -110.7 u,v (fr/asec) 3725.507 6237.604 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gk..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gk.W.200.1W5ADF

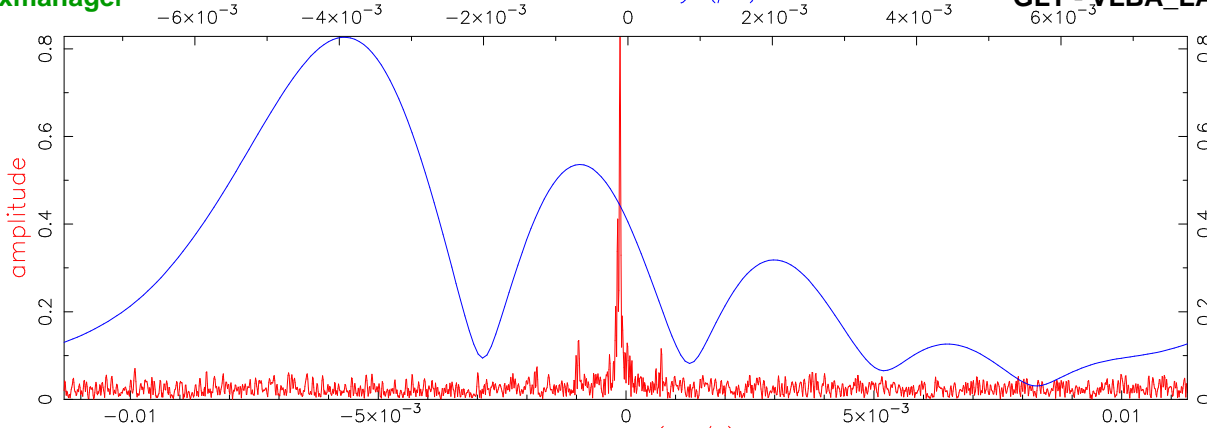
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

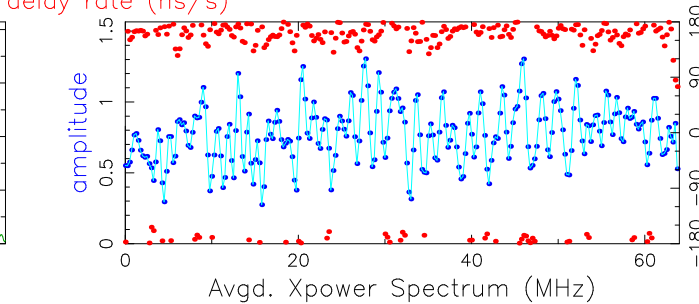
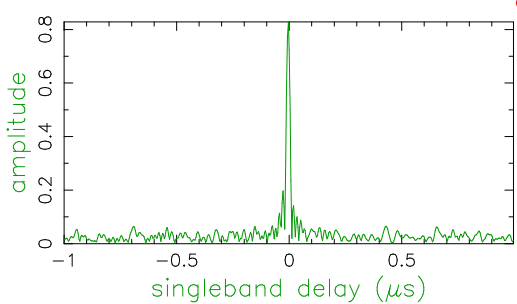
BLLAC.1W5ADF, No0245, gl

GLT - VLBA_LA, fgroup W, pol LL

multiband delay (μ s)

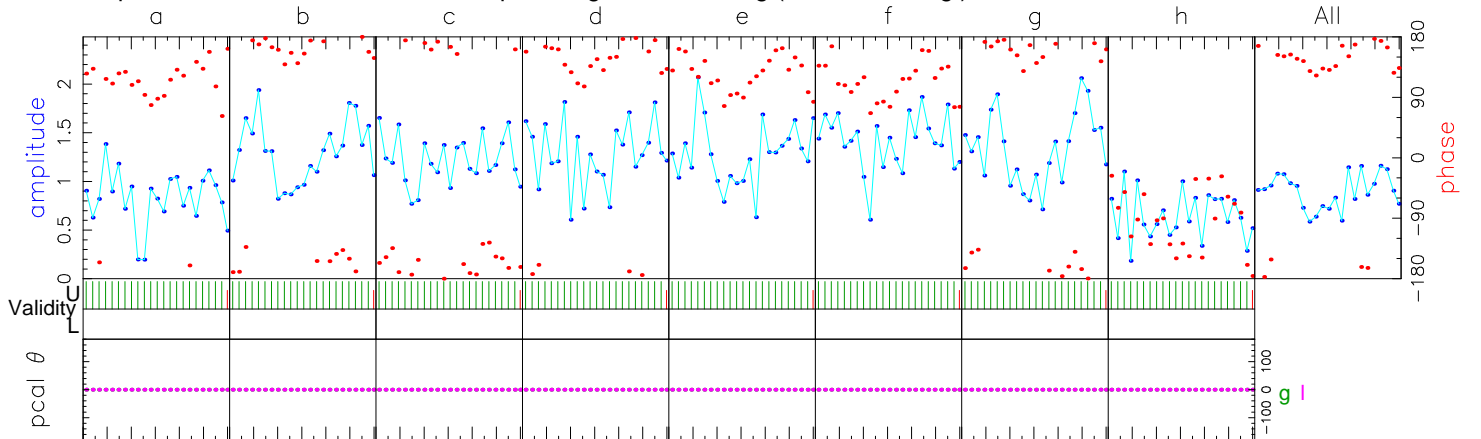


Fringe quality 4
 SNR 43.0
 Int time 359.915
 Amp 0.829
 Phase 159.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.004537
 MBD -0.003961
 Fringe rate (Hz)
 -0.010594
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135444
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
g	0	0	0	0	0	0	0	0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
g:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-3.18537250499E+03									
Sband delay (usec)	-3.18537308053E+03									
Phase delay (usec)	-3.18536853840E+03									
Delay rate (us/s)	-3.69965780990E-01									
Total phase (deg)			36.9							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										

ph/seg (deg) 24.0 6.4 Search (2048X32) 0.822 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 22.8 11.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 58.2 3.8 Inc. seg. avg. 0.894 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.9 6.6 Inc. frq. avg. 1.038 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 g: az 205.0 el 54.9 pa 7.2 l: az 59.5 el 74.4 pa -109.7 u,v (fr/asec) 2961.850 5837.150 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gl..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gl.W.161.1W5ADF

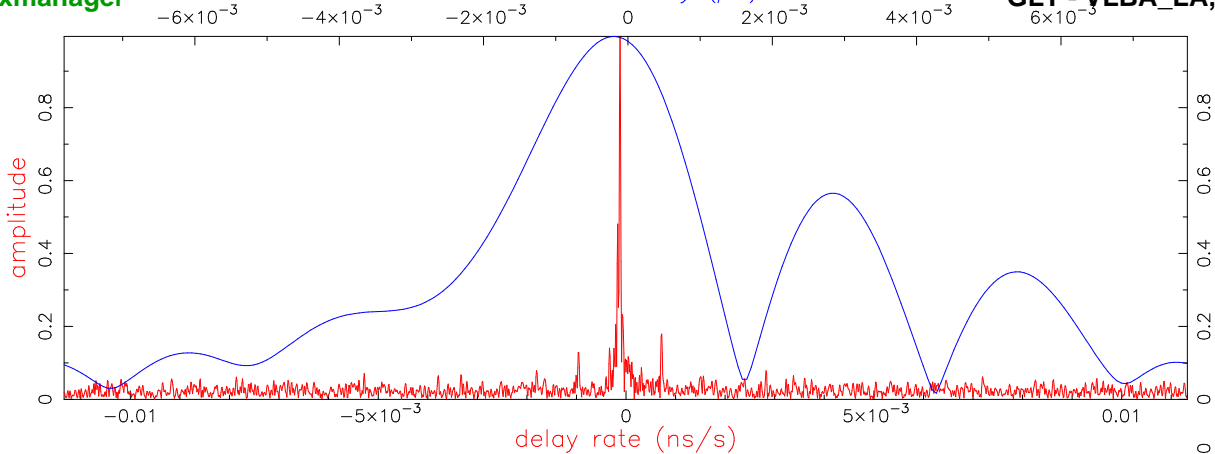
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gl

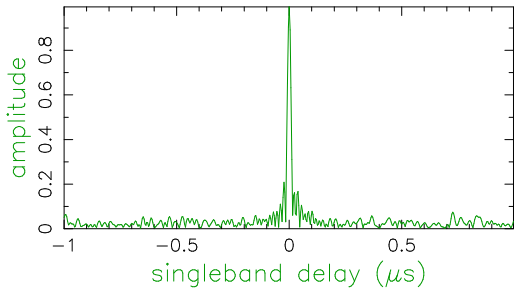
GLT - VLBA_LA, fgroup W, pol RR

multiband delay (μ s)

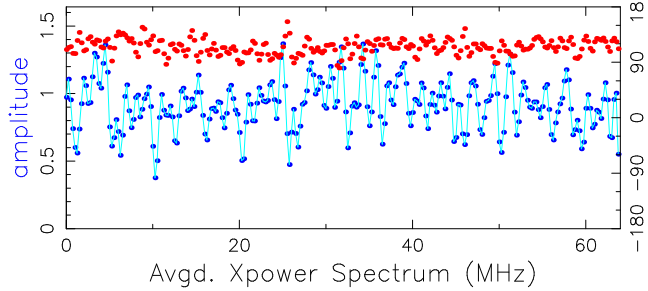


Fringe quality 4

SNR 51.6
 Int time 359.915
 Amp 0.995
 Phase 115.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.000140
 MBD -0.000202
 Fringe rate (Hz)
 -0.010667
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

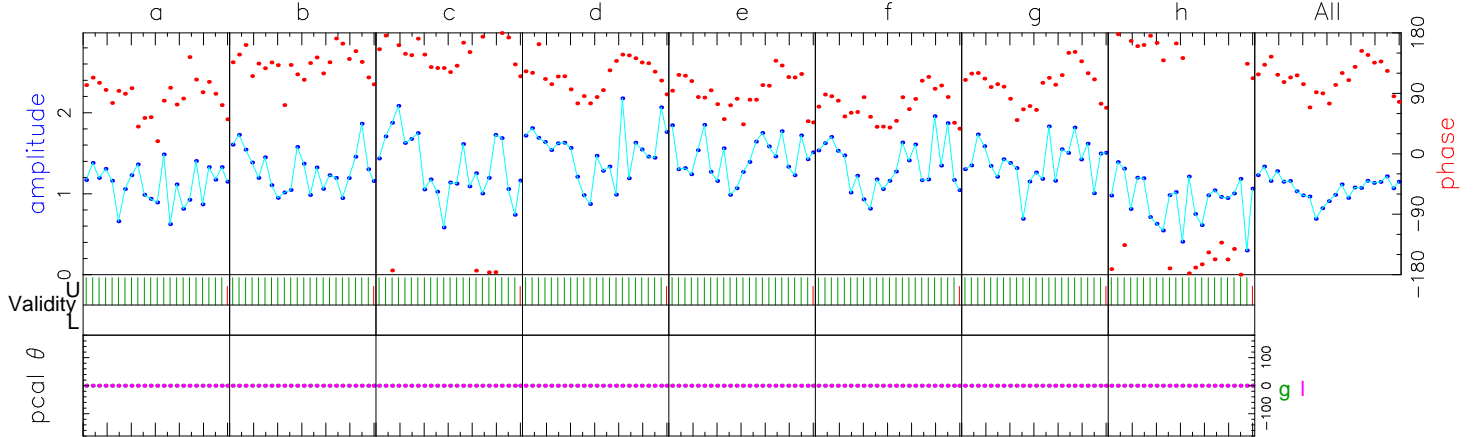


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135449
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
g	0	0	0	0	0	0	0	0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
g:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.18536874552E+03									
Sband delay (usec)	-3.18536868353E+03									
Phase delay (usec)	-3.18536853981E+03									
Delay rate (us/s)	-3.69965781831E-01									
Total phase (deg)			-6.9							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
Chan ids										
Tracks										
Chan ids										
Tracks										
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										

g: az 205.0 el 54.9 pa 7.2 l: az 59.5 el 74.4 pa -109.7 u,v (fr/asec) 2961.850 5837.150
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gl..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gl.W.177.1W5ADF

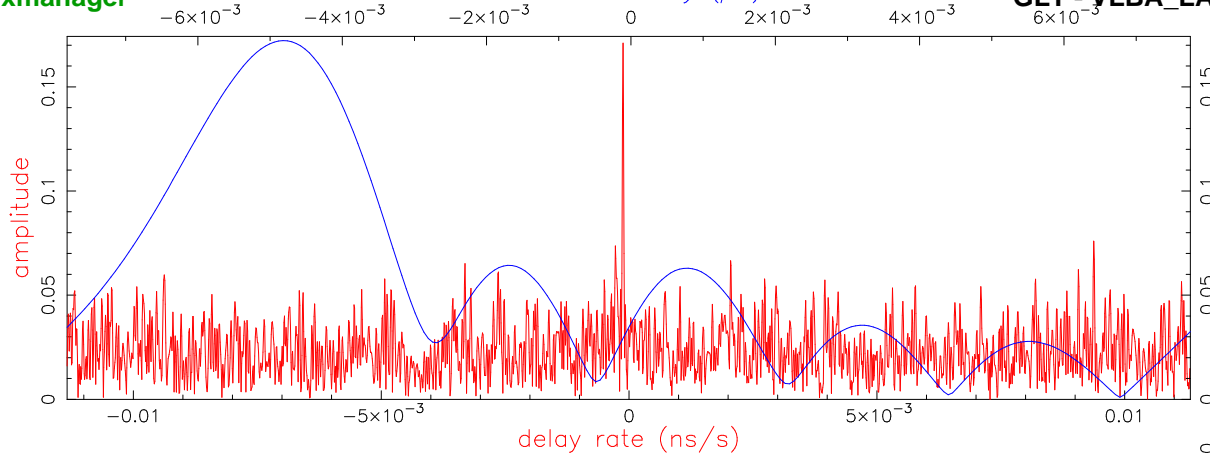
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gl

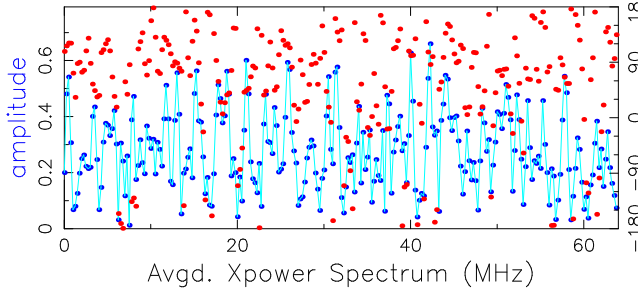
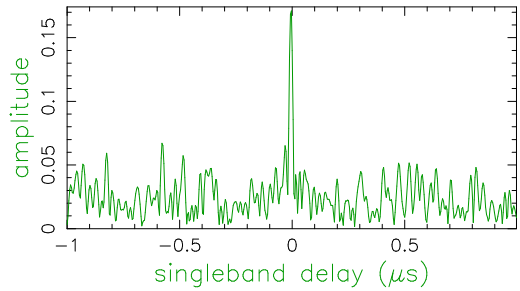
GLT - VLBA_LA, fgroup W, pol LR

multiband delay (μ s)



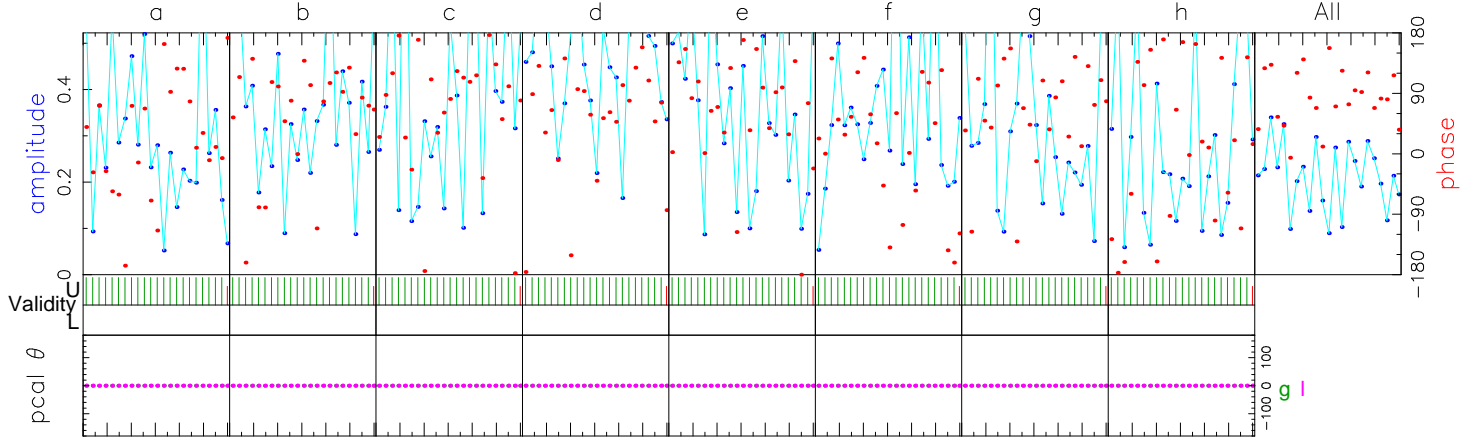
Fringe quality 9

SNR 9.0
 Int time 359.915
 Amp 0.174
 Phase 85.9
 PFD 6.2e-11
 Delays (us)
 SBD -0.005578
 MBD -0.004984
 Fringe rate (Hz)
 -0.010641
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135452
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
g	0	0	0	0	0	0	0	0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
g:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.18537352796E+03									
Sband delay (usec)	-3.18537412128E+03									
Phase delay (usec)	-3.18536854076E+03									
Delay rate (us/s)	-3.69965781526E-01									
Total phase (deg)			-36.5							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									85.9	+/- 12.7
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
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
PC period (AP's) 5, 5										
SampCntNorm: enabled										

ph/seg (deg) 41.5 30.4 Search (2048X32) 0.171 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 46.7 53.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 50.9 17.9 Inc. seg. avg. 0.187 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 36.2 31.3 Inc. frq. avg. 0.191 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 g: az 205.0 el 54.9 pa 7.2 l: az 59.5 el 74.4 pa -109.7 u,v (fr/asec) 2961.850 5837.150 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gl..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gl.W.196.1W5ADF

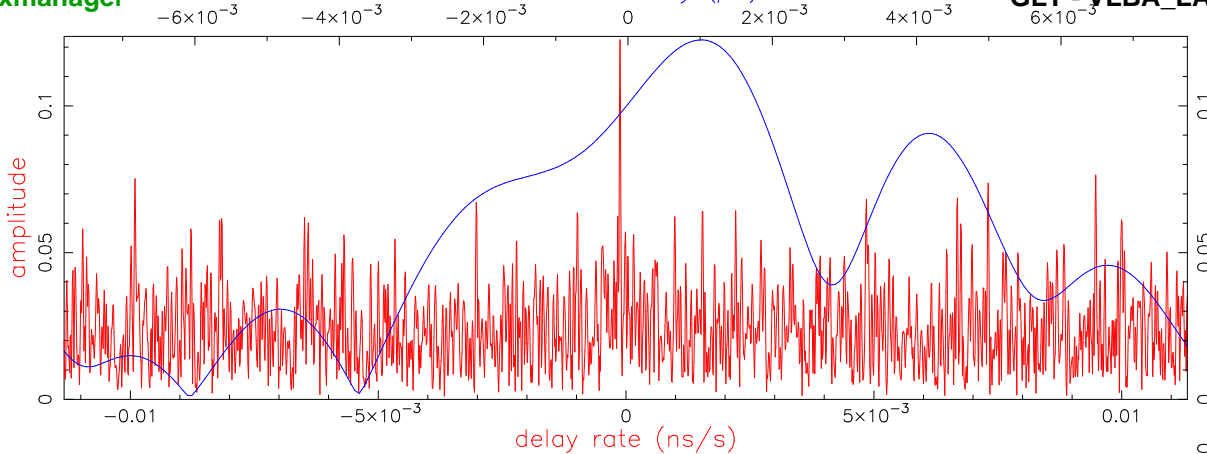
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gl

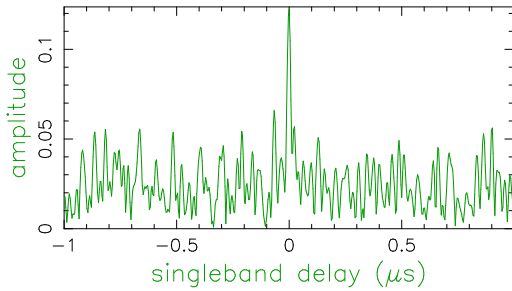
GLT - VLBA_LA, fgroup W, pol RL

multiband delay (μ s)

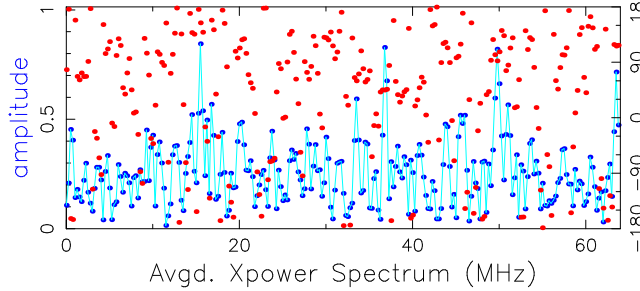


Fringe quality 0

SNR 6.4
 Int time 359.915
 Amp 0.124
 Phase 80.5
 PFD 3.8e-02
 Delays (us)
 SBD -0.001273
 MBD 0.000985
 Fringe rate (Hz)
 -0.010529
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

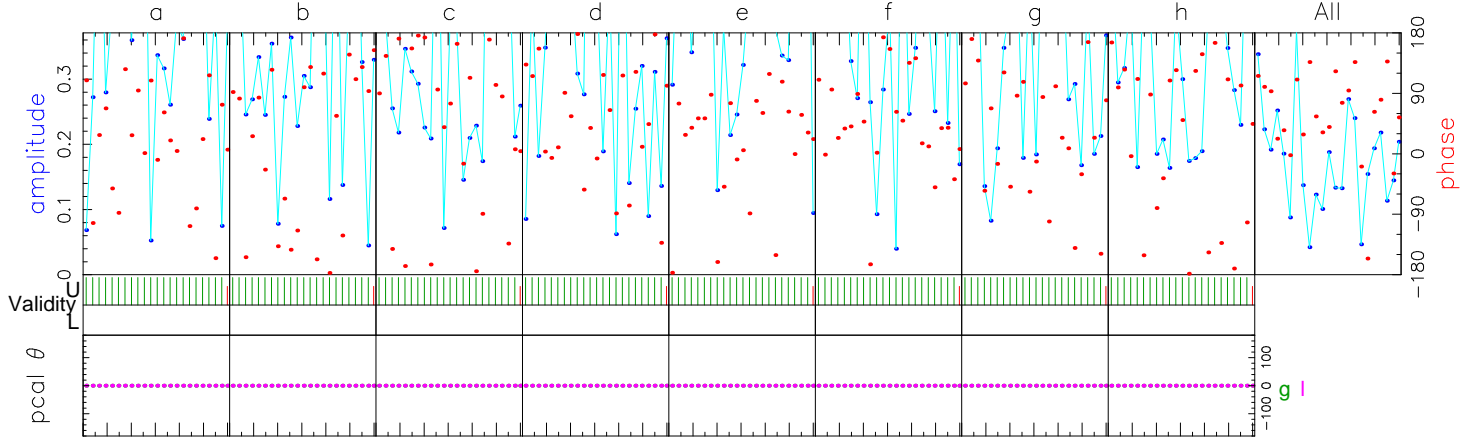


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135455
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
g	0	0	0	0	0	0	0	0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
g:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-3.18536755892E+03									
Sband delay (usec)	-3.18536981603E+03									
Phase delay (usec)	-3.18536854094E+03									
Delay rate (us/s)	-3.69965780227E-01									
Total phase (deg)			-41.9							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									80.5	+/- 17.9
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00	(us/s)							
Bits/sample:	2x2									
Sample rate(MISamp/s):	128									
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								

ph/seg (deg) 56.3 42.8
 amp/seg (%) 79.2 74.8
 ph/frq (deg) 54.8 25.3
 amp/frq (%) 59.9 44.1
 g: az 205.0 el 54.9 pa 7.2
 Control file: cf_1234_gmva

l: az 59.5 el 74.4 pa -109.7
 Input file: /Exps/c211a/v2/1234/No0245/gl..1W5ADF

u,v (fr/asec) 2961.850 5837.150
 Output file: /Exps/c211a/v2/1234/No0245/gl.W.217.1W5ADF

simultaneous interpolator

Mk4/DiFX fourfit 3.21 rev 2937

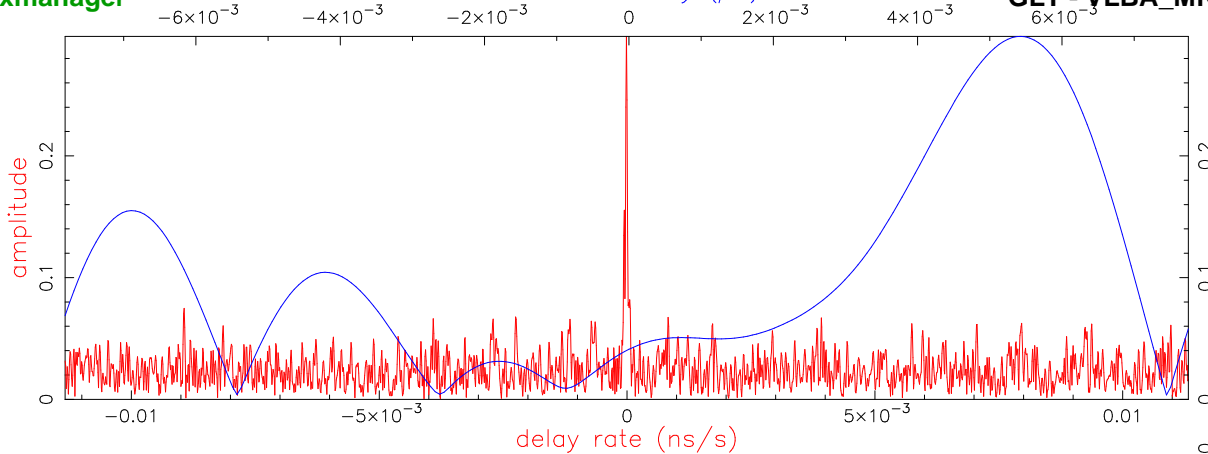
fxmanager

BLLAC.1W5ADF, No0245, gm

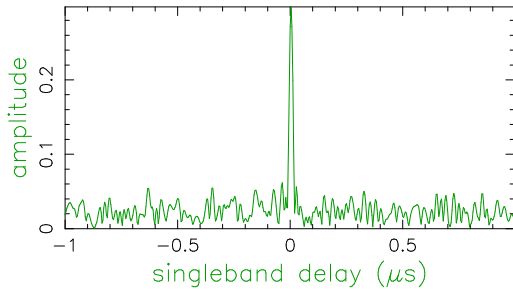
GLT - VLBA_MK, fgroup W, pol LL

multiband delay (μ s)

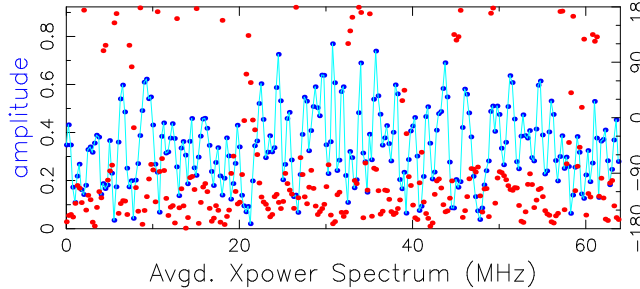
Fringe quality 7



SNR 15.5
 Int time 359.906
 Amp 0.298
 Phase -154.5
 PFD 4.2e-45
 Delays (us)
 SBD 0.003893
 MBD 0.005424
 Fringe rate (Hz)
 -0.001120
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

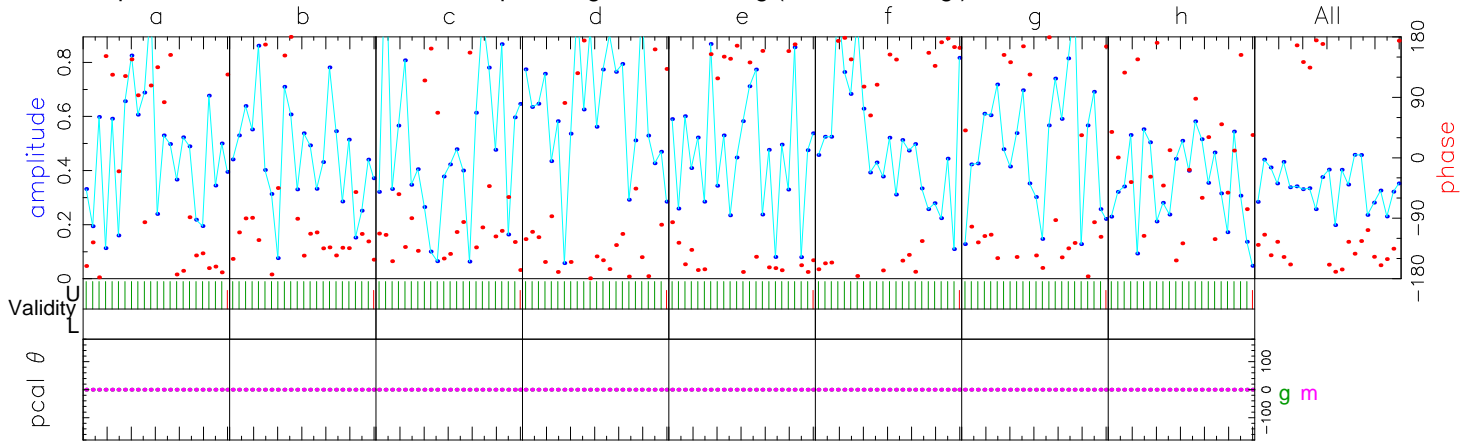


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135444
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
g	0	0	0	0	0	0	0	0		
m	1000	1000	1000	1000	1000	1000	1000	1000		
g:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	6.60293756299E+03	Apriori delay (usec)	6.60293213929E+03	Resid mbdelay (usec)	5.42370E-03	+/-	7.0E-05
Sband delay (usec)	6.60293603229E+03	Apriori clock (usec)	-1.5233751E+01	Resid sbdelay (usec)	3.89300E-03	+/-	5.6E-04
Phase delay (usec)	6.60293213431E+03	Apriori clockrate (us/s)	-2.5800000E-07	Resid phdelay (usec)	-4.98208E-06	+/-	2.4E-07
Delay rate (us/s)	-1.08274603348E+00	Apriori rate (us/s)	-1.08274602048E+00	Resid rate (us/s)	-1.30006E-08	+/-	1.1E-09
Total phase (deg)	17.8	Apriori accel (us/s/s)	1.30165501925E-05	Resid phase (deg)	-154.5	+/-	7.4

ph/seg (deg)	RMS 30.9	Theor. 17.8	Amplitude Search (2048X32)	0.298 +/- 0.019	0.296	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	28.7	31.0	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	57.2	10.5	Inc. seg. avg.	0.328	0.328	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	41.1	18.3	Inc. frq. avg.	0.347	0.347	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

g: az 205.0 el 54.9 pa 7.2 m: az 51.7 el 29.6 pa -89.2 u,v (fr/asec) 8423.146 4971.421 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gm..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gm.W.160.1W5ADF

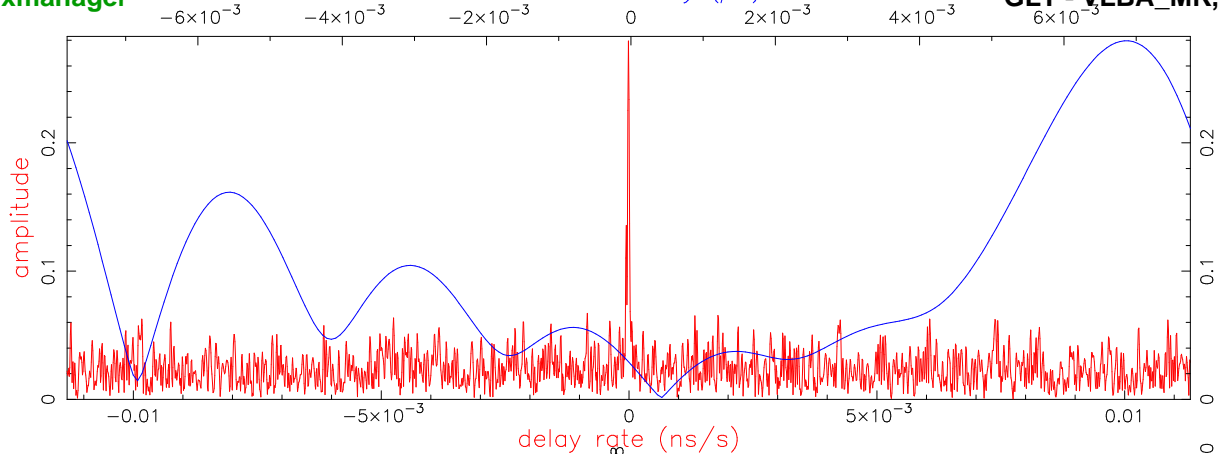
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gm

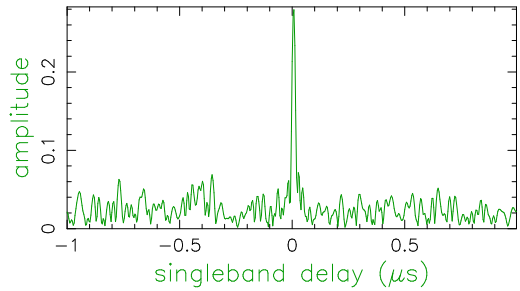
GLT - VLBA_MK, fgroup W, pol RR

multiband delay (μ s)

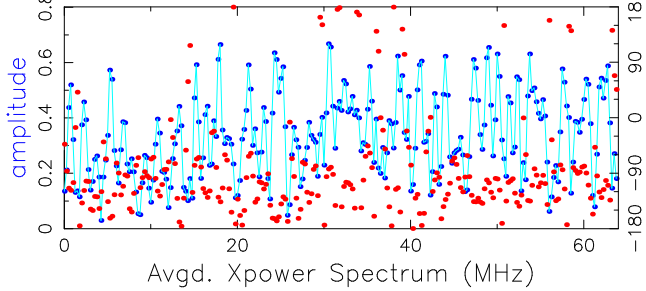


Fringe quality 8

SNR 14.7
 Int time 359.906
 Amp 0.283
 Phase -122.1
 PFD 5.1e-40
 Delays (us)
 SBD 0.006400
 MBD 0.006802
 Fringe rate (Hz)
 -0.001126
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

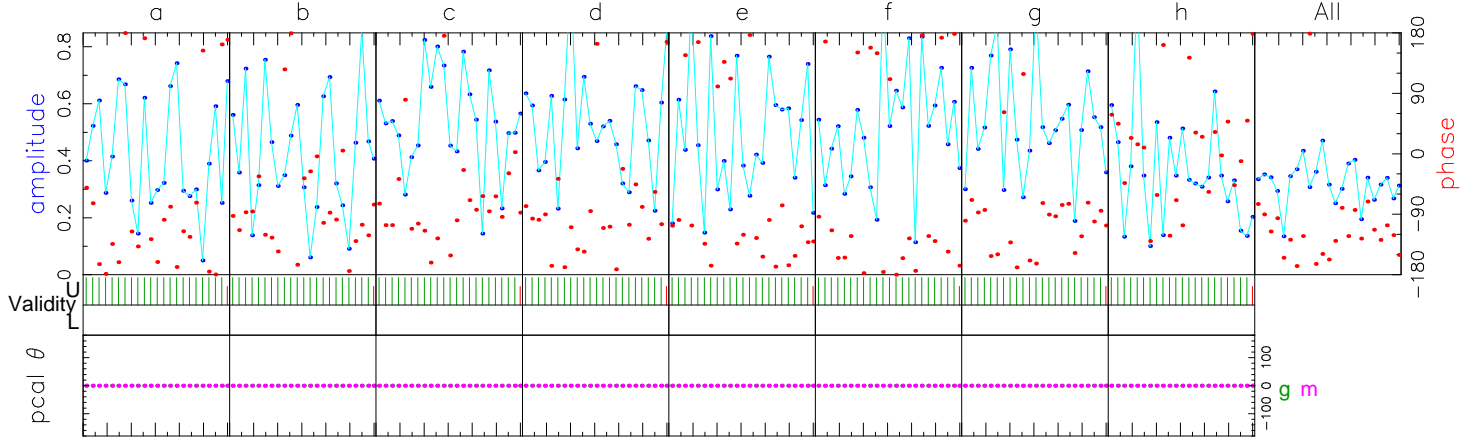


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135447
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-147.3	-108.2	-92.0	-113.9	-140.7	-164.3	-112.0	0.6	Phase	-122.1
	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.2	Ampl.	0.3
	260.1	258.7	258.1	258.5	258.2	258.6	259.0	261.3	Sbd box	258.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.60293894177E+03		Apriori delay (usec)	6.60293213929E+03	Resid mbdelay (usec)	6.80248E-03	+/-	7.4E-05		
Sband delay (usec)	6.60293853879E+03		Apriori clock (usec)	-1.5233751E+01	Resid sbdelay (usec)	6.39950E-03	+/-	5.9E-04		
Phase delay (usec)	6.60293213536E+03		Apriori clockrate (us/s)	-2.5800000E-07	Resid phdelay (usec)	-3.93627E-06	+/-	2.5E-07		
Delay rate (us/s)	-1.08274603355E+00		Apriori rate (us/s)	-1.08274602048E+00	Resid rate (us/s)	-1.30665E-08	+/-	1.2E-09		
Total phase (deg)		50.2	Apriori accel (us/s/s)	1.30165501925E-05	Resid phase (deg)	-122.1	+/-	7.8		

ph/seg (deg) 30.5 18.7 Search (2048X32) 0.278 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 29.2 32.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 56.4 11.0 Inc. seg. avg. 0.308 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 33.0 19.3 Inc. frq. avg. 0.336 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 g: az 205.0 el 54.9 pa 7.2 m: az 51.7 el 29.6 pa -89.2 u,v (fr/asec) 8423.146 4971.421 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gm..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gm.W.171.1W5ADF

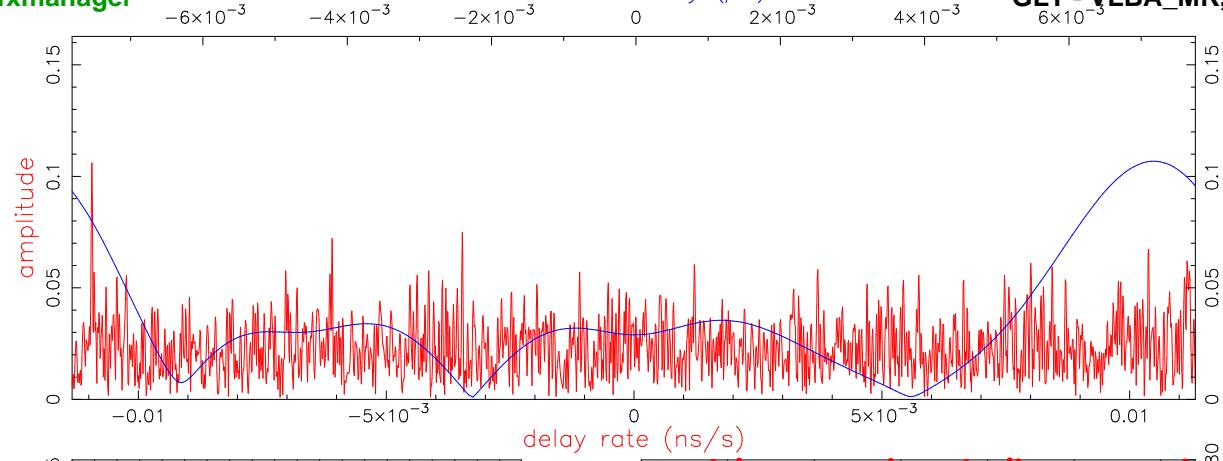
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

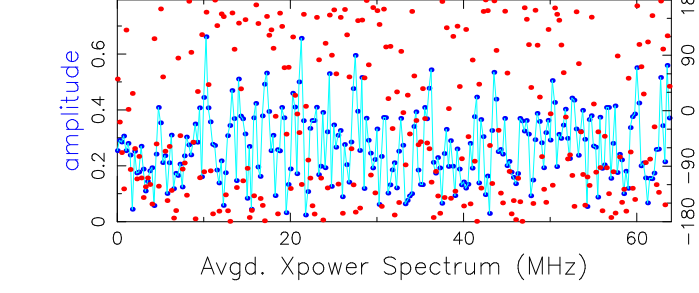
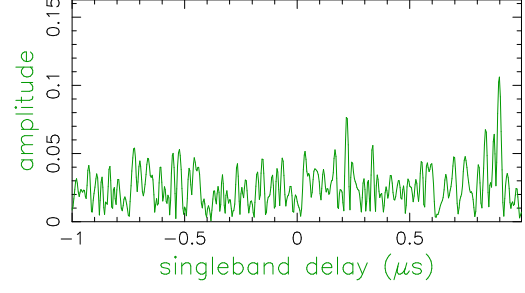
BLLAC.1W5ADF, No0245, gm

GLT - VLBA_MK, fgroup W, pol LR

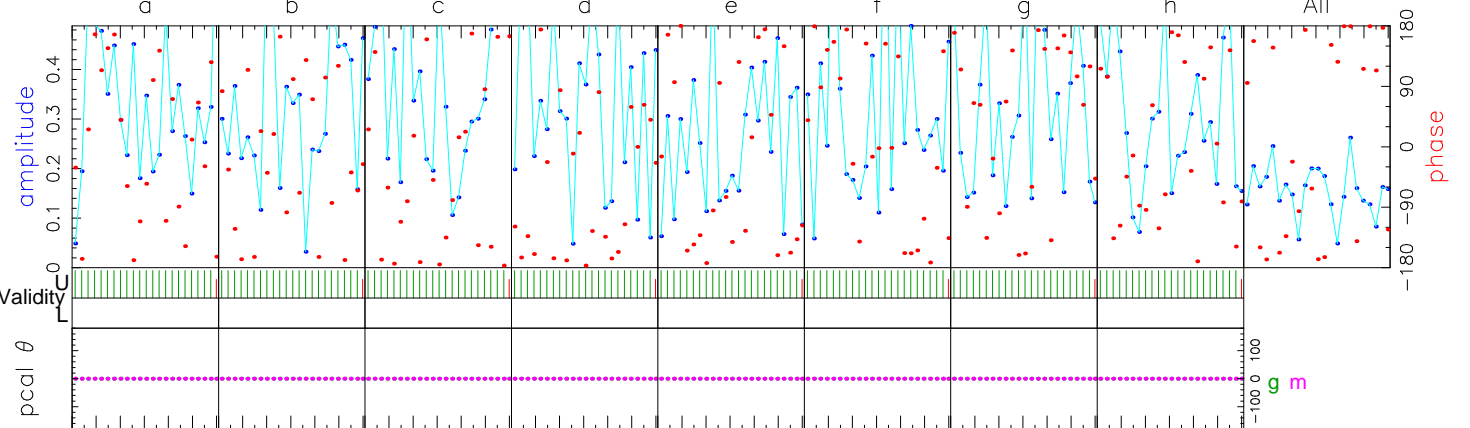
multiband delay (μ s)



Fringe quality 0
 SNR 5.6
 Int time 359.906
 Amp 0.163
 Phase -175.1
 PFD 1.0e+00
 Delays (us)
 SBD 0.897181
 MBD -0.008301
 Fringe rate (Hz)
 -0.944097
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135450
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	167.1	-69.7	-169.0	-165.4	-155.6	158.2	160.0	-154.0	Phase	-175.1
	0.1	0.1	0.3	0.2	0.2	0.2	0.3	0.1	Ampl.	0.2
	242.9	269.6	134.6	65.4	5.5	286.0	116.7	19.8	Sbd box	486.7
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.60383008851E+03		Apriori delay (usec)		6.60293213929E+03		Resid mbdelay (usec)		-8.30078E-03	+/- 2.0E-04
Sband delay (usec)	6.60382932004E+03		Apriori clock (usec)		-1.5233751E+01		Resid sbdelay (usec)		8.97181E-01	+/- 1.6E-03
Phase delay (usec)	6.60293213365E+03		Apriori clockrate (us/s)		-2.5800000E-07		Resid phdelay (usec)		-5.64548E-06	+/- 6.7E-07
Delay rate (us/s)	-1.08275698051E+00		Apriori rate (us/s)		-1.08274602048E+00		Resid rate (us/s)		-1.09600E-05	+/- 3.2E-09
Total phase (deg)			Apriori accel (us/s/s)		1.30165501925E-05		Resid phase (deg)		-175.1	+/- 20.6

ph/seg (deg) 56.8 49.5 Search (2048X32) 0.106 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 65.9 86.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 47.8 29.2 Inc. seg. avg. 0.173 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.3 50.9 Inc. frq. avg. 0.160 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 g: az 205.0 el 54.9 pa 7.2 m: az 51.7 el 29.6 pa -89.2 u,v (fr/asec) 8423.146 4971.421 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gm..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gm.W.190.1W5ADF

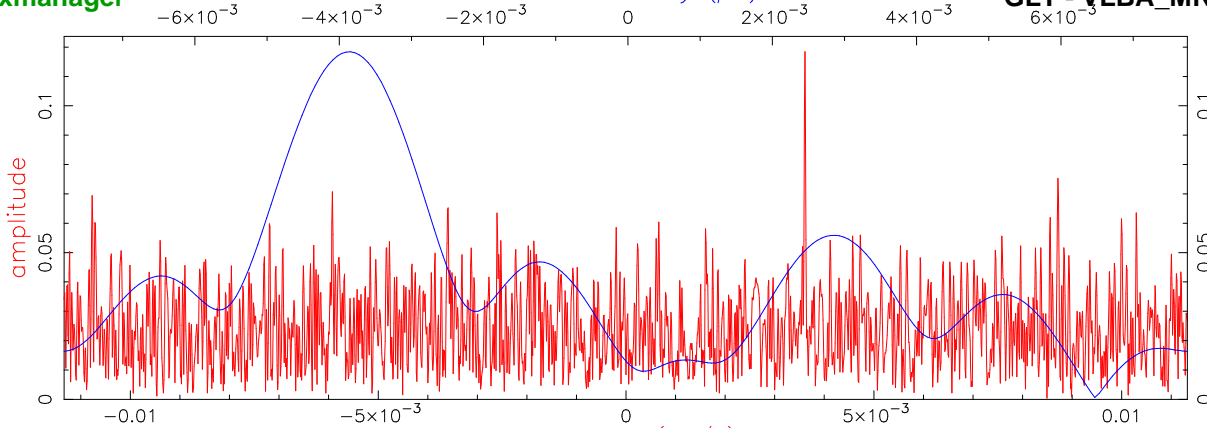
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gm

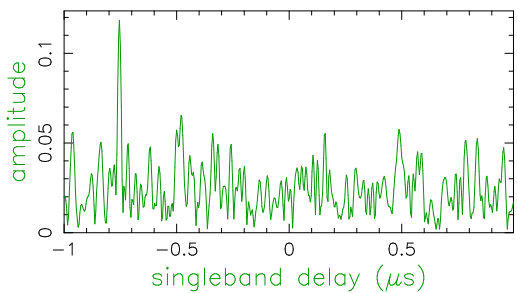
GLT - VLBA_MK, fgroup W, pol RL

multiband delay (μ s)

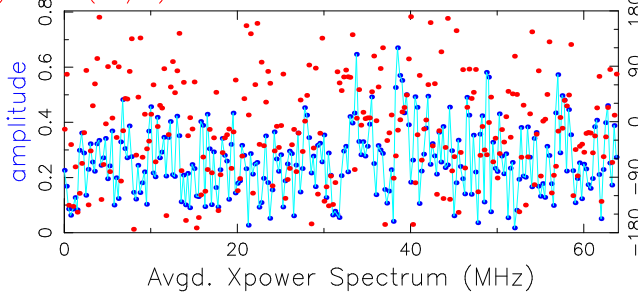


Fringe quality 0

SNR 6.1
 Int time 359.906
 Amp 0.124
 Phase -13.3
 PFD 1.9e-01
 Delays (us)
 SBD -0.754324
 MBD -0.003875
 Fringe rate (Hz)
 0.311712
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

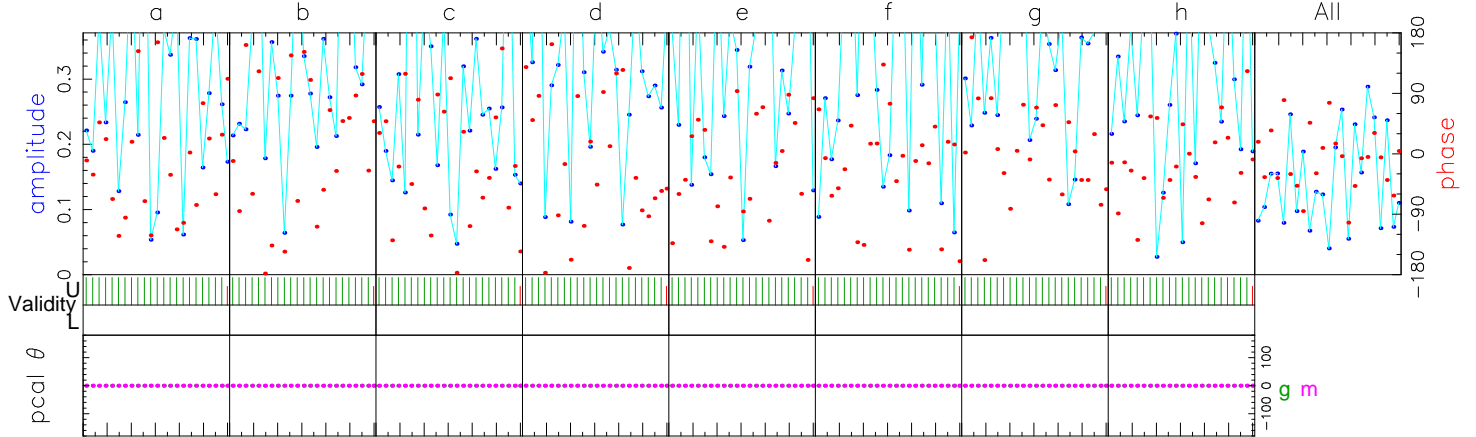


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135454
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-29.2	58.5	-37.0	16.3	-33.9	-8.3	-2.0	-21.1	Phase	-13.3
	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	Ampl.	0.1
	359.6	145.0	207.5	443.9	361.7	64.1	63.9	496.1	Sbd box	63.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.60217826424E+03		Apriori delay (usec)		6.60293213929E+03		Resid mbdelay (usec)		-3.87506E-03	+/- 1.8E-04
Sband delay (usec)	6.60217781479E+03		Apriori clock (usec)		-1.5233751E+01		Resid sbdelay (usec)		-7.54324E-01	+/- 1.4E-03
Phase delay (usec)	6.60293213886E+03		Apriori clockrate (us/s)		-2.5800000E-07		Resid phdelay (usec)		-4.29483E-07	+/- 6.0E-07
Delay rate (us/s)	-1.08274240182E+00		Apriori rate (us/s)		-1.08274602048E+00		Resid rate (us/s)		3.61866E-06	+/- 2.9E-09
Total phase (deg)	159.0		Apriori accel (us/s/s)		1.30165501925E-05		Resid phase (deg)		-13.3	+/- 18.6

ph/seg (deg) 45.6 44.7 Search (2048X32) 0.117 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 66.4 78.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 35.3 26.4 Inc. seg. avg. 0.118 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.1 46.0 Inc. frq. avg. 0.122 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 g: az 205.0 el 54.9 pa 7.2 m: az 51.7 el 29.6 pa -89.2 u,v (fr/asec) 8423.146 4971.421 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gm..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gm.W.209.1W5ADF

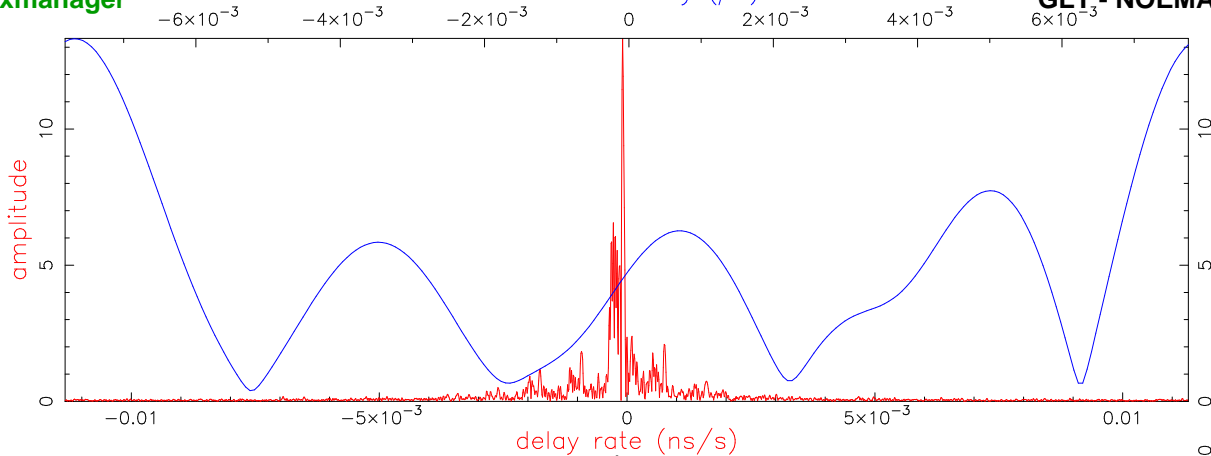
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gN

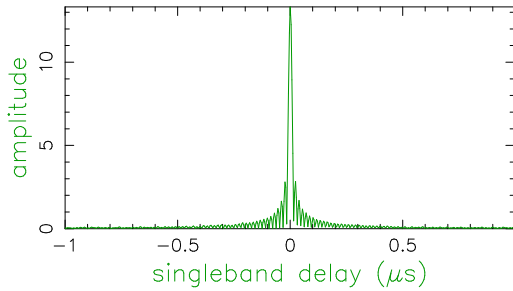
GLT - NOEMA, fgroup W, pol LL

multiband delay (μ s)

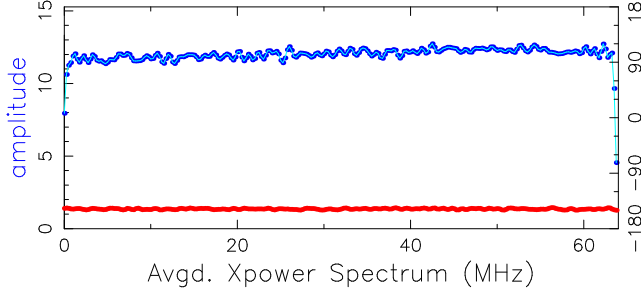


Fringe quality 2

SNR 691.3
 Int time 359.918
 Amp 13.326
 Phase -55.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.000373
 MBD -0.007677
 Fringe rate (Hz)
 -0.007372
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

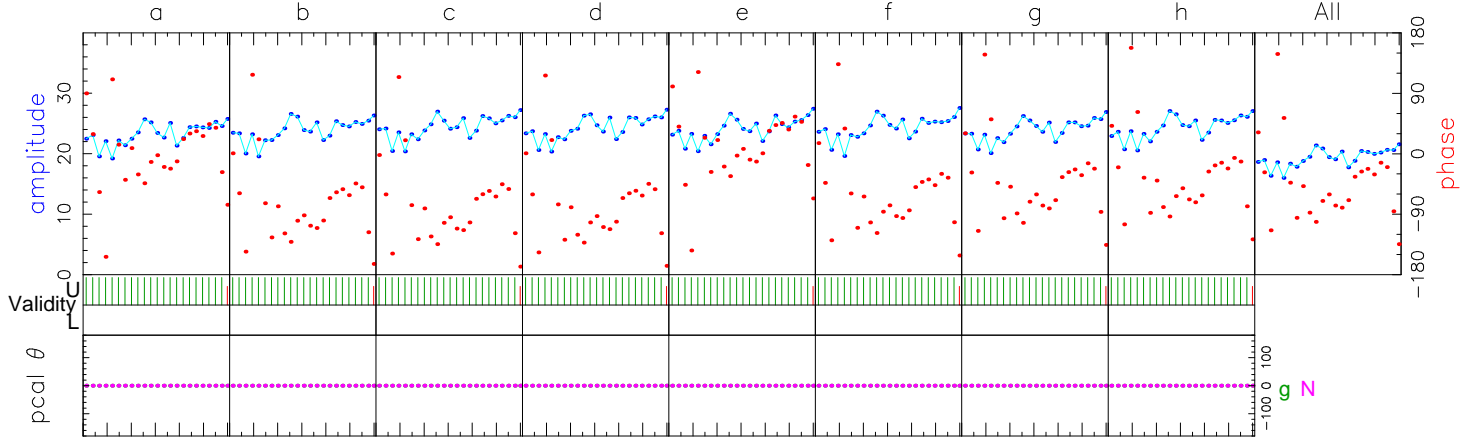


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135445
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	2.0	-85.9	-88.2	-87.3	12.8	-71.3	-56.1	-47.4	Phase	-55.3
	16.1	16.5	16.7	16.7	16.6	16.8	16.5	16.7	Ampl.	16.6
	257.0	257.0	257.1	257.1	257.1	257.1	257.2	257.1	Sbd box	257.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N g	0	0	0	0	0	0	0	0	PC freqs	
g:N	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N g	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	8.26896055090E+03	Apriori delay (usec)	8.26895260306E+03	Resid mbdelay (usec)	-7.67716E-03	+/-	1.6E-06
Sband delay (usec)	8.26895297631E+03	Apriori clock (usec)	1.3645765E+01	Resid sbdelay (usec)	3.73250E-04	+/-	1.2E-05
Phase delay (usec)	8.26895260128E+03	Apriori clockrate (us/s)	-9.1940006E-06	Resid phdelay (usec)	-1.78285E-06	+/-	5.3E-09
Delay rate (us/s)	7.21801385397E-01	Apriori rate (us/s)	7.21801470974E-01	Resid rate (us/s)	-8.55775E-08	+/-	2.6E-11
Total phase (deg)	26.6	Apriori accel (us/s/s)	-2.33276132393E-05	Resid phase (deg)	-55.3	+/-	0.2

ph/seg (deg)	53.8	RMS	53.8	Theor.	0.4	Amplitude	13.326 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	46.0		46.0		0.7	Search (2048X32)	13.015	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	43.4		43.4		0.2	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	24.5		24.5		0.4	Inc. seg. avg.	19.292	Sample rate(MISamp/s):	128	dr window (ns/s)	-0.011 0.011	
g: az 205.0 el 54.9 pa 7.2						Inc. frq. avg.	16.581	Data rate(Mb/s):	2048	ion window (TEC)	0.00 0.00	
N: az 304.9 el 26.0 pa 55.2								nlags:	256	t_cohere	infinite	
u,v (fr/asec)											simultaneous interpolator	

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gN..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gN.W.162.1W5ADF

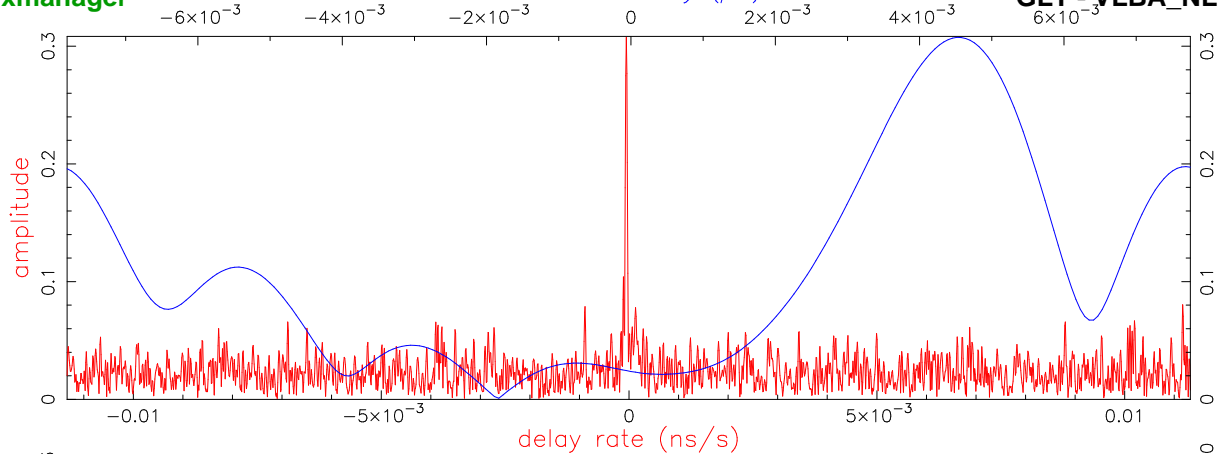
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gn

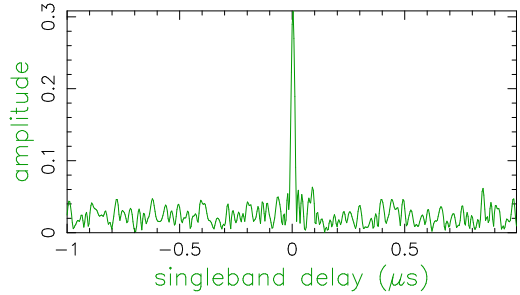
GLT - VLBA_NL, fgroup W, pol LL

multiband delay (μ s)

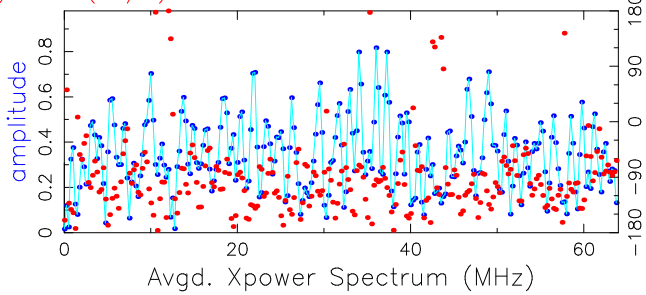


Fringe quality 8

SNR 16.0
 Int time 359.915
 Amp 0.308
 Phase -119.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.003211
 MBD 0.004509
 Fringe rate (Hz)
 -0.004769
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

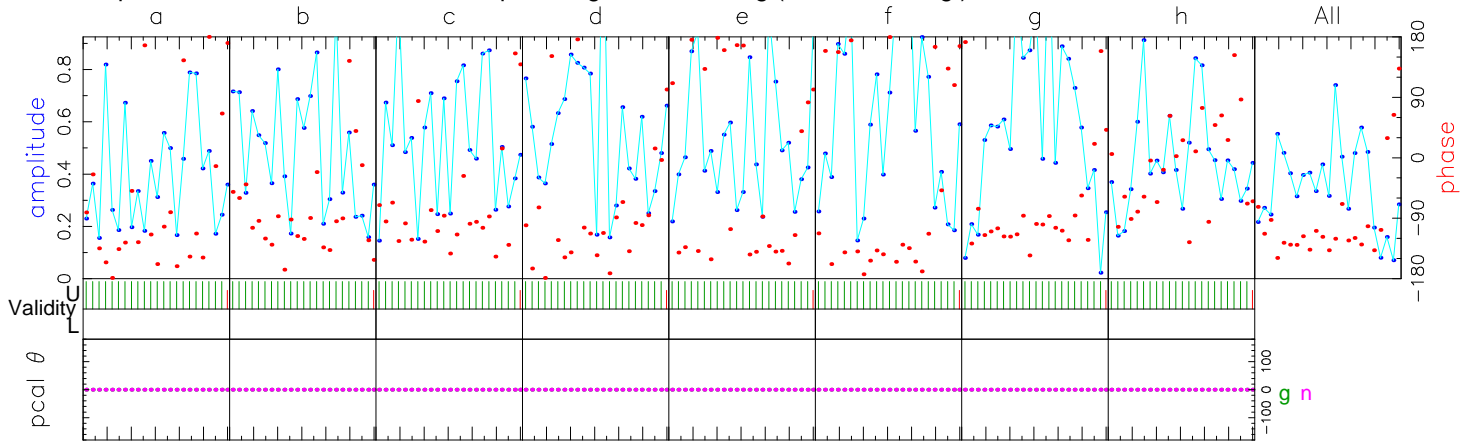


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135445
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
g	0	0	0	0	0	0	0	0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
g:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-3.89410180624E+03									
Sband delay (usec)	-3.89410310438E+03									
Phase delay (usec)	-3.89410631899E+03									
Delay rate (us/s)	-1.32289730841E-01									
Total phase (deg)			-114.5							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
RMS	55.3	17.2								
Theor.										
Amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
0.308 +/- 0.019										
0.305										
-2.400000E-07										
-1.32289675473E-01										
4.40407613235E-05										
4.50889E-03										
3.21075E-03										
-3.86359E-06										
-5.53681E-08										
-119.8										
+/- 6.8E-05										
+/- 5.4E-04										
+/- 2.3E-07										
+/- 1.1E-09										
+/- 7.2										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
-1.000 1.000										
-0.008 0.008										
-0.011 0.011										
0.00 0.00										
g: az 205.0 el 54.9 pa 7.2										
n: az 76.3 el 87.2 pa -102.2										
u,v (fr/asec) 1114.159 5152.262										
Control file: cf_1234_gmva										
Input file: /Exps/c211a/v2/1234/No0245/gn..1W5ADF										
Output file: /Exps/c211a/v2/1234/No0245/gn.W.163.1W5ADF										

simultaneous interpolator

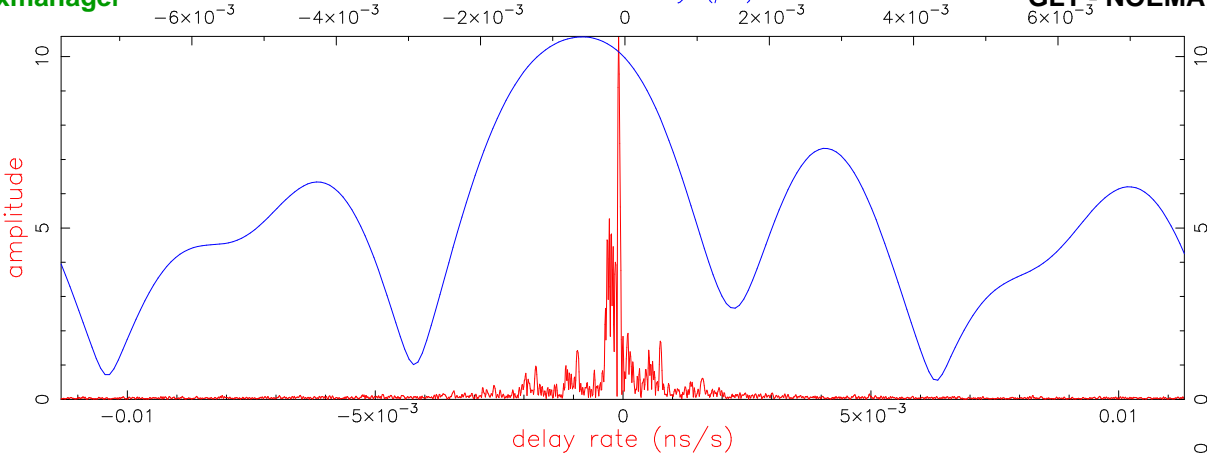
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gN

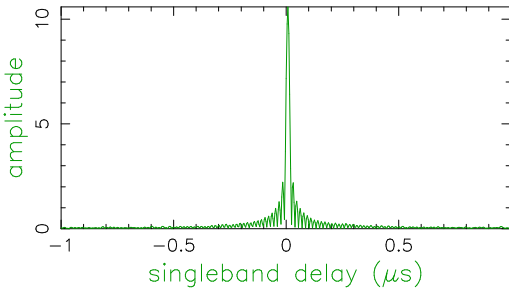
GLT - NOEMA, fgroup W, pol RR

multiband delay (μ s)

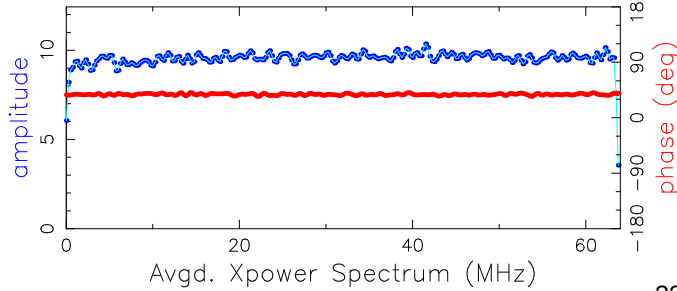


Fringe quality 1

SNR 549.4
 Int time 359.918
 Amp 10.590
 Phase 129.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.007373
 MBD -0.000600
 Fringe rate (Hz)
 -0.007398
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

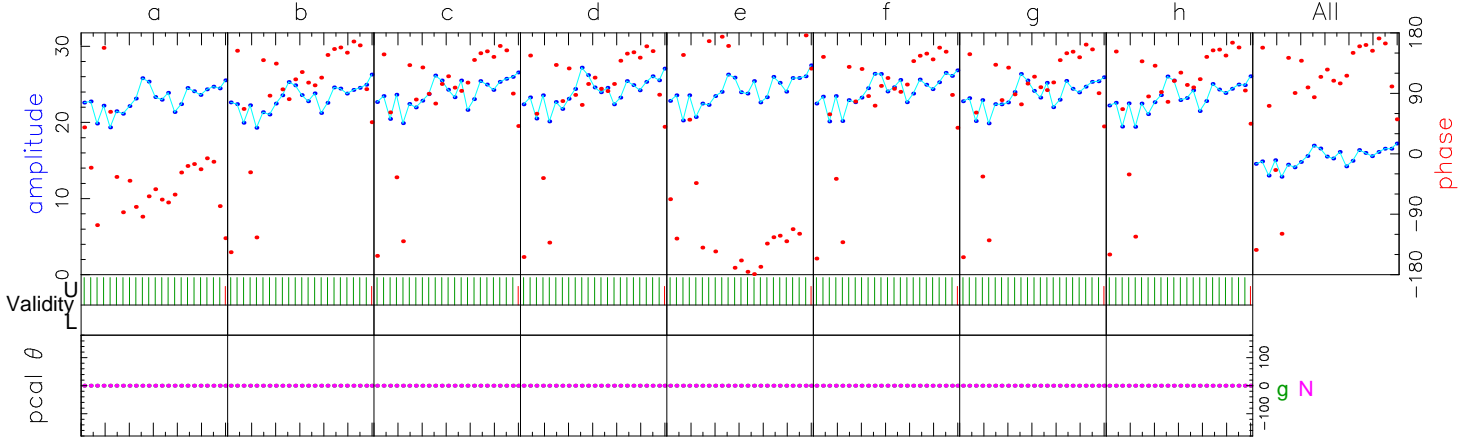


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135448
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-47.6	126.3	119.6	118.2	-153.8	116.8	119.6	123.7	Phase	129.7
	15.9	16.0	16.4	16.5	16.6	16.7	16.3	16.1	Ampl.	16.3
	258.7	258.9	258.8	258.8	258.9	258.8	258.9	258.9	Sbd box	258.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
g:N	0	0	0	0	0	0	0	0	PC freqs	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N	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	
N	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	8.26896762817E+03		Apriori delay (usec)		8.26895260306E+03		Resid mbdelay (usec)		-5.99889E-04	+/- 2.0E-06
Sband delay (usec)	8.26895997606E+03		Apriori clock (usec)		1.3645765E+01		Resid sbdelay (usec)		7.37300E-03	+/- 1.6E-05
Phase delay (usec)	8.26895260724E+03		Apriori clockrate (us/s)		-9.1940006E-06		Resid phdelay (usec)		4.18115E-06	+/- 6.7E-09
Delay rate (us/s)	7.21801385091E-01		Apriori rate (us/s)		7.21801470974E-01		Resid rate (us/s)		-8.58836E-08	+/- 3.2E-11
Total phase (deg)	211.5		Apriori accel (us/s/s)		-2.33276132393E-05		Resid phase (deg)		129.7	+/- 0.2

ph/seg (deg) 53.6 0.5
 amp/seg (%) 46.1 0.9
 ph/frq (deg) 79.4 0.3
 amp/frq (%) 54.1 0.5

RMS Theor. Amplitude 10.590 +/- 0.019
 Search (2048X32) 10.451
 Interp. 0.000
 Inc. seg. avg. 15.337
 Inc. frq. avg. 16.312

g: az 205.0 el 54.9 pa 7.2
 N: az 304.9 el 26.0 pa 55.2
 u,v (fr/asec) -5637.545 173.274

Control file: cf_1234_gmva
 Input file: /Exps/c211a/v2/1234/No0245/gN..1W5ADF
 Output file: /Exps/c211a/v2/1234/No0245/gN.W.172.1W5ADF

simultaneous interpolator

Mk4/DiFX fourfit 3.21 rev 2937

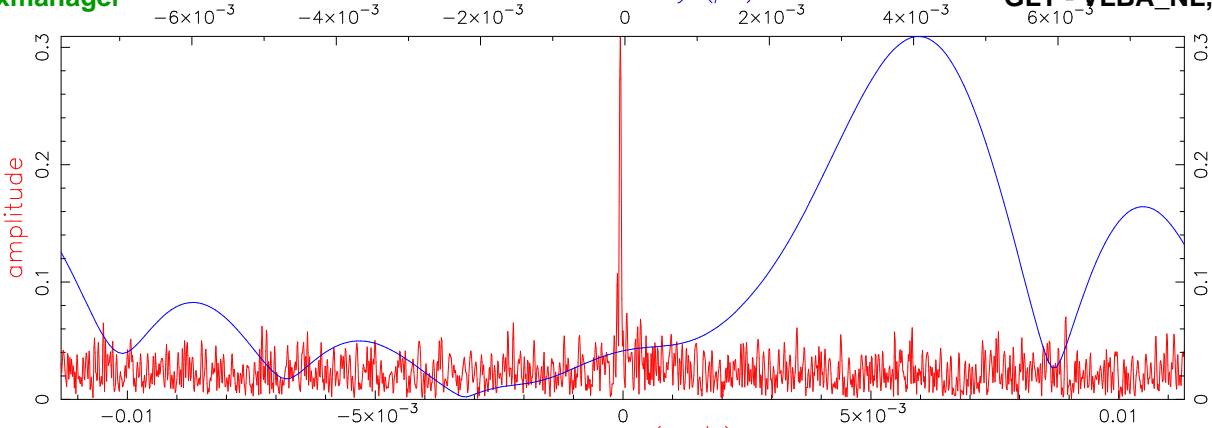
fxmanager

BLLAC.1W5ADF, No0245, gn

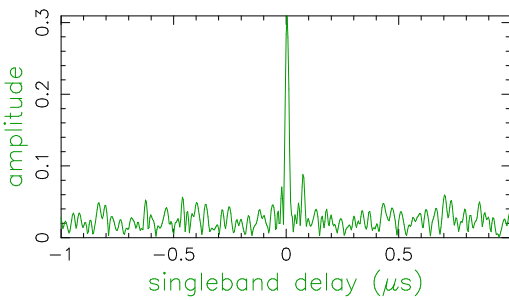
GLT - VLBA_NL, fgroup W, pol RR

multiband delay (μ s)

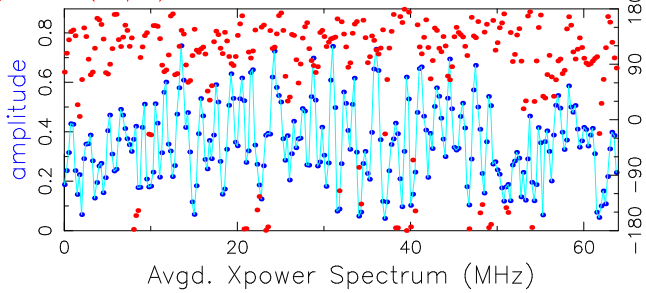
Fringe quality 8



SNR 16.0
Int time 359.914
Amp 0.309
Phase 121.5
PFD 0.0e+00
Delays (us)
SBD 0.003723
MBD 0.004060
Fringe rate (Hz)
-0.004677
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

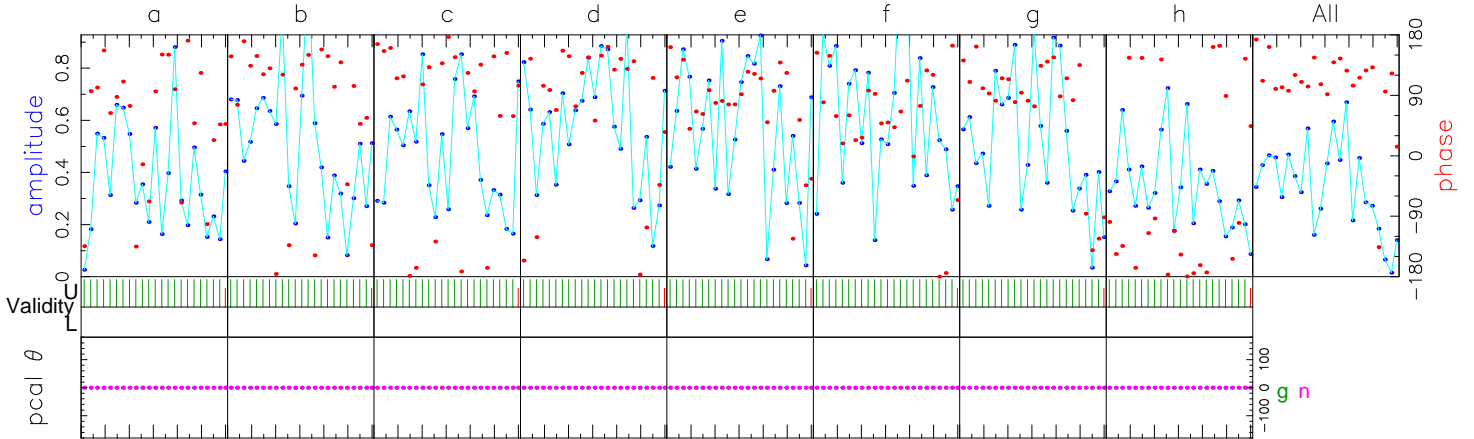


delay rate (ns/s)



Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 134500.00
Stop 135059.94
FRT 134800.00
Corr/FF/build
2021:286:102153
2021:286:135449
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
g	0	0	0	0	0	0	0	0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
g:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.89410225508E+03								4.06005E-03	+/- 6.8E-05
Sband delay (usec)	-3.89410259213E+03								3.72300E-03	+/- 5.4E-04
Phase delay (usec)	-3.89410631121E+03								3.91891E-06	+/- 2.3E-07
Delay rate (us/s)	-1.32289729763E-01								-5.42904E-08	+/- 1.1E-09
Total phase (deg)			-233.1						121.5	+/- 7.1
Apriori delay (usec)					-3.89410631513E+03					
Apriori clock (usec)					-4.9898834E+00					
Apriori clockrate (us/s)					-2.4000000E-07					
Apriori rate (us/s)					-1.32289675473E-01					
Apriori accel (us/s/s)					4.40407613235E-05					
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode:	MANUAL				MANUAL					
Pcal rate:	0.000E+00				0.000E+00					
Bits/sample:	2x2									
Sample rate (MSamp/s):	128									
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								

ph/seg (deg) 35.4 17.1 Search (2048X32) 0.306 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 54.5 29.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 37.9 10.1 Inc. seg. avg. 0.334 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 27.1 17.6 Inc. frq. avg. 0.352 Sample rate (MSamp/s): 128 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 g: az 205.0 el 54.9 pa 7.2 n: az 76.3 el 87.2 pa -102.2 u,v (fr/asec) 1114.159 5152.262 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/c211a/v2/1234/No0245/gn..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gn.W.176.1W5ADF simultaneous interpolator

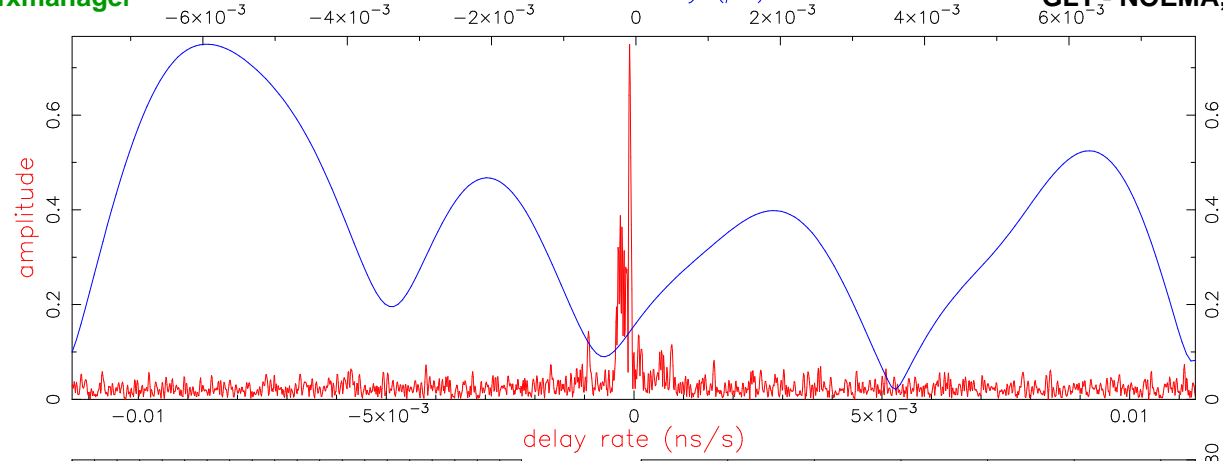
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gN

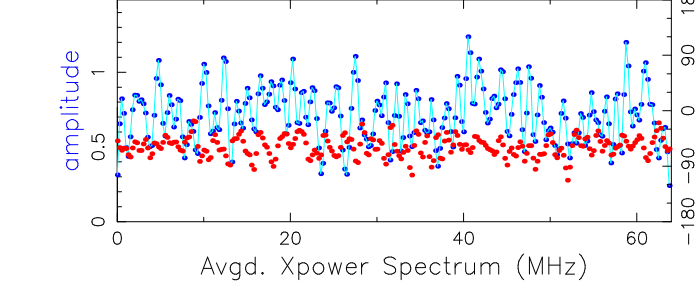
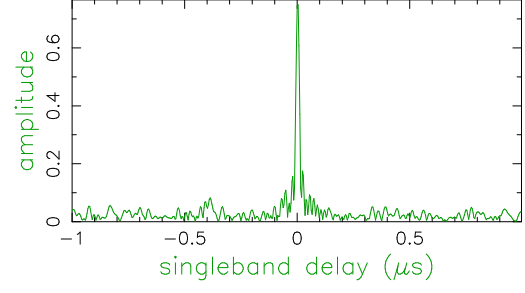
GLT - NOEMA, fgroup W, pol LR

multiband delay (μ s)



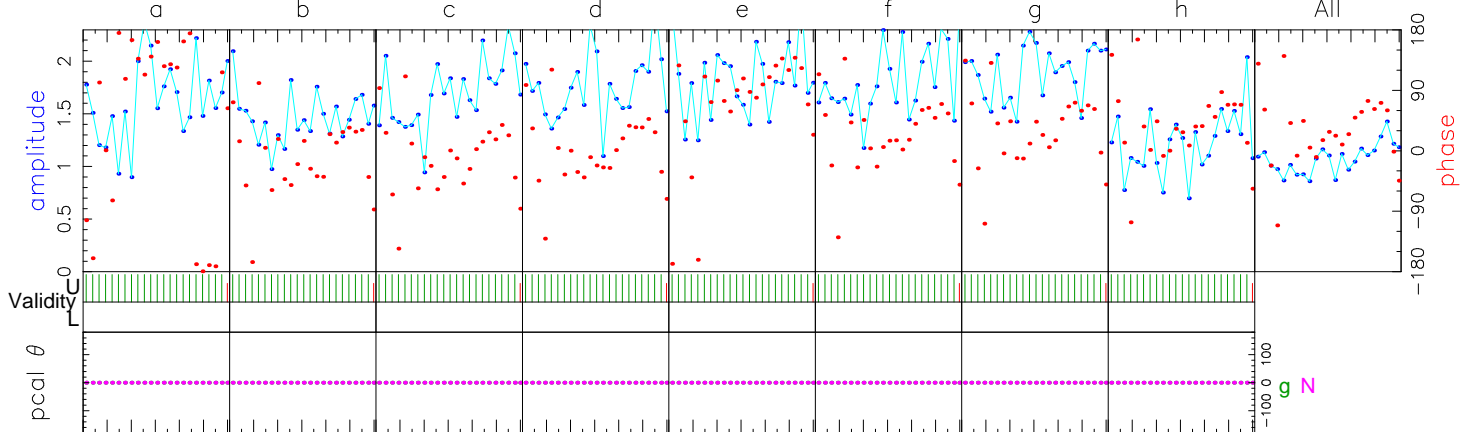
Fringe quality 3

SNR 39.7
 Int time 359.918
 Amp 0.766
 Phase 34.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.002075
 MBD -0.006008
 Fringe rate (Hz)
 -0.007332
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135451
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
g:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd) 8.26896221961E+03 Apriori delay (usec) 8.26895260306E+03 Resid mbdelay (usec) -6.00845E-03 +/- 2.7E-05
 Sband delay (usec) 8.26895467756E+03 Apriori clock (usec) 1.3645765E+01 Resid sbdelay (usec) 2.07450E-03 +/- 2.2E-04
 Phase delay (usec) 8.26895260418E+03 Apriori clockrate (us/s) -9.1940006E-06 Resid phdelay (usec) 1.12201E-06 +/- 9.3E-08
 Delay rate (us/s) 7.21801385858E-01 Apriori rate (us/s) 7.21801470974E-01 Resid rate (us/s) -8.51162E-08 +/- 4.5E-10
 Total phase (deg) 116.7 Apriori accel (us/s/s) -2.33276132393E-05 Resid phase (deg) 34.8 +/- 2.9

ph/seg (deg) 52.3 6.9 Search (2048X32) 0.737 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 43.8 12.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 61.9 4.1 Inc. seg. avg. 1.064 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 53.1 7.1 Inc. frq. avg. 1.138 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 g: az 205.0 el 54.9 pa 7.2 N: az 304.9 el 26.0 pa 55.2 u,v (fr/asec) -5637.545 173.274 ion window (TEC) 0.00 0.00
 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gN..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gN.W.192.1W5ADF

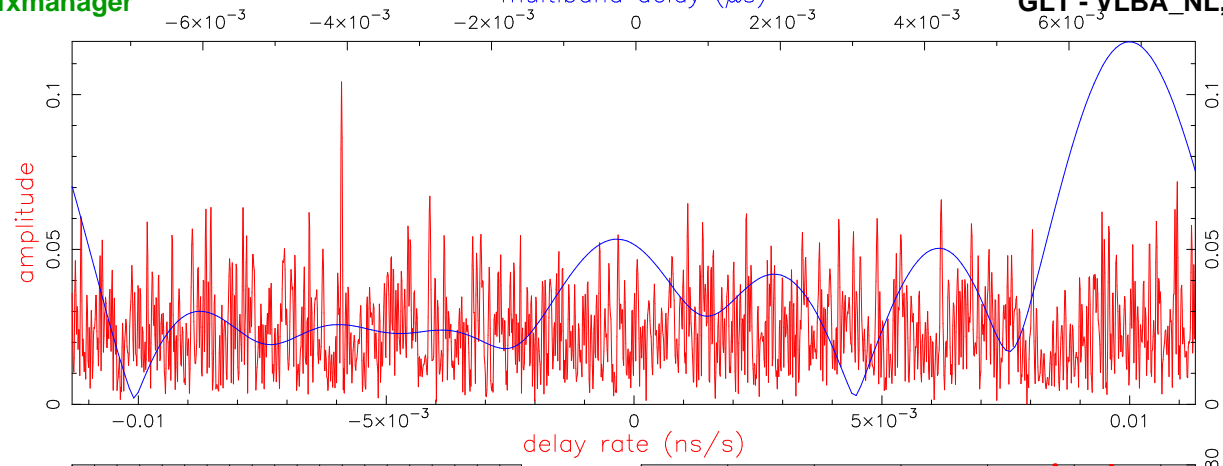
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gn

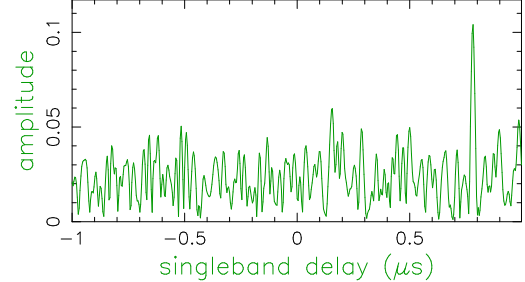
GLT - VLBA_NL, fgroup W, pol LR

multiband delay (μ s)

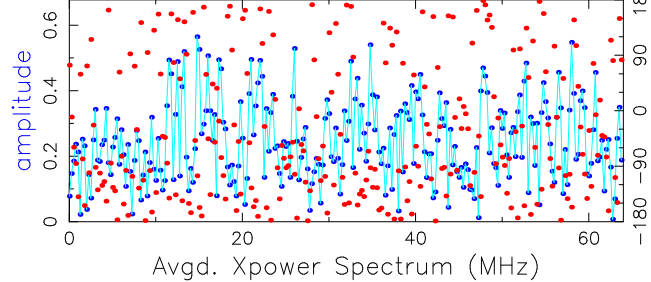


Fringe quality 0

SNR 5.4
 Int time 359.915
 Amp 0.117
 Phase -48.2
 PFD 1.0e+00
 Delays (us)
 SBD 0.780380
 MBD -0.008301
 Fringe rate (Hz)
 -0.509356
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

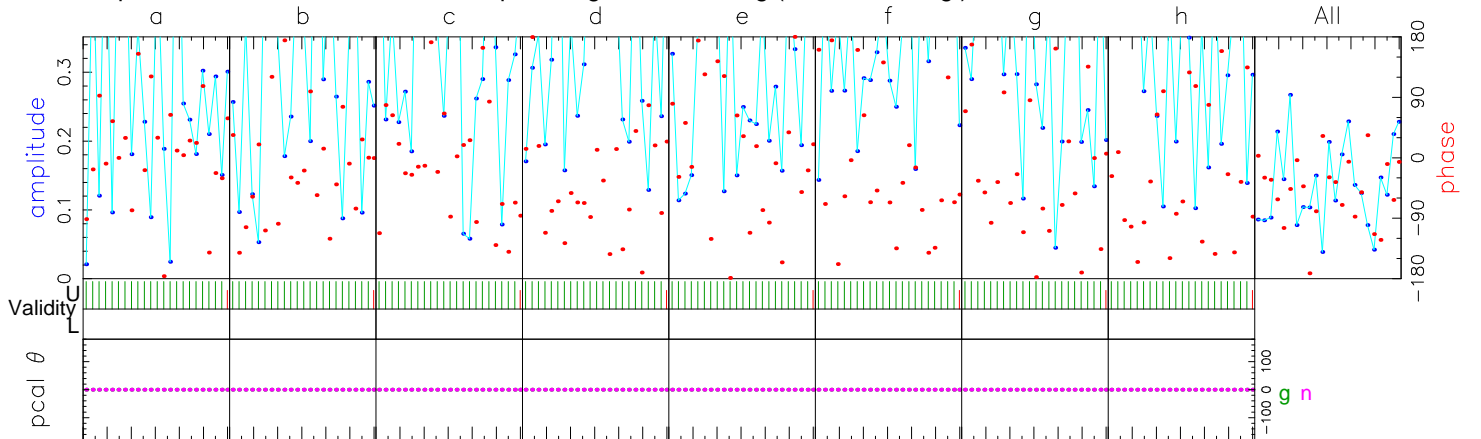


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135452
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
g	0	0	0	0	0	0	0	0	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.89333336591E+03								Resid mbdelay (usec)	-8.30078E-03 +/- 2.0E-04
Sband delay (usec)	-3.89332593463E+03								Resid sbdelay (usec)	7.80380E-01 +/- 1.6E-03
Phase delay (usec)	-3.89410631668E+03								Resid phdelay (usec)	-1.55351E-06 +/- 6.8E-07
Delay rate (us/s)	-1.32295588592E-01								Resid rate (us/s)	-5.91312E-06 +/- 3.3E-09
Total phase (deg)			-42.8						Resid phase (deg)	-48.2 +/- 21.1
	RMS	Theor.	Amplitude	0.117 +/- 0.022					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	49.3	50.7	Search (2048X32)	0.115					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	66.0	88.5	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	44.9	29.9	Inc. seg. avg.	0.110					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	53.1	52.2	Inc. frq. avg.	0.122					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
g: az 205.0 el 54.9 pa 7.2			n: az 76.3 el 87.2 pa -102.2						u,v (fr/asec) 1114.159 5152.262	simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gn..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gn.W.197.1W5ADF

Mk4/DiFX fourfit 3.21 rev 2937

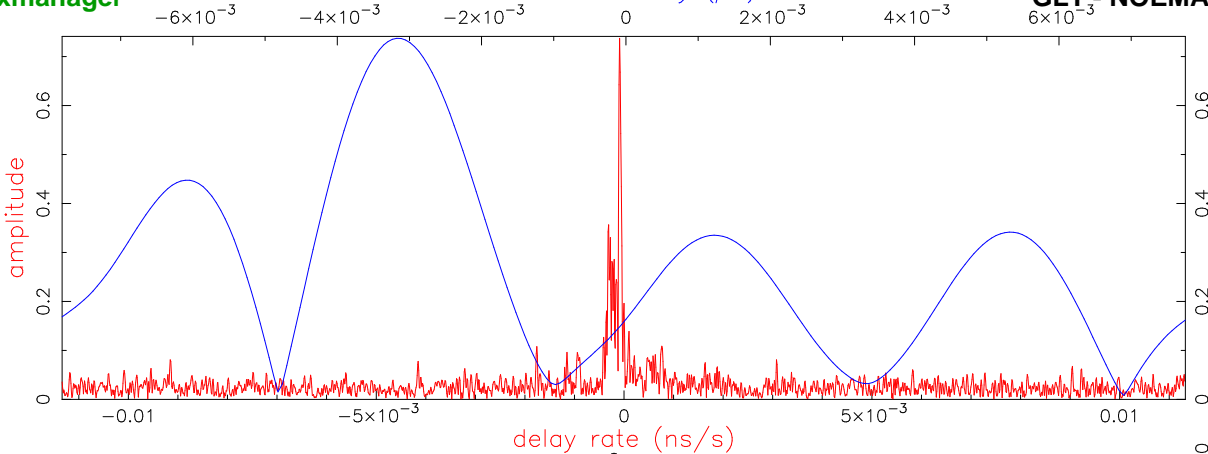
fxmanager

BLLAC.1W5ADF, No0245, gN

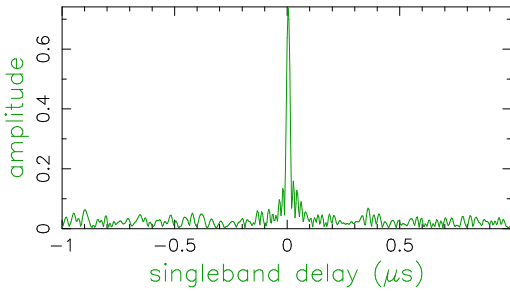
GLT - NOEMA, fgroup W, pol RL

multiband delay (μ s)

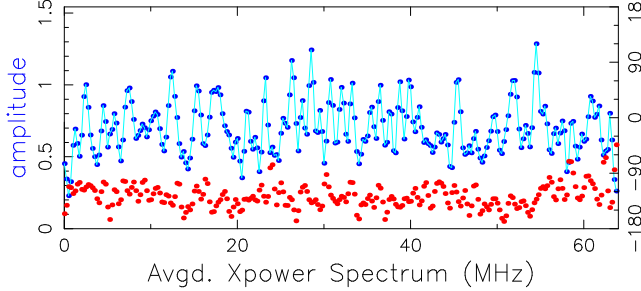
Fringe quality 4



SNR 38.5
 Int time 359.918
 Amp 0.741
 Phase -36.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.004795
 MBD -0.003151
 Fringe rate (Hz)
 -0.007278
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

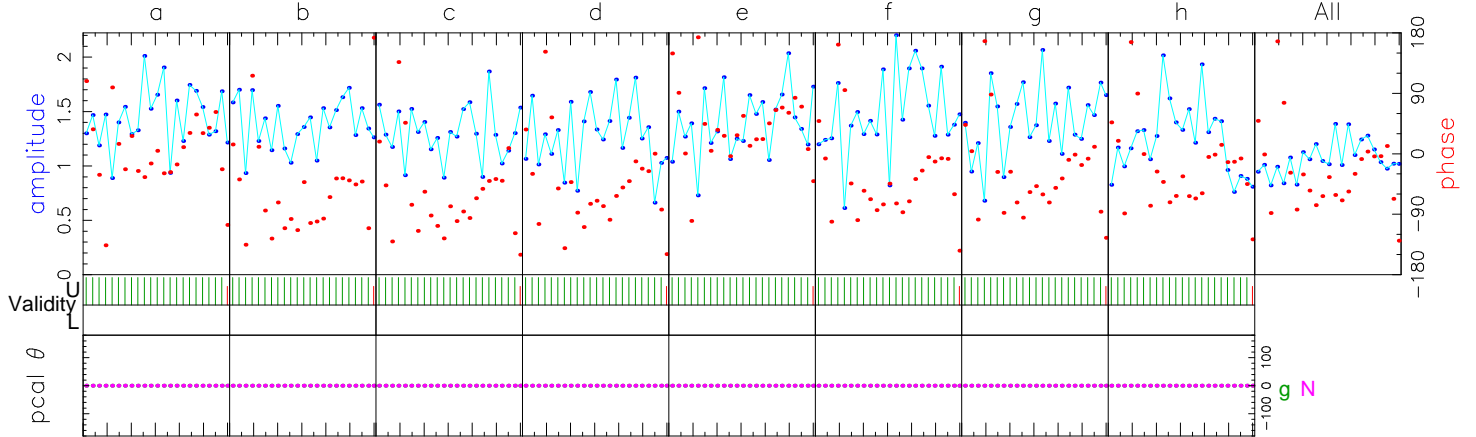


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135455
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	4.5	-69.6	-75.5	-57.2	39.0	-52.1	-41.5	-32.6	Phase	-36.3
	1.0	0.9	0.8	0.8	1.0	1.0	0.9	0.8	Ampl.	0.9
	257.9	258.2	258.1	258.4	258.3	258.2	258.4	258.2	Sbd box	258.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	8.26896507701E+03		Apriori delay (usec)		8.26895260306E+03		Resid mbdelay (usec)		-3.15104E-03	+/- 2.8E-05
Sband delay (usec)	8.26895739781E+03		Apriori clock (usec)		1.3645765E+01		Resid sbdelay (usec)		4.79475E-03	+/- 2.2E-04
Phase delay (usec)	8.26895260189E+03		Apriori clockrate (us/s)		-9.1940006E-06		Resid phdelay (usec)		-1.17191E-06	+/- 9.6E-08
Delay rate (us/s)	7.21801386487E-01		Apriori rate (us/s)		7.21801470974E-01		Resid rate (us/s)		-8.44870E-08	+/- 4.6E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.33276132393E-05		Resid phase (deg)		-36.3	+/- 3.0

ph/seg (deg) 55.1 7.1 Search (2048X32) 0.710 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 48.7 12.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 42.2 4.2 Inc. seg. avg. 1.061 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 25.0 7.4 Inc. frq. avg. 0.912 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 g: az 205.0 el 54.9 pa 7.2 N: az 304.9 el 26.0 pa 55.2 u,v (fr/asec) -5637.545 173.274 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gN..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gN.W.214.1W5ADF

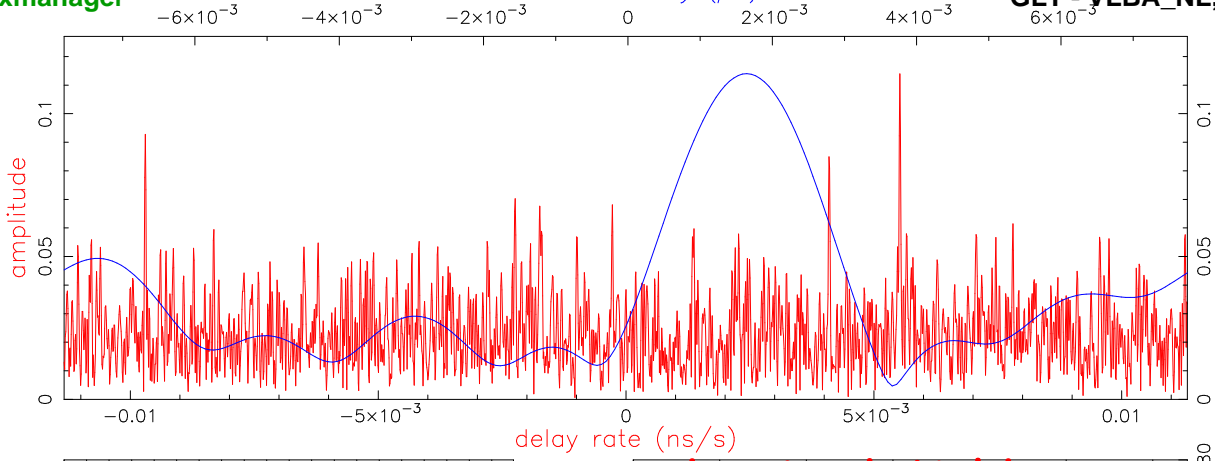
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gn

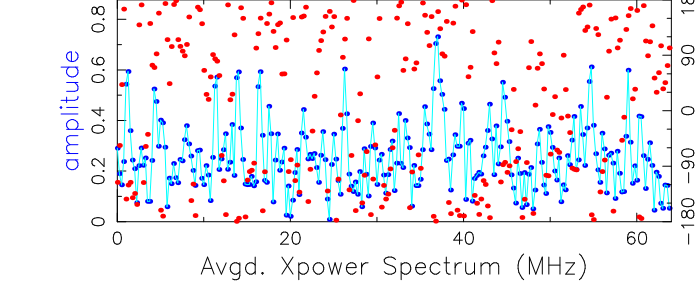
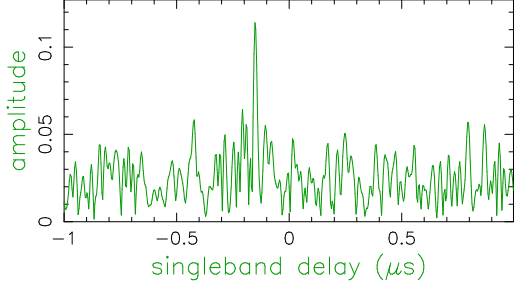
GLT - VLBA_NL, fgroup W, pol RL

multiband delay (μ s)



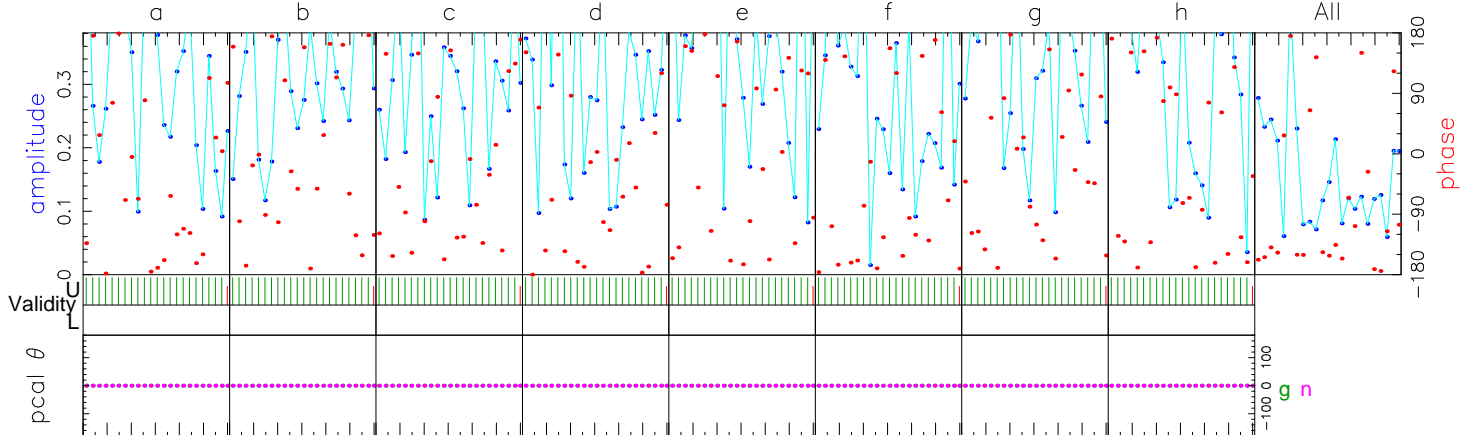
Fringe quality 0

SNR 6.0
 Int time 359.914
 Amp 0.127
 Phase -157.2
 PFD 4.7e-01
 Delays (us)
 SBD -0.151144
 MBD 0.001689
 Fringe rate (Hz)
 0.476967
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135455
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-155.5	-148.0	-147.5	-151.4	172.6	-144.8	-77.5	-161.0	Phase	-157.2
	0.1	0.1	0.1	0.1	0.2	0.2	0.0	0.2	Ampl.	0.1
	328.2	155.1	461.2	495.9	478.6	150.0	321.6	219.8	Sbd box	218.3
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.89426087617E+03		Apriori delay (usec)		-3.89410631513E+03		Resid mbdelay (usec)		1.68896E-03	+/- 1.8E-04
Sband delay (usec)	-3.89425745938E+03		Apriori clock (usec)		-4.9898834E+00		Resid sbdelay (usec)		-1.51144E-01	+/- 1.4E-03
Phase delay (usec)	-3.89410632020E+03		Apriori clockrate (us/s)		-2.4000000E-07		Resid phdelay (usec)		-5.06829E-06	+/- 6.2E-07
Delay rate (us/s)	-1.32284138354E-01		Apriori rate (us/s)		-1.32289675473E-01		Resid rate (us/s)		5.53712E-06	+/- 3.0E-09
Total phase (deg)			Apriori accel (us/s/s)		4.40407613235E-05		Resid phase (deg)		-157.2	+/- 19.2

ph/seg (deg) 65.2 46.1 Search (2048X32) 0.112 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 85.6 80.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 35.7 27.2 Inc. seg. avg. 0.131 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 42.4 47.4 Inc. frq. avg. 0.119 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 g: az 205.0 el 54.9 pa 7.2 n: az 76.3 el 87.2 pa -102.2 u,v (fr/asec) 1114.159 5152.262 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gn..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gn.W.216.1W5ADF

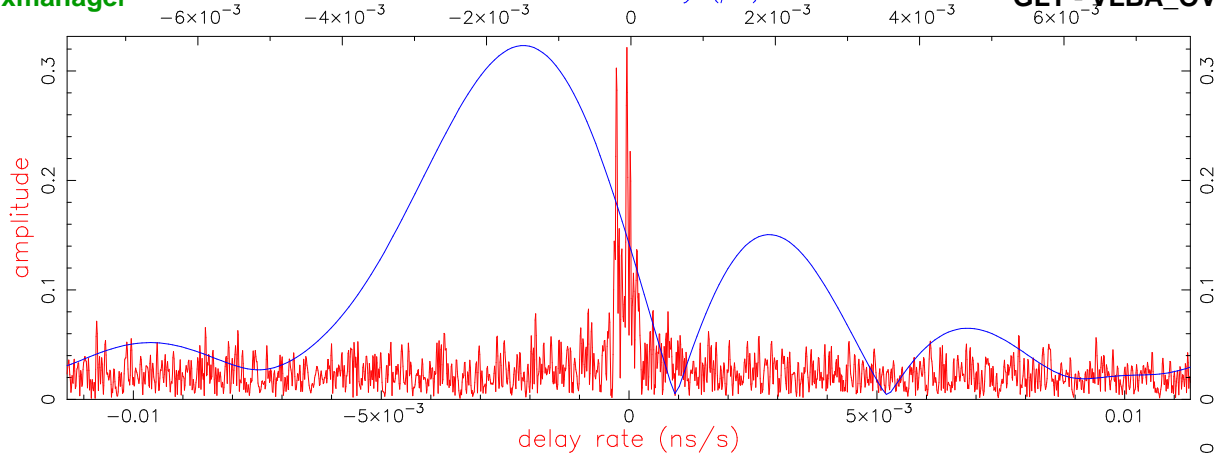
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, go

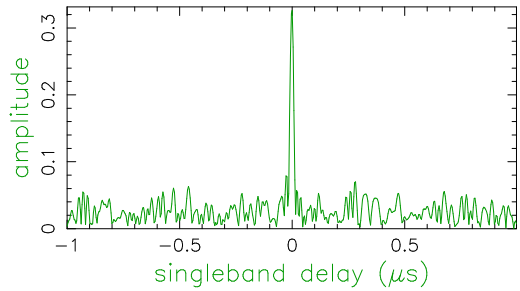
GLT - VLBA_OV, fgroup W, pol LL

multiband delay (μ s)

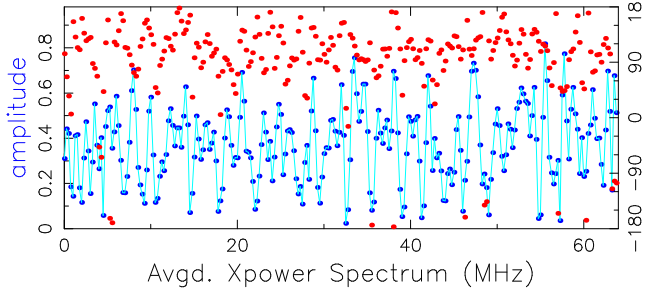


Fringe quality 7

SNR 17.2
 Int time 359.843
 Amp 0.332
 Phase 110.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.001671
 MBD -0.001349
 Fringe rate (Hz)
 -0.003858
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

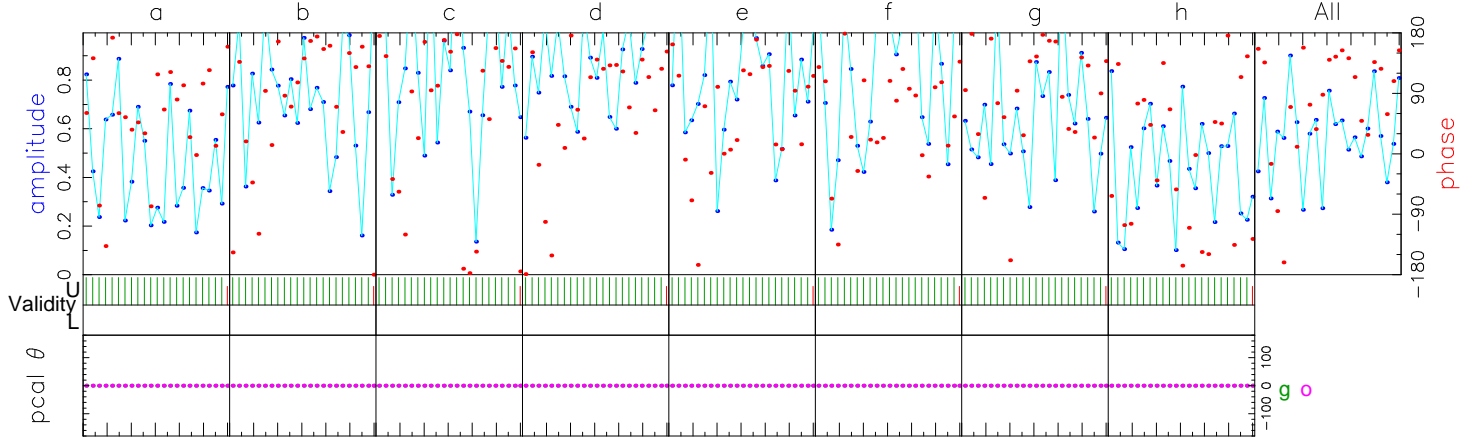


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135445
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
g	0	0	0	0	0	0	0	0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
g:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-2.21415596034E+03									
Sband delay (usec)	-2.21415628257E+03									
Phase delay (usec)	-2.21415460825E+03									
Delay rate (us/s)	-5.40642855891E-01									
Total phase (deg)			16.2							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									110.6	+/- 6.7
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
ion window (TEC)										
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

ph/seg (deg) 64.7 16.0
 amp/seg (%) 87.5 27.9
 ph/frq (deg) 41.3 9.4
 amp/frq (%) 42.3 16.4
 g: az 205.0 el 54.9 pa 7.2
 o: az 68.0 el 66.2 pa -91.8
 u,v (fr/asec) 4271.331 5203.201
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/go..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/go.W.164.1W5ADF

Mk4/DiFX fourfit 3.21 rev 2937

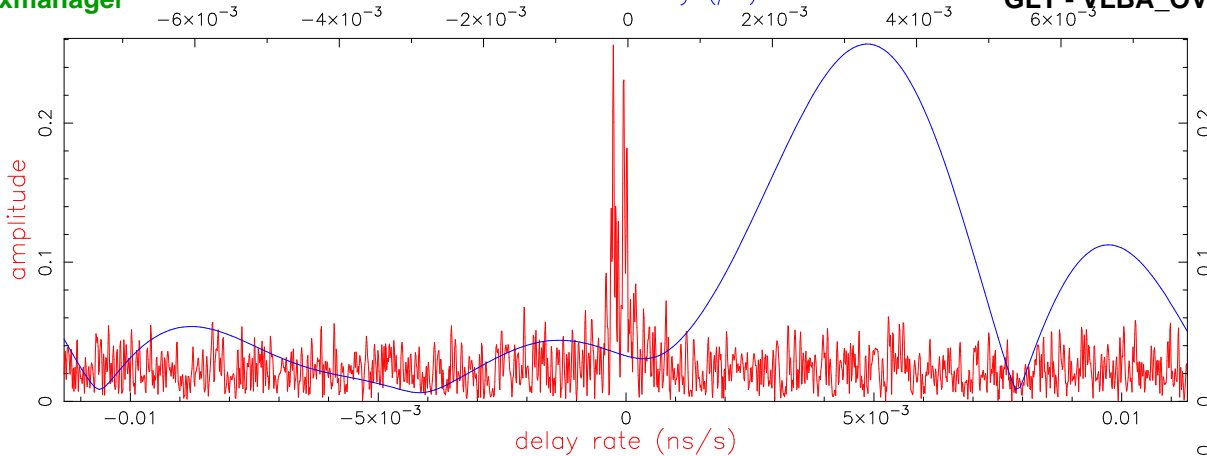
fxmanager

BLLAC.1W5ADF, No0245, go

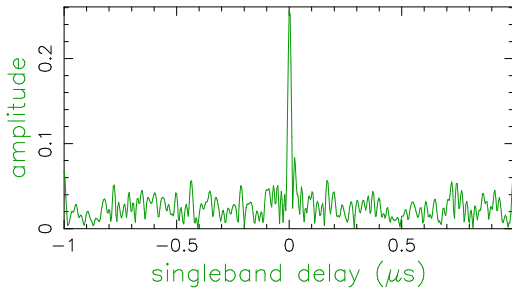
GLT - VLBA_OV, fgroup W, pol RR

multiband delay (μ s)

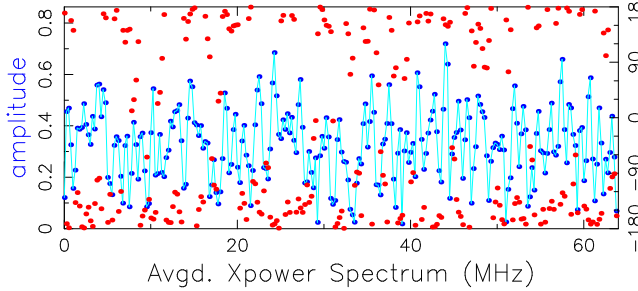
Fringe quality 9



SNR 13.5
 Int time 359.843
 Amp 0.261
 Phase 168.5
 PFD 5.9e-33
 Delays (us)
 SBD 0.001632
 MBD 0.003415
 Fringe rate (Hz)
 -0.021549
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

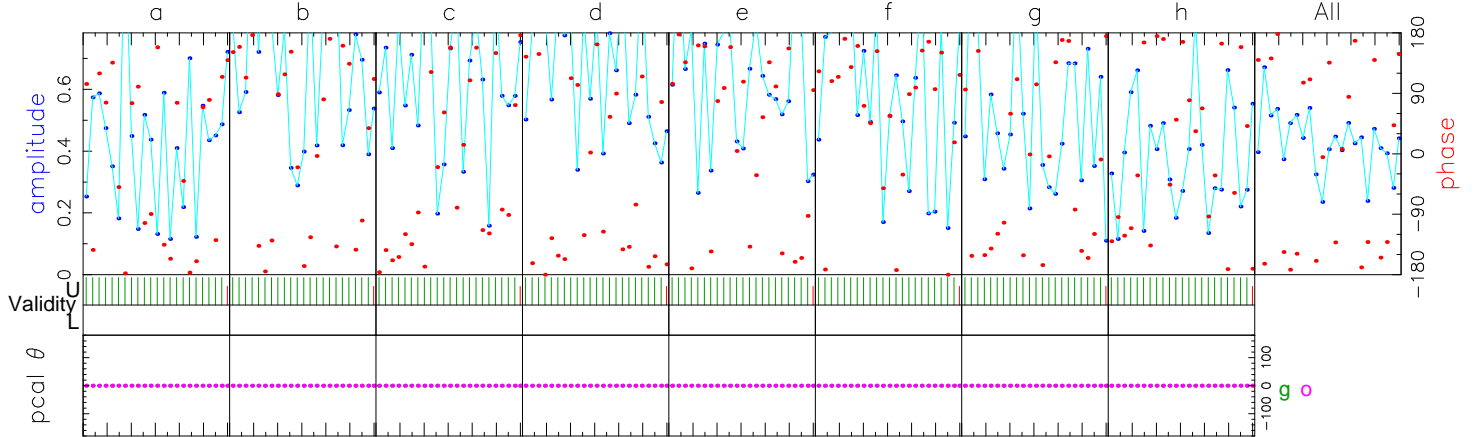


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135449
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
g	0	0	0	0	0	0	0	0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
g:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.21415119671E+03									
Sband delay (usec)	-2.21415297957E+03									
Phase delay (usec)	-2.21415460638E+03									
Delay rate (us/s)	-5.40643061273E-01									
Total phase (deg)			74.2							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									168.5	+/- 8.5
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
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

ph/seg (deg) 69.3 20.3 Search (2048X32) 0.248 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 75.1 35.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 31.6 12.0 Inc. seg. avg. 0.405 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.1 20.9 Inc. frq. avg. 0.274 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 g: az 205.0 el 54.9 pa 7.2 o: az 68.0 el 66.2 pa -91.8 u,v (fr/asec) 4271.331 5203.201 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/c211a/v2/1234/No0245/go..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/go.W.178.1W5ADF simultaneous interpolator

Mk4/DiFX fourfit 3.21 rev 2937

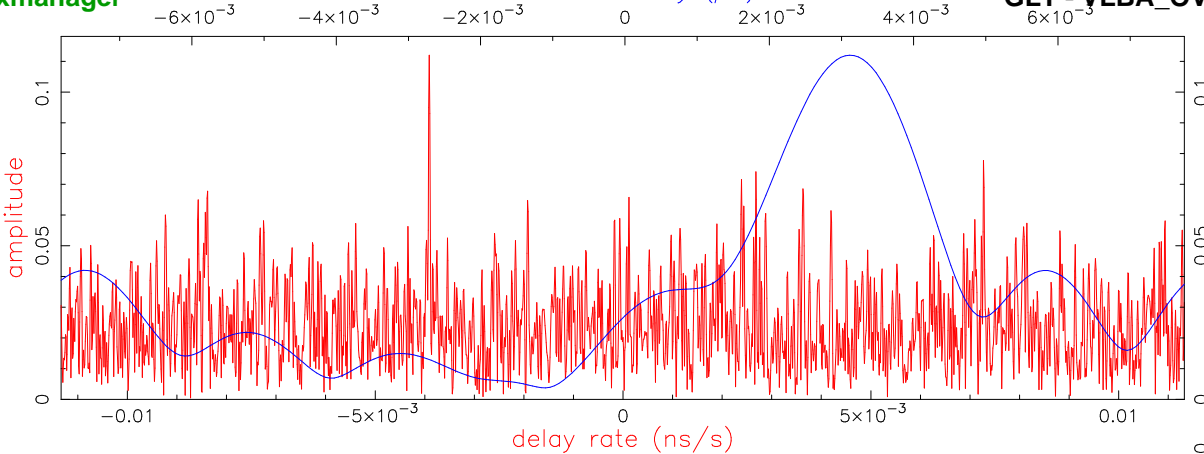
fxmanager

BLLAC.1W5ADF, No0245, go

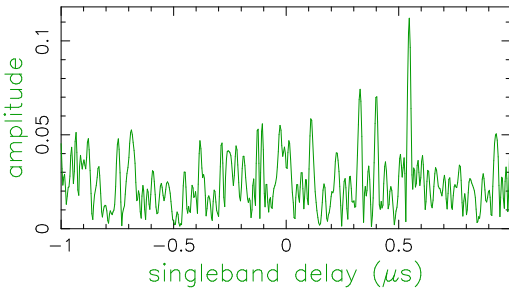
GLT - VLBA_OV, fgroup W, pol LR

multiband delay (μ s)

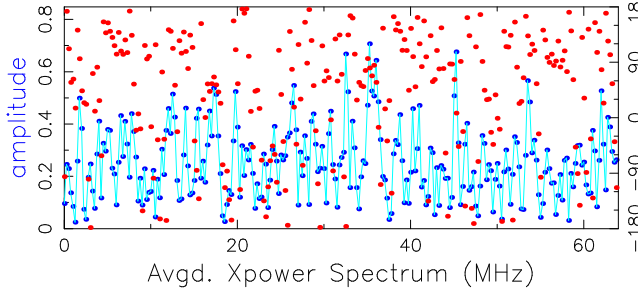
Fringe quality 0



SNR 5.8
 Int time 359.843
 Amp 0.118
 Phase -124.7
 PFD 7.5e-01
 Delays (us)
 SBD 0.546179
 MBD 0.003121
 Fringe rate (Hz)
 -0.337461
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

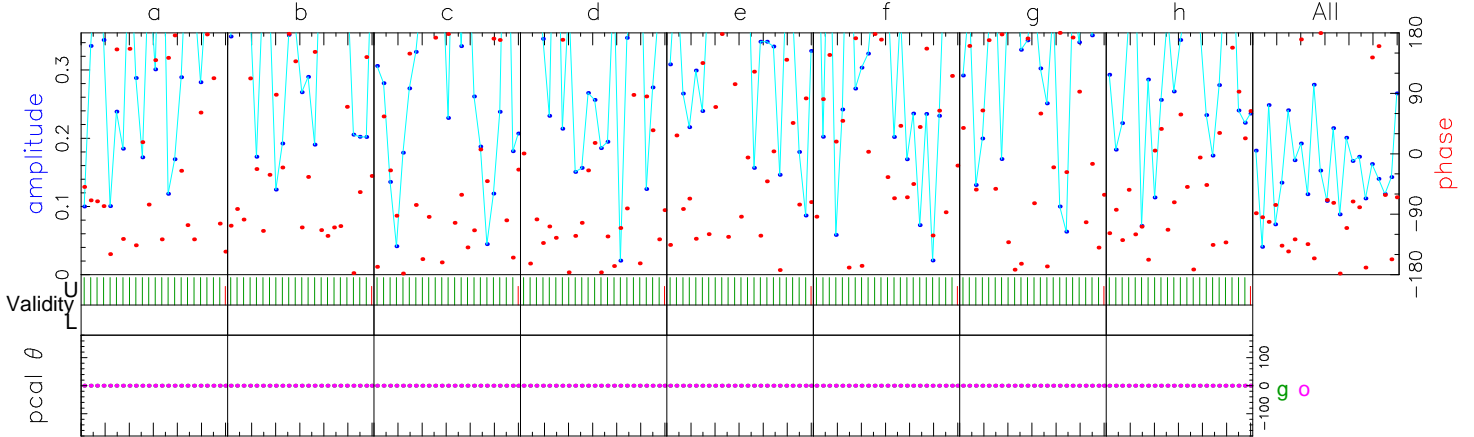


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135452
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-129.5	-105.9	-132.6	-126.7	-109.1	-160.6	-140.6	-95.9	Phase	-124.7
	0.2	0.2	0.2	0.2	0.0	0.1	0.1	0.1	Ampl.	0.1
	315.4	249.9	390.3	395.8	38.7	199.3	342.5	330.3	Sbd box	396.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.21360461624E+03		Apriori delay (usec)		-2.21415461182E+03		Resid mbdelay (usec)		3.12058E-03	+/- 1.9E-04
Sband delay (usec)	-2.21360843232E+03		Apriori clock (usec)		-3.2321053E+00		Resid sbdelay (usec)		5.46179E-01	+/- 1.5E-03
Phase delay (usec)	-2.21415461584E+03		Apriori clockrate (us/s)		-3.0000002E-07		Resid phdelay (usec)		-4.02136E-06	+/- 6.3E-07
Delay rate (us/s)	-5.40646728693E-01		Apriori rate (us/s)		-5.40642811108E-01		Resid rate (us/s)		-3.91758E-06	+/- 3.0E-09
Total phase (deg)			Apriori accel (us/s/s)		3.97580866886E-05		Resid phase (deg)		-124.7	+/- 19.6

	RMS	Theor.	Amplitude	0.118 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	47.7	47.1	Search (2048X32)	0.111	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	67.7	82.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	22.6	27.8	Inc. seg. avg.	0.126	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	45.2	48.5	Inc. frq. avg.	0.110	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

g: az 205.0 el 54.9 pa 7.2 o: az 68.0 el 66.2 pa -91.8 u,v (fr/asec) 4271.331 5203.201 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/go..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/go.W.198.1W5ADF

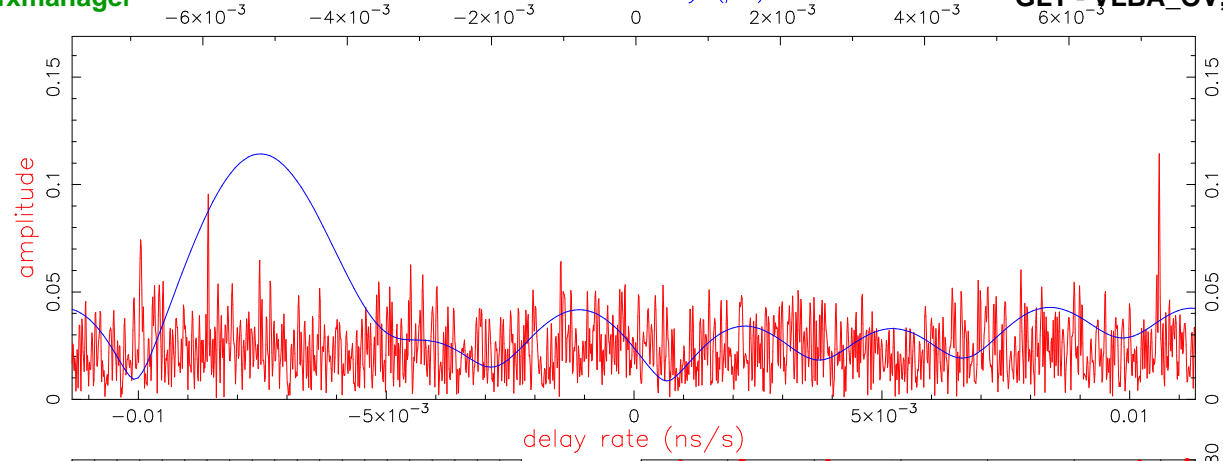
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, go

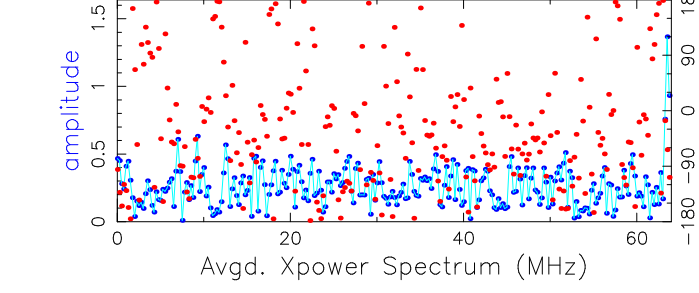
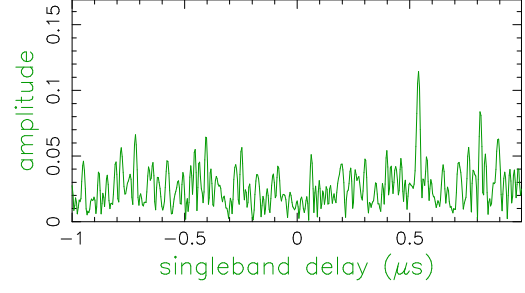
GLT - VLBA_OV, fgroup W, pol RL

multiband delay (μ s)



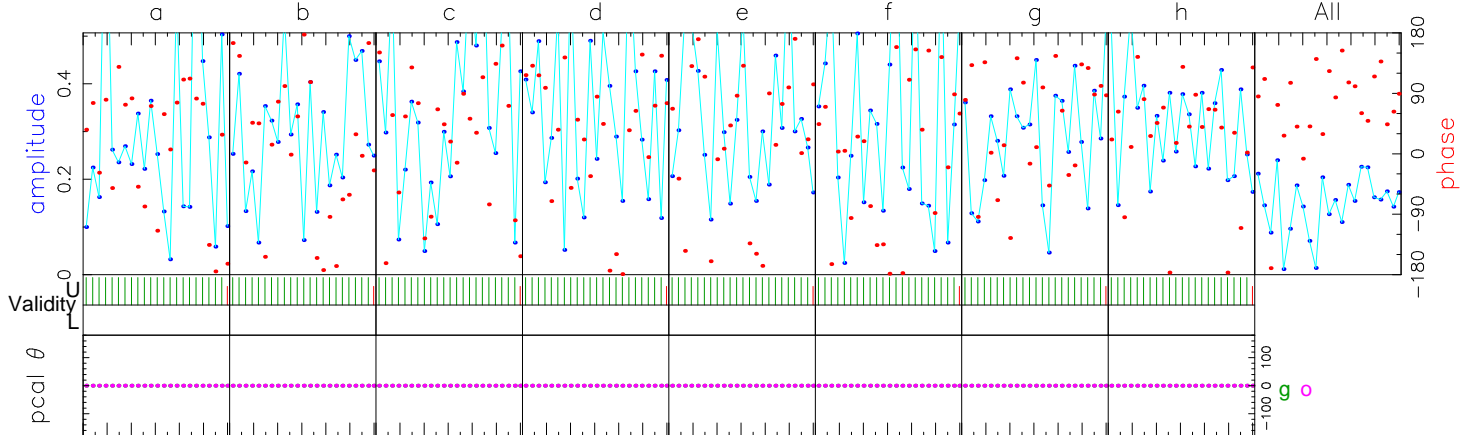
Fringe quality 0

SNR 5.9
Int time 359.843
Amp 0.169
Phase 79.4
PFD 5.4e-01
Delays (us)
SBD 0.538842
MBD -0.005207
Fringe rate (Hz) 0.914239
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512



Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 134500.00
Stop 135059.94
FRT 134800.00
Corr/FF/build
2021:286:102153
2021:286:135456
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
g	69.4	72.2	83.8	65.5	99.7	140.0	69.0	53.6	Phase	79.4
o	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
g:o	187.8	26.8	230.1	230.8	413.8	56.4	199.5	485.9	Sbd box	394.9
g	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
o	0	0	0	0	0	0	0	0	PC freqs	
g:o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.21361294374E+03		Apriori delay (usec)		-2.21415461182E+03		Resid mbdelay (usec)		-5.20692E-03	+/- 1.8E-04
Sband delay (usec)	-2.21361577007E+03		Apriori clock (usec)		-3.2321053E+00		Resid sbdelay (usec)		5.38842E-01	+/- 1.5E-03
Phase delay (usec)	-2.21415460926E+03		Apriori clockrate (us/s)		-3.0000002E-07		Resid phdelay (usec)		2.56116E-06	+/- 6.2E-07
Delay rate (us/s)	-5.40632197699E-01		Apriori rate (us/s)		-5.40642811108E-01		Resid rate (us/s)		1.06134E-05	+/- 3.0E-09
Total phase (deg)			Apriori accel (us/s/s)		3.97580866886E-05		Resid phase (deg)		79.4	+/- 19.3

ph/seg (deg) 46.8 46.3 Search (2048X32) 0.109 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 60.6 80.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 29.5 27.3 Inc. seg. avg. 0.165 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 33.4 47.7 Inc. frq. avg. 0.167 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
g: az 205.0 el 54.9 pa 7.2 o: az 68.0 el 66.2 pa -91.8 u,v (fr/asec) 4271.331 5203.201 ion window (TEC) 0.00 0.00 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/go..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/go.W.218.1W5ADF

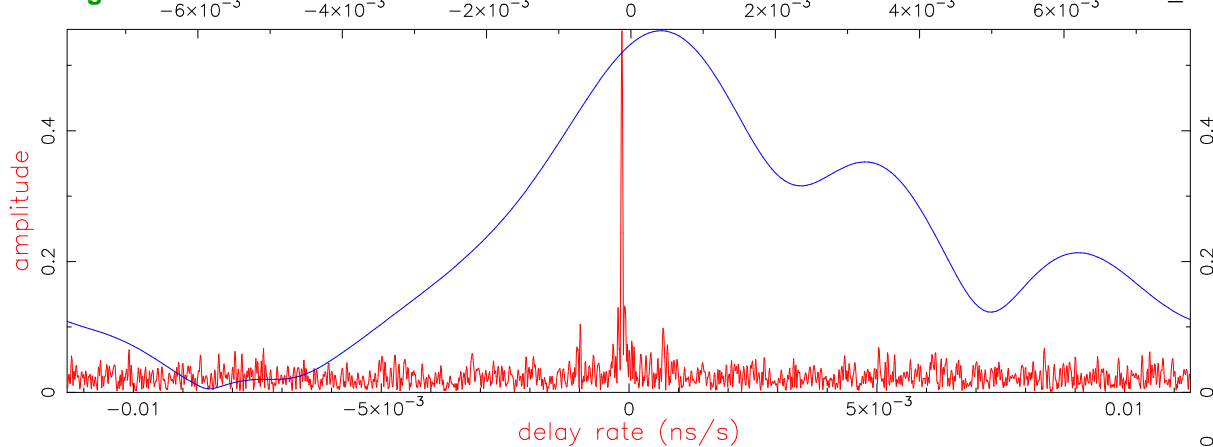
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gp

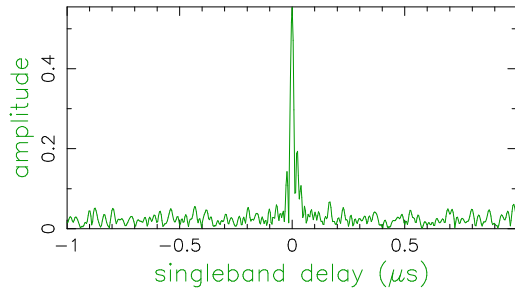
GLT - VLBA_PT, fgroup W, pol LL

multiband delay (μ s)

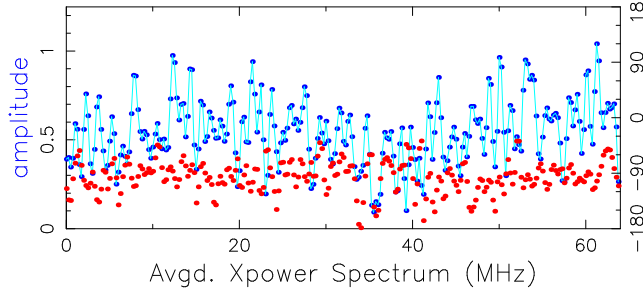


Fringe quality 5

SNR 28.8
 Int time 359.916
 Amp 0.555
 Phase -107.8
 PFD 0.0e+00
 Delays (us)
 SBD -0.000752
 MBD 0.000372
 Fringe rate (Hz)
 -0.012238
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

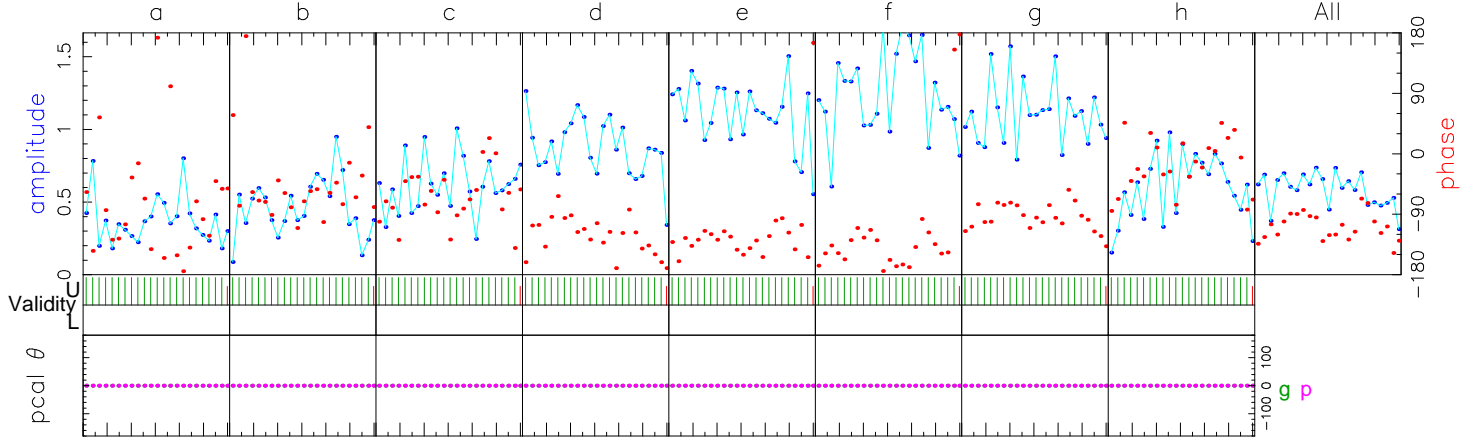


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135445
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

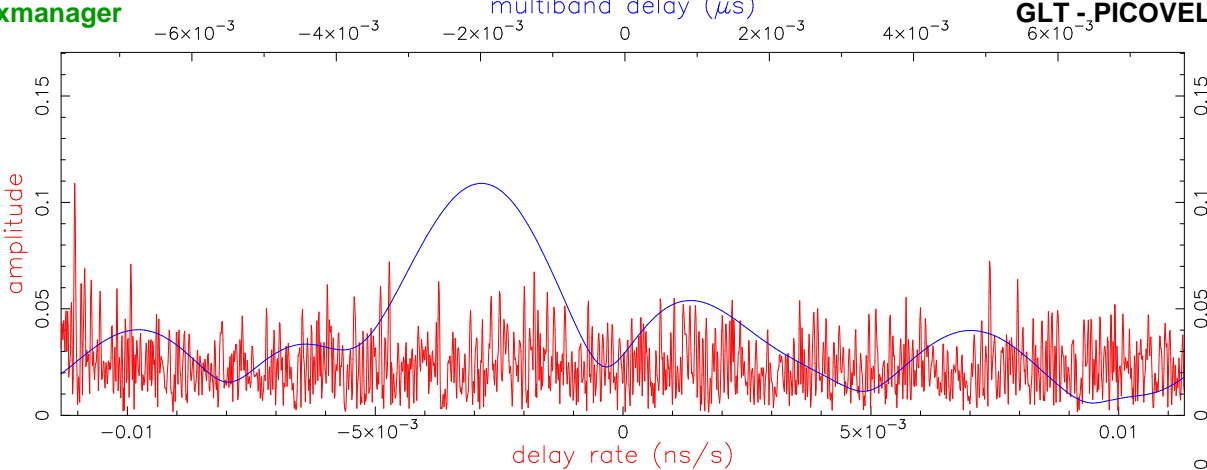
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-119.8	-66.1	-64.6	-121.4	-130.3	-146.3	-93.0	-6.8	Phase	-107.8
	0.2	0.4	0.5	0.8	1.1	1.1	1.1	0.5	Ampl.	0.7
	258.0	256.7	256.2	256.8	257.1	257.0	257.5	259.8	Sbd box	256.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.98133981720E+03		Apriori delay (usec)		-2.98134018961E+03		Resid mbdelay (usec)		3.72411E-04	+/- 3.8E-05
Sband delay (usec)	-2.98134094111E+03		Apriori clock (usec)		-5.1053391E+00		Resid sbdelay (usec)		-7.51500E-04	+/- 3.0E-04
Phase delay (usec)	-2.98134019309E+03		Apriori clockrate (us/s)		1.8000000E-07		Resid phdelay (usec)		-3.47561E-06	+/- 1.3E-07
Delay rate (us/s)	-4.04451913367E-01		Apriori rate (us/s)		-4.04451771300E-01		Resid rate (us/s)		-1.42067E-07	+/- 6.2E-10
Total phase (deg)			Apriori accel (us/s/s)		4.69740803834E-05		Resid phase (deg)		-107.8	+/- 4.0

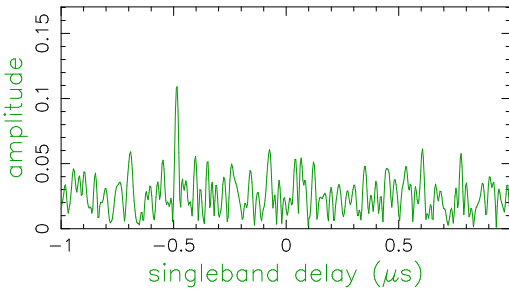
ph/seg (deg) 19.9 9.5 Theor. Amplitude 0.555 +/- 0.019
 amp/seg (%) 20.5 16.7 Search (2048X32) 0.548
 ph/frq (deg) 52.2 5.6 Inc. seg. avg. 0.580
 amp/frq (%) 65.5 9.8 Inc. frq. avg. 0.701
 g: az 205.0 el 54.9 pa 7.2 p: az 56.9 el 72.3 pa -111.3 u,v (fr/asec) 3230.248 6004.904
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gp..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gp.W.165.1W5ADF

multiband delay (μ s)

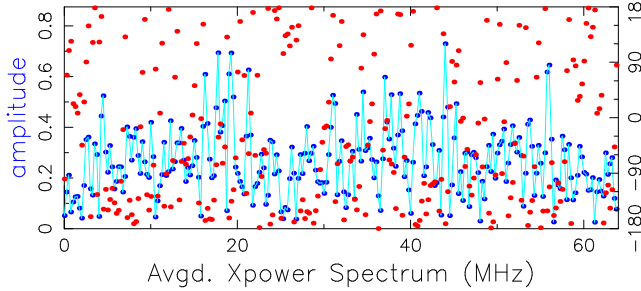


Fringe quality 0

SNR 5.8
 Int time 359.918
 Amp 0.170
 Phase 41.5
 PFD 8.8e-01
 Delays (us)
 SBD -0.486123
 MBD -0.002011
 Fringe rate (Hz)
 -0.954549
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

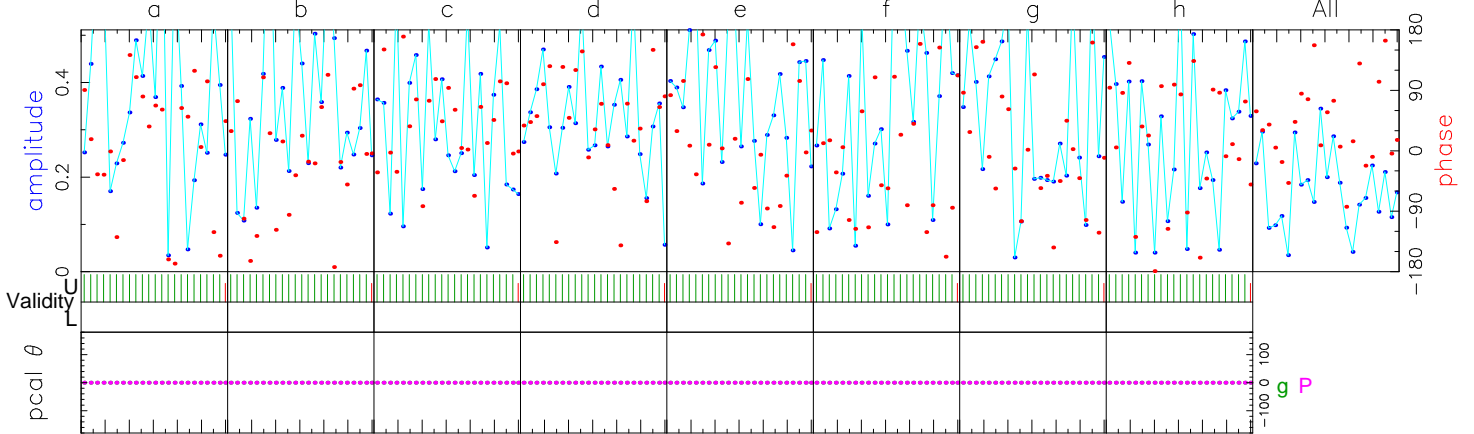


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135445
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
g:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
P	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	7.76165509036E+03	Apriori delay (usec)		7.76214147640E+03	Resid mbdelay (usec)		-2.01104E-03	+/- 1.9E-04	
Sband delay (usec)	7.76165535340E+03	Apriori clock (usec)		1.3964272E+00	Resid sbdelay (usec)		-4.86123E-01	+/- 1.5E-03	
Phase delay (usec)	7.76214147773E+03	Apriori clockrate (us/s)		6.6000000E-07	Resid phdelay (usec)		1.33694E-06	+/- 6.4E-07	
Delay rate (us/s)	8.20684266193E-01	Apriori rate (us/s)		8.20695347557E-01	Resid rate (us/s)		-1.10814E-05	+/- 3.1E-09	
Total phase (deg)	321.1		Apriori accel (us/s/s)		-1.31031340637E-05	Resid phase (deg)		41.5	+/- 19.9

ph/seg (deg)	61.3	Theor. 47.7	Amplitude	0.170 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	91.6	83.3	Search (2048X32)	0.109	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	70.0	28.2	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	43.4	49.1	Inc. seg. avg.	0.198	Sample rate(MISamp/s):	128	dr window (ns/s)	-0.011 0.011	
			Inc. frq. avg.	0.165	Data rate(Mb/s):	2048	ion window (TEC)	0.00 0.00	

g: az 205.0 el 54.9 pa 7.2 P: az 304.0 el 27.6 pa 64.2 u,v (fr/asec) -6383.070 1569.568 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gP..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gP.W.166.1W5ADF

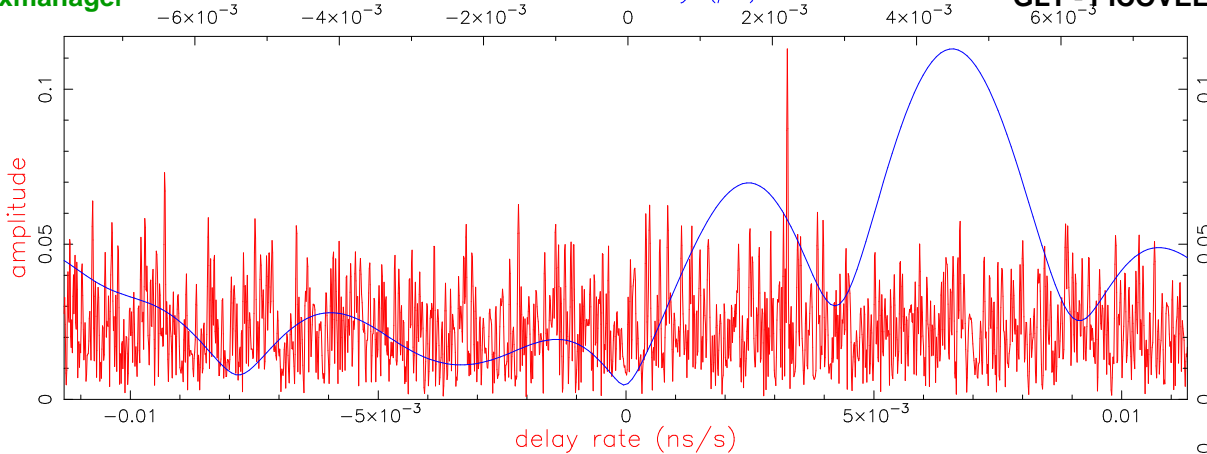
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gP

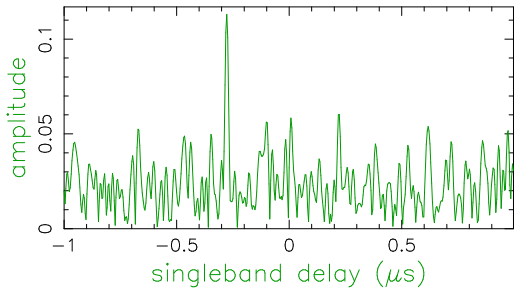
GLT - PICOVEL, fgroup W, pol RR

multiband delay (μ s)

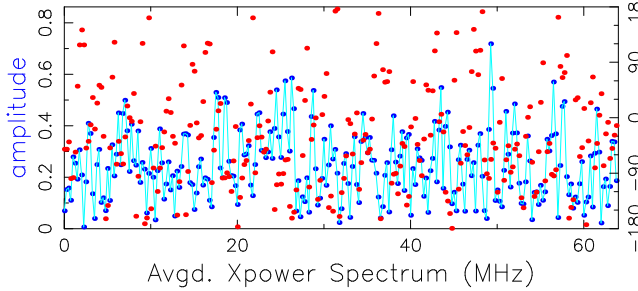


Fringe quality 0

SNR 5.9
 Int time 359.918
 Amp 0.117
 Phase -63.5
 PFD 6.8e-01
 Delays (us)
 SBD -0.277624
 MBD 0.004482
 Fringe rate (Hz)
 0.281158
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

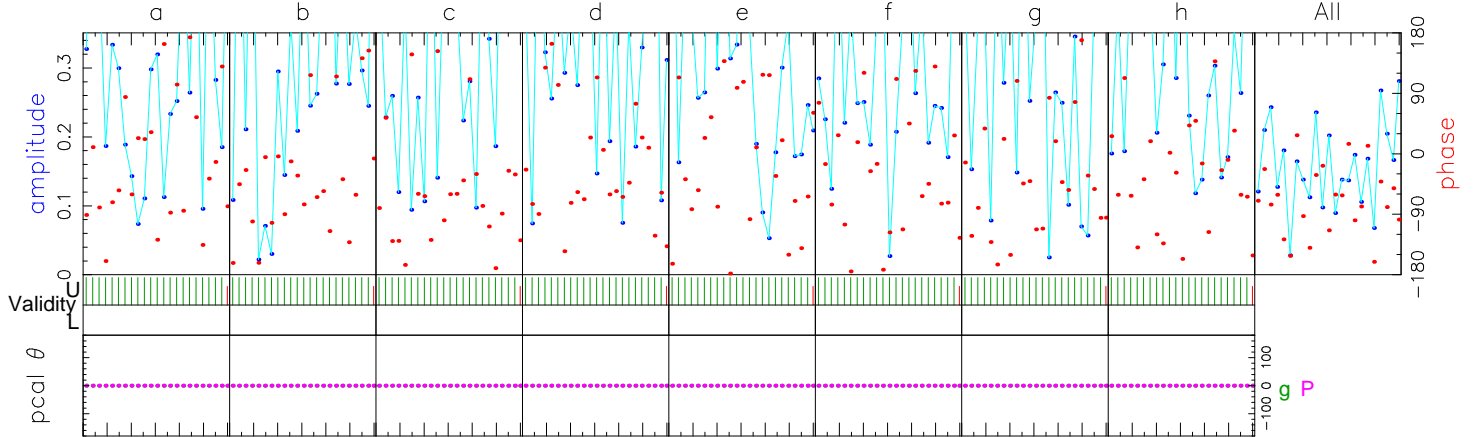


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135449
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-47.2	-62.9	-86.4	-49.9	-173.3	-7.1	-72.3	-60.2	Phase	-63.5
	0.1	0.2	0.2	0.1	0.0	0.1	0.1	0.1	Ampl.	0.1
	78.3	186.4	185.7	511.5	250.2	314.5	357.4	139.1	Sbd box	185.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
P/g	0	0	0	0	0	0	0	0	PC freqs	
g:P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
P/g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P/g	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	7.76186470816E+03		Apriori delay (usec)		7.76214147640E+03		Resid mbdelay (usec)		4.48176E-03	+/- 1.9E-04
Sband delay (usec)	7.76186385290E+03		Apriori clock (usec)		1.3964272E+00		Resid sbdelay (usec)		-2.77624E-01	+/- 1.5E-03
Phase delay (usec)	7.76214147435E+03		Apriori clockrate (us/s)		6.6000000E-07		Resid phdelay (usec)		-2.04926E-06	+/- 6.3E-07
Delay rate (us/s)	8.20698611519E-01		Apriori rate (us/s)		8.20695347557E-01		Resid rate (us/s)		3.26396E-06	+/- 3.0E-09
Total phase (deg)	216.1		Apriori accel (us/s/s)		-1.31031340637E-05		Resid phase (deg)		-63.5	+/- 19.5

	RMS	Theor.	Amplitude	0.117 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	50.9	46.8	Search (2048X32)	0.111	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	66.8	81.8	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	52.1	27.6	Inc. seg. avg.	0.122	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	55.6	48.2	Inc. frq. avg.	0.112	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

g: az 205.0 el 54.9 pa 7.2 P: az 304.0 el 27.6 pa 64.2 u,v (fr/asec) -6383.070 1569.568 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gP..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gP.W.181.1W5ADF

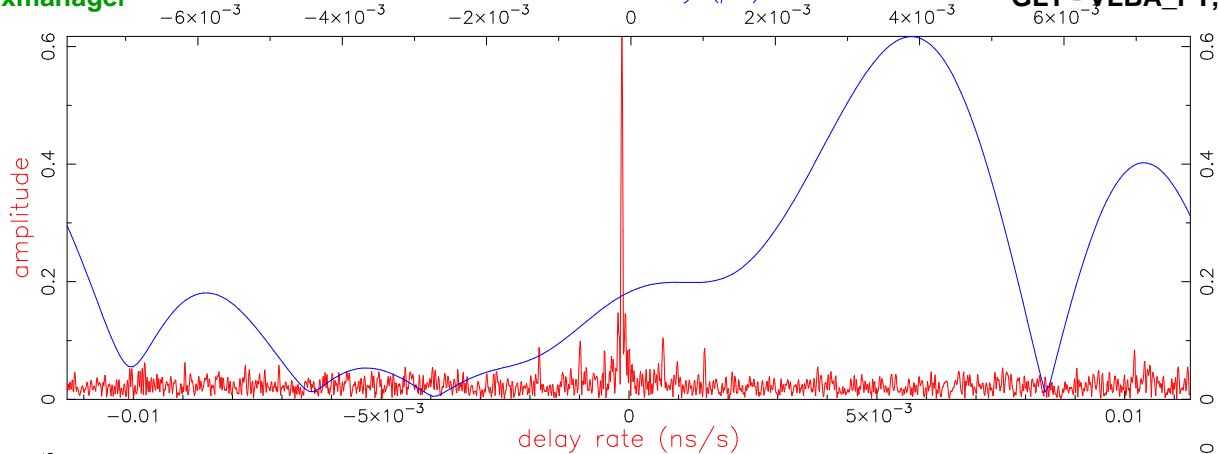
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gp

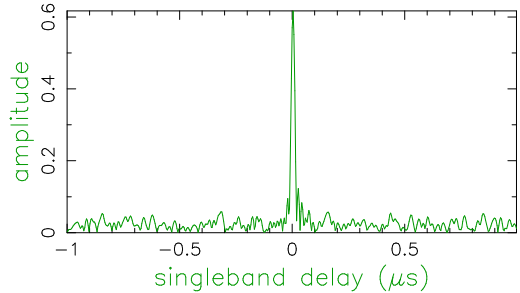
GLT - VLBA_PT, fgroup W, pol RR

multiband delay (μ s)

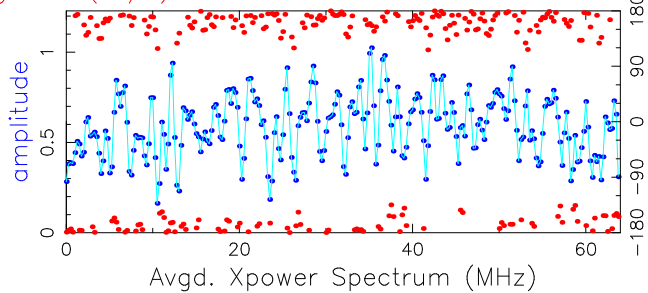


Fringe quality 6

SNR 32.0
 Int time 359.916
 Amp 0.617
 Phase 170.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.003585
 MBD 0.003870
 Fringe rate (Hz)
 -0.012424
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

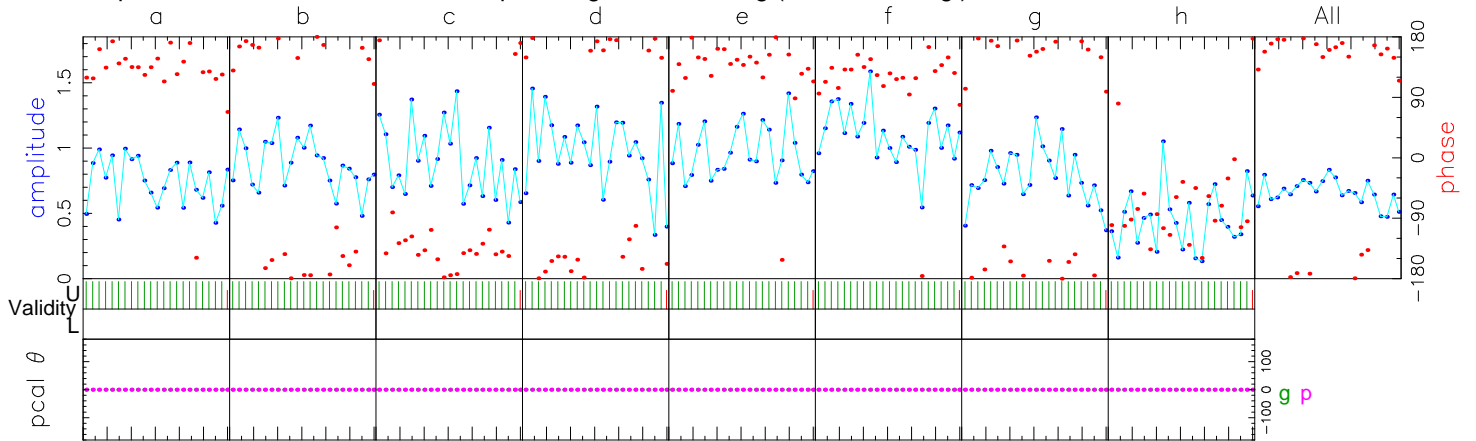


delay rate (ns/s)



Exp. c211a
 Yr:day 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135449
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
g	0	0	0	0	0	0	0	0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
g:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.98133632001E+03									
Sband delay (usec)	-2.98133660411E+03									
Phase delay (usec)	-2.98134018413E+03									
Delay rate (us/s)	-4.04451915536E-01									
Total phase (deg)			-165.9							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									170.0	+/- 3.6
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
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

ph/seg (deg) 22.3 8.6 Amplitude 0.617 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 16.9 15.0 Interp. 0.615 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 51.5 5.1 Inc. seg. avg. 0.655 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 38.5 8.8 Inc. frq. avg. 0.762 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 g: az 205.0 el 54.9 pa 7.2 p: az 56.9 el 72.3 pa -111.3 u,v (fr/asec) 3230.248 6004.904 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/c211a/v2/1234/No0245/gp..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gp.W.182.1W5ADF simultaneous interpolator

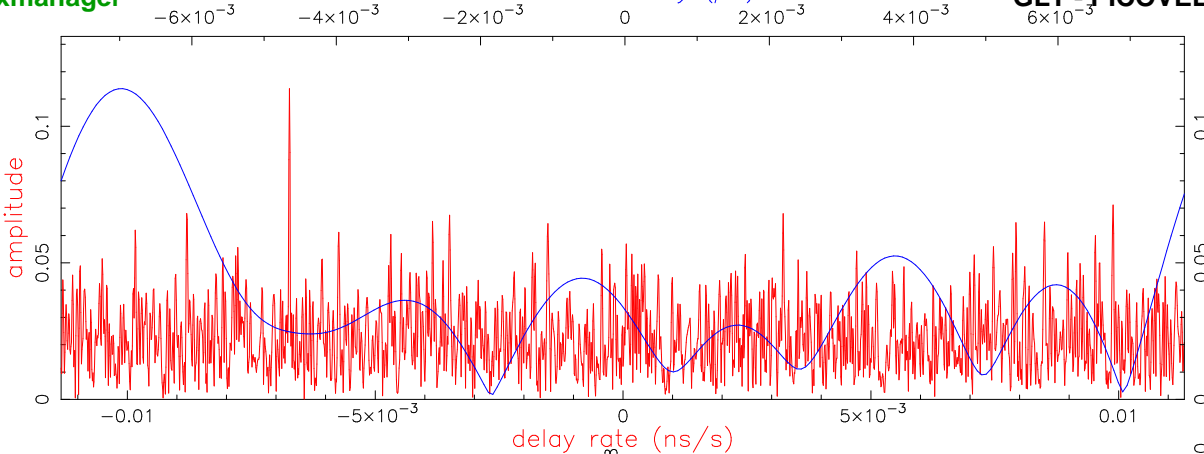
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gP

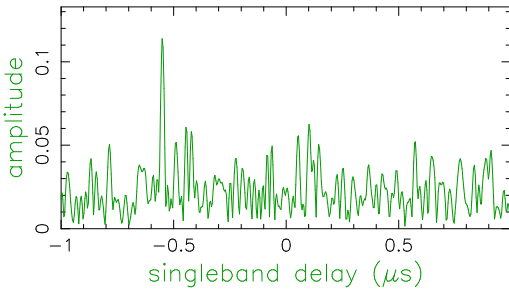
GLT - PICOVEL, fgroup W, pol LR

multiband delay (μs)

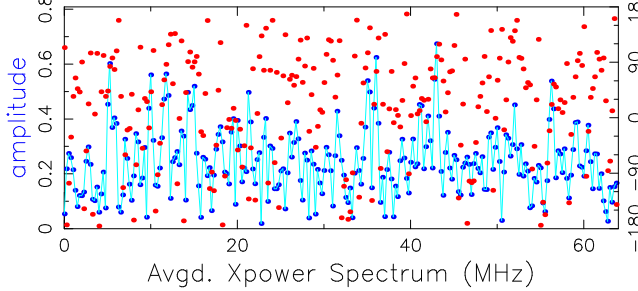


Fringe quality 0

SNR 5.9
 Int time 359.918
 Amp 0.133
 Phase -70.2
 PFD 5.3e-01
 Delays (us)
 SBD -0.549825
 MBD -0.006974
 Fringe rate (Hz)
 -0.580777
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

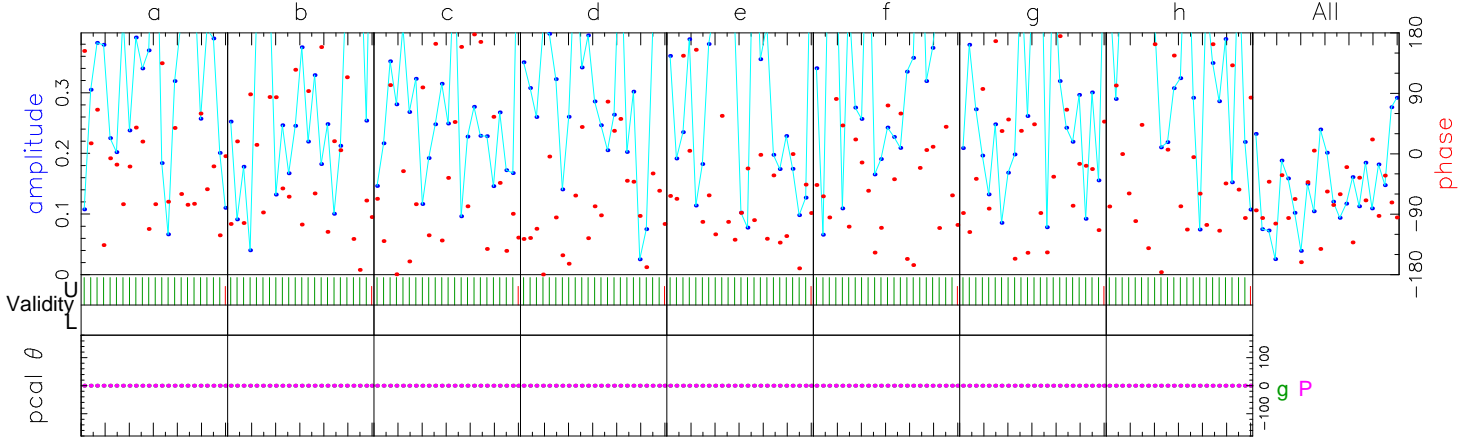


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135453
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-41.5	-105.8	-125.6	-70.5	-83.7	-45.8	-35.6	-84.6	Phase	-70.2
	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.2	Ampl.	0.1
	425.2	343.8	471.0	104.8	41.2	373.4	165.7	402.8	Sbd box	116.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
P/g	0	0	0	0	0	0	0	0	PC freqs	
	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	7.76158762737E+03	Apriori delay (usec)	7.76214147640E+03	Resid mbdelay (usec)	-6.97403E-03	+/-	1.8E-04
Sband delay (usec)	7.76159165165E+03	Apriori clock (usec)	1.3964272E+00	Resid sbdelay (usec)	-5.49825E-01	+/-	1.5E-03
Phase delay (usec)	7.76214147413E+03	Apriori clockrate (us/s)	6.6000000E-07	Resid phdelay (usec)	-2.26535E-06	+/-	6.2E-07
Delay rate (us/s)	8.20688605311E-01	Apriori rate (us/s)	8.20695347557E-01	Resid rate (us/s)	-6.74225E-06	+/-	3.0E-09
Total phase (deg)	209.4	Apriori accel (us/s/s)	-1.31031340637E-05	Resid phase (deg)	-70.2	+/-	19.3

ph/seg (deg)	43.7	Theor.	46.3	Amplitude	0.133 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	64.5		80.8	Search (2048X32)	0.112	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	35.0		27.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	34.4		47.7	Inc. seg. avg.	0.127	Sample rate(MISamp/s): 128	mb window (us) -0.008 0.008
				Inc. frq. avg.	0.133	Data rate(Mb/s): 2048	dr window (ns/s) -0.011 0.011
						nlags: 256	t_cohere infinite
							ion window (TEC) 0.00 0.00

g: az 205.0 el 54.9 pa 7.2 P: az 304.0 el 27.6 pa 64.2 u,v (fr/asec) -6383.070 1569.568 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gP..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gP.W.204.1W5ADF

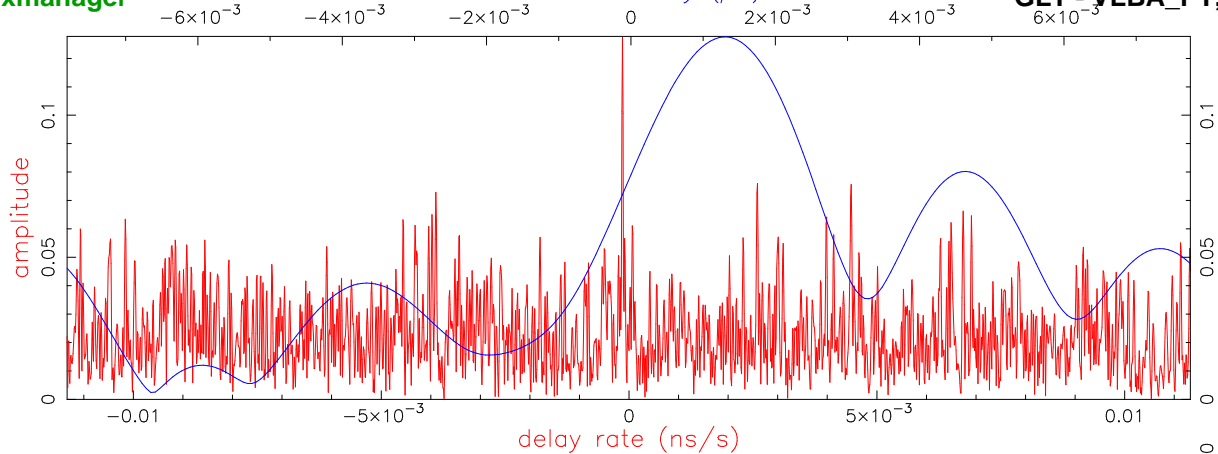
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gp

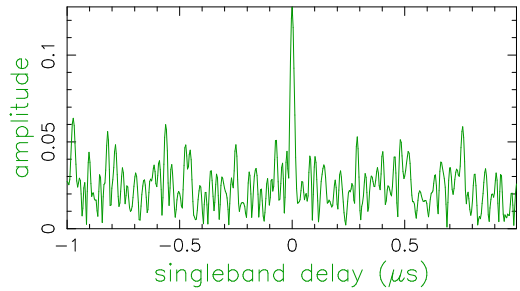
GLT - VLBA_PT, fgroup W, pol LR

multiband delay (μ s)

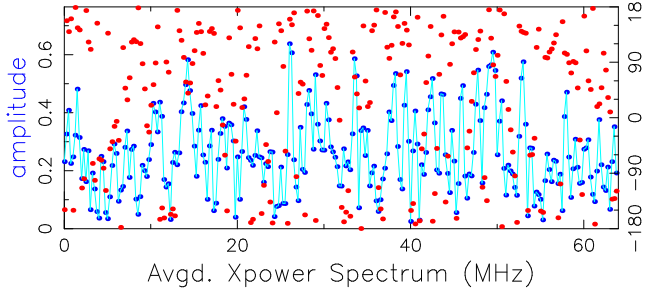


Fringe quality 0

SNR 6.6
 Int time 359.916
 Amp 0.128
 Phase 107.1
 PFD 9.7e-03
 Delays (us)
 SBD -0.000685
 MBD 0.001247
 Fringe rate (Hz)
 -0.011762
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

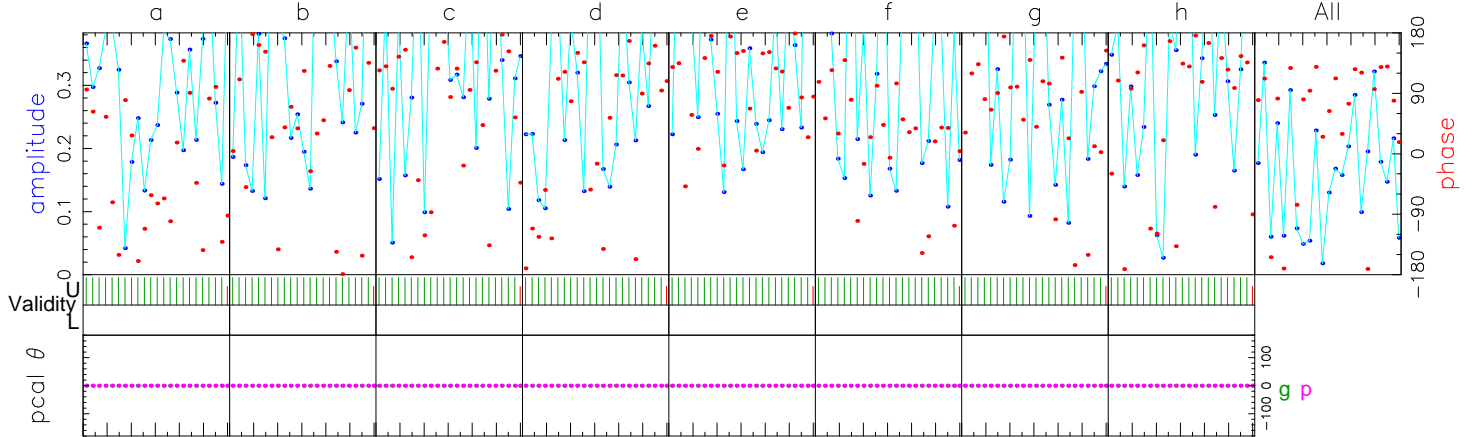


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135454
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-81.8	97.6	126.4	131.0	107.0	54.2	93.3	153.6	Phase	107.1
	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	Ampl.	0.1
	90.8	292.9	338.5	424.7	255.6	257.3	257.0	258.7	Sbd box	256.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.98133894218E+03		Apriori delay (usec)		-2.98134018961E+03		Resid mbdelay (usec)		1.24743E-03	+/- 1.6E-04
Sband delay (usec)	-2.98134087511E+03		Apriori clock (usec)		-5.1053391E+00		Resid sbdelay (usec)		-6.85500E-04	+/- 1.3E-03
Phase delay (usec)	-2.98134018616E+03		Apriori clockrate (us/s)		1.8000000E-07		Resid phdelay (usec)		3.45305E-06	+/- 5.6E-07
Delay rate (us/s)	-4.04451907843E-01		Apriori rate (us/s)		-4.04451771300E-01		Resid rate (us/s)		-1.36543E-07	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		4.69740803834E-05		Resid phase (deg)		107.1	+/- 17.3

ph/seg (deg) 59.9 41.5 Search (2048X32) 0.124 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 77.3 72.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 76.9 24.5 Inc. seg. avg. 0.130 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 52.6 42.7 Inc. frq. avg. 0.142 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 g: az 205.0 el 54.9 pa 7.2 p: az 56.9 el 72.3 pa -111.3 u,v (fr/asec) 3230.248 6004.904 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gp..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gp.W.211.1W5ADF

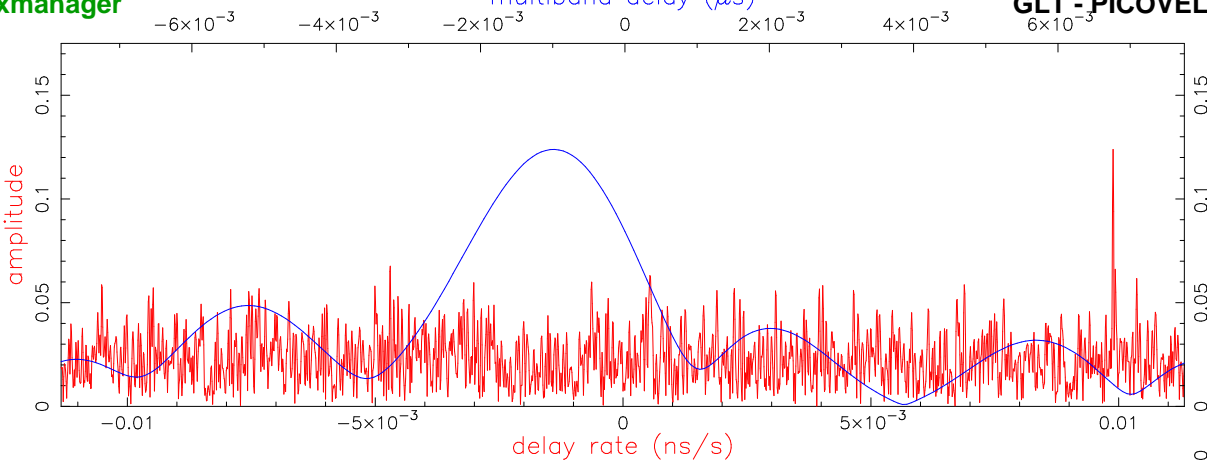
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gP

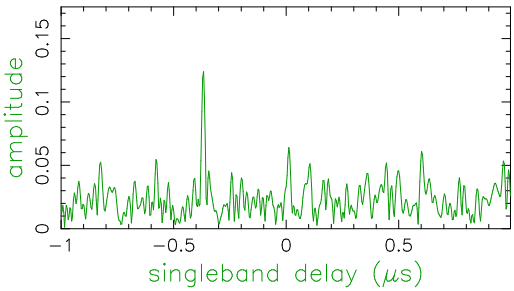
GLT - PICOVEL, fgroup W, pol RL

multiband delay (μs)

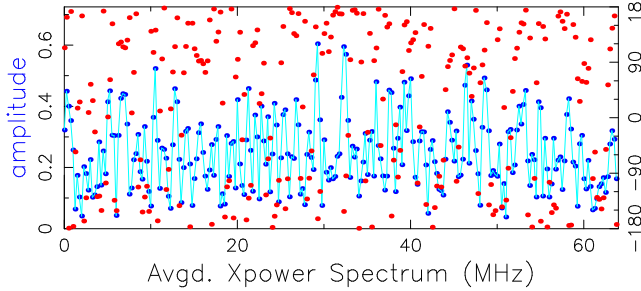


Fringe quality 0

SNR 6.5
 Int time 359.918
 Amp 0.175
 Phase -117.4
 PFD 2.4e-02
 Delays (us)
 SBD -0.368373
 MBD -0.000970
 Fringe rate (Hz)
 0.853152
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

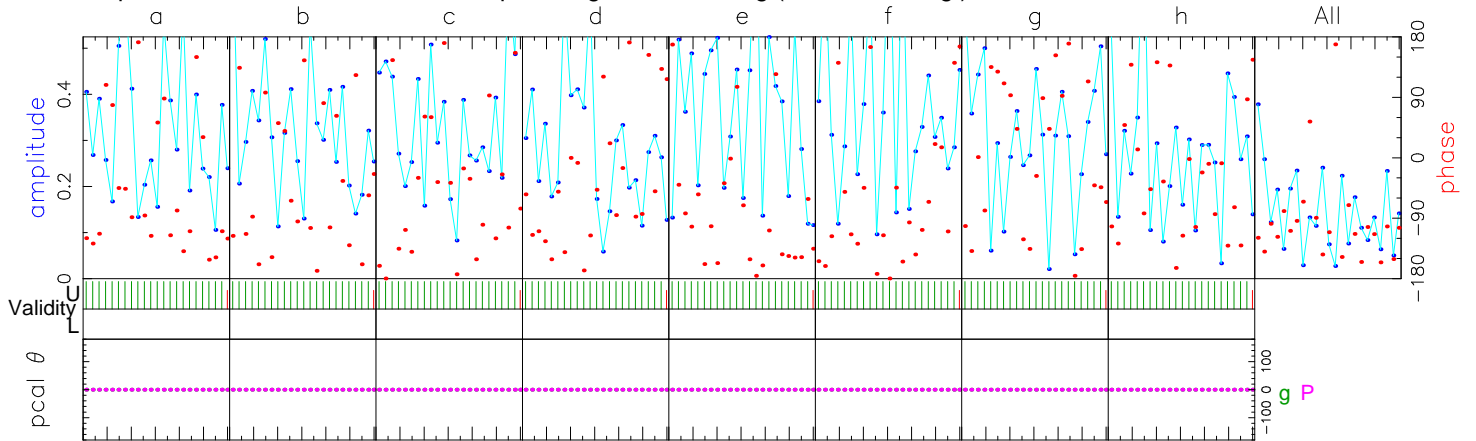


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135457
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-110.5	-111.5	-120.2	-98.4	-132.6	-138.3	-85.9	-85.8	Phase	-117.4
	0.2	0.2	0.2	0.2	0.3	0.3	0.0	0.1	Ampl.	0.2
	38.6	357.4	43.9	409.4	219.3	162.6	282.2	306.1	Sbd box	162.7
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
P/g	0	0	0	0	0	0	0	0	PC freqs	
	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
P/g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P/g	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	7.7617655093E+03		Apriori delay (usec)		7.76214147640E+03		Resid mbdelay (usec)		-9.70464E-04	+/- 1.7E-04
Sband delay (usec)	7.76177310340E+03		Apriori clock (usec)		1.3964272E+00		Resid sbdelay (usec)		-3.68373E-01	+/- 1.3E-03
Phase delay (usec)	7.76214147261E+03		Apriori clockrate (us/s)		6.6000000E-07		Resid phdelay (usec)		-3.78449E-06	+/- 5.7E-07
Delay rate (us/s)	8.20705251808E-01		Apriori rate (us/s)		8.20695347557E-01		Resid rate (us/s)		9.90425E-06	+/- 2.7E-09
Total phase (deg)	162.3		Apriori accel (us/s/s)		-1.31031340637E-05		Resid phase (deg)		-117.4	+/- 17.7

	RMS	Theor.	Amplitude	0.175 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	46.8	42.4	Search (2048X32)	0.116	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	71.3	74.0	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	22.7	25.0	Inc. seg. avg.	0.161	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	44.8	43.6	Inc. frq. avg.	0.166	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

g: az 205.0 el 54.9 pa 7.2 P: az 304.0 el 27.6 pa 64.2 u,v (fr/asec) -6383.070 1569.568 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gP..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gP.W.223.1W5ADF

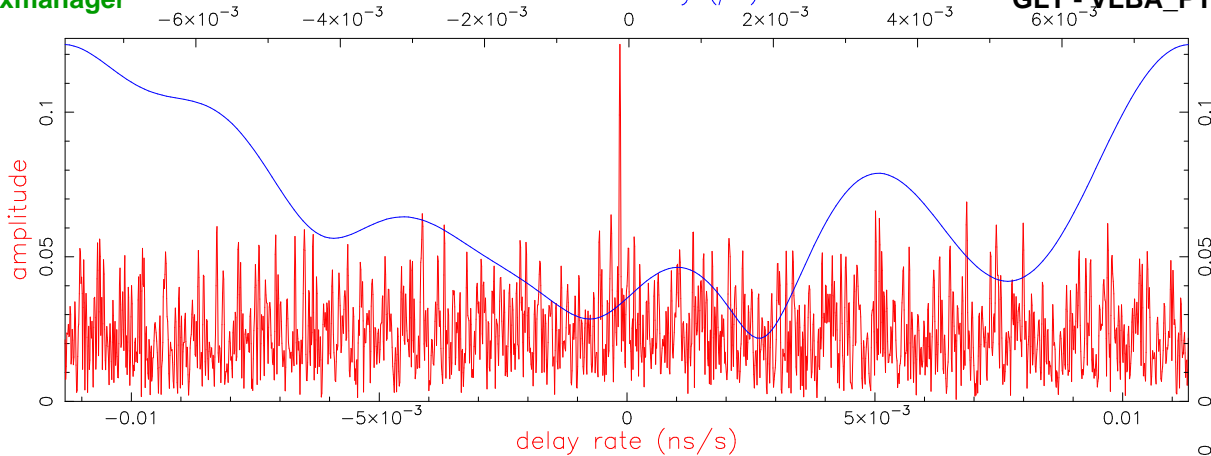
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gp

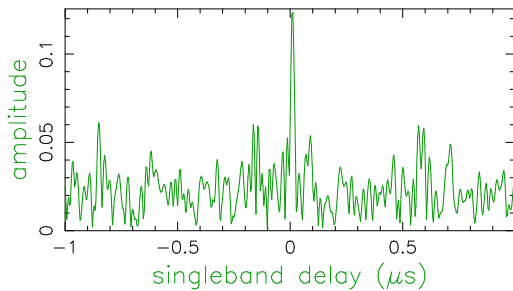
GLT - VLBA_PT, fgroup W, pol RL

multiband delay (μ s)

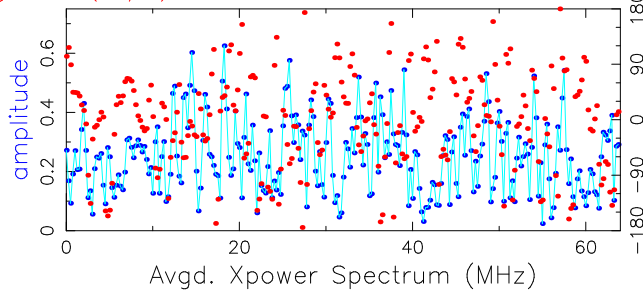


Fringe quality 0

SNR 6.5
 Int time 359.916
 Amp 0.126
 Phase -149.1
 PFD 2.0e-02
 Delays (us)
 SBD 0.009976
 MBD -0.007850
 Fringe rate (Hz)
 -0.012393
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

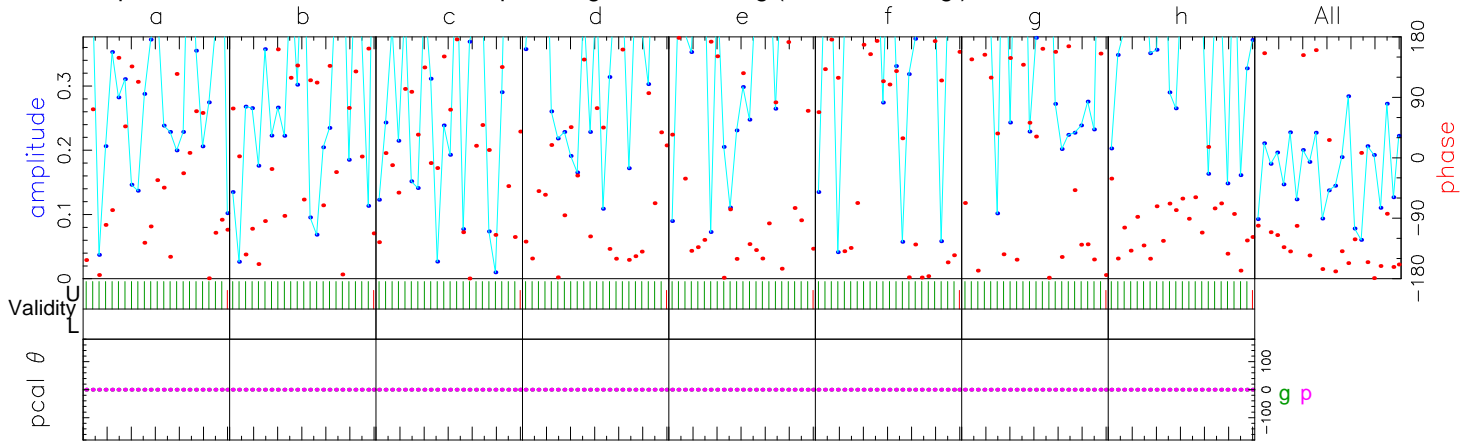


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135458
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-82.8	-148.3	47.6	-113.8	-147.4	175.6	175.4	-98.5	Phase	-149.1
	0.1	0.1	0.0	0.1	0.2	0.3	0.3	0.3	Ampl.	0.2
	326.9	317.3	301.0	348.8	258.6	258.4	258.8	261.1	Sbd box	259.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.98133241502E+03		Apriori delay (usec)		-2.98134018961E+03		Resid mbdelay (usec)		-7.85041E-03	+/- 1.7E-04
Sband delay (usec)	-2.98133021411E+03		Apriori clock (usec)		-5.1053391E+00		Resid sbdelay (usec)		9.97550E-03	+/- 1.3E-03
Phase delay (usec)	-2.98134019442E+03		Apriori clockrate (us/s)		1.8000000E-07		Resid phdelay (usec)		-4.80909E-06	+/- 5.7E-07
Delay rate (us/s)	-4.04451915172E-01		Apriori rate (us/s)		-4.04451771300E-01		Resid rate (us/s)		-1.43872E-07	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		4.69740803834E-05		Resid phase (deg)		-149.1	+/- 17.6

	RMS	Theor.	Amplitude	0.126 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	59.1	42.2	Search (2048X32)	0.123	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	58.6	73.6	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	78.9	24.9	Inc. seg. avg.	0.133	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	96.4	43.4	Inc. frq. avg.	0.155	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

g: az 205.0 el 54.9 pa 7.2 p: az 56.9 el 72.3 pa -111.3 u,v (fr/asec) 3230.248 6004.904 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gp..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gp.W.230.1W5ADF

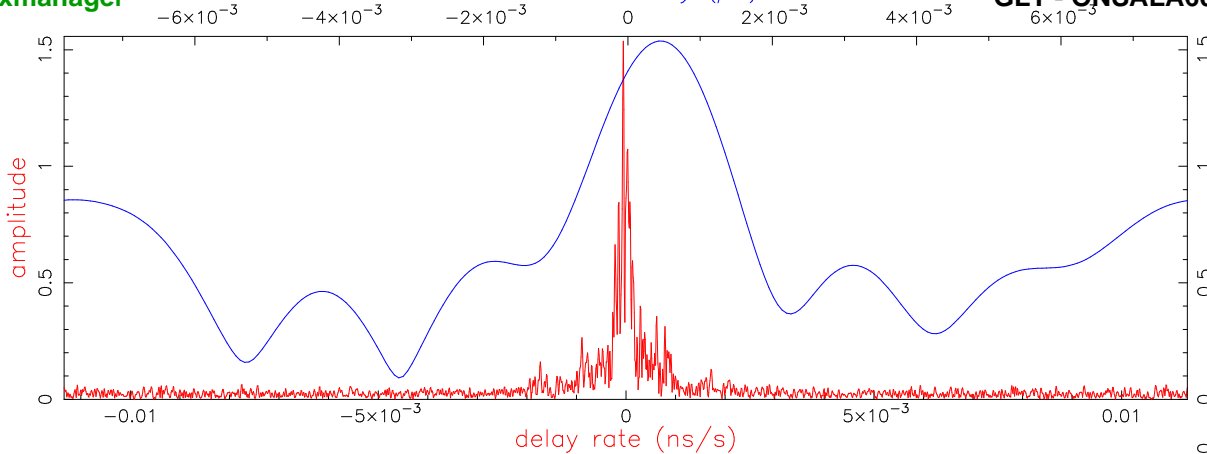
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gX

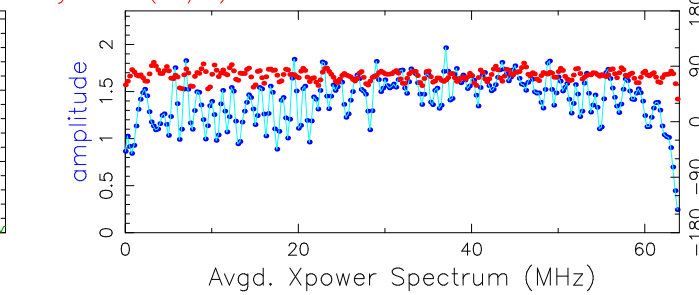
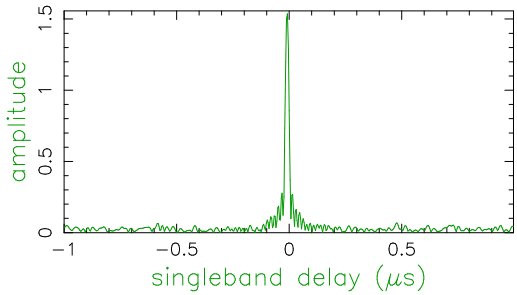
GLT - ONSALA60, fgroup W, pol LL

multiband delay (μ s)



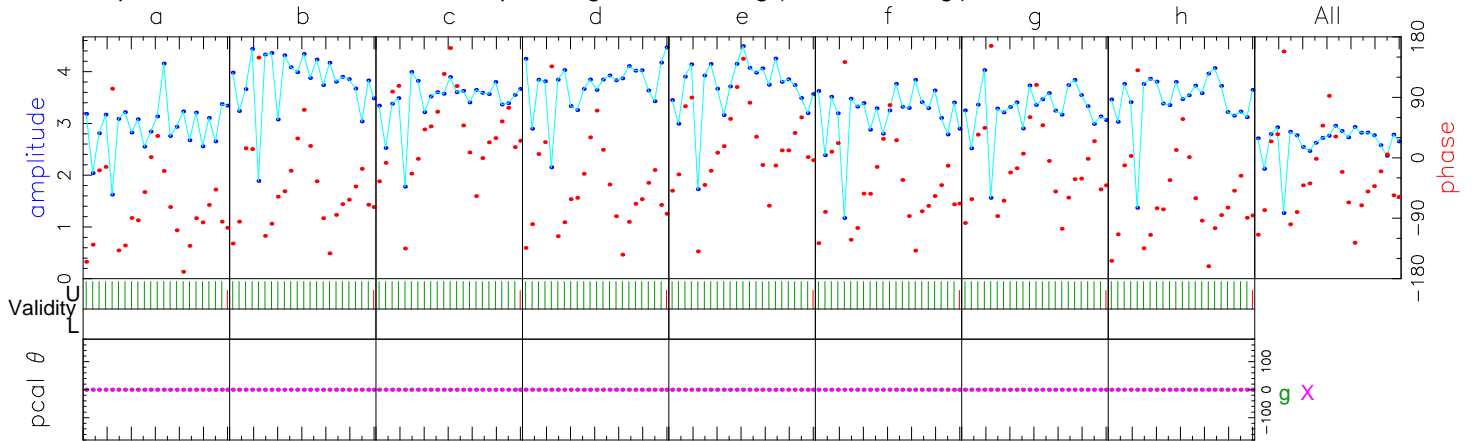
Fringe quality 2

SNR 80.8
 Int time 359.897
 Amp 1.558
 Phase -36.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.009296
 MBD 0.000409
 Fringe rate (Hz)
 -0.005058
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



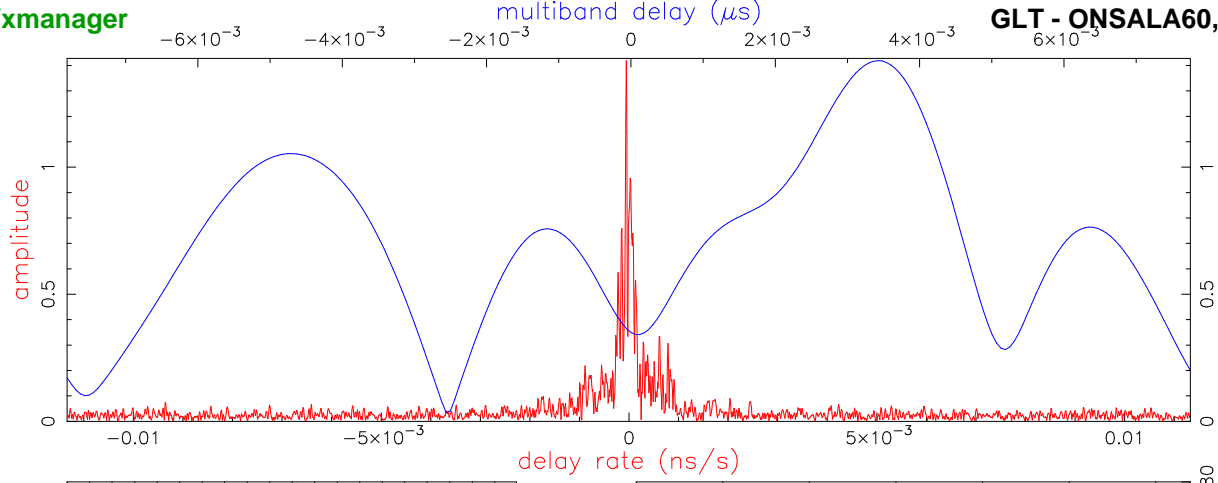
Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135446
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

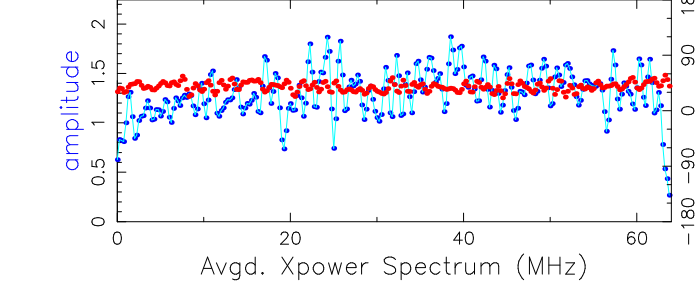
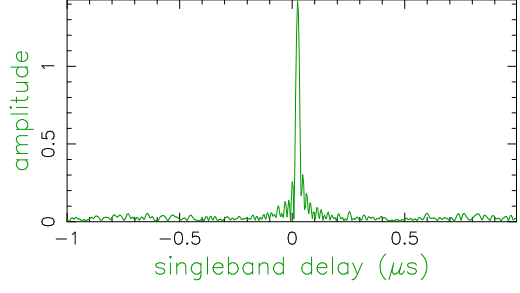


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-83.5	-54.3	38.4	-57.6	20.8	-52.9	-19.5	-71.4	Phase	-36.7
	1.7	2.2	2.0	2.2	2.2	1.8	1.9	2.0	Ampl.	2.0
	256.6	254.6	254.1	254.1	254.3	253.8	254.2	254.5	Sbd box	254.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.85422875995E+03		Apriori delay (usec)		6.85424397594E+03		Resid mbdelay (usec)		4.09019E-04	+/- 1.3E-05
Sband delay (usec)	6.85423467994E+03		Apriori clock (usec)		-5.5979523E+01		Resid sbdelay (usec)		-9.29600E-03	+/- 1.1E-04
Phase delay (usec)	6.85424397475E+03		Apriori clockrate (us/s)		-4.6799999E-07		Resid phdelay (usec)		-1.18302E-06	+/- 4.6E-08
Delay rate (us/s)	5.15418748892E-01		Apriori rate (us/s)		5.15418807614E-01		Resid rate (us/s)		-5.87224E-08	+/- 2.2E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.68089623977E-05		Resid phase (deg)		-36.7	+/- 1.4

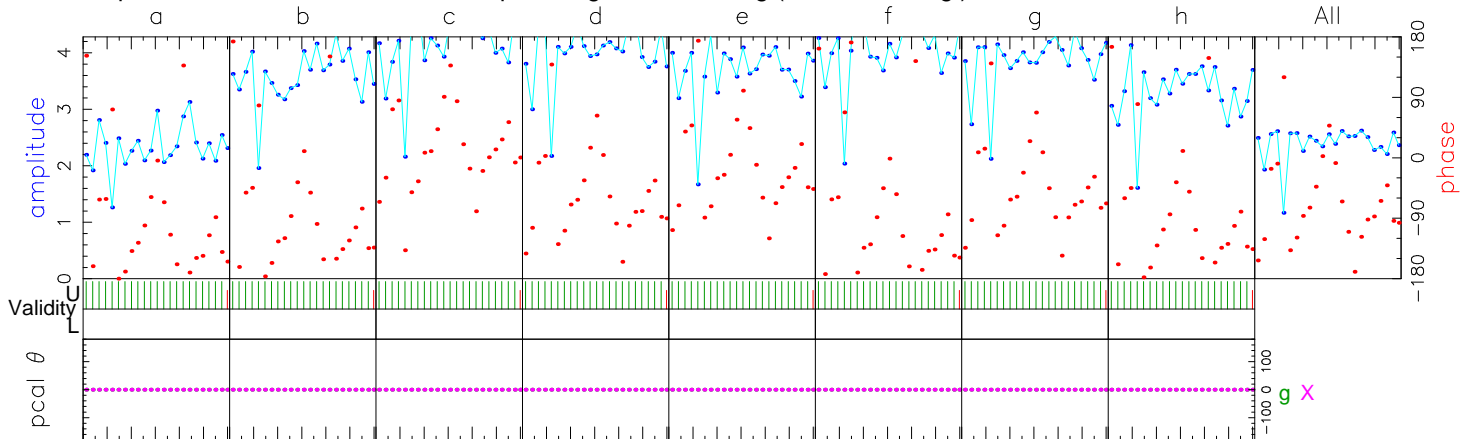
ph/seg (deg) 63.9 3.4 Search (2048X32) 1.507 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 73.4 5.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 47.7 2.0 Inc. seg. avg. 2.640 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 31.0 3.5 Inc. frq. avg. 2.014 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 g: az 205.0 el 54.9 pa 7.2 X: az 302.8 el 30.0 pa 37.6 u,v (fr/asec) -4045.971 -1012.550 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gX..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gX.W.170.1W5ADF



Fringe quality 1
SNR 74.1
Int time 359.897
Amp 1.428
Phase -79.2
PFD 0.0e+00
Delays (us)
SBD 0.024463
MBD 0.003463
Fringe rate (Hz)
-0.005070
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 134500.00
Stop 135059.94
FRT 134800.00
Corr/FF/build
2021:286:102153
2021:286:135450
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-131.2	-118.2	10.8	-67.5	-28.6	-130.3	-57.3	-117.2	Phase	-79.2
	1.4	2.1	2.5	2.4	2.1	2.4	2.3	1.9	Ampl.	2.1
	264.8	263.8	263.2	262.7	262.5	262.9	263.0	263.1	Sbd box	263.3
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.85426306424E+03		Apriori delay (usec)		6.85424397594E+03		Resid mbdelay (usec)		3.46330E-03	+/- 1.5E-05
Sband delay (usec)	6.85426843894E+03		Apriori clock (usec)		-5.5979523E+01		Resid sbdelay (usec)		2.44630E-02	+/- 1.2E-04
Phase delay (usec)	6.85424397338E+03		Apriori clockrate (us/s)		-4.6799999E-07		Resid phdelay (usec)		-2.55376E-06	+/- 5.0E-08
Delay rate (us/s)	5.15418748762E-01		Apriori rate (us/s)		5.15418807614E-01		Resid rate (us/s)		-5.88528E-08	+/- 2.4E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.68089623977E-05		Resid phase (deg)		-79.2	+/- 1.5

ph/seg (deg) 62.8 3.7 Search (2048X32) 1.389 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 70.9 6.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 57.1 2.2 Inc. seg. avg. 2.387 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 55.0 3.8 Inc. frq. avg. 2.134 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
g: az 205.0 el 54.9 pa 7.2 X: az 302.8 el 30.0 pa 37.6 u,v (fr/asec) -4045.971 -1012.550 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gX..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gX.W.184.1W5ADF simultaneous interpolator

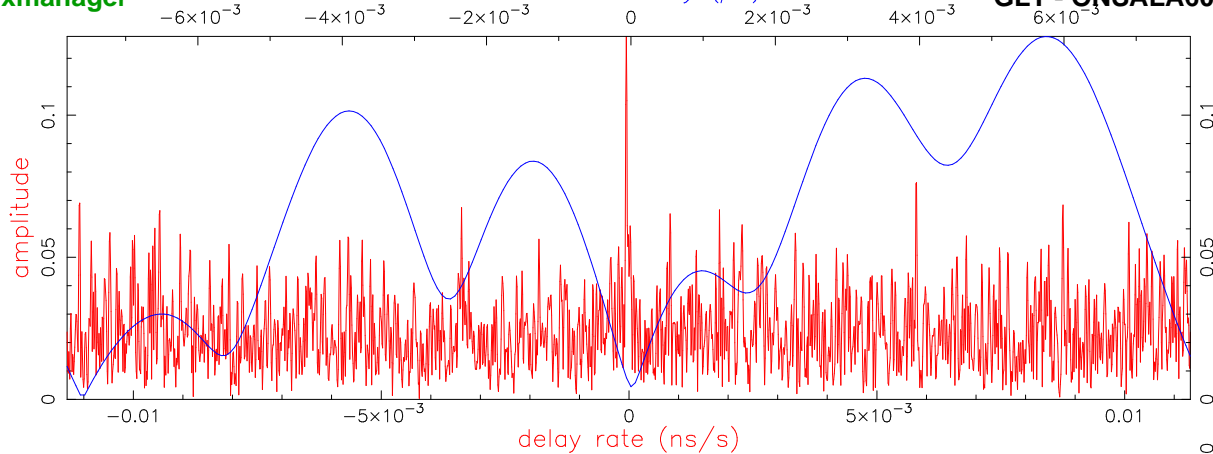
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gX

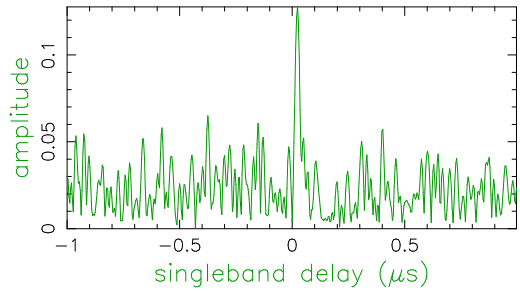
GLT - ONSALA60, fgroup W, pol LR

multiband delay (μ s)

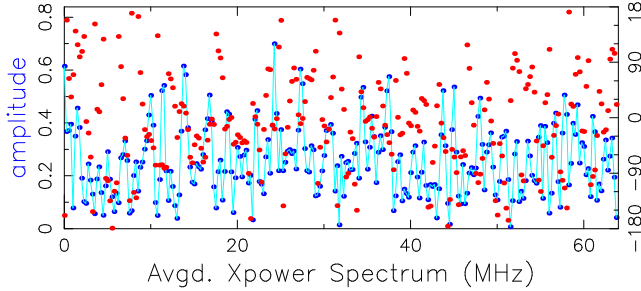


Fringe quality 0

SNR 6.6
 Int time 359.897
 Amp 0.128
 Phase -171.8
 PFD 1.0e-02
 Delays (us)
 SBD 0.023119
 MBD 0.005745
 Fringe rate (Hz)
 -0.004641
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

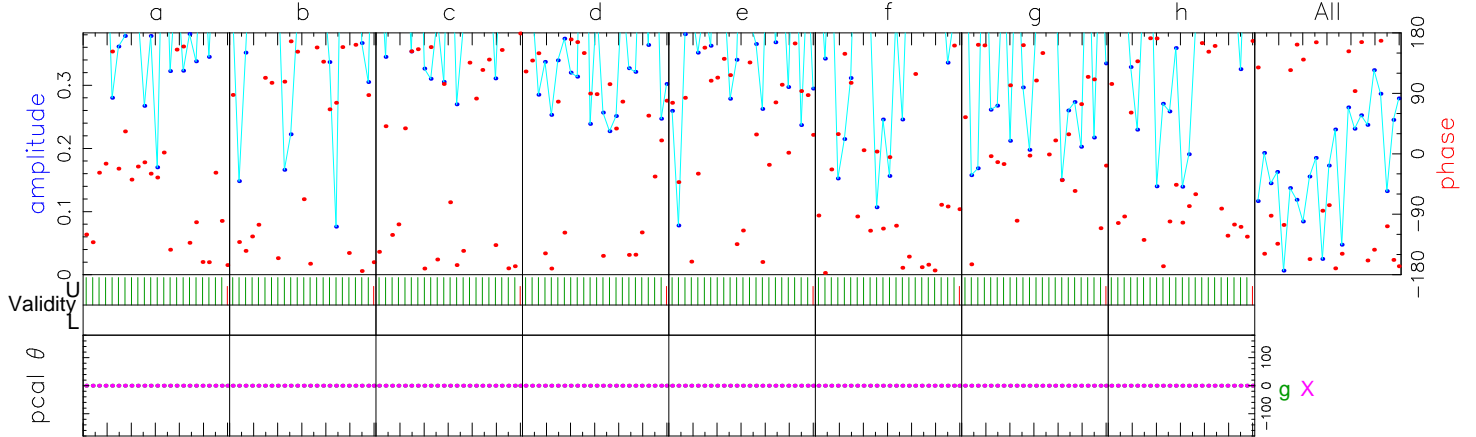


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134500.00
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135453
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-80.8	174.6	-178.8	144.2	115.1	-132.3	64.0	-141.7	Phase	-171.8
	0.2	0.3	0.3	0.1	0.2	0.2	0.1	0.2	Ampl.	0.2
	262.3	263.1	262.7	358.8	212.6	261.2	18.8	262.9	Sbd box	262.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	6.85426534608E+03	Apriori delay (usec)	6.85424397594E+03	Resid mbdelay (usec)	5.74514E-03	+/-	1.6E-04
Sband delay (usec)	6.85426709519E+03	Apriori clock (usec)	-5.5979523E+01	Resid sbdelay (usec)	2.31193E-02	+/-	1.3E-03
Phase delay (usec)	6.85424397040E+03	Apriori clockrate (us/s)	-4.6799999E-07	Resid phdelay (usec)	-5.53912E-06	+/-	5.6E-07
Delay rate (us/s)	5.15418753741E-01	Apriori rate (us/s)	5.15418807614E-01	Resid rate (us/s)	-5.38738E-08	+/-	2.7E-09
Total phase (deg)	-140.4	Apriori accel (us/s/s)	-2.68089623977E-05	Resid phase (deg)	-171.8	+/-	17.3

ph/seg (deg)	50.4	Theor.	41.5	Amplitude	0.128 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	74.7	Search (2048X32)	0.126	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	74.9	Inc. seg. avg.	0.138	Inc. frq. avg.	0.177	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	75.2	Inc. frq. avg.	0.177			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

g: az 205.0 el 54.9 pa 7.2 X: az 302.8 el 30.0 pa 37.6 u,v (fr/asec) -4045.971 -1012.550 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gX..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gX.W.203.1W5ADF

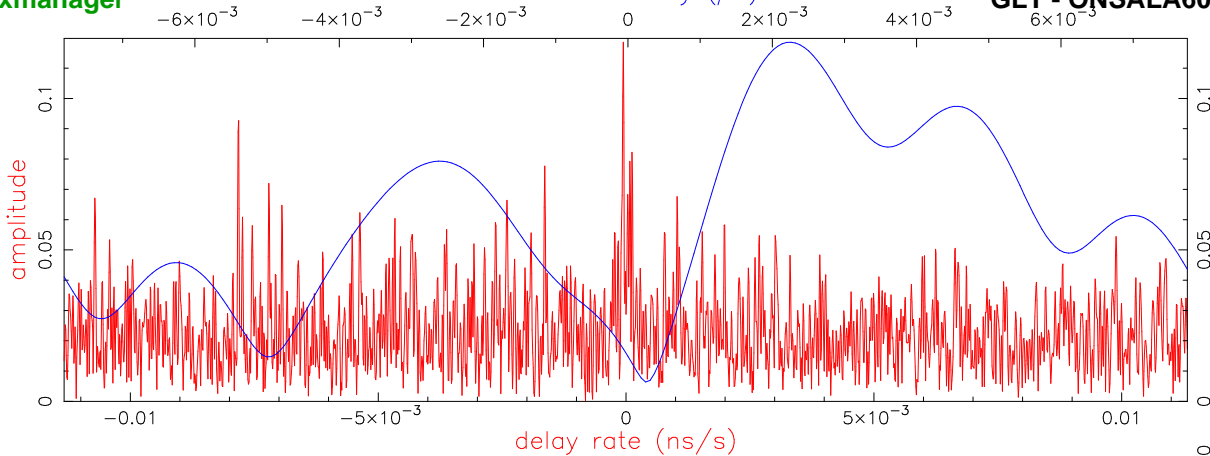
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gX

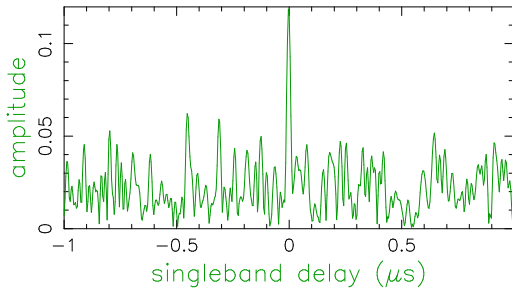
GLT - ONSALA60, fgroup W, pol RL

multiband delay (μ s)

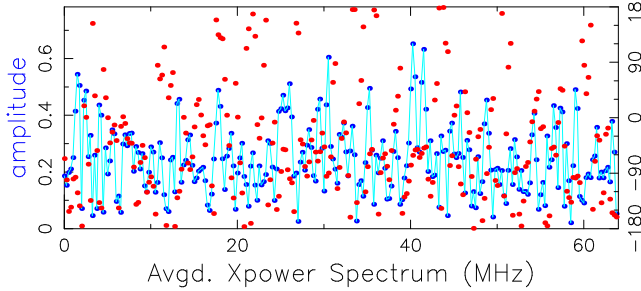


Fringe quality 0

SNR 6.2
 Int time 359.897
 Amp 0.120
 Phase -130.8
 PFD 1.3e-01
 Delays (us)
 SBD -0.002569
 MBD 0.002246
 Fringe rate (Hz)
 -0.004898
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

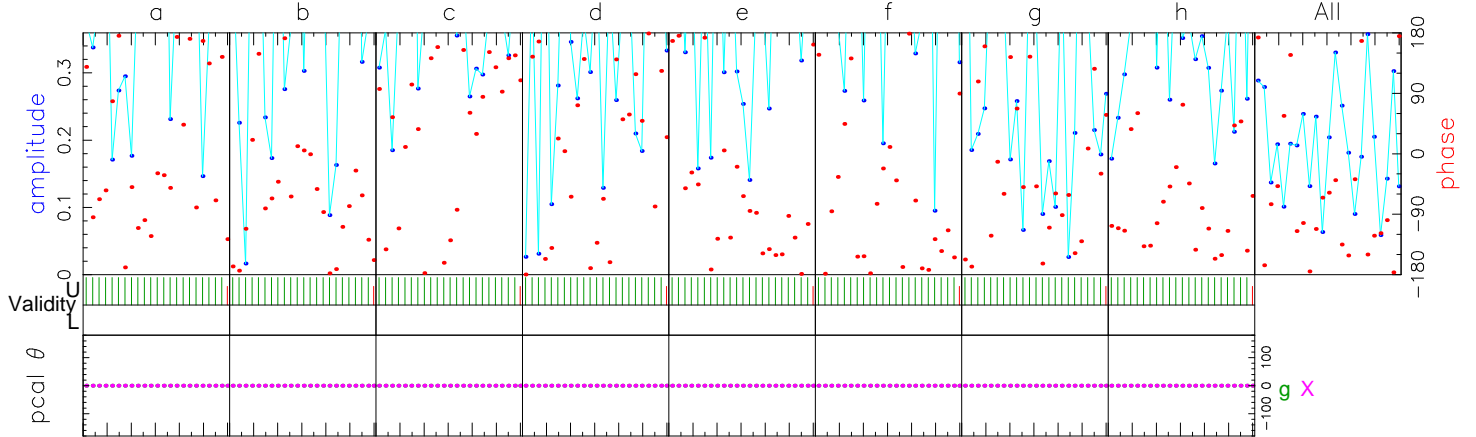


delay rate (ns/s)



Exp. c211a
 Yr:day 16383
 Start 2021:114
 Stop 2021:114
 FRT 134500.00
 Corr/FF/build
 2021:286:102153
 2021:286:135456
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-106.2	-61.4	139.0	153.5	-128.7	-146.6	-122.9	-91.8	Phase	-130.8
	0.1	0.2	0.2	0.1	0.3	0.3	0.1	0.2	Ampl.	0.2
	259.1	257.3	255.5	466.3	255.6	255.9	115.6	256.8	Sbd box	256.3
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	6.85424622158E+03	Apriori delay (usec)	6.85424397594E+03	Resid mbdelay (usec)	2.24564E-03	+/-	1.7E-04
Sband delay (usec)	6.85424140694E+03	Apriori clock (usec)	-5.5979523E+01	Resid sbdelay (usec)	-2.56900E-03	+/-	1.4E-03
Phase delay (usec)	6.85424397172E+03	Apriori clockrate (us/s)	-4.6799999E-07	Resid phdelay (usec)	-4.21758E-06	+/-	5.9E-07
Delay rate (us/s)	5.15418750757E-01	Apriori rate (us/s)	5.15418807614E-01	Resid rate (us/s)	-5.68575E-08	+/-	2.9E-09
Total phase (deg)	-99.4	Apriori accel (us/s/s)	-2.68089623977E-05	Resid phase (deg)	-130.8	+/-	18.4

ph/seg (deg)	63.3	Theor.	44.2	Amplitude	0.120 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	92.6		77.1	Search (2048X32)	0.116	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	59.4		26.1	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
amp/frq (%)	69.5		45.5	Inc. seg. avg.	0.151	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	0.159	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

g: az 205.0 el 54.9 pa 7.2 X: az 302.8 el 30.0 pa 37.6 u,v (fr/asec) -4045.971 -1012.550 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gX..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gX.W.221.1W5ADF

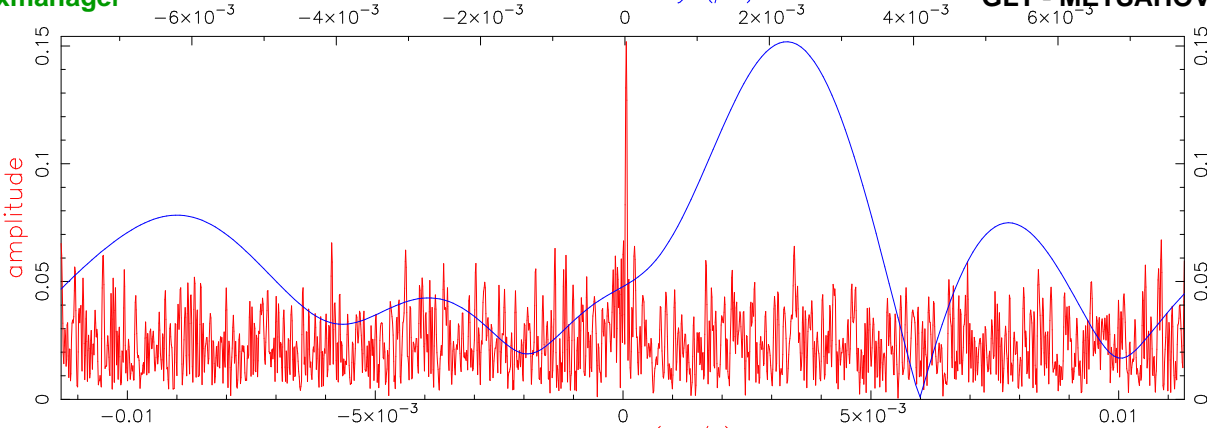
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gZ

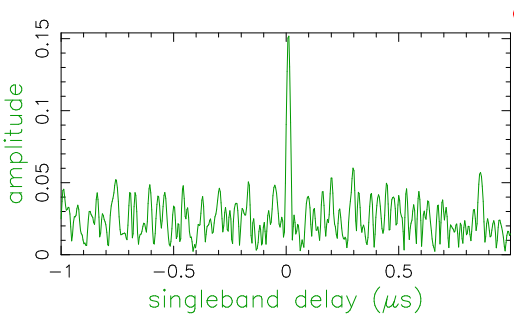
GLT - METSAHOV, fgroup W, pol LL

multiband delay (μ s)

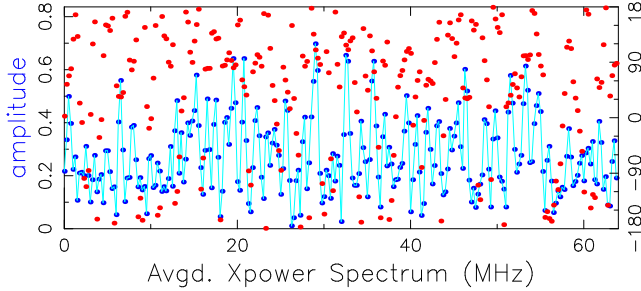


Fringe quality 9

SNR 7.8
 Int time 345.796
 Amp 0.154
 Phase -170.1
 PFD 1.6e-06
 Delays (us)
 SBD 0.010010
 MBD 0.002218
 Fringe rate (Hz)
 0.006086
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

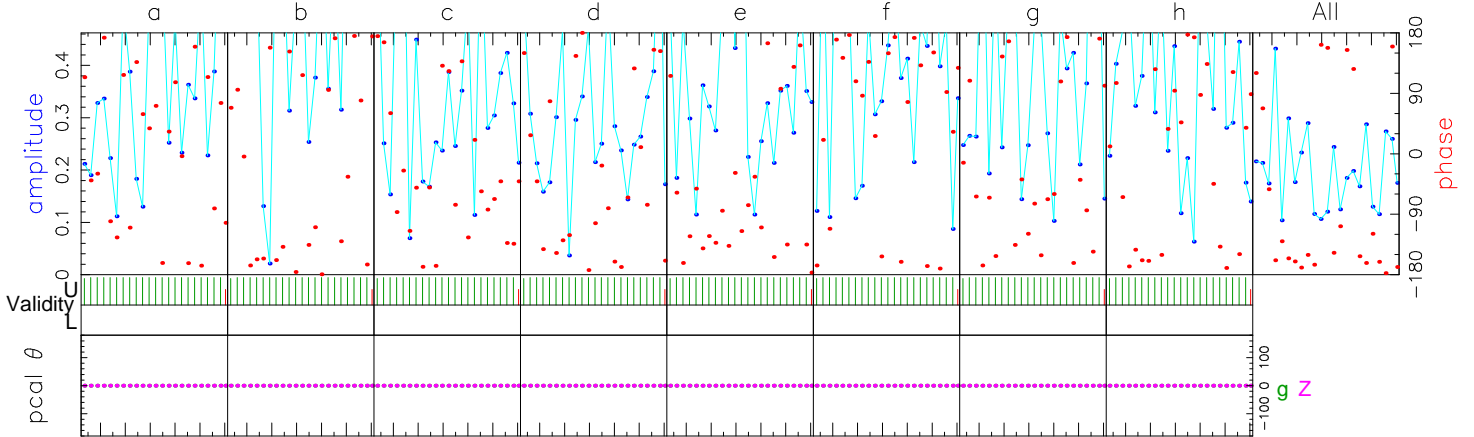


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134513.31
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135445
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 30 APs / seg (15.36 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	677/0	677/0	677/0	677/0	677/0	677/0	677/0	677/0		
g:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	8.04543294595E+03	Apriori delay (usec)	8.04543072815E+03	Resid mbdelay (usec)	2.21781E-03	+/-	1.4E-04
Sband delay (usec)	8.04544073840E+03	Apriori clock (usec)	1.1445599E+00	Resid sbdelay (usec)	1.00102E-02	+/-	1.1E-03
Phase delay (usec)	8.04543072266E+03	Apriori clockrate (us/s)	4.4000001E-08	Resid phdelay (usec)	-5.48532E-06	+/-	4.7E-07
Delay rate (us/s)	4.31578232558E-01	Apriori rate (us/s)	4.31578161910E-01	Resid rate (us/s)	7.06482E-08	+/-	2.4E-09
Total phase (deg)	162.1	Apriori accel (us/s/s)	-3.47856230439E-05	Resid phase (deg)	-170.1	+/-	14.6

ph/seg (deg)	47.8	Theor.	35.1	Amplitude	0.154 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	60.5	Search (2048X32)	0.146	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	45.6	Inc. seg. avg.	0.171	Inc. frq. avg.	0.175	Bits/sample: 2x2	mb window (us) -0.008 0.008
amp/frq (%)	44.1	Inc. frq. avg.	0.175			Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

g: az 205.0 el 54.9 pa 7.2 Z: az 310.2 el 26.5 pa 31.4 u,v (fr/asec) -3411.967 -1760.082 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gz..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gz.W.167.1W5ADF

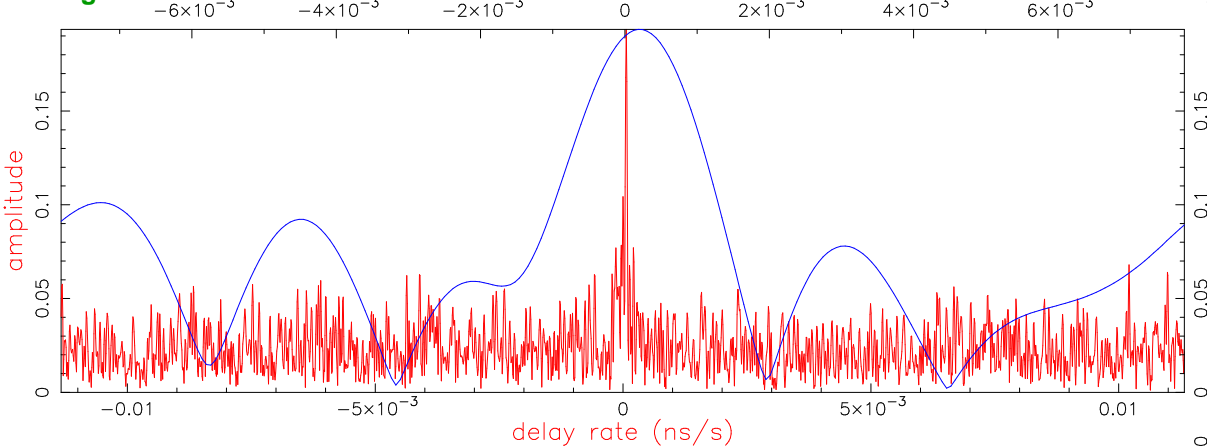
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gZ

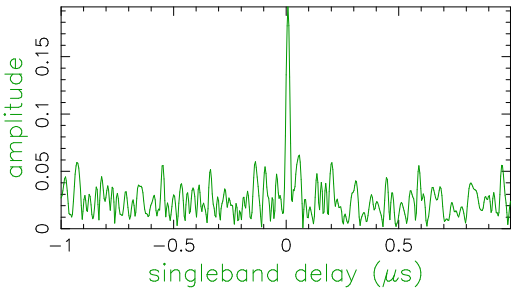
GLT - METSAHOV, fgroup W, pol RR

multiband delay (μ s)

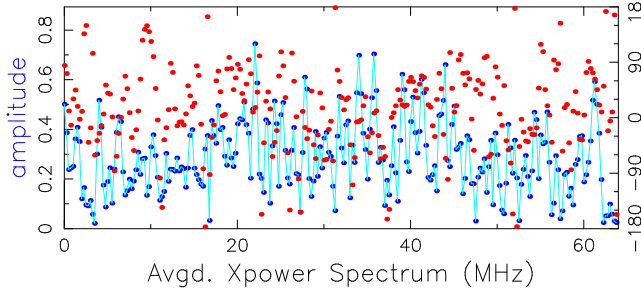


Fringe quality 9

SNR 9.8
 Int time 345.796
 Amp 0.194
 Phase 110.3
 PFD 3.2e-14
 Delays (us)
 SBD 0.007835
 MBD 0.000203
 Fringe rate (Hz) 0.006111
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

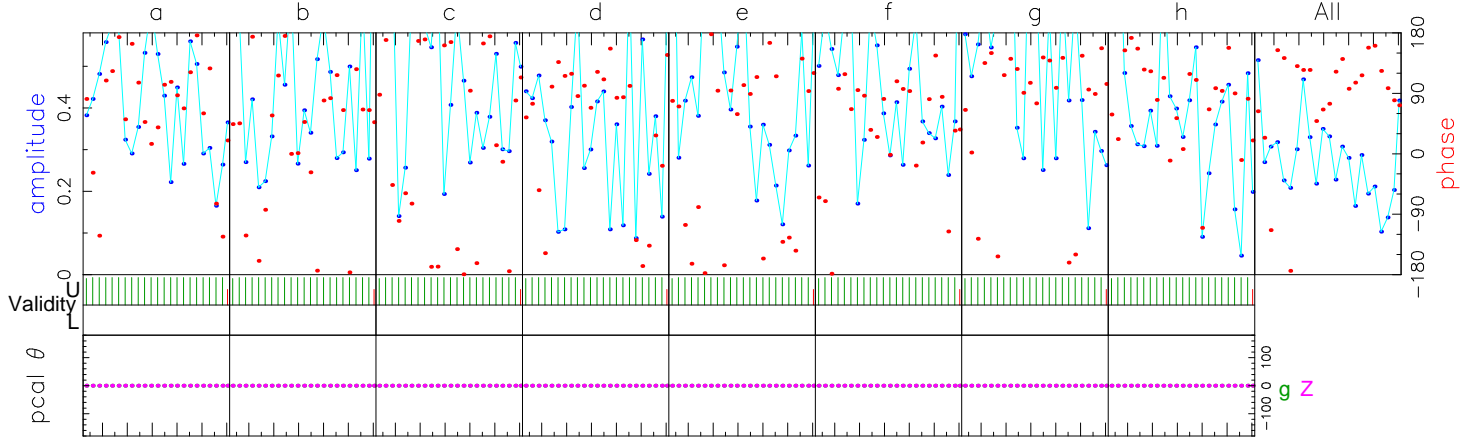


delay rate (ns/s)



Exp. c211a
 Exper # 16383
 Yr:day 2021:114
 Start 134513.31
 Stop 135059.94
 FRT 134800.00
 Corr/FF/build
 2021:286:102153
 2021:286:135450
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 30 APs / seg (15.36 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	677/0	677/0	677/0	677/0	677/0	677/0	677/0	677/0		
g:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	8.04543093092E+03	Apriori delay (usec)	8.04543072815E+03	Resid mbdelay (usec)	2.02774E-04	+/-	1.1E-04
Sband delay (usec)	8.04543856365E+03	Apriori clock (usec)	1.1445599E+00	Resid sbdelay (usec)	7.83550E-03	+/-	8.8E-04
Phase delay (usec)	8.04543073170E+03	Apriori clockrate (us/s)	4.4000001E-08	Resid phdelay (usec)	3.55599E-06	+/-	3.8E-07
Delay rate (us/s)	4.31578232850E-01	Apriori rate (us/s)	4.31578161910E-01	Resid rate (us/s)	7.09394E-08	+/-	1.9E-09
Total phase (deg)		Apriori accel (us/s/s)	-3.47856230439E-05	Resid phase (deg)	110.3	+/-	11.6

ph/seg (deg)	48.5	RMS	27.9	Theor.	48.5	Amplitude	0.194 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	65.1	Search (2048X32)	0.186	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	41.3	Inc. seg. avg.	0.245	Inc. frq. avg.	0.224	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	32.5	Inc. frq. avg.	0.224	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

g: az 205.0 el 54.9 pa 7.2 Z: az 310.2 el 26.5 pa 31.4 u,v (fr/asec) -3411.967 -1760.082 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gZ..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gZ.W.188.1W5ADF

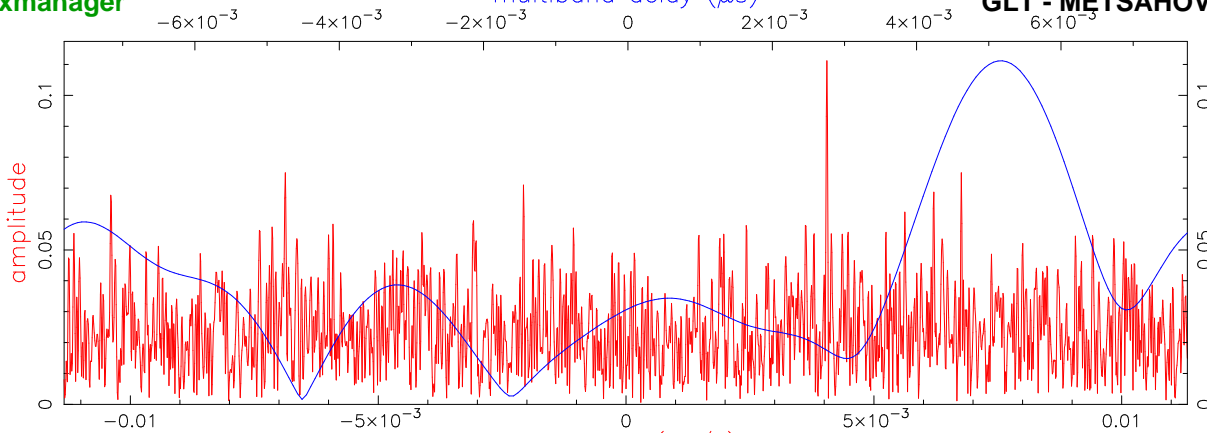
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gZ

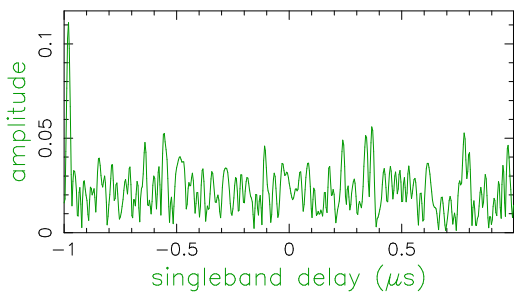
GLT - METSAHOV, fgroup W, pol LR

multiband delay (μ s)

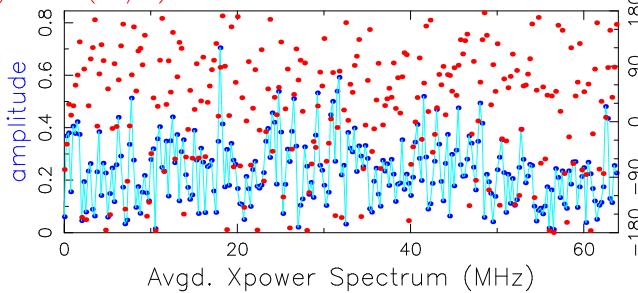


Fringe quality 0

SNR 5.7
 Int time 345.796
 Amp 0.117
 Phase -138.5
 PFD 9.7e-01
 Delays (us)
 SBD -0.980955
 MBD 0.005152
 Fringe rate (Hz)
 0.349943
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

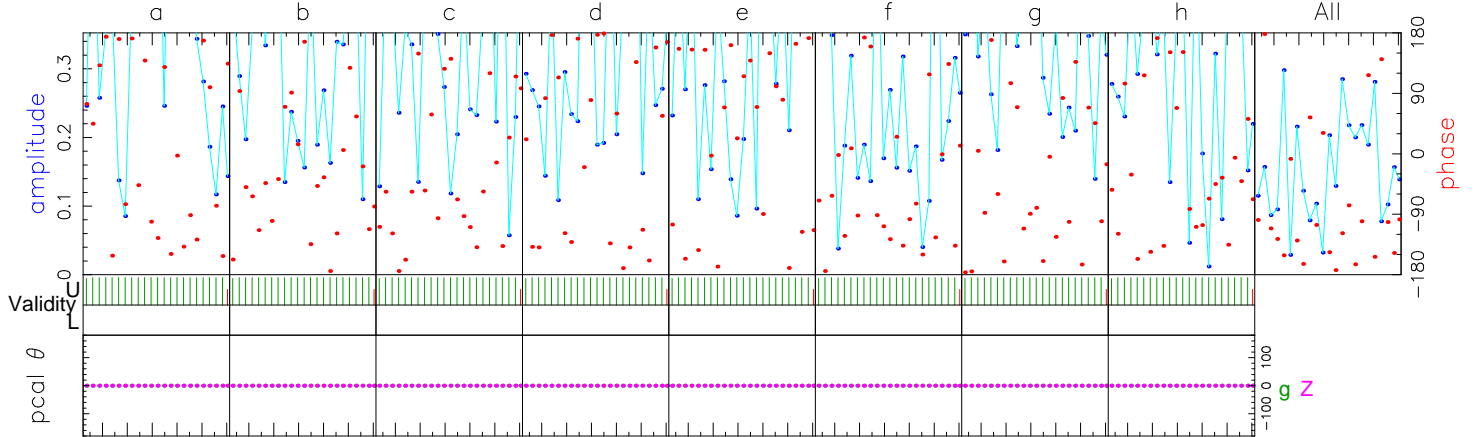


delay rate (ns/s)



Exp. c211a
 Yr:day 16383
 Start 2021:114
 Stop 2021:114
 FRT 134513.31
 Corr/FF/build
 2021:286:102153
 2021:286:135454
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 30 APs / seg (15.36 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-151.2	-83.4	-113.9	-175.5	-179.4	-110.3	-136.3	-116.6	Phase	-138.5
	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	Ampl.	0.1
	8.4	251.1	114.0	270.1	499.3	83.9	182.2	317.9	Sbd box	5.9
U/L	677/0	677/0	677/0	677/0	677/0	677/0	677/0	677/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) 8.04445150560E+03 Apriori delay (usec) 8.04543072815E+03 Resid mbdelay (usec) 5.15245E-03 +/- 1.9E-04
 Sband delay (usec) 8.04444977365E+03 Apriori clock (usec) 0.110 Pcal rate: 0.000E+00, 0.000E+00 (us/s) Resid sbdelay (usec) -9.80955E-01 +/- 1.5E-03
 Phase delay (usec) 8.04543072368E+03 Apriori clockrate (us/s) 4.4000001E-08 Resid phdelay (usec) -4.46520E-06 +/- 6.5E-07
 Delay rate (us/s) 4.31582224405E-01 Apriori rate (us/s) 4.31578161910E-01 Resid rate (us/s) 4.06250E-06 +/- 3.3E-09
 Total phase (deg) 193.7 Apriori accel (us/s/s) -3.47856230439E-05 Resid phase (deg) -138.5 +/- 20.2

RMS Theor. Amplitude 0.117 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 69.2 48.5 Search (2048X32) 0.110 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 78.2 84.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 36.8 28.6 Inc. seg. avg. 0.120 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 33.4 49.9 Inc. frq. avg. 0.123 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 g: az 205.0 el 54.9 pa 7.2 Z: az 310.2 el 26.5 pa 31.4 u,v (fr/asec) -3411.967 -1760.082 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211a/v2/1234/No0245/gZ..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gZ.W.210.1W5ADF

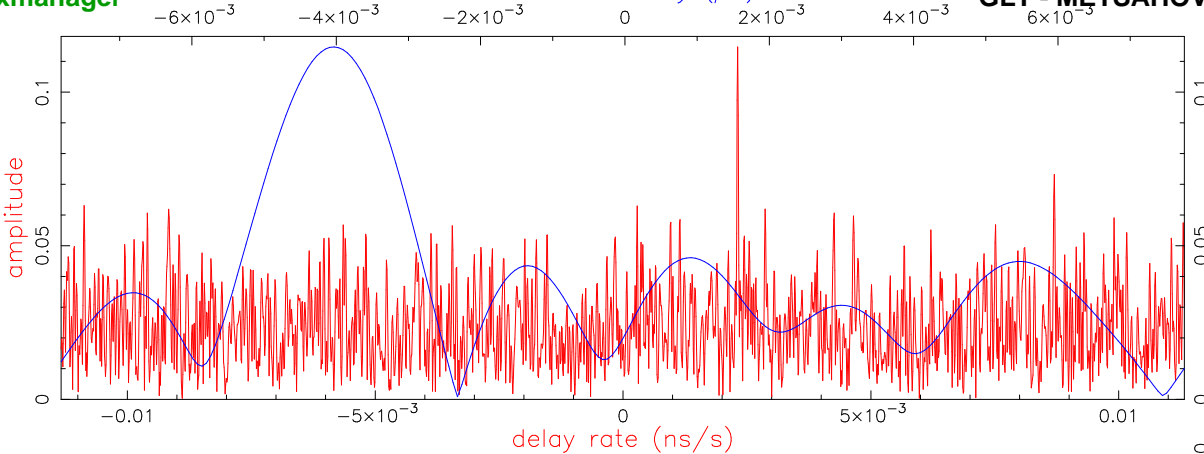
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

BLLAC.1W5ADF, No0245, gZ

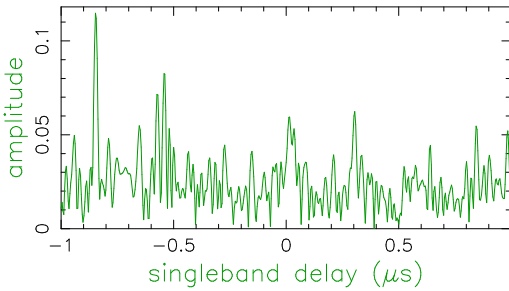
GLT - METSAHOV, fgroup W, pol RL

multiband delay (μs)

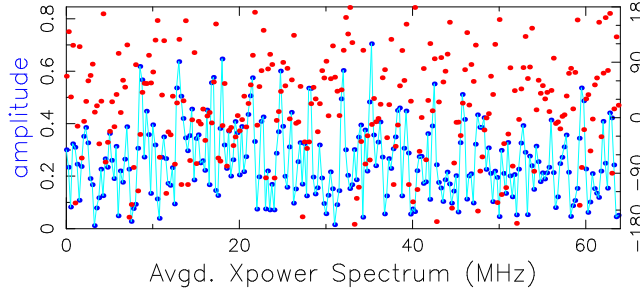


Fringe quality 0

SNR 5.9
Int time 345.796
Amp 0.118
Phase 40.7
PFD 5.9e-01
Delays (us)
SBD -0.846223
MBD -0.004028
Fringe rate (Hz)
0.199676
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

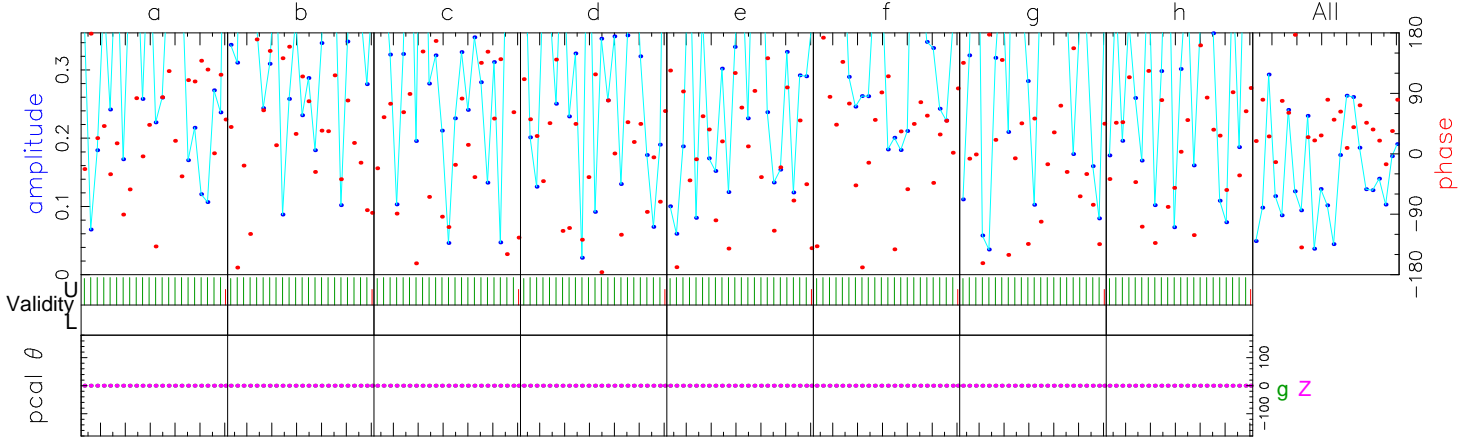


delay rate (ns/s)



Exp. c211a
Exper # 16383
Yr:day 2021:114
Start 134513.31
Stop 135059.94
FRT 134800.00
Corr/FF/build
2021:286:102153
2021:286:135457
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 30 APs / seg (15.36 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	677/0	677/0	677/0	677/0	677/0	677/0	677/0	677/0		
g:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	8.04458294975E+03	Apriori delay (usec)	8.04543072815E+03	Resid mbdelay (usec)	-4.02840E-03	+/-	1.8E-04
Sband delay (usec)	8.04458450465E+03	Apriori clock (usec)	1.1445599E+00	Resid sbdelay (usec)	-8.46223E-01	+/-	1.5E-03
Phase delay (usec)	8.04543072946E+03	Apriori clockrate (us/s)	4.4000001E-08	Resid phdelay (usec)	1.31115E-06	+/-	6.3E-07
Delay rate (us/s)	4.31580479956E-01	Apriori rate (us/s)	4.31578161910E-01	Resid rate (us/s)	2.31805E-06	+/-	3.1E-09
Total phase (deg)	12.8	Apriori accel (us/s/s)	-3.47856230439E-05	Resid phase (deg)	40.7	+/-	19.4

ph/seg (deg)	54.8	Theor.	46.5	Amplitude	0.118 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	66.9	Search (2048X32)	0.112	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	29.3	Inc. seg. avg.	0.112	Inc. frq. avg.	0.116	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	26.1	Inc. frq. avg.	0.116			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
g: az 205.0 el 54.9 pa 7.2		Z: az 310.2 el 26.5 pa 31.4		u, v (fr/asec)	-3411.967 -1760.082	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/c211a/v2/1234/No0245/gz..1W5ADF Output file: /Exps/c211a/v2/1234/No0245/gz.W.228.1W5ADF simultaneous interpolator