

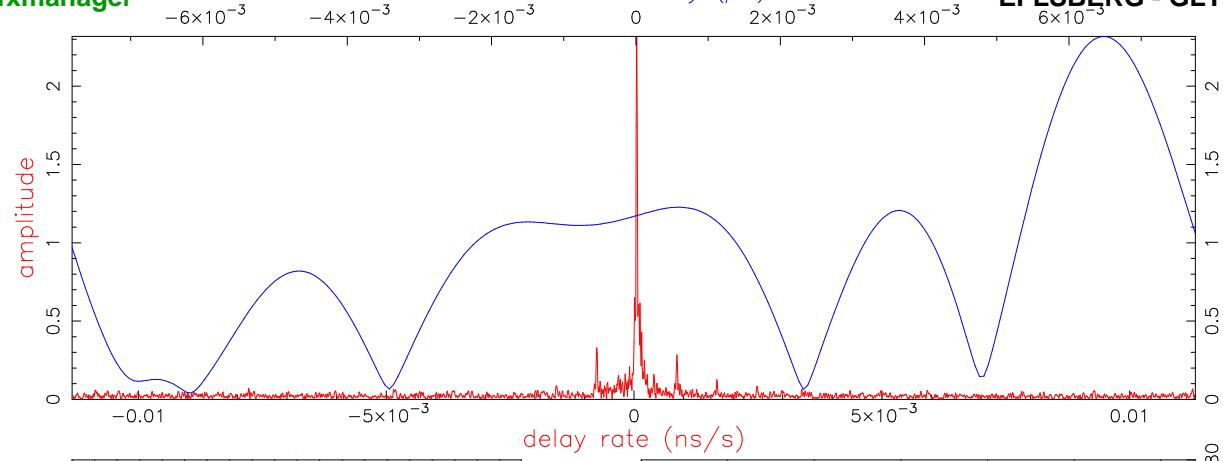
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W5T8S, No0182, Bg

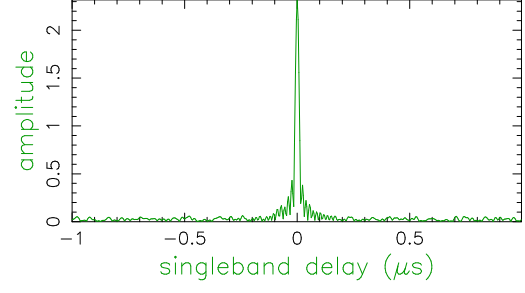
EFLSBERG - GLT, fgroup W, pol LL

multiband delay ( $\mu$ s)

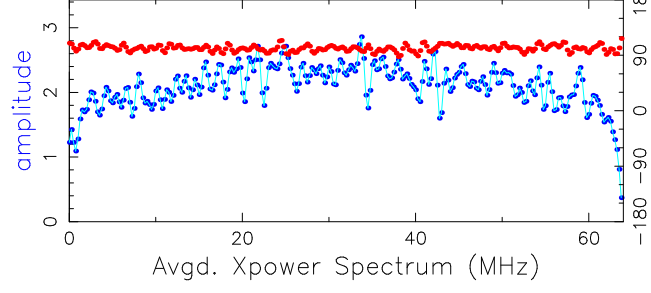


Fringe quality 5

SNR 129.9  
 Int time 419.819  
 Amp 2.318  
 Phase 26.8  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.000004  
 MBD 0.006482  
 Fringe rate (Hz)  
 0.004328  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



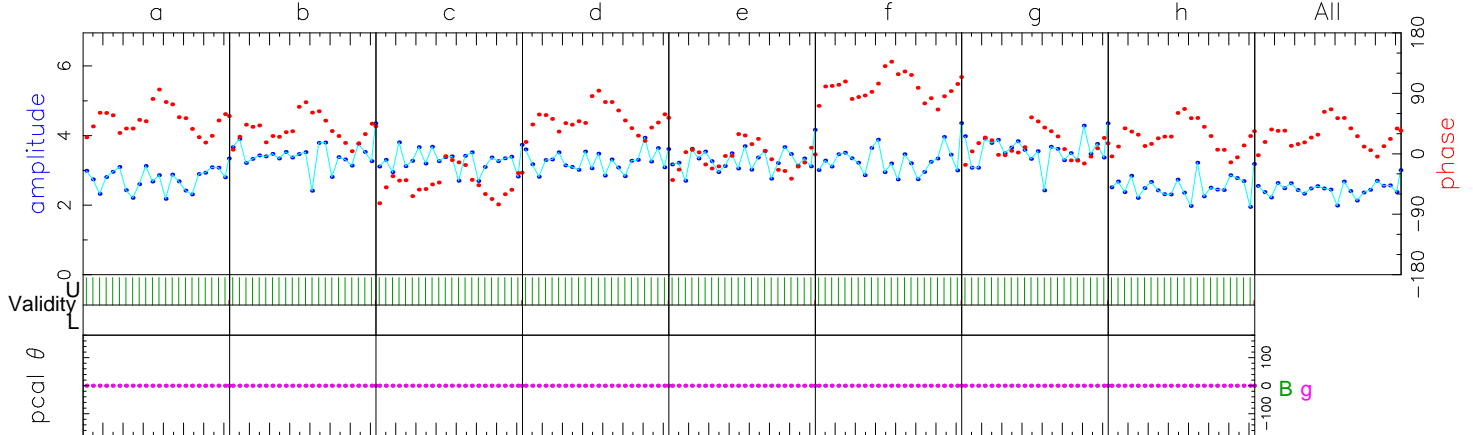
singleband delay ( $\mu$ s)



Avgd. Xpower Spectrum (MHz)

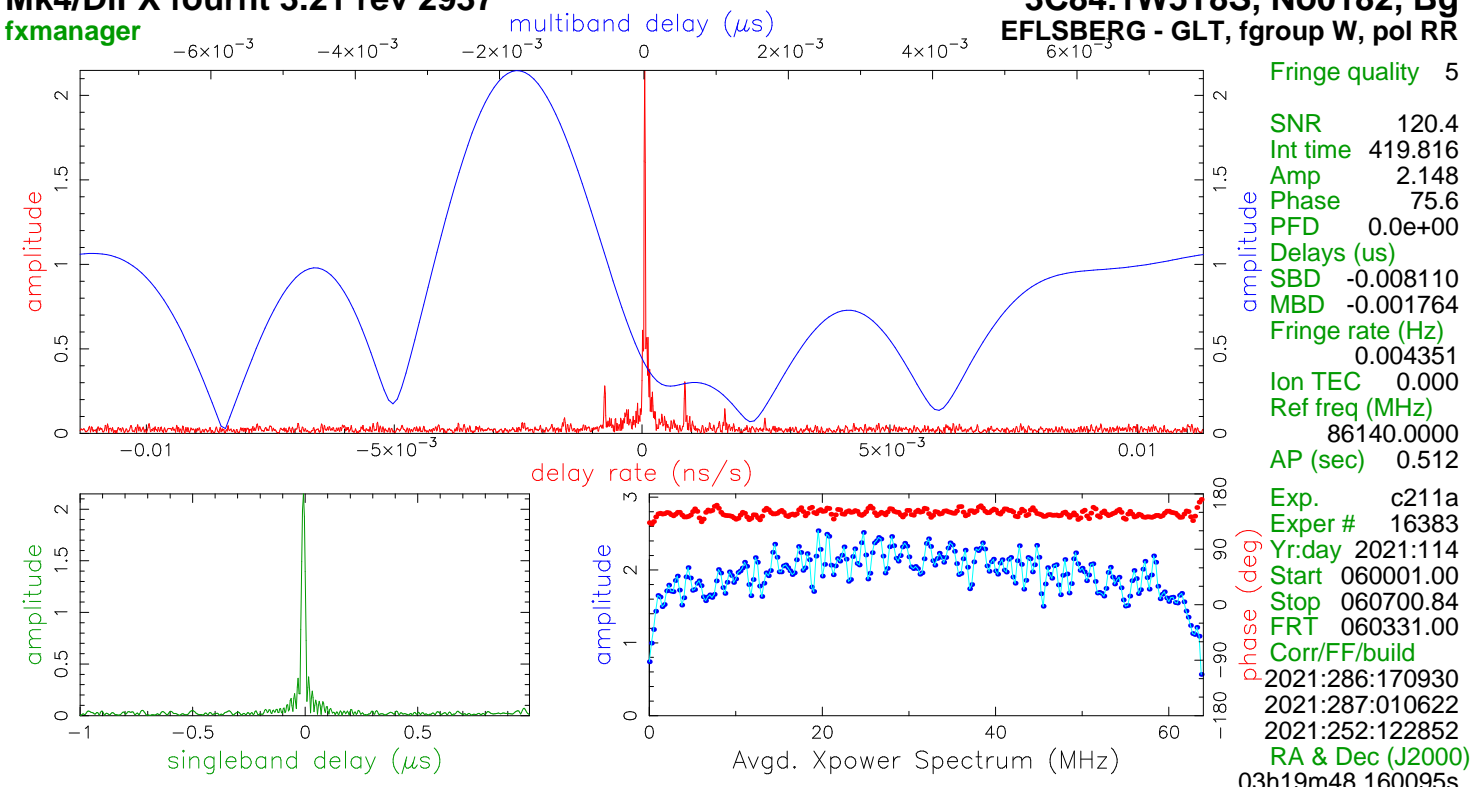
Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060001.00  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010619  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

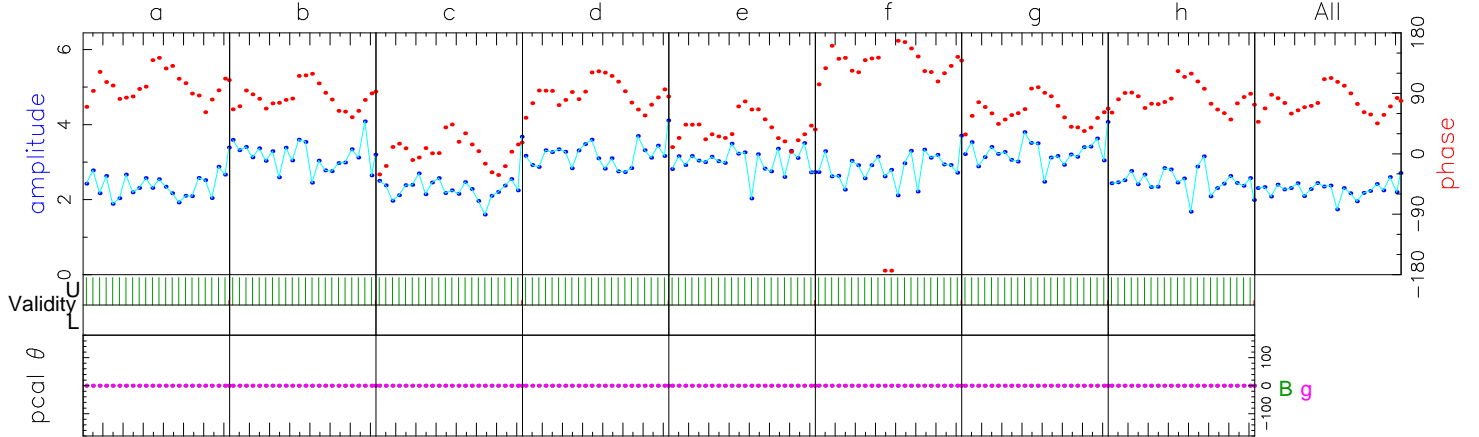


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	49.4	35.2	-44.0	50.1	-6.1	98.2	10.9	24.1	Phase	26.8
	2.6	3.2	3.1	3.1	3.1	3.4	3.1	2.3	Ampl.	3.0
	255.7	256.9	257.8	257.9	257.8	257.6	257.1	256.1	Sbd box	257.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs 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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-9.18444309165E+02		Apriori delay (usec)		-9.18450790744E+02		Resid mbdelay (usec)		6.48158E-03	+/- 8.4E-06
Sband delay (usec)	-9.18450794994E+02		Apriori clock (usec)		-2.2490549E+01		Resid sbdelay (usec)		-4.25000E-06	+/- 6.6E-05
Phase delay (usec)	-9.18450789880E+02		Apriori clockrate (us/s)		-5.9999999E-08		Resid phdelay (usec)		8.64085E-07	+/- 2.8E-08
Delay rate (us/s)	7.07153683267E-01		Apriori rate (us/s)		7.07153633021E-01		Resid rate (us/s)		5.02459E-08	+/- 1.2E-10
Total phase (deg)			Apriori accel (us/s/s)		-1.03121129079E-05		Resid phase (deg)		26.8	+/- 0.9

ph/seg (deg) 19.0 2.1 Search (2048X32) 2.166 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 9.5 3.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 45.8 1.2 Inc. seg. avg. 2.449 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 31.7 2.2 Inc. frq. avg. 2.979 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 54.1 el 25.0 pa -43.6 g: az 3.0 el 28.1 pa -1.1 u,v (fr/asec) -5426.751 -2008.437 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/Bg..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/Bg.W.10.1W5T8S



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
B	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
B:g	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
B:g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-9.18452554696E+02		Apriori delay (usec)	-9.18450790744E+02	Resid mbdelay (usec)	-1.76395E-03	+/-	9.0E-06		
Sband delay (usec)	-9.18458900994E+02		Apriori clock (usec)	-2.2490549E+01	Resid sbdelay (usec)	-8.11025E-03	+/-	7.2E-05		
Phase delay (usec)	-9.18450788305E+02		Apriori clockrate (us/s)	-5.9999999E-08	Resid phdelay (usec)	2.43890E-06	+/-	3.1E-08		
Delay rate (us/s)	7.07153683532E-01		Apriori rate (us/s)	7.07153633021E-01	Resid rate (us/s)	5.05109E-08	+/-	1.3E-10		
Total phase (deg)		34.3	Apriori accel (us/s/s)	-1.03121129079E-05	Resid phase (deg)	75.6	+/-	1.0		

RMS Theor. Amplitude 2.148 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 18.7 2.3 Search (2048X32) 2.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 10.0 4.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 45.0 1.3 Inc. seg. avg. 2.263 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 28.8 2.3 Inc. frq. avg. 2.660 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 B: az 54.1 el 25.0 pa -43.6 g: az 3.0 el 28.1 pa -1.1 u,v (fr/asec) -5426.751 -2008.437 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/Bg..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/Bg.W.29.1W5T8S

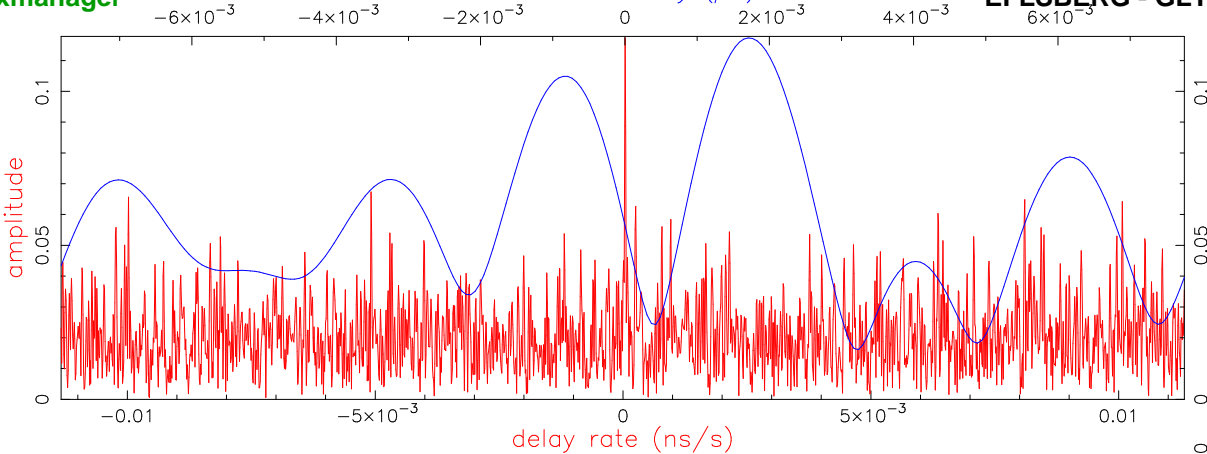
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W5T8S, No0182, Bg

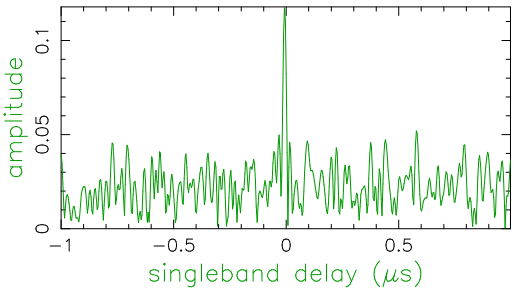
EFLSBERG - GLT, fgroup W, pol LR

multiband delay ( $\mu$ s)

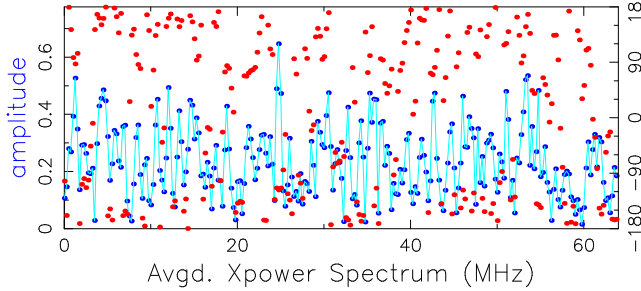


Fringe quality 0

SNR 6.6  
Int time 419.816  
Amp 0.118  
Phase 56.7  
PFD 1.1e-02  
Delays (us)  
SBD -0.007010  
MBD 0.001739  
Fringe rate (Hz)  
0.004276  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

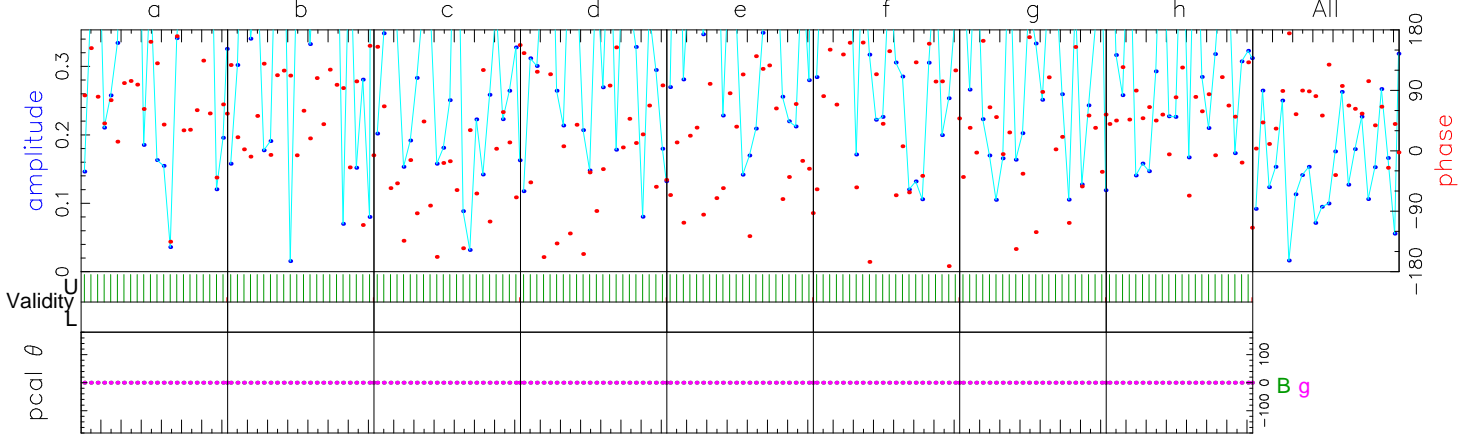


delay rate (ns/s)



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 060001.00  
Stop 060700.84  
FRT 060331.00  
Corr/FF/build  
2021:286:170930  
2021:287:010626  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
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)	-9.18464676549E+02									
Sband delay (usec)	-9.18457800744E+02									
Phase delay (usec)	-9.18450788916E+02									
Delay rate (us/s)	7.07153682663E-01									
Total phase (deg)			15.4							
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)									56.7	+/- 17.4
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								

B: az 54.1 el 25.0 pa -43.6 g: az 3.0 el 28.1 pa -1.1 u,v (fr/asec) -5426.751 -2008.437 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/Bg..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/Bg.W.46.1W5T8S

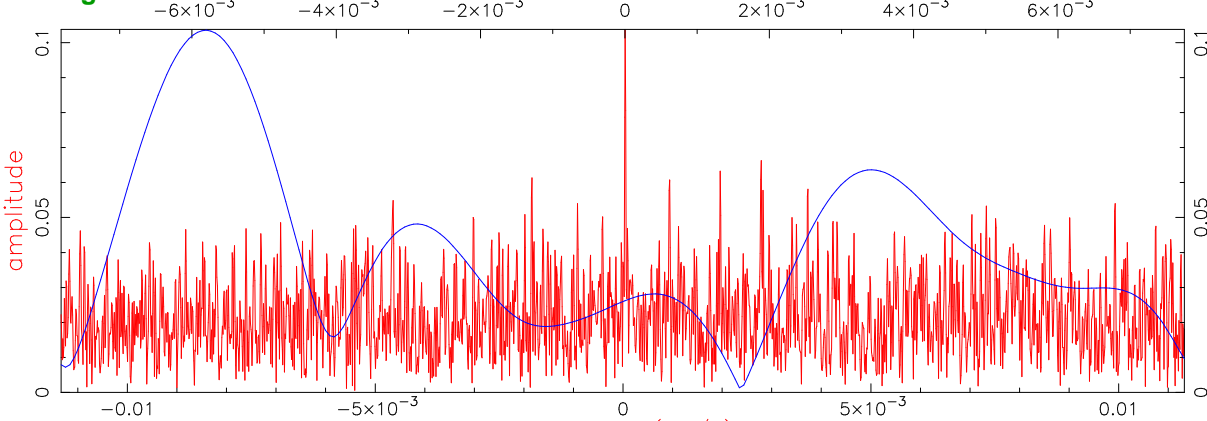
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W5T8S, No0182, Bg

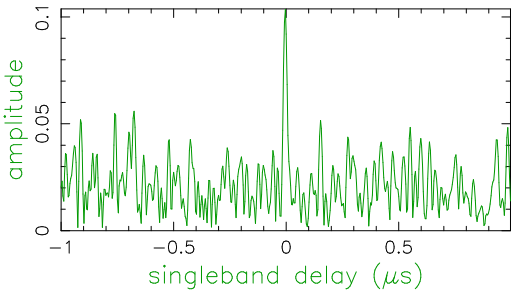
EFLSBERG - GLT, fgroup W, pol RL

multiband delay ( $\mu$ s)

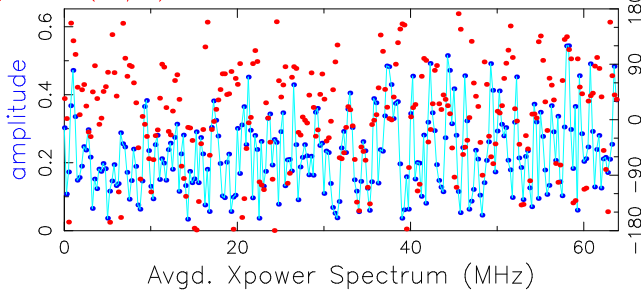


Fringe quality 0

SNR 5.8  
 Int time 419.819  
 Amp 0.104  
 Phase 35.2  
 PFD 7.8e-01  
 Delays (us)  
 SBD -0.004555  
 MBD -0.005825  
 Fringe rate (Hz)  
 0.003888  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

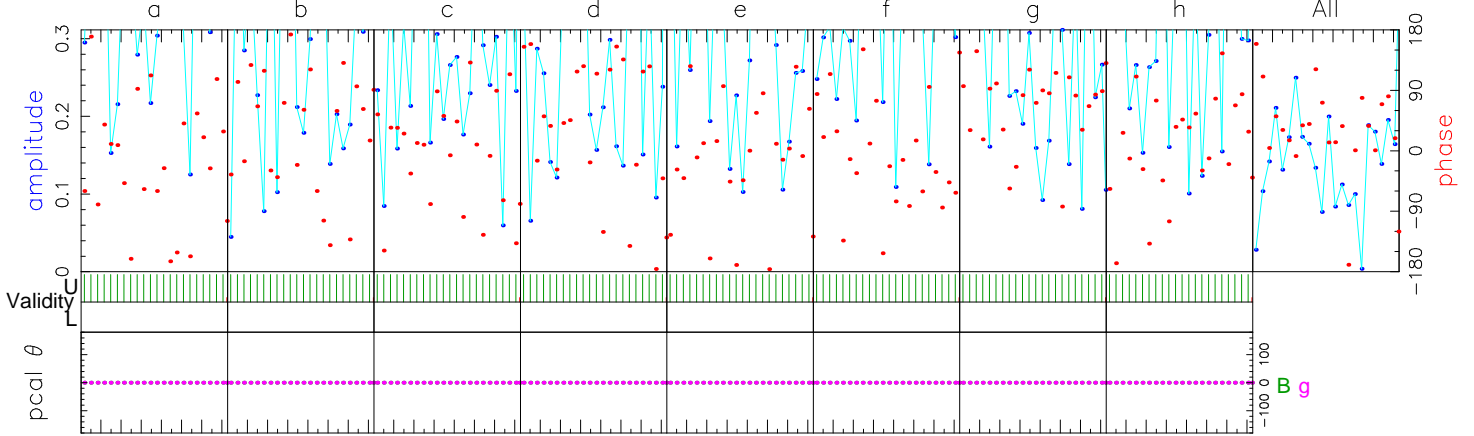


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060001.00  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010630  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
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		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-9.18456615799E+02									
Sband delay (usec)	-9.18455345994E+02									
Phase delay (usec)	-9.18450789610E+02									
Delay rate (us/s)	7.07153678154E-01									
Total phase (deg)			-6.1							
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	56.2	47.2								
Theor.	47.2									
Amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
0.104 +/- 0.018										
0.103										
0.000										
0.104										
0.111										
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										
B: az 54.1 el 25.0 pa -43.6										
g: az 3.0 el 28.1 pa -1.1										
u,v (fr/asec) -5426.751 -2008.437										
Control file: cf_1234_gmva										
Input file: /Exps/c211a/v2/1234/No0182/Bg..1W5T8S										
Output file: /Exps/c211a/v2/1234/No0182/Bg.W.65.1W5T8S										

simultaneous interpolator

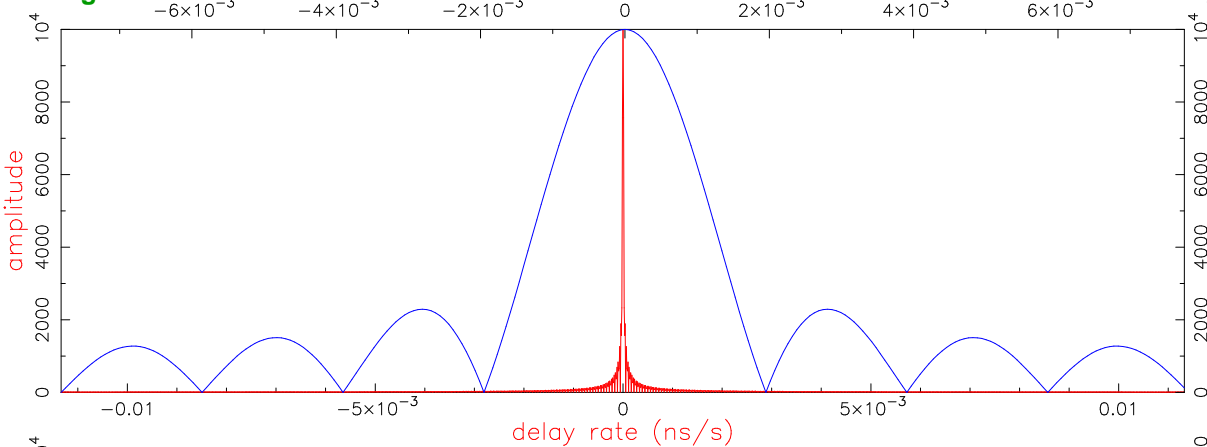
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W5T8S, No0182, gg

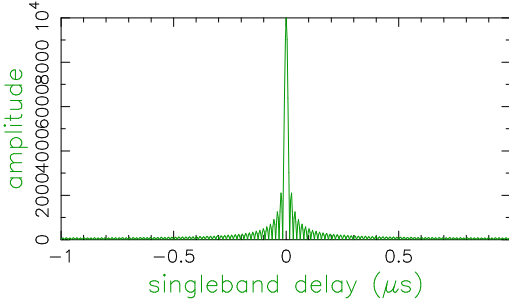
GLT - GLT, fgroup W, pol RR

multiband delay ( $\mu$ s)

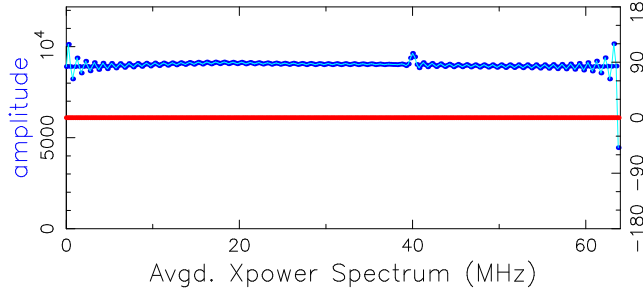


Fringe quality 9

SNR 560315.4  
 Int time 419.827  
 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

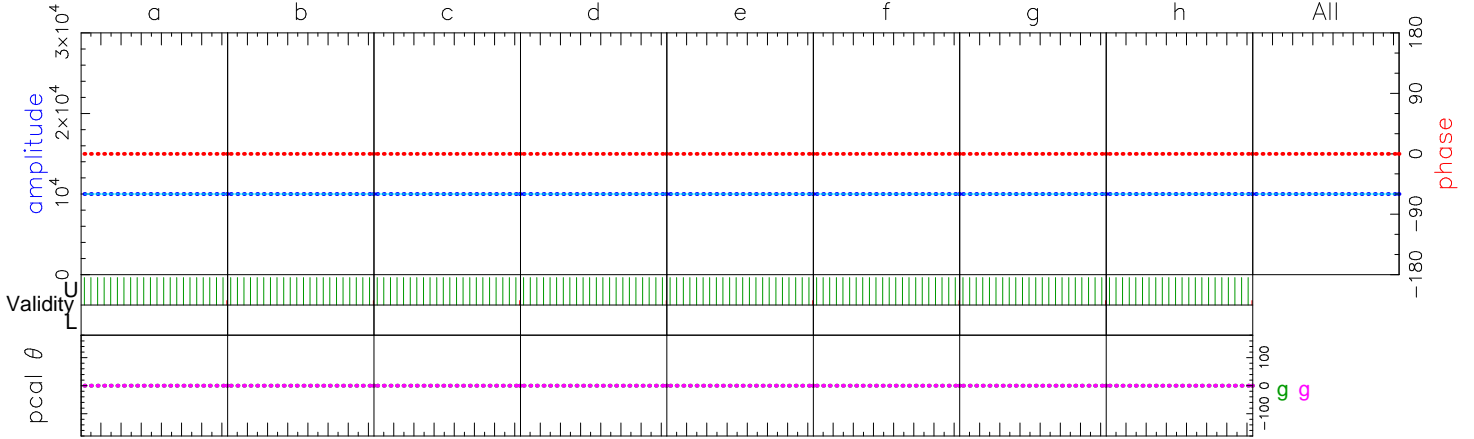


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060001.00  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010621  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	Ampl.	10000.0
g	0	0	0	0	0	0	0	0	Sbd box	257.0
g:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
g:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
g	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
									Tracks	
									Chan ids	
									Tracks	
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	Resid mbdelay (usec)	0.00000E+00 +/- 1.9E-09
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	Resid sbdelay (usec)	0.00000E+00 +/- 1.5E-08
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	Resid phdelay (usec)	0.00000E+00 +/- 6.6E-12
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	Resid rate (us/s)	0.00000E+00 +/- 2.7E-14
Total phase (deg)		0.0							Resid phase (deg)	0.0 +/- 0.0

ph/seg (deg) 0.0 0.0 Theor. Amplitude 10000.000 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 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  
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 Inc. frq. avg. 10000.000 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

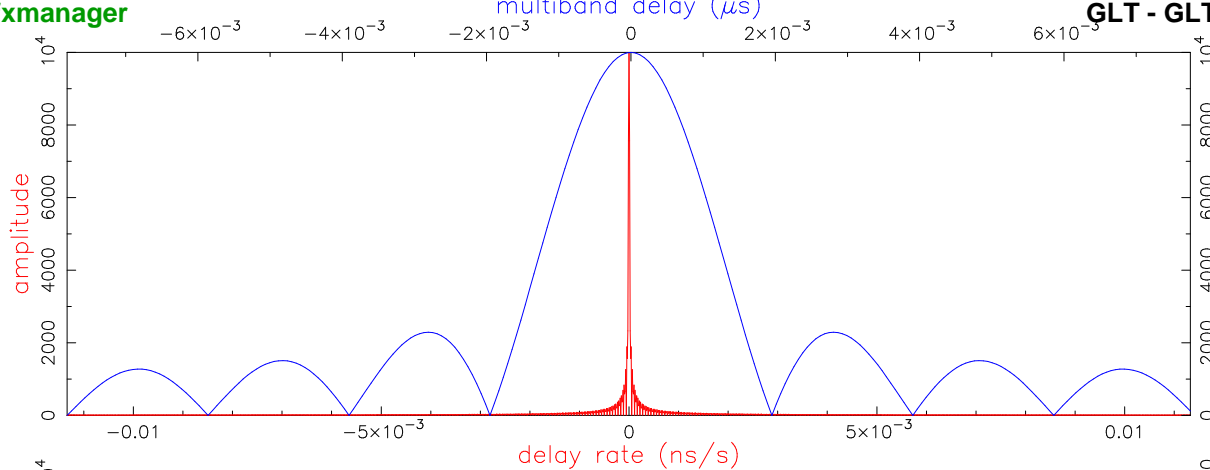
g: az 3.0 el 28.1 pa -1.1 g: az 3.0 el 28.1 pa -1.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/gg..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/gg.W.22.1W5T8S

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

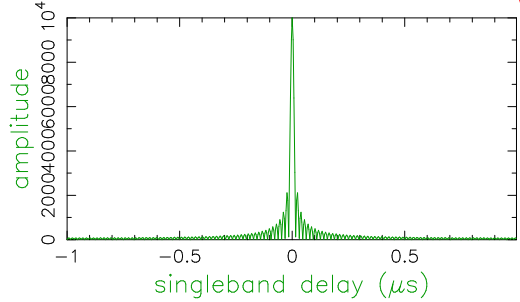
3C84.1W5T8S, No0182, gg

GLT - GLT, fgroup W, pol LL

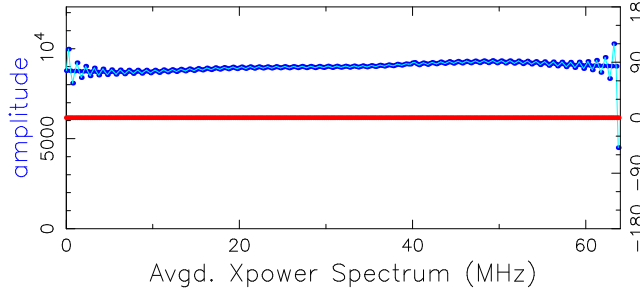


Fringe quality 9

SNR 560317.6  
 Int time 419.830  
 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

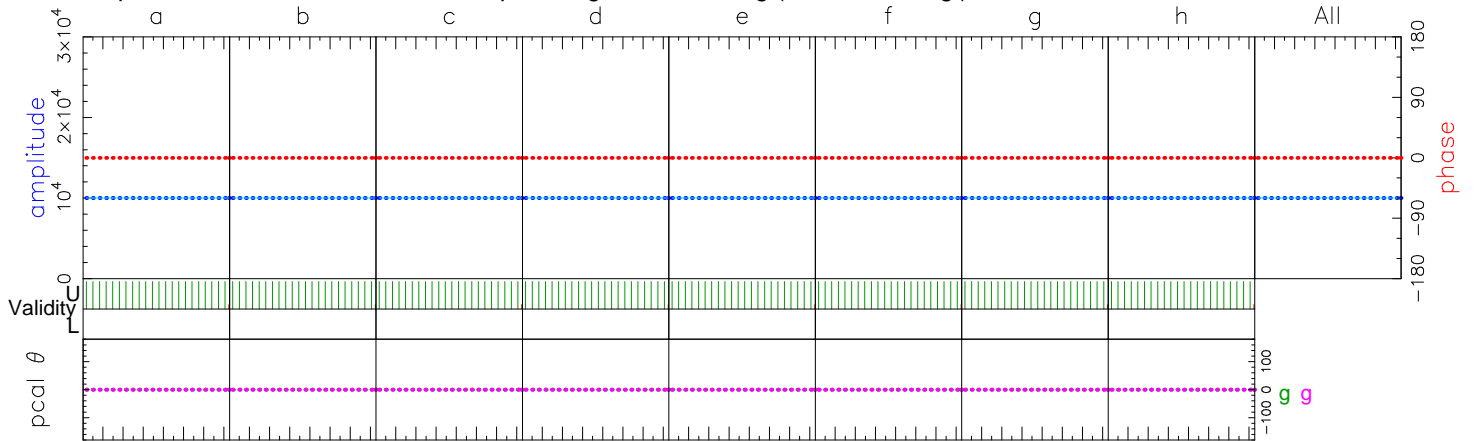


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060001.00  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010618  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	10000.0	10000.0
g	0	0	0	0	0	0	0	0	Ampl.	10000.0
g:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
g:g	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC phase	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Mani PC	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
									Chan ids	
									Tracks	
									Tracks	

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	1.9E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-08
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	6.6E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.7E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

ph/seg (deg) 0.0 0.0 Theor. Amplitude 10000.000 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 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  
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 Inc. frq. avg. 10000.000 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

g: az 3.0 el 28.1 pa -1.1 g: az 3.0 el 28.1 pa -1.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/gg..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/gg.W.3.1W5T8S

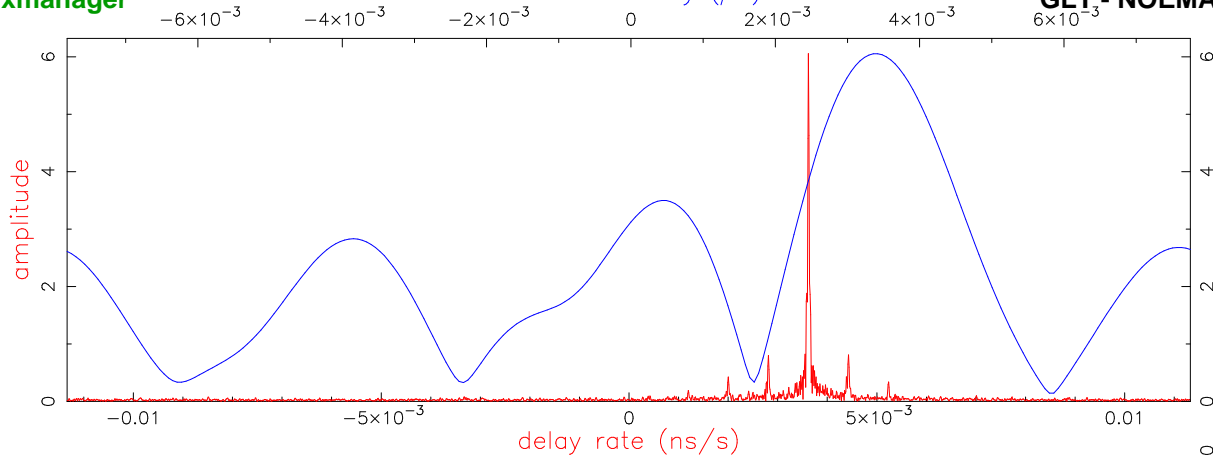
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W5T8S, No0182, gN

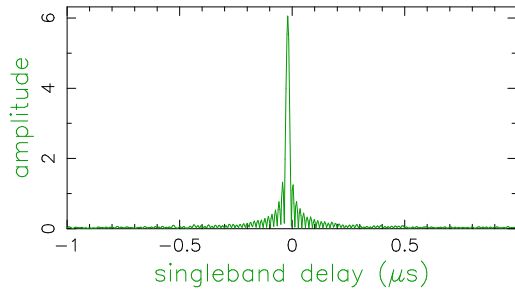
GLT - NOEMA, fgroup W, pol LL

multiband delay ( $\mu$ s)

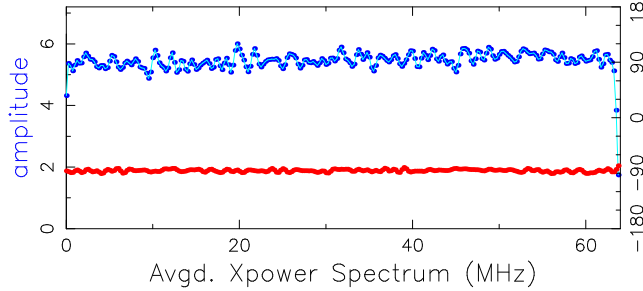


Fringe quality 5

SNR 339.4  
 Int time 419.830  
 Amp 6.320  
 Phase 7.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.019786  
 MBD 0.003392  
 Fringe rate (Hz)  
 0.312305  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

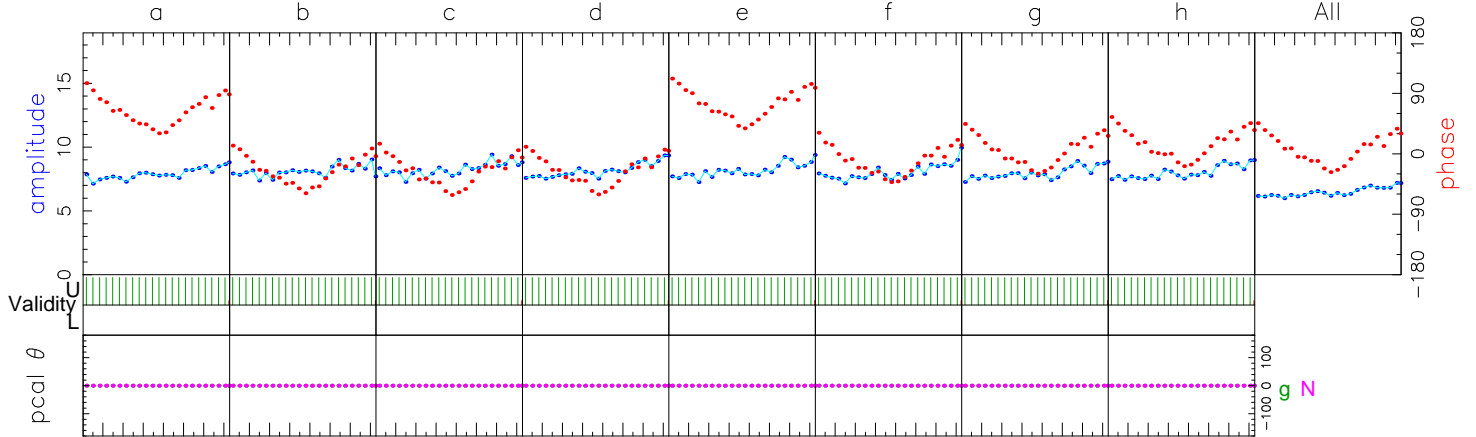


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060001.00  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010619  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
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		
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)	2.28513673828E+03	Apriori delay (usec)	2.28514897101E+03	Resid mbdelay (usec)	3.39227E-03	+/-	3.2E-06
Sband delay (usec)	2.28512918476E+03	Apriori clock (usec)	1.3652221E+01	Resid sbdelay (usec)	-1.97862E-02	+/-	2.5E-05
Phase delay (usec)	2.28514897124E+03	Apriori clockrate (us/s)	5.8200003E-06	Resid phdelay (usec)	2.30722E-07	+/-	1.1E-08
Delay rate (us/s)	-7.91436766369E-01	Apriori rate (us/s)	-7.91440391915E-01	Resid rate (us/s)	3.62555E-06	+/-	4.5E-11
Total phase (deg)	137.9	Apriori accel (us/s/s)	8.17941231192E-06	Resid phase (deg)	7.2	+/-	0.3

ph/seg (deg)	20.8	RMS	20.8	Theor.	0.8	Amplitude	6.320 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	8.6	Search (2048X32)	5.590	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	43.3	Inc. seg. avg.	6.748	Inc. frq. avg.	7.874	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	24.7	Inc. frq. avg.	7.874	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags:	256	t_cohere	infinite
g: az 3.0 el 28.1 pa -1.1		N: az 51.6 el 20.9 pa -48.7		u,v (fr/asec)	6068.079 2313.049			ion window (TEC)	0.00	0.00	

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/gN..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/gN.W.15.1W5T8S simultaneous interpolator

Mk4/DiFX fourfit 3.21 rev 2937

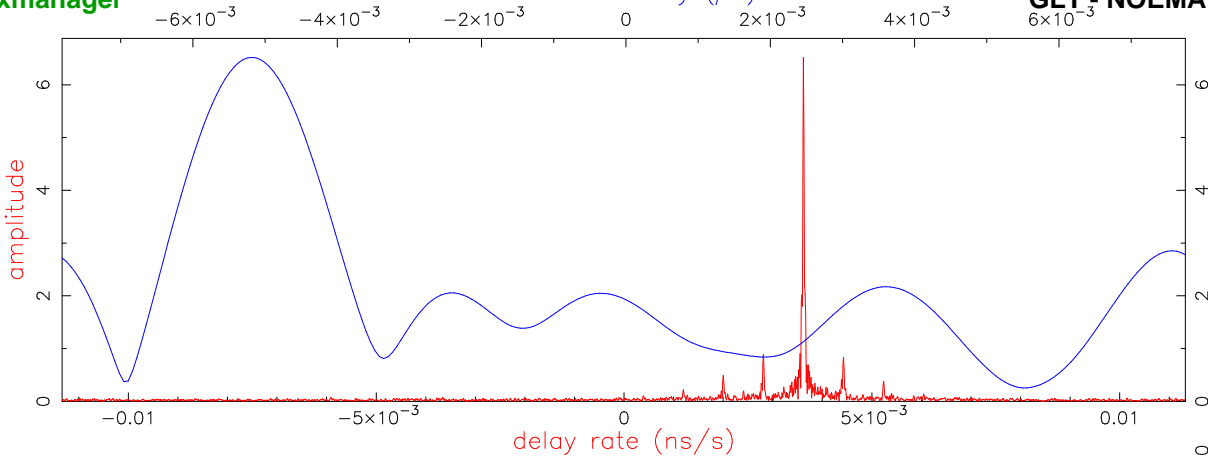
fxmanager

3C84.1W5T8S, No0182, gN

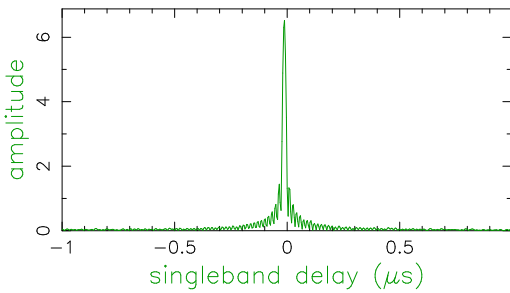
GLT - NOEMA, fgroup W, pol RR

multiband delay ( $\mu$ s)

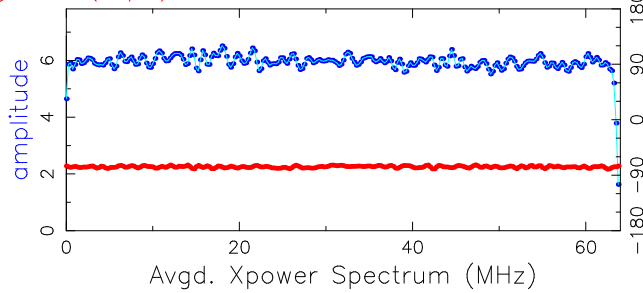
Fringe quality 6



SNR 369.5  
 Int time 419.827  
 Amp 6.881  
 Phase -166.5  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.013020  
 MBD -0.005186  
 Fringe rate (Hz)  
 0.312320  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

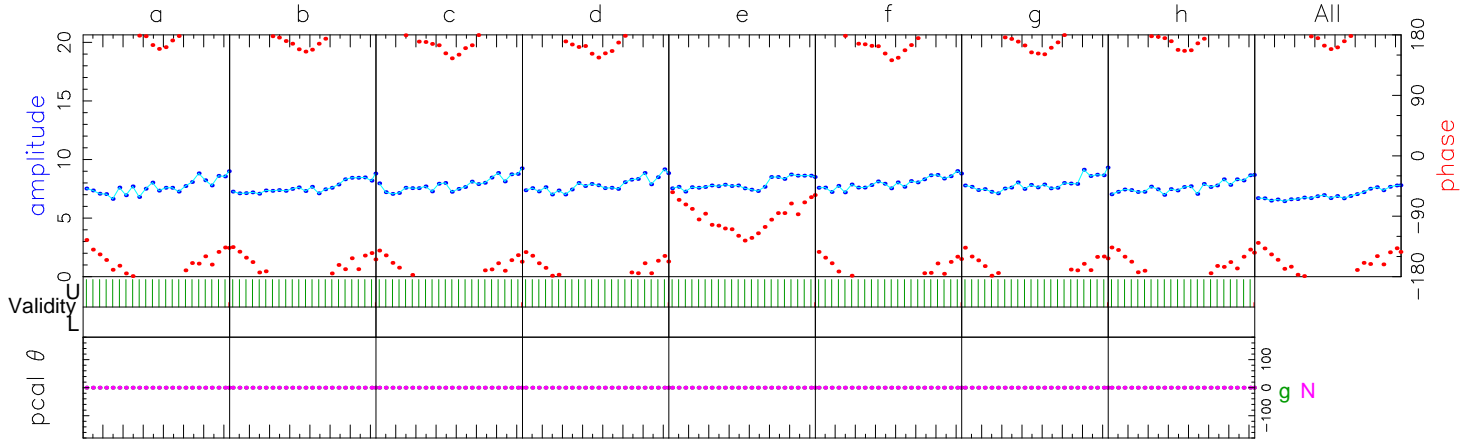


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060001.00  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010624  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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
	-165.9	-171.8	-177.7	-178.9	-91.1	179.4	-175.7	-171.2	Phase	-166.5
	7.5	7.5	7.7	7.6	7.8	7.8	7.7	7.5	Ampl.	7.6
	253.5	253.8	253.6	253.6	253.8	253.6	253.8	253.7	Sbd box	253.7
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	2.28512816035E+03	Apriori delay (usec)	2.28514897101E+03	Resid mbdelay (usec)	-5.18567E-03	+/-	2.9E-06
Sband delay (usec)	2.28513595076E+03	Apriori clock (usec)	1.3652221E+01	Resid sbdelay (usec)	-1.30203E-02	+/-	2.3E-05
Phase delay (usec)	2.28514896565E+03	Apriori clockrate (us/s)	5.8200003E-06	Resid phdelay (usec)	-5.36811E-06	+/-	1.0E-08
Delay rate (us/s)	-7.91436766186E-01	Apriori rate (us/s)	-7.91440391915E-01	Resid rate (us/s)	3.62573E-06	+/-	4.1E-11
Total phase (deg)		Apriori accel (us/s/s)	8.17941231192E-06	Resid phase (deg)	-166.5	+/-	0.3

ph/seg (deg)	RMS 20.5	Theor. 0.7	Amplitude 6.881 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	8.2	1.3	Search (2048X32) 6.062	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	32.4	0.4	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	10.9	0.8	Inc. seg. avg. 7.258	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011	
			Inc. frq. avg. 7.619	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00	
g: az 3.0 el 28.1 pa -1.1		N: az 51.6 el 20.9 pa -48.7		u,v (fr/asec) 6068.079 2313.049	simultaneous interpolator	

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/gN..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/gN.W.39.1W5T8S



Mk4/DiFX fourfit 3.21 rev 2937

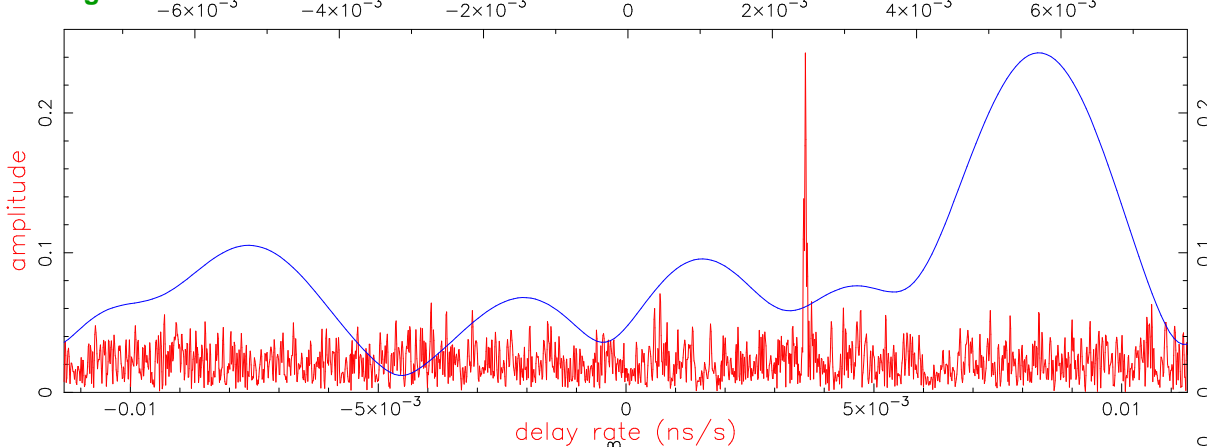
fxmanager

3C84.1W5T8S, No0182, gN

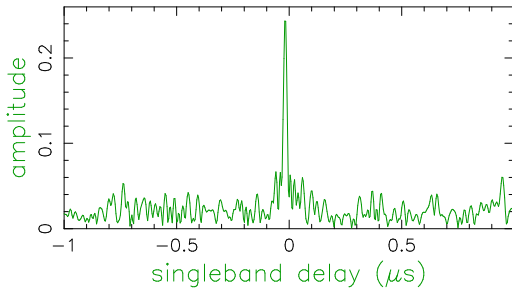
GLT - NOEMA, fgroup W, pol LR

multiband delay ( $\mu$ s)

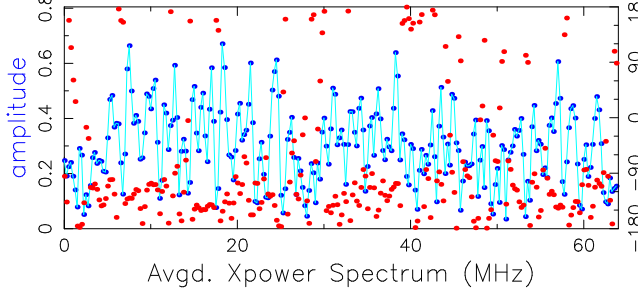
Fringe quality 9



SNR 14.0  
Int time 419.830  
Amp 0.260  
Phase -40.9  
PFD 1.7e-35  
Delays (us)  
SBD -0.017595  
MBD 0.005728  
Fringe rate (Hz)  
0.312445  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

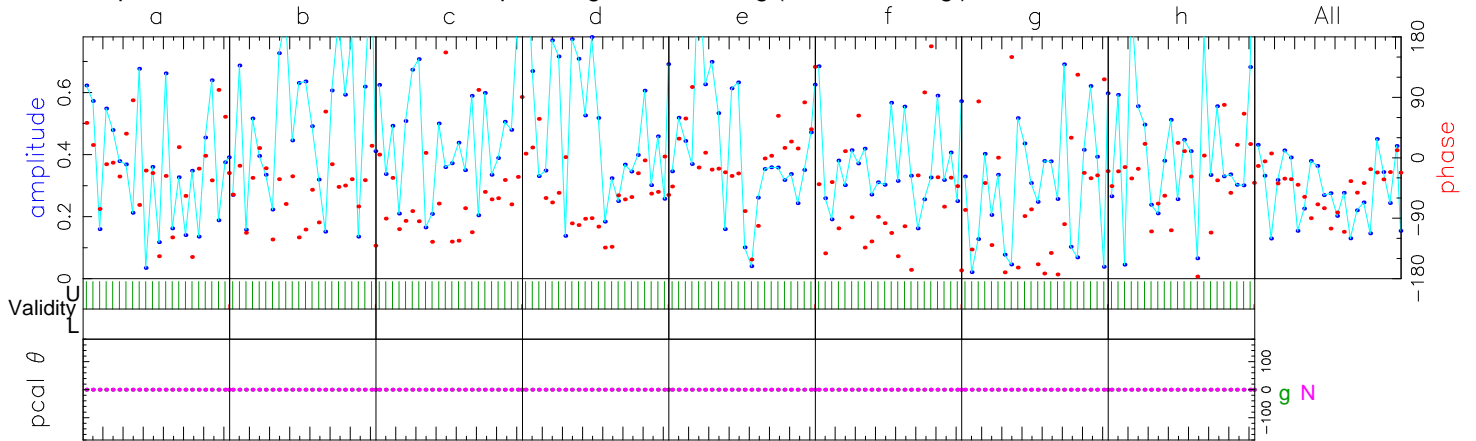


delay rate (ns/s)



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 060001.00  
Stop 060700.84  
FRT 060331.00  
Corr/FF/build  
2021:286:170930  
2021:287:010628  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
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) 2.28513907411E+03 Apriori delay (usec) 2.28514897101E+03 Resid mbdelay (usec) 5.72809E-03 +/- 7.8E-05  
 Sband delay (usec) 2.28513137601E+03 Apriori clock (usec) 1.3652221E+01 Resid sbdelay (usec) -1.75950E-02 +/- 6.2E-04  
 Phase delay (usec) 2.28514896970E+03 Apriori clockrate (us/s) 5.8200003E-06 Resid phdelay (usec) -1.31824E-06 +/- 2.6E-07  
 Delay rate (us/s) -7.91436764742E-01 Apriori rate (us/s) -7.91440391915E-01 Resid rate (us/s) 3.62717E-06 +/- 1.1E-09  
 Total phase (deg) 89.8 Apriori accel (us/s/s) 8.17941231192E-06 Resid phase (deg) -40.9 +/- 8.2

ph/seg (deg) 33.0 19.7 Search (2048X32) 0.233 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 43.3 34.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 38.0 11.6 Inc. seg. avg. 0.284 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 34.7 20.3 Inc. frq. avg. 0.286 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 3.0 el 28.1 pa -1.1 N: az 51.6 el 20.9 pa -48.7 u,v (fr/asec) 6068.079 2313.049 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/gN..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/gN.W.58.1W5T8S

Mk4/DiFX fourfit 3.21 rev 2937

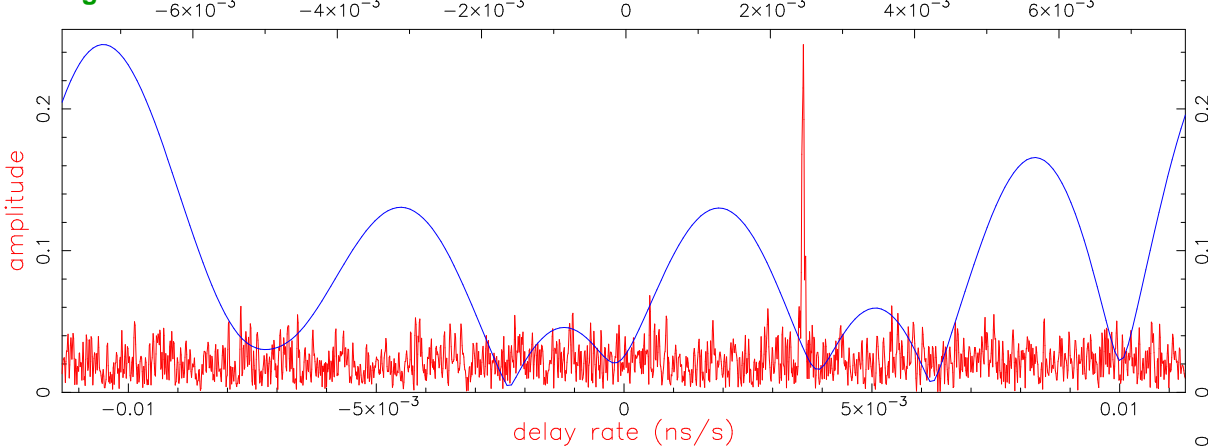
fxmanager

3C84.1W5T8S, No0182, gN

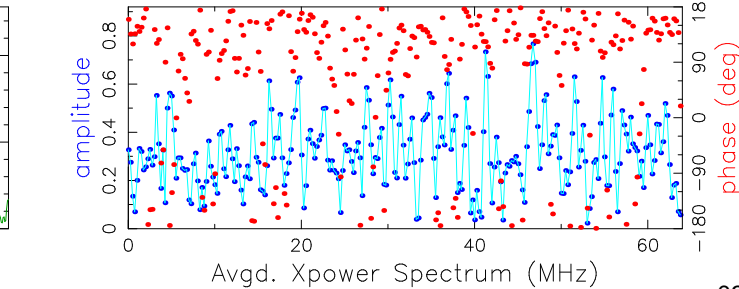
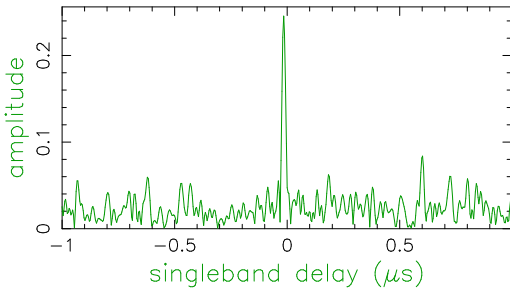
GLT - NOEMA, fgroup W, pol RL

multiband delay ( $\mu$ s)

Fringe quality 9

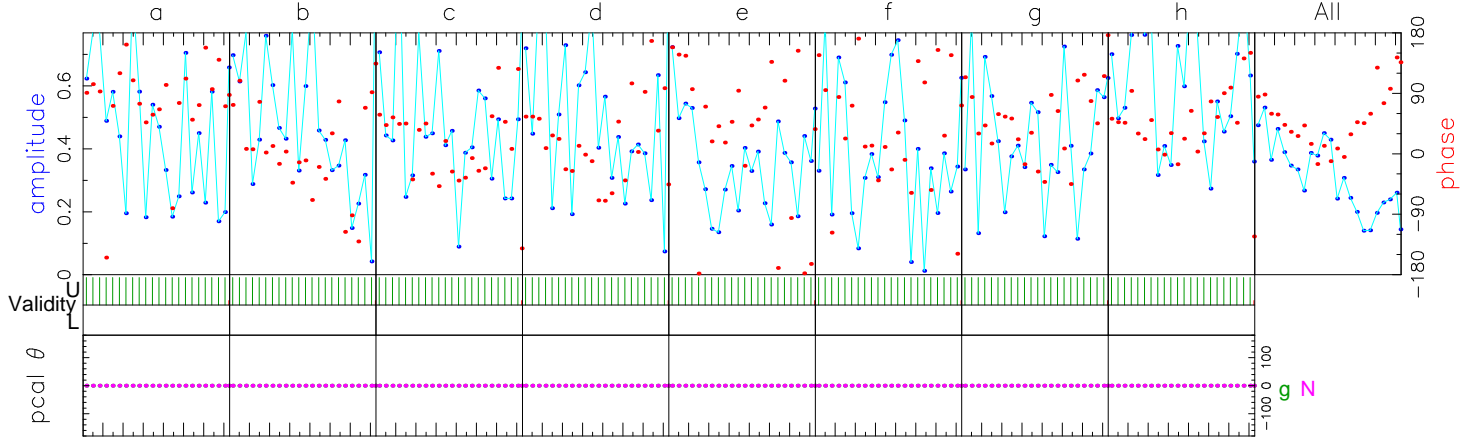


SNR 13.8  
 Int time 419.827  
 Amp 0.256  
 Phase 44.1  
 PFD 2.6e-34  
 Delays (us)  
 SBD -0.015491  
 MBD -0.007244  
 Fringe rate (Hz)  
 0.312407  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



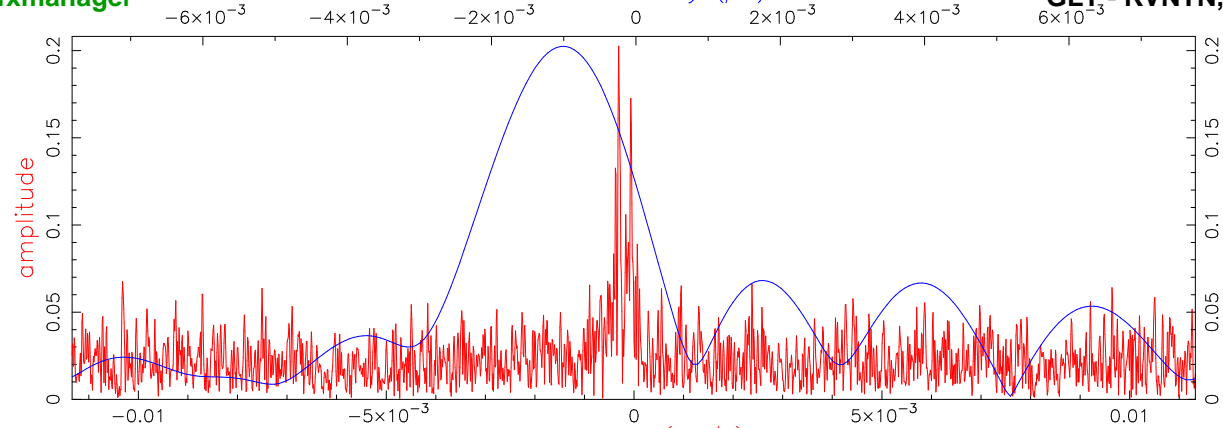
Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060001.00  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010631  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



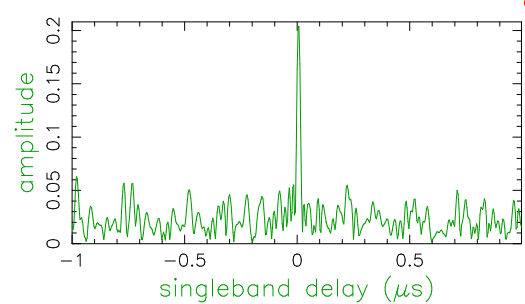
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0			
g:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
g:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
g	1000	1000	1000	1000	1000	1000	1000	1000			
N	1000	1000	1000	1000	1000	1000	1000	1000			
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
Group delay (usec)(sbd)		2.28512610183E+03				2.28514897101E+03			Resid mbdelay (usec)	-7.24419E-03 +/- 7.9E-05	
Sband delay (usec)		2.28513347951E+03				1.3652221E+01			Resid sbdelay (usec)	-1.54915E-02 +/- 6.3E-04	
Phase delay (usec)		2.28514897243E+03				5.8200003E-06			Resid phdelay (usec)	1.42114E-06 +/- 2.7E-07	
Delay rate (us/s)		-7.91436765184E-01				-7.91440391915E-01			Resid rate (us/s)	3.62673E-06 +/- 1.1E-09	
Total phase (deg)			174.8			8.17941231192E-06			Resid phase (deg)	44.1 +/- 8.3	
	RMS	Theor.	Amplitude	0.256 +/- 0.019		Pcal mode: MANUAL, MANUAL			PC period (AP's)	5, 5	
ph/seg (deg)	42.0	20.0	Search (2048X32)	0.230		Pcal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us)	-1.000 1.000	
amp/seg (%)	53.4	34.9	Interp.	0.000		Bits/sample: 2x2			SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	44.8	11.8	Inc. seg. avg.	0.313		Sample rate(MSamp/s): 128				dr window (ns/s)	-0.011 0.011
amp/frq (%)	43.3	20.6	Inc. frq. avg.	0.303		Data rate(Mb/s): 2048				ion window (TEC)	0.00 0.00
g: az 3.0 el 28.1 pa -1.1			N: az 51.6 el 20.9 pa -48.7			u,v (fr/asec) 6068.079 2313.049					simultaneous interpolator
Control file: cf_1234_gmva			Input file: /Exps/c211a/v2/1234/No0182/gN..1W5T8S			Output file: /Exps/c211a/v2/1234/No0182/gN.W.77.1W5T8S					

multiband delay ( $\mu$ s)

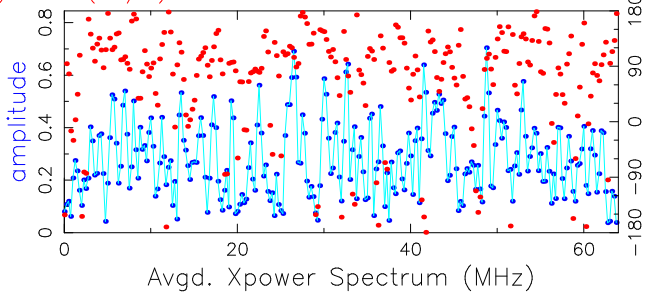


Fringe quality 9

SNR 11.7  
 Int time 419.827  
 Amp 0.208  
 Phase -170.9  
 PFD 1.0e-22  
 Delays (us)  
 SBD 0.005997  
 MBD -0.001002  
 Fringe rate (Hz)  
 -0.026405  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

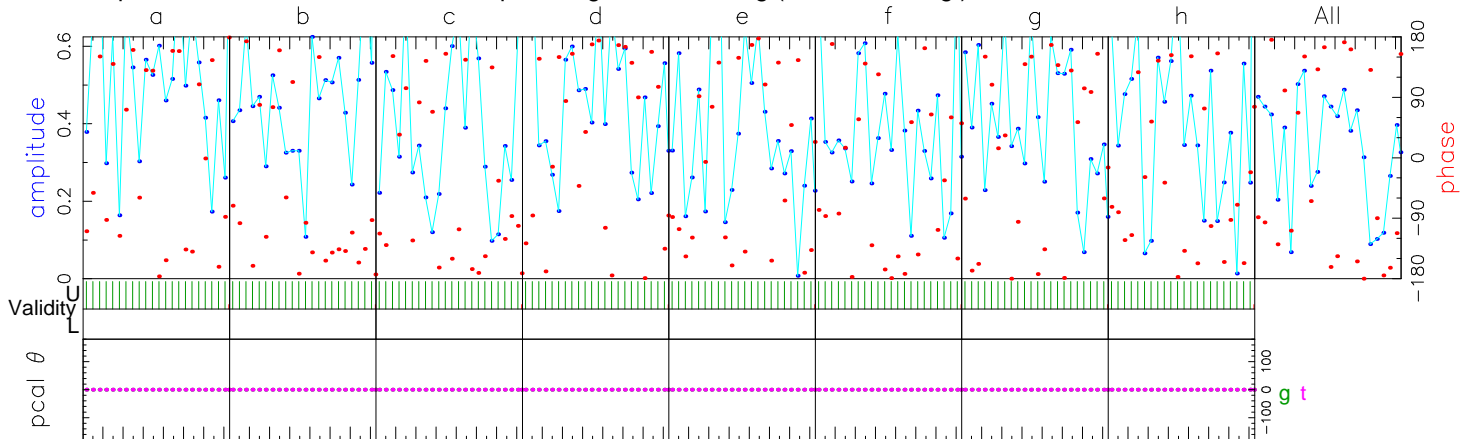


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060001.00  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010622  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

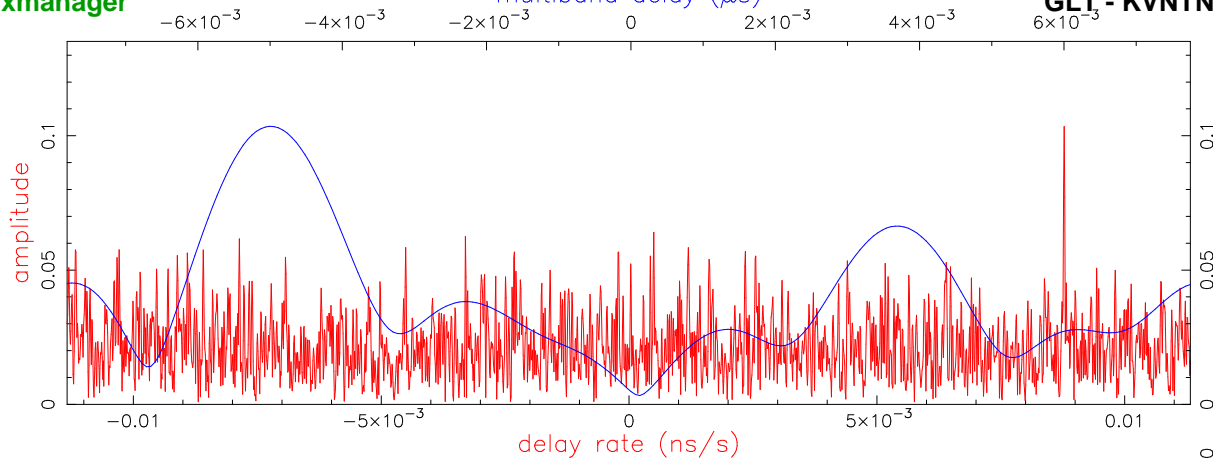
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
g	0	0	0	0	0	0	0	0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
g:t	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		
t	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.02770343126E+04									
Sband delay (usec)	-1.02770273139E+04									
Phase delay (usec)	-1.02770333164E+04									
Delay rate (us/s)	3.45500874277E-01									
Total phase (deg)			-315.8							
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								
Bits/sample:	2x2									
Sample rate(MISamp/s):	128									
Data rate(Mb/s):	2048									
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									
nlags:	256	t_cohere infinite								
simultaneous interpolator										

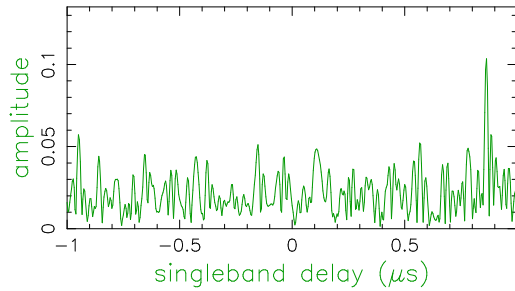
g: az 3.0 el 28.1 pa -1.1 t: az 304.7 el 73.1 pa 113.4 u,v (fr/asec) -2523.899 8859.366 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/gt..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/gt.W.25.1W5T8S

multiband delay ( $\mu\text{s}$ )

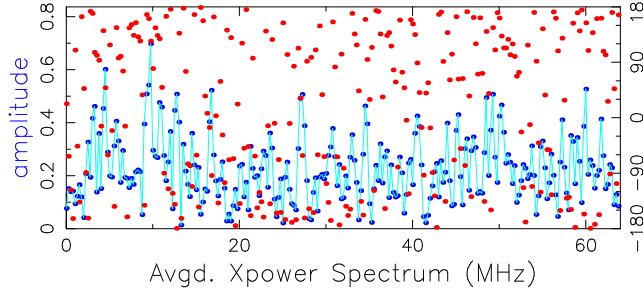


Fringe quality 0

SNR 5.8  
Int time 419.830  
Amp 0.135  
Phase 71.1  
PFD 7.4e-01  
Delays (us)  
SBD 0.862401  
MBD -0.005018  
Fringe rate (Hz)  
0.757194  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

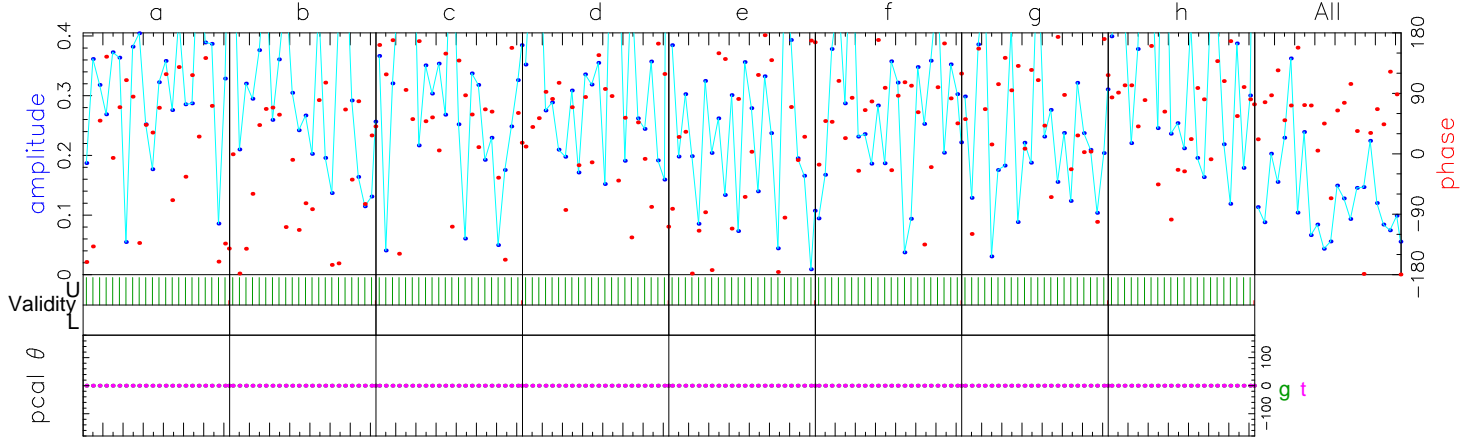


delay rate (ns/s)



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 060001.00  
Stop 060700.84  
FRT 060331.00  
Corr/FF/build  
2021:286:170930  
2021:287:010625  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
g	0	0	0	0	0	0	0	0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
g:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:t	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		
t	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-1.02761633288E+04	Apriori delay (usec)	-1.02770333109E+04	Resid mbdelay (usec)	-5.01792E-03	+/-	1.9E-04
Sband delay (usec)	-1.02761709099E+04	Apriori clock (usec)	6.9471169E-01	Resid sbdelay (usec)	8.62401E-01	+/-	1.5E-03
Phase delay (usec)	-1.02770333086E+04	Apriori clockrate (us/s)	2.6000000E-07	Resid phdelay (usec)	2.29144E-06	+/-	6.3E-07
Delay rate (us/s)	3.45509971085E-01	Apriori rate (us/s)	3.45501180815E-01	Resid rate (us/s)	8.79027E-06	+/-	2.6E-09
Total phase (deg)	-73.8	Apriori accel (us/s/s)	8.64388273805E-05	Resid phase (deg)	71.1	+/-	19.6

ph/seg (deg)	51.8	RMS	47.1	Theor.	47.1	Amplitude	0.135 +/- 0.023	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	77.4	Search (2048X32)	0.103	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	75.2	Inc. seg. avg.	0.132	Inc. frq. avg.	0.136	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	54.1	Inc. frq. avg.	0.136	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags:	256	t_cohere	infinite
g: az 3.0 el 28.1 pa -1.1		t: az 304.7 el 73.1 pa 113.4		u, v (fr/asec)	-2523.899 8859.366			ion window (TEC)	0.00	0.00	simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/gt..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/gt.W.43.1W5T8S

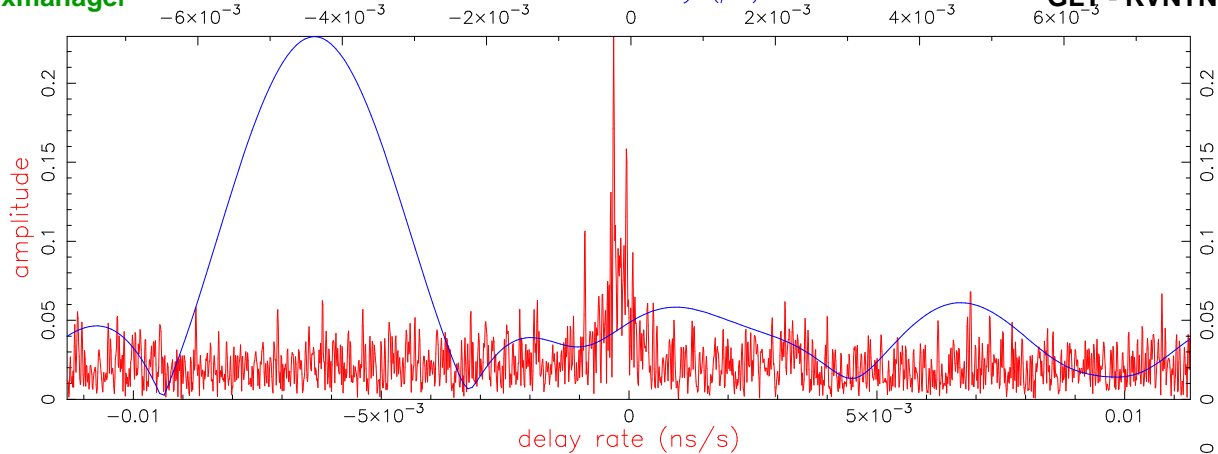
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W5T8S, No0182, gt

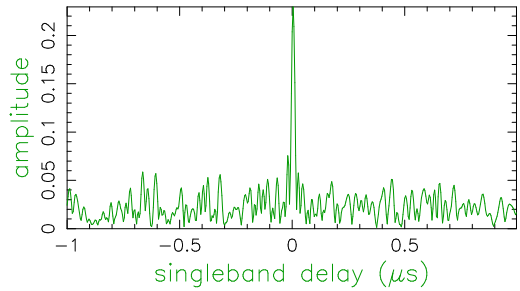
GLT - KVNTN, fgroup W, pol LL

multiband delay ( $\mu$ s)

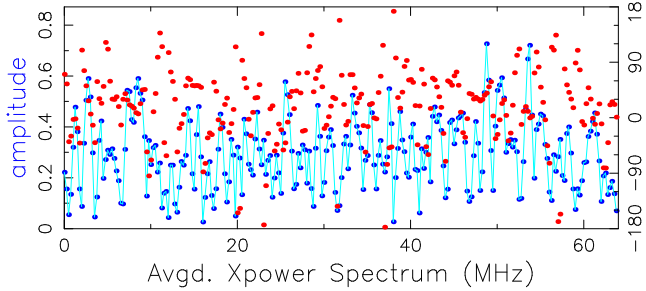


Fringe quality 9

SNR 12.9  
 Int time 419.830  
 Amp 0.230  
 Phase 123.3  
 PFD 4.0e-29  
 Delays (us)  
 SBD 0.004137  
 MBD -0.004384  
 Fringe rate (Hz)  
 -0.026662  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

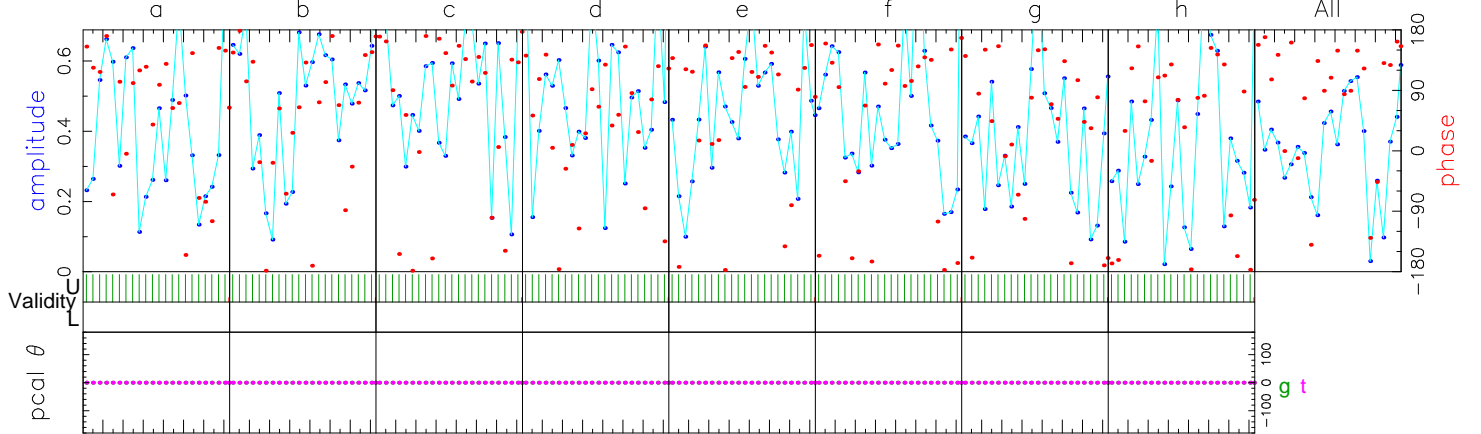


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060001.00  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010618  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
g	0	0	0	0	0	0	0	0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
g:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:t	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		
t	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.02770220704E+04									
Sband delay (usec)	-1.02770291739E+04									
Phase delay (usec)	-1.02770333069E+04									
Delay rate (us/s)	3.45500871298E-01									
Total phase (deg)			-21.6							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
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 $\theta$										
Tracks										
Chan ids										
Tracks										
Chan ids										
Tracks										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

ph/seg (deg) 66.4 21.4 Search (2048X32) 0.227 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 79.2 37.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 18.5 12.6 Inc. seg. avg. 0.329 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 24.1 22.0 Inc. frq. avg. 0.233 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 3.0 el 28.1 pa -1.1 t: az 304.7 el 73.1 pa 113.4 u,v (fr/asec) -2523.899 8859.366 ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/gt..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/gt.W.5.1W5T8S

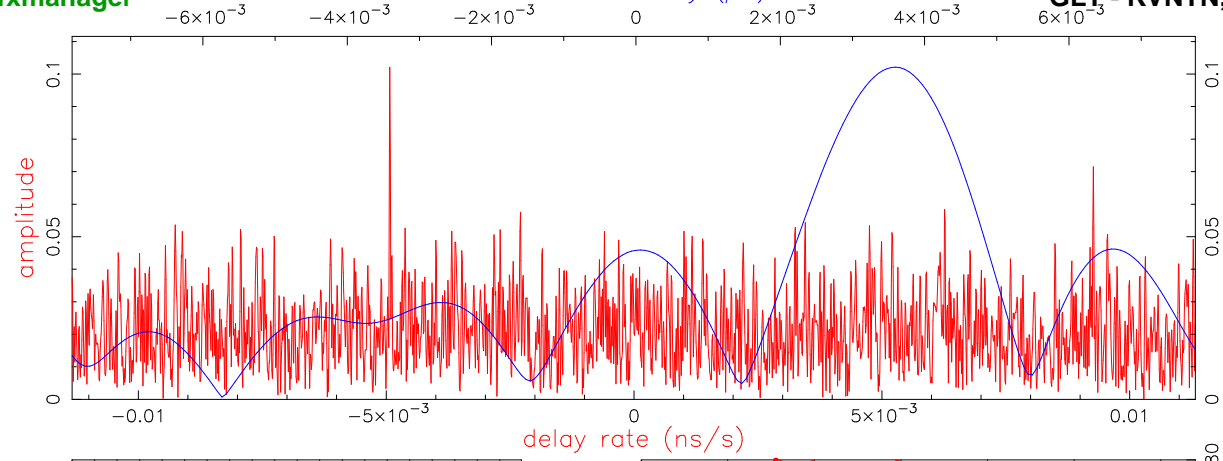
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

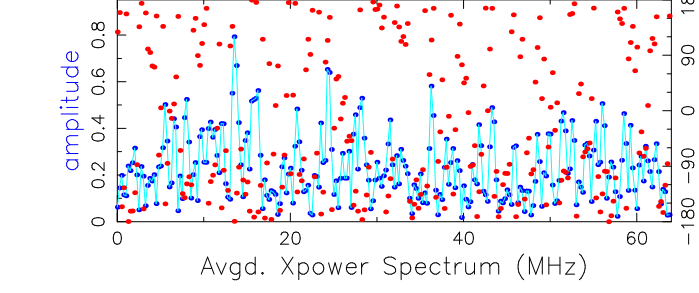
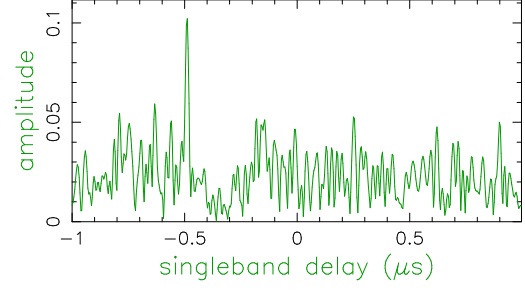
3C84.1W5T8S, No0182, gt

GLT - KVNTN, fgroup W, pol RL

multiband delay ( $\mu$ s)

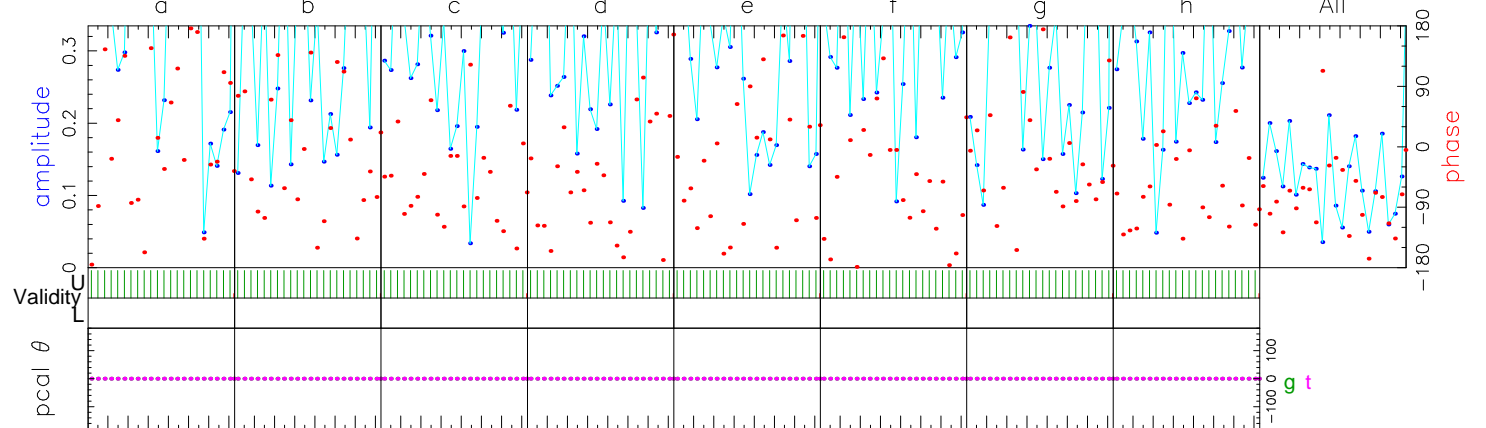


Fringe quality 0  
 SNR 5.8  
 Int time 419.827  
 Amp 0.112  
 Phase -77.0  
 PFD 8.5e-01  
 Delays (us)  
 SBD -0.489542  
 MBD 0.003615  
 Fringe rate (Hz)  
 -0.425279  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. c211a  
 Yr:day 16383  
 Start 2021:114  
 Stop 2021:114  
 FRT 060001.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010628  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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
	-167.2	-60.5	-48.6	-87.9	-94.1	-98.6	-56.9	-81.9	Phase	-77.0
	0.0	0.1	0.2	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
	161.3	382.9	49.4	134.0	348.7	66.5	311.4	130.2	Sbd box	131.7
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:t	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	
t	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.02775296957E+04		Apriori delay (usec)		-1.02770333109E+04		Resid mbdelay (usec)		3.61521E-03	+/- 1.9E-04
Sband delay (usec)	-1.02775228527E+04		Apriori clock (usec)		6.9471169E-01		Resid sbdelay (usec)		-4.89542E-01	+/- 1.5E-03
Phase delay (usec)	-1.02770333134E+04		Apriori clockrate (us/s)		2.6000000E-07		Resid phdelay (usec)		-2.48228E-06	+/- 6.4E-07
Delay rate (us/s)	3.45496243742E-01		Apriori rate (us/s)		3.45501180815E-01		Resid rate (us/s)		-4.93707E-06	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		8.64388273805E-05		Resid phase (deg)		-77.0	+/- 19.8

ph/seg (deg) 52.3 47.6 Search (2048X32) 0.099 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 57.4 83.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 41.9 28.1 Inc. seg. avg. 0.102 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 40.8 49.0 Inc. frq. avg. 0.110 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 3.0 el 28.1 pa -1.1 t: az 304.7 el 73.1 pa 113.4 u,v (fr/asec) -2523.899 8859.366 ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/gt..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/gt.W.61.1W5T8S simultaneous interpolator

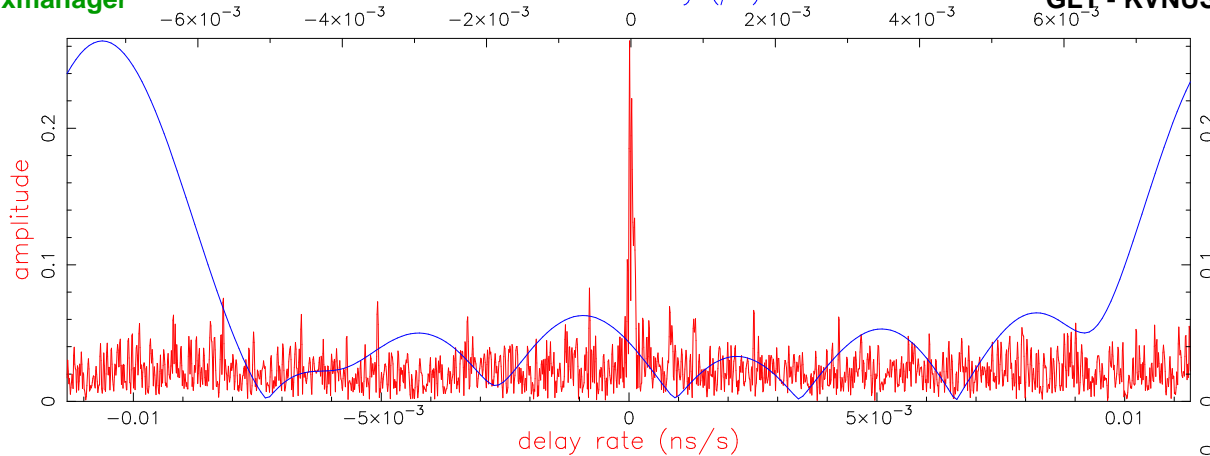
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W5T8S, No0182, gu

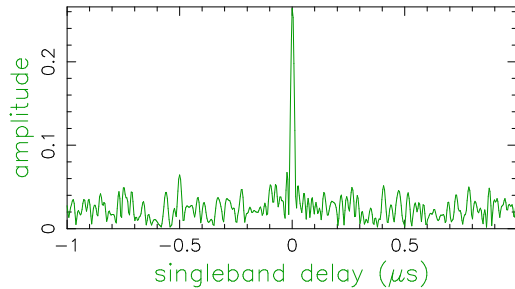
GLT - KVNUS, fgroup W, pol LL

multiband delay ( $\mu$ s)

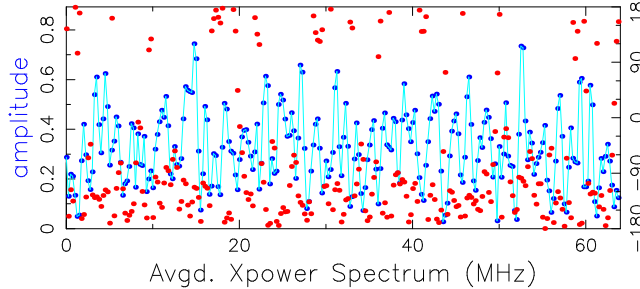


Fringe quality 9

SNR 14.9  
Int time 419.830  
Amp 0.266  
Phase -37.5  
PFD 2.3e-41  
Delays (us)  
SBD 0.001065  
MBD -0.007320  
Fringe rate (Hz) 0.001088  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

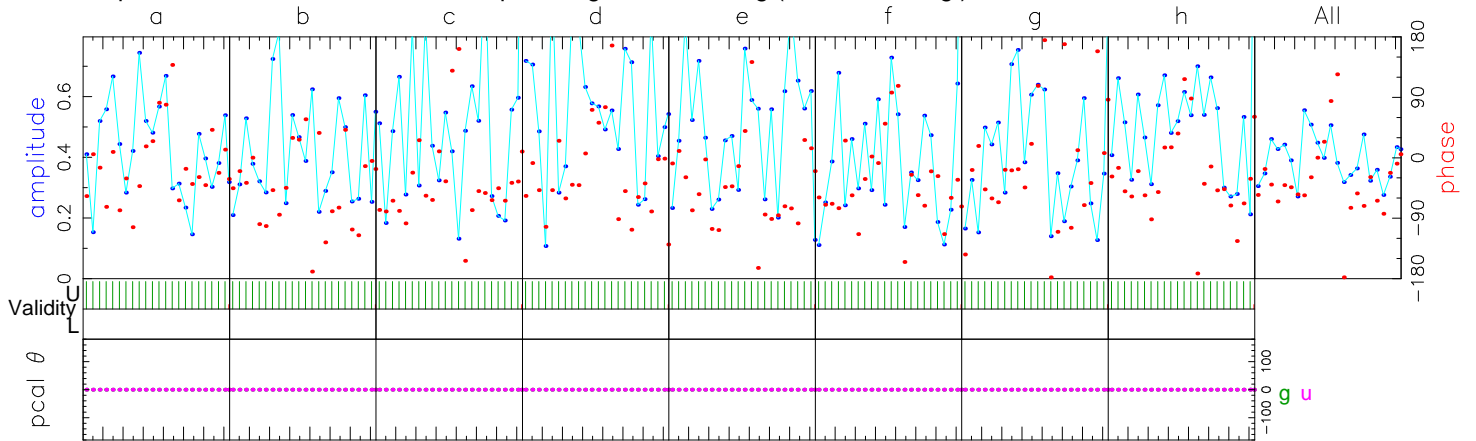


delay rate (ns/s)



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 060001.00  
Stop 060700.84  
FRT 060331.00  
Corr/FF/build  
2021:286:170930  
2021:287:010620  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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
	-13.7	-42.2	-53.6	-36.5	-47.5	-37.2	-35.0	-27.5	Phase	-37.5
	0.3	0.2	0.4	0.3	0.3	0.2	0.2	0.3	Ampl.	0.3
	257.3	257.8	257.1	257.4	257.0	257.2	256.8	257.7	Sbd box	257.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:u	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	
u	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

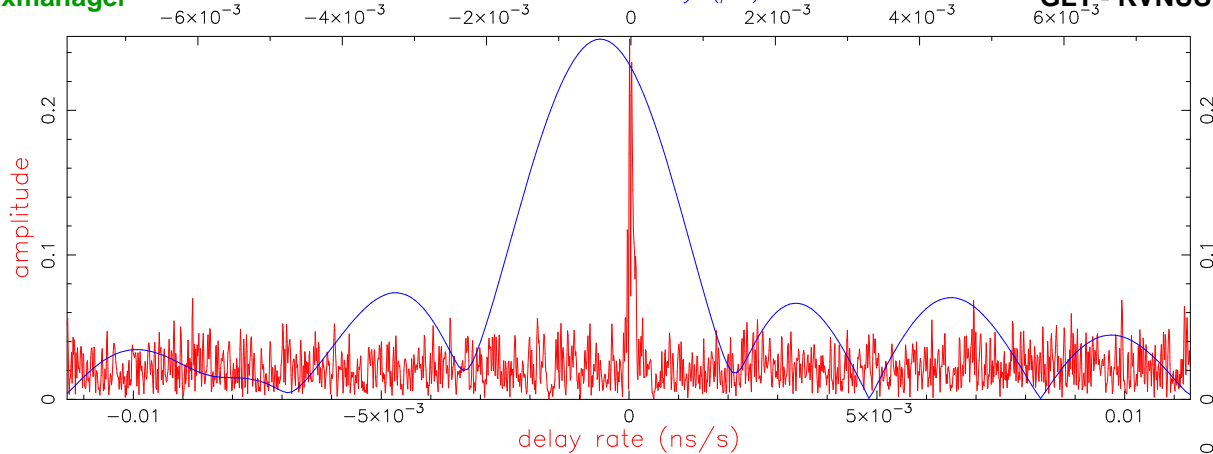
Group delay (usec)(sbd)	-1.01899298395E+04	Apriori delay (usec)	-1.01899381447E+04	Resid mbdelay (usec)	-7.31977E-03	+/-	7.3E-05
Sband delay (usec)	-1.01899370795E+04	Apriori clock (usec)	-1.4076891E+01	Resid sbdelay (usec)	1.06525E-03	+/-	5.8E-04
Phase delay (usec)	-1.01899381459E+04	Apriori clockrate (us/s)	-1.0670000E-06	Resid phdelay (usec)	-1.20861E-06	+/-	2.5E-07
Delay rate (us/s)	3.79866202640E-01	Apriori rate (us/s)	3.79866190014E-01	Resid rate (us/s)	1.26265E-08	+/-	1.0E-09
Total phase (deg)	-320.7	Apriori accel (us/s/s)	8.34678671171E-05	Resid phase (deg)	-37.5	+/-	7.7

ph/seg (deg)	58.2	Theor.	18.5	Amplitude	0.266 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	56.2	Search (2048X32)	0.262	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	13.3	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	22.1	Inc. seg. avg.	0.375	Sample rate (MSamp/s):	128	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00
		Inc. frq. avg.	0.265	Data rate (Mb/s):	2048					

g: az 3.0 el 28.1 pa -1.1 u: az 296.3 el 72.2 pa 101.7 u,v (fr/asec) -2790.959 8439.472 simultaneous interpolator

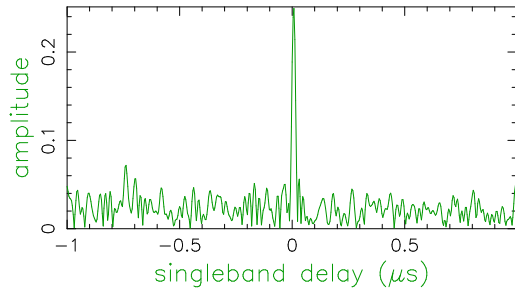
Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/gu..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/gu.W.19.1W5T8S

multiband delay ( $\mu$ s)

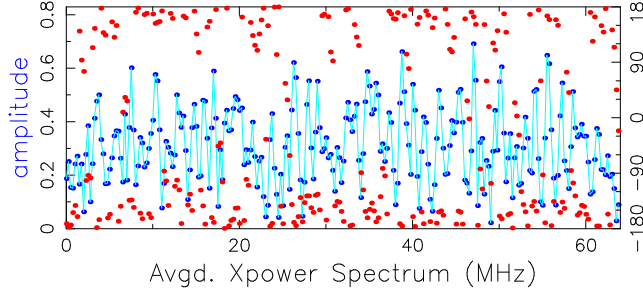


Fringe quality 9

SNR 14.1  
Int time 419.827  
Amp 0.251  
Phase -89.3  
PFD 3.2e-36  
Delays (us)  
SBD 0.006710  
MBD -0.000423  
Fringe rate (Hz)  
0.001059  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

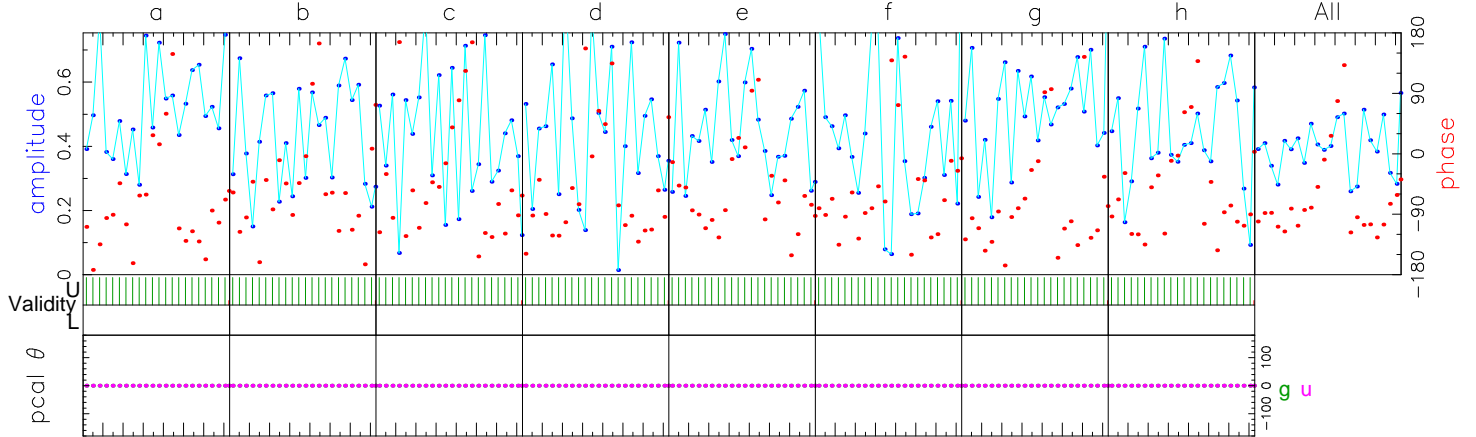


delay rate (ns/s)



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 060001.00  
Stop 060700.84  
FRT 060331.00  
Corr/FF/build  
2021:286:170930  
2021:287:010624  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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				
	-100.7	-80.4	-90.5	-92.3	-70.3	-77.0	-110.1	-88.9	Phase	-89.3				
	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.2	Ampl.	0.3				
	259.8	258.6	258.0	259.1	258.2	259.0	259.1	258.5	Sbd box	258.7				
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used					
g	0	0	0	0	0	0	0	0	PC freqs					
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
g:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
g:u	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					
u	1000	1000	1000	1000	1000	1000	1000	1000						
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids					
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks					
									Chan ids					
									Tracks					
Group delay (usec)(sbd)	-1.01899385675E+04								Apriori delay (usec)	-1.01899381447E+04	Resid mbdelay (usec)	-4.22772E-04	+/-	7.7E-05
Sband delay (usec)	-1.01899314347E+04								Apriori clock (usec)	-1.4076891E+01	Resid sbdelay (usec)	6.71000E-03	+/-	6.1E-04
Phase delay (usec)	-1.01899381476E+04								Apriori clockrate (us/s)	-1.0670000E-06	Resid phdelay (usec)	-2.88015E-06	+/-	2.6E-07
Delay rate (us/s)	3.79866202305E-01								Apriori rate (us/s)	3.79866190014E-01	Resid rate (us/s)	1.22913E-08	+/-	1.1E-09
Total phase (deg)			-12.5						Apriori accel (us/s/s)	8.34678671171E-05	Resid phase (deg)	-89.3	+/-	8.1

ph/seg (deg) 58.1 19.5 Theor. Amplitude 0.251 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 64.0 34.1 Search (2048X32) 0.248 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 13.9 11.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
amp/frq (%) 8.4 20.1 Inc. seg. avg. 0.371 Sample rate(MSamp/s): 128 dr window (ns/s) -0.011 0.011  
g: az 3.0 el 28.1 pa -1.1 u: az 296.3 el 72.2 pa 101.7 u,v (fr/asec) -2790.959 8439.472 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/gu..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/gu.W.38.1W5T8S simultaneous interpolator



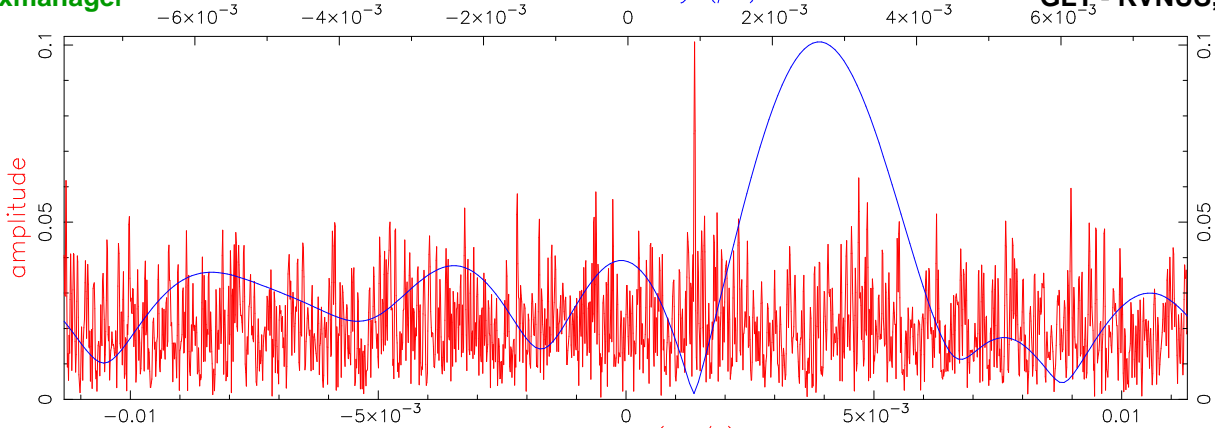
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W5T8S, No0182, gu

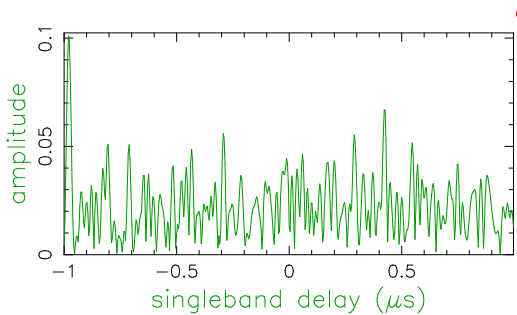
GLT - KVNUS, fgroup W, pol LR

multiband delay ( $\mu$ s)

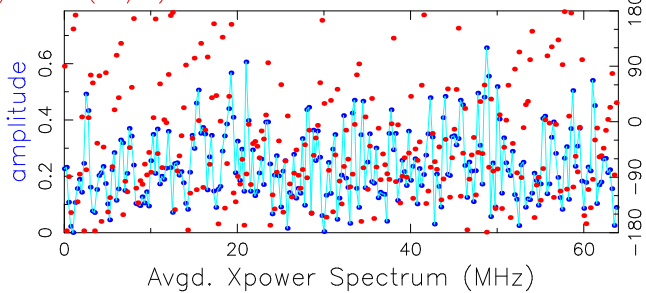


Fringe quality 0

SNR 5.7  
 Int time 419.830  
 Amp 0.102  
 Phase 149.3  
 PFD 9.4e-01  
 Delays (us)  
 SBD -0.979070  
 MBD 0.002633  
 Fringe rate (Hz)  
 0.119346  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

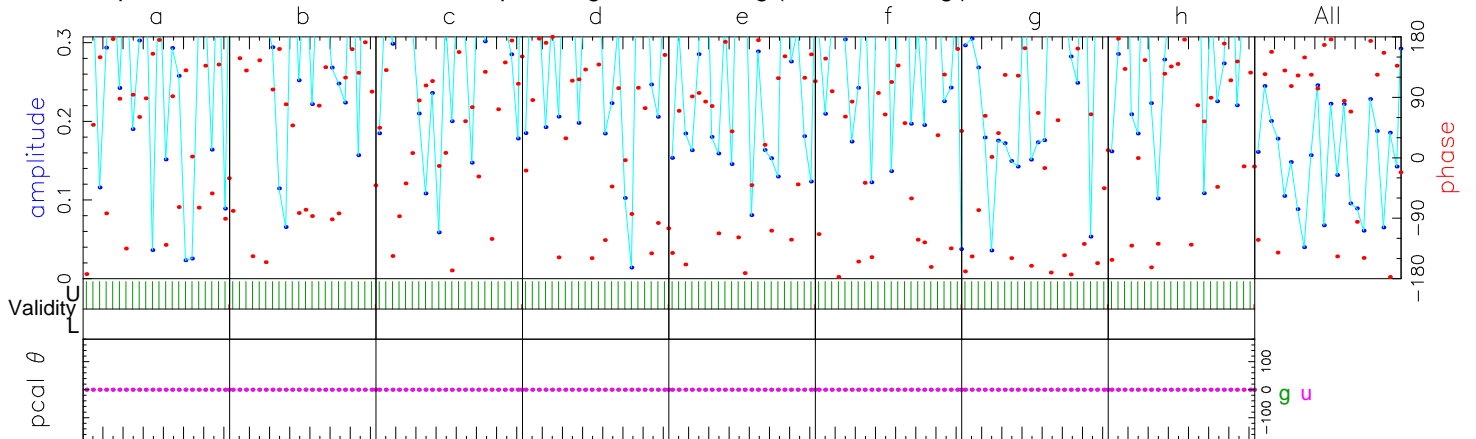


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060001.00  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010628  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
g	0	0	0	0	0	0	0	0		
u	1000	1000	1000	1000	1000	1000	1000	1000		
g:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:u	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		
u	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.01909198869E+04				-1.01899381447E+04				2.63280E-03	+/- 1.9E-04
Sband delay (usec)	-1.01909172145E+04				-1.4076891E+01				-9.79070E-01	+/- 1.5E-03
Phase delay (usec)	-1.01899381399E+04				-1.0670000E-06				4.81316E-06	+/- 6.5E-07
Delay rate (us/s)	3.79867575499E-01				3.79866190014E-01				1.38549E-06	+/- 2.7E-09
Total phase (deg)			-133.9		8.34678671171E-05				149.3	+/- 20.1
	RMS	Theor.	Amplitude	0.102 +/- 0.018	Pcal mode: MANUAL, MANUAL				PC period (AP's) 5, 5	
ph/seg (deg)	51.8	48.2	Search (2048X32)	0.099	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000 1.000
amp/seg (%)	78.5	84.1	Interp.	0.000	Bits/sample: 2x2				mb window (us)	-0.008 0.008
ph/frq (deg)	27.8	28.4	Inc. seg. avg.	0.111	Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011 0.011
amp/frq (%)	35.9	49.6	Inc. frq. avg.	0.097	Data rate(Mb/s): 2048				ion window (TEC)	0.00 0.00
g: az 3.0 el 28.1 pa -1.1			u: az 296.3 el 72.2 pa 101.7		u,v (fr/asec) -2790.959 8439.472					simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/gu..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/gu.W.56.1W5T8S

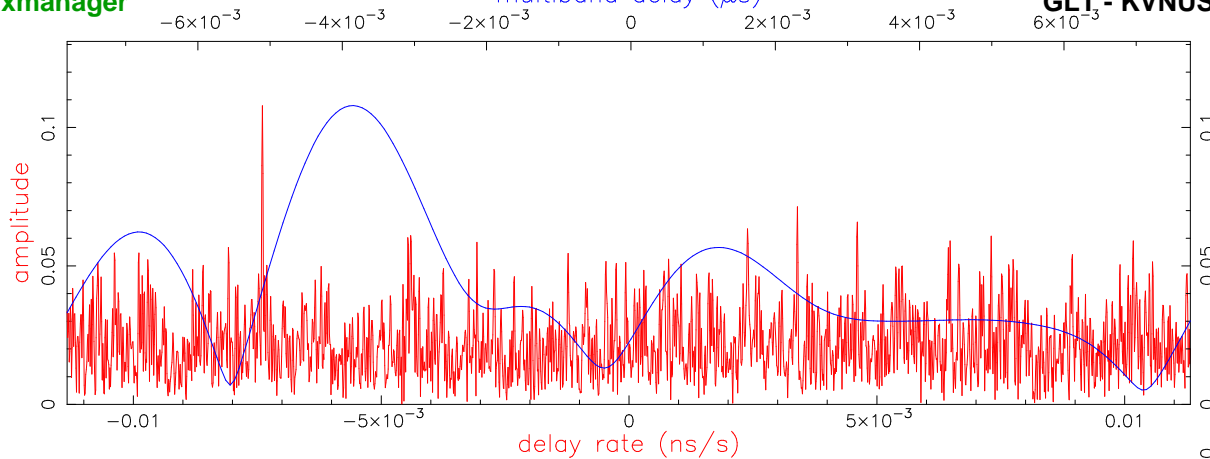
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W5T8S, No0182, gu

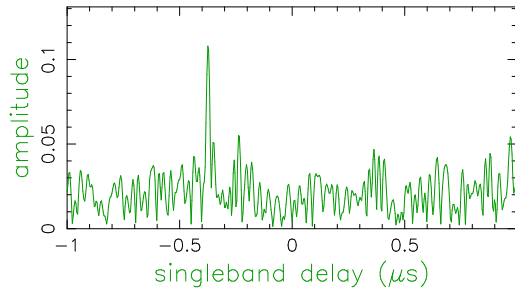
GLT - KVNUS, fgroup W, pol RL

multiband delay ( $\mu$ s)

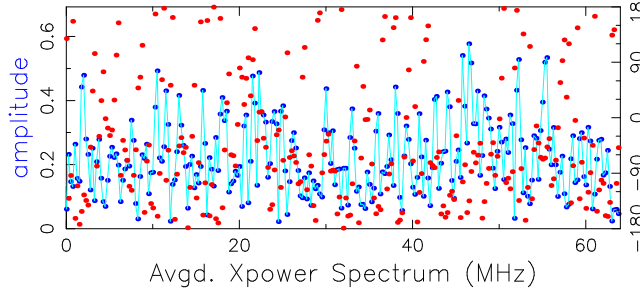


Fringe quality 0

SNR 6.1  
 Int time 419.827  
 Amp 0.131  
 Phase -36.7  
 PFD 2.2e-01  
 Delays (us)  
 SBD -0.373574  
 MBD -0.003823  
 Fringe rate (Hz)  
 -0.637906  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

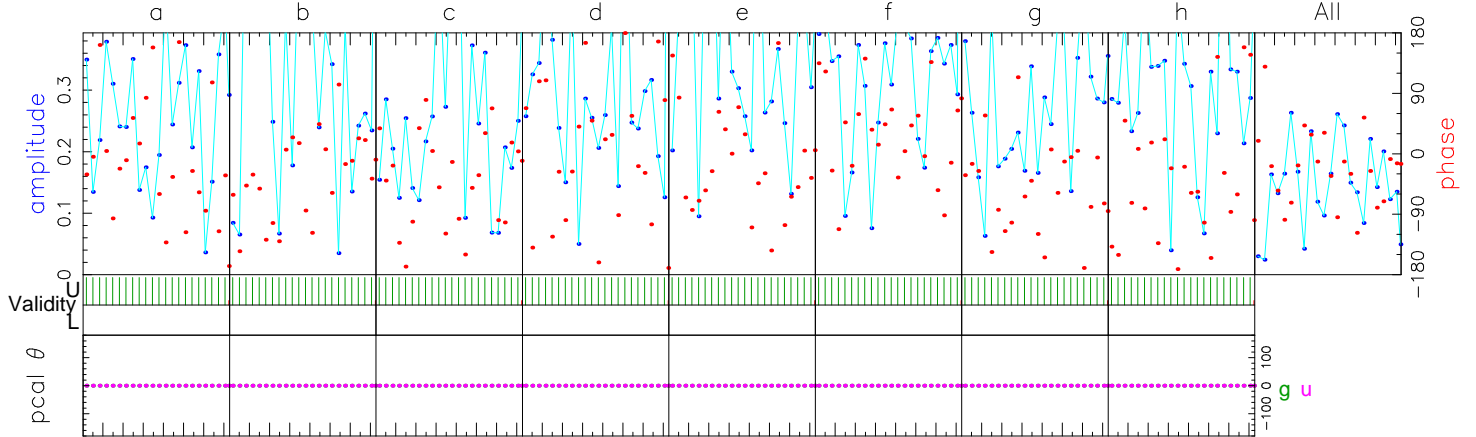


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060001.00  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010631  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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
	-52.6	-37.0	-39.3	124.7	-27.9	33.0	-61.2	-71.4	Phase	-36.7
	0.1	0.3	0.2	0.0	0.2	0.2	0.2	0.1	Ampl.	0.1
	163.2	161.2	312.4	470.1	506.4	362.7	458.4	445.2	Sbd box	161.4
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:u	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	
u	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.01903169677E+04	Apriori delay (usec)	-1.01899381447E+04	Resid mbdelay (usec)	-3.82297E-03	+/-	1.8E-04
Sband delay (usec)	-1.01903117187E+04	Apriori clock (usec)	-1.4076891E+01	Resid sbdelay (usec)	-3.73574E-01	+/-	1.4E-03
Phase delay (usec)	-1.01899381459E+04	Apriori clockrate (us/s)	-1.0670000E-06	Resid phdelay (usec)	-1.18496E-06	+/-	6.0E-07
Delay rate (us/s)	3.79858784559E-01	Apriori rate (us/s)	3.79866190014E-01	Resid rate (us/s)	-7.40546E-06	+/-	2.5E-09
Total phase (deg)	-319.9	Apriori accel (us/s/s)	8.34678671171E-05	Resid phase (deg)	-36.7	+/-	18.7

ph/seg (deg)	58.6	Theor.	44.9	Amplitude	0.131 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	72.0		78.3	Search (2048X32)	0.106	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	74.2		26.5	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	52.2		46.2	Inc. seg. avg.	0.137	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.137	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

g: az 3.0 el 28.1 pa -1.1      u: az 296.3 el 72.2 pa 101.7      u,v (fr/asec) -2790.959 8439.472      simultaneous interpolator

Control file: cf\_1234\_gmva      Input file: /Exps/c211a/v2/1234/No0182/gu..1W5T8S      Output file: /Exps/c211a/v2/1234/No0182/gu.W.75.1W5T8S

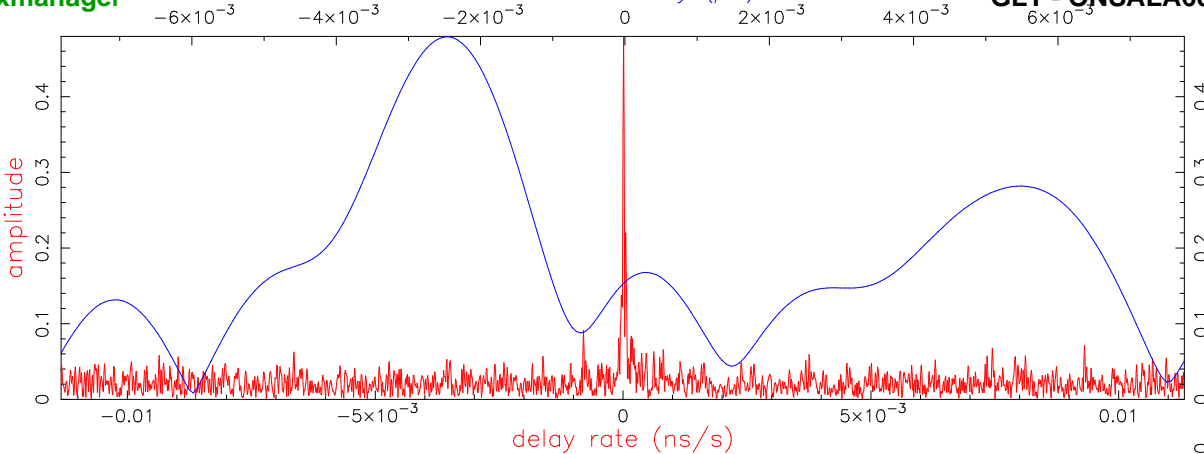
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W5T8S, No0182, gX

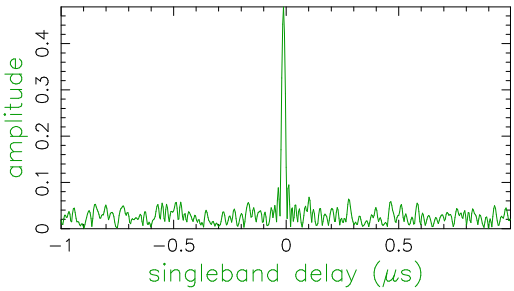
GLT - ONSALA60, fgroup W, pol LL

multiband delay ( $\mu$ s)

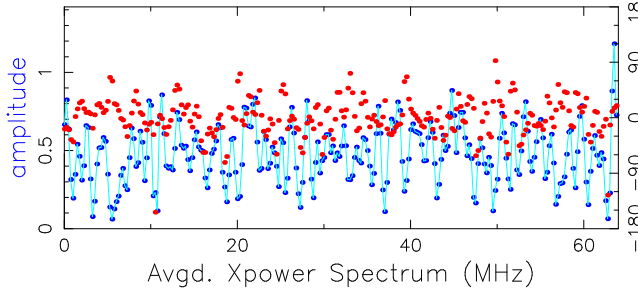


Fringe quality 7

SNR 26.9  
Int time 419.800  
Amp 0.480  
Phase -110.4  
PFD 0.0e+00  
Delays (us)  
SBD -0.012145  
MBD -0.002475  
Fringe rate (Hz)  
0.001051  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

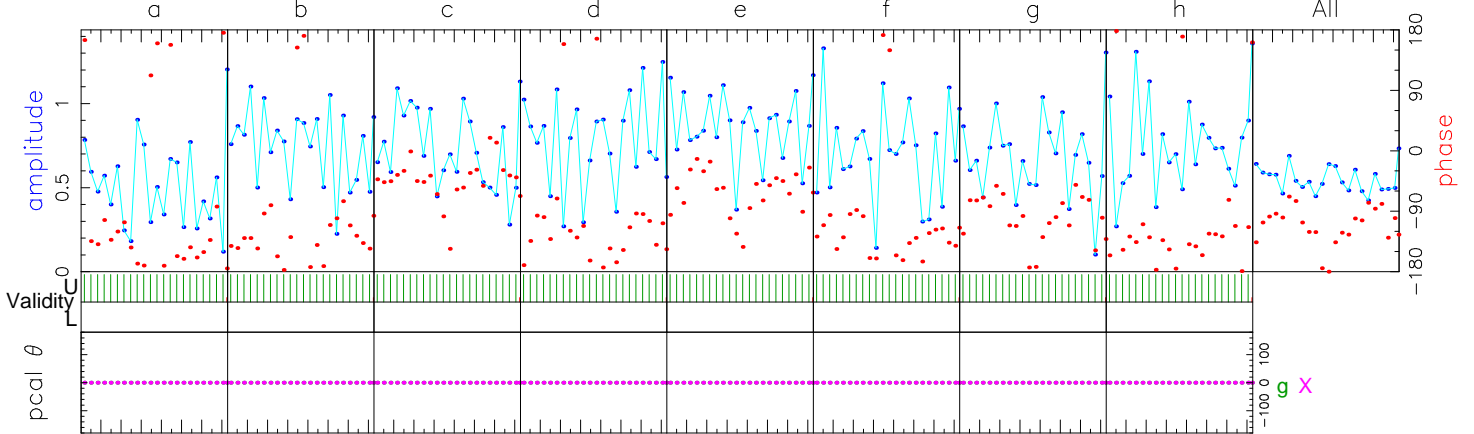


delay rate (ns/s)



Exp. c211a  
Exper # 16383  
Yr:day 2021:114  
Start 060001.00  
Stop 060700.84  
FRT 060331.00  
Corr/FF/build  
2021:286:170930  
2021:287:010619  
2021:252:122852  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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
	-154.9	-137.0	-40.7	-127.5	-58.5	-134.7	-93.5	-139.4	Phase	-110.4
	0.4	0.6	0.6	0.7	0.7	0.6	0.6	0.7	Ampl.	0.6
	256.1	253.9	253.3	253.2	253.6	253.3	253.3	253.9	Sbd box	253.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	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	

Group delay (usec)(sbd)	-1.17358999105E+03	Apriori delay (usec)	-1.17357189065E+03	Resid mbdelay (usec)	-2.47540E-03	+/-	4.0E-05
Sband delay (usec)	-1.17358403590E+03	Apriori clock (usec)	-5.5966476E+01	Resid sbdelay (usec)	-1.21453E-02	+/-	3.2E-04
Phase delay (usec)	-1.17357189421E+03	Apriori clockrate (us/s)	-4.6799999E-07	Resid phdelay (usec)	-3.56154E-06	+/-	1.4E-07
Delay rate (us/s)	-6.03607045086E-01	Apriori rate (us/s)	-6.03607057283E-01	Resid rate (us/s)	1.21964E-08	+/-	5.7E-10
Total phase (deg)	-348.3	Apriori accel (us/s/s)	1.57282642112E-05	Resid phase (deg)	-110.4	+/-	4.3

ph/seg (deg)	28.3	Theor.	10.2	Amplitude	0.480 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	20.0	Search (2048X32)	0.477	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	45.2	Inc. seg. avg.	0.536	Inc. frq. avg.	0.609	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	33.2	Inc. frq. avg.	0.609			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 3.0 el 28.1 pa -1.1 X: az 60.4 el 31.2 pa -39.1 u,v (fr/asec) 4642.848 1924.216 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/gX..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/gX.W.16.1W5T8S

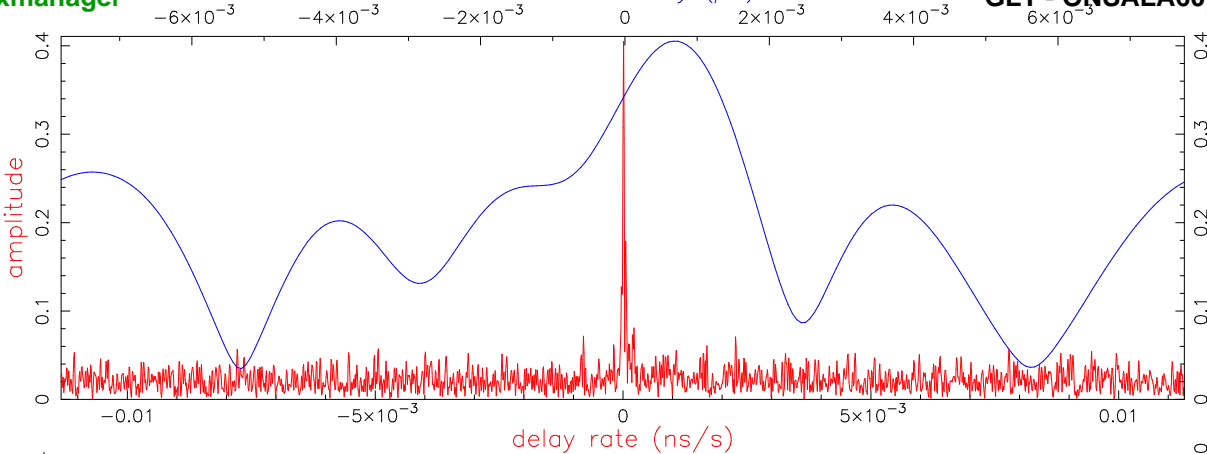
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W5T8S, No0182, gX

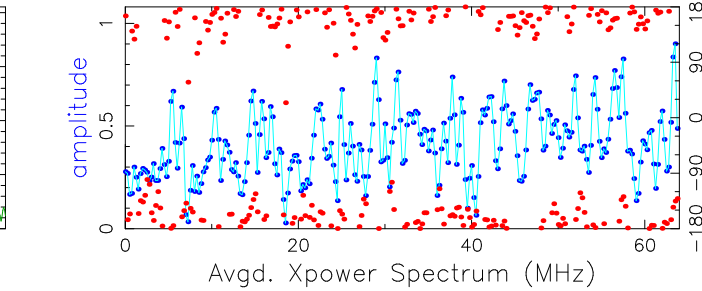
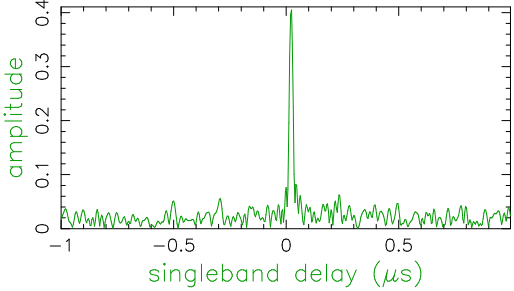
GLT - ONSALA60, fgroup W, pol RR

multiband delay ( $\mu$ s)



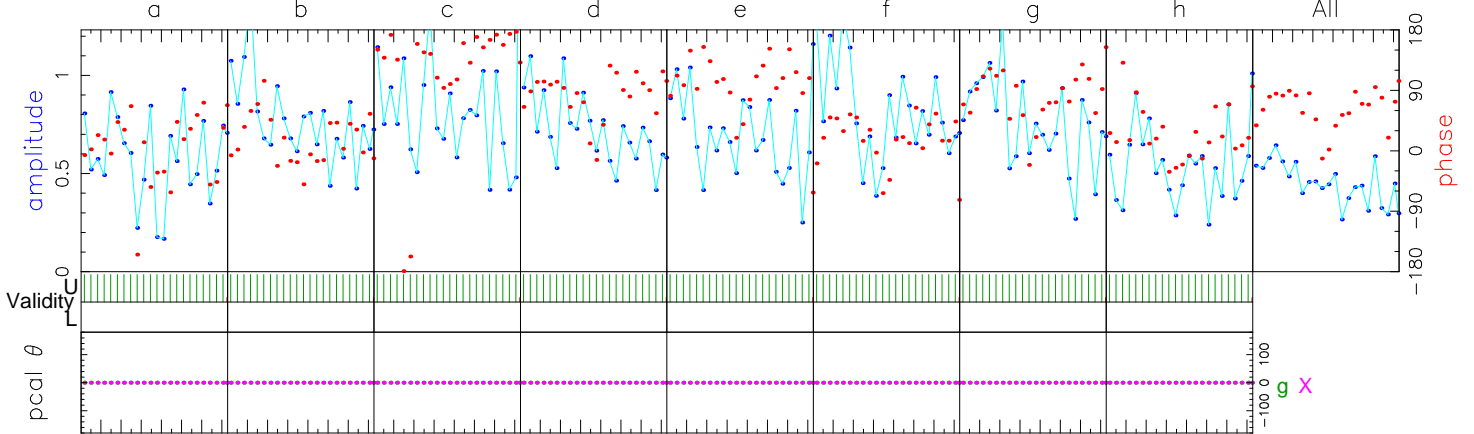
Fringe quality 7

SNR 23.0  
 Int time 419.797  
 Amp 0.411  
 Phase 64.4  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.021936  
 MBD 0.000640  
 Fringe rate (Hz)  
 0.001087  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060001.00  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010623  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
g	0	0	0	0	0	0	0	0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
g:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:X	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		
X	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.1735562552E+03									
Sband delay (usec)	-1.17354995515E+03									
Phase delay (usec)	-1.17357188857E+03									
Delay rate (us/s)	-6.03607044664E-01									
Total phase (deg)			-173.4							
Apriori delay (usec)									6.40135E-04	+/- 4.7E-05
Apriori clock (usec)									2.19355E-02	+/- 3.7E-04
Apriori clockrate (us/s)									2.07700E-06	+/- 1.6E-07
Apriori rate (us/s)									1.26187E-08	+/- 6.6E-10
Apriori accel (us/s/s)									64.4	+/- 5.0
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)									-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										

ph/seg (deg) 28.6 11.9 Search (2048X32) 0.397 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 26.8 20.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 54.5 7.0 Inc. seg. avg. 0.447 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 51.2 12.3 Inc. frq. avg. 0.599 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 3.0 el 28.1 pa -1.1 X: az 60.4 el 31.2 pa -39.1 u,v (fr/asec) 4642.848 1924.216 ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/gX..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/gX.W.35.1W5T8S

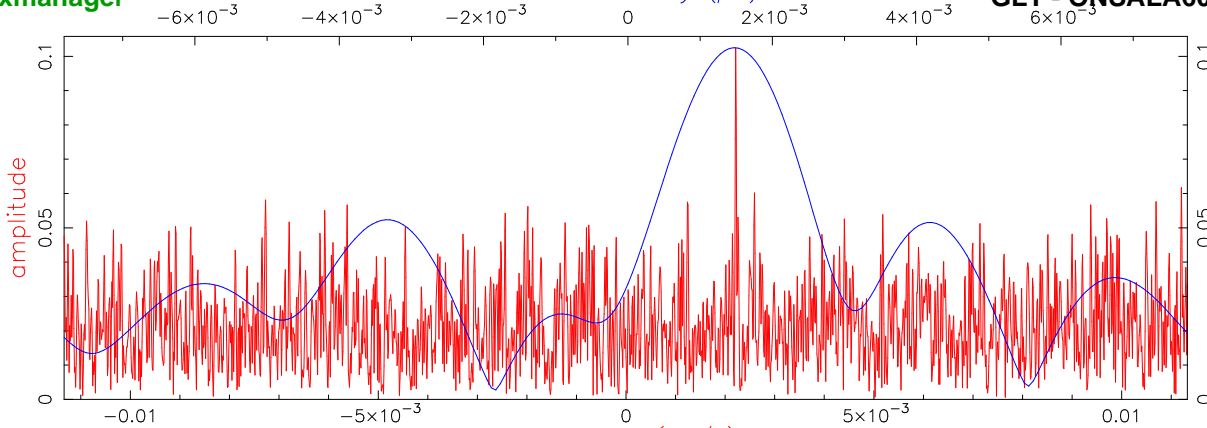
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

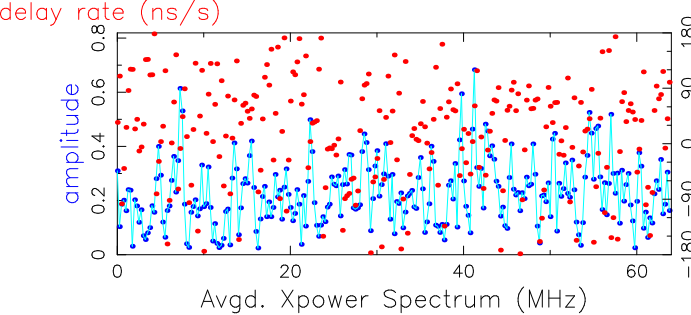
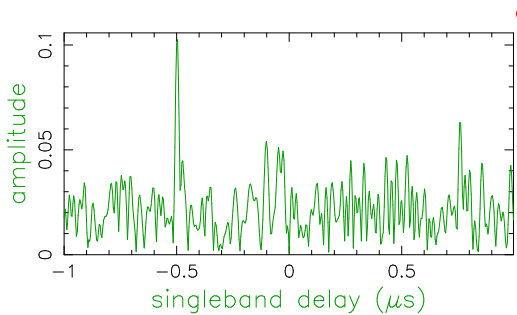
3C84.1W5T8S, No0182, gX

GLT - ONSALA60, fgroup W, pol LR

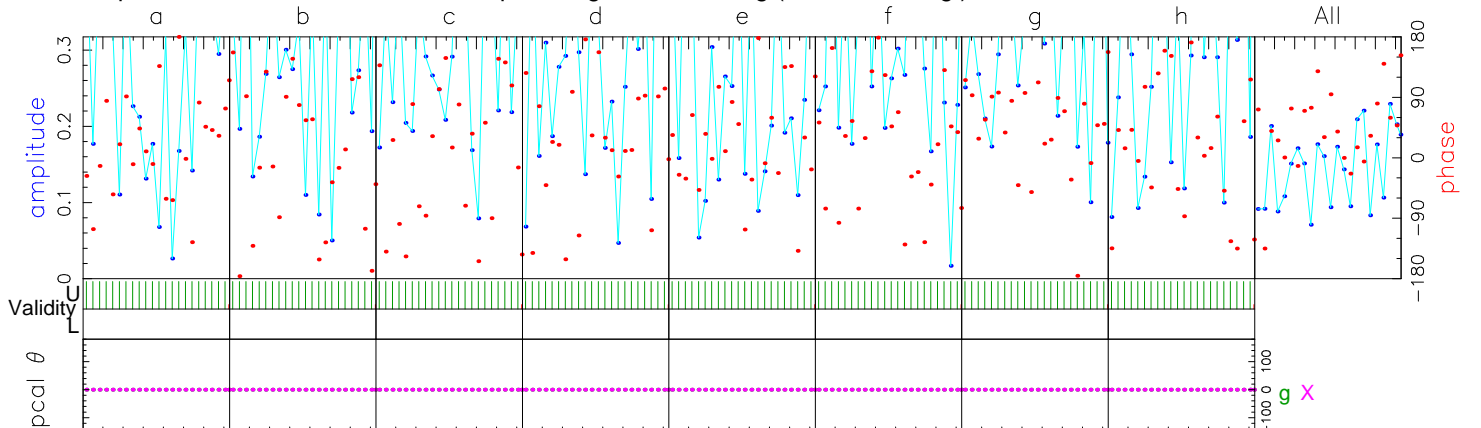
multiband delay ( $\mu$ s)



Fringe quality 0  
 SNR 5.8  
 Int time 419.800  
 Amp 0.106  
 Phase 44.0  
 PFD 7.4e-01  
 Delays (us)  
 SBD -0.497683  
 MBD 0.001462  
 Fringe rate (Hz)  
 0.190746  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060001.00  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010627  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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
30.9	83.8	42.9	71.7	18.4	20.4	56.8	40.9	44.0	Phase	44.0
0.2	0.1	0.0	0.1	0.2	0.1	0.2	0.1	0.1	Ampl.	0.1
18.0	279.7	428.2	502.5	461.8	264.2	130.0	415.8	129.6	Sbd box	129.6
U/L 820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
g 0	0	0	0	0	0	0	0	0	PC freqs	
X 1000	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	0:0	PC phase	
g:X 0:0	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	1000	PC amp	
X 1000	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	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.17407042826E+03		Apriori delay (usec)	-1.17357189065E+03		Resid mbdelay (usec)	1.46239E-03	+/-	1.9E-04	
Sband delay (usec)	-1.17406957315E+03		Apriori clock (usec)	-5.5966476E+01		Resid sbdelay (usec)	-4.97683E-01	+/-	1.5E-03	
Phase delay (usec)	-1.17357188923E+03		Apriori clockrate (us/s)	-4.6799999E-07		Resid phdelay (usec)	1.41765E-06	+/-	6.3E-07	
Delay rate (us/s)	-6.03604842908E-01		Apriori rate (us/s)	-6.03607057283E-01		Resid rate (us/s)	2.21438E-06	+/-	2.6E-09	
Total phase (deg)		-193.8	Apriori accel (us/s/s)	1.57282642112E-05		Resid phase (deg)	44.0	+/-	19.6	

ph/seg (deg) 57.5 47.1 Search (2048X32) 0.101 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 61.7 82.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 25.5 27.8 Inc. seg. avg. 0.111 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 57.8 48.5 Inc. frq. avg. 0.100 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 3.0 el 28.1 pa -1.1 X: az 60.4 el 31.2 pa -39.1 u,v (fr/asec) 4642.848 1924.216 ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/gX..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/gX.W.53.1W5T8S simultaneous interpolator

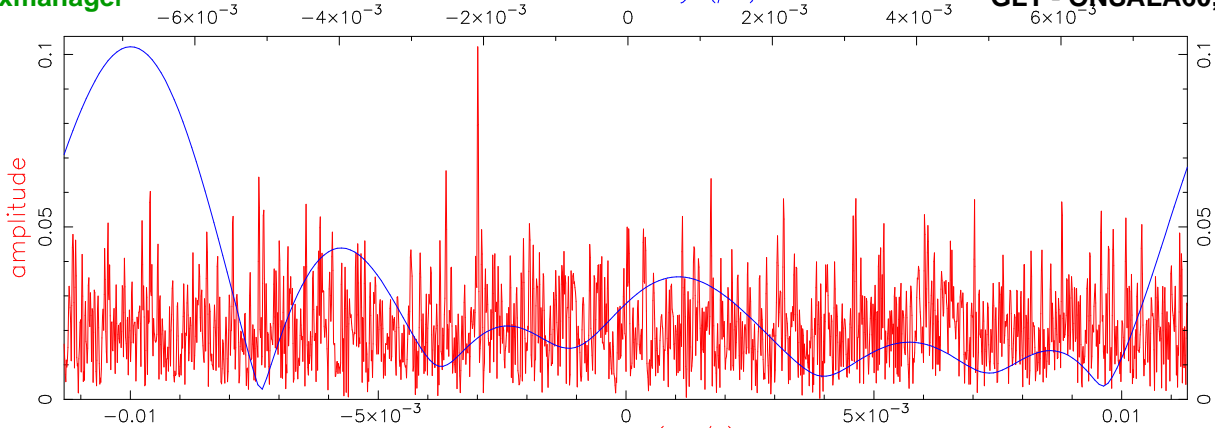
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W5T8S, No0182, gX

GLT - ONSALA60, fgroup W, pol RL

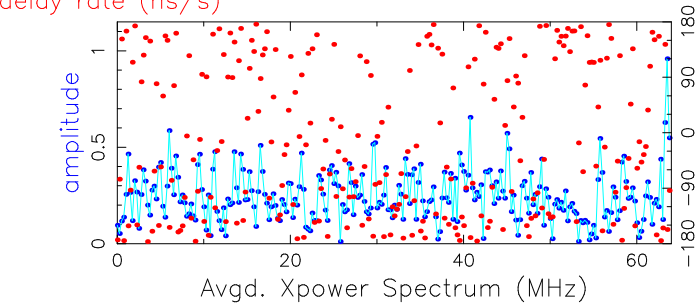
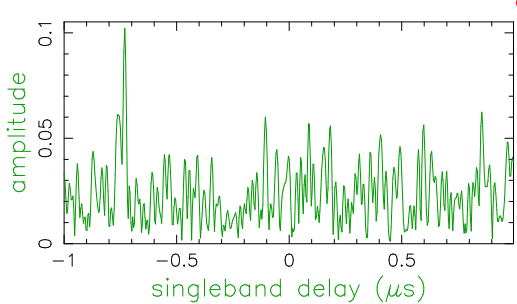
multiband delay ( $\mu$ s)



Fringe quality 0

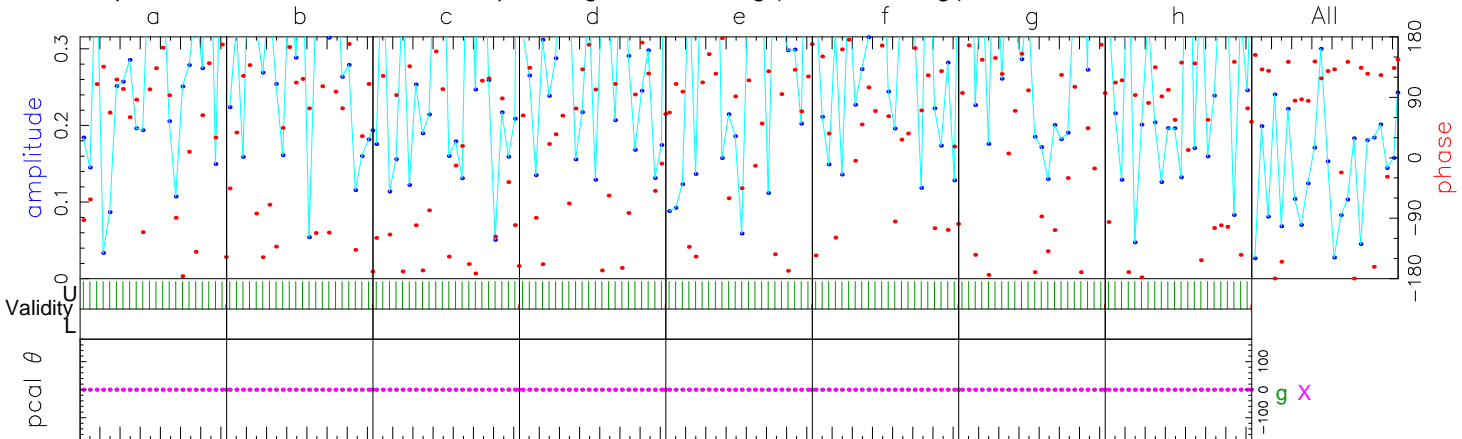
SNR 5.7  
 Int time 419.797  
 Amp 0.105  
 Phase 137.8  
 PFD 9.2e-01  
 Delays (us)  
 SBD -0.730463  
 MBD -0.006890  
 Fringe rate (Hz)  
 -0.258326  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060001.00  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010631  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
g	0	0	0	0	0	0	0	0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
g:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:X	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		
X	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.17429753076E+03									
Sband delay (usec)	-1.17430235340E+03									
Phase delay (usec)	-1.17357188621E+03									
Delay rate (us/s)	-6.03610056194E-01									
Total phase (deg)			-100.0							
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)									137.8	+/- 20.0
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								
PC period (AP's)	5									
SampCntNorm:	enabled									
simultaneous interpolator										

g: az 3.0 el 28.1 pa -1.1 X: az 60.4 el 31.2 pa -39.1 u,v (fr/asec) 4642.848 1924.216

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/gX..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/gX.W.76.1W5T8S

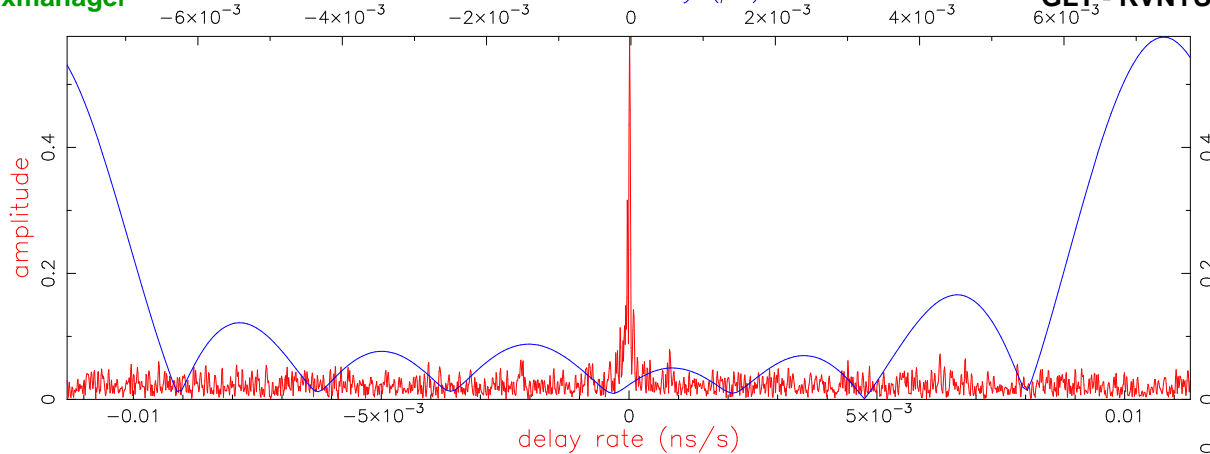
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W5T8S, No0182, gy

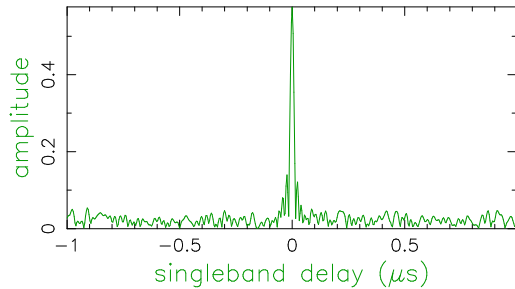
GLT - KVNYS, fgroup W, pol RR

multiband delay ( $\mu$ s)

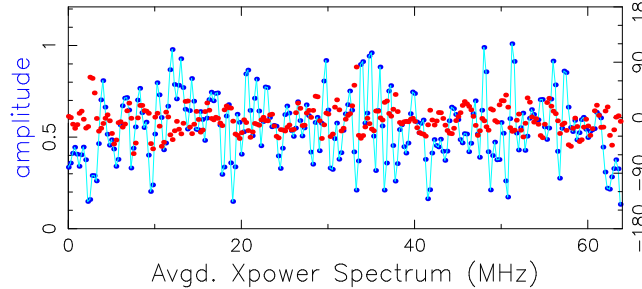


Fringe quality 8

SNR 32.3  
 Int time 419.654  
 Amp 0.576  
 Phase -97.1  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.000550  
 MBD 0.007384  
 Fringe rate (Hz)  
 0.001229  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

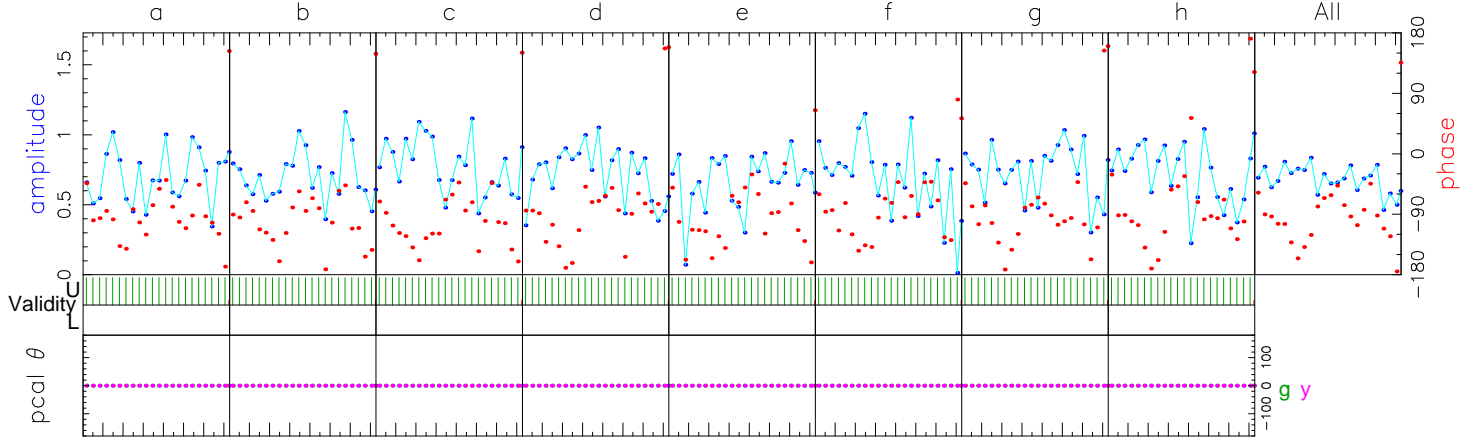


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060001.00  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010621  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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
	-93.5	-96.3	-105.0	-95.7	-97.1	-90.4	-99.3	-98.8	Phase	-97.1
	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.5	Ampl.	0.6
	257.2	256.9	256.8	256.9	257.2	256.7	256.7	256.7	Sbd box	256.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:y	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	
y	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.04503523003E+04		Apriori delay (usec)		-1.04503440597E+04		Resid mbdelay (usec)		7.38442E-03	+/- 3.4E-05
Sband delay (usec)	-1.04503446097E+04		Apriori clock (usec)		-2.7945137E-01		Resid sbdelay (usec)		-5.50000E-04	+/- 2.7E-04
Phase delay (usec)	-1.04503440628E+04		Apriori clockrate (us/s)		5.9999999E-08		Resid phdelay (usec)		-3.13159E-06	+/- 1.1E-07
Delay rate (us/s)	3.36037212664E-01		Apriori rate (us/s)		3.36037198393E-01		Resid rate (us/s)		1.42704E-08	+/- 4.7E-10
Total phase (deg)			Apriori accel (us/s/s)		8.28068316944E-05		Resid phase (deg)		-97.1	+/- 3.5

ph/seg (deg) 34.7 8.5 Theor. Amplitude 0.576 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 24.7 14.9 Search (2048X32) 0.563 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 4.7 5.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 7.0 8.8 Inc. seg. avg. 0.676 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 g: az 3.0 el 28.1 pa -1.1 y: az 291.2 el 74.7 pa 97.8 u,v (fr/asec) -2455.974 8203.104 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/gy..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/gy.W.24.1W5T8S simultaneous interpolator

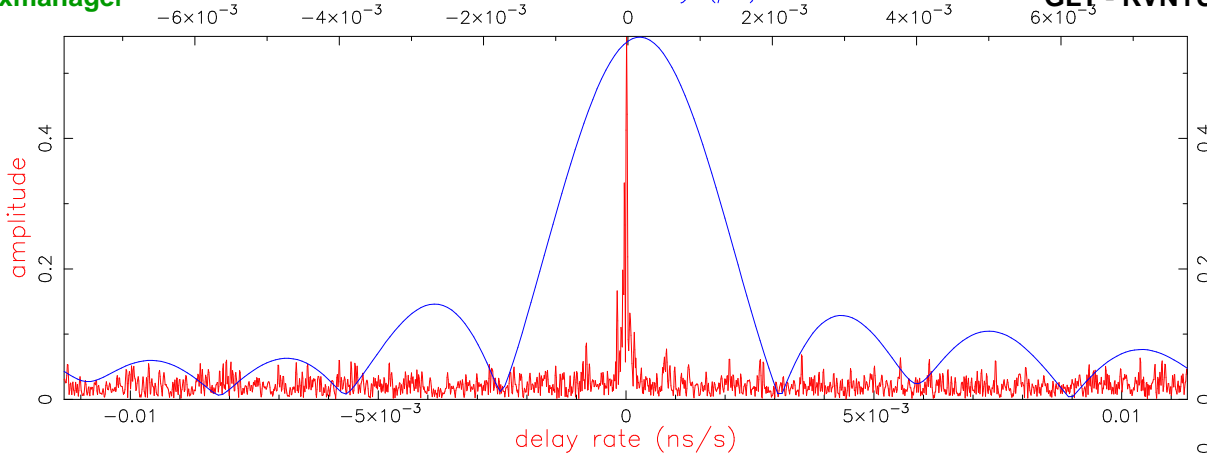
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W5T8S, No0182, gy

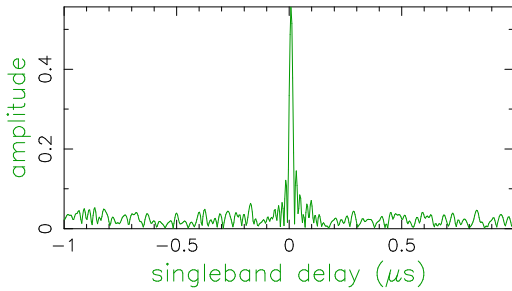
GLT - KVNYS, fgroup W, pol LL

multiband delay ( $\mu$ s)

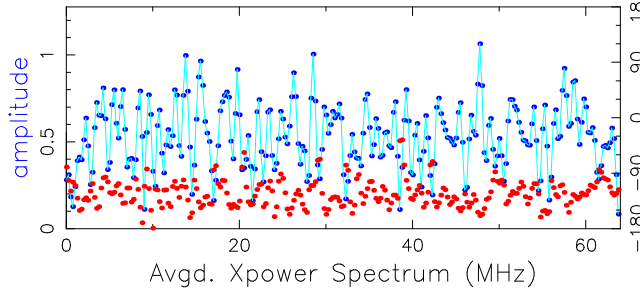


Fringe quality 8

SNR 31.2  
 Int time 419.658  
 Amp 0.557  
 Phase -30.7  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.008326  
 MBD 0.000164  
 Fringe rate (Hz) 0.001262  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512

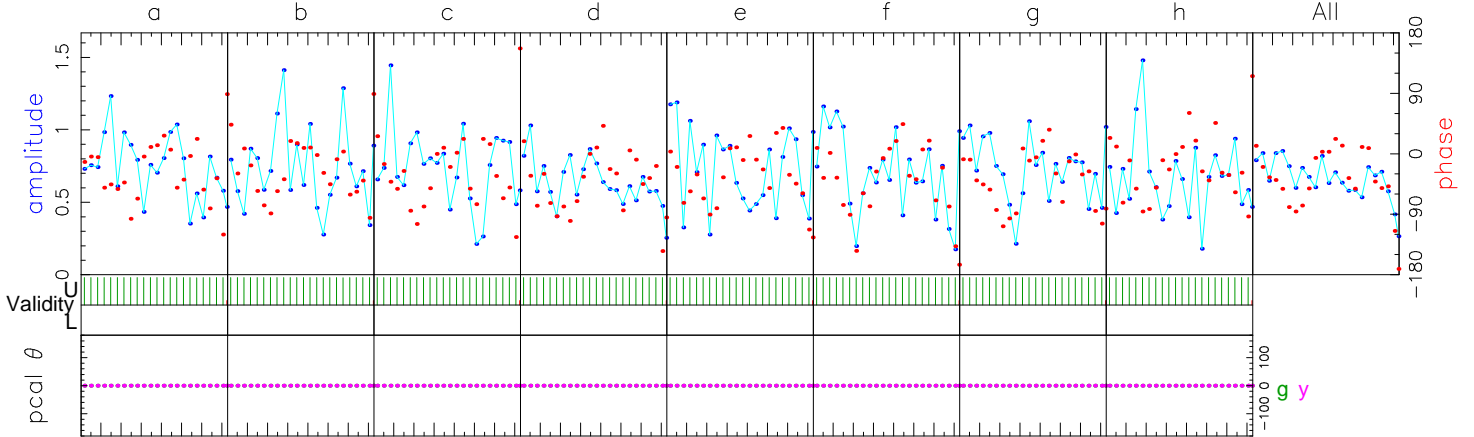


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060001.00  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010618  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
g	0	0	0	0	0	0	0	0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
g:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:y	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		
y	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.04503282705E+04	Apriori delay (usec)	-1.04503440597E+04	Resid mbdelay (usec)	1.64228E-04	+/-	3.5E-05
Sband delay (usec)	-1.04503357332E+04	Apriori clock (usec)	-2.7945137E-01	Resid sbdelay (usec)	8.32650E-03	+/-	2.8E-04
Phase delay (usec)	-1.04503440607E+04	Apriori clockrate (us/s)	5.9999999E-08	Resid phdelay (usec)	-9.91207E-07	+/-	1.2E-07
Delay rate (us/s)	3.36037213042E-01	Apriori rate (us/s)	3.36037198393E-01	Resid rate (us/s)	1.46487E-08	+/-	4.9E-10
Total phase (deg)	-140.1	Apriori accel (us/s/s)	8.28068316944E-05	Resid phase (deg)	-30.7	+/-	3.7

ph/seg (deg)	38.4	Theor.	8.8	Amplitude	0.557 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	29.9		15.4	Search (2048X32)	0.535	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	4.6		5.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	7.0		9.1	Inc. seg. avg.	0.669	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.555	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

g: az 3.0 el 28.1 pa -1.1

y: az 291.2 el 74.7 pa 97.8

u,v (fr/asec) -2455.974 8203.104

simultaneous interpolator

Control file: cf\_1234\_gmva

Input file: /Exps/c211a/v2/1234/No0182/gy..1W5T8S

Output file: /Exps/c211a/v2/1234/No0182/gy.W.4.1W5T8S



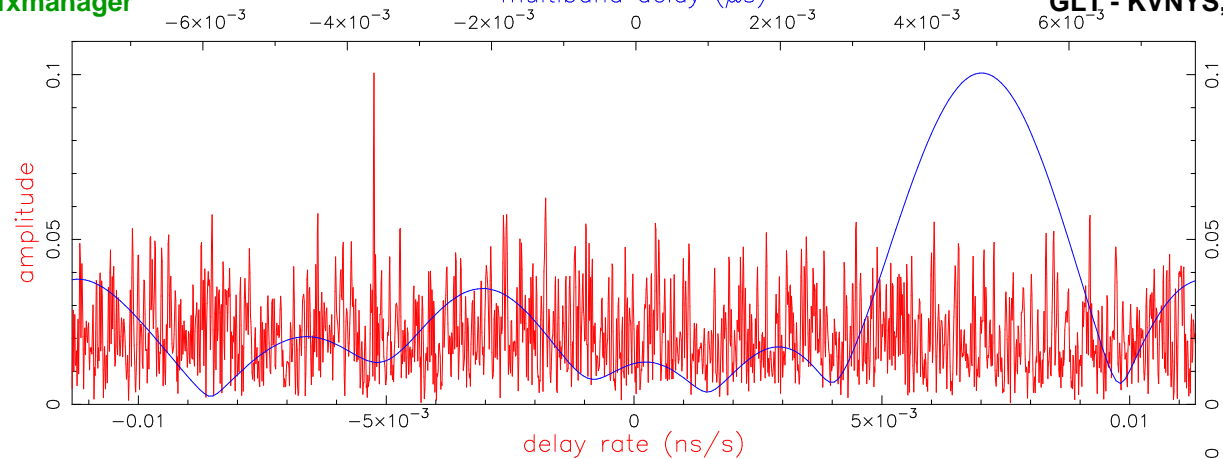
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W5T8S, No0182, gy

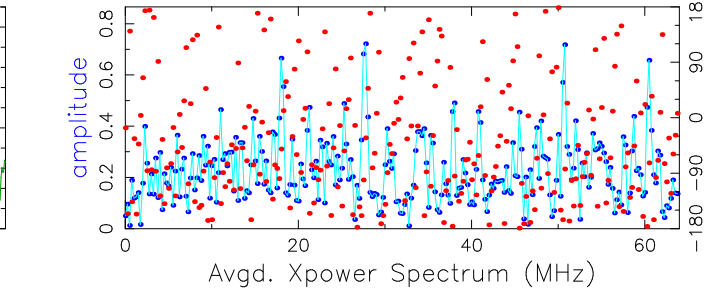
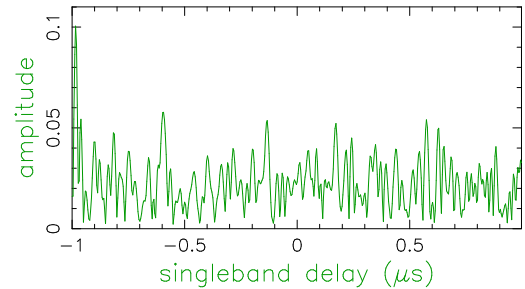
GLT - KVNYS, fgroup W, pol LR

multiband delay ( $\mu$ s)



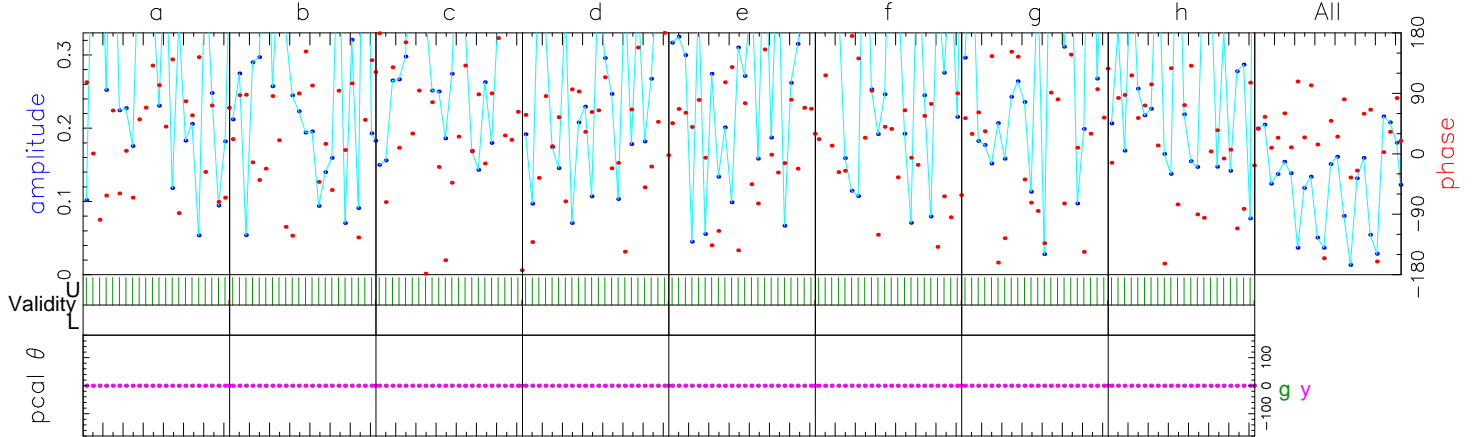
Fringe quality 0

SNR 5.6  
 Int time 419.658  
 Amp 0.110  
 Phase 39.5  
 PFD 9.9e-01  
 Delays (us)  
 SBD -0.983954  
 MBD 0.004805  
 Fringe rate (Hz)  
 -0.452267  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060001.00  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010625  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0				
g	0	0	0	0	0	0	0	0				
y	1000	1000	1000	1000	1000	1000	1000	1000				
g:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0				
g:y	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				
y	1000	1000	1000	1000	1000	1000	1000	1000				
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL				
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR				
Group delay (usec)(sbd)		-1.04513236297E+04				-1.04503440597E+04			4.80500E-03	+/- 1.9E-04		
Sband delay (usec)		-1.04513280135E+04				-2.7945137E-01			-9.83954E-01	+/- 1.5E-03		
Phase delay (usec)		-1.04503440584E+04				5.9999999E-08			1.27472E-06	+/- 6.6E-07		
Delay rate (us/s)		3.36031948023E-01				3.36037198393E-01			-5.25037E-06	+/- 2.7E-09		
Total phase (deg)			-69.8			8.28068316944E-05			39.5	+/- 20.3		
	RMS	Theor.	Amplitude	0.110 +/- 0.020		PCal mode: MANUAL, MANUAL			PC period (AP's) 5, 5			
ph/seg (deg)	60.6	48.7	Search (2048X32)	0.097		PCal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us)	-1.000 1.000		
amp/seg (%)	65.5	85.1	Interp.	0.000		Bits/sample: 2x2			SampCntNorm: enabled	mb window (us)	-0.008 0.008	
ph/frq (deg)	22.5	28.7	Inc. seg. avg.	0.099		Sample rate(MISamp/s): 128			dr window (ns/s)	-0.011 0.011		
amp/frq (%)	24.6	50.2	Inc. frq. avg.	0.104		Data rate(Mb/s): 2048			nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00
g: az 3.0 el 28.1 pa -1.1			y: az 291.2 el 74.7 pa 97.8			u,v (fr/asec) -2455.974 8203.104					simultaneous interpolator	

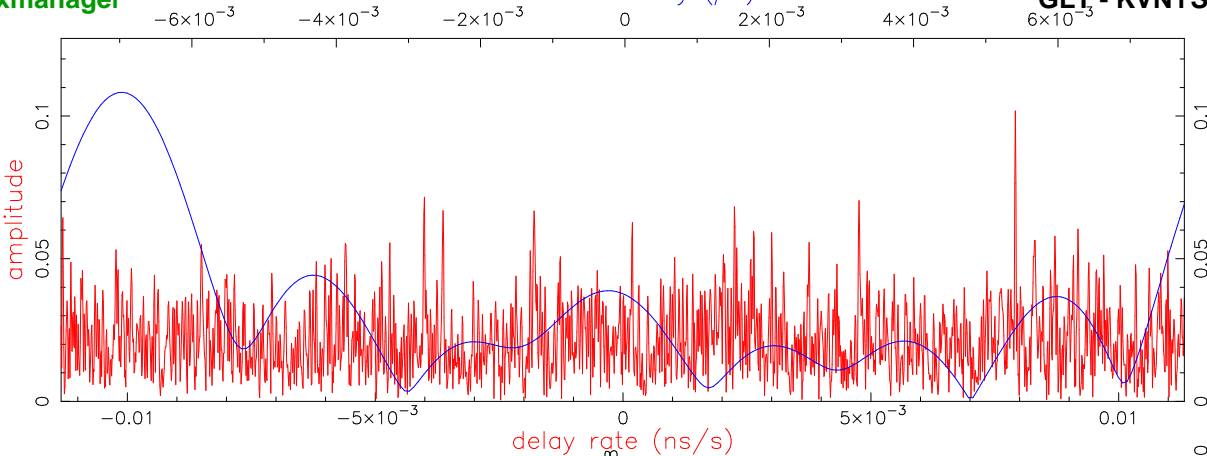
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W5T8S, No0182, gy

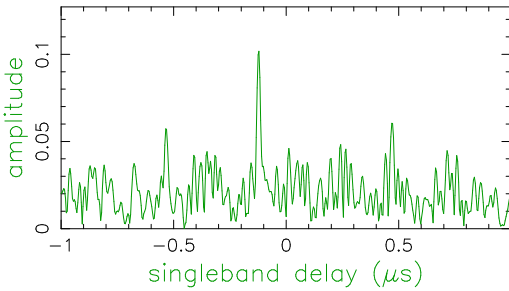
GLT - KVNYS, fgroup W, pol RL

multiband delay ( $\mu$ s)

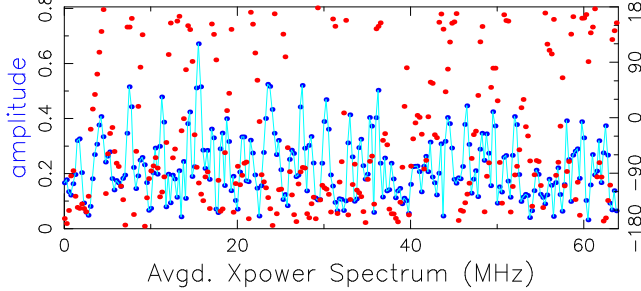


Fringe quality 0

SNR 5.8  
 Int time 419.654  
 Amp 0.127  
 Phase 158.4  
 PFD 8.5e-01  
 Delays (us)  
 SBD -0.122598  
 MBD 0.008301  
 Fringe rate (Hz)  
 0.682686  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

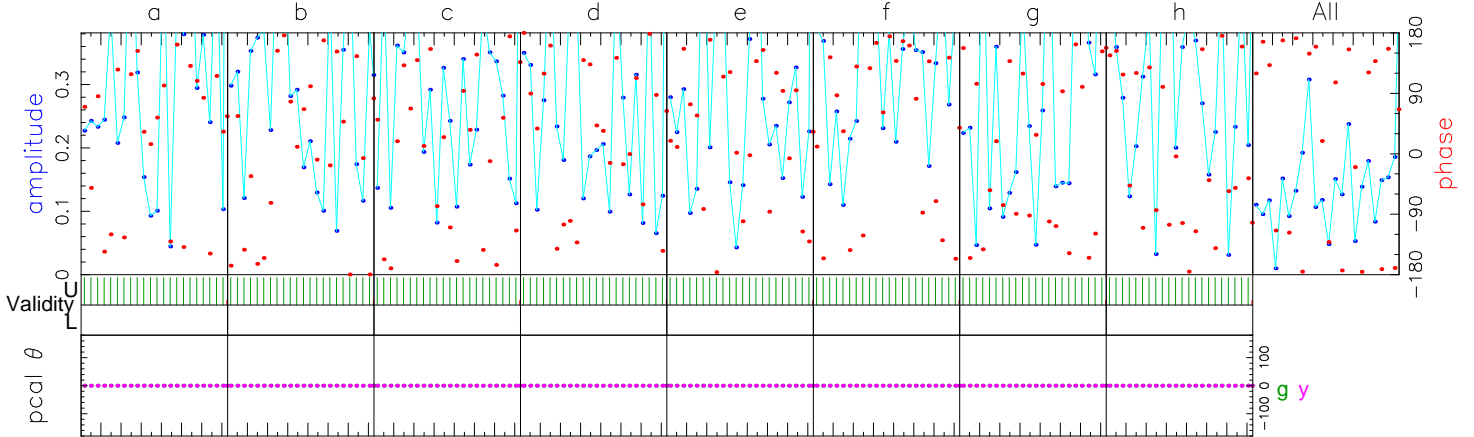


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060001.00  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010630  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
g	0	0	0	0	0	0	0	0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
g:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:y	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		
y	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.04504607589E+04								8.30078E-03	+/- 1.9E-04
Sband delay (usec)	-1.04504666580E+04								-1.22598E-01	+/- 1.5E-03
Phase delay (usec)	-1.04503440546E+04								5.10950E-06	+/- 6.4E-07
Delay rate (us/s)	3.36045123695E-01								7.92530E-06	+/- 2.6E-09
Total phase (deg)			49.1						158.4	+/- 19.8
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)									-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) 61.4 47.6 Search (2048X32) 0.105 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 73.5 83.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 27.3 28.0 Inc. seg. avg. 0.125 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 35.5 49.0 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 3.0 el 28.1 pa -1.1 y: az 291.2 el 74.7 pa 97.8 u,v (fr/asec) -2455.974 8203.104 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/No0182/gy..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/gy.W.64.1W5T8S simultaneous interpolator

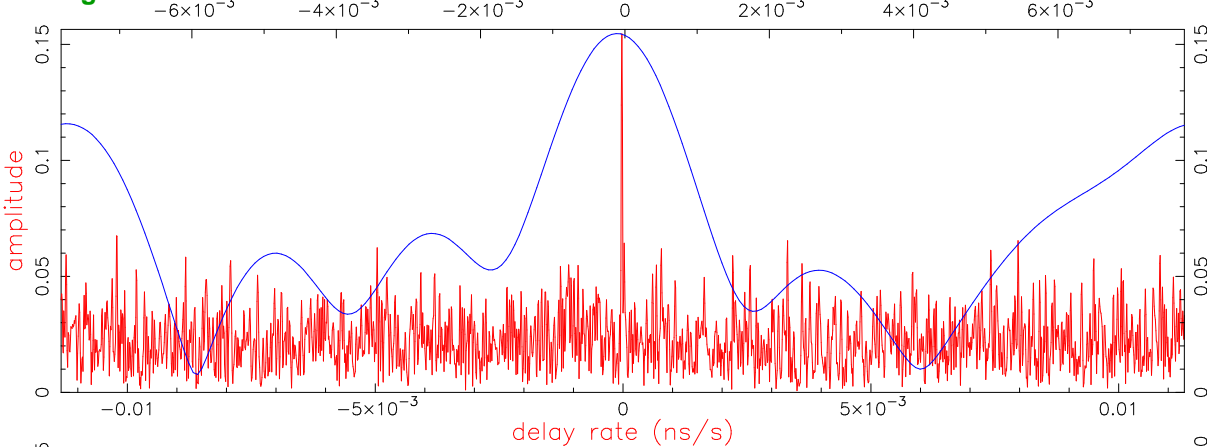
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W5T8S, No0182, gZ

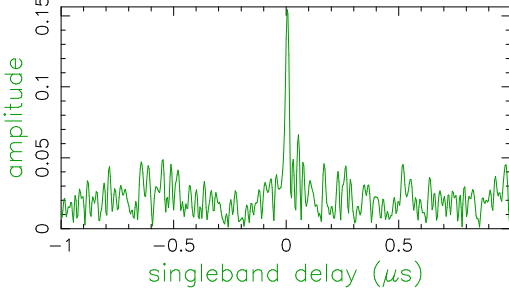
GLT - METSAHOV, fgroup W, pol LL

multiband delay ( $\mu$ s)

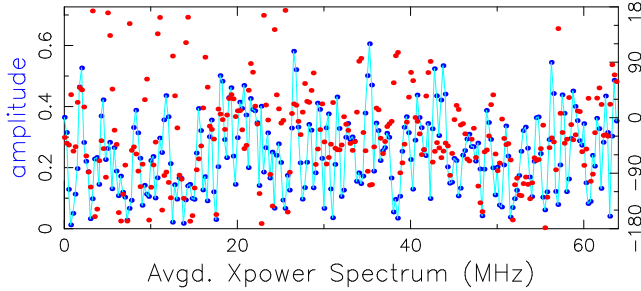


Fringe quality 9

SNR 8.6  
 Int time 405.640  
 Amp 0.156  
 Phase 33.5  
 PFD 2.5e-09  
 Delays (us)  
 SBD 0.005401  
 MBD -0.000070  
 Fringe rate (Hz)  
 -0.002387  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

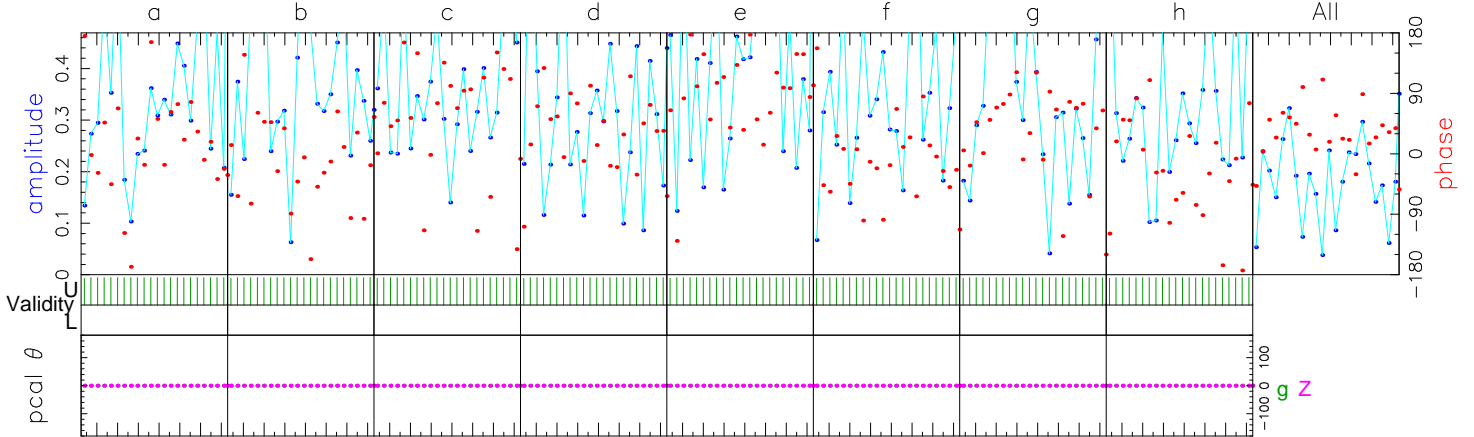


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060014.31  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010619  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 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	794/0	794/0	794/0	794/0	794/0	794/0	794/0	794/0		
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		
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)	-3.25569972577E+03	Apriori delay (usec)	-3.25569965599E+03	Resid mbdelay (usec)	-6.97742E-05	+/-	1.3E-04
Sband delay (usec)	-3.25569425524E+03	Apriori clock (usec)	1.1433353E+00	Resid sbdelay (usec)	5.40075E-03	+/-	1.0E-03
Phase delay (usec)	-3.25569965491E+03	Apriori clockrate (us/s)	4.4000001E-08	Resid phdelay (usec)	1.07958E-06	+/-	4.3E-07
Delay rate (us/s)	-5.52166177295E-01	Apriori rate (us/s)	-5.52166149582E-01	Resid rate (us/s)	-2.77131E-08	+/-	1.8E-09
Total phase (deg)	-98.7	Apriori accel (us/s/s)	2.51868267555E-05	Resid phase (deg)	33.5	+/-	13.3

ph/seg (deg)	36.4	Theor.	31.9	Amplitude	0.156 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	51.5	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)	52.9	Inc. seg. avg.	0.155	Inc. frq. avg.	0.205	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	47.1	Inc. frq. avg.	0.205			Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
g: az 3.0 el 28.1 pa -1.1		Z: az 71.0 el 38.2 pa -38.7		u, v (fr/asec)	4263.238 2417.058	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
Control file: cf_1234_gmva		Input file: /Exps/c211a/v2/1234/No0182/gZ..1W5T8S		Output file: /Exps/c211a/v2/1234/No0182/gZ.W.14.1W5T8S			ion window (TEC) 0.00 0.00

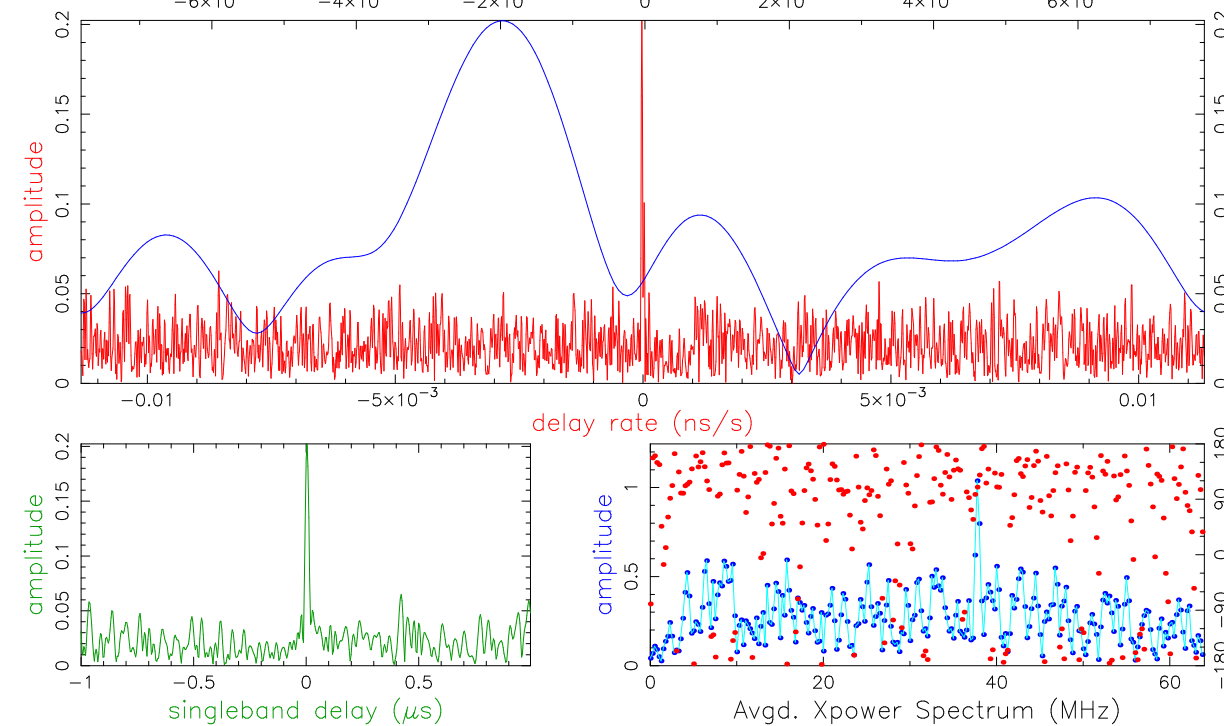
simultaneous interpolator

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

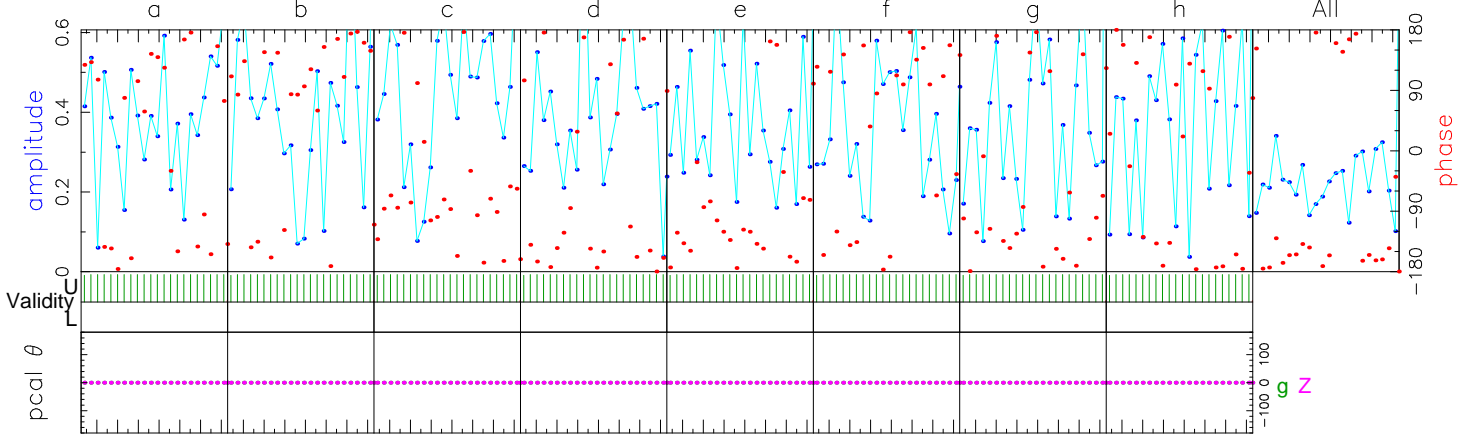
3C84.1W5T8S, No0182, gZ

GLT - METSAHOV, fgroup W, pol RR



Fringe quality 9  
 SNR 11.1  
 Int time 405.637  
 Amp 0.202  
 Phase -165.7  
 PFD 3.7e-20  
 Delays (us)  
 SBD 0.003483  
 MBD -0.001989  
 Fringe rate (Hz)  
 -0.002309  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060014.31  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010623  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 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	163.1	153.7	-94.7	-169.9	-121.3	158.3	-165.7	173.6	Phase	-165.7
g:Z	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.2	Ampl.	0.3
g:Z	260.1	258.1	258.3	257.3	257.2	256.7	257.0	258.9	Sbd box	257.9
g:Z	794/0	794/0	794/0	794/0	794/0	794/0	794/0	794/0	APs used	
g:Z	0	0	0	0	0	0	0	0	PC freqs	
g: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:Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g:Z	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -3.25570164547E+03 Apriori delay (usec) -3.25569965599E+03 Resid mbdelay (usec) -1.98947E-03 +/- 9.7E-05  
 Sband delay (usec) -3.25569617274E+03 Apriori clock (usec) 1.1433353E+00 Resid sbdelay (usec) 3.48325E-03 +/- 7.7E-04  
 Phase delay (usec) -3.25569966133E+03 Apriori clockrate (us/s) 4.4000001E-08 Resid phdelay (usec) -5.34287E-06 +/- 3.3E-07  
 Delay rate (us/s) -5.52166176387E-01 Apriori rate (us/s) -5.52166149582E-01 Resid rate (us/s) -2.68054E-08 +/- 1.4E-09  
 Total phase (deg) -297.8 Apriori accel (us/s/s) 2.51868267555E-05 Resid phase (deg) -165.7 +/- 10.3

RMS Theor. Amplitude 0.202 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 34.6 24.7 Search (2048X32) 0.193 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 35.7 43.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 43.5 14.5 Inc. seg. avg. 0.206 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 34.2 25.4 Inc. frq. avg. 0.250 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 g: az 3.0 el 28.1 pa -1.1 Z: az 71.0 el 38.2 pa -38.7 u,v (fr/asec) 4263.238 2417.058 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/gz..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/gz.W.32.1W5T8S

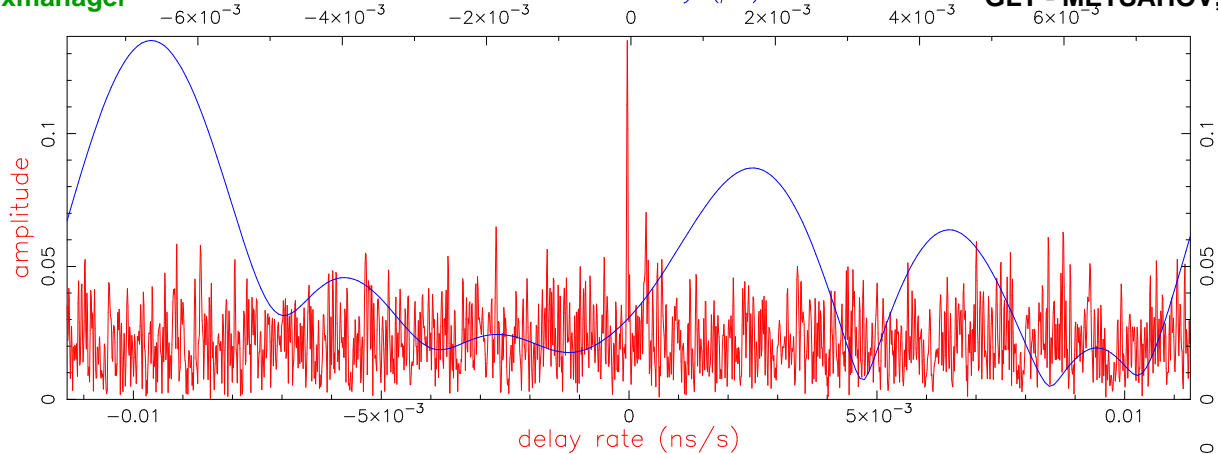
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W5T8S, No0182, gZ

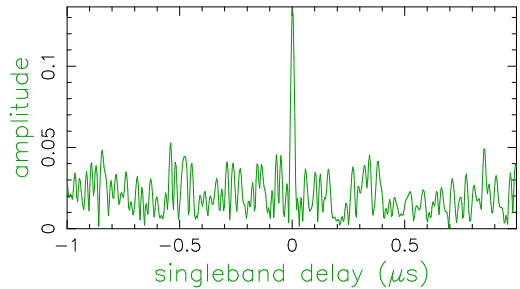
GLT - METSAHOV, fgroup W, pol LR

multiband delay ( $\mu$ s)

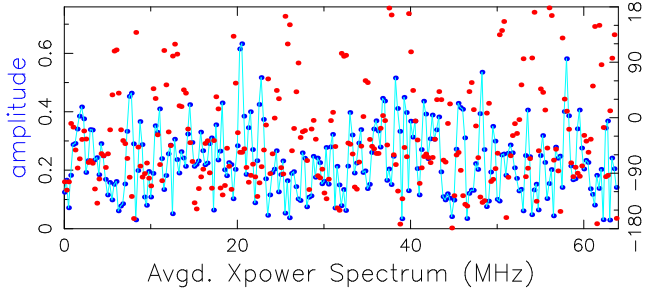


Fringe quality 9

SNR 7.5  
 Int time 405.640  
 Amp 0.137  
 Phase 29.1  
 PFD 1.8e-05  
 Delays (us)  
 SBD 0.001411  
 MBD -0.006610  
 Fringe rate (Hz)  
 -0.002607  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

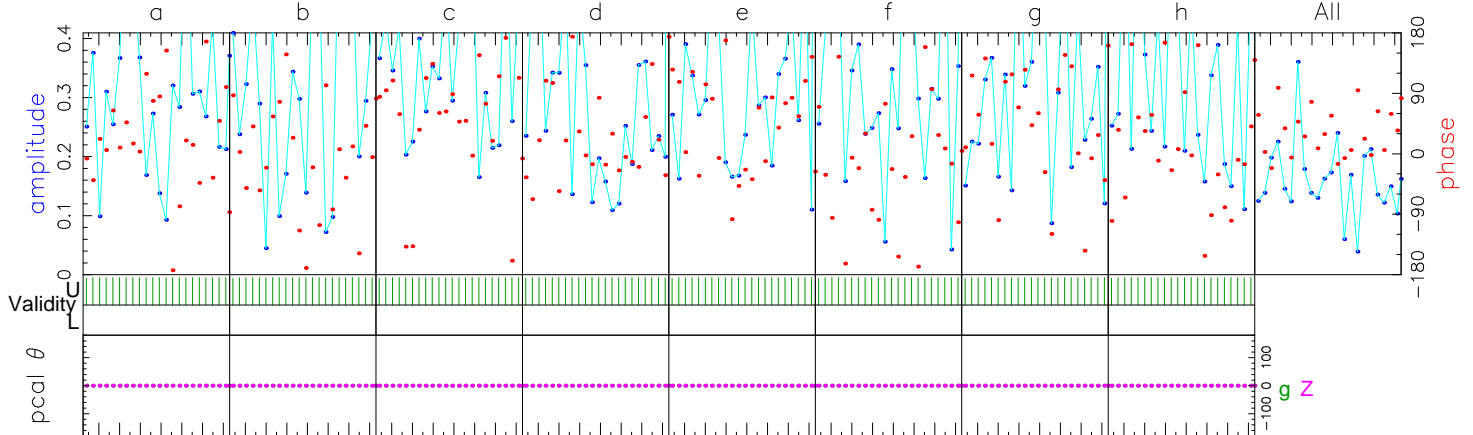


delay rate (ns/s)



Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060014.31  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010626  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 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	794/0	794/0	794/0	794/0	794/0	794/0	794/0	794/0		257.4
g	0	0	0	0	0	0	0	0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.25569064055E+03								-6.60956E-03	+/- 1.4E-04
Sband delay (usec)	-3.25569824474E+03								1.41125E-03	+/- 1.1E-03
Phase delay (usec)	-3.25569965505E+03								9.38720E-07	+/- 4.9E-07
Delay rate (us/s)	-5.52166179850E-01								-3.02682E-08	+/- 2.1E-09
Total phase (deg)			-103.1						29.1	+/- 15.2
	RMS	Theor.	Amplitude	0.137 +/- 0.018						
ph/seg (deg)	34.2	36.5	Search (2048X32)	0.131						
amp/seg (%)	50.5	63.8	Interp.	0.000						
ph/frq (deg)	41.0	21.6	Inc. seg. avg.	0.134						
amp/frq (%)	29.4	37.6	Inc. frq. avg.	0.154						
g: az 3.0 el 28.1 pa -1.1			Z: az 71.0 el 38.2 pa -38.7							
Control file: cf_1234_gmva			Input file: /Exps/c211a/v2/1234/No0182/gZ..1W5T8S							
			Output file: /Exps/c211a/v2/1234/No0182/gZ.W.49.1W5T8S							

pcd mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 Pcal rate: 0.000E+00, 0.000E+00 (us/s)  
 Bits/sample: 2x2 SampCntNorm: enabled  
 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  
 simultaneous interpolator

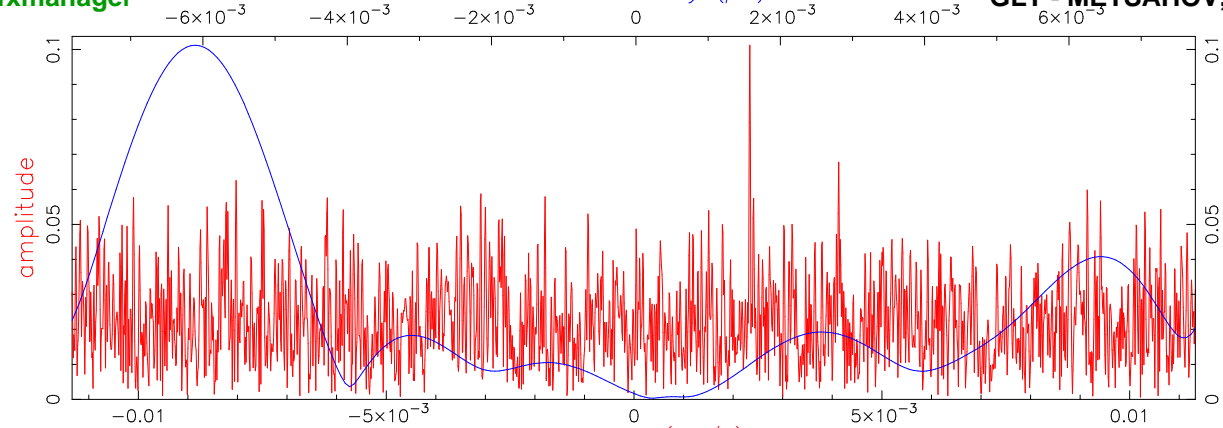
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1W5T8S, No0182, gZ

GLT - METSAHOV, fgroup W, pol RL

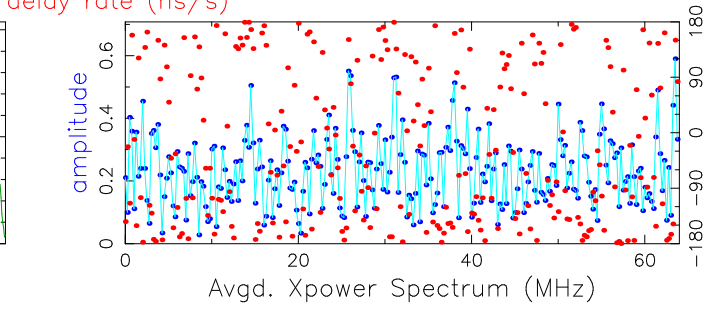
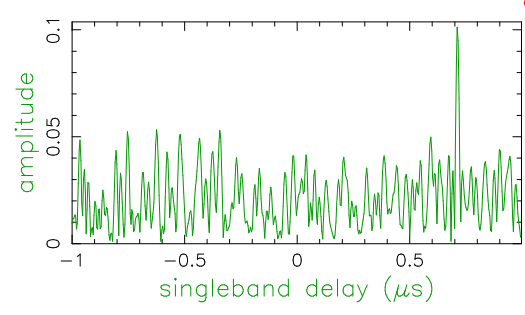
multiband delay ( $\mu$ s)



Fringe quality 0

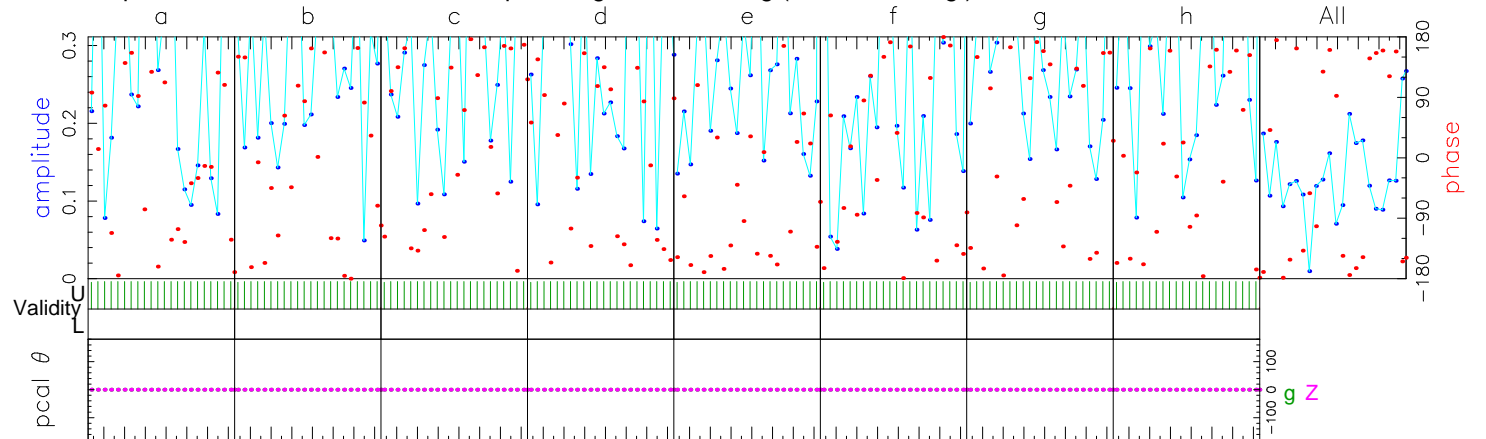
SNR 5.6  
 Int time 405.637  
 Amp 0.104  
 Phase 179.7  
 PFD 9.9e-01  
 Delays (us)  
 SBD 0.711892  
 MBD -0.006075  
 Fringe rate (Hz) 0.201421  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512

Exp. c211a  
 Exper # 16383  
 Yr:day 2021:114  
 Start 060014.31  
 Stop 060700.84  
 FRT 060331.00  
 Corr/FF/build  
 2021:286:170930  
 2021:287:010630  
 2021:252:122852  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 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
	-178.9	-179.9	179.0	157.3	-145.7	-173.4	177.5	163.0	Phase	179.7
	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	Ampl.	0.1
	24.8	369.0	298.5	180.3	312.9	311.7	309.4	429.8	Sbd box	439.2
U/L	794/0	794/0	794/0	794/0	794/0	794/0	794/0	794/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.25498698081E+03		Apriori delay (usec)		-3.25569965599E+03		Resid mbdelay (usec)		-6.07482E-03	+/- 1.9E-04
Sband delay (usec)	-3.25498776424E+03		Apriori clock (usec)		1.1433353E+00		Resid sbdelay (usec)		7.11892E-01	+/- 1.5E-03
Phase delay (usec)	-3.25569965020E+03		Apriori clockrate (us/s)		4.4000001E-08		Resid phdelay (usec)		5.79564E-06	+/- 6.6E-07
Delay rate (us/s)	-5.52163811284E-01		Apriori rate (us/s)		-5.52166149582E-01		Resid rate (us/s)		2.33830E-06	+/- 2.8E-09
Total phase (deg)			Apriori accel (us/s/s)		2.51868267555E-05		Resid phase (deg)		179.7	+/- 20.4

ph/seg (deg) 54.1 48.9 Search (2048X32) 0.098 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 58.5 85.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 18.4 28.9 Inc. seg. avg. 0.098 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 29.3 50.4 Inc. frq. avg. 0.095 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 3.0 el 28.1 pa -1.1 Z: az 71.0 el 38.2 pa -38.7 u,v (fr/asec) 4263.238 2417.058 ion window (TEC) 0.00 0.00 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/c211a/v2/1234/No0182/gz..1W5T8S Output file: /Exps/c211a/v2/1234/No0182/gz.W.69.1W5T8S