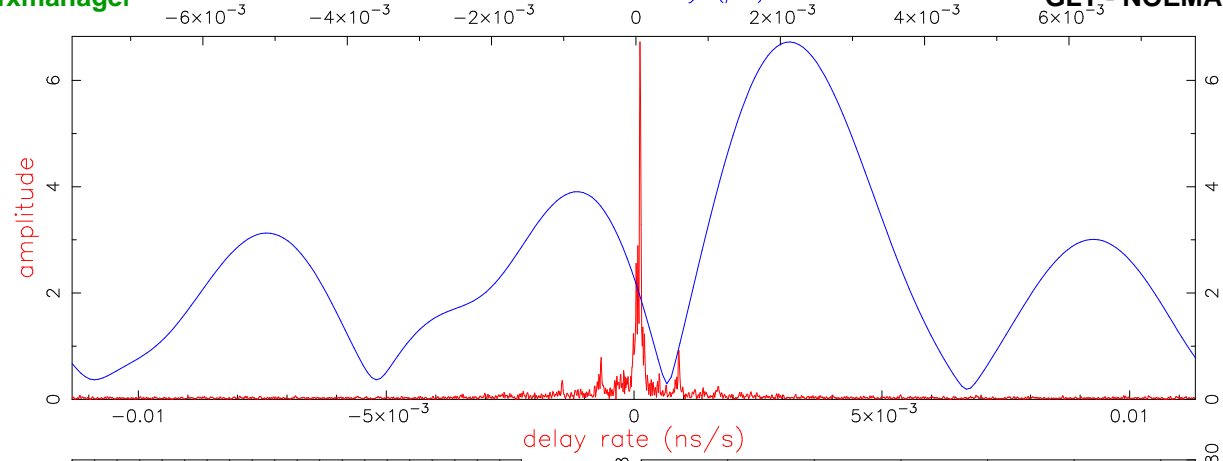
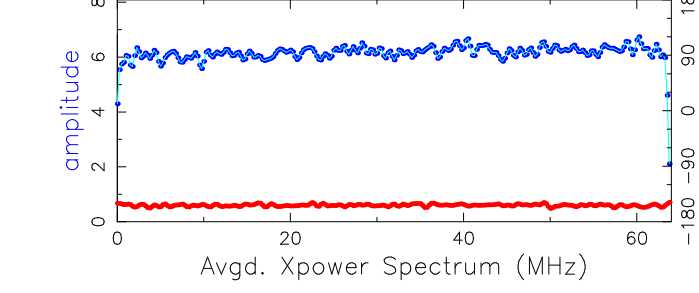
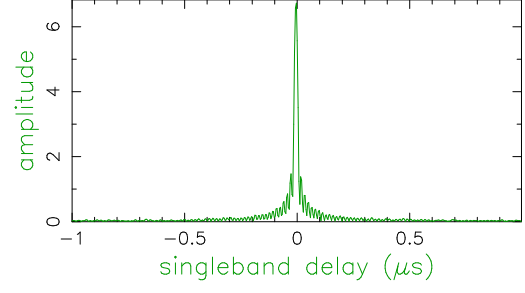


multiband delay ( $\mu$ s)



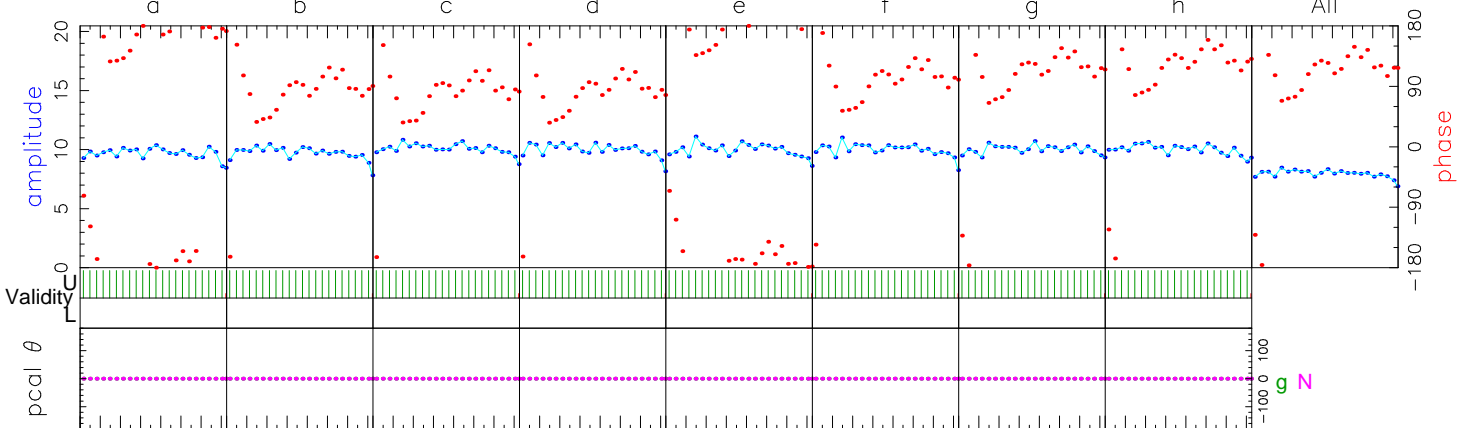
Fringe quality 4

SNR 382.5  
 Int time 419.821  
 Amp 6.828  
 Phase 119.5  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.005434  
 MBD 0.002123  
 Fringe rate (Hz)  
 0.010067  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. mg006b  
 Exper # 16383  
 Yr:day 2021:115  
 Start 174500.00  
 Stop 175159.84  
 FRT 174830.00  
 Corr/FF/build  
 2022:005:201456  
 2022:006:102334  
 2021:252:122852  
 RA & Dec (J2000)  
 08h54m48.874928s  
 +20°06'30.640850"

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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd) -1.14856568775E+04 Apriori delay (usec) -1.14856590005E+04 Resid mbdelay (usec) 2.12295E-03 +/- 2.8E-06  
 Sband delay (usec) -1.14856644345E+04 Apriori clock (usec) 1.3783291E+01 Resid sbdelay (usec) -5.43400E-03 +/- 2.3E-05  
 Phase delay (usec) -1.14856589966E+04 Apriori clockrate (us/s) 1.9000001E-07 Resid phdelay (usec) 3.85358E-06 +/- 9.7E-09  
 Delay rate (us/s) 2.09921140332E-01 Apriori rate (us/s) 2.09921023470E-01 Resid rate (us/s) 1.16862E-07 +/- 4.0E-11  
 Total phase (deg) 10.4 Apriori accel (us/s/s) 7.16003999816E-05 Resid phase (deg) 119.5 +/- 0.3

ph/seg (deg) 35.0 0.7 RMS Theor. Amplitude 6.828 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 17.5 1.3 Search (2048X32) 6.370 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 43.5 0.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 23.0 0.7 Inc. seg. avg. 7.992 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 Inc. frq. avg. 8.391 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

g: az 92.2 el 21.1 pa -14.3 N: az 162.0 el 64.5 pa -12.7 u,v (fr/asec) -1168.751 4308.817 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/mg006b/v1/1234/No0020/gN..20HLTV Output file: /Exps/mg006b/v1/1234/No0020/gN.W.12.20HLTV

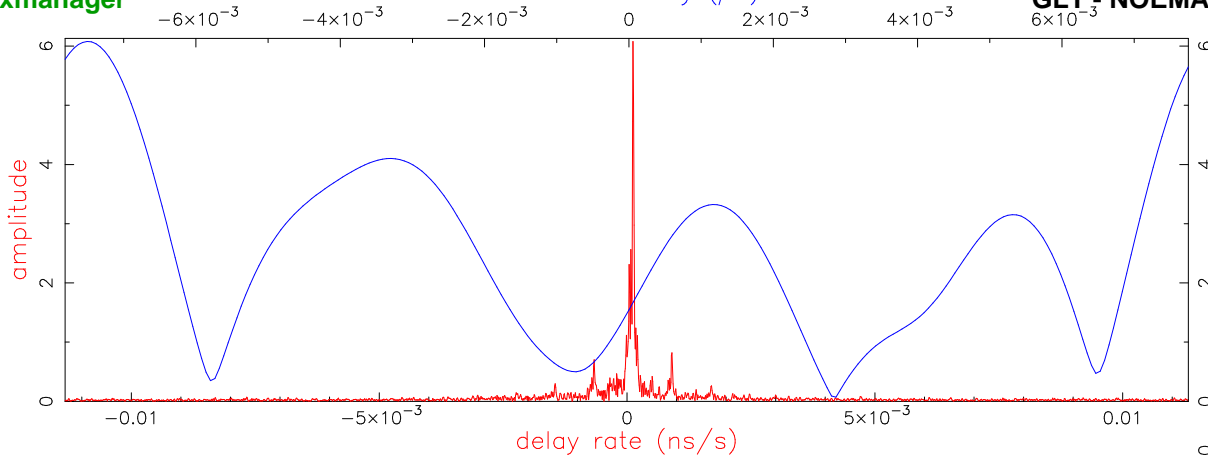
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

OJ287.20HLTV, No0020, gN

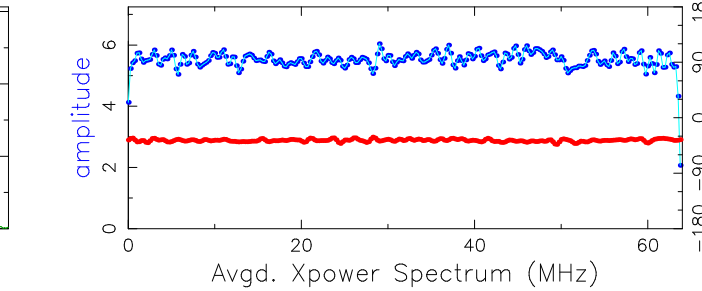
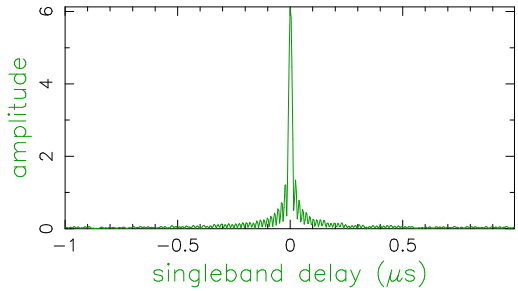
GLT - NOEMA, fgroup W, pol RR

multiband delay ( $\mu$ s)



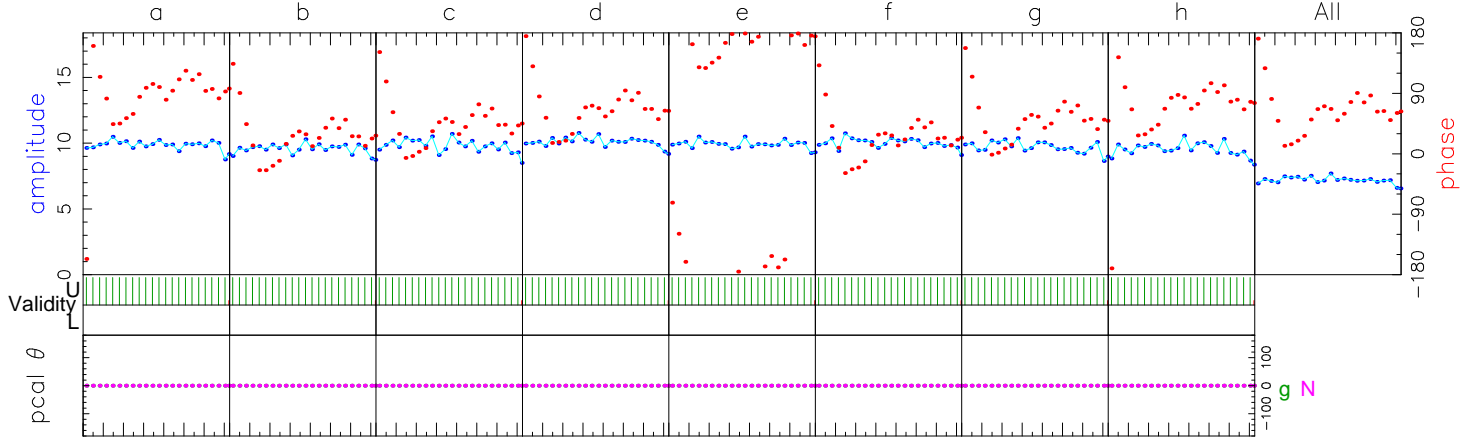
Fringe quality 4

SNR 343.5  
 Int time 419.820  
 Amp 6.130  
 Phase 62.5  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.001129  
 MBD -0.007494  
 Fringe rate (Hz)  
 0.010096  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. mg006b  
 Exper # 16383  
 Yr:day 2021:115  
 Start 174500.00  
 Stop 175159.84  
 FRT 174830.00  
 Corr/FF/build  
 2022:005:201456  
 2022:006:102338  
 2021:252:122852  
 RA & Dec (J2000)  
 08h54m48.874928s  
 +20°06'30.640850"

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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.14856508698E+04									
Sband delay (usec)	-1.14856578710E+04									
Phase delay (usec)	-1.14856589985E+04									
Delay rate (us/s)	2.09921140680E-01									
Total phase (deg)			-46.6							
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 $\theta$										
g N										
Chan ids										
Tracks										
Chan ids										
Tracks										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

ph/seg (deg) 34.9 0.8  
 amp/seg (%) 18.0 1.4  
 ph/frq (deg) 54.8 0.5  
 amp/frq (%) 35.4 0.8  
 g: az 92.2 el 21.1 pa -14.3  
 N: az 162.0 el 64.5 pa -12.7  
 u,v (fr/asec) -1168.751 4308.817  
 Control file: cf\_1234\_gmva  
 Input file: /Exps/mg006b/v1/1234/No0020/gN..20HLTV  
 Output file: /Exps/mg006b/v1/1234/No0020/gN.W.26.20HLTV

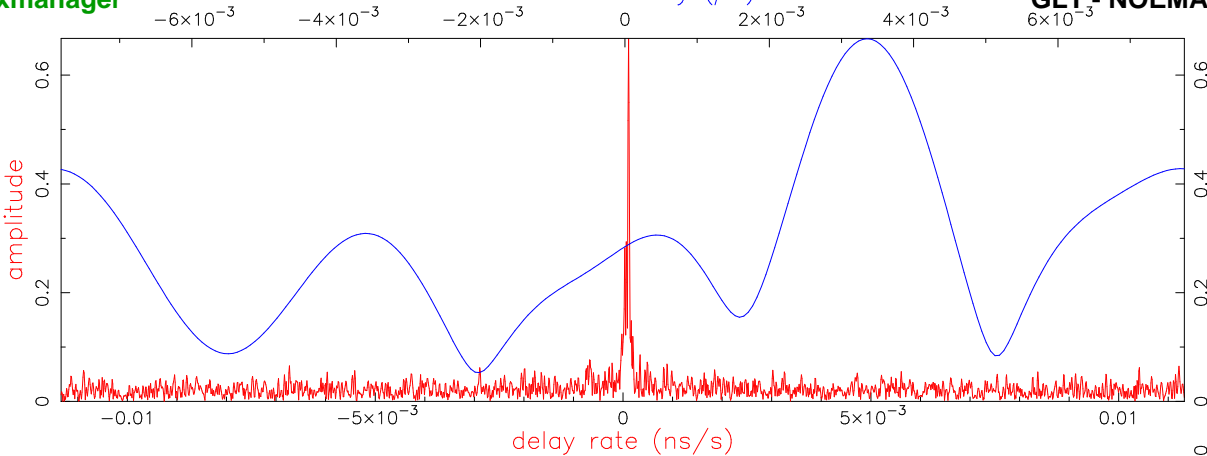
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

OJ287.20HLTV, No0020, gN

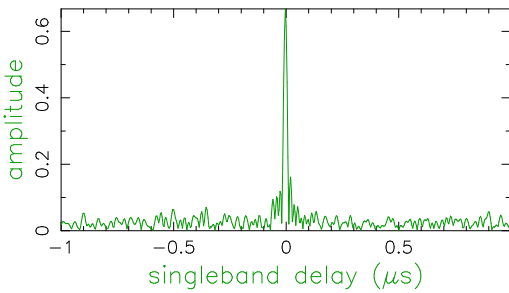
GLT - NOEMA, fgroup W, pol LR

multiband delay ( $\mu$ s)

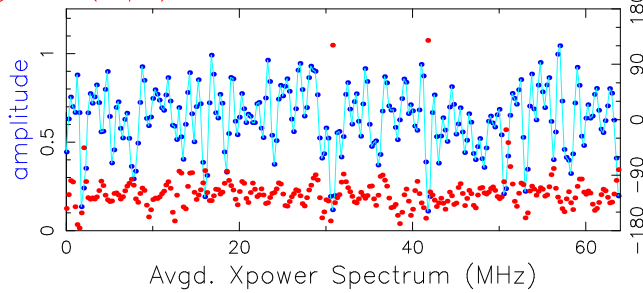


Fringe quality 5

SNR 37.4  
 Int time 419.821  
 Amp 0.668  
 Phase 159.5  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.003516  
 MBD 0.003356  
 Fringe rate (Hz) 0.010013  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512

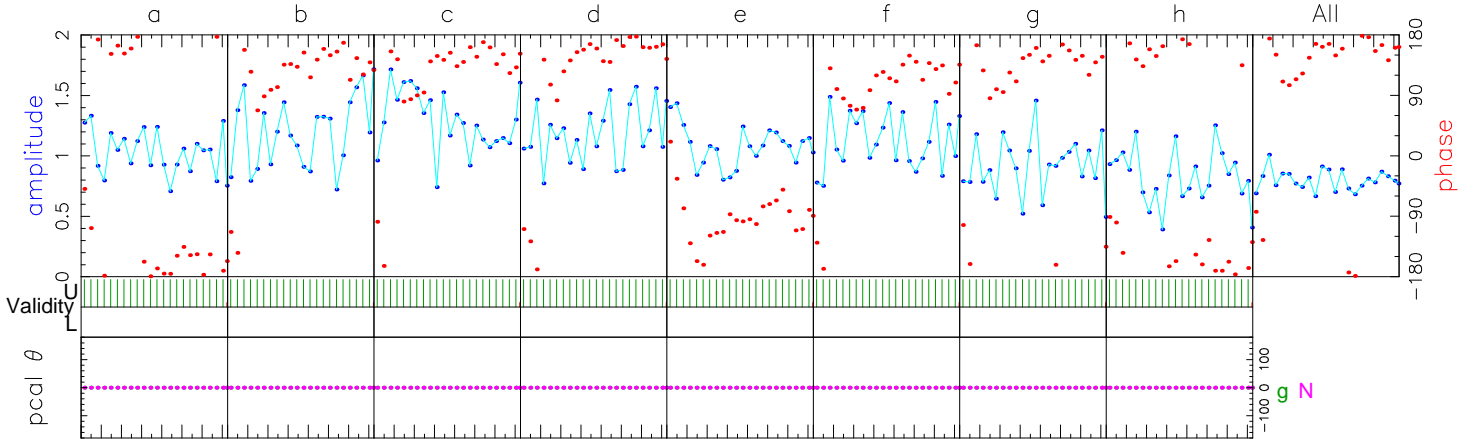


delay rate (ns/s)



Exp. mg006b  
 Exper # 16383  
 Yr:day 2021:115  
 Start 174500.00  
 Stop 175159.84  
 FRT 174830.00  
 Corr/FF/build  
 2022:005:201456  
 2022:006:102341  
 2021:252:122852  
 RA & Dec (J2000)  
 08h54m48.874928s  
 +20°06'30.640850"

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



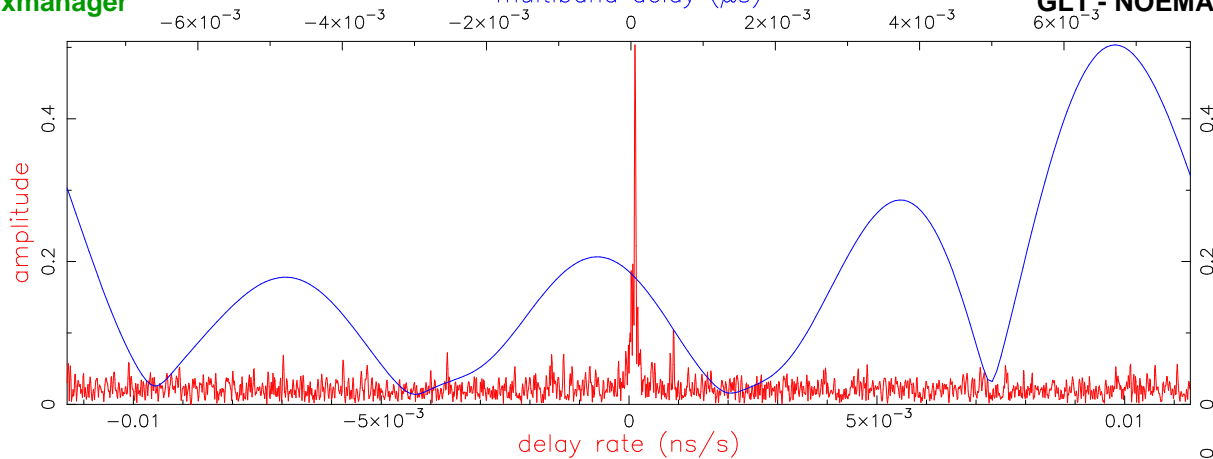
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-166.7	137.2	137.4	159.4	-89.8	115.3	144.7	-170.2	Phase	159.5
	0.9	1.0	1.1	1.0	0.9	1.0	0.8	0.7	Ampl.	0.9
	256.1	256.0	256.0	256.2	256.3	256.1	256.2	256.3	Sbd box	256.1
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -1.14856556442E+04 Apriori delay (usec) -1.14856590005E+04 Resid mbdelay (usec) 3.35629E-03 +/- 2.9E-05  
 Sband delay (usec) -1.14856625160E+04 Apriori clock (usec) 1.3783291E+01 Resid sbdelay (usec) -3.51550E-03 +/- 2.3E-04  
 Phase delay (usec) -1.14856589954E+04 Apriori clockrate (us/s) 1.9000001E-07 Resid phdelay (usec) 5.14297E-06 +/- 9.9E-08  
 Delay rate (us/s) 2.09921139715E-01 Apriori rate (us/s) 2.09921023470E-01 Resid rate (us/s) 1.16245E-07 +/- 4.1E-10  
 Total phase (deg) 50.4 Apriori accel (us/s/s) 7.16003999816E-05 Resid phase (deg) 159.5 +/- 3.1

RMS Theor. Amplitude 0.668 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 37.5 7.3 Search (2048X32) 0.629 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 23.7 12.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 54.0 4.3 Inc. seg. avg. 0.796 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 38.6 7.6 Inc. frq. avg. 0.896 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

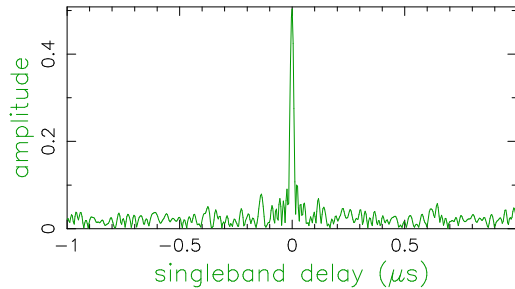
g: az 92.2 el 21.1 pa -14.3 N: az 162.0 el 64.5 pa -12.7 u,v (fr/asec) -1168.751 4308.817 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/mg006b/v1/1234/No0020/gN..20HLTV Output file: /Exps/mg006b/v1/1234/No0020/gN.W.40.20HLTV

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

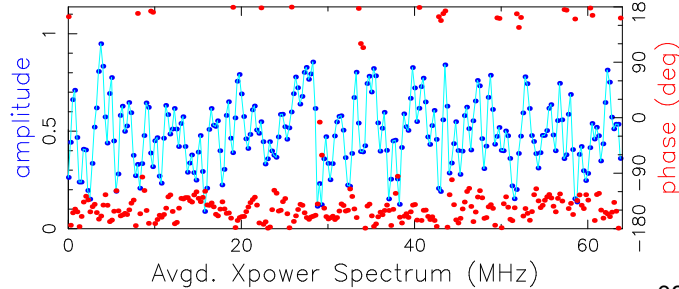


Fringe quality 5

SNR 28.5  
Int time 419.820  
Amp 0.508  
Phase 115.5  
PFD 0.0e+00  
Delays (us)  
SBD -0.001227  
MBD 0.006700  
Fringe rate (Hz)  
0.010159  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

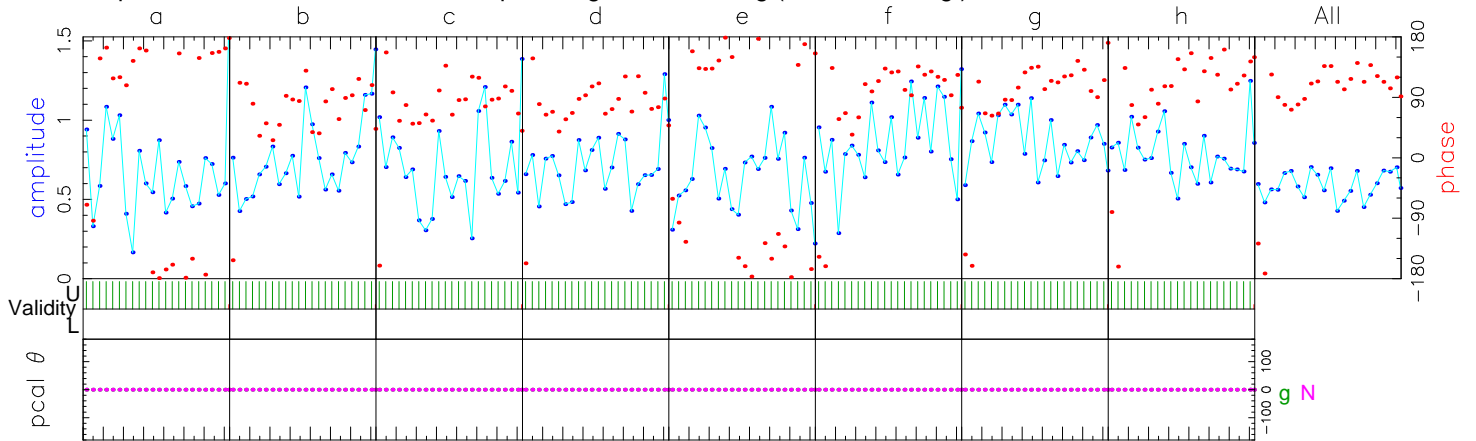


delay rate (ns/s)



Exp. mg006b  
Exper # 16383  
Yr:day 2021:115  
Start 174500.00  
Stop 175159.84  
FRT 174830.00  
Corr/FF/build  
2022:005:201456  
2022:006:102344  
2021:252:122852  
RA & Dec (J2000)  
08h54m48.874928s  
+20°06'30.640850"

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)	-1.14856679257E+04				-1.14856590005E+04				6.69982E-03	+/- 3.8E-05
Sband delay (usec)	-1.14856602270E+04				1.3783291E+01				-1.22650E-03	+/- 3.0E-04
Phase delay (usec)	-1.14856589968E+04				1.9000001E-07				3.72437E-06	+/- 1.3E-07
Delay rate (us/s)	2.09921141401E-01				2.09921023470E-01				1.17931E-07	+/- 5.4E-10
Total phase (deg)			6.4		7.16003999816E-05				115.5	+/- 4.0
pcal mode:	MANUAL, MANUAL				MANUAL, MANUAL				PC period (AP's) 5, 5	
pcal rate:	0.000E+00, 0.000E+00 (us/s)				0.000E+00, 0.000E+00 (us/s)				sb window (us) -1.000 1.000	
Bits/sample:	2x2				SampCntNorm: enabled				mb window (us) -0.008 0.008	
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	
nlags:	256				t_cohere infinite					

ph/seg (deg) 35.2 9.6 Amplitude 0.508 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 23.6 16.8 Interp. 0.484 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 40.8 5.7 Inc. seg. avg. 0.585 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
amp/frq (%) 22.7 9.9 Inc. frq. avg. 0.592 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 92.2 el 21.1 pa -14.3 N: az 162.0 el 64.5 pa -12.7 u,v (fr/asec) -1168.751 4308.817 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/mg006b/v1/1234/No0020/gN..20HLTV Output file: /Exps/mg006b/v1/1234/No0020/gN.W.51.20HLTV