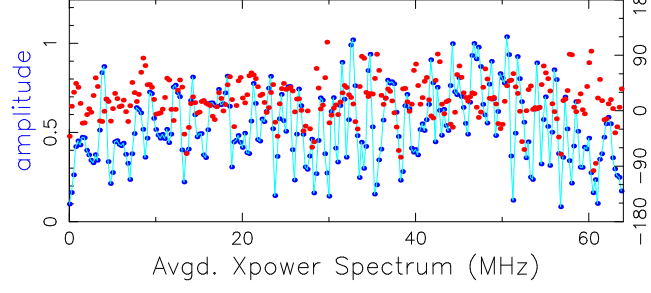
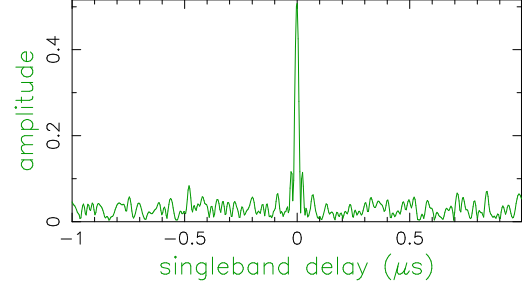


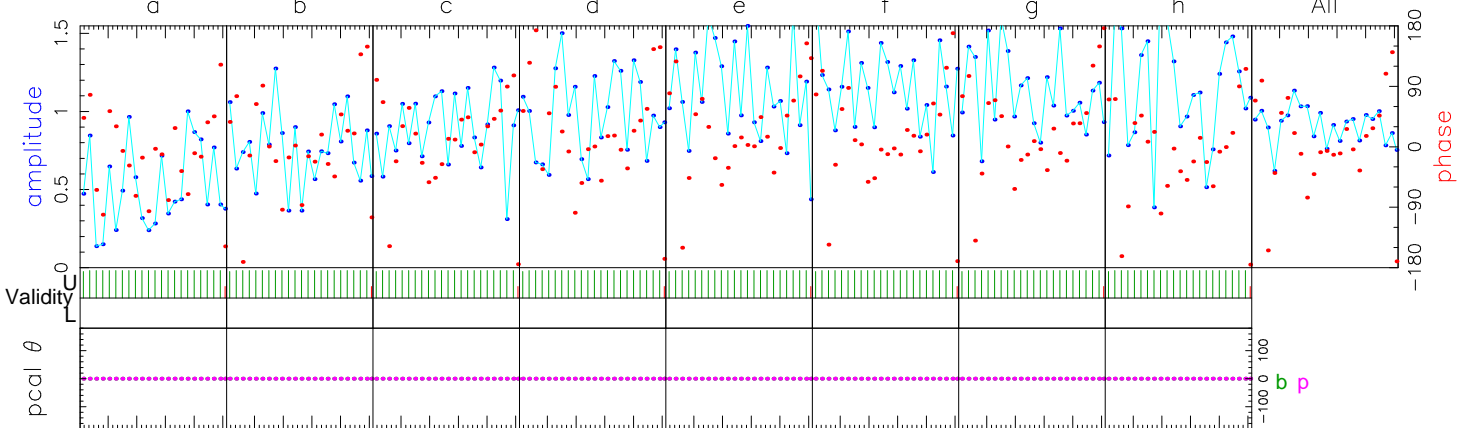
Fringe quality 7

SNR 24.4  
Int time 297.955  
Amp 0.516  
Phase 17.3  
PFD 0.0e+00  
Delays (us)  
SBD -0.001664  
MBD -0.001599  
Fringe rate (Hz)  
-0.005783  
Ion TEC 0.000  
Ref freq (MHz)  
87940.0000  
AP (sec) 0.512

Exp. c202c  
Exper # 16383  
Yr:day 2020:286  
Start 115501.54  
Stop 120000.03  
FRT 115730.00  
Corr/FF/build  
2021:039:063420  
2021:039:064331  
2020:247:085004  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-5.4	8.2	22.4	22.6	25.6	25.8	25.2	-1.4		17.3
	0.3	0.4	0.6	0.5	0.6	0.6	0.6	0.5		0.5
	255.9	256.1	256.8	256.5	256.7	256.9	256.5	256.3		256.6
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:p	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		
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
									Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	1.96729495753E+03		Apriori delay (usec)		1.96729655699E+03		Resid mbdelay (usec)		-1.59946E-03	+/- 4.5E-05
Sband delay (usec)	1.96729489324E+03		Apriori clock (usec)		-1.8595400E+00		Resid sbdelay (usec)		-1.66375E-03	+/- 3.5E-04
Phase delay (usec)	1.96729655754E+03		Apriori clockrate (us/s)		-3.9999997E-07		Resid phdelay (usec)		5.45304E-07	+/- 1.5E-07
Delay rate (us/s)	2.49630296521E-01		Apriori rate (us/s)		2.49630362281E-01		Resid rate (us/s)		-6.57603E-08	+/- 8.6E-10
Total phase (deg)	97.1		Apriori accel (us/s/s)		3.08417655500E-06		Resid phase (deg)		17.3	+/- 4.7

ph/seg (deg) 67.4 11.3 Amplitude 0.516 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 80.1 19.7 Search (2048X32) 0.506 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 14.2 6.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 19.8 11.6 Inc. seg. avg. 0.897 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 b: az 264.0 el 67.9 pa 62.4 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) -1948.973 1459.782 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/bp..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/bp.W.12.1JFL7R simultaneous interpolator

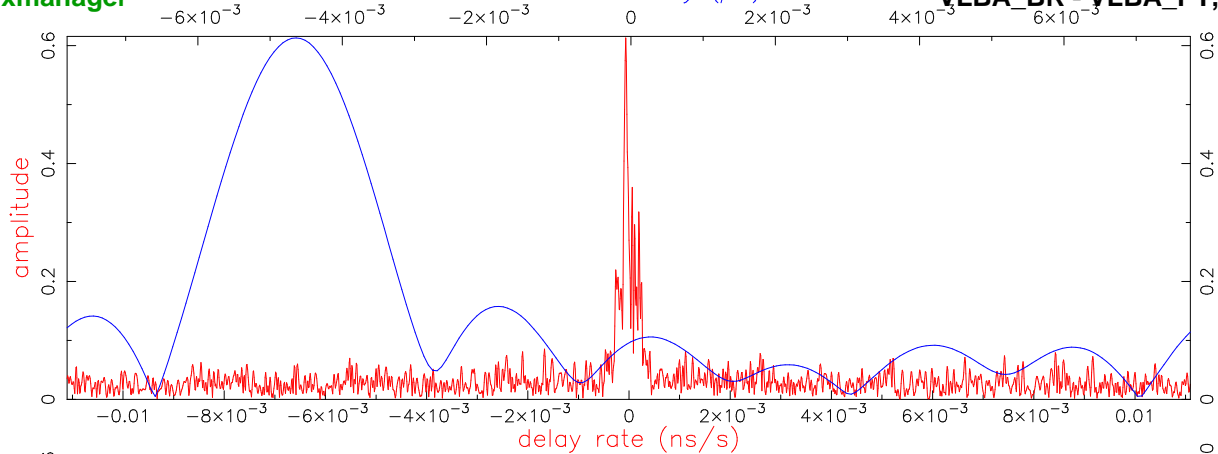
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1JFL7R, No0089, bp

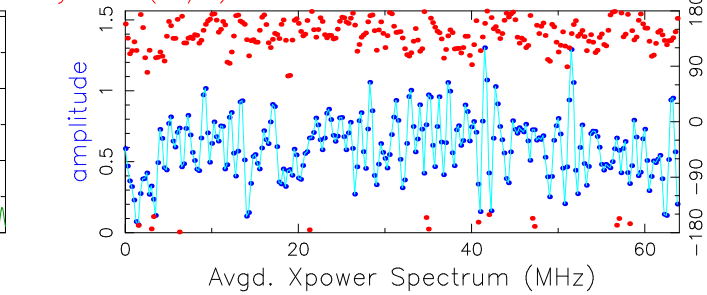
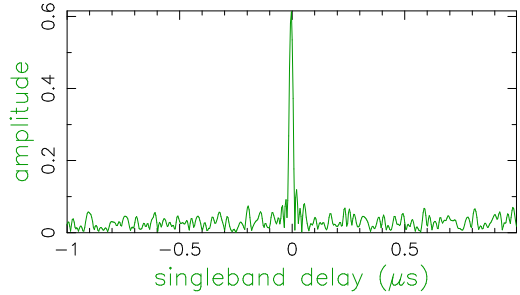
VLBA\_BR - VLBA\_PT, fgroup W, pol RR

multiband delay ( $\mu$ s)



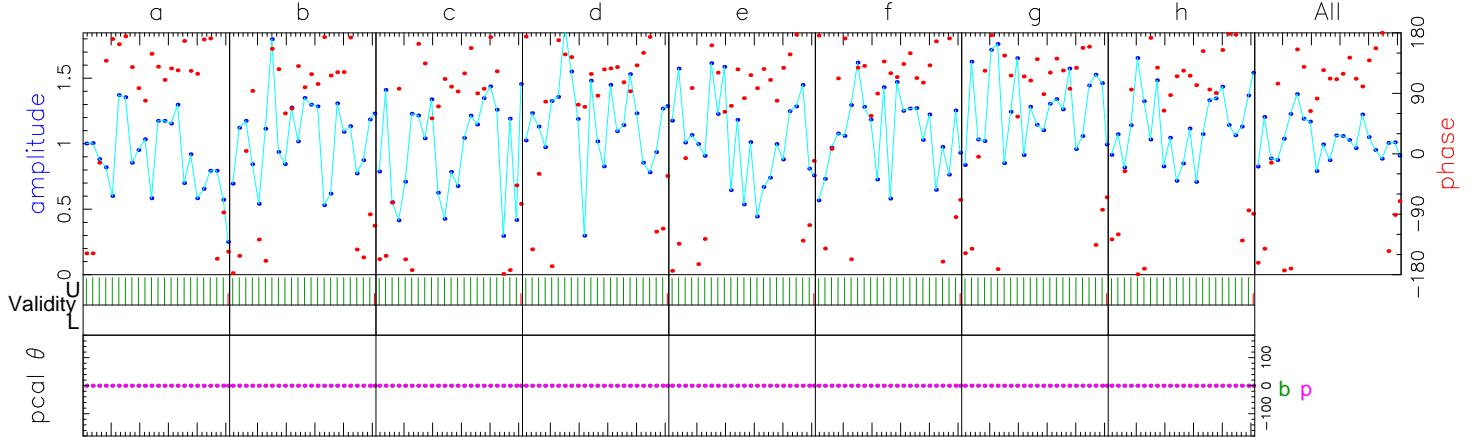
Fringe quality 7

SNR 29.1  
 Int time 297.955  
 Amp 0.616  
 Phase 144.1  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.004748  
 MBD -0.004659  
 Fringe rate (Hz)  
 -0.005563  
 Ion TEC 0.000  
 Ref freq (MHz)  
 87940.0000  
 AP (sec) 0.512



Exp. c202c  
 Exper # 16383  
 Yr:day 2020:286  
 Start 115501.54  
 Stop 120000.03  
 FRT 115730.00  
 Corr/FF/build  
 2021:039:063420  
 2021:039:064334  
 2020:247:085004  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
147.6	141.6	144.1	140.0	144.1	139.3	144.8	152.3	152.3	Phase	144.1
0.6	0.6	0.5	0.7	0.5	0.7	0.7	0.6	0.6	Ampl.	0.6
256.1	256.0	255.7	255.8	255.6	255.6	255.8	255.6	255.6	Sbd box	255.8
U/L 583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	APs used	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.96729189785E+03		Apriori delay (usec)	1.96729655699E+03	Resid mbdelay (usec)	-4.65914E-03	+/-	3.7E-05		
Sband delay (usec)	1.96729180924E+03		Apriori clock (usec)	-1.8595400E+00	Resid sbdelay (usec)	-4.74775E-03	+/-	3.0E-04		
Phase delay (usec)	1.96729656154E+03		Apriori clockrate (us/s)	-3.9999997E-07	Resid phdelay (usec)	4.55148E-06	+/-	1.2E-07		
Delay rate (us/s)	2.49630299017E-01		Apriori rate (us/s)	2.49630362281E-01	Resid rate (us/s)	-6.32645E-08	+/-	7.2E-10		
Total phase (deg)		223.9	Apriori accel (us/s/s)	3.08417655500E-06	Resid phase (deg)	144.1	+/-	3.9		

ph/seg (deg) 62.1 9.5 Search (2048X32) 0.596 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 71.4 16.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 4.6 5.6 Inc. seg. avg. 1.016 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 11.6 9.7 Inc. frq. avg. 0.612 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 264.0 el 67.9 pa 62.4 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) -1948.973 1459.782 simultaneous interpolator  
 Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/bp..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/bp.W.31.1JFL7R

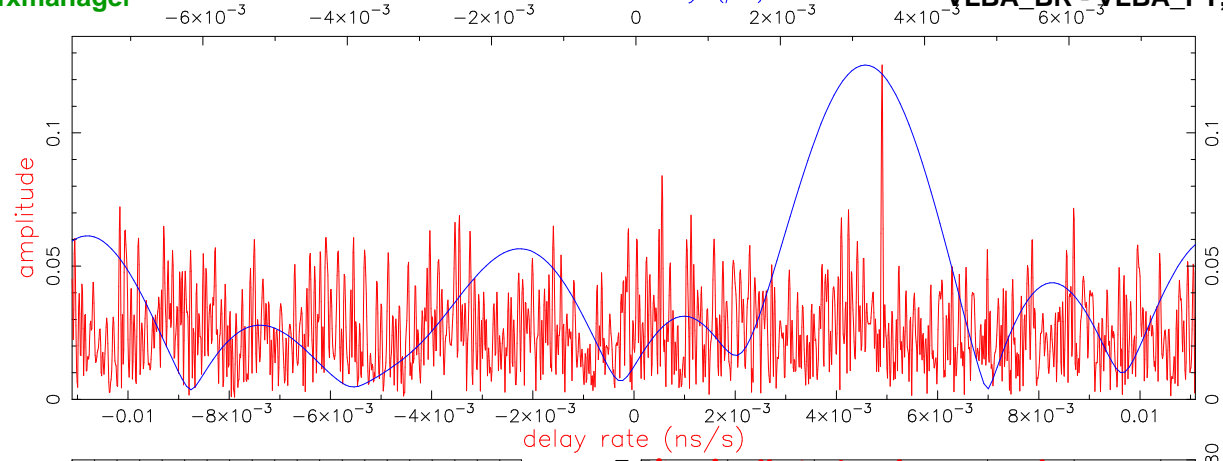
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

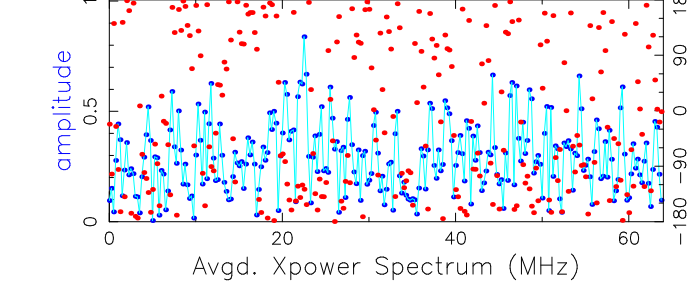
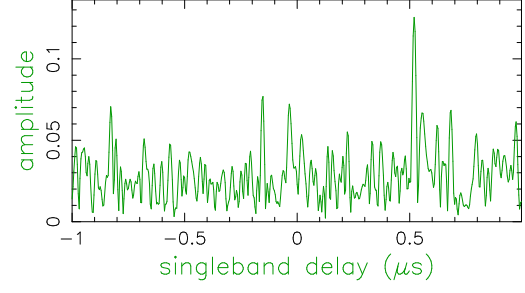
3C84.1JFL7R, No0089, bp

VLBA\_BR - VLBA\_PT, fgroup W, pol LR

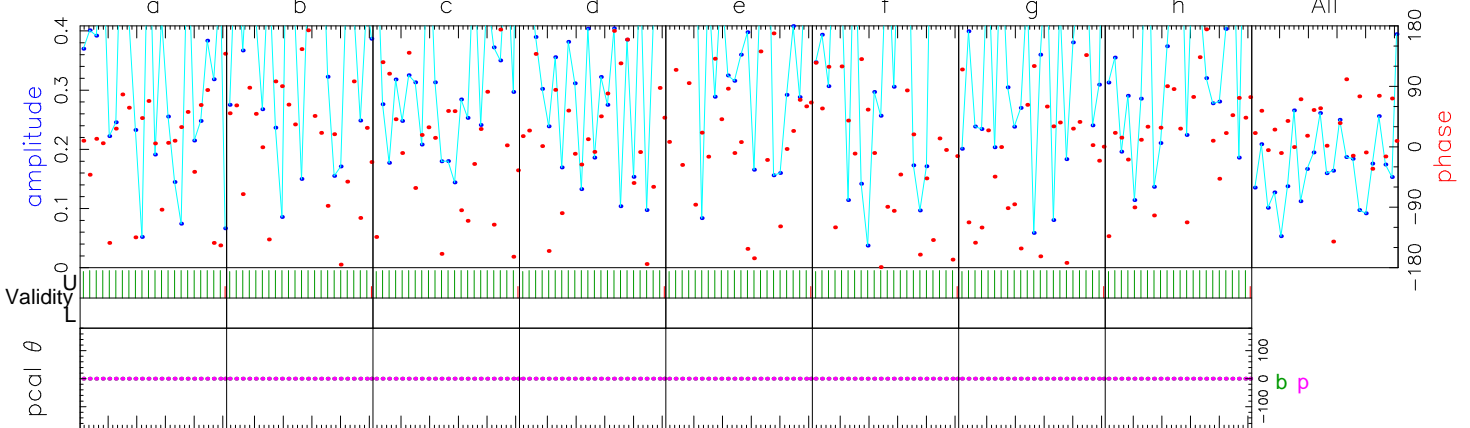
multiband delay ( $\mu$ s)



Fringe quality 0  
 SNR 5.9  
 Int time 297.955  
 Amp 0.136  
 Phase 30.2  
 PFD 5.5e-01  
 Delays (us)  
 SBD 0.519807  
 MBD 0.003181  
 Fringe rate (Hz) 0.431720  
 Ion TEC 0.000  
 Ref freq (MHz) 87940.0000  
 AP (sec) 0.512  
 Exp. c202c  
 Exper # 16383  
 Yr:day 2020:286  
 Start 115501.54  
 Stop 120000.03  
 FRT 115730.00  
 Corr/FF/build  
 2021:039:063420  
 2021:039:064337  
 2020:247:085004  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All	
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0			
b	1000	1000	1000	1000	1000	1000	1000	1000			
p	1000	1000	1000	1000	1000	1000	1000	1000			
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
b:p	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			
p	1000	1000	1000	1000	1000	1000	1000	1000			
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)		1.96781536348E+03				1.96729655699E+03			3.18149E-03	+/- 1.8E-04	
Sband delay (usec)		1.96781636399E+03				-1.8595400E+00			5.19807E-01	+/- 1.5E-03	
Phase delay (usec)		1.96729655795E+03				-3.9999997E-07			9.54945E-07	+/- 6.1E-07	
Delay rate (us/s)		2.49635271539E-01				2.49630362281E-01			4.90926E-06	+/- 3.5E-09	
Total phase (deg)			110.1			3.08417655500E-06			30.2	+/- 19.3	
ph/seg (deg)	RMS 51.0	Theor. 46.4	Amplitude Search (2048X32) 0.136 +/- 0.023	0.123	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			sb window (us)	-1.000	1.000
amp/seg (%)	62.6	80.9	Interp. 0.000	0.000	PCal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled			mb window (us)	-0.008	0.008
ph/frq (deg)	28.8	27.3	Inc. seg. avg. 0.139	0.139	Bits/sample: 2x2	Sample rate(MISamp/s): 128			dr window (ns/s)	-0.011	0.011
amp/frq (%)	42.6	47.7	Inc. frq. avg. 0.128	0.128	Data rate(Mb/s): 2048	nlags: 256			ion window (TEC)	0.00	0.00

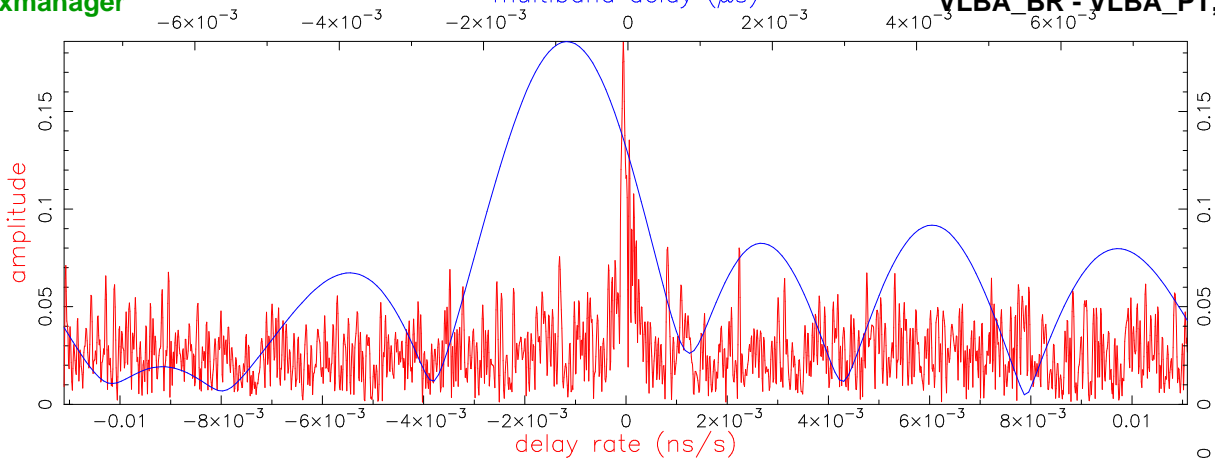
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1JFL7R, No0089, bp

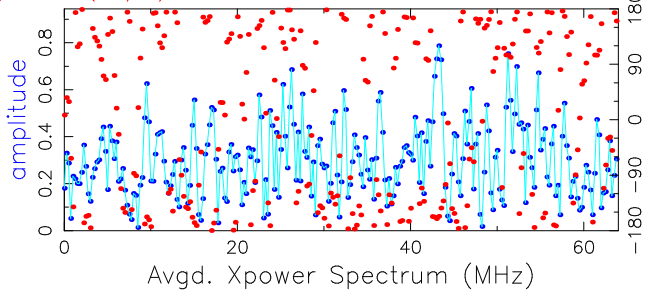
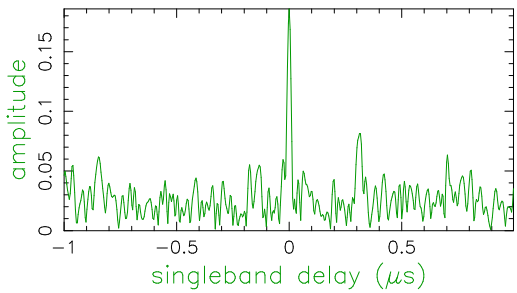
VLBA\_BR - VLBA\_PT, fgroup W, pol RL

multiband delay ( $\mu$ s)



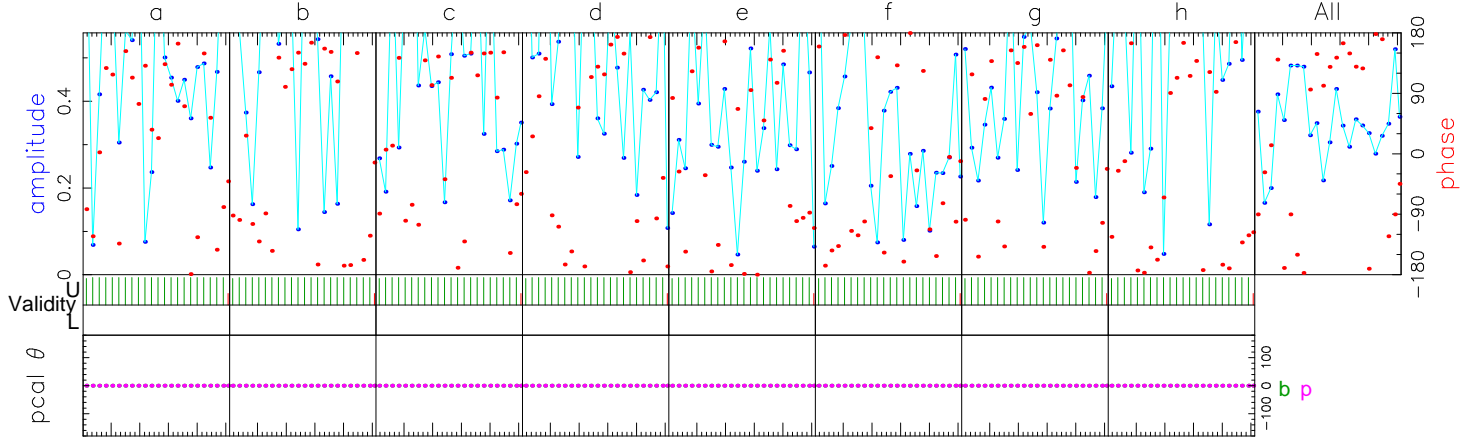
Fringe quality 9

SNR 8.8  
 Int time 297.955  
 Amp 0.186  
 Phase 177.8  
 PFD 6.5e-10  
 Delays (us)  
 SBD -0.000371  
 MBD -0.000858  
 Fringe rate (Hz)  
 -0.004770  
 Ion TEC 0.000  
 Ref freq (MHz)  
 87940.0000  
 AP (sec) 0.512



Exp. c202c  
 Exper # 16383  
 Yr:day 2020:286  
 Start 115501.54  
 Stop 120000.03  
 FRT 115730.00  
 Corr/FF/build  
 2021:039:063420  
 2021:039:064340  
 2020:247:085004  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:p	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		
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	1.96729569889E+03				1.96729655699E+03				Resid mbdelay (usec)	-8.58099E-04 +/- 1.2E-04
Sband delay (usec)	1.96729618599E+03				-1.8595400E+00				Resid sbdelay (usec)	-3.71000E-04 +/- 9.8E-04
Phase delay (usec)	1.96729656261E+03				-3.9999997E-07				Resid phdelay (usec)	5.61727E-06 +/- 4.1E-07
Delay rate (us/s)	2.49630308040E-01				2.49630362281E-01				Resid rate (us/s)	-5.42411E-08 +/- 2.4E-09
Total phase (deg)		257.7			3.08417655500E-06				Resid phase (deg)	177.8 +/- 13.1

ph/seg (deg) 71.2 31.3  
 amp/seg (%) 100.9 54.7  
 ph/frq (deg) 32.0 18.5  
 amp/frq (%) 43.1 32.2

RMS Theor. Amplitude 0.186 +/- 0.021  
 Search (2048X32) 0.184  
 Interp. 0.000  
 Inc. seg. avg. 0.305  
 Inc. frq. avg. 0.193

Pcal 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(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 264.0 el 67.9 pa 62.4 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) -1948.973 1459.782 simultaneous interpolator  
 Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/bp..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/bp.W.70.1JFL7R

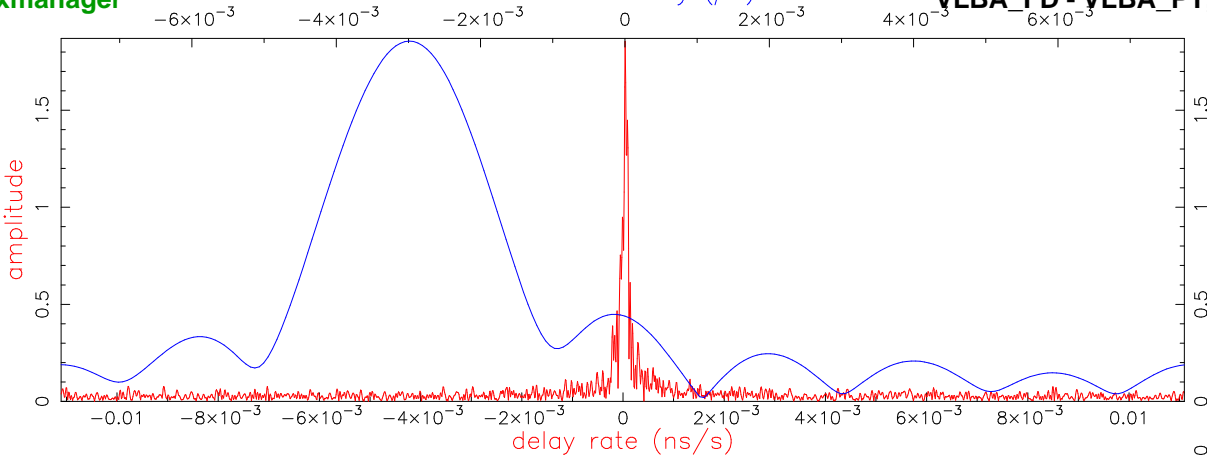
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1JFL7R, No0089, fp

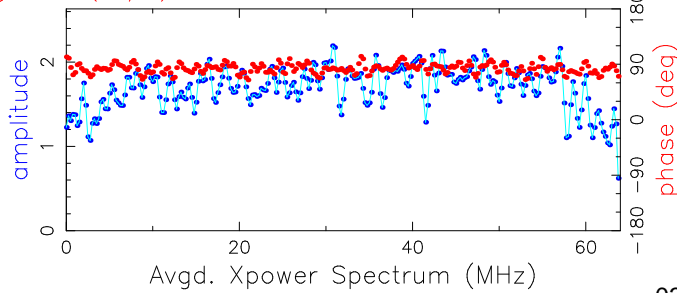
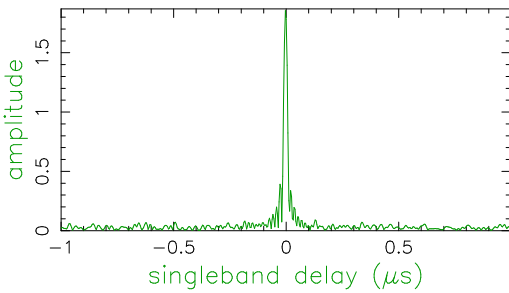
VLBA\_FD - VLBA\_PT, fgroup W, pol RR

multiband delay ( $\mu$ s)



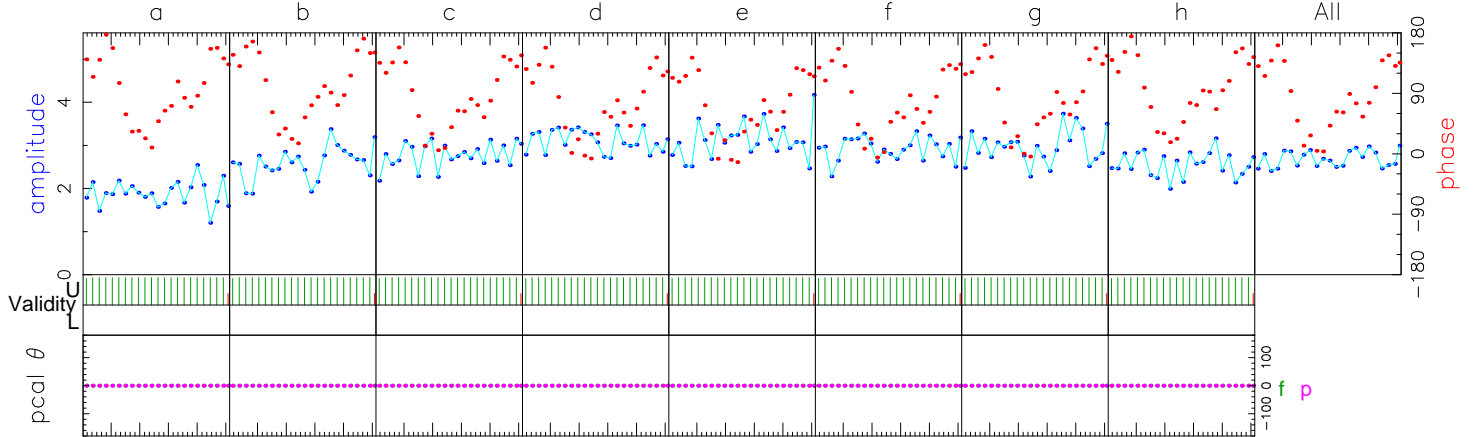
Fringe quality 4

SNR 88.3  
 Int time 297.976  
 Amp 1.870  
 Phase 85.4  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.002778  
 MBD -0.002951  
 Fringe rate (Hz)  
 0.004077  
 Ion TEC 0.000  
 Ref freq (MHz)  
 87940.0000  
 AP (sec) 0.512



Exp. c202c  
 Exper # 16383  
 Yr:day 2020:286  
 Start 115501.54  
 Stop 120000.03  
 FRT 115730.00  
 Corr/FF/build  
 2021:039:063420  
 2021:039:064333  
 2020:247:085004  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

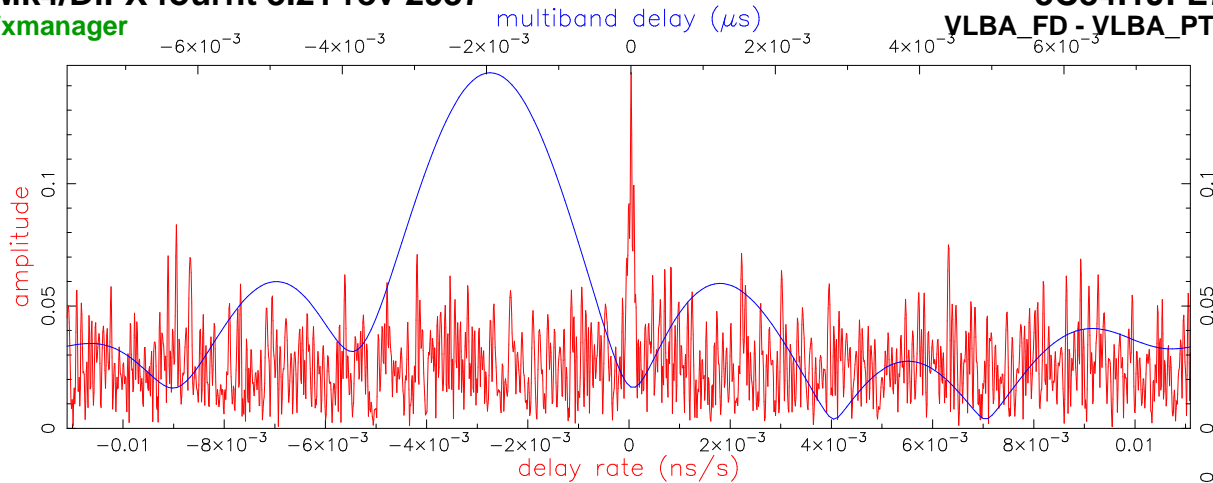
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



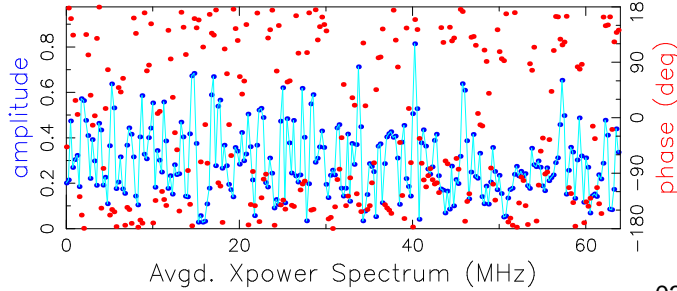
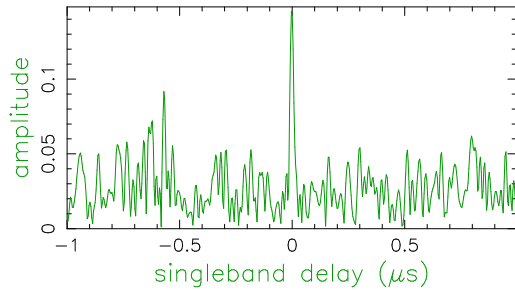
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-1.05274955113E+03								Resid mbdelay (usec)	-2.95082E-03 +/- 1.2E-05
Sband delay (usec)	-1.05274937831E+03								Resid sbdelay (usec)	-2.77800E-03 +/- 9.8E-05
Phase delay (usec)	-1.05274659761E+03								Resid phdelay (usec)	2.69711E-06 +/- 4.1E-08
Delay rate (us/s)	-7.86131911948E-02								Resid rate (us/s)	4.63573E-08 +/- 2.4E-10
Total phase (deg)		74.3							Resid phase (deg)	85.4 +/- 1.3

ph/seg (deg) 48.0 3.1 Amplitude 1.870 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 44.6 5.4 Interp. 1.833 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 11.6 1.8 Inc. seg. avg. 2.680 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 13.1 3.2 Inc. frq. avg. 1.884 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 f: az 299.7 el 51.9 pa 91.2 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) 617.535 -256.702 ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/fp..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/fp.W.26.1JFL7R simultaneous interpolator



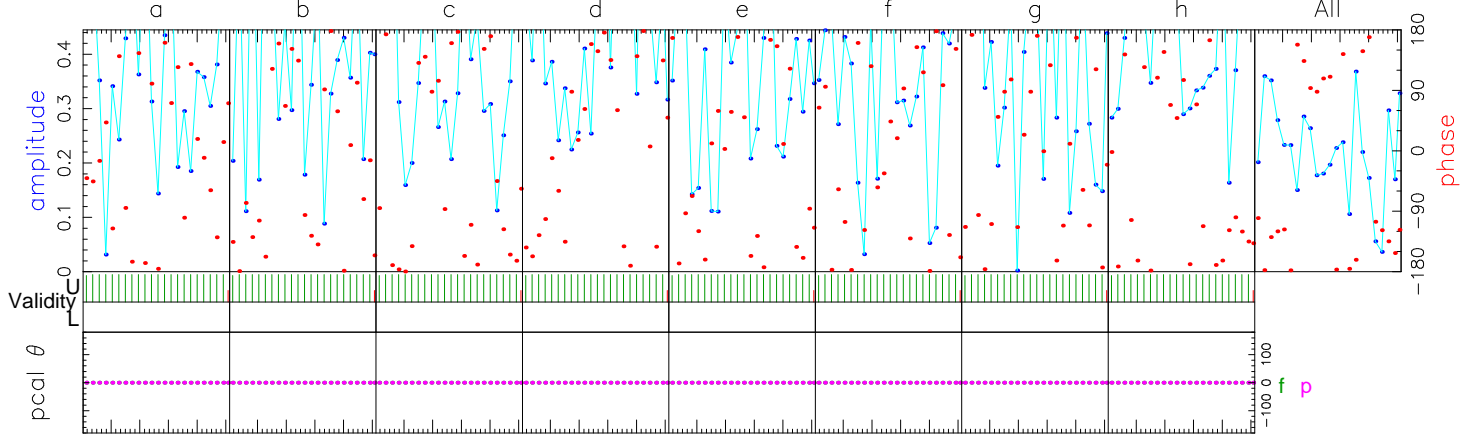


Fringe quality 0  
SNR 7.0  
Int time 297.976  
Amp 0.148  
Phase -176.1  
PFD 7.6e-04  
Delays (us)  
SBD -0.002076  
MBD -0.001931  
Fringe rate (Hz)  
0.003754  
Ion TEC 0.000  
Ref freq (MHz)  
87940.0000  
AP (sec) 0.512



Exp. c202c  
Exper # 16383  
Yr:day 2020:286  
Start 115501.54  
Stop 120000.03  
FRT 115730.00  
Corr/FF/build  
2021:039:063420  
2021:039:064337  
2020:247:085004  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



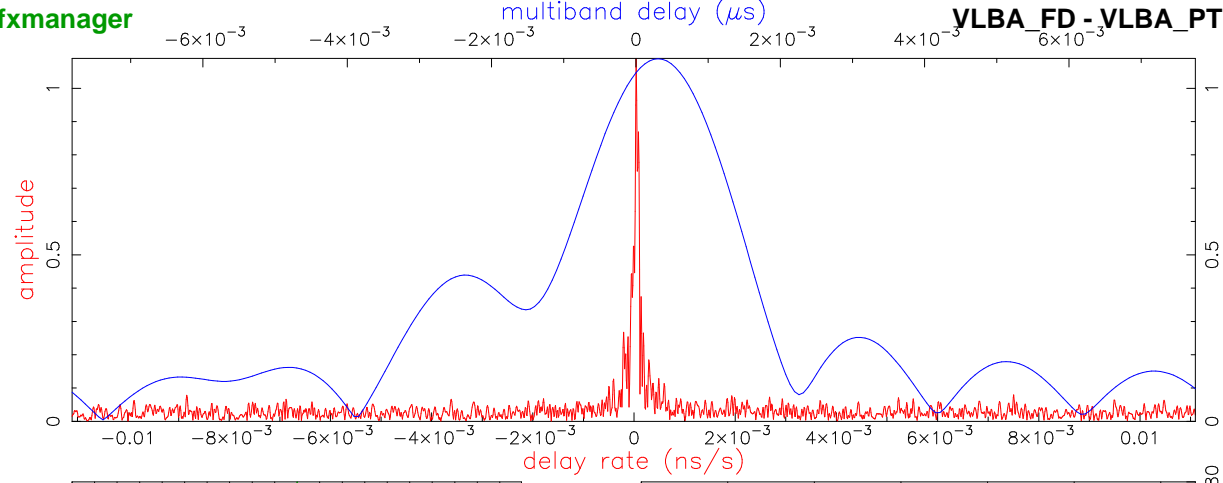
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All	
	-105.7	175.2	-169.1	175.2	-168.1	145.1	-156.7	-175.0	Phase	-176.1	
	0.0	0.2	0.3	0.2	0.1	0.1	0.1	0.2	Ampl.	0.1	
	19.6	256.3	256.4	262.8	111.3	466.1	236.8	95.9	Sbd box	256.5	
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	APs used		
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC		
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
p	1000	1000	1000	1000	1000	1000	1000	1000			
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks		
									Tracks		
Group delay (usec)(sbd)	-1.05274853147E+03		Apriori delay (usec)		-1.05274660031E+03		Resid mbdelay (usec)		-1.93116E-03	+/- 1.6E-04	
Sband delay (usec)	-1.05274867656E+03		Apriori clock (usec)		7.7900000E+00		Resid sbdelay (usec)		-2.07625E-03	+/- 1.2E-03	
Phase delay (usec)	-1.05274660587E+03		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-5.56227E-06	+/- 5.2E-07	
Delay rate (us/s)	-7.86131948615E-02		Apriori rate (us/s)		-7.86132375521E-02		Resid rate (us/s)		4.26906E-08	+/- 3.0E-09	
Total phase (deg)			Apriori accel (us/s/s)		1.59604037545E-06		Resid phase (deg)		-176.1	+/- 16.4	
	RMS	Theor.	Amplitude	0.148 +/- 0.021		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	52.5	39.2	Search (2048X32)	0.145		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000	
amp/seg (%)	75.9	68.5	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	34.4	23.1	Inc. seg. avg.	0.179		Sample rate(MISamp/s): 128		dr window (ns/s)		-0.011 0.011	
amp/frq (%)	48.3	40.4	Inc. frq. avg.	0.141		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

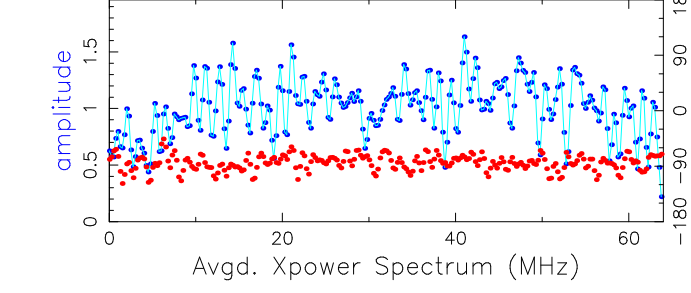
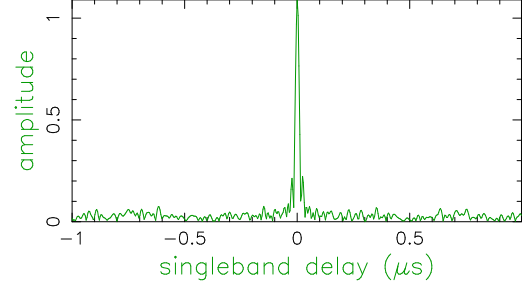
3C84.1JFL7R, No0089, fp

VLBA\_FD - VLBA\_PT, fgroup W, pol LL



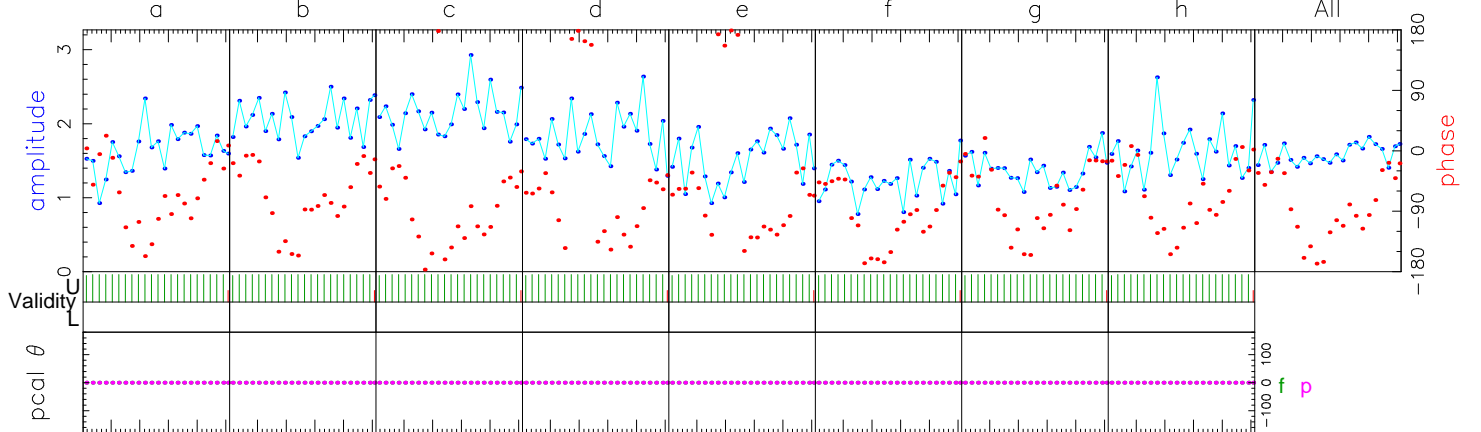
Fringe quality 3

SNR 51.4  
 Int time 297.976  
 Amp 1.090  
 Phase -82.9  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.000424  
 MBD 0.000316  
 Fringe rate (Hz)  
 0.004017  
 Ion TEC 0.000  
 Ref freq (MHz)  
 87940.0000  
 AP (sec) 0.512



Exp. c202c  
 Exper # 16383  
 Yr:day 2020:286  
 Start 115501.54  
 Stop 120000.03  
 FRT 115730.00  
 Corr/FF/build  
 2021:039:063420  
 2021:039:064330  
 2020:247:085004  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

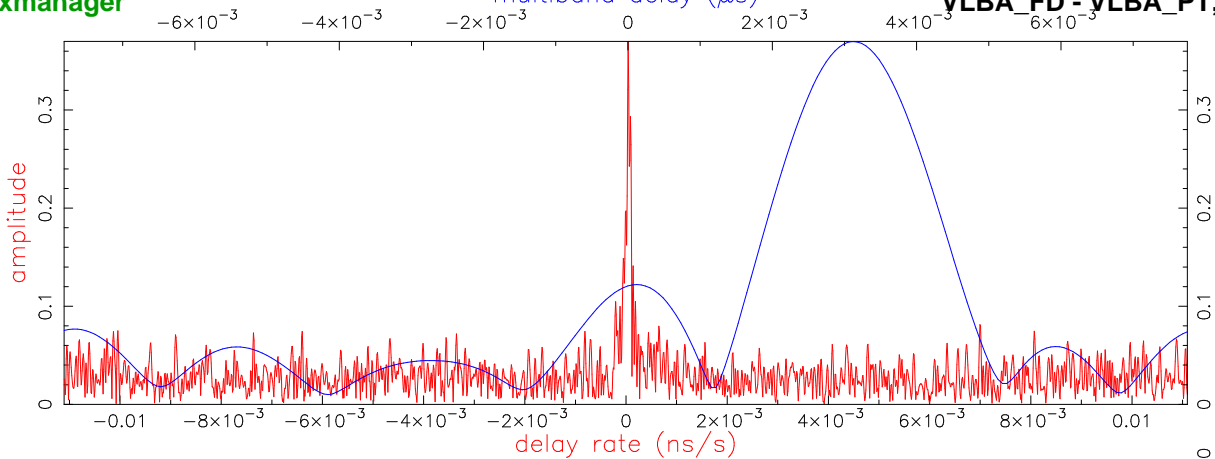
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



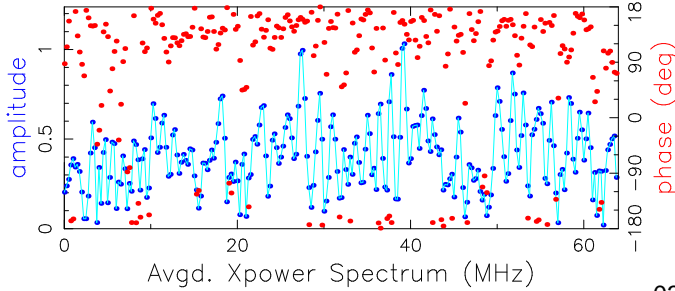
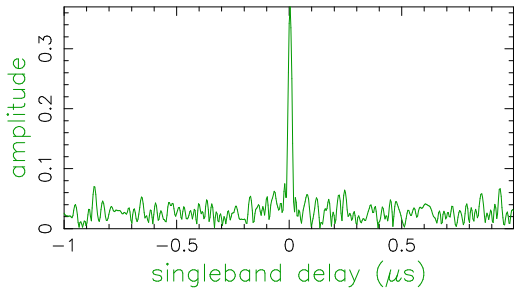
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-66.8	-65.4	-96.3	-106.9	-100.3	-91.2	-66.0	-69.5	Phase	-82.9
	1.1	1.4	1.5	1.2	1.0	0.9	1.1	1.1	Ampl.	1.1
	257.3	256.6	257.0	256.9	257.4	257.1	257.2	257.6	Sbd box	257.1
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.05274628444E+03		Apriori delay (usec)		-1.05274660031E+03		Resid mbdelay (usec)		3.15867E-04	+/- 2.1E-05
Sband delay (usec)	-1.05274617631E+03		Apriori clock (usec)		7.7900000E+00		Resid sbdelay (usec)		4.24000E-04	+/- 1.7E-04
Phase delay (usec)	-1.05274660293E+03		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-2.61914E-06	+/- 7.0E-08
Delay rate (us/s)	-7.86131918743E-02		Apriori rate (us/s)		-7.86132375521E-02		Resid rate (us/s)		4.56778E-08	+/- 4.1E-10
Total phase (deg)			Apriori accel (us/s/s)		1.59604037545E-06		Resid phase (deg)		-82.9	+/- 2.2

ph/seg (deg) 48.5 5.3 Search (2048X32) 1.065 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 46.7 9.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 19.0 3.2 Inc. seg. avg. 1.575 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 20.3 5.5 Inc. frq. avg. 1.134 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 f: az 299.7 el 51.9 pa 91.2 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) 617.535 -256.702 simultaneous interpolator  
 Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/fp..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/fp.W.6.1JFL7R

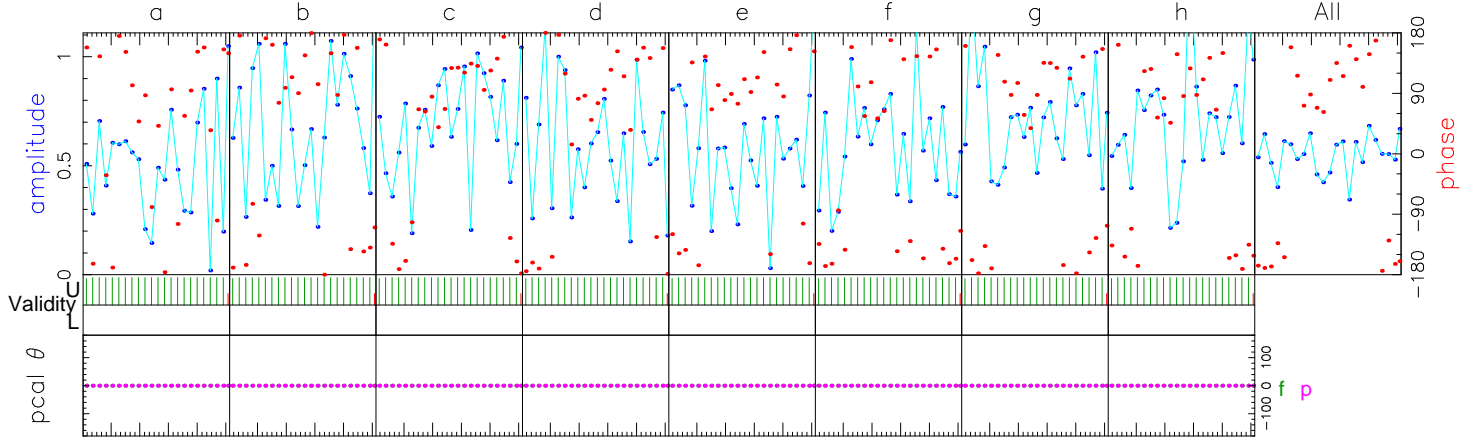
multiband delay ( $\mu$ s)



Fringe quality 9  
SNR 17.5  
Int time 297.976  
Amp 0.370  
Phase 151.5  
PFD 0.0e+00  
Delays (us)  
SBD 0.003661  
MBD 0.003121  
Fringe rate (Hz) 0.003994  
Ion TEC 0.000  
Ref freq (MHz) 87940.0000  
AP (sec) 0.512  
Exp. c202c  
Exper # 16383  
Yr:day 2020:286  
Start 115501.54  
Stop 120000.03  
FRT 115730.00  
Corr/FF/build 2021:039:063420  
2021:039:064340  
2020:247:085004  
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	149.6	173.4	131.6	142.0	150.3	160.5	155.7	150.1	Phase	151.5
	0.2	0.4	0.4	0.4	0.4	0.3	0.4	0.4	Ampl.	0.4
	257.6	257.9	257.4	258.0	257.8	258.7	257.9	258.4	Sbd box	257.9
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.05274347947E+03		Apriori delay (usec)		-1.05274660031E+03		Resid mbdelay (usec)		3.12084E-03	+/- 6.2E-05
Sband delay (usec)	-1.05274293981E+03		Apriori clock (usec)		7.7900000E+00		Resid sbdelay (usec)		3.66050E-03	+/- 4.9E-04
Phase delay (usec)	-1.05274659552E+03		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		4.78660E-06	+/- 2.1E-07
Delay rate (us/s)	-7.86131921325E-02		Apriori rate (us/s)		-7.86132375521E-02		Resid rate (us/s)		4.54196E-08	+/- 1.2E-09
Total phase (deg)	140.4		Apriori accel (us/s/s)		1.59604037545E-06		Resid phase (deg)		151.5	+/- 6.6

ph/seg (deg) 50.5 15.7 Search (2048X32) 0.363 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 53.4 27.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 13.4 9.3 Inc. seg. avg. 0.529 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 16.5 16.2 Inc. frq. avg. 0.373 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 f: az 299.7 el 51.9 pa 91.2 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) 617.535 -256.702 simultaneous interpolator  
 Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/fp..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/fp.W.66.1JFL7R



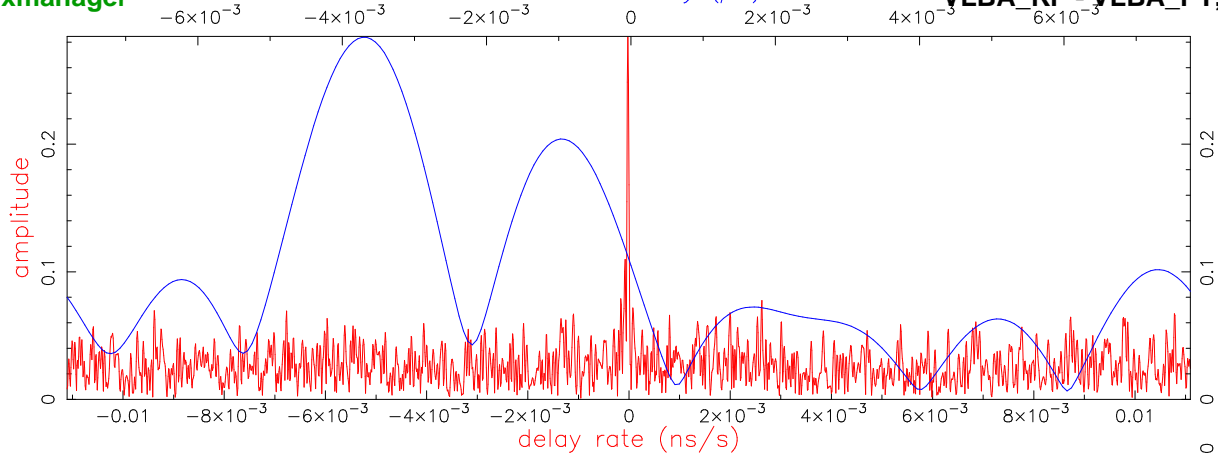
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1JFL7R, No0089, kp

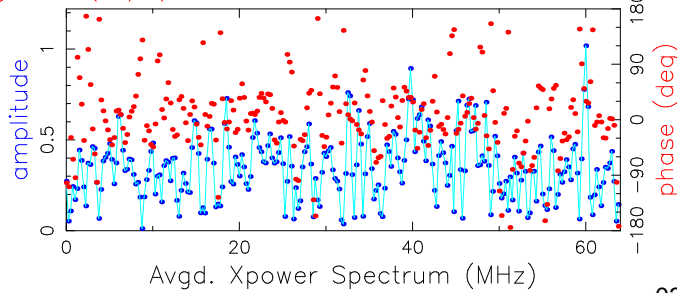
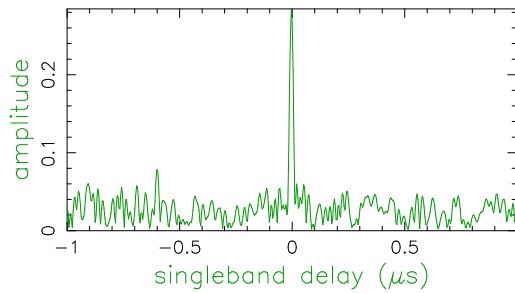
VLBA\_KP - VLBA\_PT, fgroup W, pol LR

multiband delay ( $\mu$ s)



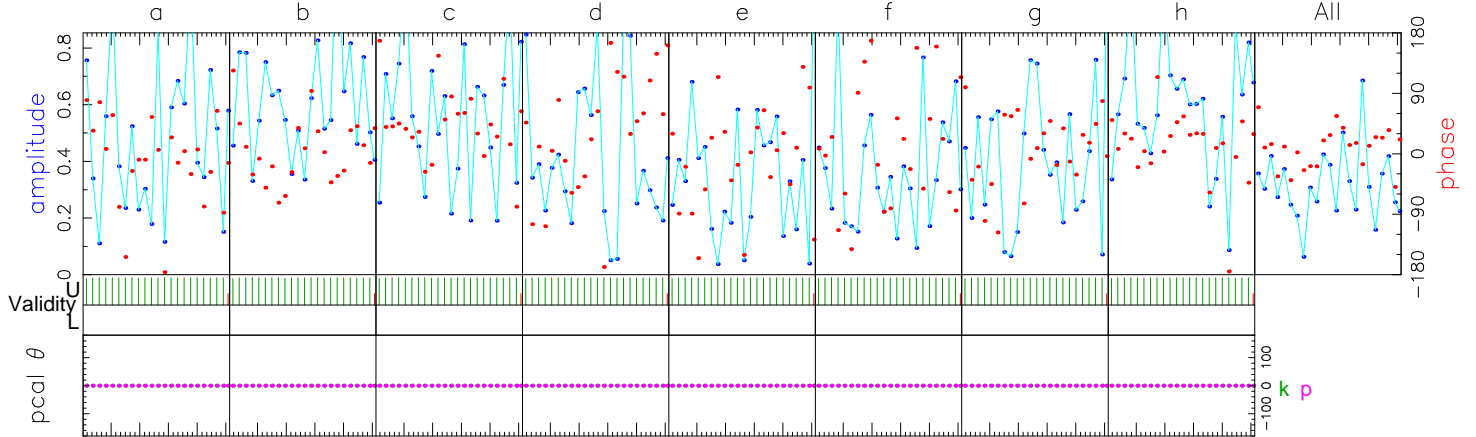
Fringe quality 9

SNR 13.4  
 Int time 295.384  
 Amp 0.285  
 Phase 10.7  
 PFD 4.9e-32  
 Delays (us)  
 SBD -0.003284  
 MBD -0.003683  
 Fringe rate (Hz)  
 -0.001790  
 Ion TEC 0.000  
 Ref freq (MHz)  
 87940.0000  
 AP (sec) 0.512



Exp. c202c  
 Exper # 16383  
 Yr:day 2020:286  
 Start 115501.54  
 Stop 120000.03  
 FRT 115730.00  
 Corr/FF/build  
 2021:039:063420  
 2021:039:064349  
 2020:247:085004  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All	
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0			
k	1000	1000	1000	1000	1000	1000	1000	1000			
p	1000	1000	1000	1000	1000	1000	1000	1000			
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
k	1000	1000	1000	1000	1000	1000	1000	1000			
p	1000	1000	1000	1000	1000	1000	1000	1000			
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)		3.15947519359E+02			3.15951201949E+02				Resid mbdelay (usec)	-3.68259E-03	+/- 8.1E-05
Sband delay (usec)		3.15947917699E+02			1.9684410E-01				Resid sbdelay (usec)	-3.28425E-03	+/- 6.4E-04
Phase delay (usec)		3.15951202287E+02			-2.9999999E-07				Resid phdelay (usec)	3.38266E-07	+/- 2.7E-07
Delay rate (us/s)		2.81182564253E-02			2.81182767763E-02				Resid rate (us/s)	-2.03511E-08	+/- 1.6E-09
Total phase (deg)		262.5			-4.24646852459E-06				Resid phase (deg)	10.7	+/- 8.6

ph/seg (deg) 29.4 20.5  
 amp/seg (%) 45.6 35.9  
 ph/frq (deg) 33.5 12.1  
 amp/frq (%) 47.9 21.2

RMS Theor. Amplitude 0.285 +/- 0.021  
 Search (2048X32) 0.276  
 Interp. 0.000  
 Inc. seg. avg. 0.301  
 Inc. frq. avg. 0.300

Group delay (usec)(sbd) 3.15947519359E+02  
 Apriori delay (usec) 3.15951201949E+02  
 Apriori clock (usec) 1.9684410E-01  
 Apriori clockrate (us/s) -2.9999999E-07  
 Apriori rate (us/s) 2.81182767763E-02  
 Apriori accel (us/s/s) -4.24646852459E-06

Pcal 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

k: az 298.6 el 58.3 pa 94.6 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) -225.578 -532.287 simultaneous interpolator

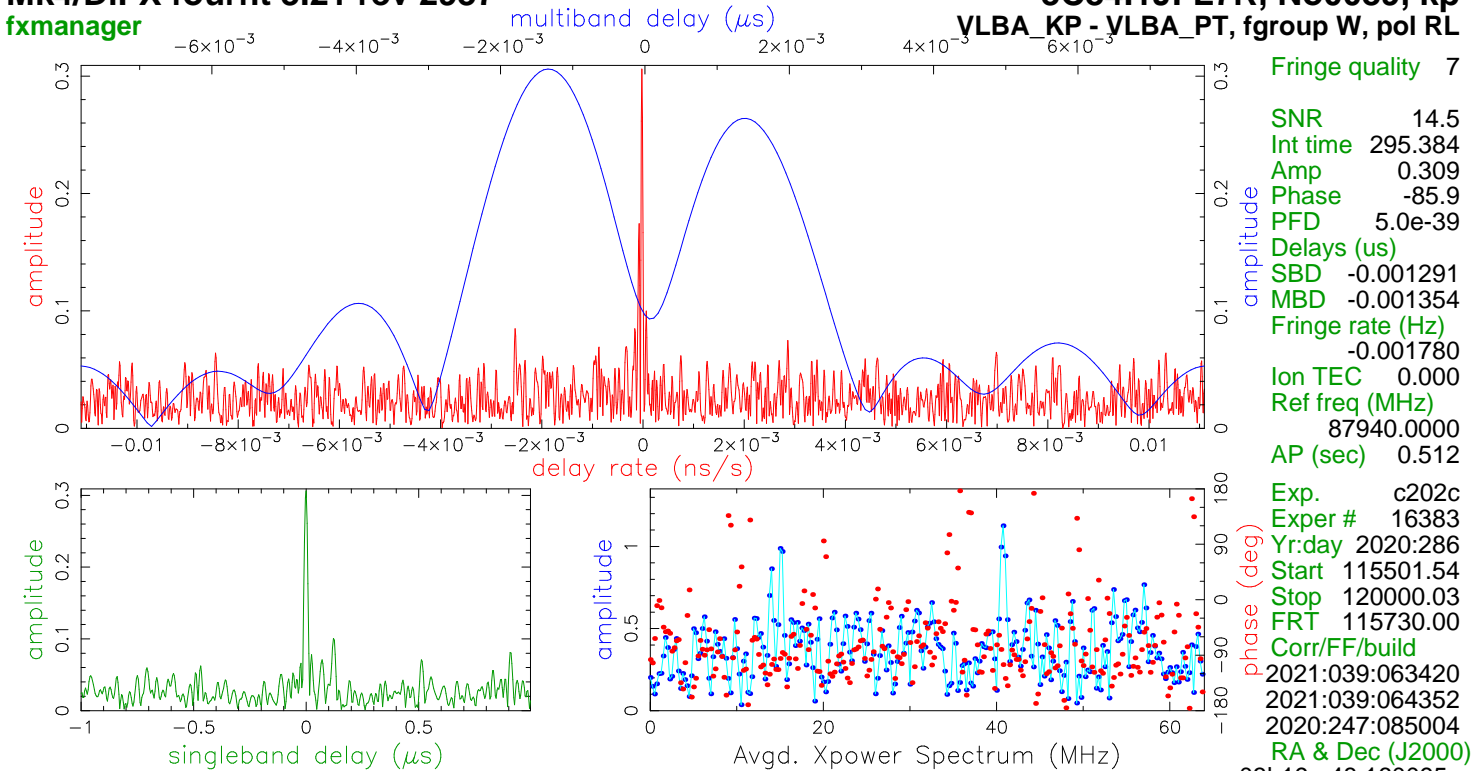
Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/kp..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/kp.W.114.1JFL7R

Mk4/DiFX fourfit 3.21 rev 2937

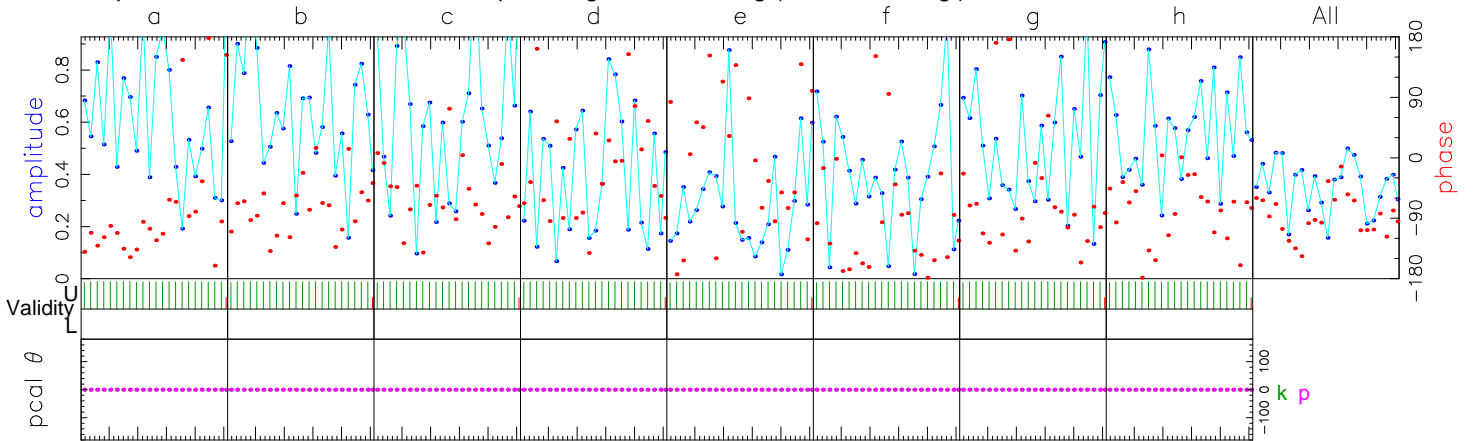
fxmanager

3C84.1JFL7R, No0089, kp

VLBA\_KP - VLBA\_PT, fgroup W, pol RL



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

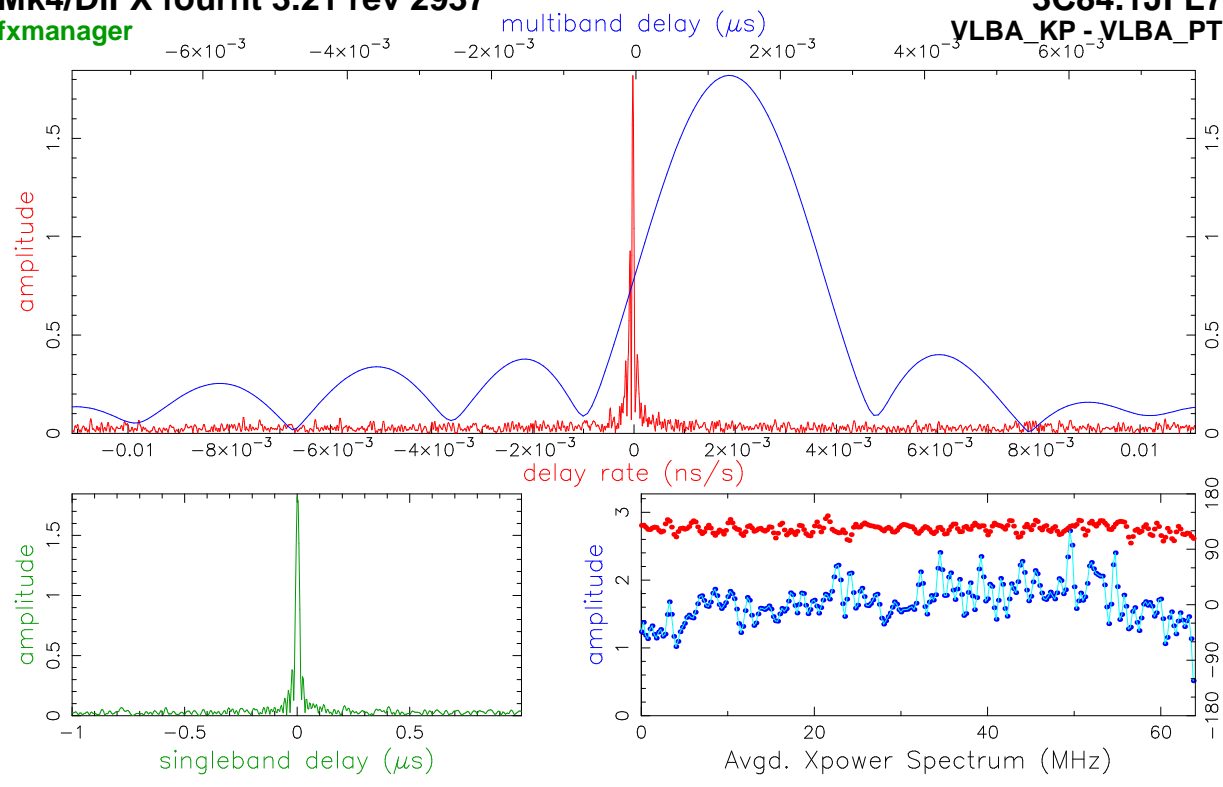


	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-115.8	-78.2	-65.5	-33.7	115.3	-117.5	-93.4	-84.3	Phase	-85.9
	0.5	0.5	0.5	0.2	0.0	0.2	0.4	0.4	Ampl.	0.3
	256.8	256.8	257.5	226.7	357.6	388.0	256.3	257.9	Sbd box	256.7
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.15949847515E+02		Apriori delay (usec)		3.15951201949E+02		Resid mbdelay (usec)		-1.35443E-03	+/- 7.5E-05
Sband delay (usec)	3.15949910699E+02		Apriori clock (usec)		1.9684410E-01		Resid sbdelay (usec)		-1.29125E-03	+/- 5.9E-04
Phase delay (usec)	3.15951199237E+02		Apriori clockrate (us/s)		-2.9999999E-07		Resid phdelay (usec)		-2.71214E-06	+/- 2.5E-07
Delay rate (us/s)	2.81182565307E-02		Apriori rate (us/s)		2.81182767763E-02		Resid rate (us/s)		-2.02456E-08	+/- 1.4E-09
Total phase (deg)	165.9		Apriori accel (us/s/s)		-4.24646852459E-06		Resid phase (deg)		-85.9	+/- 7.9

	RMS	Theor.	Amplitude	0.309 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
ph/seg (deg)	31.4	18.9	Search (2048X32)	0.302	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
amp/seg (%)	35.1	33.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	71.2	11.2	Inc. seg. avg.	0.337	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011	
amp/frq (%)	53.1	19.5	Inc. frq. avg.	0.335	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC) 0.00 0.00

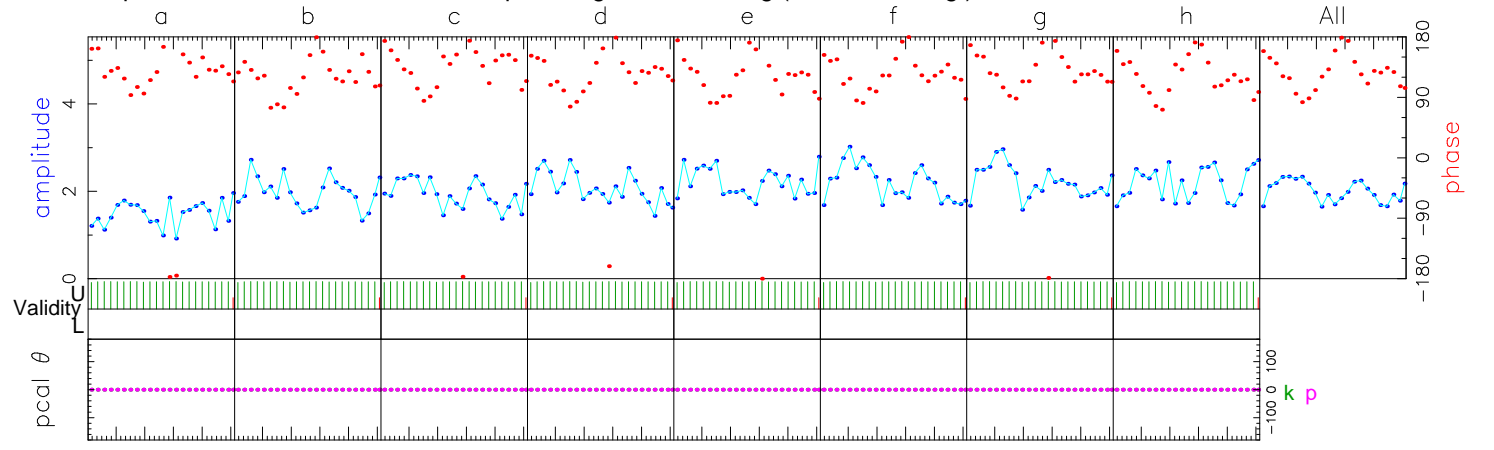
k: az 298.6 el 58.3 pa 94.6 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) -225.578 -532.287 simultaneous interpolator

Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/kp..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/kp.W.131.1JFL7R



Fringe quality 7  
SNR 86.8  
Int time 295.384  
Amp 1.846  
Phase 126.3  
PFD 0.0e+00  
Delays (us)  
SBD 0.001535  
MBD 0.001328  
Fringe rate (Hz)  
-0.001774  
Ion TEC 0.000  
Ref freq (MHz)  
87940.0000  
AP (sec) 0.512  
Exp. c202c  
Exper # 16383  
Yr:day 2020:286  
Start 115501.54  
Stop 120000.03  
FRT 115730.00  
Corr/FF/build  
2021:039:063420  
2021:039:064344  
2020:247:085004  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
133.4	119.6	136.2	127.0	122.4	123.4	131.0	120.2	120.2	Phase	126.3
1.4	1.8	1.7	1.8	1.9	2.0	2.0	2.0	2.0	Ampl.	1.8
257.1	257.3	257.5	257.4	257.3	257.4	257.3	257.3	257.6	Sbd box	257.4
U/L 583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	APs used	
k 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
kp 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.15952530234E+02		Apriori delay (usec)		3.15951201949E+02		Resid mbdelay (usec)		1.32829E-03	+/- 1.3E-05
Sband delay (usec)	3.15952736449E+02		Apriori clock (usec)		1.9684410E-01		Resid sbdelay (usec)		1.53450E-03	+/- 9.9E-05
Phase delay (usec)	3.15951205939E+02		Apriori clockrate (us/s)		-2.9999999E-07		Resid phdelay (usec)		3.99028E-06	+/- 4.2E-08
Delay rate (us/s)	2.81182566022E-02		Apriori rate (us/s)		2.81182767763E-02		Resid rate (us/s)		-2.01741E-08	+/- 2.4E-10
Total phase (deg)	18.1		Apriori accel (us/s/s)		-4.24646852459E-06		Resid phase (deg)		126.3	+/- 1.3

ph/seg (deg) 25.2 3.2 Search (2048X32) 1.793 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 15.5 5.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 6.8 1.9 Inc. seg. avg. 2.002 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
amp/frq (%) 11.1 3.3 Inc. frq. avg. 1.827 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
k: az 298.6 el 58.3 pa 94.6 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) -225.578 -532.287 simultaneous interpolator  
Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/kp..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/kp.W.82.1JFL7R

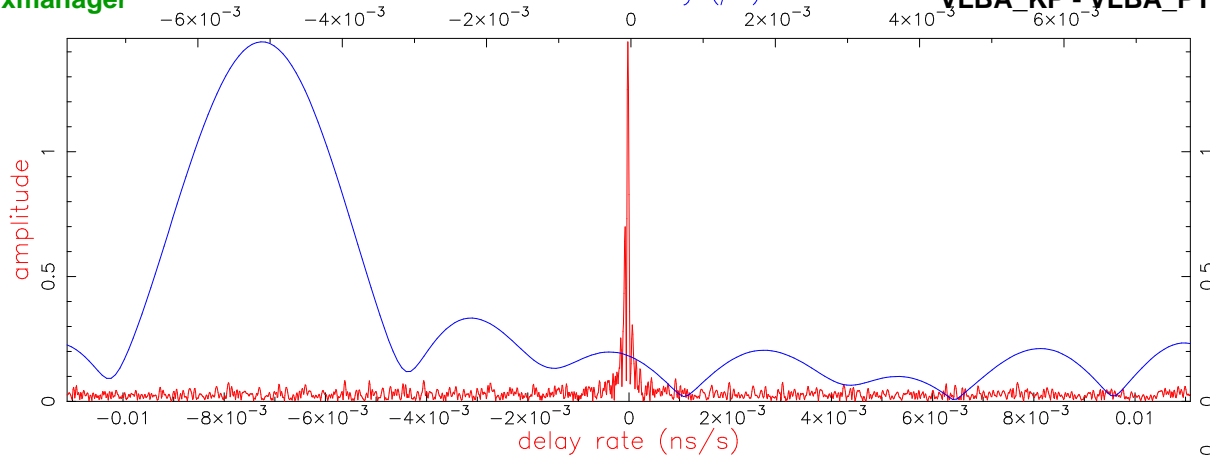
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1JFL7R, No0089, kp

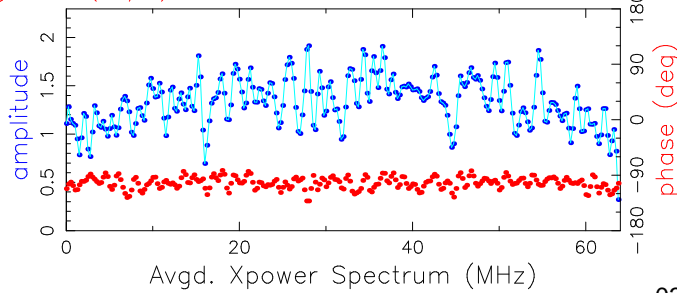
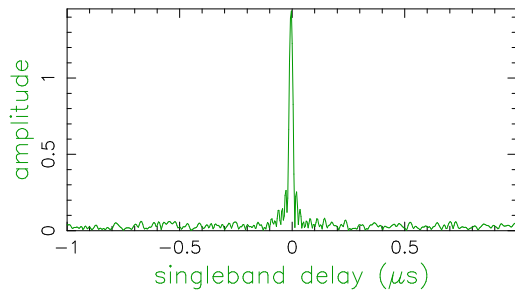
VLBA\_KP - VLBA\_PT, fgroup W, pol RR

multiband delay ( $\mu$ s)



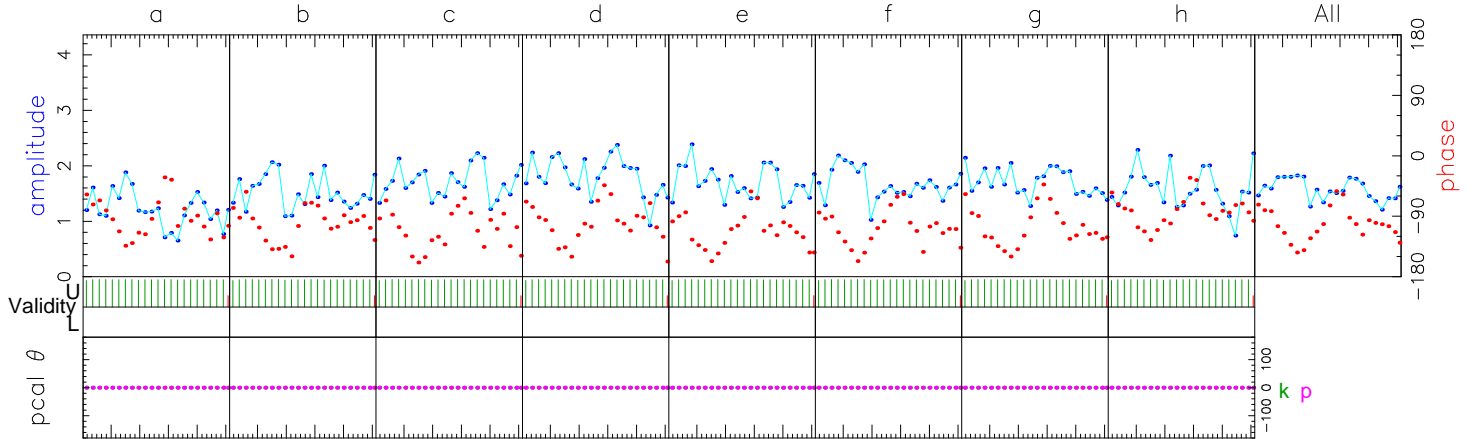
Fringe quality 7

SNR 68.3  
 Int time 295.384  
 Amp 1.454  
 Phase -102.5  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.005175  
 MBD -0.005147  
 Fringe rate (Hz)  
 -0.001797  
 Ion TEC 0.000  
 Ref freq (MHz)  
 87940.0000  
 AP (sec) 0.512



Exp. c202c  
 Exper # 16383  
 Yr:day 2020:286  
 Start 115501.54  
 Stop 120000.03  
 FRT 115730.00  
 Corr/FF/build  
 2021:039:063420  
 2021:039:064346  
 2020:247:085004  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-95.0	-102.1	-110.1	-98.5	-112.6	-109.6	-104.9	-84.3	Phase	-102.5
	1.1	1.4	1.5	1.6	1.5	1.5	1.5	1.5	Ampl.	1.5
	255.5	255.5	255.7	255.8	255.4	256.1	255.5	256.1	Sbd box	255.7
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.15946054859E+02		Apriori delay (usec)		3.15951201949E+02		Resid mbdelay (usec)		-5.14709E-03	+/- 1.6E-05
Sband delay (usec)	3.15946027199E+02		Apriori clock (usec)		1.9684410E-01		Resid sbdelay (usec)		-5.17475E-03	+/- 1.3E-04
Phase delay (usec)	3.15951198712E+02		Apriori clockrate (us/s)		-2.9999999E-07		Resid phdelay (usec)		-3.23698E-06	+/- 5.3E-08
Delay rate (us/s)	2.81182563454E-02		Apriori rate (us/s)		2.81182767763E-02		Resid rate (us/s)		-2.04309E-08	+/- 3.1E-10
Total phase (deg)	149.3		Apriori accel (us/s/s)		-4.24646852459E-06		Resid phase (deg)		-102.5	+/- 1.7

	RMS	Theor.	Amplitude	1.454 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	23.7	4.0	Search (2048X32)	1.408	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	15.2	7.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	10.1	2.4	Inc. seg. avg.	1.570	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	10.1	4.1	Inc. frq. avg.	1.456	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

k: az 298.6 el 58.3 pa 94.6 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) -225.578 -532.287 simultaneous interpolator

Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/kp..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/kp.W.98.1JFL7R

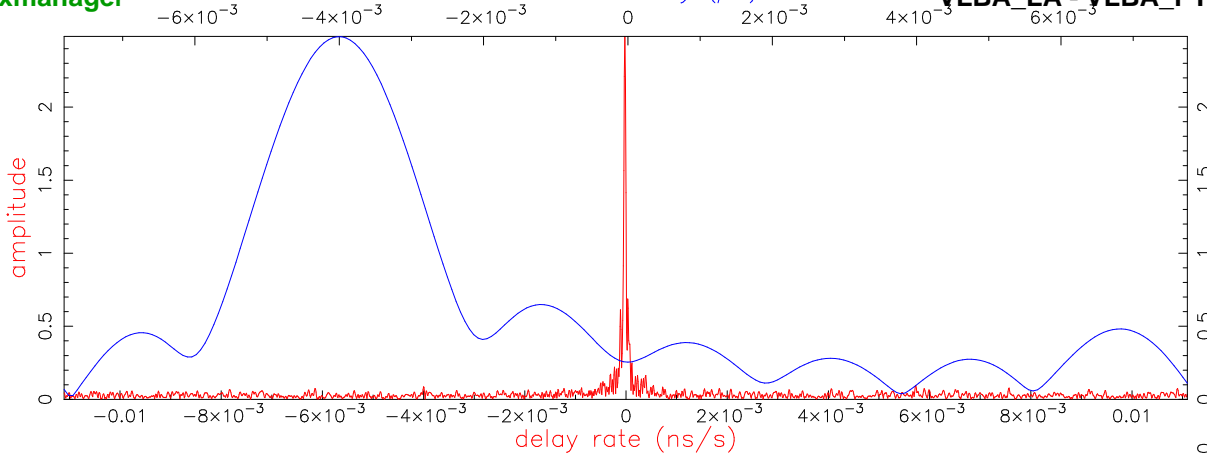
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1JFL7R, No0089, lp

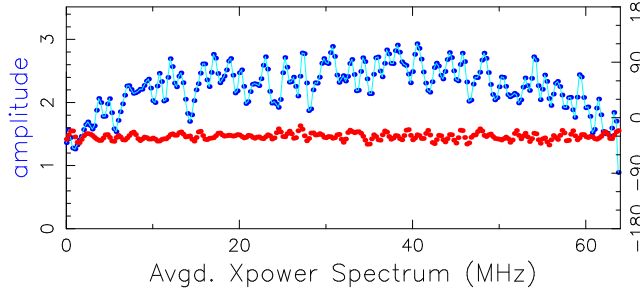
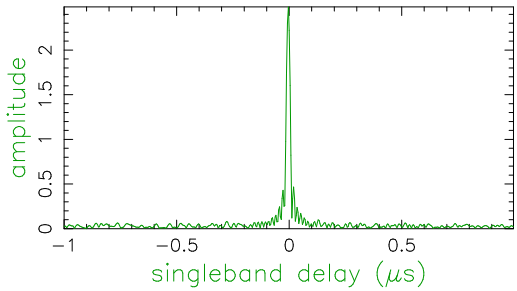
VLBA\_LA - VLBA\_PT, fgroup W, pol RR

multiband delay ( $\mu$ s)



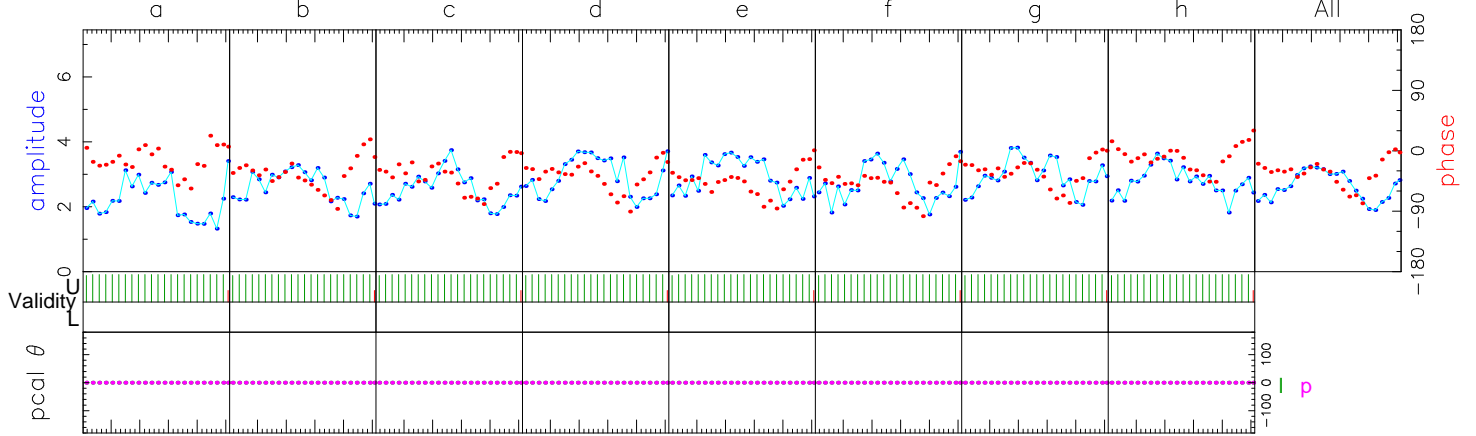
Fringe quality 7

SNR 117.3  
 Int time 297.976  
 Amp 2.484  
 Phase -33.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.004258  
 MBD -0.004011  
 Fringe rate (Hz)  
 -0.001871  
 Ion TEC 0.000  
 Ref freq (MHz)  
 87940.0000  
 AP (sec) 0.512



Exp. c202c  
 Yr:day 2020:286  
 Start 115501.54  
 Stop 120000.03  
 FRT 115730.00  
 Corr/FF/build  
 2021:039:063420  
 2021:039:064347  
 2020:247:085004  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-13.0	-35.4	-36.4	-37.5	-47.9	-48.4	-32.5	-10.6	Phase	-33.3
	2.1	2.4	2.4	2.8	2.8	2.5	2.8	2.7	Ampl.	2.5
	255.5	255.7	256.0	255.8	256.0	256.0	256.2	256.2	Sbd box	255.9
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.68539451906E+02			Apriori delay (usec)	-1.68535440723E+02			Resid mbdelay (usec)	-4.01118E-03	+/- 9.3E-06
Sband delay (usec)	-1.68539698723E+02			Apriori clock (usec)	-5.7192516E-01			Resid sbdelay (usec)	-4.25800E-03	+/- 7.3E-05
Phase delay (usec)	-1.68535441773E+02			Apriori clockrate (us/s)	-5.0000000E-07			Resid phdelay (usec)	-1.05082E-06	+/- 3.1E-08
Delay rate (us/s)	-1.08157080606E-02			Apriori rate (us/s)	-1.08156867885E-02			Resid rate (us/s)	-2.12721E-08	+/- 1.8E-10
Total phase (deg)		-269.8		Apriori accel (us/s/s)	2.46729804900E-06			Resid phase (deg)	-33.3	+/- 1.0

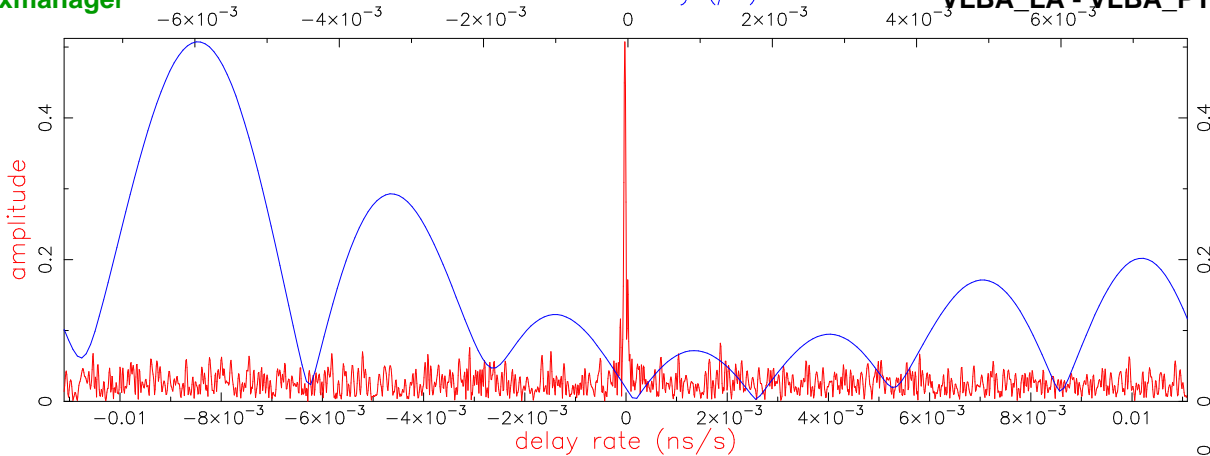
	RMS	Theor.	Amplitude	2.484 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	19.9	2.3	Search (2048X32)	2.473	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	18.1	4.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	15.3	1.4	Inc. seg. avg.	2.629	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	9.6	2.4	Inc. frq. avg.	2.547	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

l: az 293.3 el 55.9 pa 84.8 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) 87.890 317.065 simultaneous interpolator

Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/lp..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/lp.W.101.1JFL7R

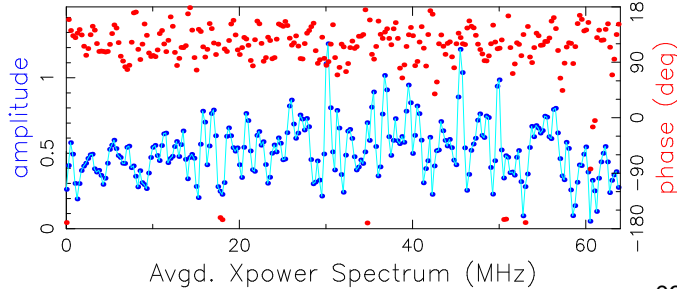
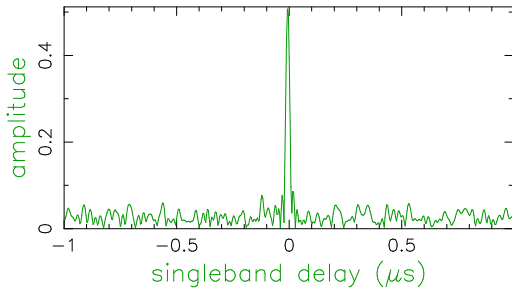


multiband delay ( $\mu$ s)



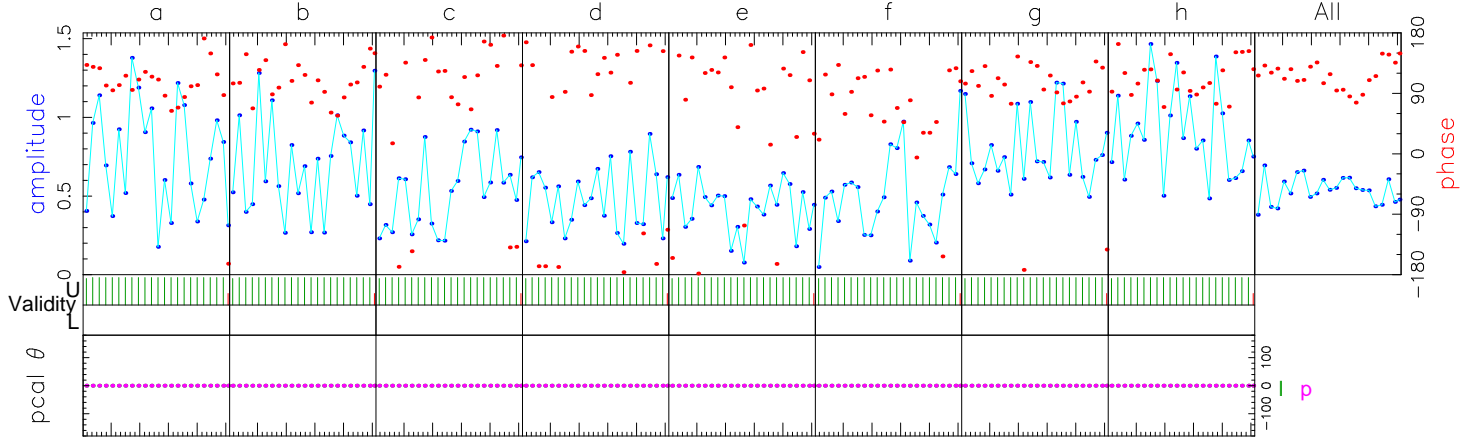
Fringe quality 9

SNR 24.2  
Int time 297.976  
Amp 0.512  
Phase 115.0  
PFD 0.0e+00  
Delays (us)  
SBD -0.006535  
MBD -0.005941  
Fringe rate (Hz)  
-0.001908  
Ion TEC 0.000  
Ref freq (MHz)  
87940.0000  
AP (sec) 0.512

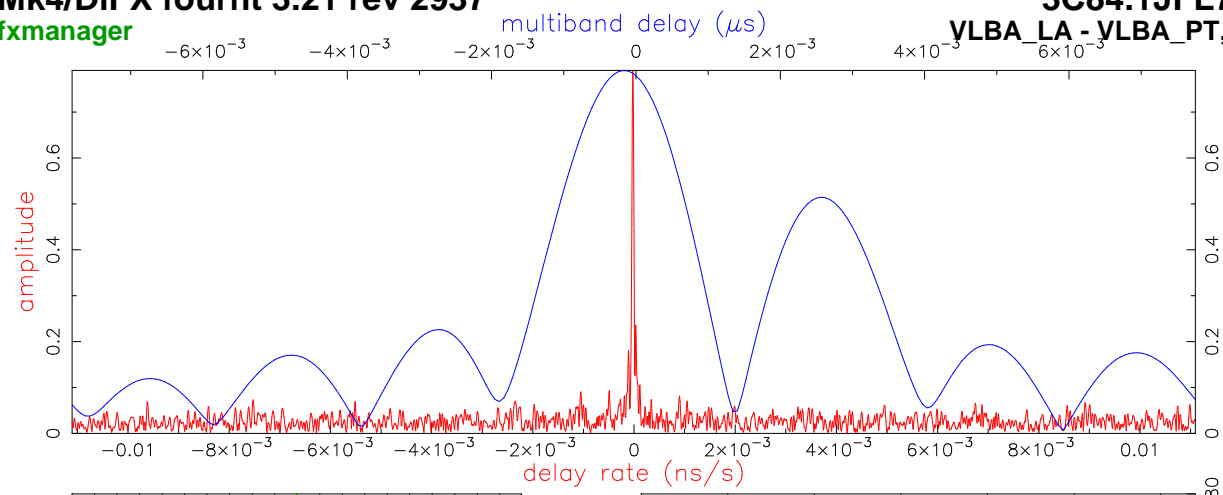


Exp. c202c  
Exper # 16383  
Yr:day 2020:286  
Start 115501.54  
Stop 120000.03  
FRT 115730.00  
Corr/FF/build  
2021:039:063420  
2021:039:064350  
2020:247:085004  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

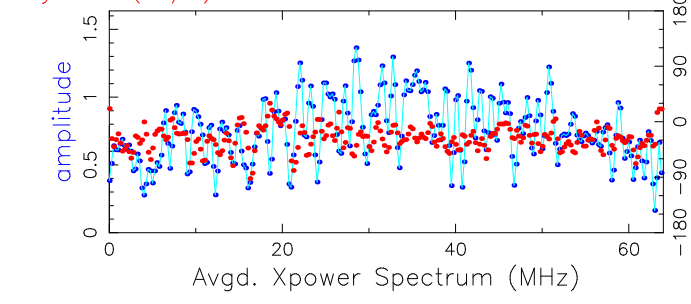
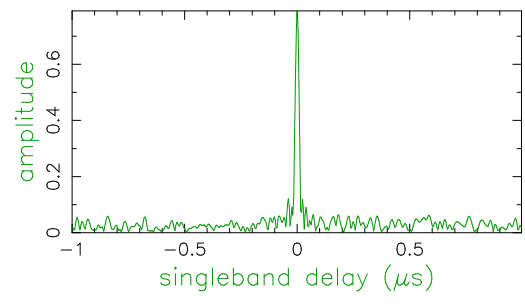
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



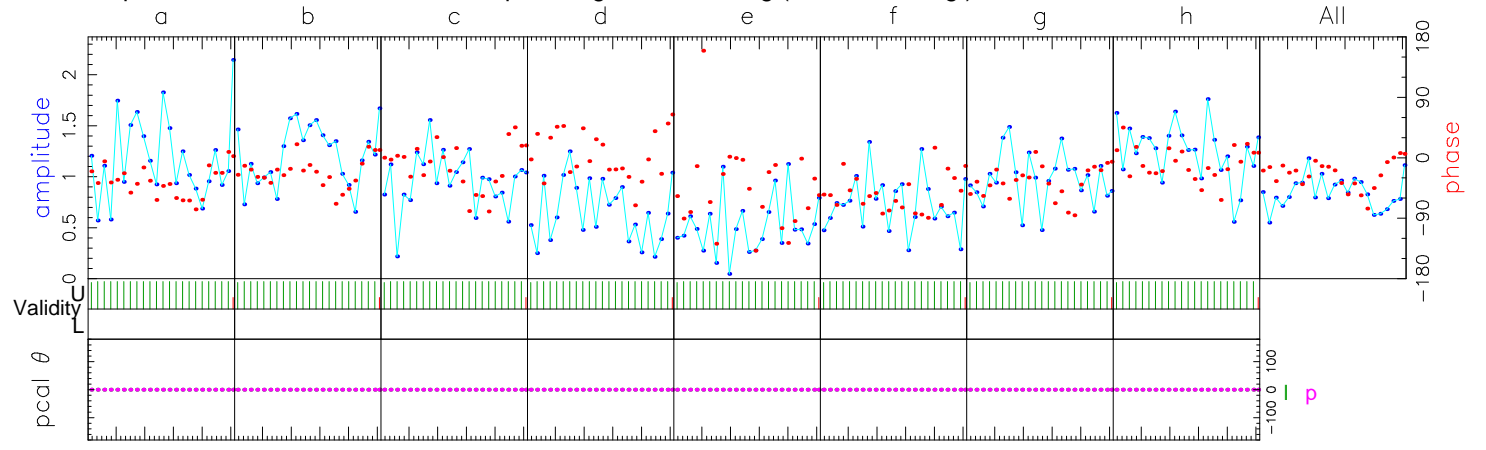
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.68541381750E+02									
Sband delay (usec)	-1.68541975223E+02									
Phase delay (usec)	-1.68535437089E+02									
Delay rate (us/s)	-1.08157084846E-02									
Total phase (deg)		-121.5								
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									115.0	+/- 4.5E-05
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										
PC period (AP's) 5, 5										
sb window (us)										-1.000 1.000
SampCntNorm: enabled										
mb window (us)										-0.008 0.008
dr window (ns/s)										-0.011 0.011
nlags: 256 t_cohere infinite										
ion window (TEC)										0.00 0.00



Fringe quality 7  
SNR 37.3  
Int time 297.976  
Amp 0.791  
Phase -25.5  
PFD 0.0e+00  
Delays (us)  
SBD -0.000140  
MBD -0.000165  
Fringe rate (Hz) -0.001927  
Ion TEC 0.000  
Ref freq (MHz) 87940.0000  
AP (sec) 0.512  
Exp. c202c  
Exper # 16383  
Yr:day 2020:286  
Start 115501.54  
Stop 120000.03  
FRT 115730.00  
Corr/FF/build  
2021:039:063420  
2021:039:064352  
2020:247:085004  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

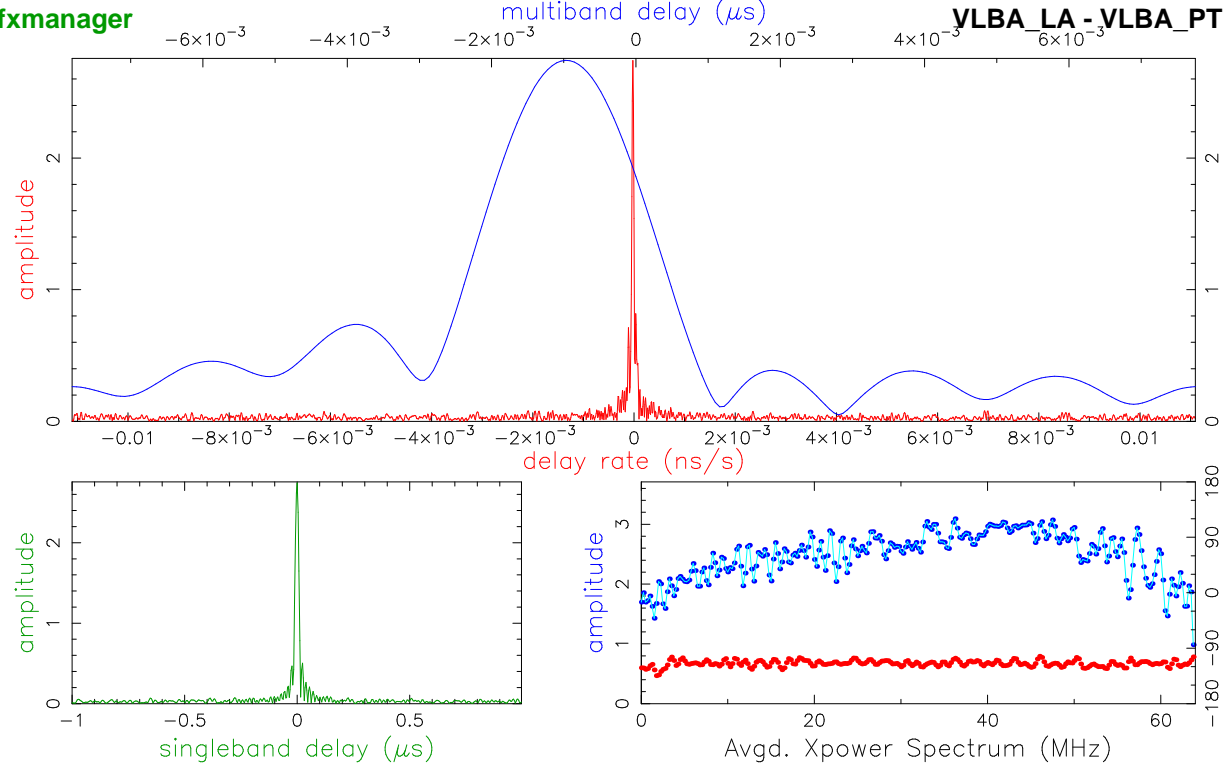


Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



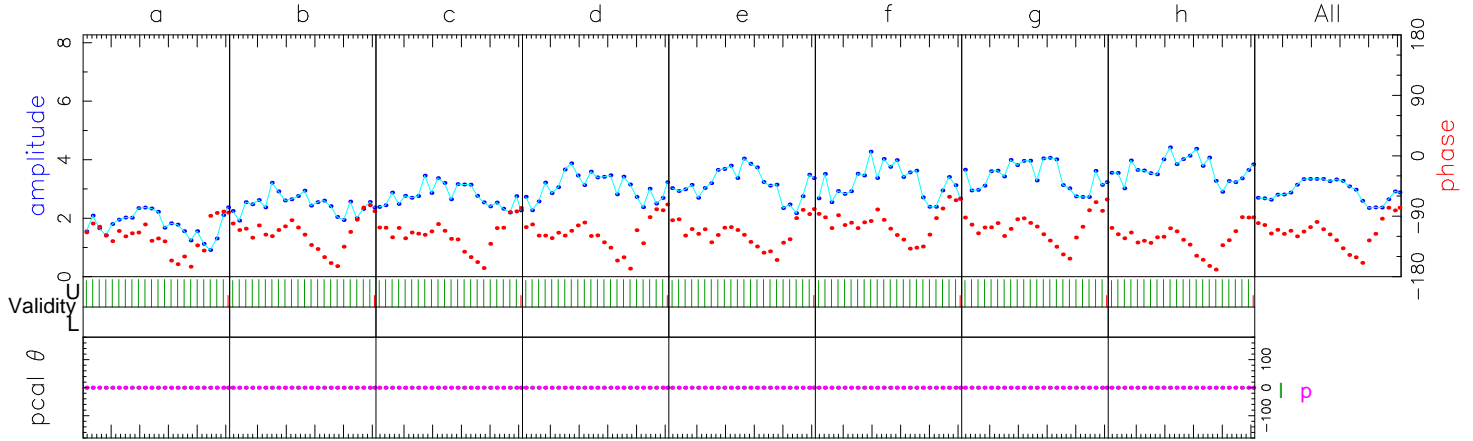
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-34.9	-20.3	-12.3	1.6	-51.9	-56.4	-38.6	-8.5		Phase
	1.1	1.1	0.8	0.6	0.4	0.7	0.9	1.2		Ampl.
	257.1	256.9	257.2	256.9	256.3	257.3	256.9	257.5		Sbd box
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0		APs used
l	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
p	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Manl PC
l	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
p	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks
										Tracks
Group delay (usec)(sbd)	-1.68535606093E+02		Apriori delay (usec)		-1.68535440723E+02		Resid mbdelay (usec)		-1.65371E-04	+/- 2.9E-05
Sband delay (usec)	-1.68535581223E+02		Apriori clock (usec)		-5.7192516E-01		Resid sbdelay (usec)		-1.40500E-04	+/- 2.3E-04
Phase delay (usec)	-1.68535441529E+02		Apriori clockrate (us/s)		-5.0000000E-07		Resid phdelay (usec)		-8.06102E-07	+/- 9.7E-08
Delay rate (us/s)	-1.08157087033E-02		Apriori rate (us/s)		-1.08156867885E-02		Resid rate (us/s)		-2.19148E-08	+/- 5.6E-10
Total phase (deg)			Apriori accel (us/s/s)		2.46729804900E-06		Resid phase (deg)		-25.5	+/- 3.1

ph/seg (deg) 20.0 7.4 Search (2048X32) 0.779 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 19.6 12.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 22.9 4.3 Inc. seg. avg. 0.833 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
amp/frq (%) 34.5 7.6 Inc. frq. avg. 0.827 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
l: az 293.3 el 55.9 pa 84.8 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) 87.890 317.065 simultaneous interpolator  
Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/lp..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/lp.W.134.1JFL7R



Fringe quality 8  
SNR 130.1  
Int time 297.976  
Amp 2.757  
Phase -114.6  
PFD 0.0e+00  
Delays (us)  
SBD -0.000969  
MBD -0.000986  
Fringe rate (Hz)  
-0.001884  
Ion TEC 0.000  
Ref freq (MHz)  
87940.0000  
AP (sec) 0.512  
Exp. c202c  
Exper # 16383  
Yr:day 2020:286  
Start 115501.54  
Stop 120000.03  
FRT 115730.00  
Corr/FF/build  
2021:039:063420  
2021:039:064344  
2020:247:085004  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-119.5	-115.1	-118.7	-117.3	-115.6	-101.1	-107.3	-124.6	Phase	-114.6
	1.7	2.3	2.6	2.9	3.0	3.0	3.2	3.5	Ampl.	2.8
	256.6	256.7	256.6	256.9	256.9	256.8	256.5	256.8	Sbd box	256.8
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.68536426250E+02		Apriori delay (usec)		-1.68535440723E+02		Resid mbdelay (usec)		-9.85527E-04	+/- 8.3E-06
Sband delay (usec)	-1.68536409473E+02		Apriori clock (usec)		-5.7192516E-01		Resid sbdelay (usec)		-9.68750E-04	+/- 6.6E-05
Phase delay (usec)	-1.68535444344E+02		Apriori clockrate (us/s)		-5.0000000E-07		Resid phdelay (usec)		-3.62145E-06	+/- 2.8E-08
Delay rate (us/s)	-1.08157082160E-02		Apriori rate (us/s)		-1.08156867885E-02		Resid rate (us/s)		-2.14275E-08	+/- 1.6E-10
Total phase (deg)			Apriori accel (us/s/s)		2.46729804900E-06		Resid phase (deg)		-114.6	+/- 0.9

RMS Theor. Amplitude 2.757 +/- 0.021  
 ph/seg (deg) 20.6 2.1 Search (2048X32) 2.740 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 13.5 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) 8.0 1.2 Inc. seg. avg. 2.917 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 19.5 2.2 Inc. frq. avg. 2.763 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 l: az 293.3 el 55.9 pa 84.8 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) 87.890 317.065 ion window (TEC) 0.00 0.00  
 simultaneous interpolator

Mk4/DiFX fourfit 3.21 rev 2937

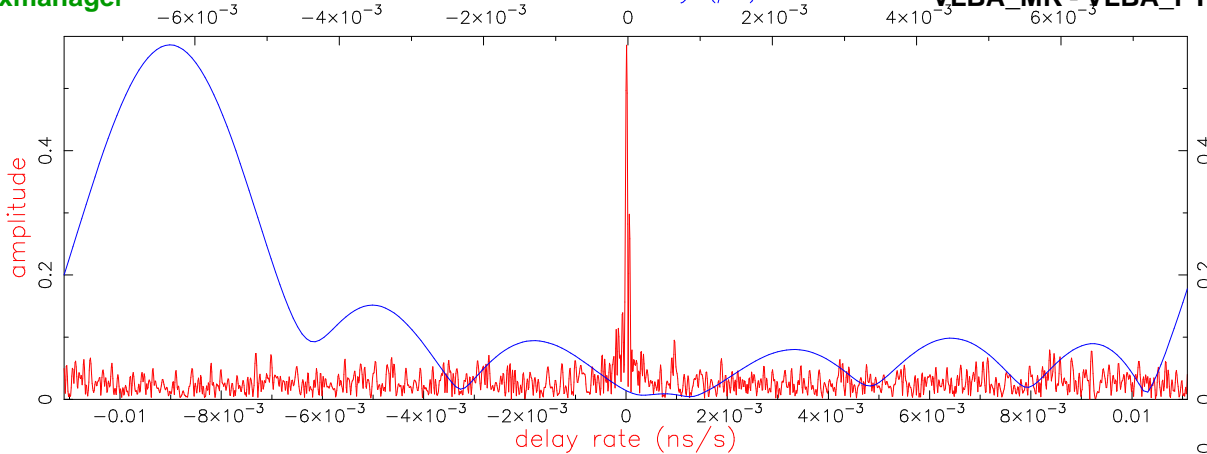
fxmanager

3C84.1JFL7R, No0089, mp

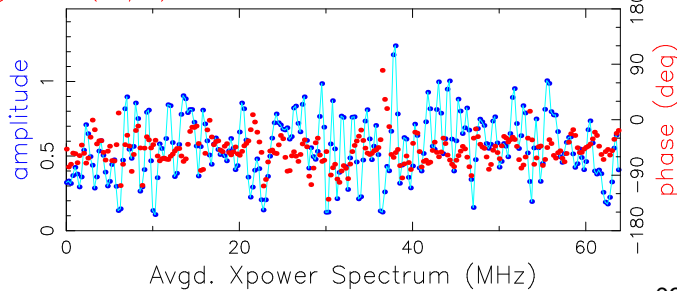
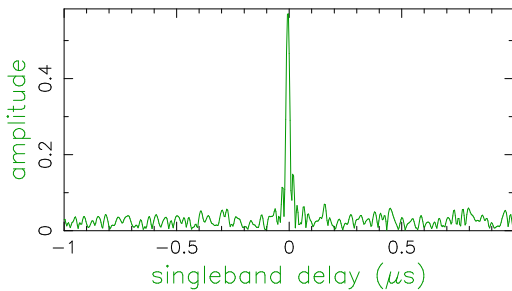
VLBA\_MK - VLBA\_PT, fgroup W, pol RR

multiband delay ( $\mu$ s)

Fringe quality 8

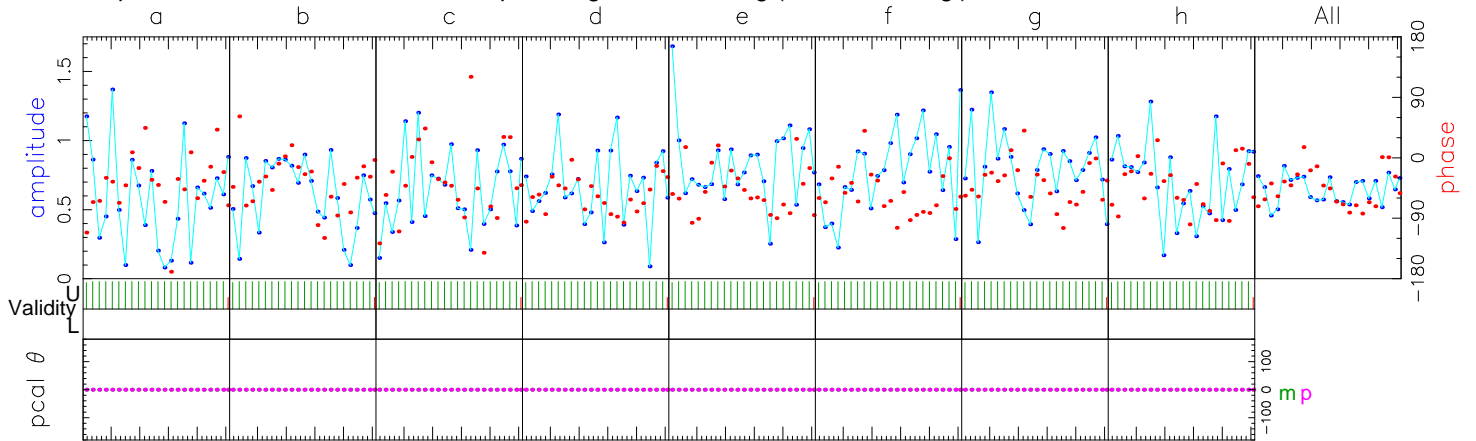


SNR 27.6  
 Int time 297.976  
 Amp 0.584  
 Phase -44.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.005824  
 MBD -0.006289  
 Fringe rate (Hz)  
 0.000762  
 Ion TEC 0.000  
 Ref freq (MHz)  
 87940.0000  
 AP (sec) 0.512



Exp. c202c  
 Exper # 16383  
 Yr:day 2020:286  
 Start 115501.54  
 Stop 120000.03  
 FRT 115730.00  
 Corr/FF/build  
 2021:039:063420  
 2021:039:064347  
 2020:247:085004  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-37.4	-34.9	-31.9	-55.2	-48.6	-58.3	-37.7	-43.4	Phase	-44.3
	0.5	0.5	0.4	0.6	0.7	0.6	0.7	0.6	Ampl.	0.6
	256.1	255.7	255.3	255.4	255.4	255.7	255.1	255.5	Sbd box	255.5
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.07719541442E+03		Apriori delay (usec)		2.07720170390E+03		Resid mbdelay (usec)		-6.28949E-03	+/- 3.9E-05
Sband delay (usec)	2.07719587965E+03		Apriori clock (usec)		1.3235845E+01		Resid sbdelay (usec)		-5.82425E-03	+/- 3.1E-04
Phase delay (usec)	2.07720170250E+03		Apriori clockrate (us/s)		-2.9999999E-07		Resid phdelay (usec)		-1.39874E-06	+/- 1.3E-07
Delay rate (us/s)	7.40842991485E-01		Apriori rate (us/s)		7.40842982824E-01		Resid rate (us/s)		8.66111E-09	+/- 7.6E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.77760191830E-05		Resid phase (deg)		-44.3	+/- 4.2

ph/seg (deg) 27.8 10.0 Search (2048X32) 0.567 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 19.6 17.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 10.6 5.9 Inc. seg. avg. 0.634 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 16.4 10.3 Inc. frq. avg. 0.574 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 m: az 11.4 el 67.7 pa -165.2 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) -5828.086 -3447.265 simultaneous interpolator  
 Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/mp..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/mp.W.107.1JFL7R

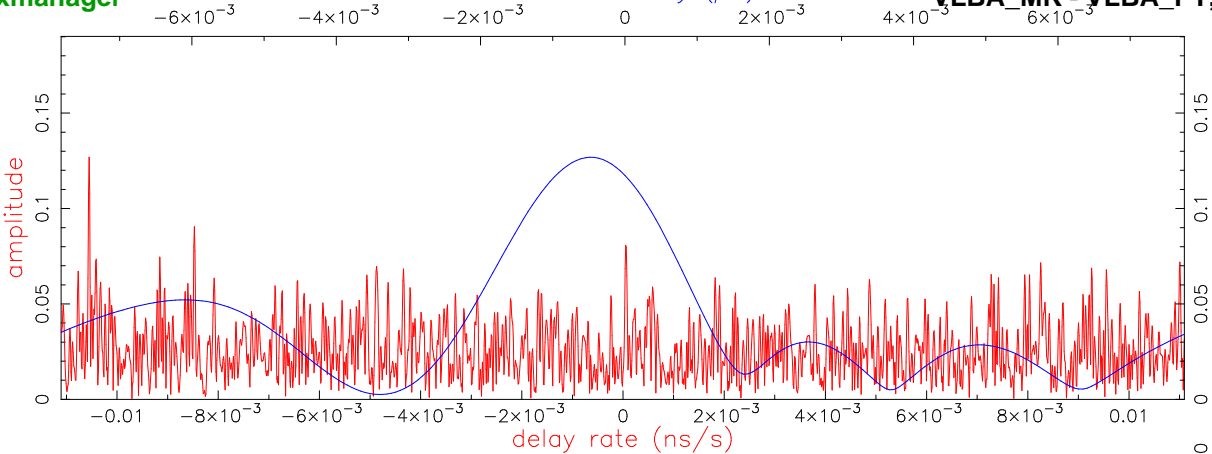
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1JFL7R, No0089, mp

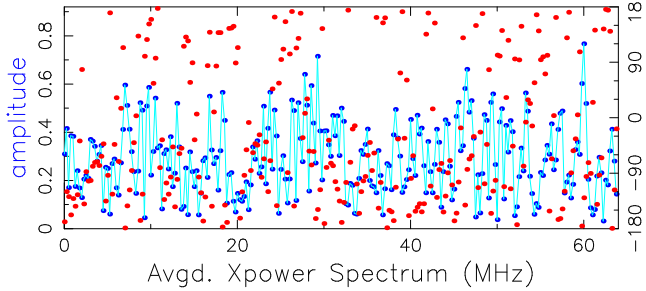
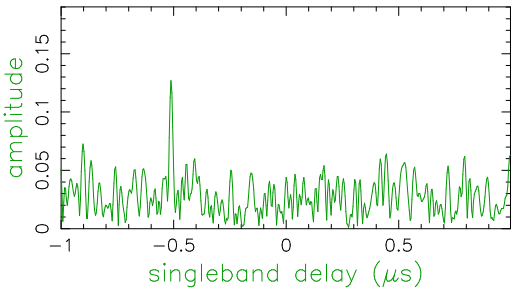
VLBA\_MK - VLBA\_PT, fgroup W, pol LR

multiband delay ( $\mu$ s)



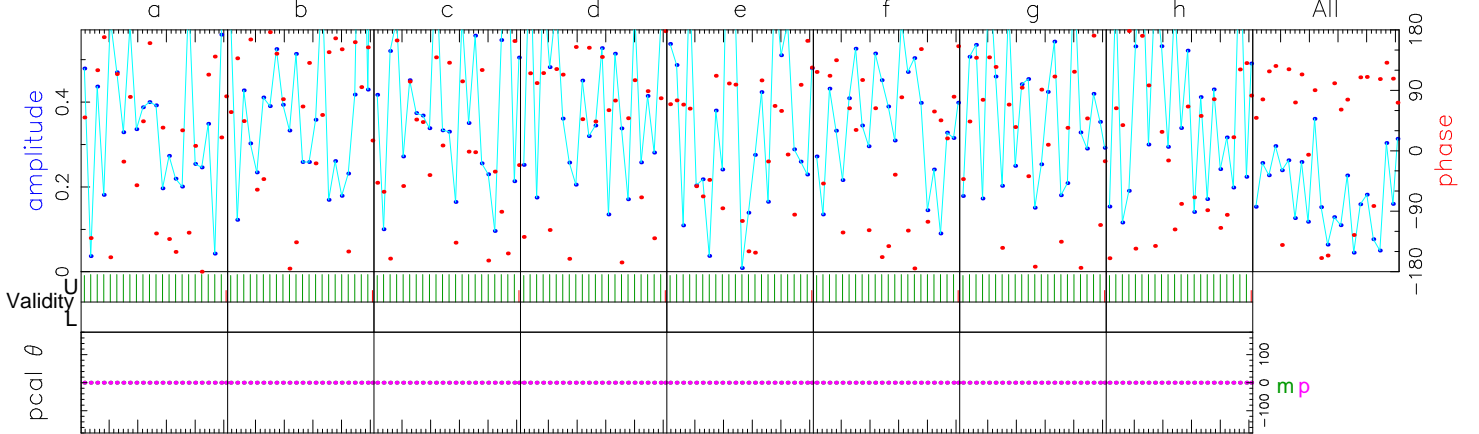
Fringe quality 0

SNR 6.0  
 Int time 297.976  
 Amp 0.190  
 Phase 107.6  
 PFD 4.2e-01  
 Delays (us)  
 SBD -0.511455  
 MBD -0.000460  
 Fringe rate (Hz)  
 -0.929082  
 Ion TEC 0.000  
 Ref freq (MHz)  
 87940.0000  
 AP (sec) 0.512



Exp. c202c  
 Exper # 16383  
 Yr:day 2020:286  
 Start 115501.54  
 Stop 120000.03  
 FRT 115730.00  
 Corr/FF/build  
 2021:039:063420  
 2021:039:064350  
 2020:247:085004  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	106.3	109.4	140.4	118.8	78.2	115.2	102.8	132.7	Phase	107.6
	0.1	0.2	0.1	0.4	0.3	0.2	0.3	0.1	Ampl.	0.2
	194.2	323.7	69.8	470.0	125.4	255.2	91.9	182.0	Sbd box	126.1
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	2.07668561862E+03	Apriori delay (usec)	2.07720170390E+03	Resid mbdelay (usec)	-4.60281E-04	+/-	1.8E-04
Sband delay (usec)	2.07669024940E+03	Apriori clock (usec)	1.3235845E+01	Resid sbdelay (usec)	-5.11455E-01	+/-	1.4E-03
Phase delay (usec)	2.07720170730E+03	Apriori clockrate (us/s)	-2.9999999E-07	Resid phdelay (usec)	3.40019E-06	+/-	6.0E-07
Delay rate (us/s)	7.40832417868E-01	Apriori rate (us/s)	7.40842982824E-01	Resid rate (us/s)	-1.05650E-05	+/-	3.5E-09
Total phase (deg)	50.5	Apriori accel (us/s/s)	-2.77760191830E-05	Resid phase (deg)	107.6	+/-	19.1

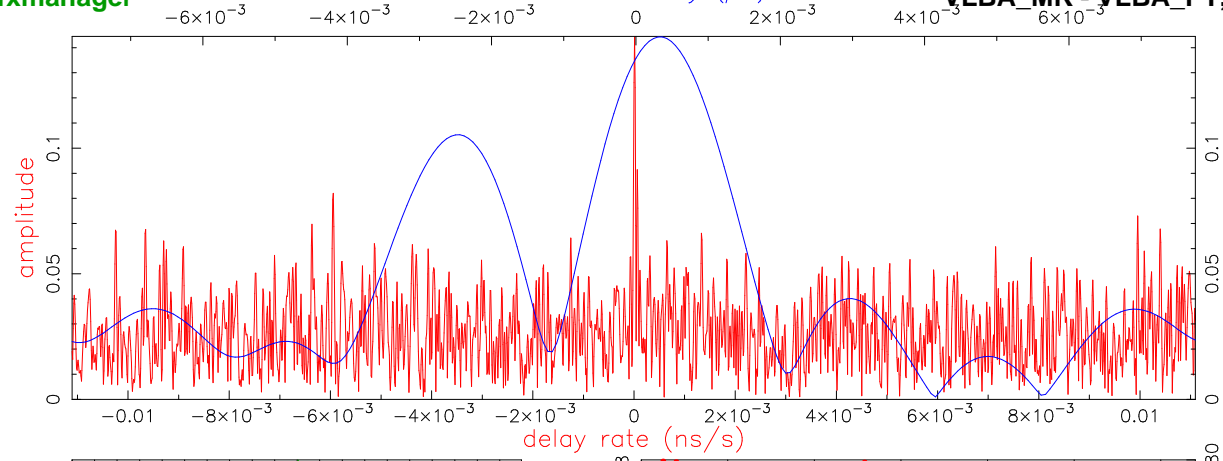
ph/seg (deg)	66.6	Theor.	45.9	Amplitude	0.190 +/- 0.032	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	81.7		80.1	Search (2048X32)	0.125	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	21.5		27.1	Inc. seg. avg.	0.207	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	51.6		47.2	Inc. frq. avg.	0.179	Sample rate(MSamp/s): 128		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

m: az 11.4 el 67.7 pa -165.2 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) -5828.086 -3447.265 simultaneous interpolator

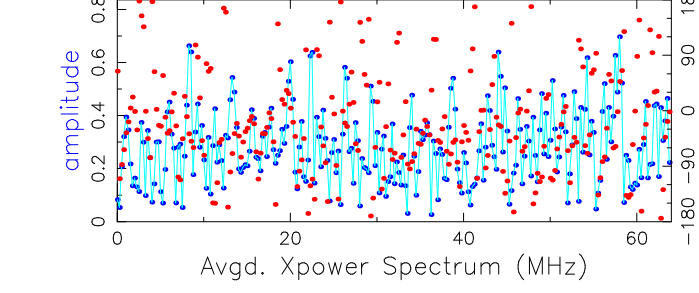
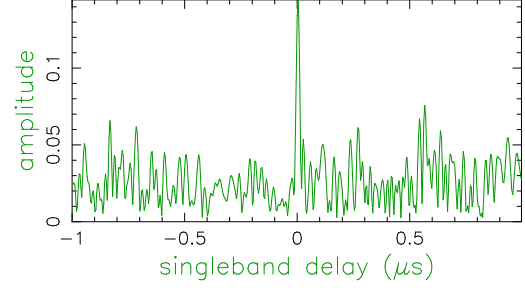
Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/mp..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/mp.W.122.1JFL7R



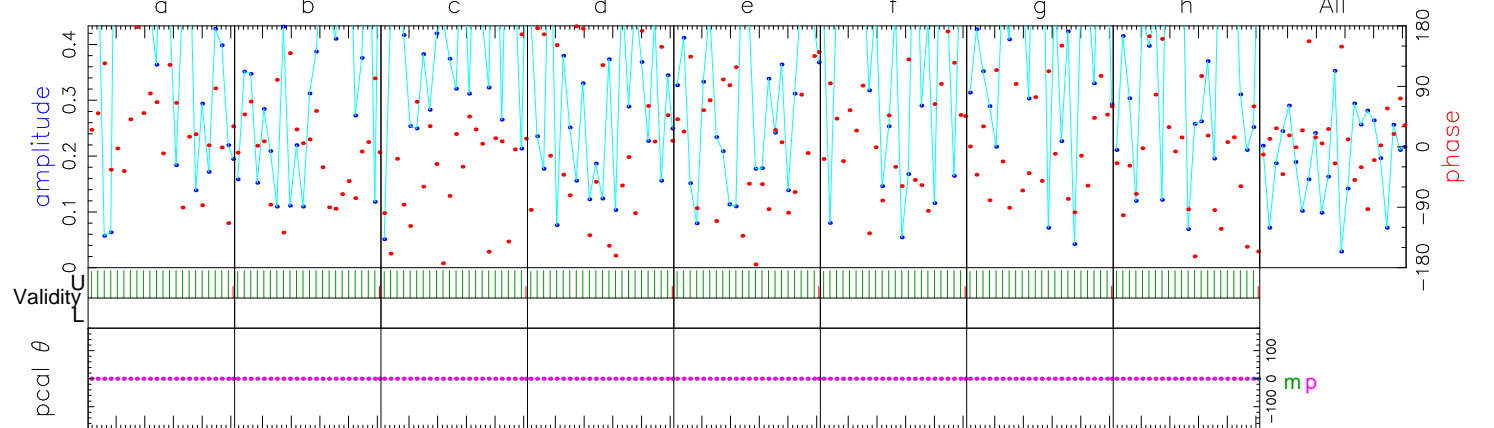
multiband delay ( $\mu\text{s}$ )



Fringe quality 0  
SNR 6.8  
Int time 297.976  
Amp 0.144  
Phase -3.6  
PFD 2.7e-03  
Delays (us)  
SBD 0.003425  
MBD 0.000320  
Fringe rate (Hz) 0.001073  
Ion TEC 0.000  
Ref freq (MHz) 87940.0000  
AP (sec) 0.512  
Exp. c202c  
Exper # 16383  
Yr:day 2020:286  
Start 115501.54  
Stop 120000.03  
FRT 115730.00  
Corr/FF/build 2021:039:063420  
2021:039:064353  
2020:247:085004  
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"



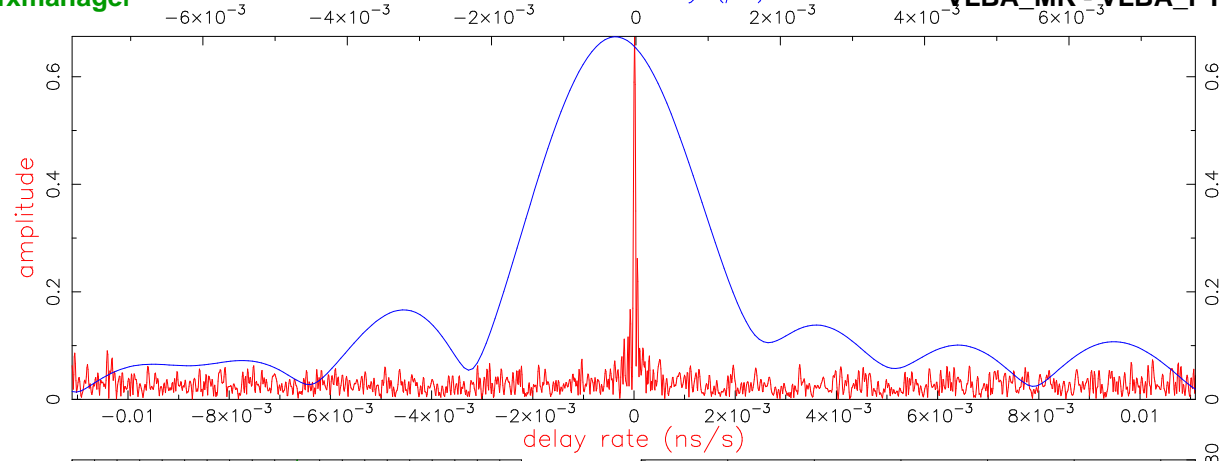
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



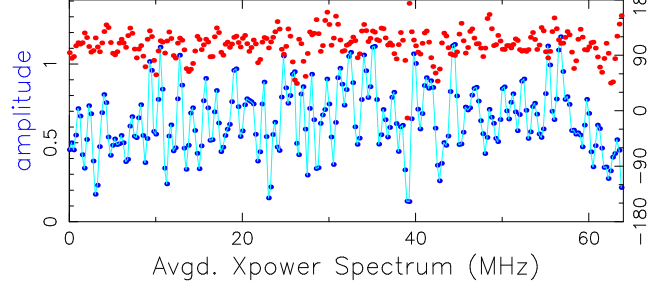
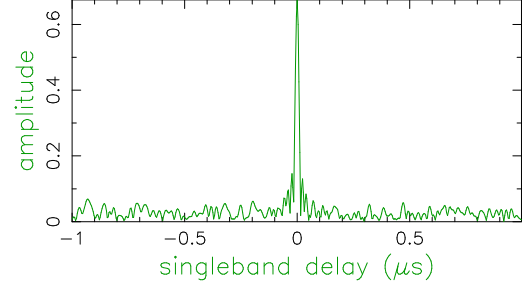
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	22.2	-23.3	-24.0	-74.1	15.3	19.4	-1.3	-4.8	Phase	-3.6
	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	Ampl.	0.1
	342.0	393.9	498.8	442.2	317.3	227.7	257.0	358.9	Sbd box	257.9
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.07720202438E+03		Apriori delay (usec)		2.07720170390E+03		Resid mbdelay (usec)		3.20482E-04 +/- 1.6E-04	
Sband delay (usec)	2.07720512940E+03		Apriori clock (usec)		1.3235845E+01		Resid sbdelay (usec)		3.42550E-03 +/- 1.3E-03	
Phase delay (usec)	2.07720170379E+03		Apriori clockrate (us/s)		-2.9999999E-07		Resid phdelay (usec)		-1.14053E-07 +/- 5.3E-07	
Delay rate (us/s)	7.40842995025E-01		Apriori rate (us/s)		7.40842982824E-01		Resid rate (us/s)		1.22008E-08 +/- 3.1E-09	
Total phase (deg)	299.2		Apriori accel (us/s/s)		-2.77760191830E-05		Resid phase (deg)		-3.6 +/- 16.8	

ph/seg (deg) 58.4 40.3 Search (2048X32) 0.142 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 67.3 70.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 35.0 23.8 Inc. seg. avg. 0.158 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
amp/frq (%) 38.3 41.5 Inc. frq. avg. 0.146 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
m: az 11.4 el 67.7 pa -165.2 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) -5828.086 -3447.265 simultaneous interpolator  
Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/mp..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/mp.W.138.1JFL7R

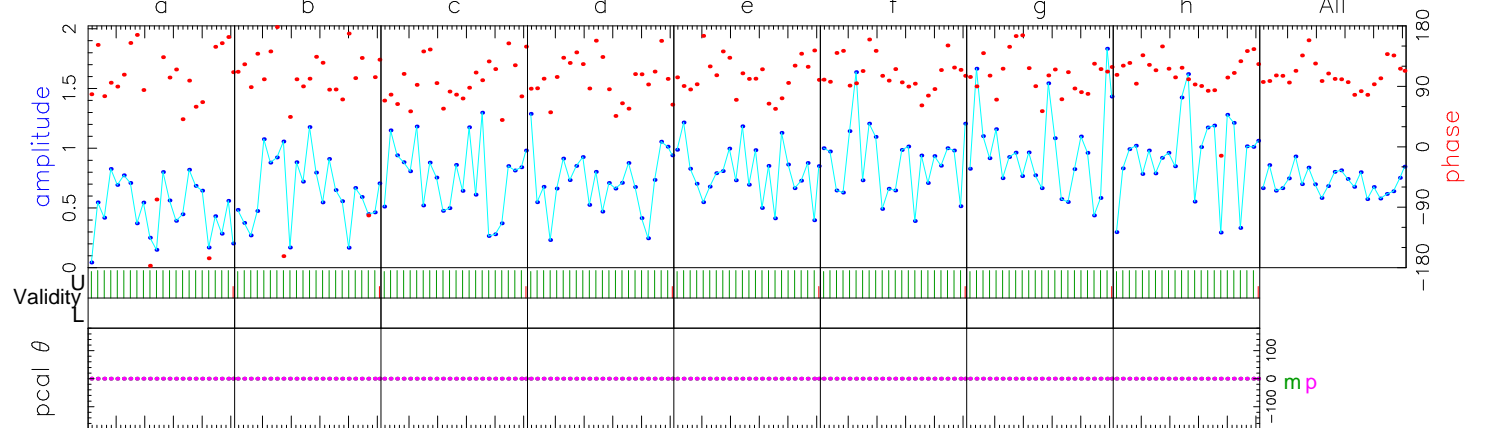
multiband delay ( $\mu$ s)



Fringe quality 8  
SNR 31.9  
Int time 297.976  
Amp 0.675  
Phase 107.4  
PFD 0.0e+00  
Delays (us)  
SBD -0.000417  
MBD -0.000296  
Fringe rate (Hz) 0.000606  
Ion TEC 0.000  
Ref freq (MHz) 87940.0000  
AP (sec) 0.512  
Exp. c202c  
Exper # 16383  
Yr:day 2020:286  
Start 115501.54  
Stop 120000.03  
FRT 115730.00  
Corr/FF/build  
2021:039:063420  
2021:039:064344  
2020:247:085004  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	111.8	118.6	94.4	105.1	104.6	108.6	107.1	111.7	Phase	107.4
	0.4	0.5	0.7	0.6	0.7	0.8	0.9	0.9	Ampl.	0.7
	256.1	256.6	256.5	256.9	256.9	257.1	257.0	257.6	Sbd box	256.9
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.07720140757E+03		Apriori delay (usec)		2.07720170390E+03		Resid mbdelay (usec)		-2.96330E-04	+/- 3.4E-05
Sband delay (usec)	2.07720128665E+03		Apriori clock (usec)		1.3235845E+01		Resid sbdelay (usec)		-4.17250E-04	+/- 2.7E-04
Phase delay (usec)	2.07720170729E+03		Apriori clockrate (us/s)		-2.9999999E-07		Resid phdelay (usec)		3.39130E-06	+/- 1.1E-07
Delay rate (us/s)	7.40842989720E-01		Apriori rate (us/s)		7.40842982824E-01		Resid rate (us/s)		6.89543E-09	+/- 6.6E-10
Total phase (deg)	50.2		Apriori accel (us/s/s)		-2.77760191830E-05		Resid phase (deg)		107.4	+/- 3.6

ph/seg (deg) 19.9 8.6 Search (2048X32) 0.653 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 15.4 15.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 7.6 5.1 Inc. seg. avg. 0.708 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
amp/frq (%) 23.5 8.9 Inc. frq. avg. 0.676 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
m: az 11.4 el 67.7 pa -165.2 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) -5828.086 -3447.265 simultaneous interpolator  
Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/mp..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/mp.W.88.1JFL7R

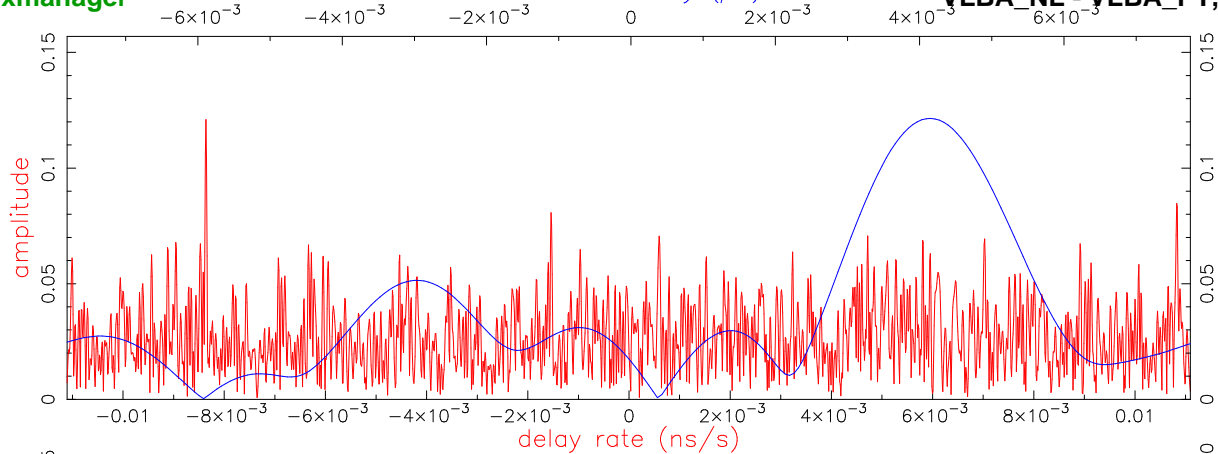
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1JFL7R, No0089, np

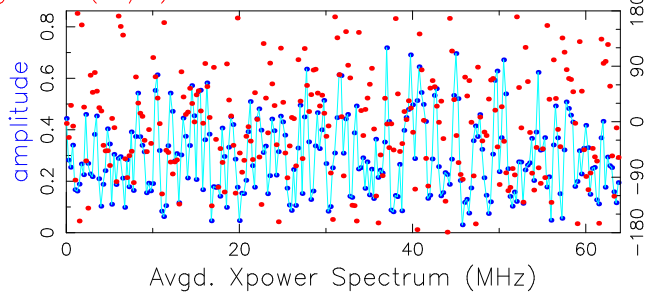
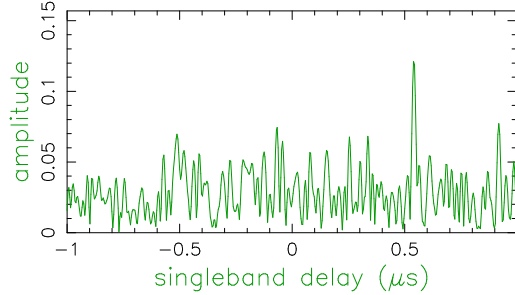
VLBA\_NL - VLBA\_PT, fgroup W, pol RR

multiband delay ( $\mu$ s)



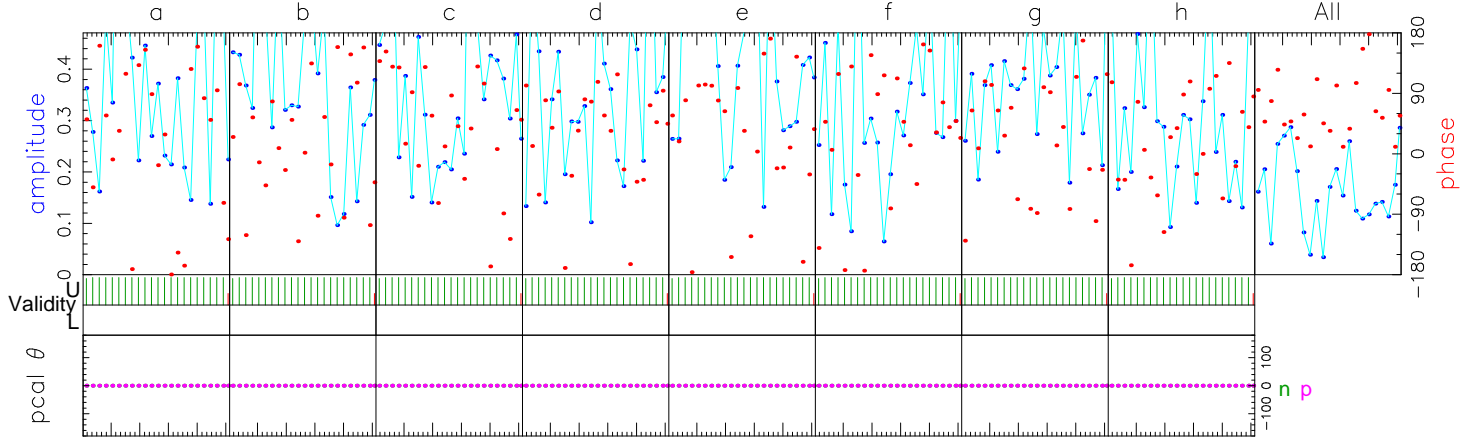
Fringe quality 0

SNR 5.8  
 Int time 297.968  
 Amp 0.157  
 Phase 63.7  
 PFD 8.2e-01  
 Delays (us)  
 SBD 0.540635  
 MBD 0.004245  
 Fringe rate (Hz)  
 -0.736537  
 Ion TEC 0.000  
 Ref freq (MHz)  
 87940.0000  
 AP (sec) 0.512



Exp. c202c  
 Exper # 16383  
 Yr:day 2020:286  
 Start 115501.54  
 Stop 120000.03  
 FRT 115730.00  
 Corr/FF/build  
 2021:039:063420  
 2021:039:064348  
 2020:247:085004  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:p	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		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.14868098142E+03		Apriori delay (usec)		-2.14921647677E+03		Resid mbdelay (usec)		4.24535E-03	+/- 1.9E-04
Sband delay (usec)	-2.14867584152E+03		Apriori clock (usec)		9.3384743E-02		Resid sbdelay (usec)		5.40635E-01	+/- 1.5E-03
Phase delay (usec)	-2.14921647476E+03		Apriori clockrate (us/s)		1.0000003E-07		Resid phdelay (usec)		2.01185E-06	+/- 6.2E-07
Delay rate (us/s)	-9.48726129278E-02		Apriori rate (us/s)		-9.48642374798E-02		Resid rate (us/s)		-8.37545E-06	+/- 3.6E-09
Total phase (deg)			Apriori accel (us/s/s)		1.90981416193E-05		Resid phase (deg)		63.7	+/- 19.8

ph/seg (deg) 45.3 47.4 Search (2048X32) 0.119 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 65.7 82.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 29.2 28.0 Inc. seg. avg. 0.152 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 21.7 48.8 Inc. frq. avg. 0.152 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 n: az 290.1 el 47.4 pa 69.6 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) 768.308 2045.585 simultaneous interpolator  
 Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/np..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/np.W.111.1JFL7R

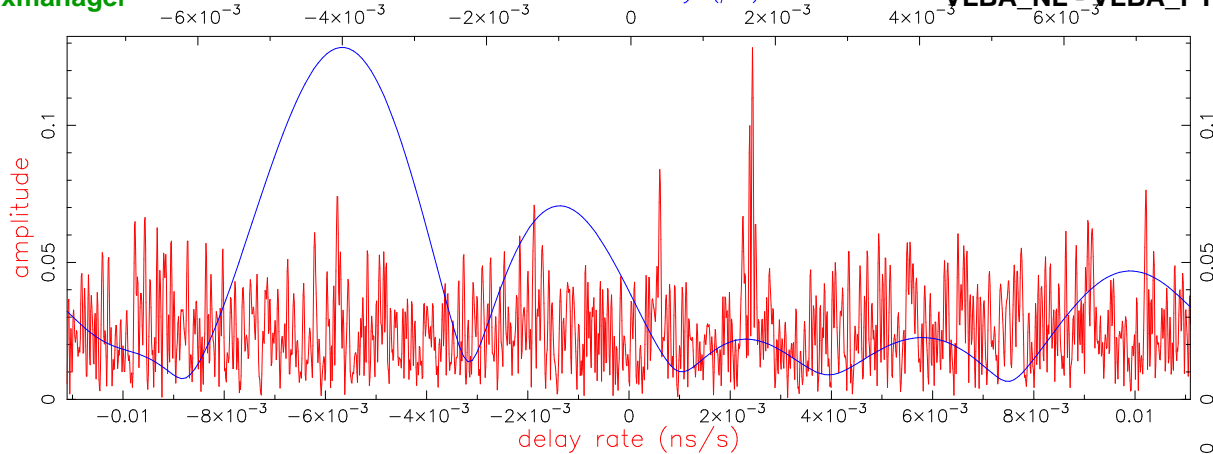
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1JFL7R, No0089, np

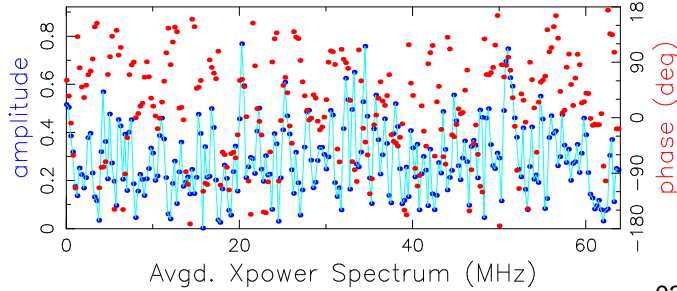
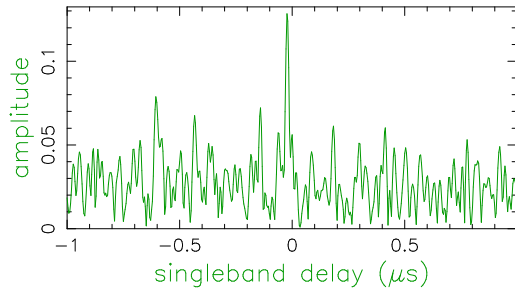
VLBA\_NL - VLBA\_PT, fgroup W, pol LR

multiband delay ( $\mu$ s)



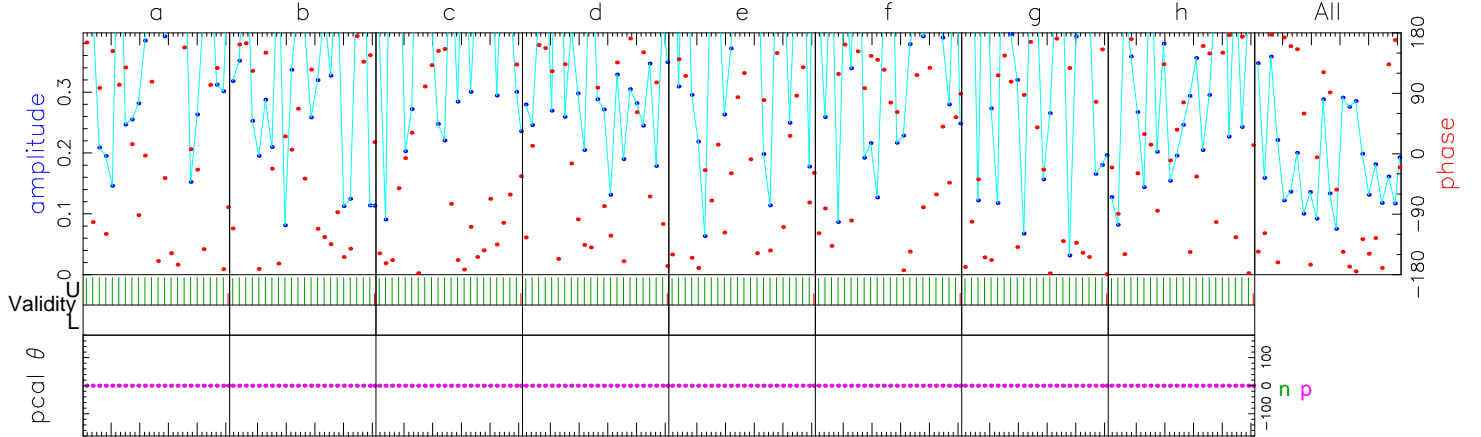
Fringe quality 0

SNR 6.1  
 Int time 297.968  
 Amp 0.132  
 Phase -171.9  
 PFD 2.1e-01  
 Delays (us)  
 SBD -0.022136  
 MBD -0.003959  
 Fringe rate (Hz)  
 0.214592  
 Ion TEC 0.000  
 Ref freq (MHz)  
 87940.0000  
 AP (sec) 0.512



Exp. c202c  
 Exper # 16383  
 Yr:day 2020:286  
 Start 115501.54  
 Stop 120000.03  
 FRT 115730.00  
 Corr/FF/build  
 2021:039:063420  
 2021:039:064351  
 2020:247:085004  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:p	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		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.14923606070E+03	-2.14923861277E+03	-2.14921648220E+03	-2.14921648220E+03	-2.14921648220E+03	-2.14921648220E+03	-2.14921648220E+03	-2.14921648220E+03		
Sband delay (usec)	-2.14923861277E+03	-2.14923861277E+03	-2.14921648220E+03	-2.14921648220E+03	-2.14921648220E+03	-2.14921648220E+03	-2.14921648220E+03	-2.14921648220E+03		
Phase delay (usec)	-2.14921648220E+03	-2.14921648220E+03	-2.14921648220E+03	-2.14921648220E+03	-2.14921648220E+03	-2.14921648220E+03	-2.14921648220E+03	-2.14921648220E+03		
Delay rate (us/s)	-9.48617972710E-02	-9.48617972710E-02	-9.48617972710E-02	-9.48617972710E-02	-9.48617972710E-02	-9.48617972710E-02	-9.48617972710E-02	-9.48617972710E-02		
Total phase (deg)			-160.1							
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 $\theta$										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
Chan ids										
Tracks										
Chan ids										
Tracks										
RMS	65.6	44.8								
Theor.										
Amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
0.132 +/- 0.022										
0.128										
0.000										
0.147										
0.127										
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)										
Chan ids										
Tracks										
Chan ids										
Tracks										
n: az 290.1 el 47.4 pa 69.6										
p: az 295.1 el 56.7 pa 88.4										
u, v (fr/asec) 768.308 2045.585										
Control file: cf_1234_88GHz_gmva										
Input file: /Exps/c202c/v1/1234/No0089/np..1JFL7R										
Output file: /Exps/c202c/v1/1234/No0089/np.W.128.1JFL7R										

simultaneous interpolator





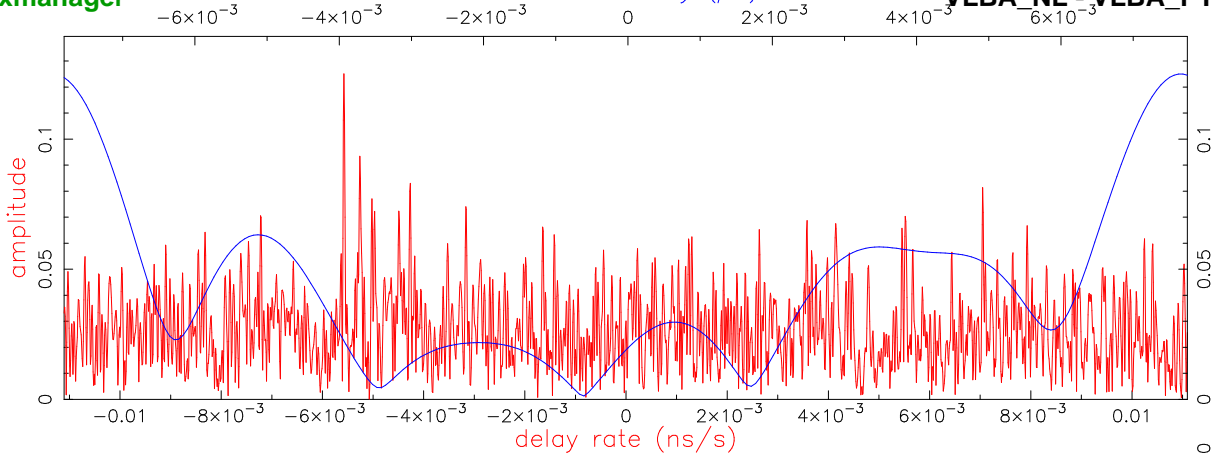
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1JFL7R, No0089, np

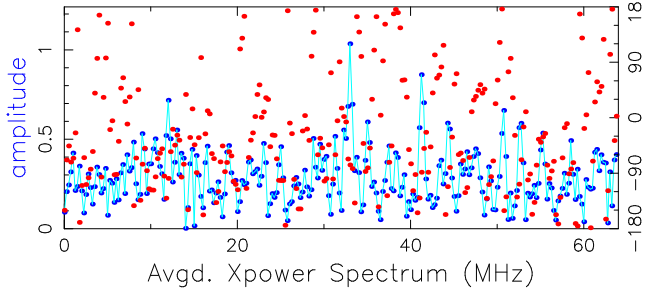
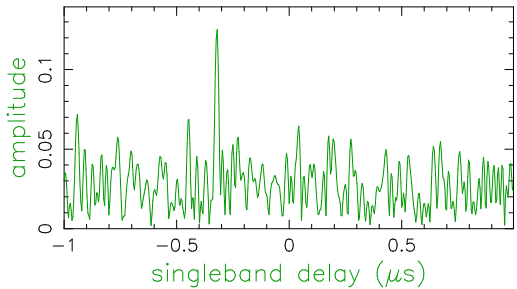
VLBA\_NL - VLBA\_PT, fgroup W, pol LL

multiband delay ( $\mu$ s)



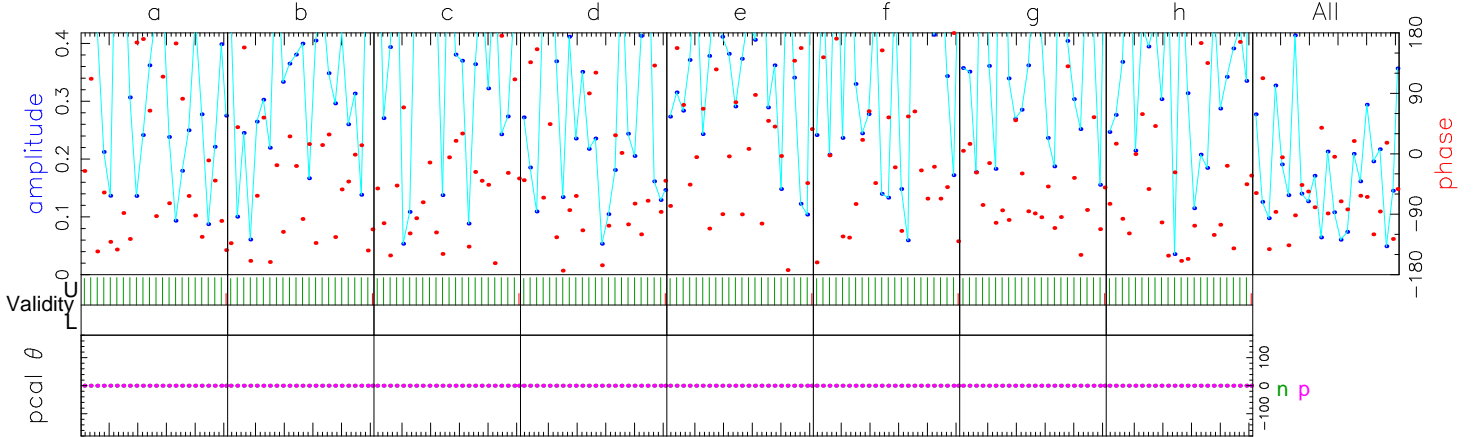
Fringe quality 0

SNR 5.9  
 Int time 297.968  
 Amp 0.139  
 Phase -71.8  
 PFD 5.6e-01  
 Delays (us)  
 SBD -0.321068  
 MBD -0.007966  
 Fringe rate (Hz)  
 -0.491026  
 Ion TEC 0.000  
 Ref freq (MHz)  
 87940.0000  
 AP (sec) 0.512



Exp. c202c  
 Exper # 16383  
 Yr:day 2020:286  
 Start 115501.54  
 Stop 120000.03  
 FRT 115730.00  
 Corr/FF/build  
 2021:039:063420  
 2021:039:064345  
 2020:247:085004  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-111.0	-60.2	-57.5	-70.5	7.5	-57.2	-68.7	-104.9	Phase	-71.8
	0.2	0.1	0.2	0.1	0.1	0.3	0.2	0.2	Ampl.	0.1
	212.2	276.4	175.5	478.6	65.9	285.6	175.3	202.6	Sbd box	174.8
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.14953694324E+03		Apriori delay (usec)		-2.14921647677E+03		Resid mbdelay (usec)		-7.96647E-03	+/- 1.8E-04
Sband delay (usec)	-2.14953754427E+03		Apriori clock (usec)		9.3384743E-02		Resid sbdelay (usec)		-3.21068E-01	+/- 1.5E-03
Phase delay (usec)	-2.14921647904E+03		Apriori clockrate (us/s)		1.0000003E-07		Resid phdelay (usec)		-2.26789E-06	+/- 6.1E-07
Delay rate (us/s)	-9.48698211275E-02		Apriori rate (us/s)		-9.48642374798E-02		Resid rate (us/s)		-5.58365E-06	+/- 3.5E-09
Total phase (deg)	-60.0		Apriori accel (us/s/s)		1.90981416193E-05		Resid phase (deg)		-71.8	+/- 19.4

ph/seg (deg) 61.7 46.4 Search (2048X32) 0.122 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 84.4 81.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 39.8 27.4 Inc. seg. avg. 0.147 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 47.5 47.8 Inc. frq. avg. 0.138 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 n: az 290.1 el 47.4 pa 69.6 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) 768.308 2045.585 simultaneous interpolator  
 Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/np..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/np.W.96.1JFL7R

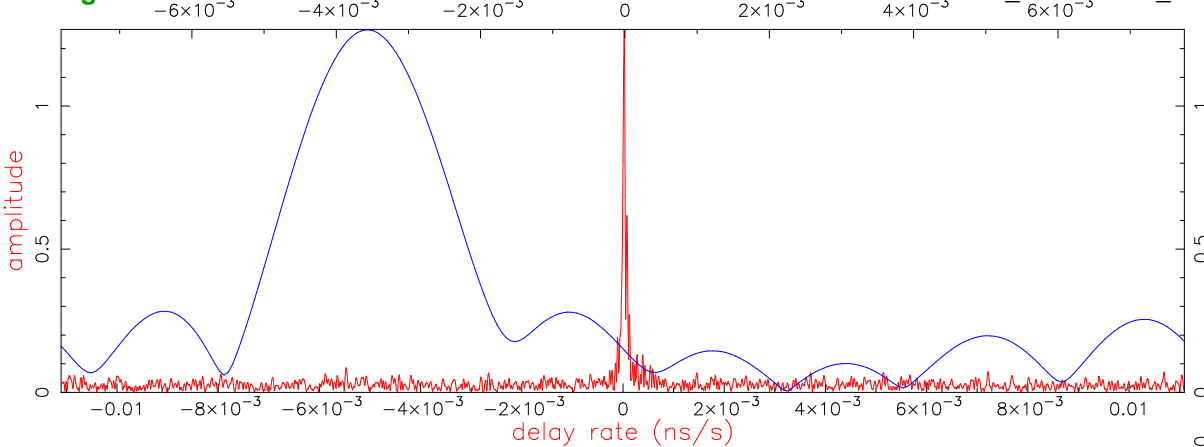
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1JFL7R, No0089, op

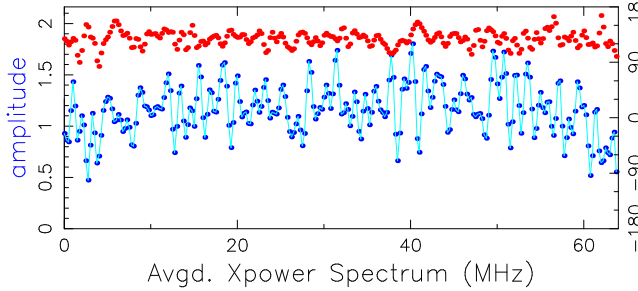
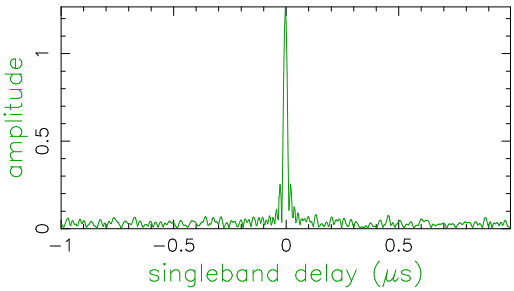
VLBA\_OV - VLBA\_PT, fgroup W, pol RR

multiband delay ( $\mu$ s)



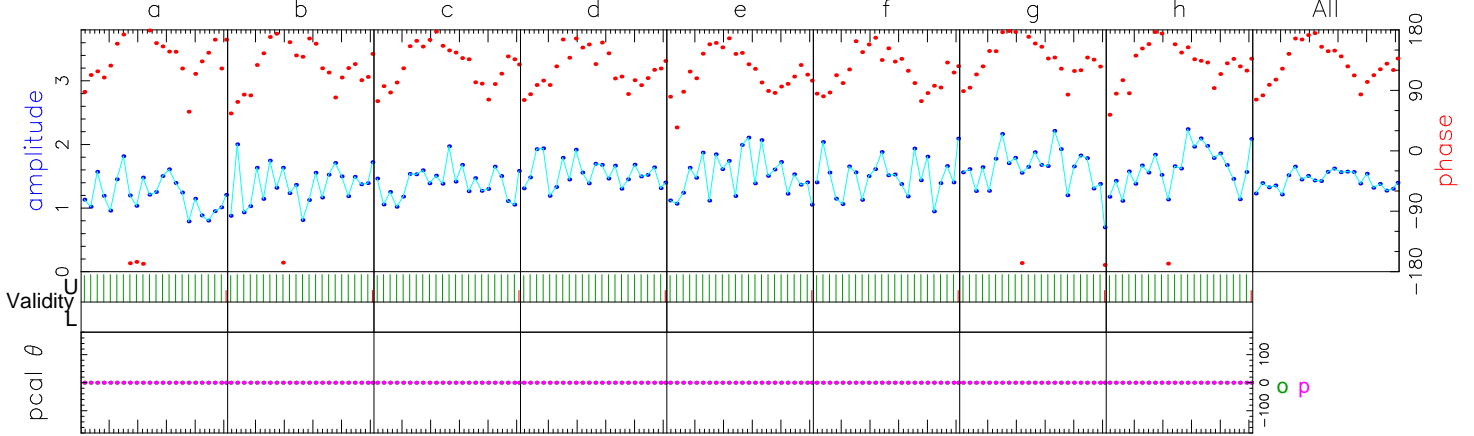
Fringe quality 7

SNR 59.8  
 Int time 297.976  
 Amp 1.267  
 Phase 129.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.003460  
 MBD -0.003559  
 Fringe rate (Hz)  
 0.001590  
 Ion TEC 0.000  
 Ref freq (MHz)  
 87940.0000  
 AP (sec) 0.512



Exp. c202c  
 Yr:day 16383  
 Start 2020:286  
 Stop 2021:039:063420  
 FRT 2021:039:064348  
 2020:247:085004  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0		
o	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	0:0
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	0:0
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)		1.61682834856E+03			1.61683190803E+03				Resid mbdelay (usec)	-3.55947E-03 +/- 1.8E-05
Sband delay (usec)		1.61682844753E+03			2.1234074E+01				Resid sbdelay (usec)	-3.46050E-03 +/- 1.4E-04
Phase delay (usec)		1.61683191211E+03			-5.0000000E-07				Resid phdelay (usec)	4.08328E-06 +/- 6.0E-08
Delay rate (us/s)		1.53611902843E-01			1.53611884761E-01				Resid rate (us/s)	1.80822E-08 +/- 3.5E-10
Total phase (deg)			126.5		-5.38593396882E-06				Resid phase (deg)	129.3 +/- 1.9

ph/seg (deg) 28.7 4.6 Search (2048X32) 1.235 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 16.6 8.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 10.8 2.7 Inc. seg. avg. 1.432 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 11.0 4.7 Inc. frq. avg. 1.281 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 o: az 290.0 el 65.5 pa 89.3 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) -1209.137 -93.542 simultaneous interpolator  
 Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/op..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/op.W.108.1JFL7R

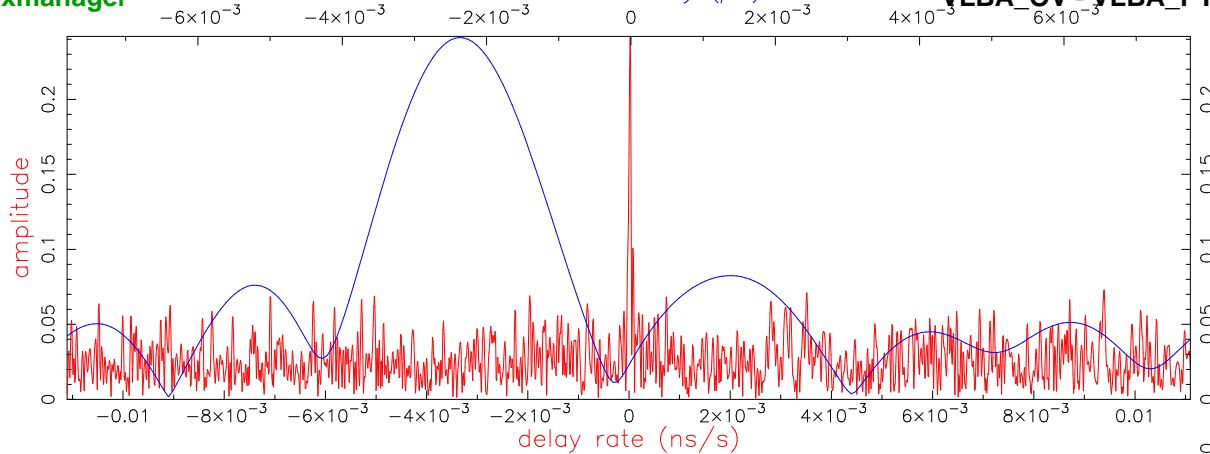
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

3C84.1JFL7R, No0089, op

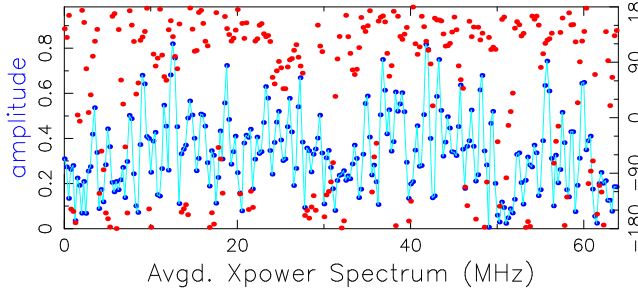
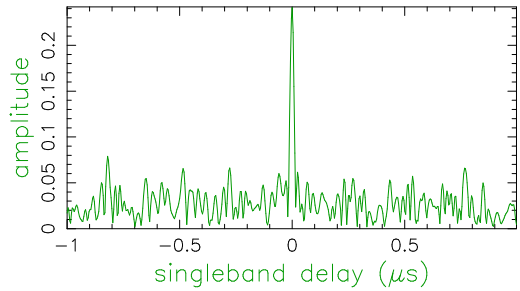
VLBA\_OV - VLBA\_PT, fgroup W, pol LR

multiband delay ( $\mu$ s)



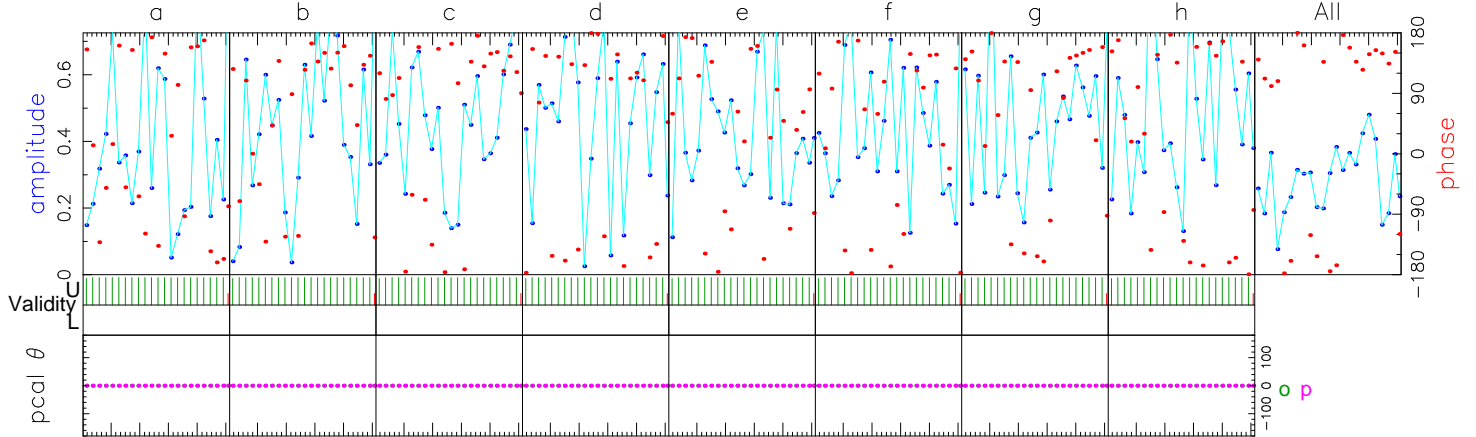
Fringe quality 9

SNR 11.4  
 Int time 297.976  
 Amp 0.242  
 Phase 159.5  
 PFD 1.6e-21  
 Delays (us)  
 SBD -0.000776  
 MBD -0.002387  
 Fringe rate (Hz)  
 0.001444  
 Ion TEC 0.000  
 Ref freq (MHz)  
 87940.0000  
 AP (sec) 0.512



Exp. c202c  
 Exper # 16383  
 Yr:day 2020:286  
 Start 115501.54  
 Stop 120000.03  
 FRT 115730.00  
 Corr/FF/build  
 2021:039:063420  
 2021:039:064350  
 2020:247:085004  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

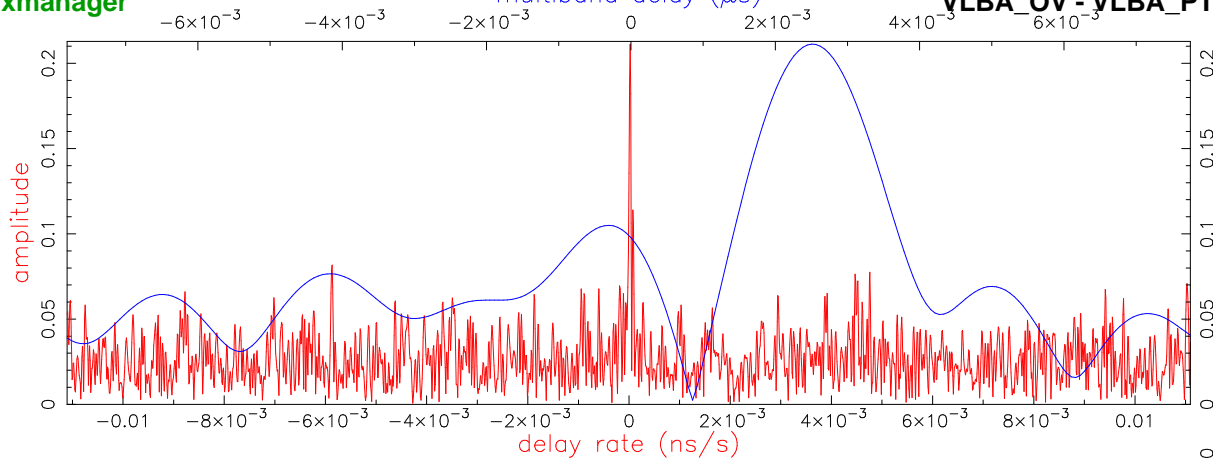


	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-149.1	142.5	141.5	166.1	144.9	158.8	150.9	175.4	Phase	159.5
	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.3	Ampl.	0.2
	506.8	257.0	256.5	256.3	85.8	257.5	257.7	256.8	Sbd box	256.8
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.61682952108E+03		Apriori delay (usec)		1.61683190803E+03		Resid mbdelay (usec)		-2.38696E-03	+/- 9.5E-05
Sband delay (usec)	1.61683113153E+03		Apriori clock (usec)		2.1234074E+01		Resid sbdelay (usec)		-7.76500E-04	+/- 7.5E-04
Phase delay (usec)	1.61683191307E+03		Apriori clockrate (us/s)		-5.0000000E-07		Resid phdelay (usec)		5.03948E-06	+/- 3.2E-07
Delay rate (us/s)	1.53611901178E-01		Apriori rate (us/s)		1.53611884761E-01		Resid rate (us/s)		1.64165E-08	+/- 1.8E-09
Total phase (deg)	156.8		Apriori accel (us/s/s)		-5.38593396882E-06		Resid phase (deg)		159.5	+/- 10.0

ph/seg (deg) 35.4 24.1 Amplitude 0.242 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 44.7 42.0 Search (2048X32) 0.235 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 25.3 14.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 27.6 24.8 Inc. seg. avg. 0.264 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 o: az 290.0 el 65.5 pa 89.3 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) -1209.137 -93.542 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 simultaneous interpolator

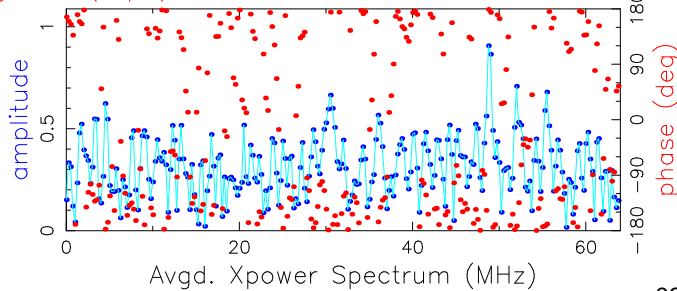
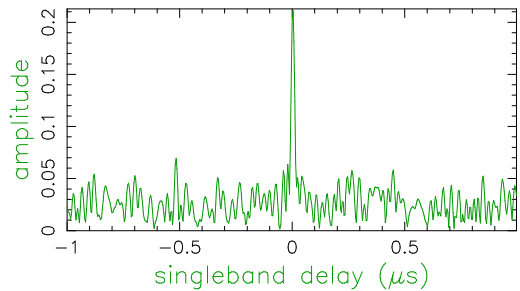
Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/op..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/op.W.124.1JFL7R

multiband delay ( $\mu$ s)



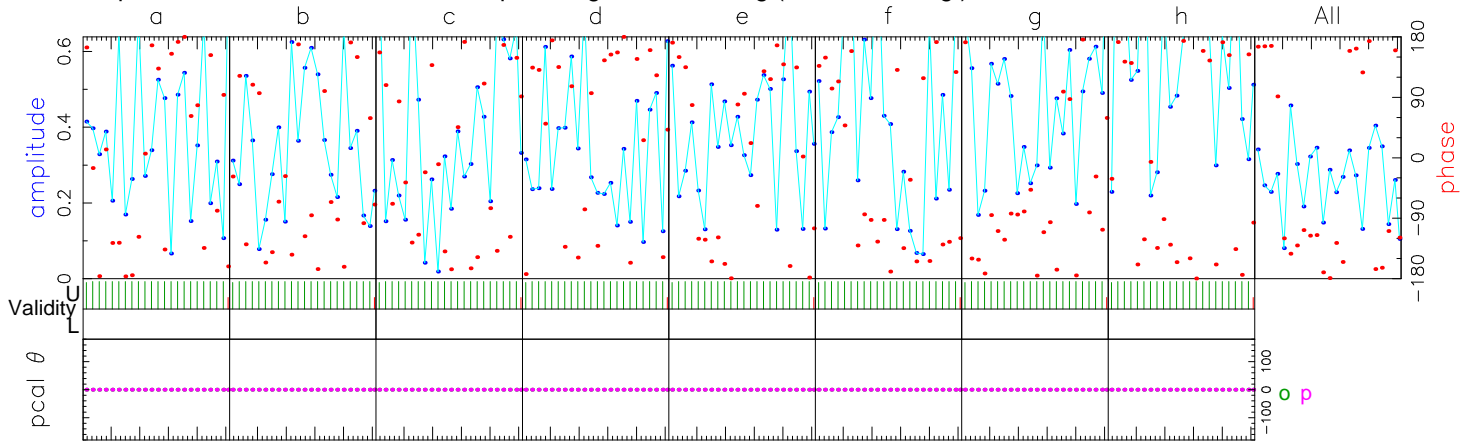
Fringe quality 9

SNR 10.0  
Int time 297.976  
Amp 0.213  
Phase -165.9  
PFD 4.0e-15  
Delays (us)  
SBD 0.002794  
MBD 0.002487  
Fringe rate (Hz) 0.001598  
Ion TEC 0.000  
Ref freq (MHz) 87940.0000  
AP (sec) 0.512



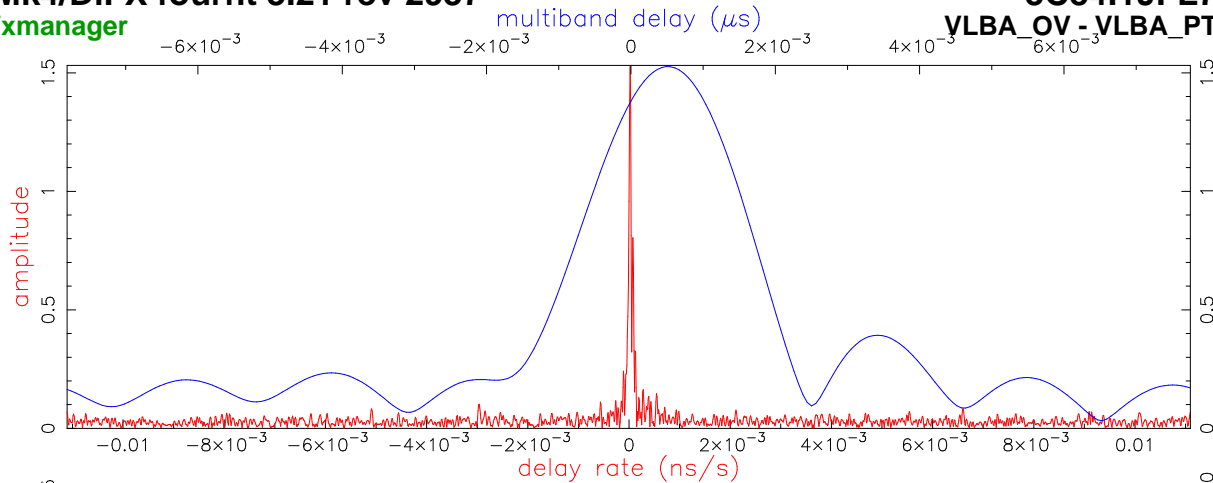
Exp. c202c  
Exper # 16383  
Yr:day 2020:286  
Start 115501.54  
Stop 120000.03  
FRT 115730.00  
Corr/FF/build  
2021:039:063420  
2021:039:064353  
2020:247:085004  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



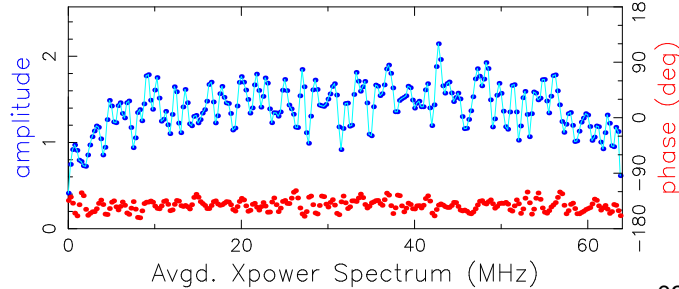
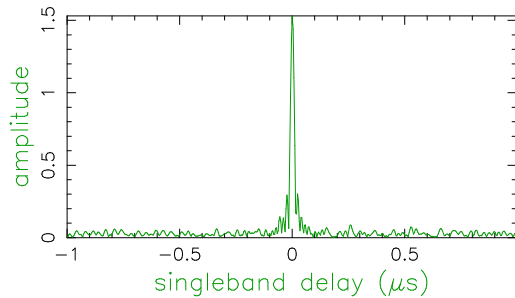
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-162.1	-143.6	-166.7	152.4	164.5	-162.2	-123.2	-168.5	Phase	-165.9
	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	Ampl.	0.2
	256.9	351.8	257.0	278.0	258.2	257.7	257.5	257.3	Sbd box	257.7
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.61683439490E+03		Apriori delay (usec)		1.61683190803E+03		Resid mbdelay (usec)		2.48687E-03	+/- 1.1E-04
Sband delay (usec)	1.61683470203E+03		Apriori clock (usec)		2.1234074E+01		Resid sbdelay (usec)		2.79400E-03	+/- 8.6E-04
Phase delay (usec)	1.61683190279E+03		Apriori clockrate (us/s)		-5.0000000E-07		Resid phdelay (usec)		-5.24032E-06	+/- 3.6E-07
Delay rate (us/s)	1.53611902938E-01		Apriori rate (us/s)		1.53611884761E-01		Resid rate (us/s)		1.81766E-08	+/- 2.1E-09
Total phase (deg)	191.3		Apriori accel (us/s/s)		-5.38593396882E-06		Resid phase (deg)		-165.9	+/- 11.4

ph/seg (deg) 42.1 27.3 Search (2048X32) 0.207 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 50.7 47.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 28.8 16.1 Inc. seg. avg. 0.241 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
amp/frq (%) 43.7 28.1 Inc. frq. avg. 0.220 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
o: az 290.0 el 65.5 pa 89.3 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) -1209.137 -93.542 simultaneous interpolator  
Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/op..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/op.W.140.1JFL7R



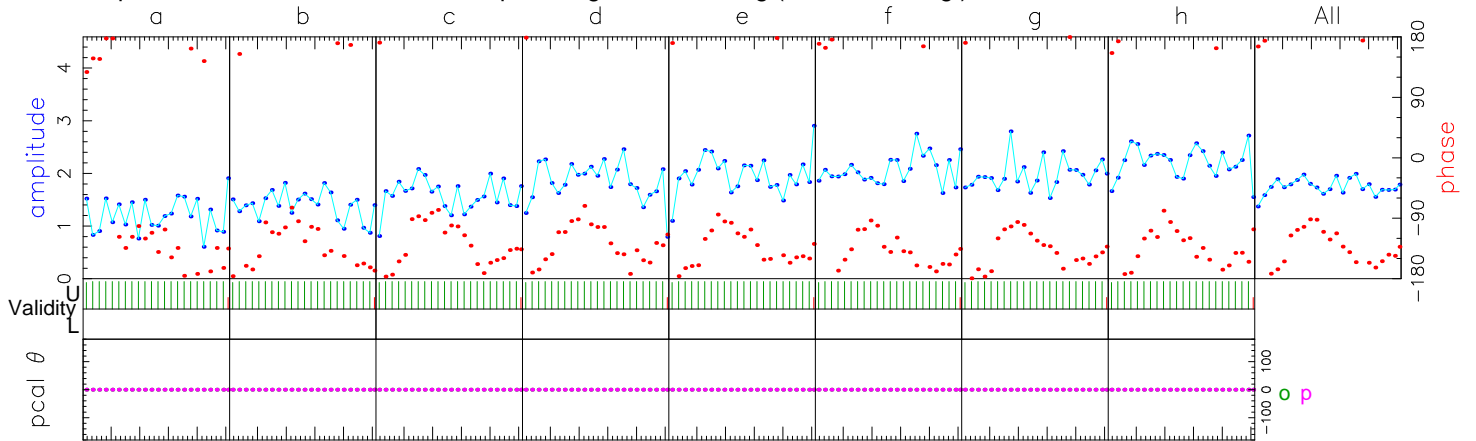
Fringe quality 6

SNR 72.3  
Int time 297.976  
Amp 1.531  
Phase -139.7  
PFD 0.0e+00  
Delays (us)  
SBD 0.000713  
MBD 0.000531  
Fringe rate (Hz)  
0.001555  
Ion TEC 0.000  
Ref freq (MHz)  
87940.0000  
AP (sec) 0.512



Exp. c202c  
Exper # 16383  
Yr:day 2020:286  
Start 115501.54  
Stop 120000.03  
FRT 115730.00  
Corr/FF/build  
2021:039:063420  
2021:039:064345  
2020:247:085004  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

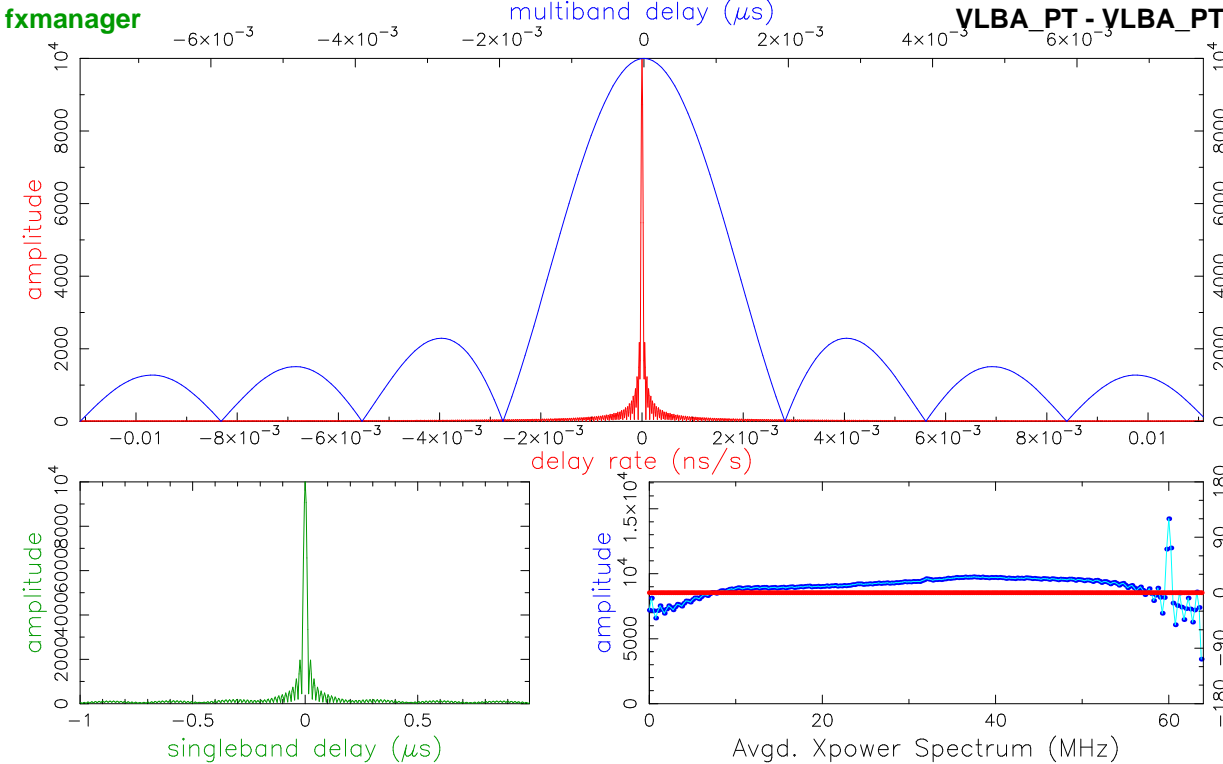
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-155.4	-137.6	-129.7	-129.3	-136.5	-148.5	-141.9	-141.6	Phase	-139.7
	1.0	1.2	1.3	1.6	1.7	1.8	1.8	1.9	Ampl.	1.5
	256.9	257.1	257.2	257.2	257.1	257.2	257.0	257.5	Sbd box	257.2
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.61683243890E+03		Apriori delay (usec)		1.61683190803E+03		Resid mbdelay (usec)		5.30871E-04	+/- 1.5E-05
Sband delay (usec)	1.61683262078E+03		Apriori clock (usec)		2.1234074E+01		Resid sbdelay (usec)		7.12750E-04	+/- 1.2E-04
Phase delay (usec)	1.61683190362E+03		Apriori clockrate (us/s)		-5.0000000E-07		Resid phdelay (usec)		-4.41271E-06	+/- 5.0E-08
Delay rate (us/s)	1.53611902443E-01		Apriori rate (us/s)		1.53611884761E-01		Resid rate (us/s)		1.76817E-08	+/- 2.9E-10
Total phase (deg)	217.5		Apriori accel (us/s/s)		-5.38593396882E-06		Resid phase (deg)		-139.7	+/- 1.6

ph/seg (deg) 29.9 3.8 RMS Theor. Amplitude 1.531 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
amp/seg (%) 17.1 6.6 Search (2048X32) 1.499 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
ph/frq (deg) 9.6 2.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
amp/frq (%) 21.2 3.9 Inc. seg. avg. 1.745 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
o: az 290.0 el 65.5 pa 89.3 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) -1209.137 -93.542 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/op..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/op.W.92.1JFL7R simultaneous interpolator



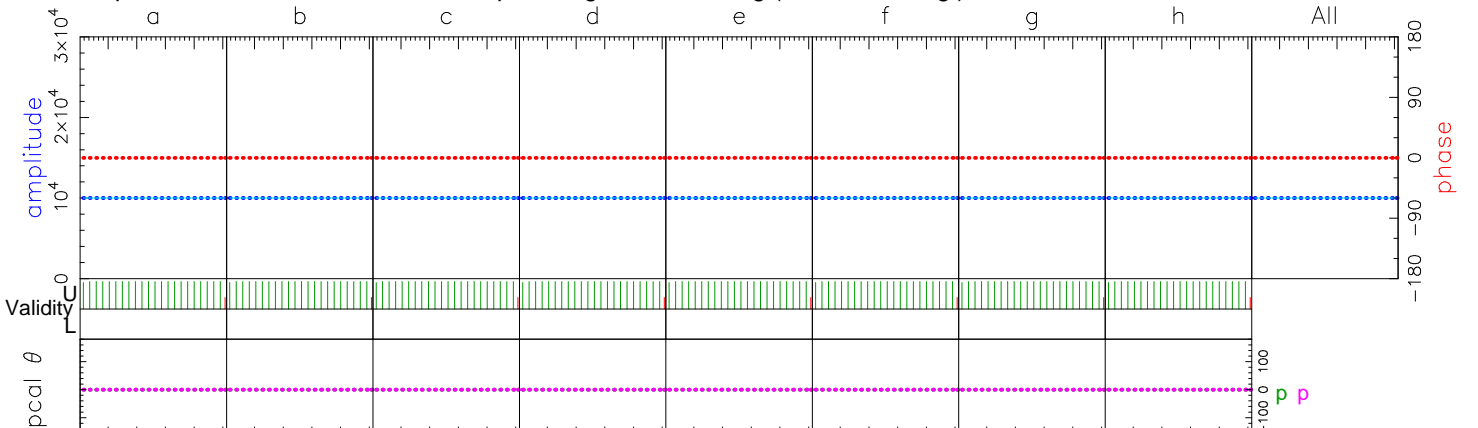


Fringe quality 9

SNR 472050.2  
Int time 297.976  
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) 87940.0000  
AP (sec) 0.512

Exp. c202c  
Exper # 16383  
Yr:day 2020:286  
Start 115501.54  
Stop 120000.03  
FRT 115730.00  
Corr/FF/build  
2021:039:063420  
2021:039:064348  
2020:247:085004  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

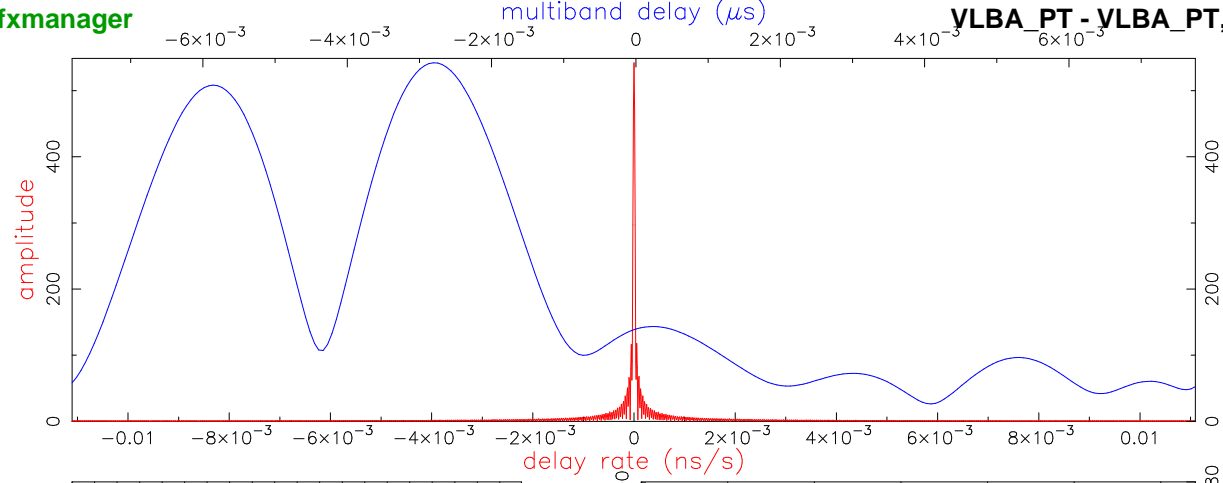
Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



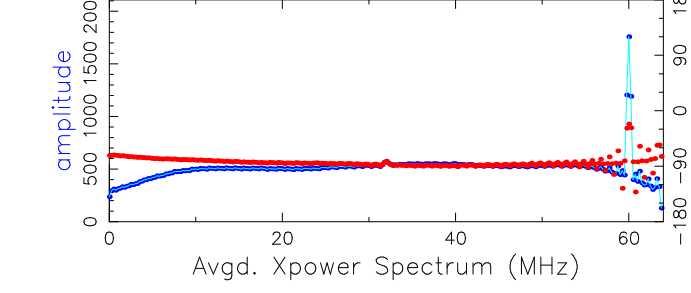
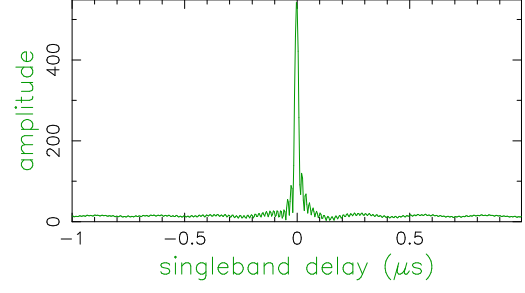
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	88324.00	All
Freq (MHz)	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	88324.00	All
Phase	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ampl.	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0
Sbd box	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0
APs used	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0
PC freqs	p 1000	p 1000	p 1000	p 1000	p 1000	p 1000	p 1000	p 1000	p 1000	p 1000
PC phase	p:p 0:0	p:p 0:0	p:p 0:0	p:p 0:0	p:p 0:0	p:p 0:0	p:p 0:0	p:p 0:0	p:p 0:0	p:p 0:0
Mani PC	p:p 0:0	p:p 0:0	p:p 0:0	p:p 0:0	p:p 0:0	p:p 0:0	p:p 0:0	p:p 0:0	p:p 0:0	p:p 0:0
PC amp	p 1000	p 1000	p 1000	p 1000	p 1000	p 1000	p 1000	p 1000	p 1000	p 1000
Chan ids	p W00UR	p W01UR	p W02UR	p W03UR	p W04UR	p W05UR	p W06UR	p W07UR	p W08UR	p W09UR
Tracks	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR
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	0.0000000000E+00	+/- 2.3E-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	0.0000000000E+00	+/- 1.8E-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	0.0000000000E+00	+/- 7.7E-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	0.0000000000E+00	+/- 4.4E-14
Total phase (deg)			0.0							0.0 +/- 0.0

p: az 295.1 el 56.7 pa 88.4      p: az 295.1 el 56.7 pa 88.4      u,v (fr/asec) 0.000 0.000      simultaneous interpolator

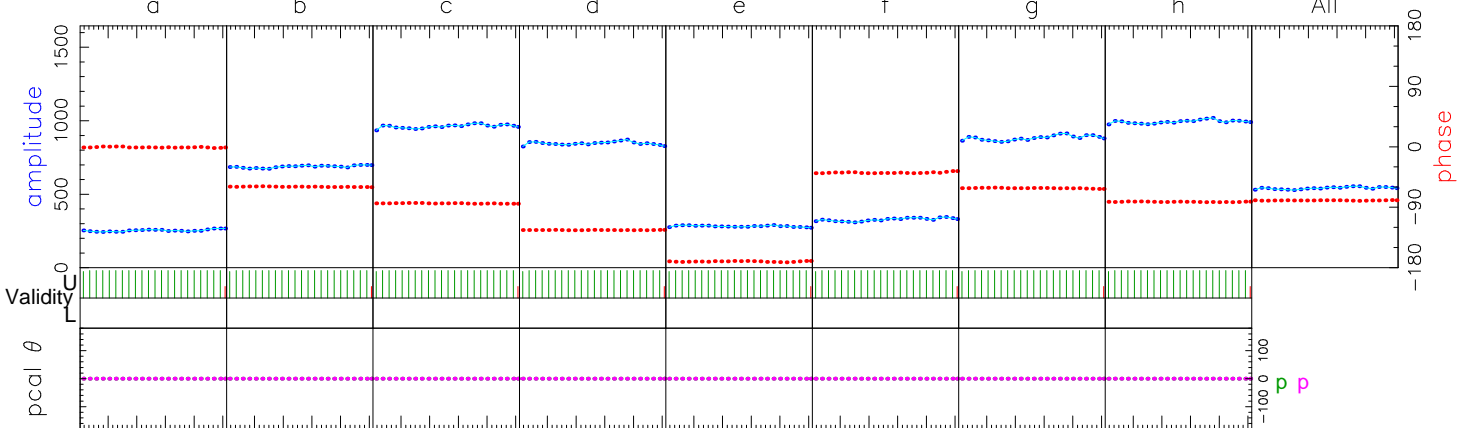
Control file: cf\_1234\_88GHz\_gmva      Input file: /Exps/c202c/v1/1234/No0089/pp..1JFL7R      Output file: /Exps/c202c/v1/1234/No0089/pp.W.112.1JFL7R



Fringe quality 5  
SNR 25901.7  
Int time 297.976  
Amp 548.707  
Phase -79.8  
PFD 0.0e+00  
Delays (us)  
SBD -0.002478  
MBD -0.002760  
Fringe rate (Hz) 0.000002  
Ion TEC 0.000  
Ref freq (MHz) 87940.0000  
AP (sec) 0.512  
Exp. c202c  
Exper # 16383  
Yr:day 2020:286  
Start 115501.54  
Stop 120000.03  
FRT 115730.00  
Corr/FF/build  
2021:039:063420  
2021:039:064351  
2020:247:085004  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

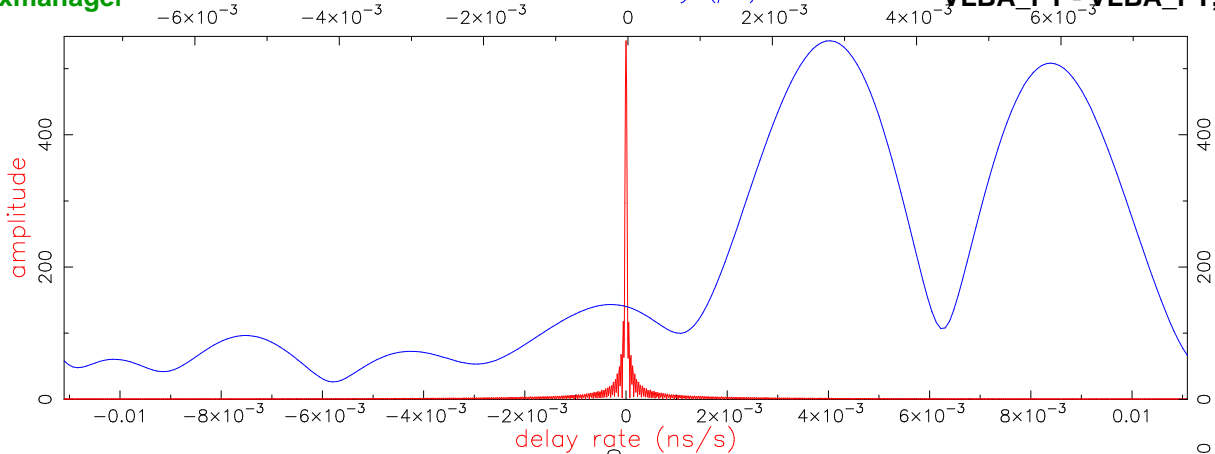


	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-0.8	-59.5	-84.2	-123.9	-170.7	-38.5	-61.6	-81.9	Phase	-79.8
	253.4	688.0	962.3	847.2	282.6	327.9	883.3	993.9	Ampl.	654.8
	255.6	255.8	256.3	255.9	255.3	256.0	256.2	256.0	Sbd box	256.4
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.76021875000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-2.76022E-03	+/- 4.2E-08
Sband delay (usec)	-2.47775000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-2.47775E-03	+/- 3.3E-07
Phase delay (usec)	-2.52159564829E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-2.52160E-06	+/- 1.4E-10
Delay rate (us/s)	1.87394716907E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		1.87395E-11	+/- 8.1E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-79.8	+/- 0.0

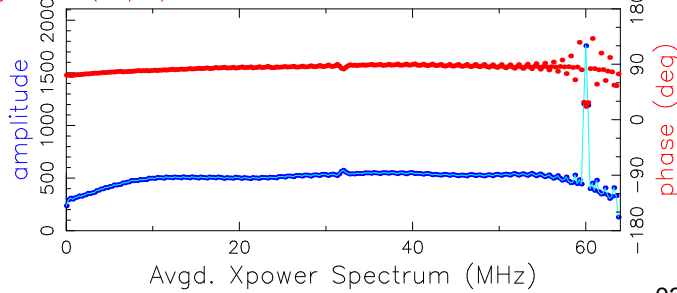
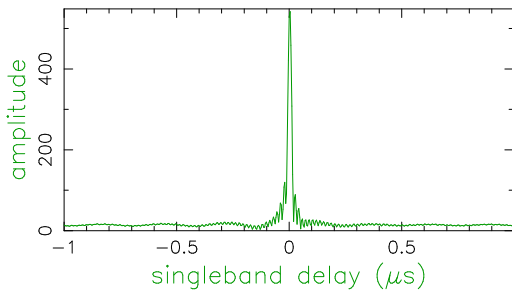
ph/seg (deg) 0.2 0.0      Search (2048X32) 537.680      Pcal mode: MANUAL, MANUAL      PC period (AP's) 5, 5  
amp/seg (%) 1.8 0.0      Interp. 0.000      Pcal rate: 0.000E+00, 0.000E+00 (us/s)      sb window (us) -1.000 1.000  
ph/frq (deg) 56.2 0.0      Inc. seg. avg. 541.942      Bits/sample: 2x2      SampCntNorm: enabled      mb window (us) -0.008 0.008  
amp/frq (%) 57.5 0.0      Inc. frq. avg. 654.821      Sample rate(MISamp/s): 128      Data rate(Mb/s): 2048      nlags: 256      t\_cohere infinite      dr window (ns/s) -0.011 0.011  
p: az 295.1 el 56.7 pa 88.4      p: az 295.1 el 56.7 pa 88.4      u,v (fr/asec) 0.000 0.000      ion window (TEC) 0.00 0.00      simultaneous interpolator

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

Fringe quality 5

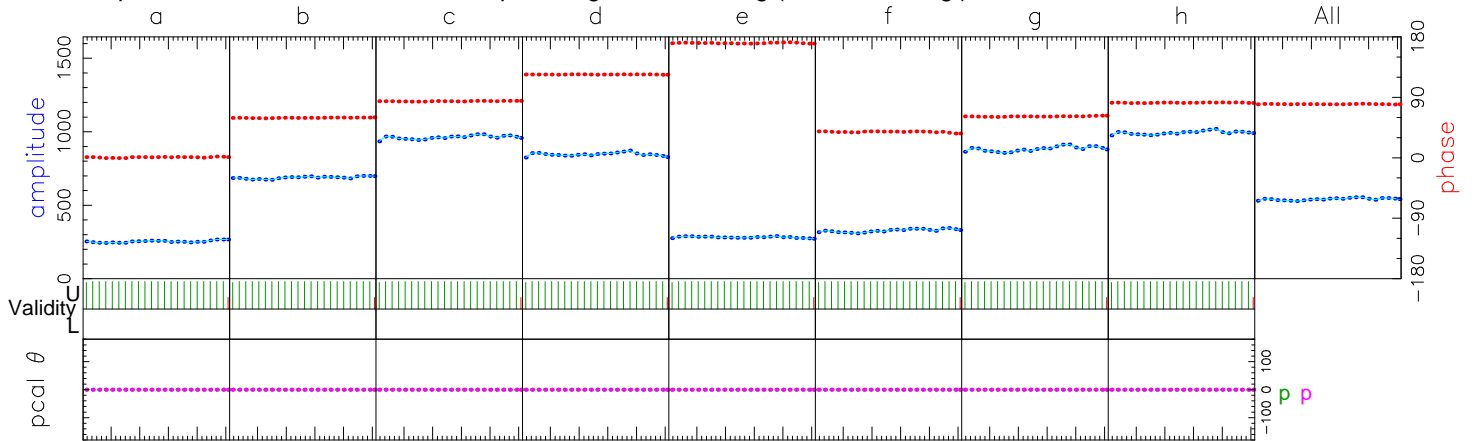


SNR 25901.7  
Int time 297.976  
Amp 548.707  
Phase 79.8  
PFD 0.0e+00  
Delays (us)  
SBD 0.002478  
MBD 0.002760  
Fringe rate (Hz)  
-0.000002  
Ion TEC 0.000  
Ref freq (MHz)  
87940.0000  
AP (sec) 0.512



Exp. c202c  
Exper # 16383  
Yr:day 2020:286  
Start 115501.54  
Stop 120000.03  
FRT 115730.00  
Corr/FF/build  
2021:039:063420  
2021:039:064354  
2020:247:085004  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	2.76021875000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	2.76022E-03	+/-	4.2E-08
Sband delay (usec)	2.47775000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	2.47775E-03	+/-	3.3E-07
Phase delay (usec)	2.52159564821E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.52160E-06	+/-	1.4E-10
Delay rate (us/s)	-1.87394716907E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-1.87395E-11	+/-	8.1E-13
Total phase (deg)	79.8	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	79.8	+/-	0.0

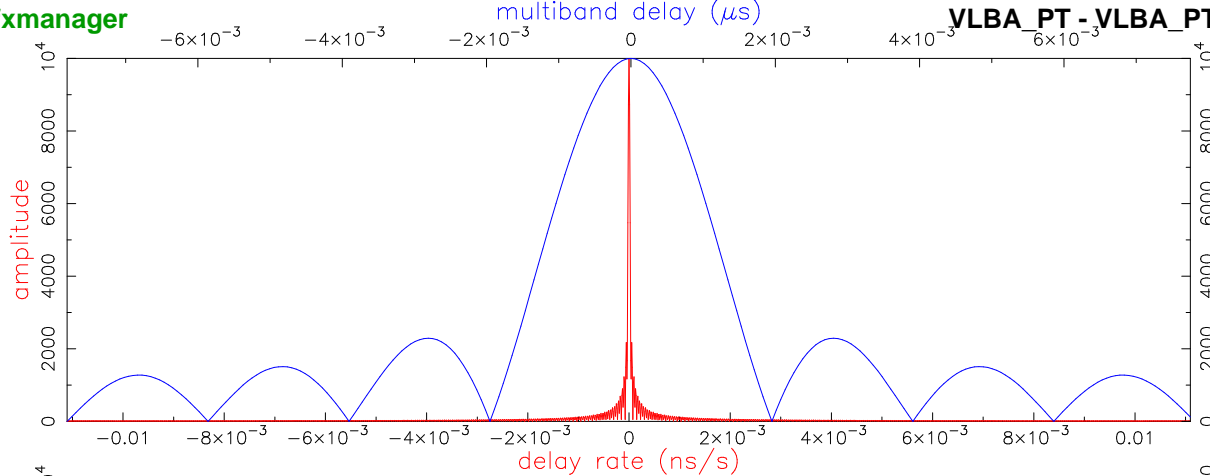
ph/seg (deg)	0.2	0.0	Amplitude	548.707 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	1.8	0.0	Search (2048X32)	537.680	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	56.2	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	57.5	0.0	Inc. seg. avg.	541.942	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011 0.011		
			Inc. frq. avg.	654.821	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

p: az 295.1 el 56.7 pa 88.4 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/pp..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/pp.W.143.1JFL7R

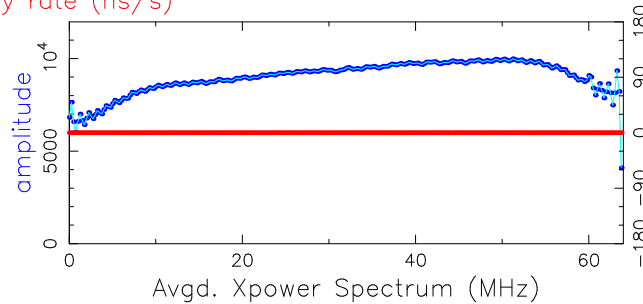
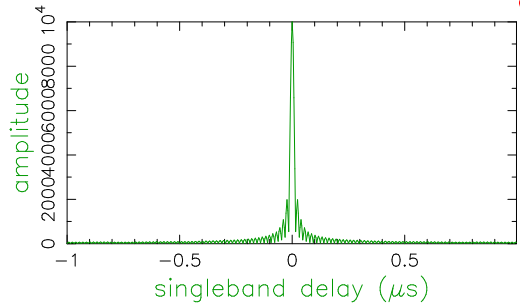
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

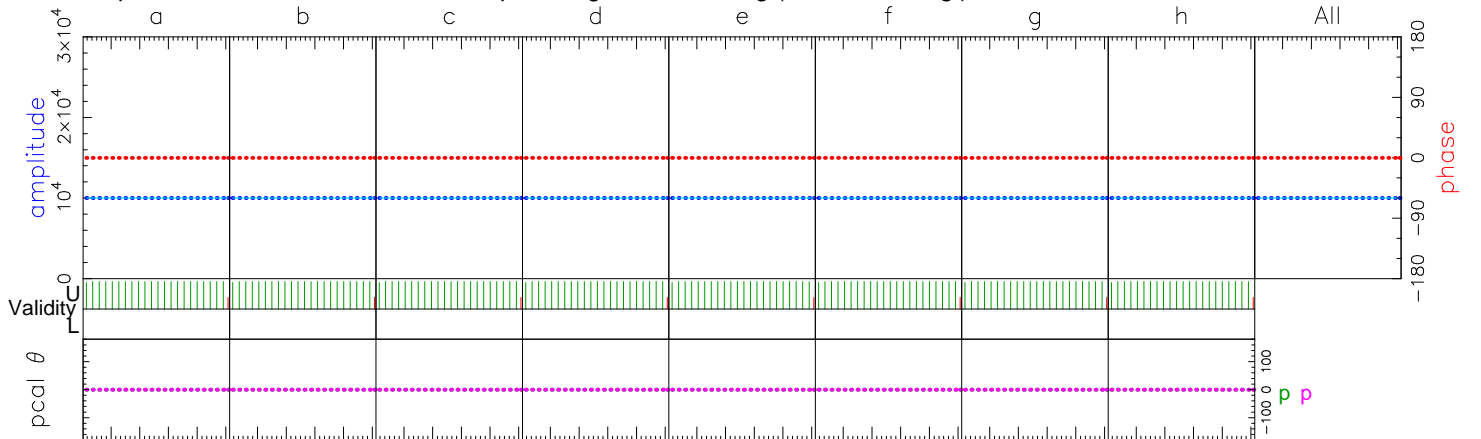
3C84.1JFL7R, No0089, pp  
VLBA\_PT - VLBA\_PT, fgroup W, pol LL



Fringe quality 9  
SNR 472050.2  
Int time 297.976  
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)  
87940.0000  
AP (sec) 0.512  
Exp. c202c  
Exper # 16383  
Yr:day 2020:286  
Start 115501.54  
Stop 120000.03  
FRT 115730.00  
Corr/FF/build  
2021:039:063420  
2021:039:064345  
2020:247:085004  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"



Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	583/0	583/0	583/0	583/0	583/0	583/0	583/0	583/0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00		
Sband delay (usec)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00		
Phase delay (usec)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00		
Delay rate (us/s)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00		
Total phase (deg)			0.0							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
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										
pcal mode										
PC period (AP's)										
Search (2048X32)										
Inc. seg. avg.										
Inc. frq. avg.										
u,v (fr/asec)										
simultaneous interpolator										

p: az 295.1 el 56.7 pa 88.4 p: az 295.1 el 56.7 pa 88.4 u,v (fr/asec) 0.000 0.000  
Control file: cf\_1234\_88GHz\_gmva Input file: /Exps/c202c/v1/1234/No0089/pp..1JFL7R Output file: /Exps/c202c/v1/1234/No0089/pp.W.95.1JFL7R