

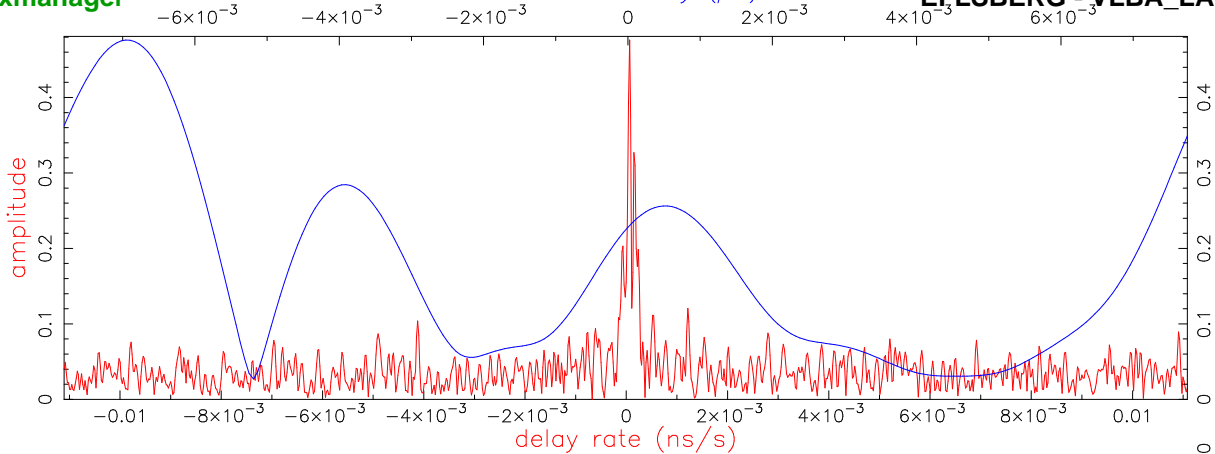
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, BI

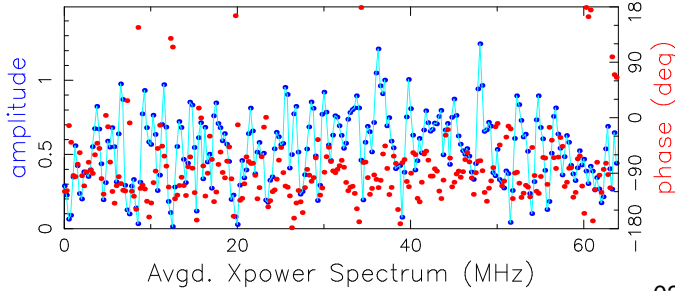
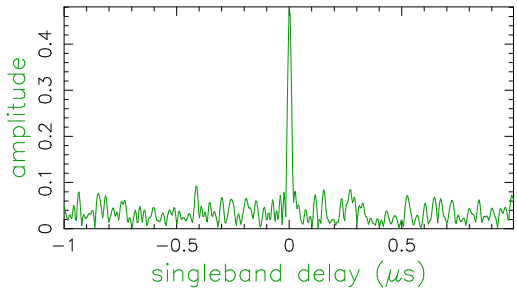
EFLSBERG - VLBA_LA, fgroup W, pol LL

multiband delay (μ s)



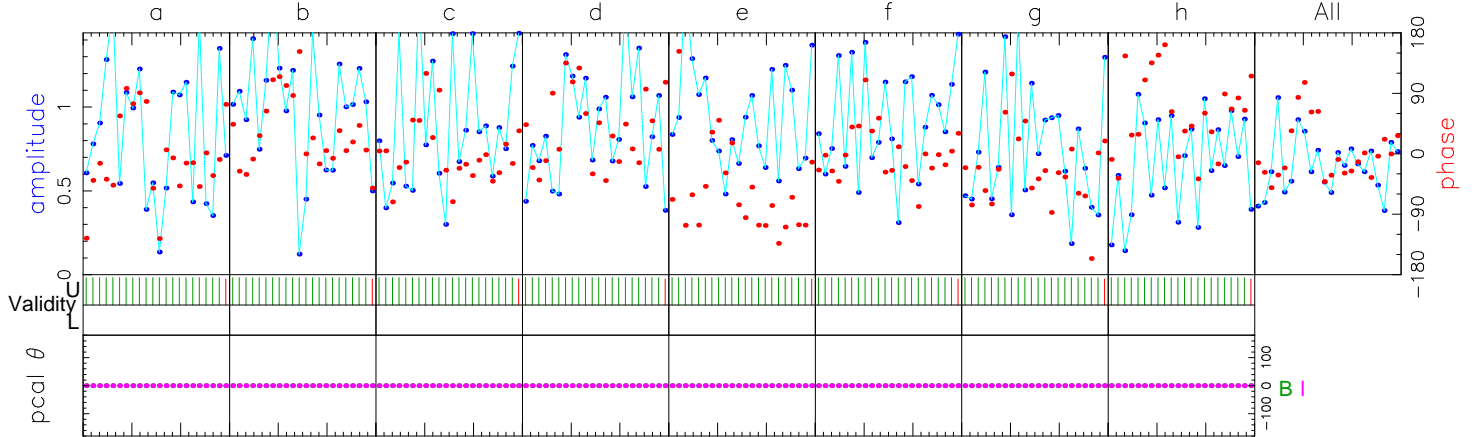
Fringe quality 8

SNR 17.6
 Int time 179.778
 Amp 0.481
 Phase 1.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.001371
 MBD -0.006911
 Fringe rate (Hz)
 0.005816
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060625
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		257.4
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:I	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		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-5.82491045417E+02	Apriori delay (usec)	-5.82499759382E+02	Resid mbdelay (usec)	-6.91104E-03	+/-	6.2E-05
Sband delay (usec)	-5.82498388382E+02	Apriori clock (usec)	1.0493291E+01	Resid sbdelay (usec)	1.37100E-03	+/-	4.9E-04
Phase delay (usec)	-5.82499759335E+02	Apriori clockrate (us/s)	-9.9999998E-08	Resid phdelay (usec)	4.64180E-08	+/-	2.1E-07
Delay rate (us/s)	-1.79876370684E+00	Apriori rate (us/s)	-1.79876377298E+00	Resid rate (us/s)	6.61337E-08	+/-	2.0E-09
Total phase (deg)	-300.9	Apriori accel (us/s/s)	9.22705781800E-06	Resid phase (deg)	1.5	+/-	6.5

ph/seg (deg)	42.1	Theor.	15.2	Amplitude	0.481 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5			
amp/seg (%)	49.4		26.6	Search (1024X32)	0.473	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000			
ph/frq (deg)	44.4		9.2	Inc. seg. avg.	0.629	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008		
amp/frq (%)	30.1		16.0	Inc. frq. avg.	0.582	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011			
						Data rate (Mb/s):	2048	nlags:	256	t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 253.5 el 34.4 pa 39.5 I: az 94.8 el 35.9 pa -57.5 u,v (fr/asec) 10982.092 1838.741 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/BI.1JFKZ Output file: /Exps/c202c/v1/1234/No0038/BI.W.18.1JFKZ

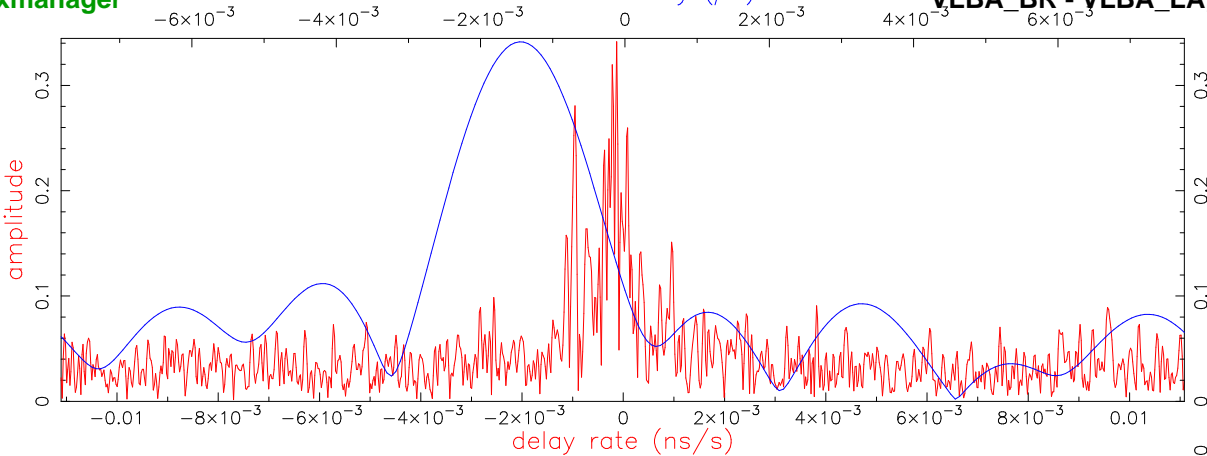
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, bl

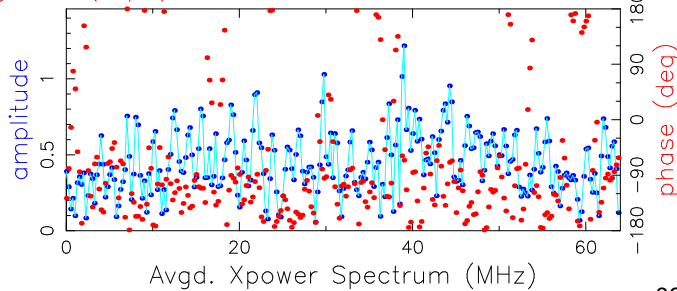
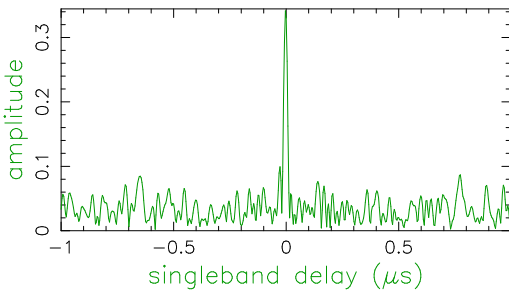
VLBA_BR - VLBA_LA, fgroup W, pol RR

multiband delay (μ s)



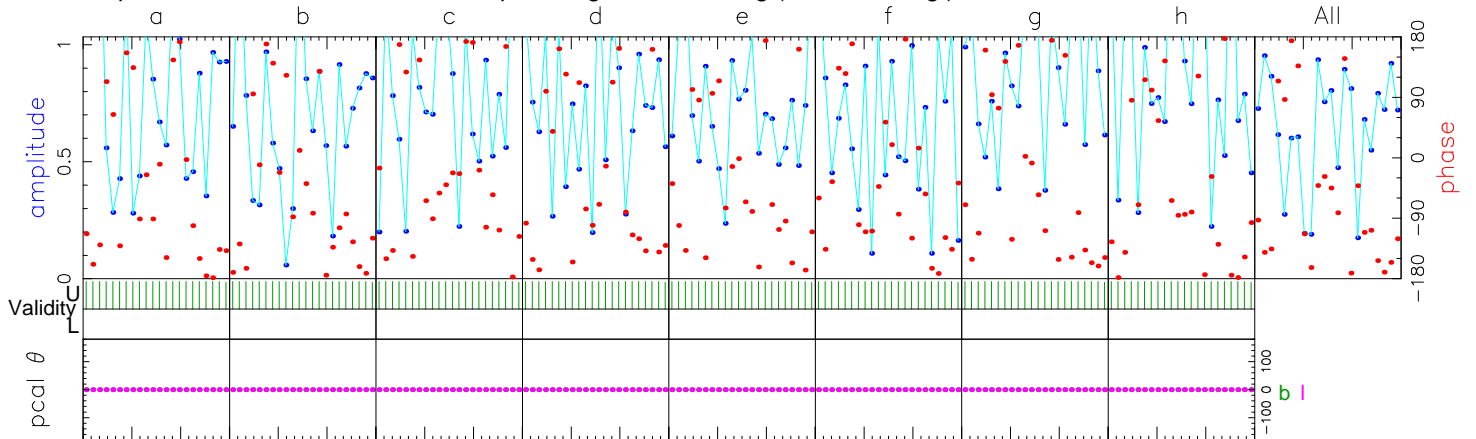
Fringe quality 9

SNR 12.6
 Int time 179.981
 Amp 0.345
 Phase -135.7
 PFD 3.3e-28
 Delays (us)
 SBD -0.002666
 MBD -0.001442
 Fringe rate (Hz)
 -0.011187
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060626
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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
	-148.2	-134.8	-121.4	-150.5	-117.0	-107.9	-136.9	-155.9	Phase	-135.7
	0.4	0.3	0.4	0.3	0.3	0.3	0.4	0.4	Ampl.	0.3
	255.4	257.2	256.7	256.7	256.3	255.5	255.7	256.5	Sbd box	256.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.47829713307E+03		Apriori delay (usec)		-3.47829569068E+03		Resid mbdelay (usec)		-1.44240E-03	+/- 8.6E-05
Sband delay (usec)	-3.47829835668E+03		Apriori clock (usec)		-1.2902908E+00		Resid sbdelay (usec)		-2.66600E-03	+/- 6.8E-04
Phase delay (usec)	-3.47829569496E+03		Apriori clockrate (us/s)		9.9999998E-08		Resid phdelay (usec)		-4.28568E-06	+/- 2.9E-07
Delay rate (us/s)	-7.68789046188E-02		Apriori rate (us/s)		-7.68787774097E-02		Resid rate (us/s)		-1.27209E-07	+/- 2.8E-09
Total phase (deg)			Apriori accel (us/s/s)		2.36774444030E-05		Resid phase (deg)		-135.7	+/- 9.1

RMS Theor. Amplitude 0.345 +/- 0.027
 ph/seg (deg) 66.0 21.3 Search (1024X32) 0.339 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 112.7 37.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 18.7 12.8 Inc. seg. avg. 0.607 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 16.6 22.4 Inc. frq. avg. 0.346 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 92.6 el 25.0 pa -44.1 l: az 94.8 el 35.9 pa -57.5 u,v (fr/asec) 479.542 1955.713 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/bl..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/bl.W.35.1JFKZ

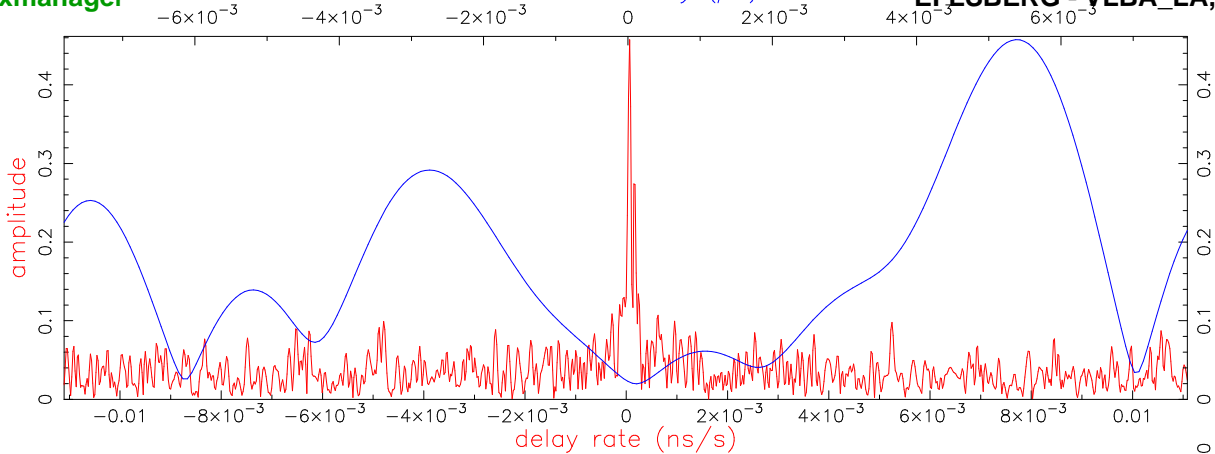
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, BI

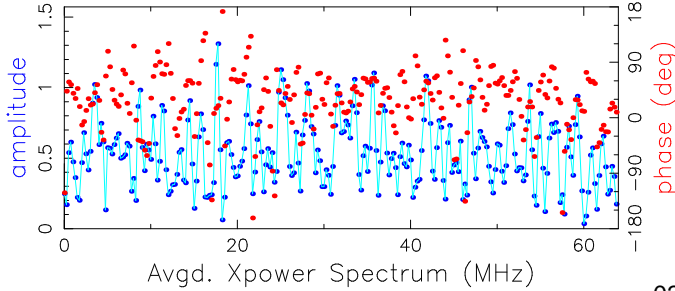
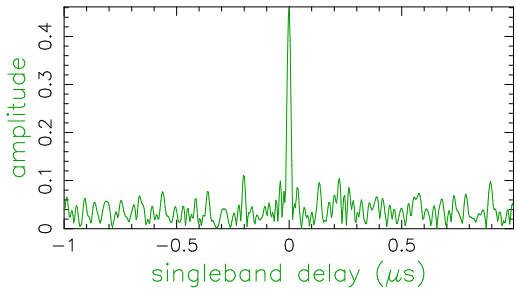
EFLSBERG - VLBA_LA, fgroup W, pol RR

multiband delay (μ s)



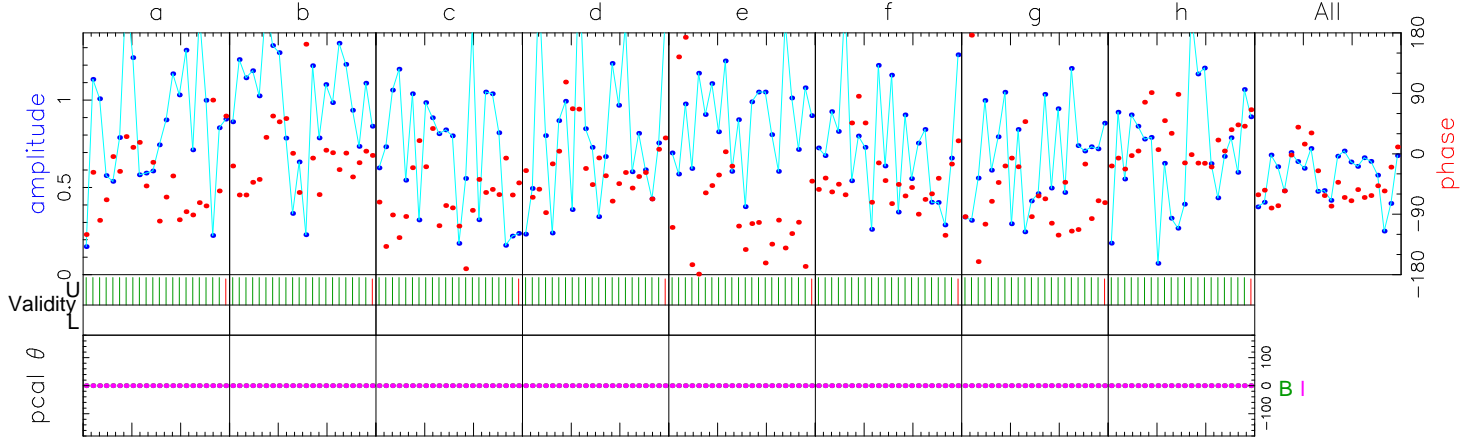
Fringe quality 8

SNR 16.9
 Int time 179.778
 Amp 0.462
 Phase -40.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.001235
 MBD 0.005358
 Fringe rate (Hz)
 0.005487
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060627
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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
	-45.5	-9.3	-70.8	-21.1	-113.6	-39.5	-76.5	16.9	Phase	-40.5
	0.6	0.8	0.5	0.6	0.5	0.6	0.5	0.6	Ampl.	0.6
	257.2	256.6	257.0	256.5	257.3	257.5	257.5	257.4	Sbd box	256.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.82494401698E+02		Apriori delay (usec)		-5.82499759382E+02		Resid mbdelay (usec)		5.35768E-03	+/- 6.4E-05
Sband delay (usec)	-5.82500994632E+02		Apriori clock (usec)		1.0493291E+01		Resid sbdelay (usec)		-1.23525E-03	+/- 5.1E-04
Phase delay (usec)	-5.82499760659E+02		Apriori clockrate (us/s)		-9.9999998E-08		Resid phdelay (usec)		-1.27780E-06	+/- 2.1E-07
Delay rate (us/s)	-1.79876371058E+00		Apriori rate (us/s)		-1.79876377298E+00		Resid rate (us/s)		6.23983E-08	+/- 2.1E-09
Total phase (deg)	-342.9		Apriori accel (us/s/s)		9.22705781800E-06		Resid phase (deg)		-40.5	+/- 6.8

ph/seg (deg) 35.6 15.9 Search (1024X32) 0.456 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 36.3 27.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 45.1 9.6 Inc. seg. avg. 0.548 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 31.1 16.7 Inc. frq. avg. 0.568 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 253.5 el 34.4 pa 39.5 I: az 94.8 el 35.9 pa -57.5 u,v (fr/asec) 10982.092 1838.741 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/BI.1JFKZ Output file: /Exps/c202c/v1/1234/No0038/BI.W.37.1JFKZ

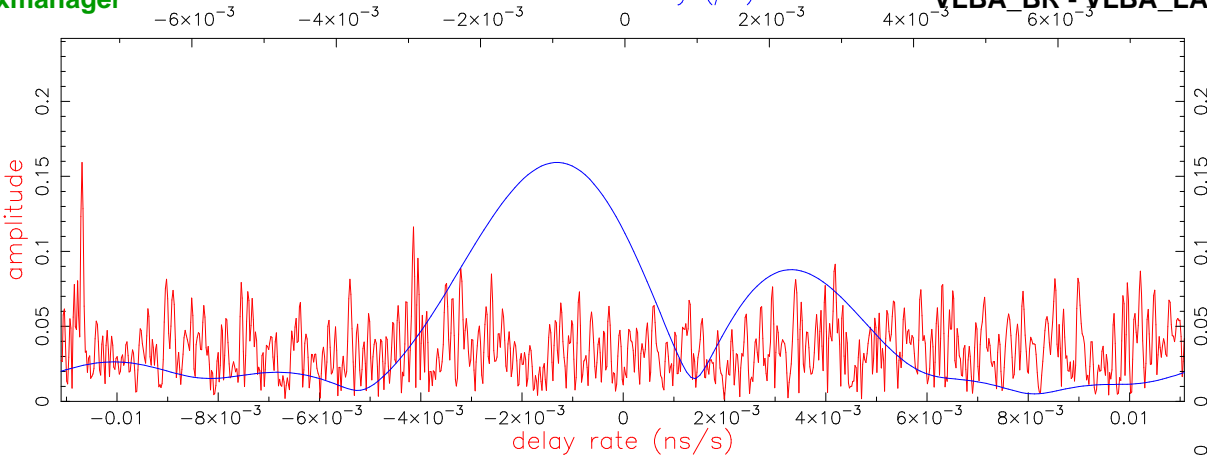
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, bl

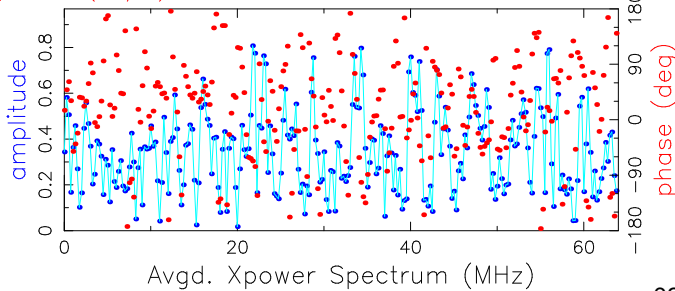
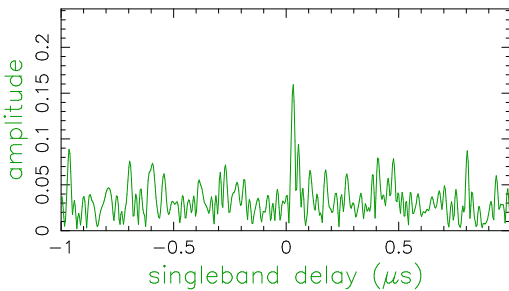
VLBA_BR - VLBA_LA, fgroup W, pol LR

multiband delay (μ s)



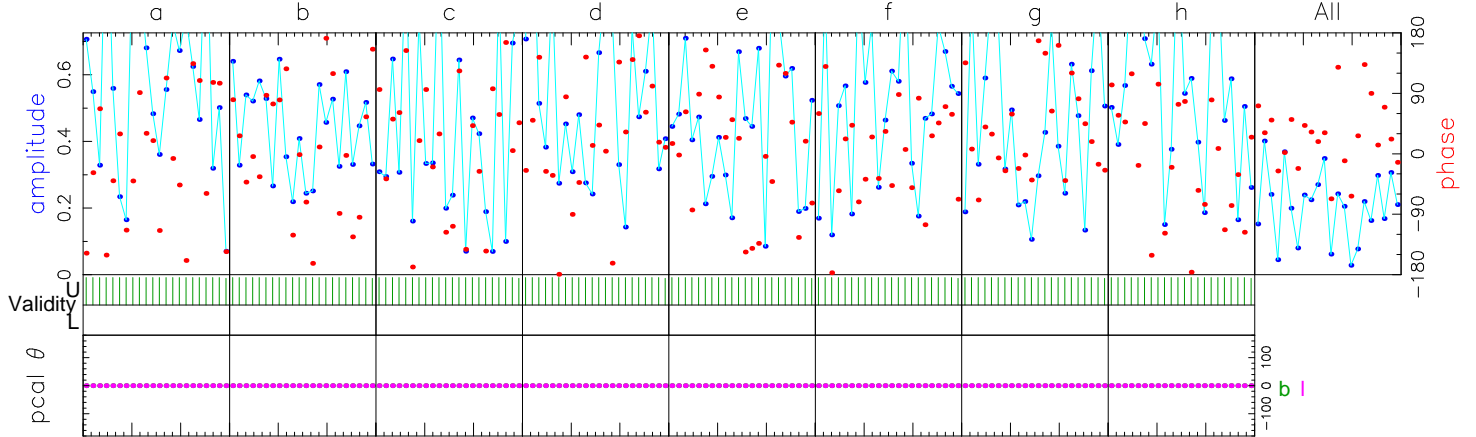
Fringe quality 0

SNR 5.9
 Int time 179.981
 Amp 0.242
 Phase 33.4
 PFD 4.6e-01
 Delays (us)
 SBD 0.030783
 MBD -0.000965
 Fringe rate (Hz)
 -0.941956
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060628
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.47826540527E+03				-3.47829569068E+03				Resid mbdelay (usec)	-9.64590E-04 +/- 1.9E-04
Sband delay (usec)	-3.47826490768E+03				-1.2902908E+00				Resid sbdelay (usec)	3.07830E-02 +/- 1.5E-03
Phase delay (usec)	-3.47829568962E+03				9.9999998E-08				Resid phdelay (usec)	1.05630E-06 +/- 6.2E-07
Delay rate (us/s)	-7.68894887612E-02				-7.68787774097E-02				Resid rate (us/s)	-1.07114E-05 +/- 5.9E-09
Total phase (deg)			19.8		2.36774444030E-05				Resid phase (deg)	33.4 +/- 19.6
	RMS	Theor.	Amplitude	0.242 +/- 0.041					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	51.0	45.9	Search (1024X32)	0.157					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	70.6	80.2	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	29.4	27.7	Inc. seg. avg.	0.238					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	44.9	48.3	Inc. frq. avg.	0.230					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 92.6 el 25.0 pa -44.1 l: az 94.8 el 35.9 pa -57.5 u,v (fr/asec) 479.542 1955.713 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/bl..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/bl.W.52.1JFKZ

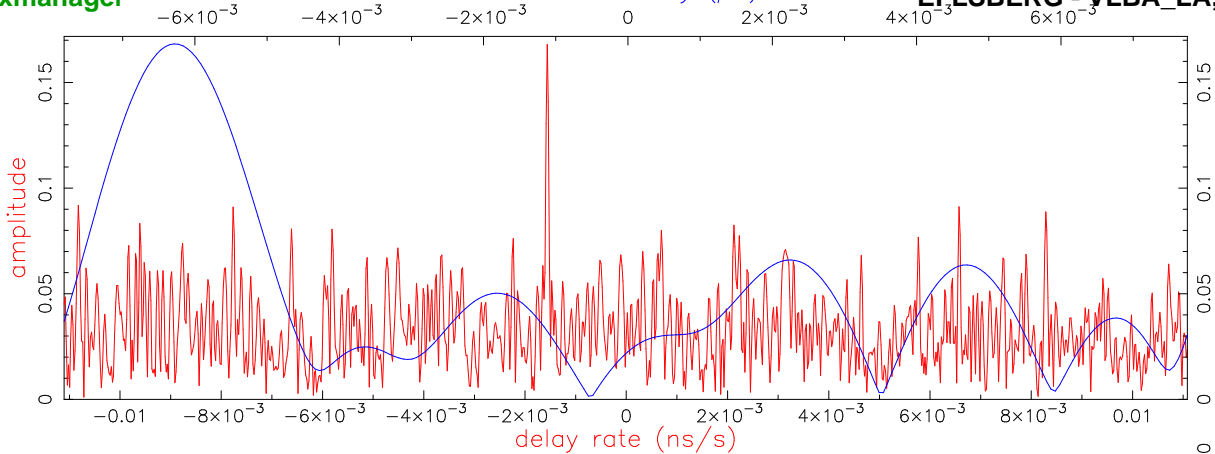
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, BI

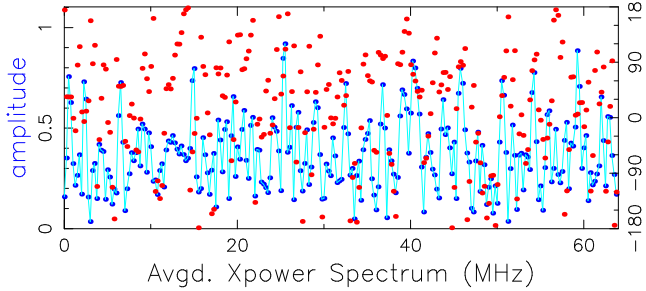
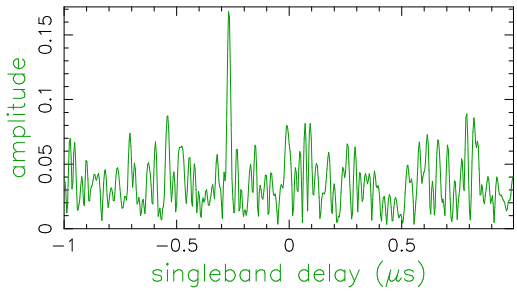
EFLSBERG - VLBA_LA, fgroup W, pol LR

multiband delay (μ s)



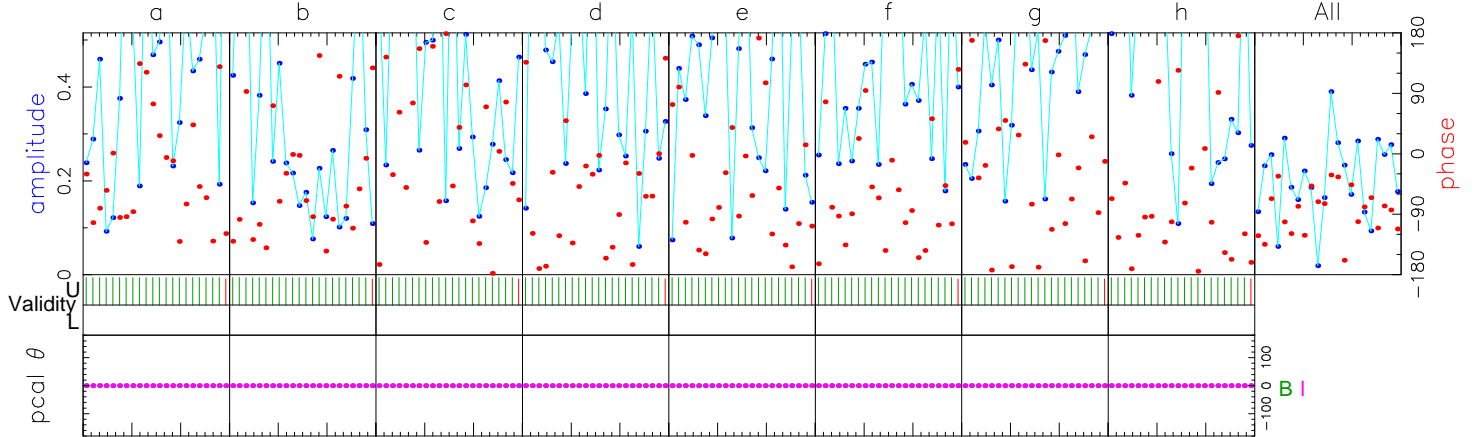
Fringe quality 0

SNR 6.2
 Int time 179.778
 Amp 0.172
 Phase -85.9
 PFD 5.4e-02
 Delays (us)
 SBD -0.268068
 MBD -0.006212
 Fringe rate (Hz)
 -0.138261
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060628
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:I	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		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd) -5.82771596747E+02 Apriori delay (usec) -5.82499759382E+02 Resid mbdelay (usec) -6.21236E-03 +/- 1.7E-04
 Sband delay (usec) -5.82767826882E+02 Apriori clock (usec) 1.0493291E+01 Resid sbdelay (usec) -2.68068E-01 +/- 1.4E-03
 Phase delay (usec) -5.82499762095E+02 Apriori clockrate (us/s) -9.9999998E-08 Resid phdelay (usec) -2.71388E-06 +/- 5.8E-07
 Delay rate (us/s) -1.79876534520E+00 Apriori rate (us/s) -1.79876377298E+00 Resid rate (us/s) -1.57222E-06 +/- 5.6E-09
 Total phase (deg) -28.3 Apriori accel (us/s/s) 9.22705781800E-06 Resid phase (deg) -85.9 +/- 18.3

RMS Theor. Amplitude 0.172 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 34.2 43.0 Search (1024X32) 0.159 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 53.6 75.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 23.6 25.9 Inc. seg. avg. 0.161 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 32.6 45.3 Inc. frq. avg. 0.161 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 253.5 el 34.4 pa 39.5 I: az 94.8 el 35.9 pa -57.5 u,v (fr/asec) 10982.092 1838.741 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/BI..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/BI.W.53.1JFKZ

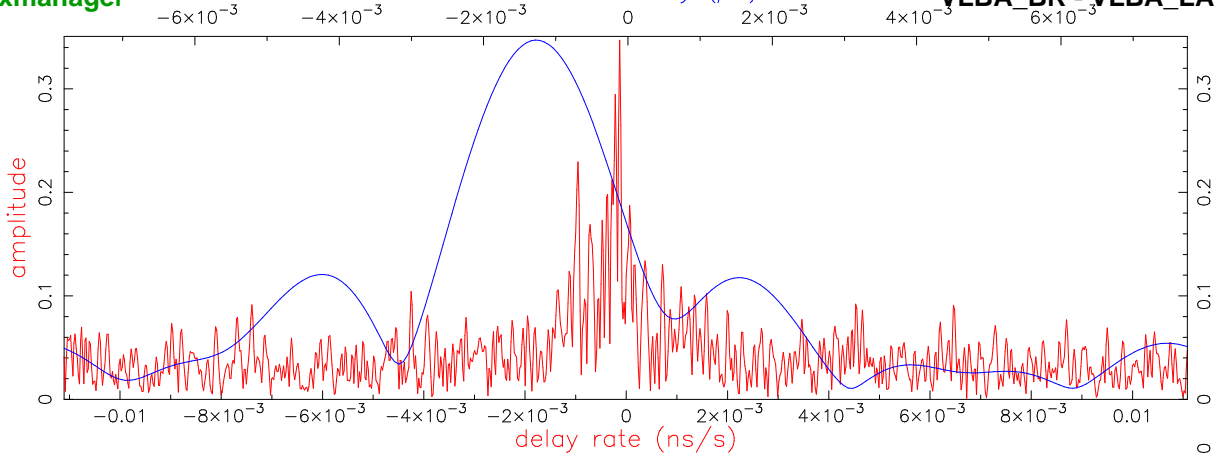
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, bl

VLBA_BR - VLBA_LA, fgroup W, pol LL

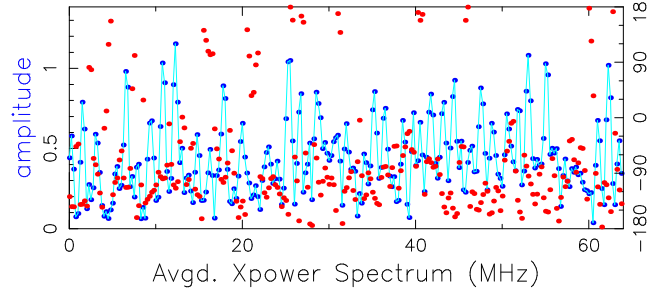
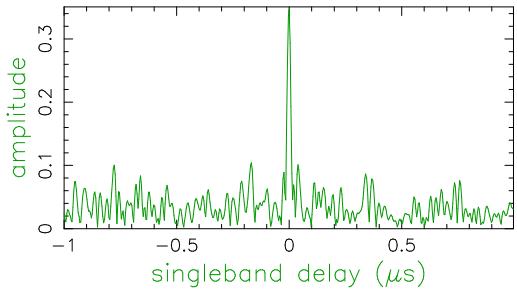
multiband delay (μ s)



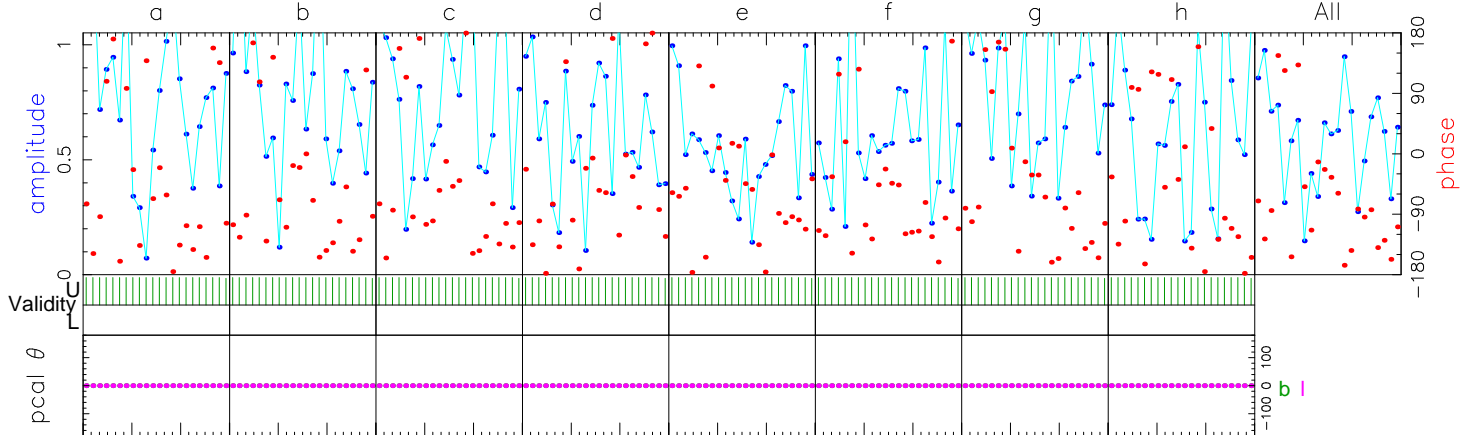
Fringe quality 9

SNR 12.9
Int time 179.981
Amp 0.351
Phase -114.7
PFD 1.9e-29
Delays (us)
SBD -0.001275
MBD -0.001305
Fringe rate (Hz)
-0.010932
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512

Exp. c202c
Yr:day 2020:286
Start 043000.00
Stop 043300.22
FRT 043130.00
Corr/FF/build
2021:039:055416
2021:039:060623
2020:247:085004
RA & Dec (J2000)
02h38m38.930107s
+16°36'59.274536"



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-3.47829699582E+03	-3.47829699582E+03	-3.47829699582E+03	-3.47829699582E+03	-3.47829699582E+03	-3.47829699582E+03	-3.47829699582E+03	-3.47829699582E+03		
Sband delay (usec)	-3.47829699582E+03	-3.47829699582E+03	-3.47829699582E+03	-3.47829699582E+03	-3.47829699582E+03	-3.47829699582E+03	-3.47829699582E+03	-3.47829699582E+03		
Phase delay (usec)	-3.47829699582E+03	-3.47829699582E+03	-3.47829699582E+03	-3.47829699582E+03	-3.47829699582E+03	-3.47829699582E+03	-3.47829699582E+03	-3.47829699582E+03		
Delay rate (us/s)	-7.68789017162E-02	-7.68789017162E-02	-7.68789017162E-02	-7.68789017162E-02	-7.68789017162E-02	-7.68789017162E-02	-7.68789017162E-02	-7.68789017162E-02		
Total phase (deg)			-128.4							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
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										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
ph/seg (deg)	61.5	20.9		0.351 +/- 0.027						
amp/seg (%)	92.9	36.5		0.000						
ph/frq (deg)	20.4	12.6		0.561						
amp/frq (%)	22.6	22.0		0.352						
b: az 92.6 el 25.0 pa -44.1										
l: az 94.8 el 35.9 pa -57.5										
u,v (fr/asec) 479.542 1955.713										
Control file: cf_1234_88GHz_gmva										
Input file: /Exps/c202c/v1/1234/No0038/bl..1JFKZ										
Output file: /Exps/c202c/v1/1234/No0038/bl.W.6.1JFKZ										

simultaneous interpolator

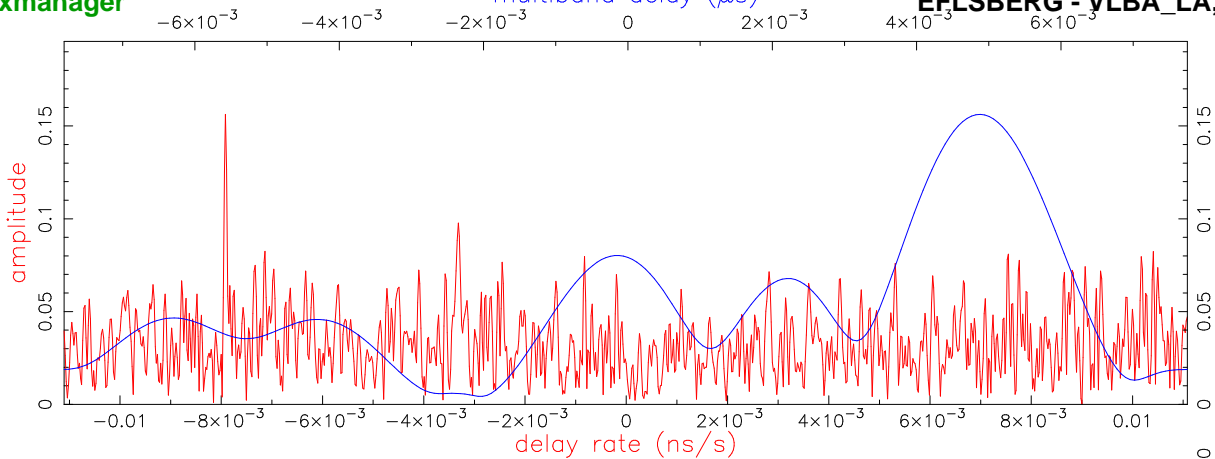
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, BI

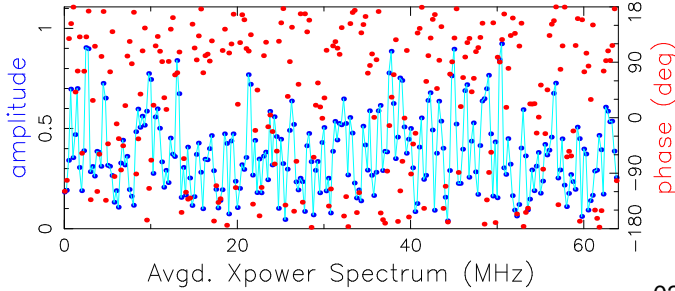
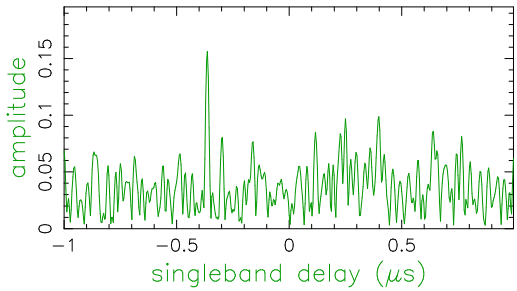
EFLSBERG - VLBA_LA, fgroup W, pol RL

multiband delay (μ s)



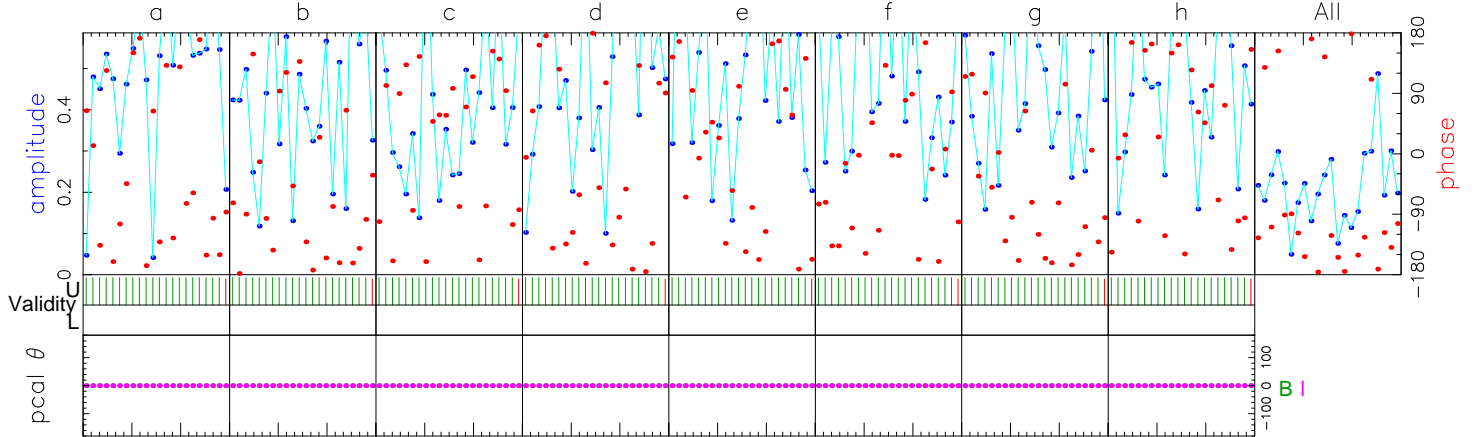
Fringe quality 0

SNR 5.8
 Int time 179.778
 Amp 0.196
 Phase -155.0
 PFD 6.4e-01
 Delays (us)
 SBD -0.364210
 MBD 0.004863
 Fringe rate (Hz)
 -0.696704
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060630
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:I	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		
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-5.82869895908E+02	-5.82863968882E+02	-5.82499764276E+02	-1.79877169547E+00	-5.82869895908E+02	-5.82499759382E+02	-5.82499759382E+02	-5.82499759382E+02	4.86347E-03	+/- 1.9E-04
Sband delay (usec)	-5.82863968882E+02	-5.82499764276E+02	-5.82499764276E+02	-1.79877169547E+00	-5.82499759382E+02	-5.82499759382E+02	-5.82499759382E+02	-5.82499759382E+02	-3.64210E-01	+/- 1.5E-03
Phase delay (usec)	-5.82499764276E+02	-5.82499764276E+02	-5.82499764276E+02	-1.79877169547E+00	-5.82499759382E+02	-5.82499759382E+02	-5.82499759382E+02	-5.82499759382E+02	-4.89480E-06	+/- 6.3E-07
Delay rate (us/s)	-1.79877169547E+00	-1.79877169547E+00	-1.79877169547E+00	-1.79877169547E+00	-1.79877169547E+00	-1.79877169547E+00	-1.79877169547E+00	-1.79877169547E+00	-7.92249E-06	+/- 6.0E-09
Total phase (deg)			-97.4						-155.0	+/- 19.9
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-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
pcal θ										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
Search (1024X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
u,v (fr/asec)									10982.092	1838.741
simultaneous interpolator										

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

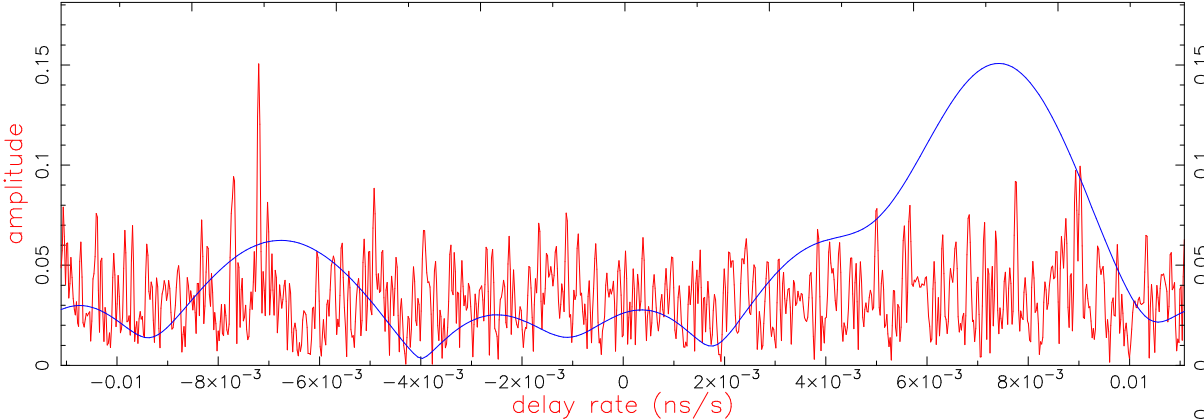
0235+164.1JFKZ, No0038, bl

VLBA_BR - VLBA_LA, fgroup W, pol RL

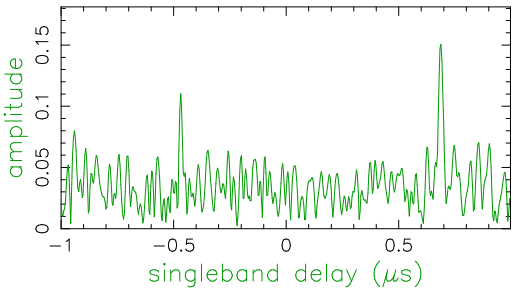
multiband delay (μ s)

-6×10^{-3} -4×10^{-3} -2×10^{-3} 0 2×10^{-3} 4×10^{-3} 6×10^{-3}

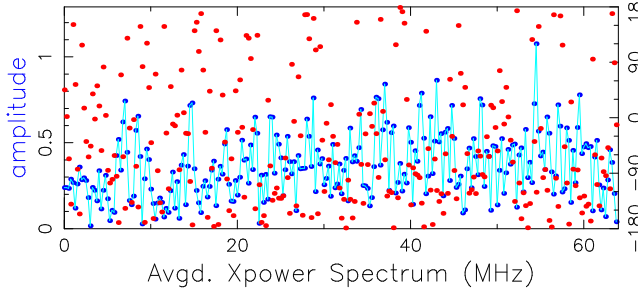
Fringe quality 0



SNR 5.6
 Int time 179.981
 Amp 0.181
 Phase 168.3
 PFD 9.6e-01
 Delays (us)
 SBD 0.686218
 MBD 0.005114
 Fringe rate (Hz)
 -0.633529
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512

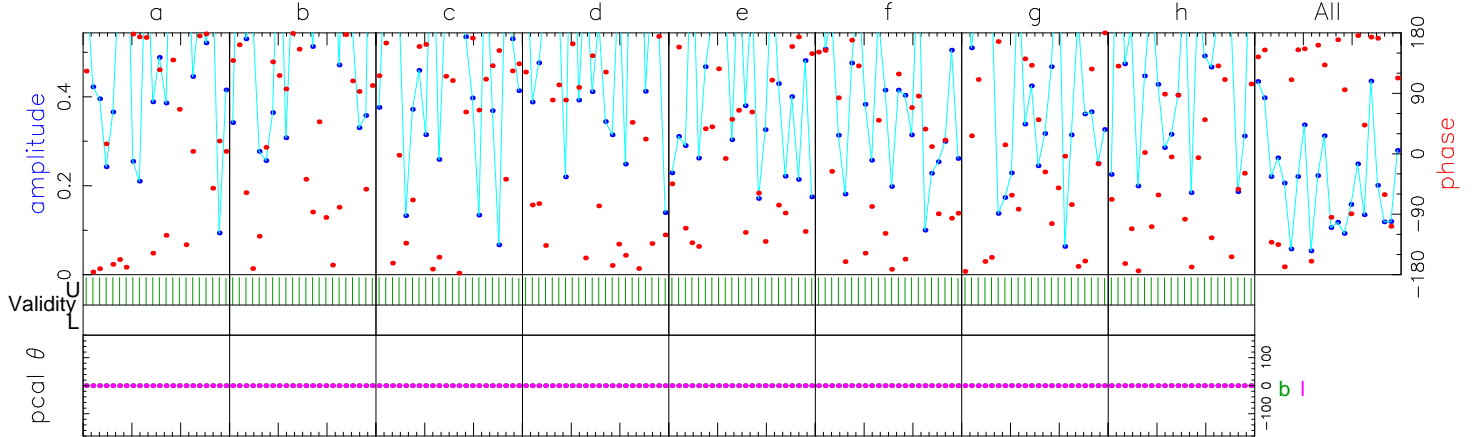


singleband delay (μ s)



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060631
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-3.47760307684E+03	Apriori delay (usec)	-3.47829569068E+03	Resid mbdelay (usec)	5.11383E-03	+/-	2.0E-04
Sband delay (usec)	-3.47760947268E+03	Apriori clock (usec)	-1.2902908E+00	Resid sbdelay (usec)	6.86218E-01	+/-	1.6E-03
Phase delay (usec)	-3.47829568536E+03	Apriori clockrate (us/s)	9.9999998E-08	Resid phdelay (usec)	5.31574E-06	+/-	6.5E-07
Delay rate (us/s)	-7.68859815150E-02	Apriori rate (us/s)	-7.68787774097E-02	Resid rate (us/s)	-7.20411E-06	+/-	6.3E-09
Total phase (deg)	154.6	Apriori accel (us/s/s)	2.36774444030E-05	Resid phase (deg)	168.3	+/-	20.6

ph/seg (deg)	61.3	Theor.	48.4	Amplitude	0.181 +/- 0.033	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5			
amp/seg (%)	85.3		84.4	Search (1024X32)	0.149	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000			
ph/frq (deg)	27.5		29.2	Inc. seg. avg.	0.190	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008		
amp/frq (%)	55.3		50.9	Inc. frq. avg.	0.169	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011			
						Data rate (Mb/s):	2048	nlags:	256	t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 92.6 el 25.0 pa -44.1 l: az 94.8 el 35.9 pa -57.5 u,v (fr/asec) 479.542 1955.713 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/bl..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/bl.W.75.1JFKZ

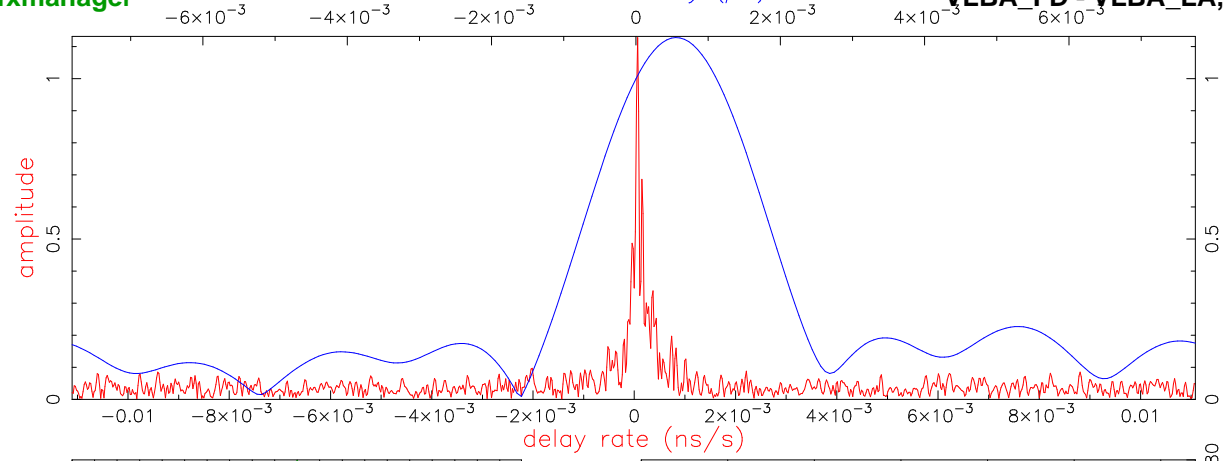
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, fl

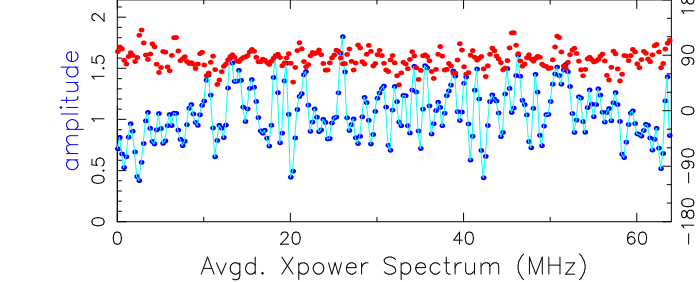
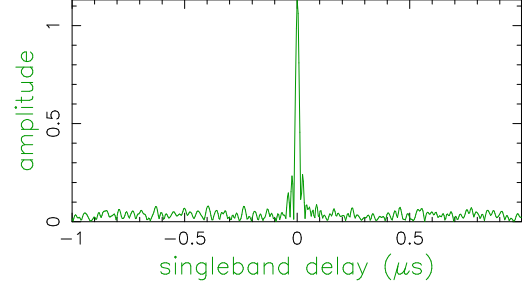
VLBA_FD - VLBA_LA, fgroup W, pol RR

multiband delay (μ s)



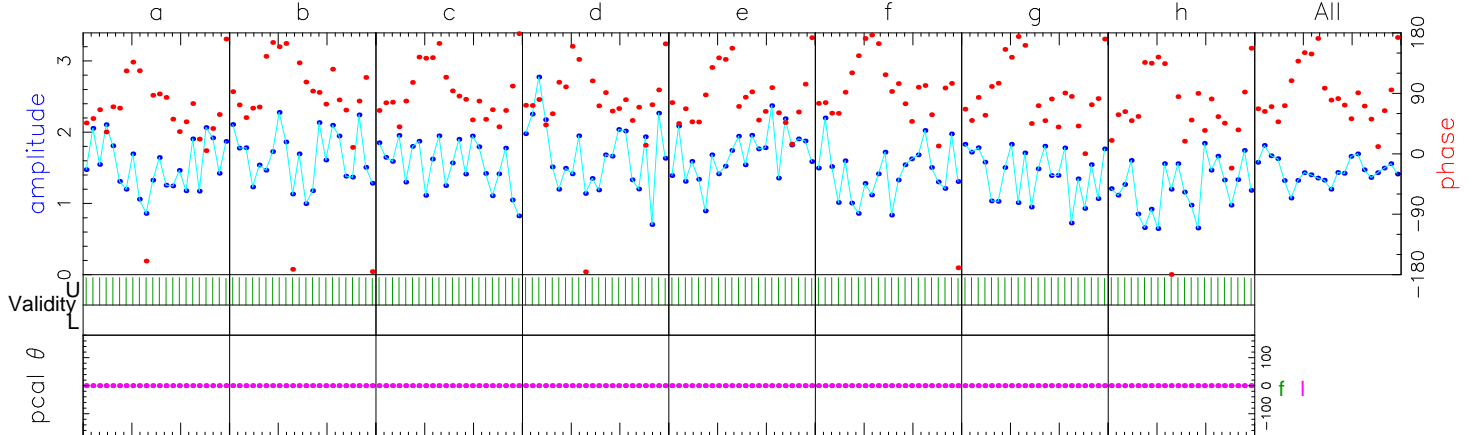
Fringe quality 7

SNR 41.5
Int time 179.980
Amp 1.132
Phase 85.4
PFD 0.0e+00
Delays (us)
SBD 0.000719
MBD 0.000576
Fringe rate (Hz) 0.006380
Ion TEC 0.000
Ref freq (MHz) 87940.0000
AP (sec) 0.512



Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 043000.00
Stop 043300.22
FRT 043130.00
Corr/FF/build
2021:039:055416
2021:039:060635
2020:247:085004
RA & Dec (J2000)
02h38m38.930107s
+16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	6.75952474269E+02		Apriori delay (usec)		6.75951898149E+02		Resid mbdelay (usec)		5.76121E-04	+/- 2.6E-05
Sband delay (usec)	6.75952616899E+02		Apriori clock (usec)		8.3485451E+00		Resid sbdelay (usec)		7.18750E-04	+/- 2.1E-04
Phase delay (usec)	6.75951900848E+02		Apriori clockrate (us/s)		5.0000000E-07		Resid phdelay (usec)		2.69891E-06	+/- 8.7E-08
Delay rate (us/s)	3.22442442055E-02		Apriori rate (us/s)		3.22441716504E-02		Resid rate (us/s)		7.25551E-08	+/- 8.4E-10
Total phase (deg)			Apriori accel (us/s/s)		-5.98283653224E-06		Resid phase (deg)		85.4	+/- 2.8

	RMS	Theor.	Amplitude	1.132 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	41.6	6.5	Search (1024X32)	1.099	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	32.5	11.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	13.6	3.9	Inc. seg. avg.	1.449	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	13.4	6.8	Inc. frq. avg.	1.149	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

f: az 92.3 el 38.1 pa -63.8 l: az 94.8 el 35.9 pa -57.5 u,v (fr/asec) -199.006 -793.790 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/fl..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/fl.W.106.1JFKZ

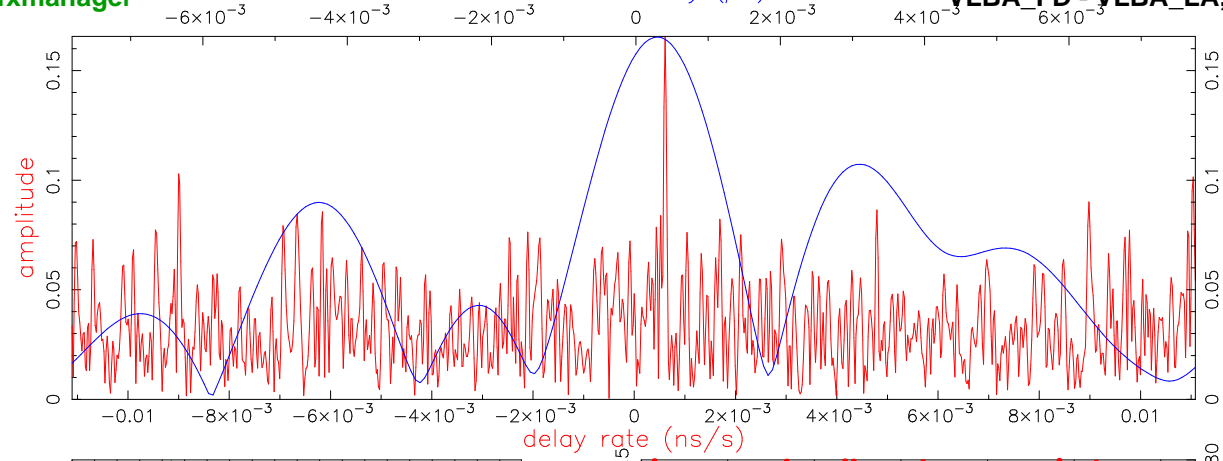
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

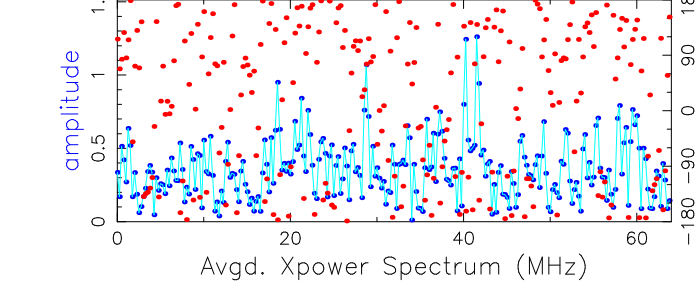
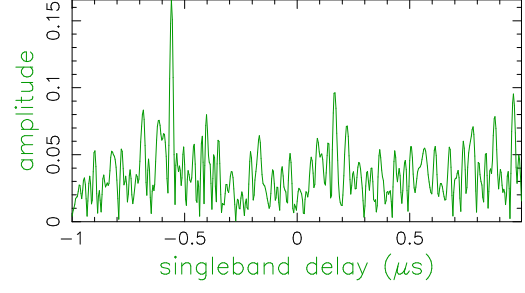
0235+164.1JFKZ, No0038, fl

VLBA_FD - VLBA_LA, fgroup W, pol LR

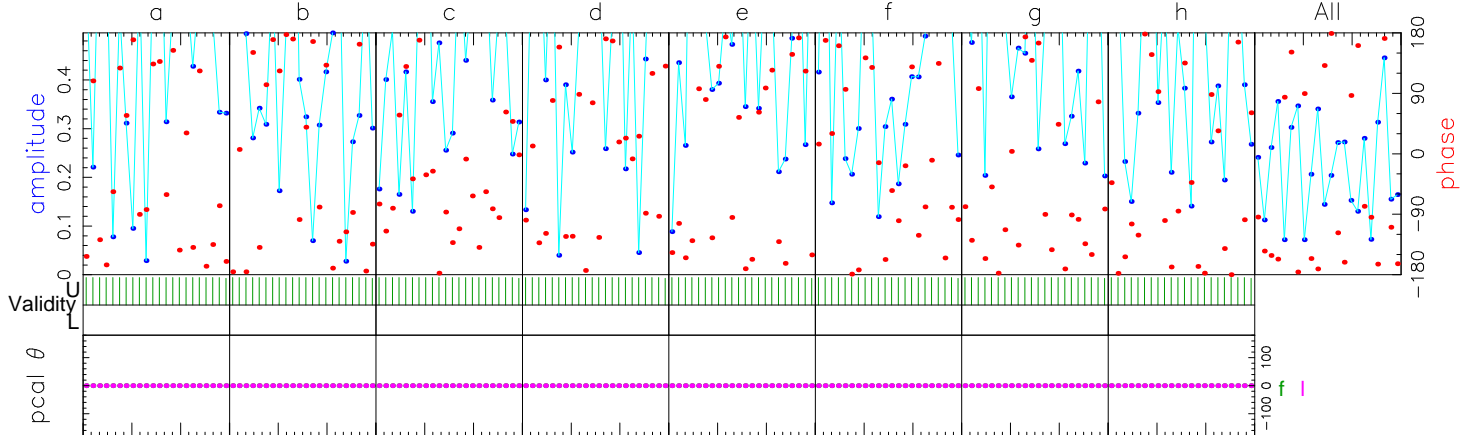
multiband delay (μ s)



Fringe quality 0
 SNR 6.1
 Int time 179.980
 Amp 0.166
 Phase -163.6
 PFD 1.6e-01
 Delays (us)
 SBD -0.558375
 MBD 0.000297
 Fringe rate (Hz)
 0.053816
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512
 Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060638
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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
	-172.9	-174.0	-77.8	-179.0	169.9	179.9	-144.1	-165.7	Phase	-163.6
	0.2	0.3	0.2	0.0	0.3	0.1	0.2	0.2	Ampl.	0.2
	106.5	114.1	156.8	213.7	113.9	81.6	32.2	344.0	Sbd box	114.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	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	
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.75389695619E+02		Apriori delay (usec)		6.75951898149E+02		Resid mbdelay (usec)		2.97470E-04	+/- 1.8E-04
Sband delay (usec)	6.75393523149E+02		Apriori clock (usec)		8.3485451E+00		Resid sbdelay (usec)		-5.58375E-01	+/- 1.4E-03
Phase delay (usec)	6.75951892980E+02		Apriori clockrate (us/s)		5.0000000E-07		Resid phdelay (usec)		-5.16881E-06	+/- 6.0E-07
Delay rate (us/s)	3.22447836163E-02		Apriori rate (us/s)		3.22441716504E-02		Resid rate (us/s)		6.11966E-07	+/- 5.7E-09
Total phase (deg)			Apriori accel (us/s/s)		-5.98283653224E-06		Resid phase (deg)		-163.6	+/- 18.9

ph/seg (deg) 55.4 44.3 Search (1024X32) 0.157 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.1 77.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 39.0 26.7 Inc. seg. avg. 0.172 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.2 46.6 Inc. frq. avg. 0.175 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 92.3 el 38.1 pa -63.8 l: az 94.8 el 35.9 pa -57.5 u,v (fr/asec) -199.006 -793.790 ion window (TEC) 0.00 0.00
 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/fl..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/fl.W.132.1JFKZ

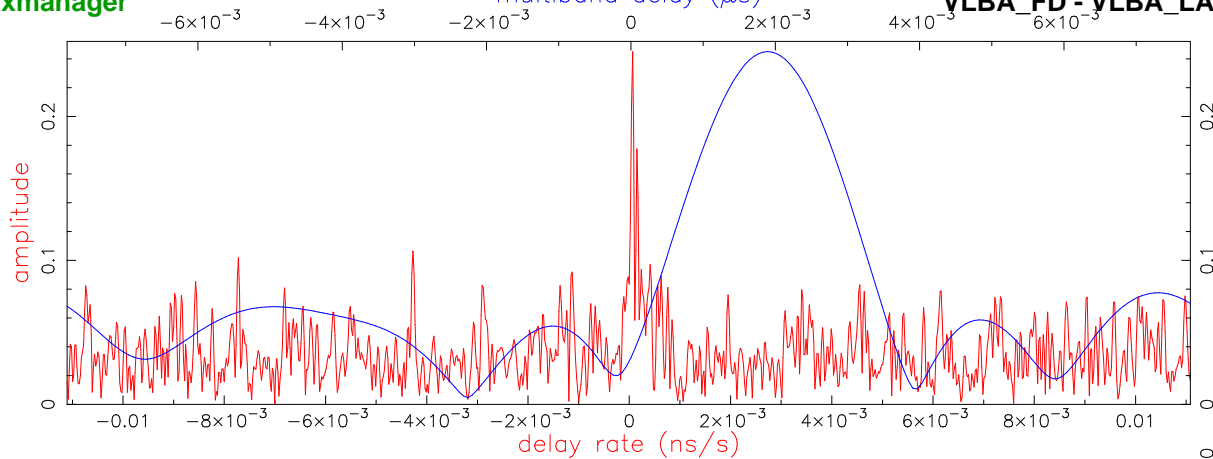
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, fl

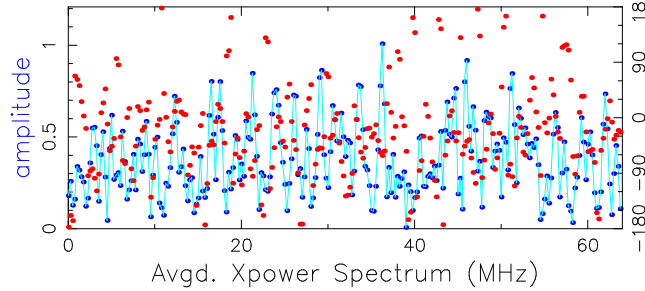
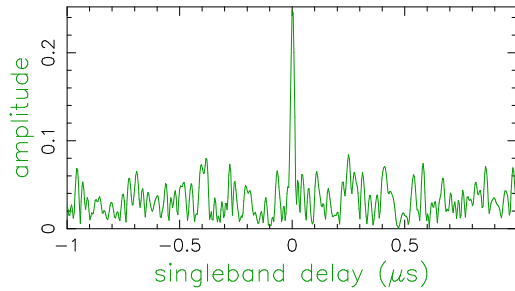
VLBA_FD - VLBA_LA, fgroup W, pol RL

multiband delay (μ s)



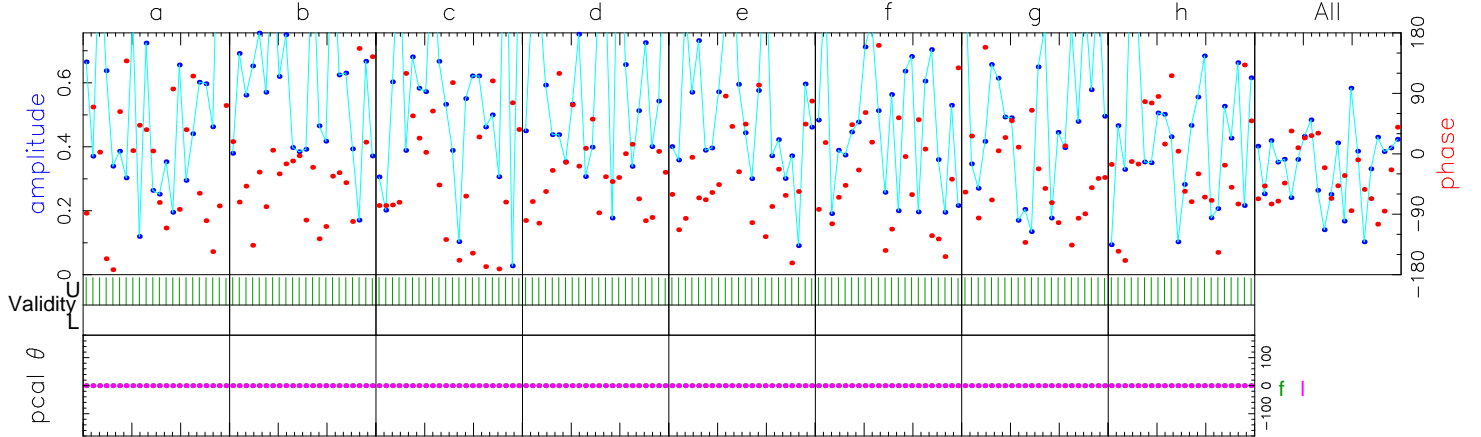
Fringe quality 9

SNR 9.2
 Int time 179.980
 Amp 0.252
 Phase -36.8
 PFD 4.4e-12
 Delays (us)
 SBD 0.001693
 MBD 0.001889
 Fringe rate (Hz) 0.006343
 Ion TEC 0.000
 Ref freq (MHz) 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060640
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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
	-30.1	-39.1	-27.3	-41.9	-35.5	-28.2	-49.9	-20.5	Phase	-36.8
	0.1	0.4	0.1	0.4	0.2	0.2	0.3	0.2	Ampl.	0.2
	91.0	257.2	319.8	257.1	476.6	79.2	257.3	156.2	Sbd box	257.4
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	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	
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	6.75953786863E+02	Apriori delay (usec)	6.75951898149E+02	Resid mbdelay (usec)	1.88871E-03	+/-	1.2E-04
Sband delay (usec)	6.75953591649E+02	Apriori clock (usec)	8.3485451E+00	Resid sbdelay (usec)	1.69350E-03	+/-	9.3E-04
Phase delay (usec)	6.75951896986E+02	Apriori clockrate (us/s)	5.0000000E-07	Resid phdelay (usec)	-1.16258E-06	+/-	3.9E-07
Delay rate (us/s)	3.22442437751E-02	Apriori rate (us/s)	3.22441716504E-02	Resid rate (us/s)	7.21248E-08	+/-	3.8E-09
Total phase (deg)	295.5	Apriori accel (us/s/s)	-5.98283653224E-06	Resid phase (deg)	-36.8	+/-	12.4

ph/seg (deg)	43.3	RMS	29.1	Theor.	43.3	Amplitude	0.252 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	58.0	Search (1024X32)	0.241	Inc. seg. avg.	0.305	Search	0.241	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	10.6	Inc. frq. avg.	0.237	Inc. frq. avg.	0.237	Inc. frq. avg.	0.237	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	42.7	Inc. frq. avg.	0.237	Inc. frq. avg.	0.237	Inc. frq. avg.	0.237	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
f: az 92.3 el 38.1 pa -63.8		l: az 94.8 el 35.9 pa -57.5		u, v (fr/asec)	-199.006 -793.790	Data rate (Mb/s):	2048	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/fl..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/fl.W.149.1JFKZ simultaneous interpolator

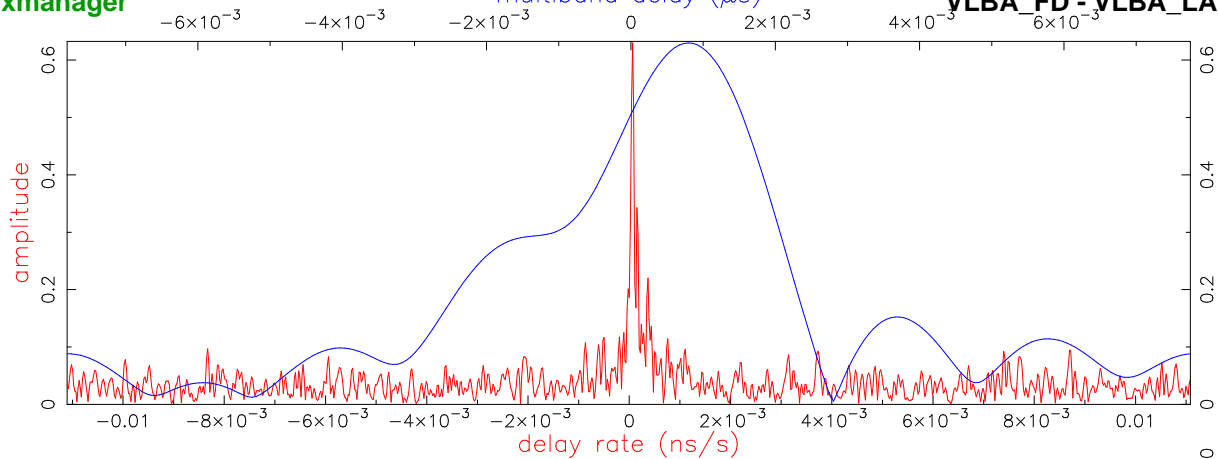
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, fl

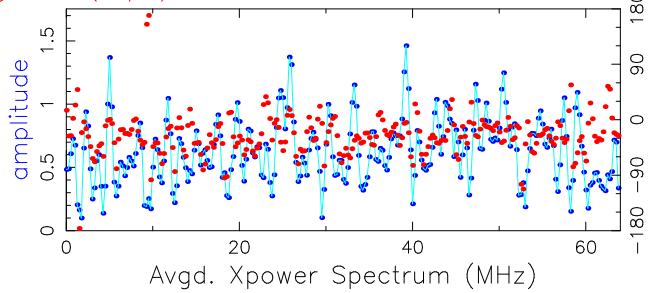
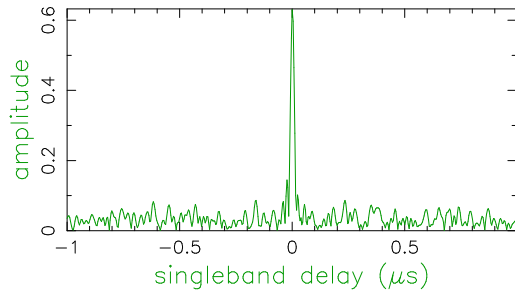
VLBA_FD - VLBA_LA, fgroup W, pol LL

multiband delay (μ s)



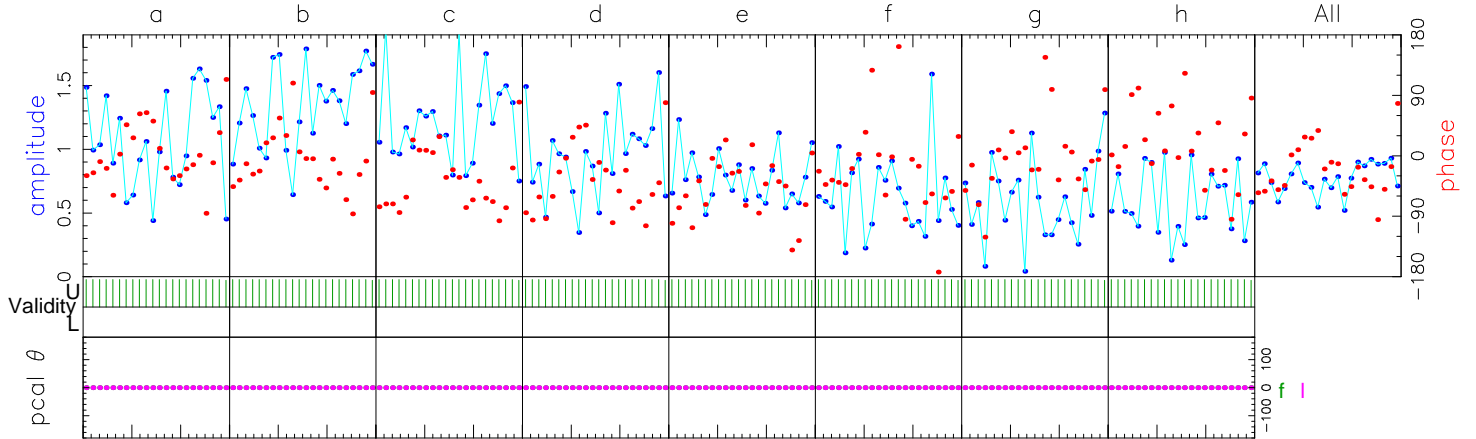
Fringe quality 8

SNR 23.2
 Int time 179.980
 Amp 0.633
 Phase -24.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.000833
 MBD 0.000811
 Fringe rate (Hz) 0.006163
 Ion TEC 0.000
 Ref freq (MHz) 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060634
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	6.75952708926E+02	Apriori delay (usec)	6.75951898149E+02	Resid mbdelay (usec)	8.10777E-04	+/-	4.7E-05
Sband delay (usec)	6.75952731149E+02	Apriori clock (usec)	8.3485451E+00	Resid sbdelay (usec)	8.33000E-04	+/-	3.7E-04
Phase delay (usec)	6.75951897380E+02	Apriori clockrate (us/s)	5.0000000E-07	Resid phdelay (usec)	-7.68554E-07	+/-	1.6E-07
Delay rate (us/s)	3.22442417374E-02	Apriori rate (us/s)	3.22441716504E-02	Resid rate (us/s)	7.00870E-08	+/-	1.5E-09
Total phase (deg)	308.0	Apriori accel (us/s/s)	-5.98283653224E-06	Resid phase (deg)	-24.3	+/-	4.9

ph/seg (deg)	38.3	RMS	11.6	Theor.	0.633 +/- 0.027	Amplitude	0.633 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	29.2	Search (1024X32)	0.615	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	23.4	Inc. seg. avg.	0.760	Inc. frq. avg.	0.664	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	36.3	Inc. frq. avg.	0.664	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags:	256	t_cohere	infinite
f: az 92.3 el 38.1 pa -63.8		l: az 94.8 el 35.9 pa -57.5		u, v (fr/asec)	-199.006 -793.790	ion window (TEC)	0.00	0.00			

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/fl..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/fl.W.90.1JFKZ

simultaneous interpolator

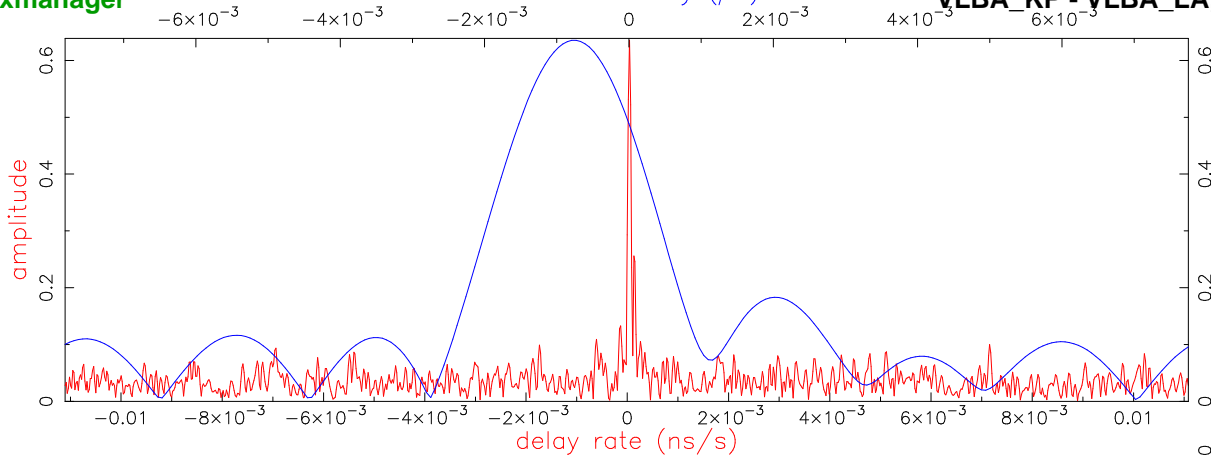
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, kl

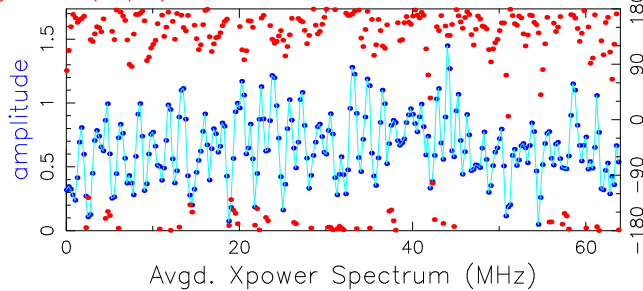
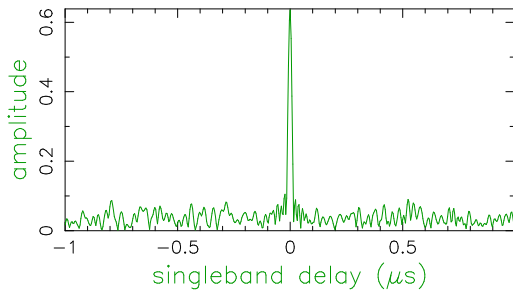
VLBA_KP - VLBA_LA, fgroup W, pol RR

multiband delay (μ s)



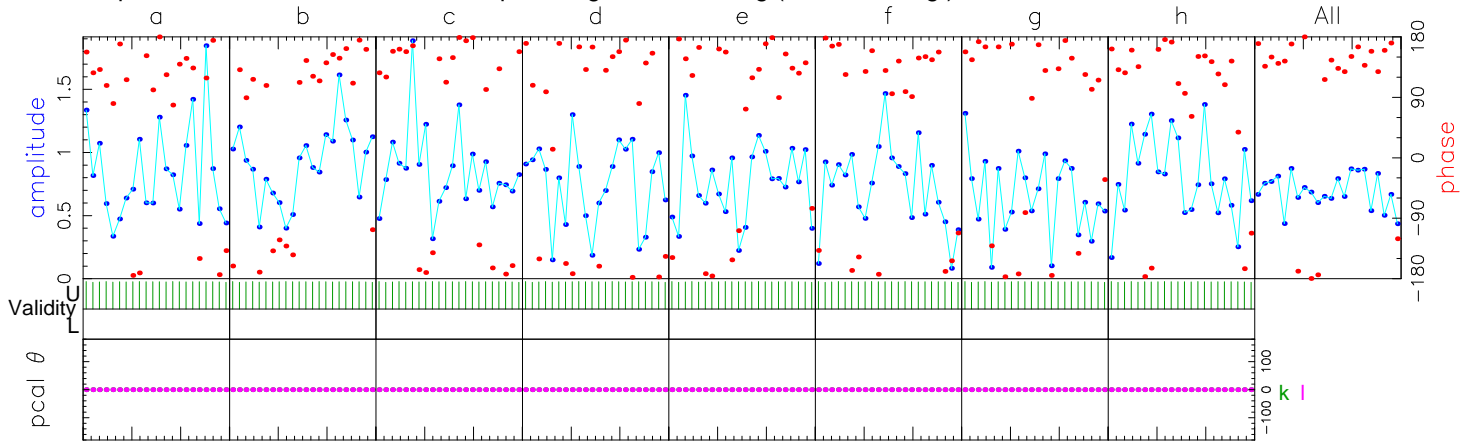
Fringe quality 9

SNR 23.3
 Int time 178.117
 Amp 0.639
 Phase 155.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.000938
 MBD -0.000781
 Fringe rate (Hz)
 0.003299
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060636
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:l	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	
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.32784756939E+03								Resid mbdelay (usec)	-7.80951E-04 +/- 4.7E-05
Sband delay (usec)	-1.32784772694E+03								Resid sbdelay (usec)	-9.38500E-04 +/- 3.7E-04
Phase delay (usec)	-1.32784678353E+03								Resid phdelay (usec)	4.90982E-06 +/- 1.6E-07
Delay rate (us/s)	1.05639855113E-01								Resid rate (us/s)	3.75109E-08 +/- 1.5E-09
Total phase (deg)			-51.8						Resid phase (deg)	155.4 +/- 4.9
	RMS	Theor.	Amplitude	0.639 +/- 0.027					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	26.9	11.5	Search (1024X32)	0.613					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	22.5	20.1	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	7.5	7.0	Inc. seg. avg.	0.681					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	11.2	12.1	Inc. frq. avg.	0.635					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

k: az 89.2 el 31.5 pa -62.3 l: az 94.8 el 35.9 pa -57.5 u,v (fr/asec) -641.470 -351.953 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/kl..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/kl.W.115.1JFKZ

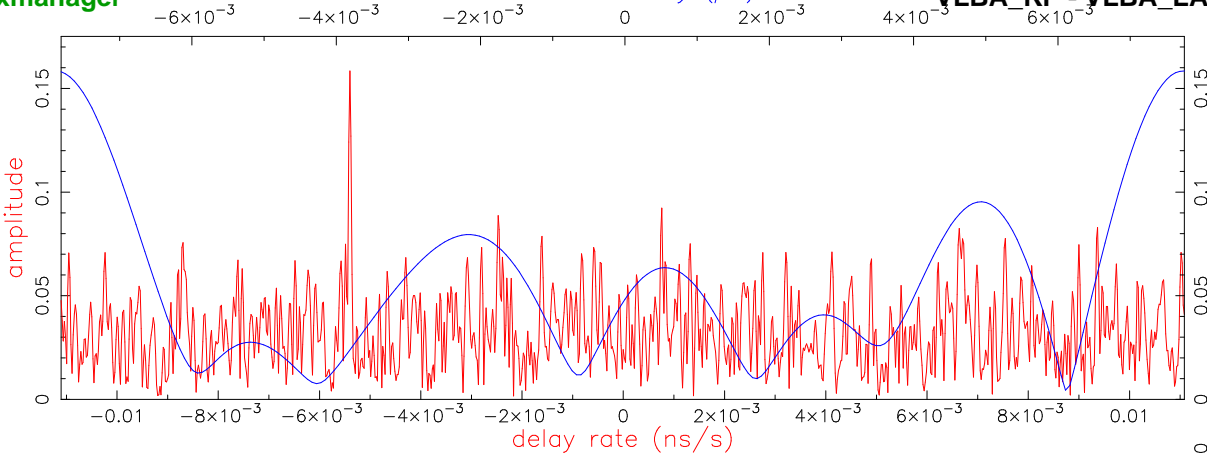
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, kl

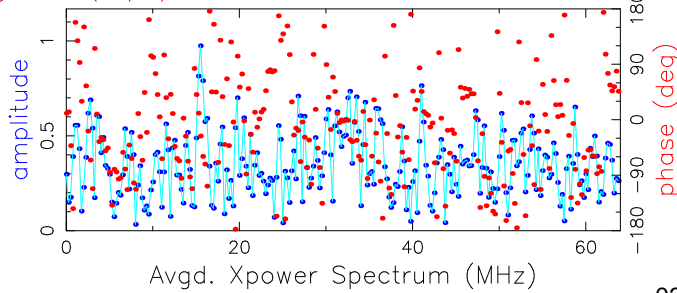
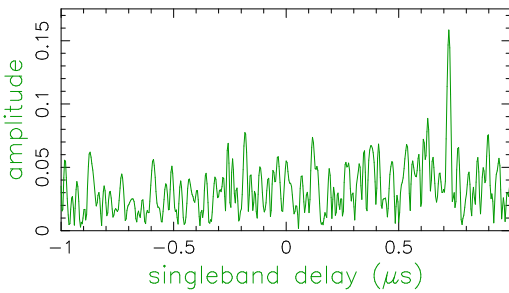
VLBA_KP - VLBA_LA, fgroup W, pol LR

multiband delay (μ s)



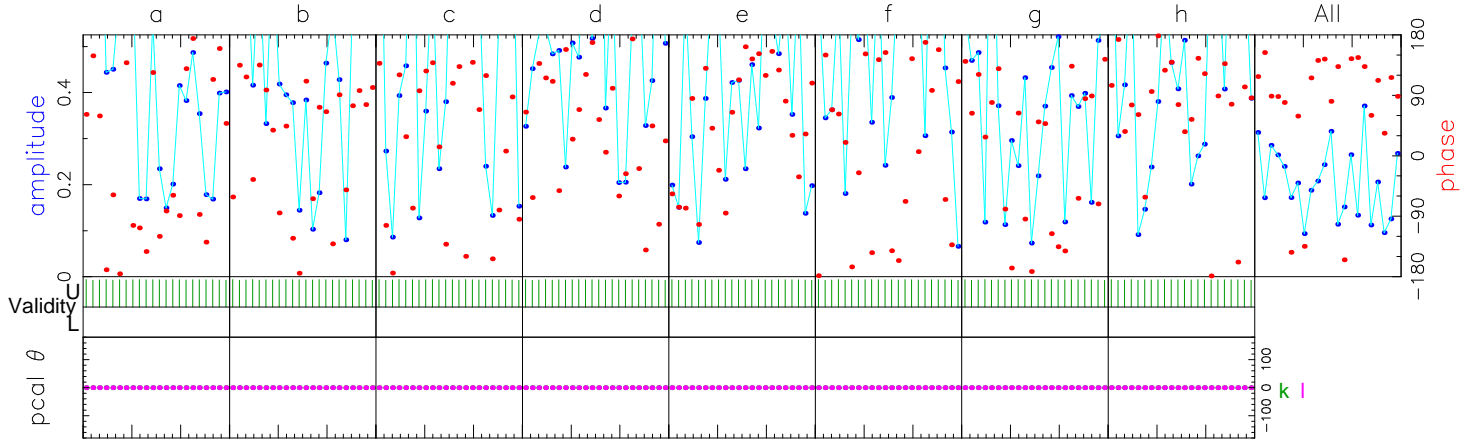
Fringe quality 0

SNR 5.8
 Int time 178.118
 Amp 0.175
 Phase 115.9
 PFD 6.0e-01
 Delays (us)
 SBD 0.722504
 MBD -0.007892
 Fringe rate (Hz)
 -0.476485
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060638
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:l	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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.32712030537E+03									
Sband delay (usec)	-1.32712428444E+03									
Phase delay (usec)	-1.32784678478E+03									
Delay rate (us/s)	1.05634399311E-01									
Total phase (deg)			-91.3							
Apriori delay (usec)					-1.32784678844E+03				-7.89193E-03	+/- 1.9E-04
Apriori clock (usec)					7.6341724E-01				7.22504E-01	+/- 1.5E-03
Apriori clockrate (us/s)					1.9999998E-07				3.65942E-06	+/- 6.3E-07
Apriori rate (us/s)					1.05639817603E-01				-5.41829E-06	+/- 6.0E-09
Apriori accel (us/s/s)					5.27107123950E-06				115.9	+/- 19.8
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										
PC period (AP's) 5, 5										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00
PC phase										
Mani PC										
PC amp										
Chan ids										
Tracks										
Chan ids										
Tracks										
ph/seg (deg)	49.2	46.5								
amp/seg (%)	57.2	81.1								
ph/frq (deg)	35.8	28.0								
amp/frq (%)	44.0	48.9								
Search (1024X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
0.175 +/- 0.030										
0.155										
0.000										
0.172										
0.179										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
SampCntNorm: enabled										
nlags: 256										
t_cohere infinite										
simultaneous interpolator										

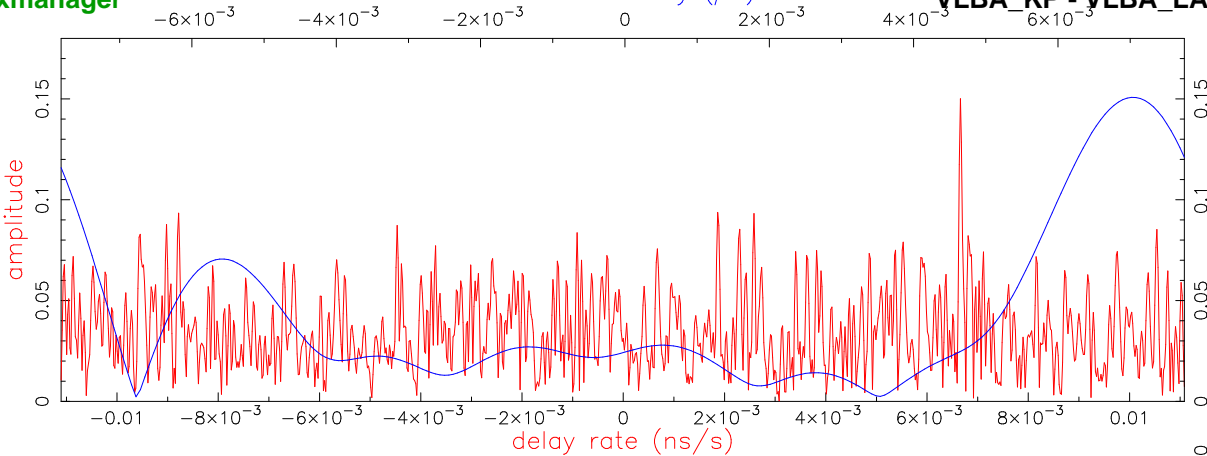
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, kl

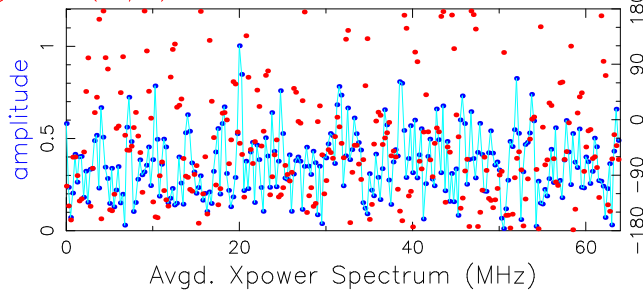
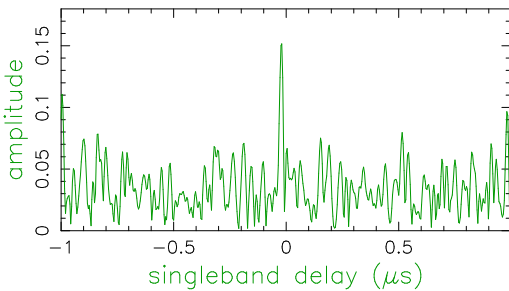
VLBA_KP - VLBA_LA, fgroup W, pol RL

multiband delay (μ s)



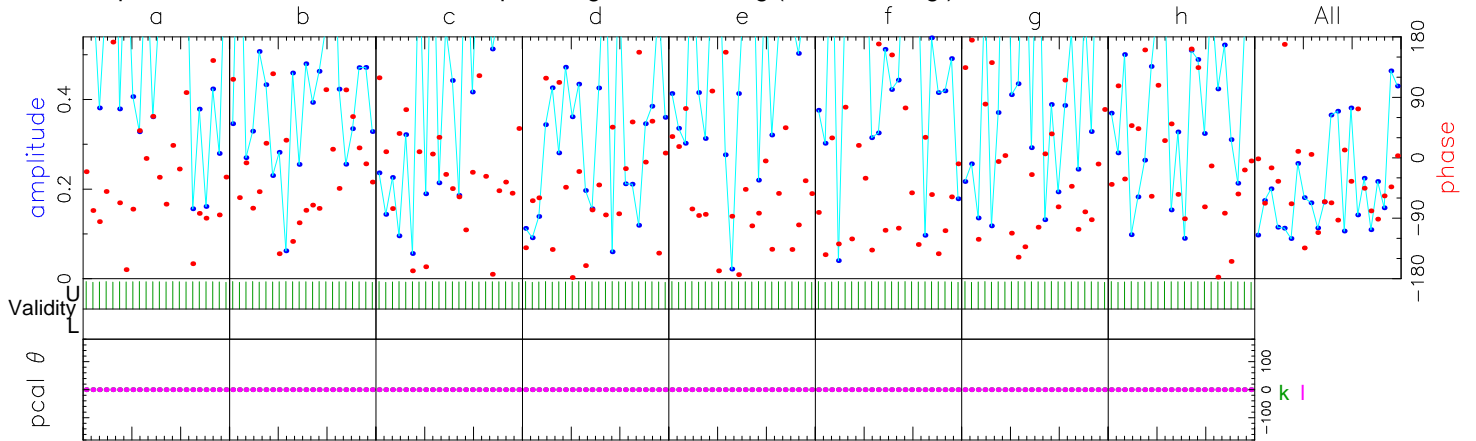
Fringe quality 0

SNR 5.6
 Int time 178.117
 Amp 0.180
 Phase -45.6
 PFD 8.8e-01
 Delays (us)
 SBD -0.021250
 MBD 0.007146
 Fringe rate (Hz)
 0.586608
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060640
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:l	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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.32787089215E+03	Apriori delay (usec)	-1.32784678844E+03	Resid mbdelay (usec)	7.14630E-03	+/-	1.9E-04
Sband delay (usec)	-1.32786803819E+03	Apriori clock (usec)	7.6341724E-01	Resid sbdelay (usec)	-2.12498E-02	+/-	1.5E-03
Phase delay (usec)	-1.32784678988E+03	Apriori clockrate (us/s)	1.9999998E-07	Resid phdelay (usec)	-1.44092E-06	+/-	6.4E-07
Delay rate (us/s)	1.05646488151E-01	Apriori rate (us/s)	1.05639817603E-01	Resid rate (us/s)	6.67055E-06	+/-	6.2E-09
Total phase (deg)	-252.8	Apriori accel (us/s/s)	5.27107123950E-06	Resid phase (deg)	-45.6	+/-	20.3

ph/seg (deg)	56.0	Theor.	47.7	Amplitude	0.180 +/- 0.032	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	82.2		83.2	Search (1024X32)	0.148	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	23.7		28.8	Inc. seg. avg.	0.183	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	26.8		50.2	Inc. frq. avg.	0.166	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

k: az 89.2 el 31.5 pa -62.3 l: az 94.8 el 35.9 pa -57.5 u,v (fr/asec) -641.470 -351.953 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/kl..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/kl.W.154.1JFKZ

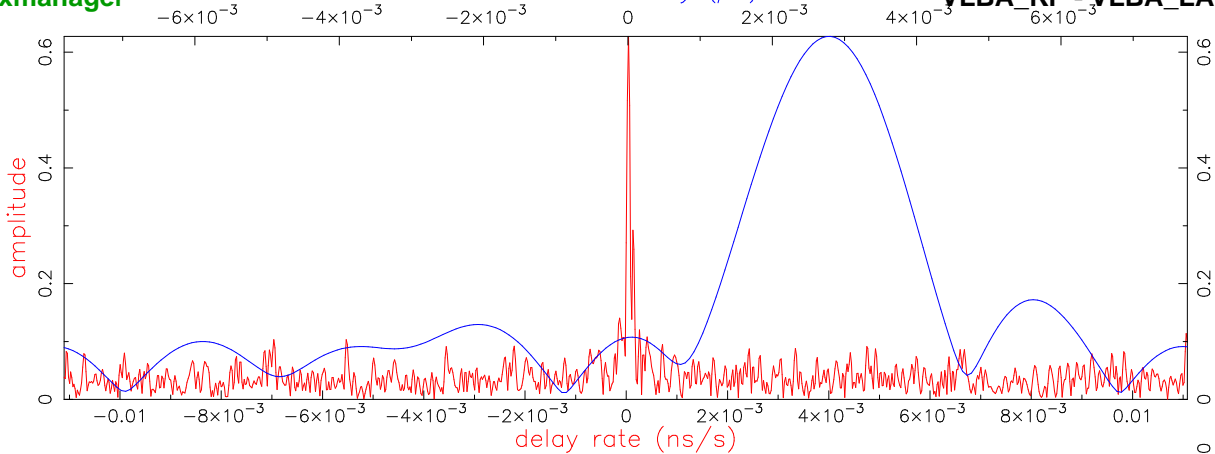
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, kl

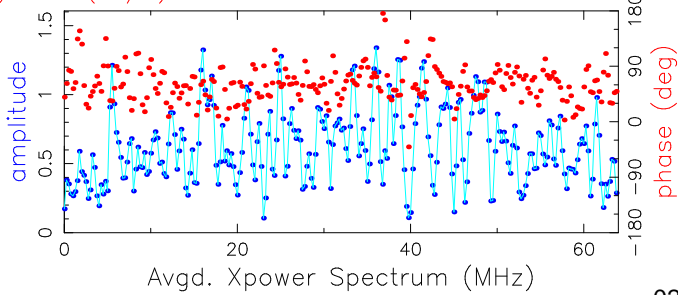
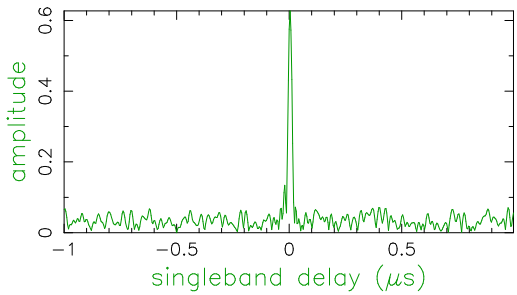
VLBA_KP - VLBA_LA, fgroup W, pol LL

multiband delay (μ s)



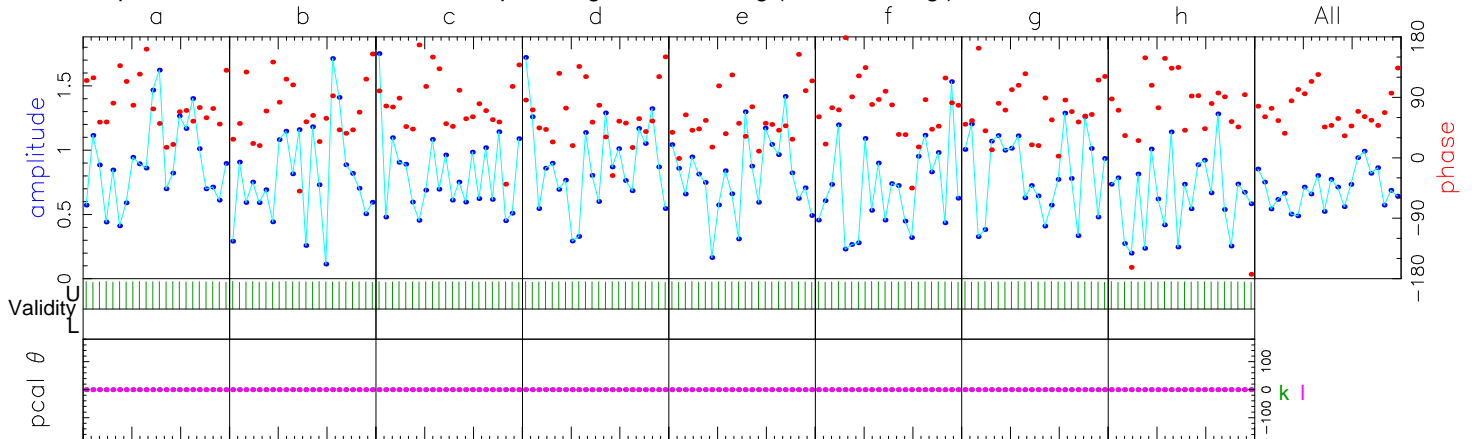
Fringe quality 9

SNR 22.9
 Int time 178.118
 Amp 0.627
 Phase 70.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.003845
 MBD 0.002786
 Fringe rate (Hz) 0.003590
 Ion TEC 0.000
 Ref freq (MHz) 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060635
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:l	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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.32784400255E+03	Apriori delay (usec)	-1.32784678844E+03	Resid mbdelay (usec)	2.78589E-03	+/-	4.7E-05
Sband delay (usec)	-1.32784294394E+03	Apriori clock (usec)	7.6341724E-01	Resid sbdelay (usec)	3.84450E-03	+/-	3.8E-04
Phase delay (usec)	-1.32784678621E+03	Apriori clockrate (us/s)	1.9999998E-07	Resid phdelay (usec)	2.23380E-06	+/-	1.6E-07
Delay rate (us/s)	1.05639858428E-01	Apriori rate (us/s)	1.05639817603E-01	Resid rate (us/s)	4.08257E-08	+/-	1.5E-09
Total phase (deg)	-136.5	Apriori accel (us/s/s)	5.27107123950E-06	Resid phase (deg)	70.7	+/-	5.0

ph/seg (deg)	27.5	Theor.	11.7	Amplitude	0.627 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	24.9		20.5	Search (1024X32)	0.620	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	12.2		7.1	Inc. seg. avg.	0.687	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	12.2		12.4	Inc. frq. avg.	0.633	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

k: az 89.2 el 31.5 pa -62.3 l: az 94.8 el 35.9 pa -57.5 u,v (fr/asec) -641.470 -351.953 simultaneous interpolator

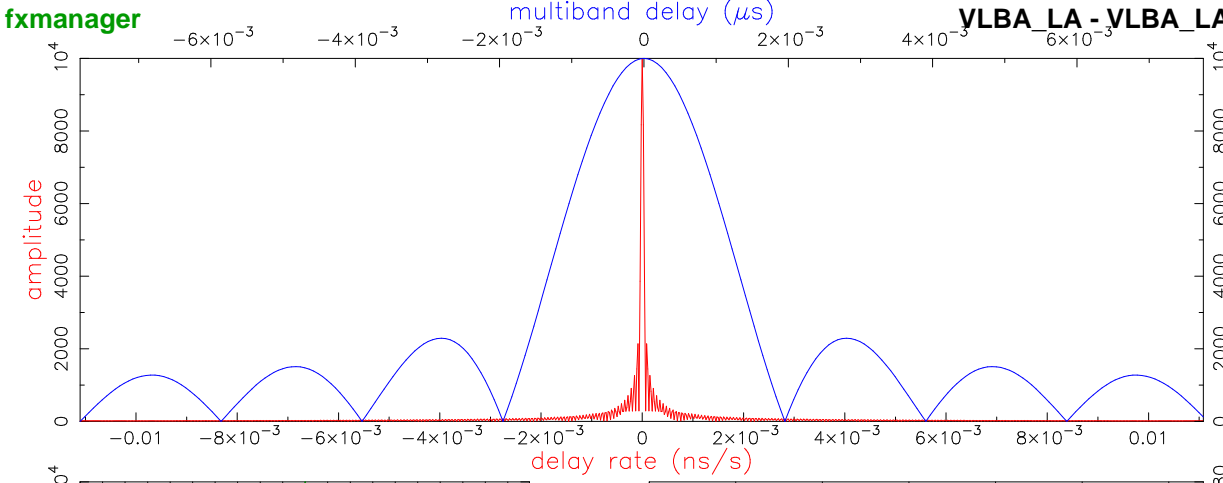
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/kl..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/kl.W.99.1JFKZ

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

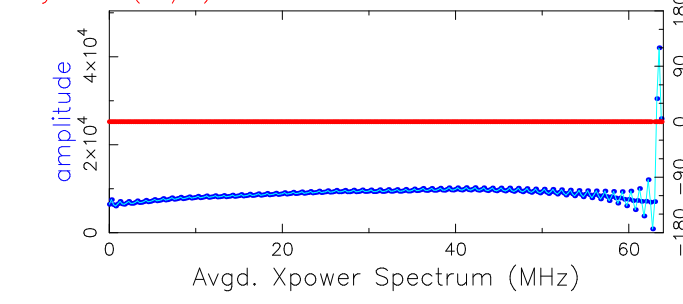
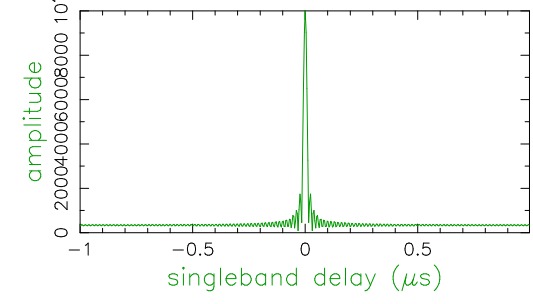
0235+164.1JFKZ, No0038, II

VLBA_LA - VLBA_LA, fgroup W, pol LL



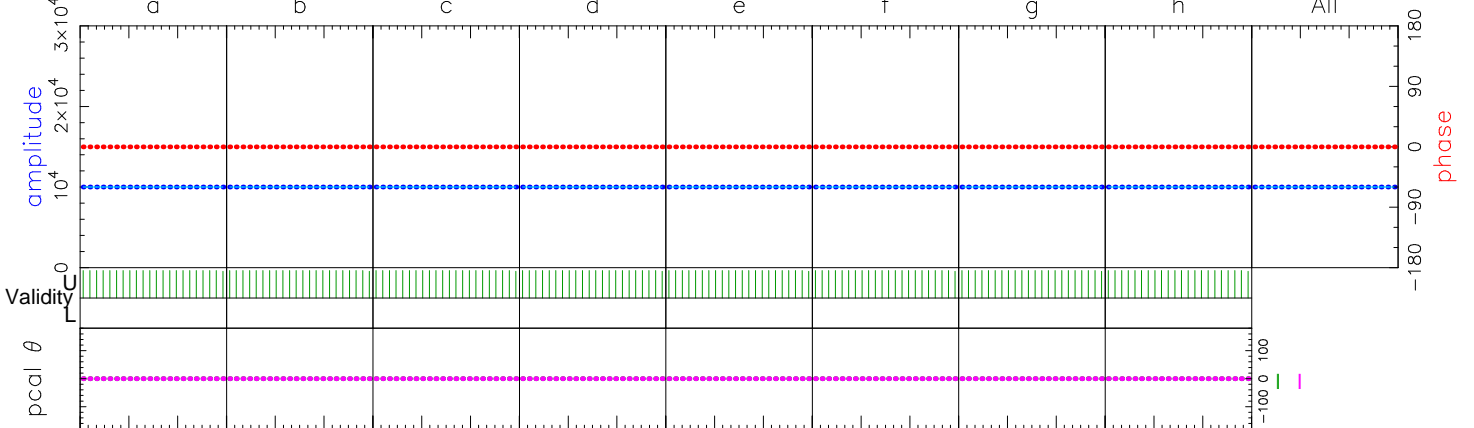
Fringe quality 9

SNR 366869.1
 Int time 179.981
 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 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060639
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	10000.0
	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 3.0E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 2.3E-08
 Phase delay (usec) 0.0000000000E+00 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 0.00000E+00 +/- 9.9E-12
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 9.5E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

RMS Theor. Amplitude 10000.000 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 94.8 el 35.9 pa -57.5 i: az 94.8 el 35.9 pa -57.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/II..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/II.W.145.1JFKZ

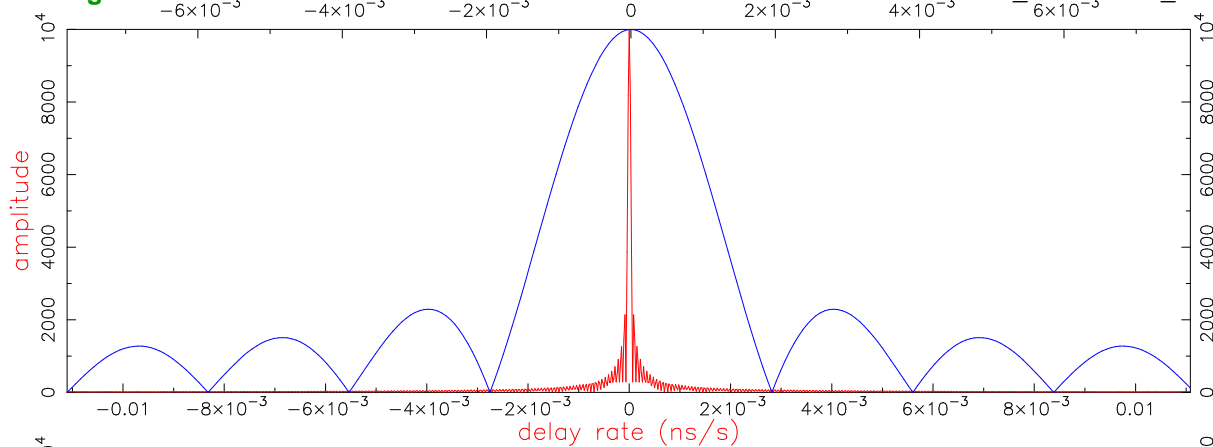
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, II

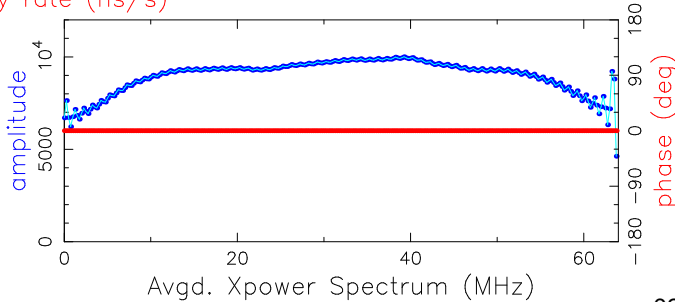
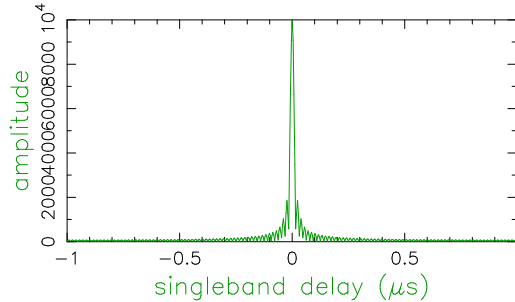
VLBA_LA - VLBA_LA, fgroup W, pol RR

multiband delay (μ s)



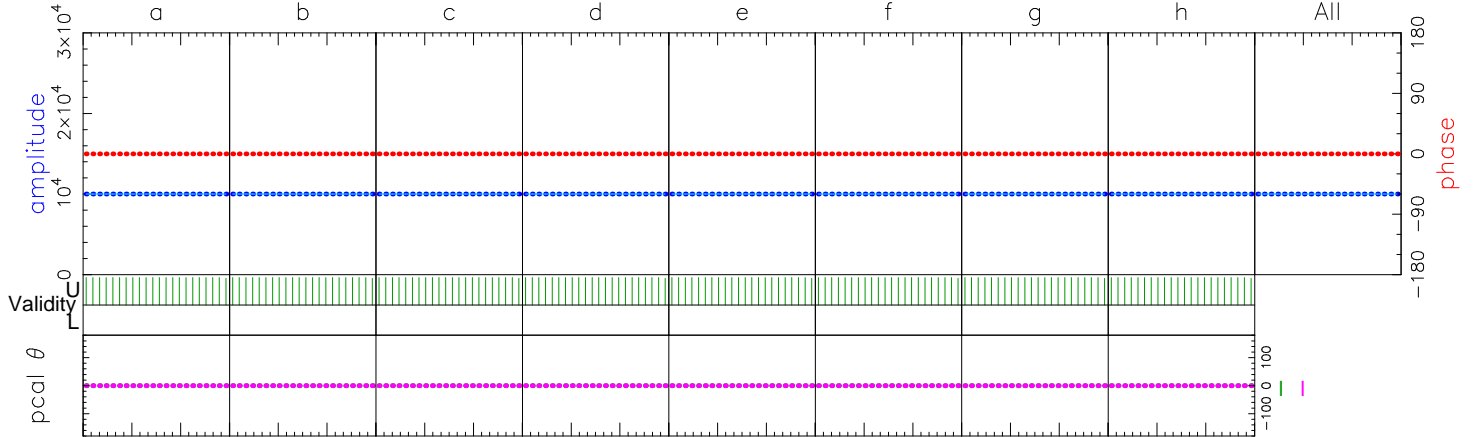
Fringe quality 9

SNR 366869.1
 Int time 179.981
 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
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060641
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	Ampl.	10000.0
	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 3.0E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 2.3E-08
 Phase delay (usec) 0.0000000000E+00 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 0.00000E+00 +/- 9.9E-12
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 9.5E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

RMS Theor. Amplitude 10000.000 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 94.8 el 35.9 pa -57.5 i: az 94.8 el 35.9 pa -57.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/II..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/II.W.163.1JFKZ

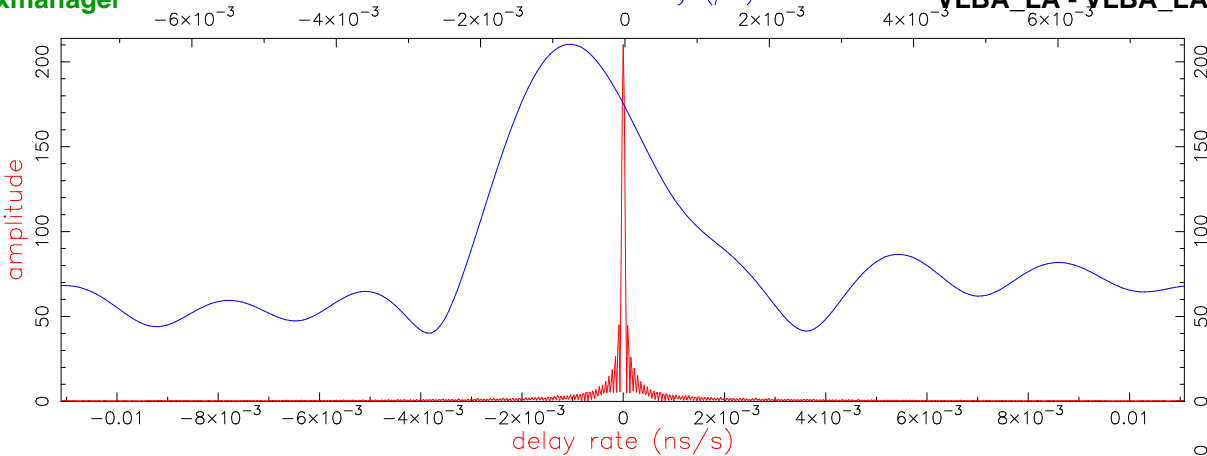
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, II

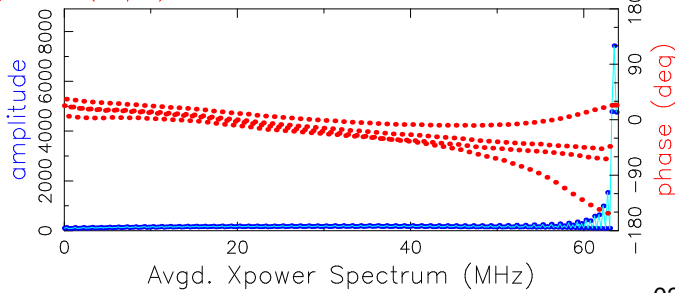
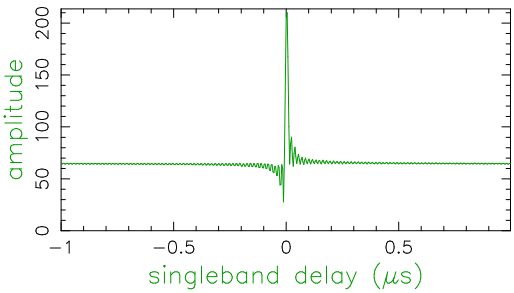
VLBA_LA - VLBA_LA, fgroup W, pol LR

multiband delay (μ s)



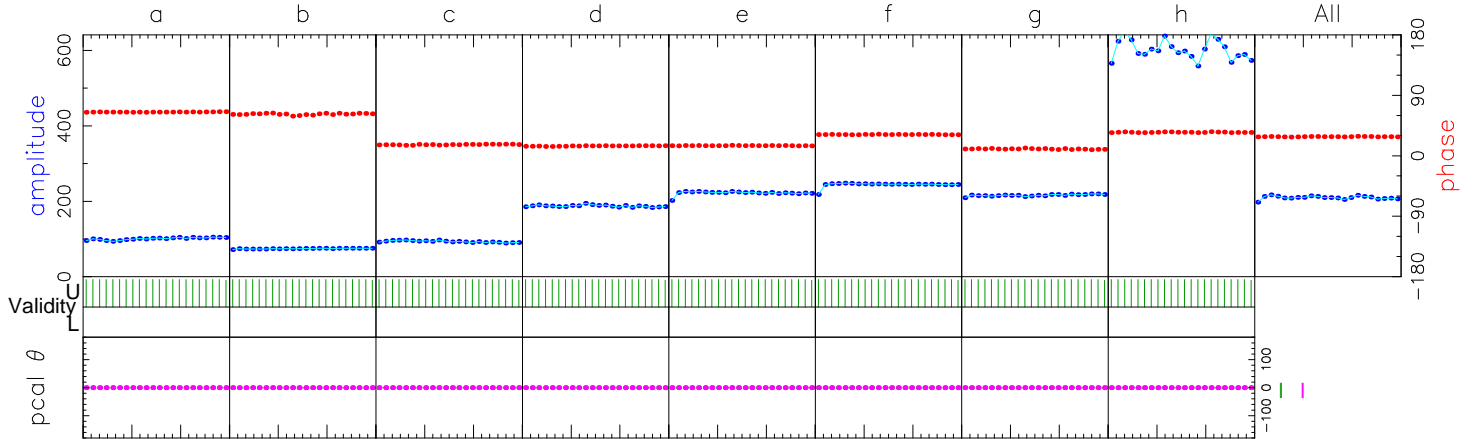
Fringe quality 5

SNR 7844.2
 Int time 179.981
 Amp 213.815
 Phase 28.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.002435
 MBD -0.000696
 Fringe rate (Hz)
 -0.000014
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060643
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
	1000	1000	1000	1000	1000	1000	1000	1000		
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -6.95812500000E-04 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) -6.95813E-04 +/- 1.4E-07
 Sband delay (usec) 2.43450000000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 2.43450E-03 +/- 1.1E-06
 Phase delay (usec) 8.98299556090E-07 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 8.98300E-07 +/- 4.6E-10
 Delay rate (us/s) -1.54080100568E-10 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -1.54080E-10 +/- 4.4E-12
 Total phase (deg) 28.4 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 28.4 +/- 0.0

RMS Theor. Amplitude 213.815 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.3 0.0 Search (1024X32) 206.812 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 2.6 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 23.7 0.0 Inc. seg. avg. 210.063 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 73.8 0.0 Inc. frq. avg. 217.702 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 94.8 el 35.9 pa -57.5 i: az 94.8 el 35.9 pa -57.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/II..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/II.W.171.1JFKZ

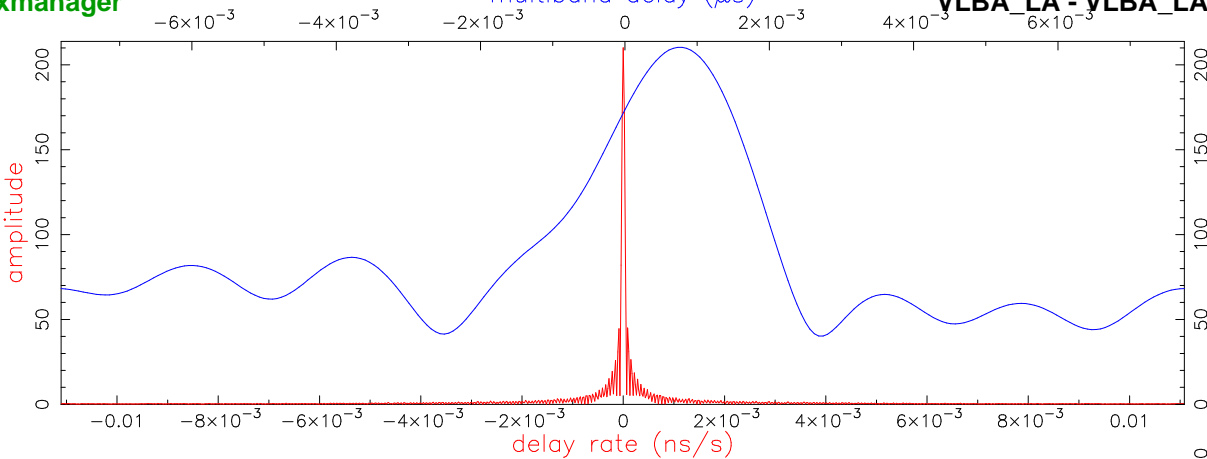
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, II

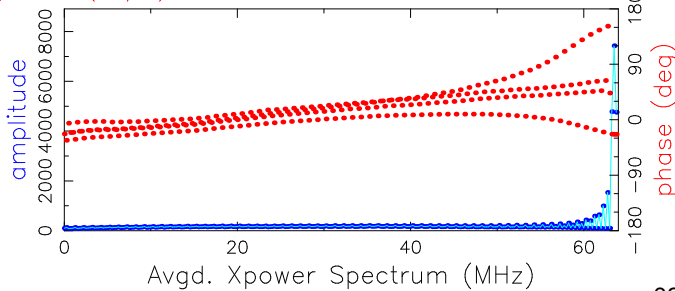
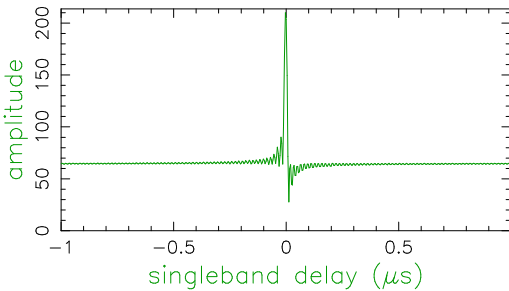
VLBA_LA - VLBA_LA, fgroup W, pol RL

multiband delay (μ s)



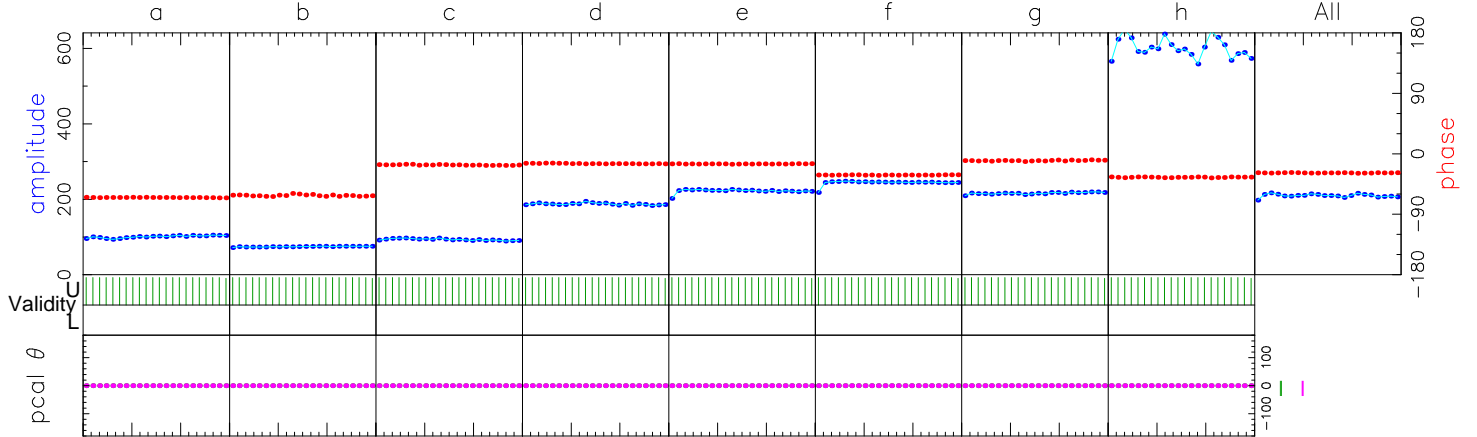
Fringe quality 5

SNR 7844.2
 Int time 179.981
 Amp 213.815
 Phase -28.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.002435
 MBD 0.000696
 Fringe rate (Hz)
 0.000014
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060645
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

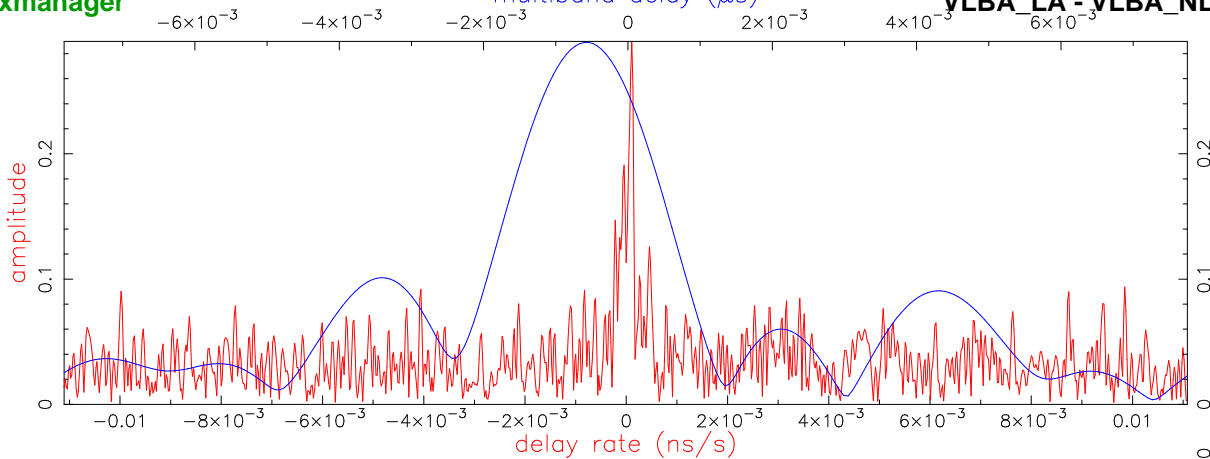
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



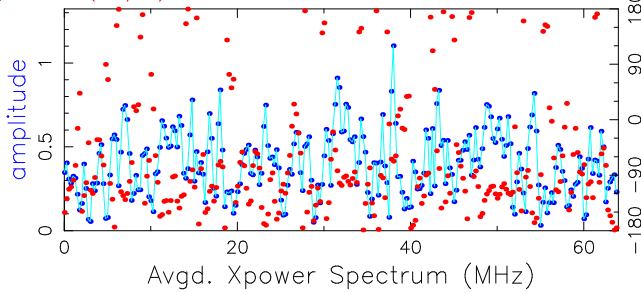
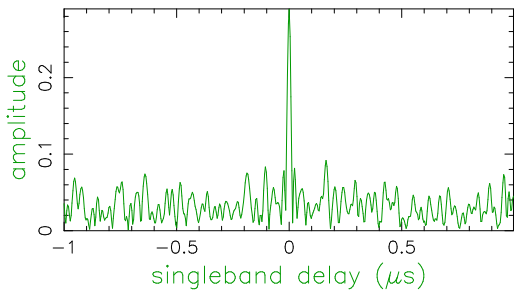
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All	
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0			
	1000	1000	1000	1000	1000	1000	1000	1000	APs used		
!:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs		
!:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC		
	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids		
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks		
Group delay (usec)(sbd)	6.95812500000E-04								6.95813E-04	+/- 1.4E-07	
Sband delay (usec)	-2.43450000000E-03								-2.43450E-03	+/- 1.1E-06	
Phase delay (usec)	-8.98299556129E-07								-8.98300E-07	+/- 4.6E-10	
Delay rate (us/s)	1.54080100568E-10								1.54080E-10	+/- 4.4E-12	
Total phase (deg)			-28.4						-28.4	+/- 0.0	
ph/seg (deg)	0.3	0.0									
amp/seg (%)	2.6	0.1									
ph/frq (deg)	23.7	0.0									
amp/frq (%)	73.8	0.0									
RMS		Theor.		Amplitude		213.815 +/- 0.027		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5	
I: az 94.8 el 35.9 pa -57.5		I: az 94.8 el 35.9 pa -57.5		u, v (fr/asec) 0.000 0.000				Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us) -1.000 1.000	
Control file: cf_1234_88GHz_gmva		Input file: /Exps/c202c/v1/1234/No0038/II..1JFKZ		Output file: /Exps/c202c/v1/1234/No0038/II.W.184.1JFKZ				Bits/sample: 2x2		SampCntNorm: enabled	
								Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011	
								Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite	
										ion window (TEC) 0.00 0.00	
										simultaneous interpolator	

multiband delay (μ s)

Fringe quality 9

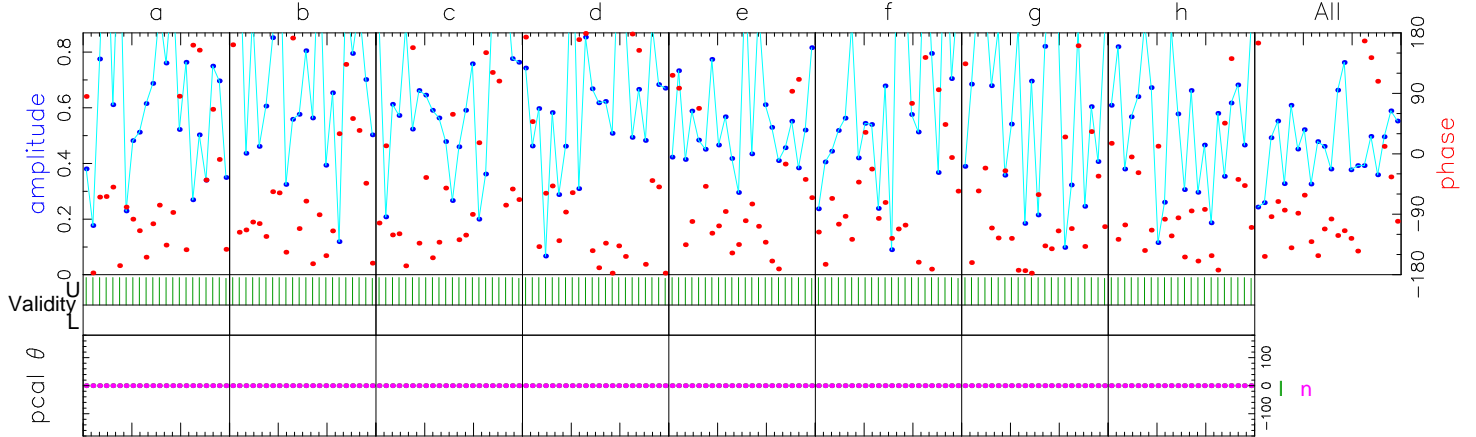


SNR 10.6
Int time 179.978
Amp 0.290
Phase -113.7
PFD 4.8e-18
Delays (us)
SBD -0.000635
MBD -0.000591
Fringe rate (Hz)
0.008713
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512



Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 043000.00
Stop 043300.22
FRT 043130.00
Corr/FF/build
2021:039:055416
2021:039:060641
2020:247:085004
RA & Dec (J2000)
02h38m38.930107s
+16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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
	-103.7	-108.5	-120.0	-137.8	-110.1	-95.6	-122.9	-100.5	Phase	-113.7
	0.3	0.3	0.3	0.4	0.2	0.2	0.3	0.3	Ampl.	0.3
	256.9	256.9	256.5	257.0	60.5	434.9	257.1	256.4	Sbd box	256.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

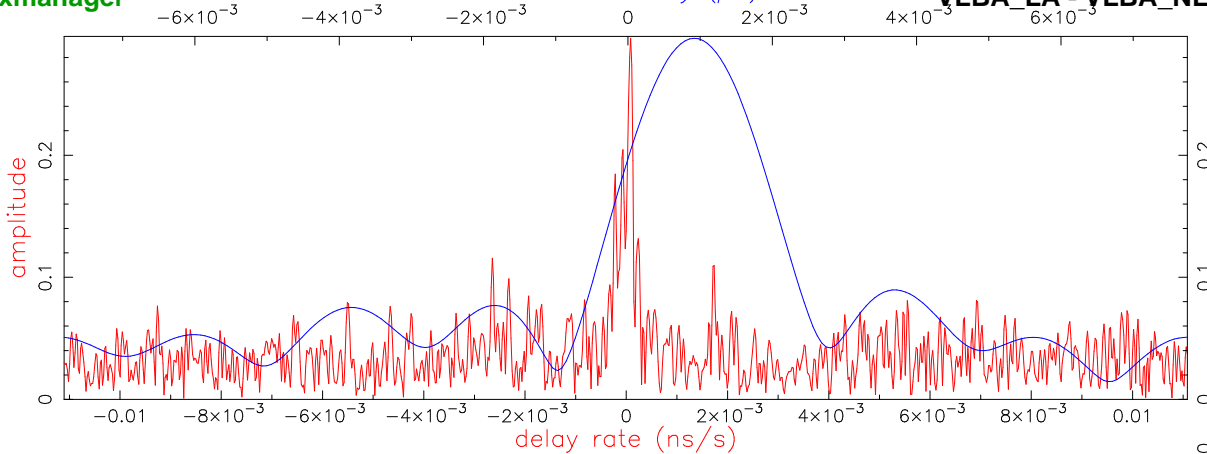
Group delay (usec)(sbd)	-2.73930487180E+03	Apriori delay (usec)	-2.73930428122E+03	Resid mbdelay (usec)	-5.90580E-04	+/-	1.0E-04
Sband delay (usec)	-2.73930491572E+03	Apriori clock (usec)	-6.4925385E-01	Resid sbdelay (usec)	-6.34500E-04	+/-	8.1E-04
Phase delay (usec)	-2.73930428481E+03	Apriori clockrate (us/s)	-6.0000003E-07	Resid phdelay (usec)	-3.59231E-06	+/-	3.4E-07
Delay rate (us/s)	2.64835311924E-01	Apriori rate (us/s)	2.64835212849E-01	Resid rate (us/s)	9.90749E-08	+/-	3.3E-09
Total phase (deg)	-290.4	Apriori accel (us/s/s)	1.19229787559E-05	Resid phase (deg)	-113.7	+/-	10.8

ph/seg (deg)	59.0	Theor.	25.3	Amplitude	0.290 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	74.0		44.1	Search (1024X32)	0.280	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	15.0		15.2	Inc. seg. avg.	0.422	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	16.6		26.6	Inc. frq. avg.	0.287	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

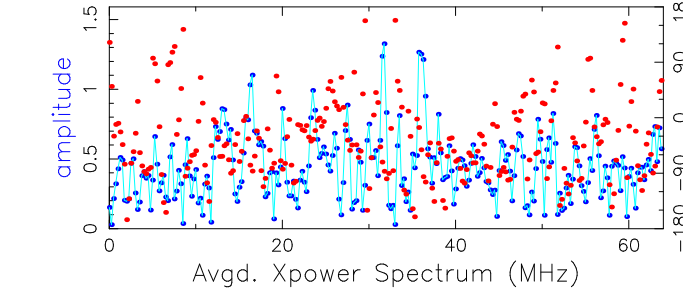
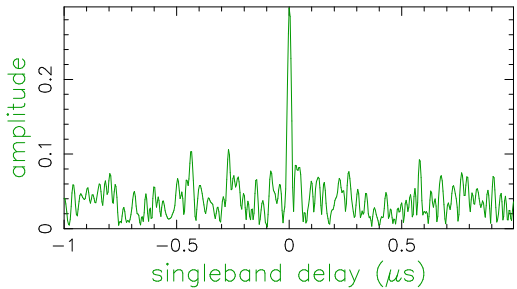
l: az 94.8 el 35.9 pa -57.5 n: az 111.3 el 45.7 pa -46.4 u,v (fr/asec) -1609.481 -417.346 simultaneous interpolator
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/in..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/in.W.165.1JFKZ

multiband delay (μ s)

Fringe quality 9

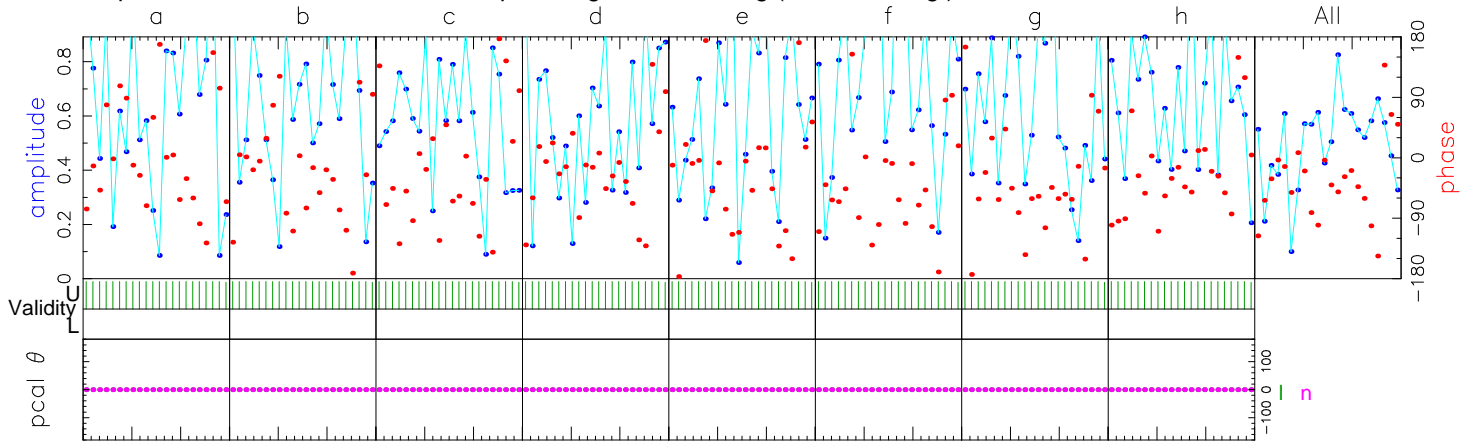


SNR 10.9
Int time 179.978
Amp 0.297
Phase -46.0
PFD 2.4e-19
Delays (us)
SBD 0.001005
MBD 0.000940
Fringe rate (Hz)
0.007425
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512



Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 043000.00
Stop 043300.22
FRT 043130.00
Corr/FF/build
2021:039:055416
2021:039:060643
2020:247:085004
RA & Dec (J2000)
02h38m38.930107s
+16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.73930334081E+03	-2.73930327622E+03	-2.73930428267E+03	-2.73930428122E+03	-2.73930428122E+03	-2.73930428122E+03	-2.73930428122E+03	-2.73930428122E+03	9.40411E-04	+/- 1.0E-04
Sband delay (usec)	-2.73930327622E+03	-2.73930327622E+03	-2.73930428267E+03	-2.73930428122E+03	-2.73930428122E+03	-2.73930428122E+03	-2.73930428122E+03	-2.73930428122E+03	1.00500E-03	+/- 7.9E-04
Phase delay (usec)	-2.73930428267E+03	-2.73930428267E+03	-2.73930428267E+03	-2.73930428122E+03	-2.73930428122E+03	-2.73930428122E+03	-2.73930428122E+03	-2.73930428122E+03	-1.45212E-06	+/- 3.3E-07
Delay rate (us/s)	2.64835297285E-01	2.64835297285E-01	2.64835297285E-01	2.64835297285E-01	2.64835297285E-01	2.64835297285E-01	2.64835297285E-01	2.64835297285E-01	8.44359E-08	+/- 3.2E-09
Total phase (deg)			-222.6						-46.0	+/- 10.5
	RMS	Theor.	Amplitude	0.297 +/- 0.027					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	62.0	24.6	Search (1024X32)	0.295					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	86.6	43.0	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	15.1	14.9	Inc. seg. avg.	0.459					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	21.7	25.9	Inc. frq. avg.	0.293					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
									nlags: 256	t_cohere infinite

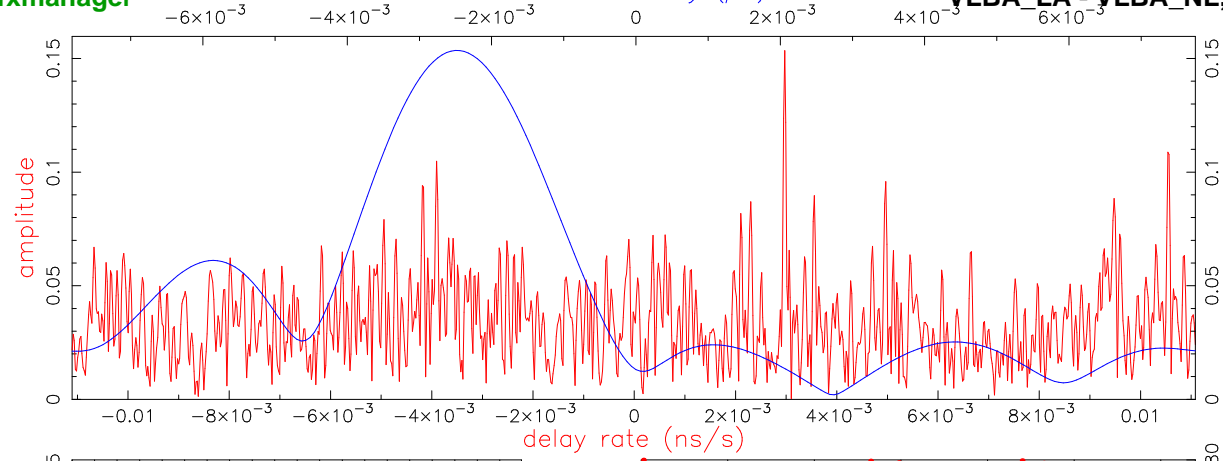
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, In

VLBA_LA - VLBA_NL, fgroup W, pol LR

multiband delay (μ s)



Fringe quality 0

SNR 5.7

Int time 179.978

Amp 0.160

Phase 137.2

PFD 7.9e-01

Delays (us)

SBD 0.063850

MBD -0.002438

Fringe rate (Hz)

0.262263

Ion TEC 0.000

Ref freq (MHz)

87940.0000

AP (sec) 0.512

Exp. c202c

Exper # 16383

Yr:day 2020:286

Start 043000.00

Stop 043300.22

FRT 043130.00

Corr/FF/build

2021:039:055416

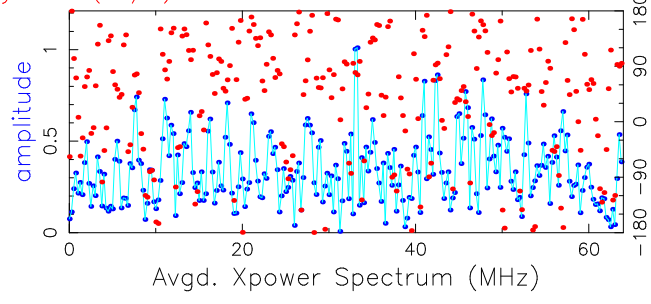
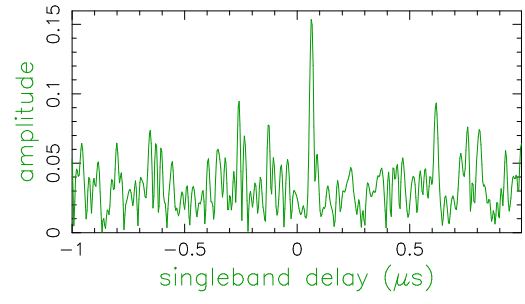
2021:039:060645

2020:247:085004

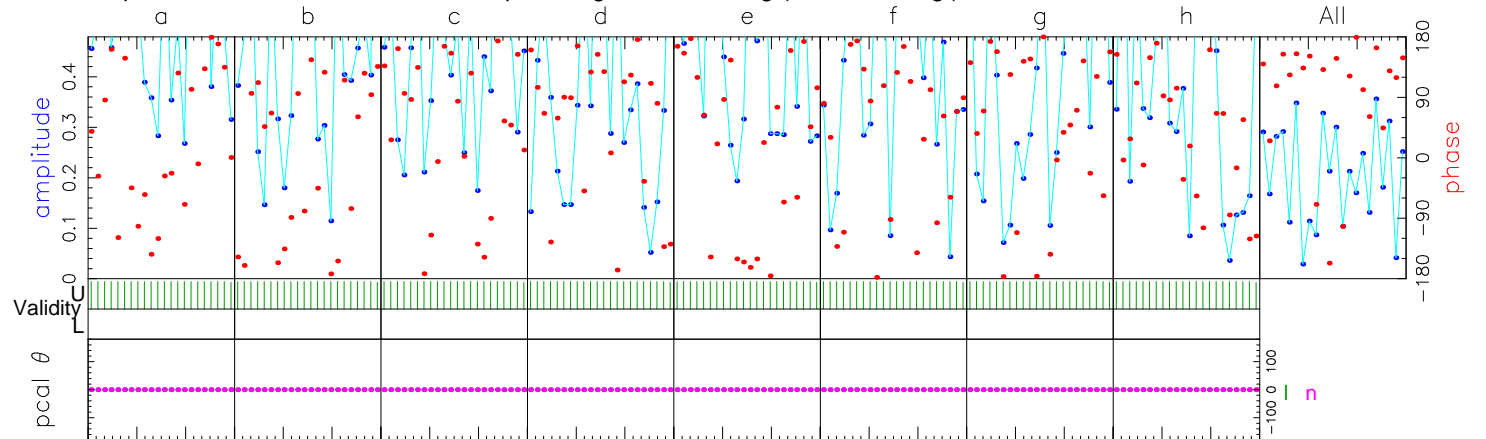
RA & Dec (J2000)

02h38m38.930107s

+16°36'59.274536"



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-2.73924421934E+03									
Sband delay (usec)	-2.73924043147E+03									
Phase delay (usec)	-2.73930427689E+03									
Delay rate (us/s)	2.64838195141E-01									
Total phase (deg)			-39.4							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									137.2	+/- 20.1
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										
PCal period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
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										
PCal period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 58.8 47.2 Search (1024X32) 0.147 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 71.8 82.5 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 25.0 28.5 Inc. seg. avg. 0.160 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 44.2 49.7 Inc. frq. avg. 0.147 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 94.8 el 35.9 pa -57.5 n: az 111.3 el 45.7 pa -46.4 u,v (fr/asec) -1609.481 -417.346 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/n..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/n.W.190.1JFKZ

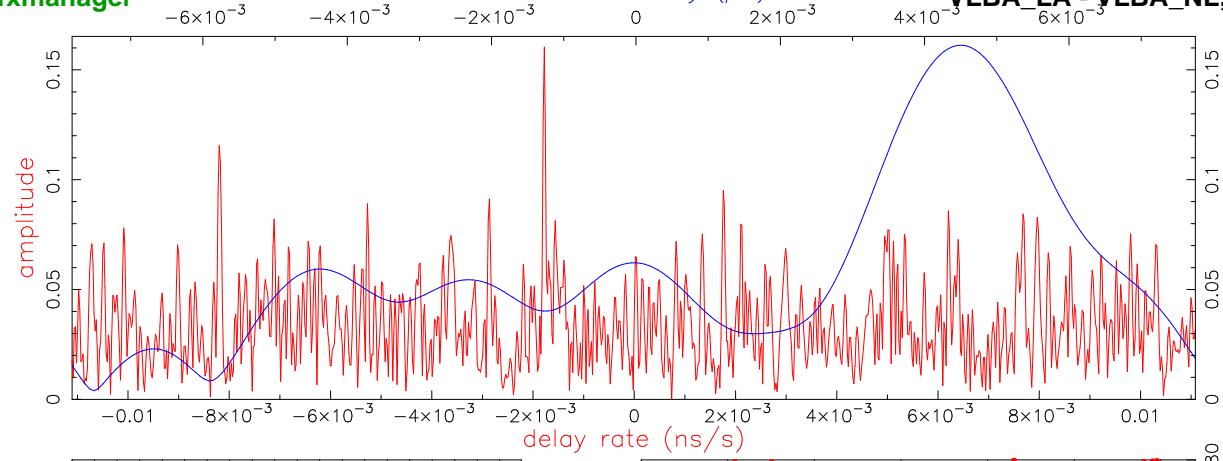
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, In

VLBA_LA - VLBA_NL, fgroup W, pol RL

multiband delay (μ s)



Fringe quality 0

SNR 6.0

Int time 179.978

Amp 0.165

Phase -16.1

PFD 2.3e-01

Delays (us)

SBD -0.607208

MBD 0.004371

Fringe rate (Hz)

-0.155814

Ion TEC 0.000

Ref freq (MHz)

87940.0000

AP (sec) 0.512

Exp. c202c

Exper # 16383

Yr:day 2020:286

Start 043000.00

Stop 043300.22

FRT 043130.00

Corr/FF/build

2021:039:055416

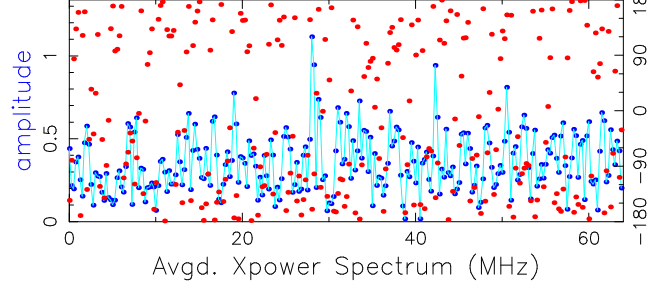
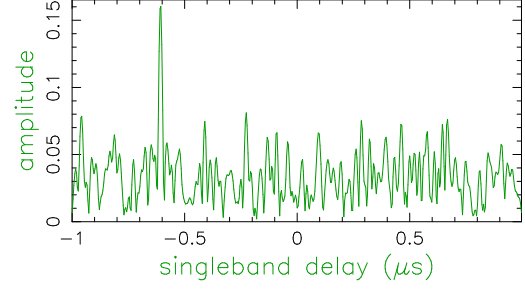
2021:039:060647

2020:247:085004

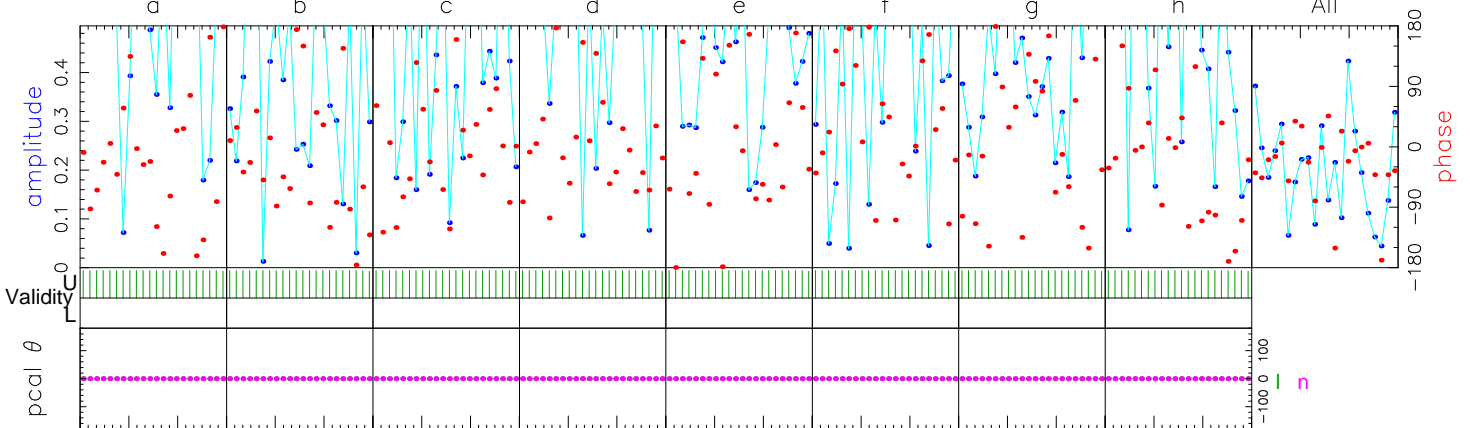
RA & Dec (J2000)

02h38m38.930107s

+16°36'59.274536"

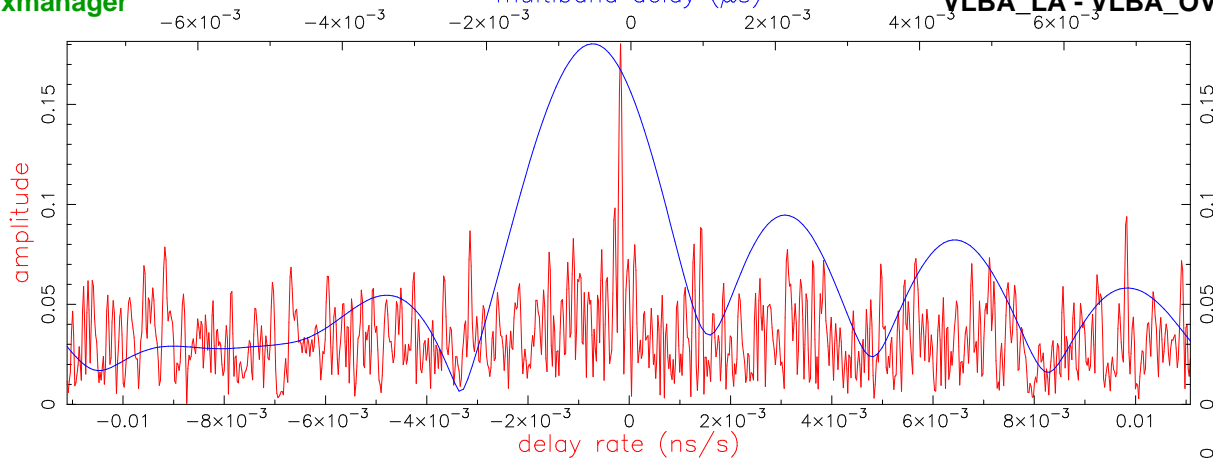


Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



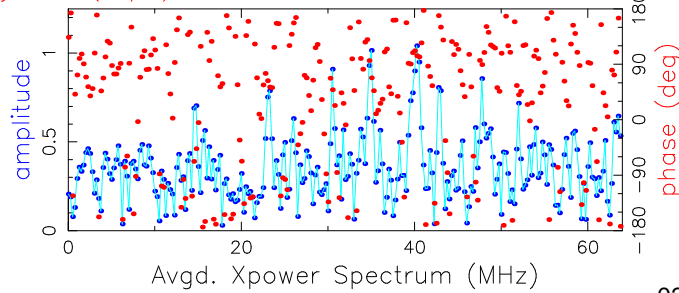
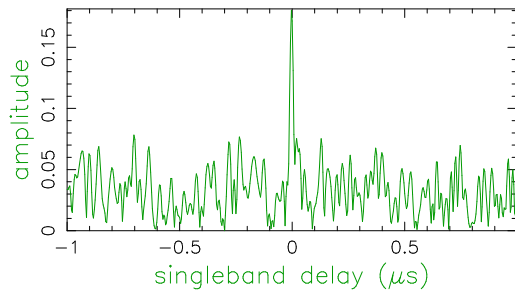
	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-2.73990928496E+03				-2.73930428122E+03				4.37126E-03	+/- 1.8E-04
Sband delay (usec)	-2.73991148947E+03				-6.4925385E-01				-6.07208E-01	+/- 1.4E-03
Phase delay (usec)	-2.73930428173E+03				-6.0000003E-07				-5.08906E-07	+/- 6.0E-07
Delay rate (us/s)	2.64833441022E-01				2.64835212849E-01				-1.77183E-06	+/- 5.8E-09
Total phase (deg)			-192.8		1.19229787559E-05				-16.1	+/- 19.1
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)										
PC period (AP's) 5, 5										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00
ph/seg (deg)	53.1	44.8		Search (1024X32)	0.156					
amp/seg (%)	65.6	78.2		Interp.	0.000					
ph/frq (deg)	57.5	27.0		Inc. seg. avg.	0.156					
amp/frq (%)	57.7	47.2		Inc. frq. avg.	0.160					
l: az 94.8 el 35.9 pa -57.5				n: az 111.3 el 45.7 pa -46.4						
				u,v (fr/asec)	-1609.481	-417.346				
Control file: cf_1234_88GHz_gmva				Input file: /Exps/c202c/v1/1234/No0038/in..1JFKZ						
				Output file: /Exps/c202c/v1/1234/No0038/in.W.206.1JFKZ						
										simultaneous interpolator

multiband delay (μ s)



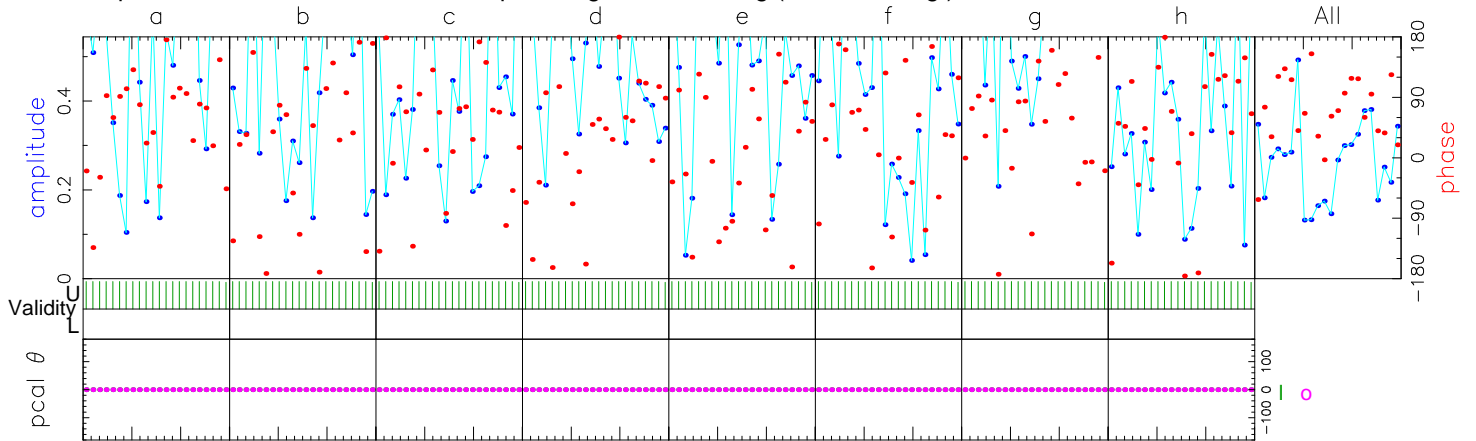
Fringe quality 0

SNR 6.7
Int time 179.981
Amp 0.182
Phase 73.5
PFD 4.0e-03
Delays (us)
SBD -0.002892
MBD -0.000500
Fringe rate (Hz)
-0.015755
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512



Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 043000.00
Stop 043300.22
FRT 043130.00
Corr/FF/build
2021:039:055416
2021:039:060642
2020:247:085004
RA & Dec (J2000)
02h38m38.930107s
+16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.05961465422E+03		Apriori delay (usec)		3.05961515432E+03		Resid mbdelay (usec)		-5.00103E-04	+/- 1.6E-04
Sband delay (usec)	3.05961226232E+03		Apriori clock (usec)		-2.1806000E+01		Resid sbdelay (usec)		-2.89200E-03	+/- 1.3E-03
Phase delay (usec)	3.05961515664E+03		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		2.32302E-06	+/- 5.4E-07
Delay rate (us/s)	-9.33223522389E-02		Apriori rate (us/s)		-9.33221730771E-02		Resid rate (us/s)		-1.79162E-07	+/- 5.2E-09
Total phase (deg)	315.0		Apriori accel (us/s/s)		-1.70453219296E-05		Resid phase (deg)		73.5	+/- 17.2

	RMS	Theor.	Amplitude	0.182 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	50.5	40.4	Search (1024X32)	0.178	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	68.4	70.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	28.0	24.3	Inc. seg. avg.	0.213	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	38.7	42.5	Inc. frq. avg.	0.179	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

l: az 94.8 el 35.9 pa -57.5 o: az 88.3 el 26.2 pa -56.2 u,v (fr/asec) 561.128 -586.908 simultaneous interpolator
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/lo..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/lo.W.167.1JFKZ

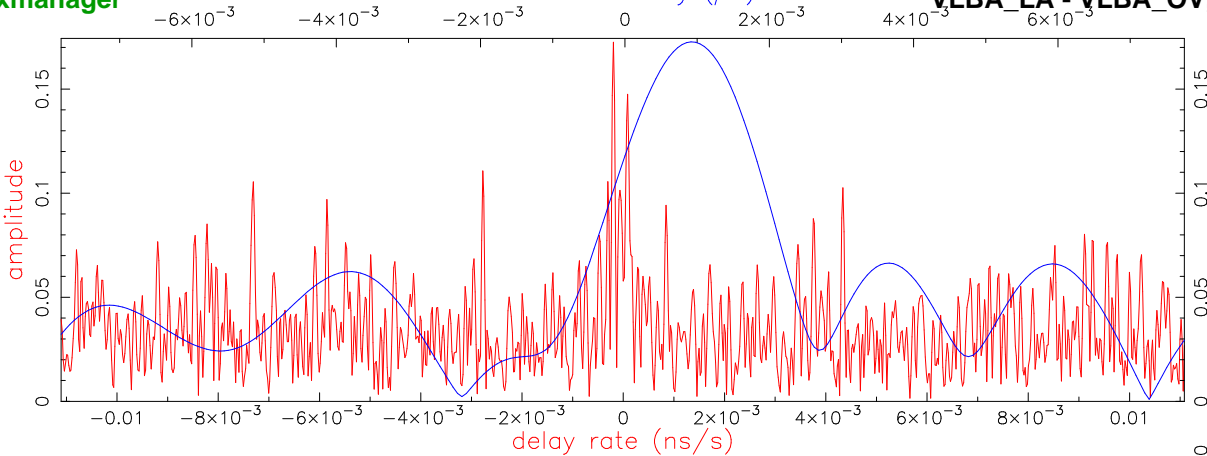
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, lo

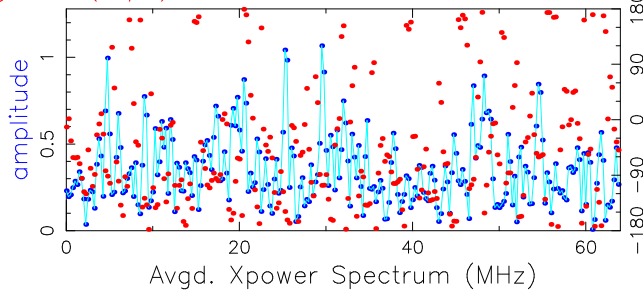
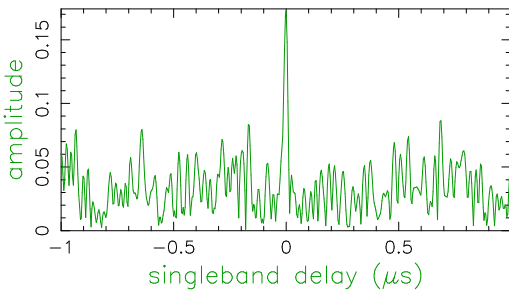
VLBA_LA - VLBA_OV, fgroup W, pol RR

multiband delay (μ s)



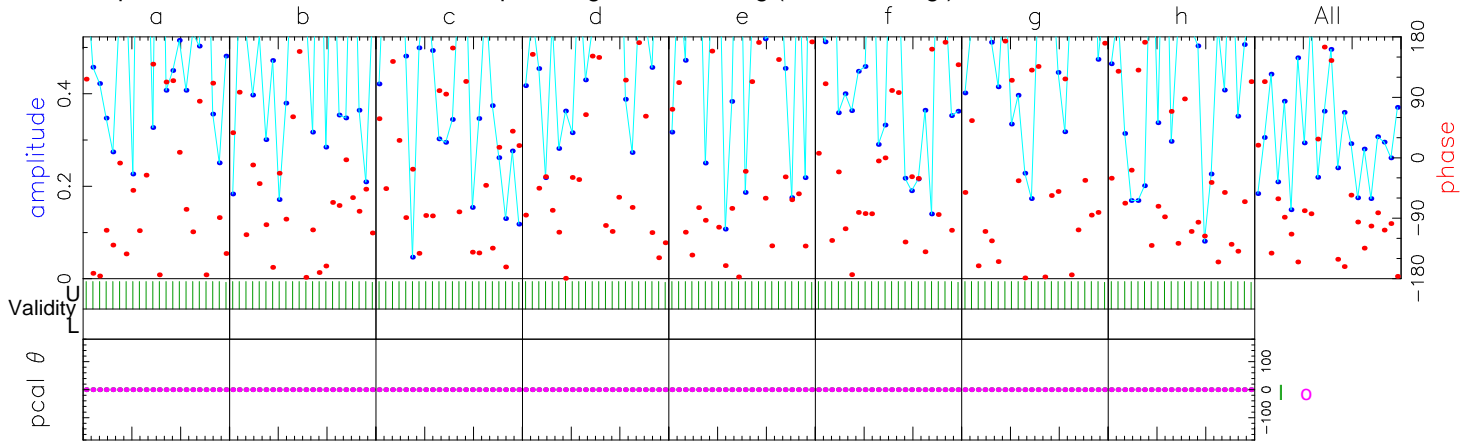
Fringe quality 0

SNR 6.4
 Int time 179.981
 Amp 0.174
 Phase -125.2
 PFD 2.2e-02
 Delays (us)
 SBD -0.001373
 MBD 0.000878
 Fringe rate (Hz)
 -0.016442
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060643
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

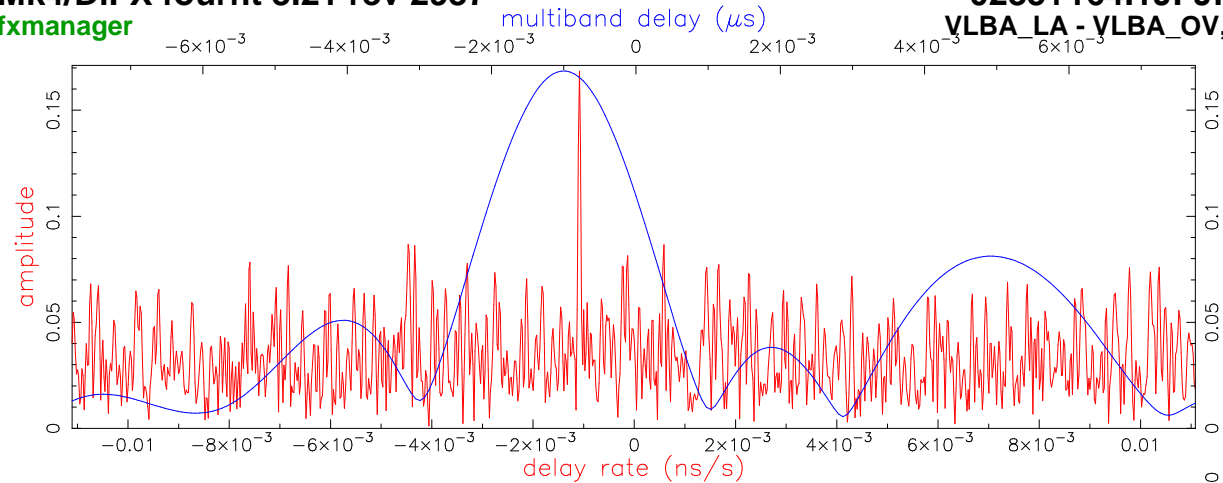
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All		
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0				
l	1000	1000	1000	1000	1000	1000	1000	1000				
o	1000	1000	1000	1000	1000	1000	1000	1000				
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0				
l:o	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				
o	1000	1000	1000	1000	1000	1000	1000	1000				
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR				
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR				
Group delay (usec)(sbd)	3.05961603255E+03		Apriori delay (usec)		3.05961515432E+03		Resid mbdelay (usec)		8.78232E-04	+/- 1.7E-04		
Sband delay (usec)	3.05961378107E+03		Apriori clock (usec)		-2.1806000E+01		Resid sbdelay (usec)		-1.37325E-03	+/- 1.3E-03		
Phase delay (usec)	3.05961515036E+03		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-3.95396E-06	+/- 5.7E-07		
Delay rate (us/s)	-9.33223600415E-02		Apriori rate (us/s)		-9.33221730771E-02		Resid rate (us/s)		-1.86964E-07	+/- 5.4E-09		
Total phase (deg)			Apriori accel (us/s/s)		-1.70453219296E-05		Resid phase (deg)		-125.2	+/- 17.9		
RMS	66.2	42.0	Amplitude		0.174 +/- 0.027		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	66.2	42.0	Search (1024X32)		0.169		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
amp/seg (%)	101.2	73.3	Interp.		0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008	
ph/frq (deg)	28.0	25.3	Inc. seg. avg.		0.245		Sample rate(MISamp/s): 128			dr window (ns/s)	-0.011 0.011	
amp/frq (%)	37.9	44.2	Inc. frq. avg.		0.167		Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

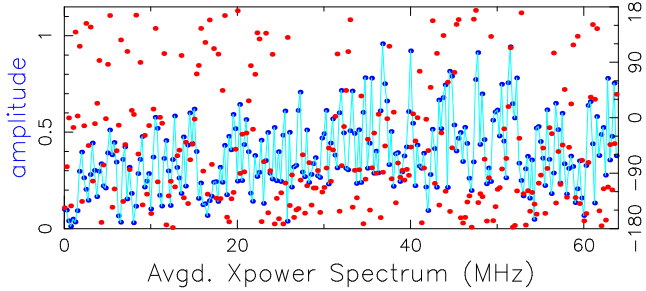
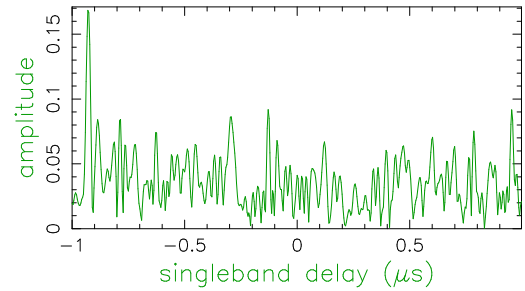
l: az 94.8 el 35.9 pa -57.5 o: az 88.3 el 26.2 pa -56.2 u,v (fr/asec) 561.128 -586.908 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/lo..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/lo.W.173.1JFKZ



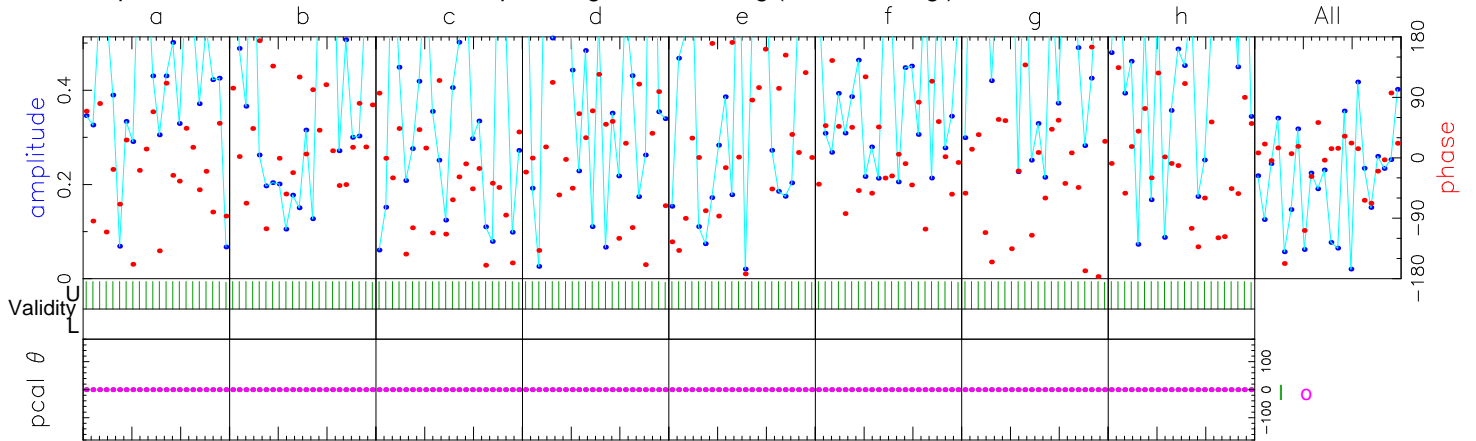
Fringe quality 0

SNR 6.3
Int time 179.981
Amp 0.171
Phase 7.3
PFD 5.3e-02
Delays (us)
SBD -0.928064
MBD -0.000963
Fringe rate (Hz)
-0.095897
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512

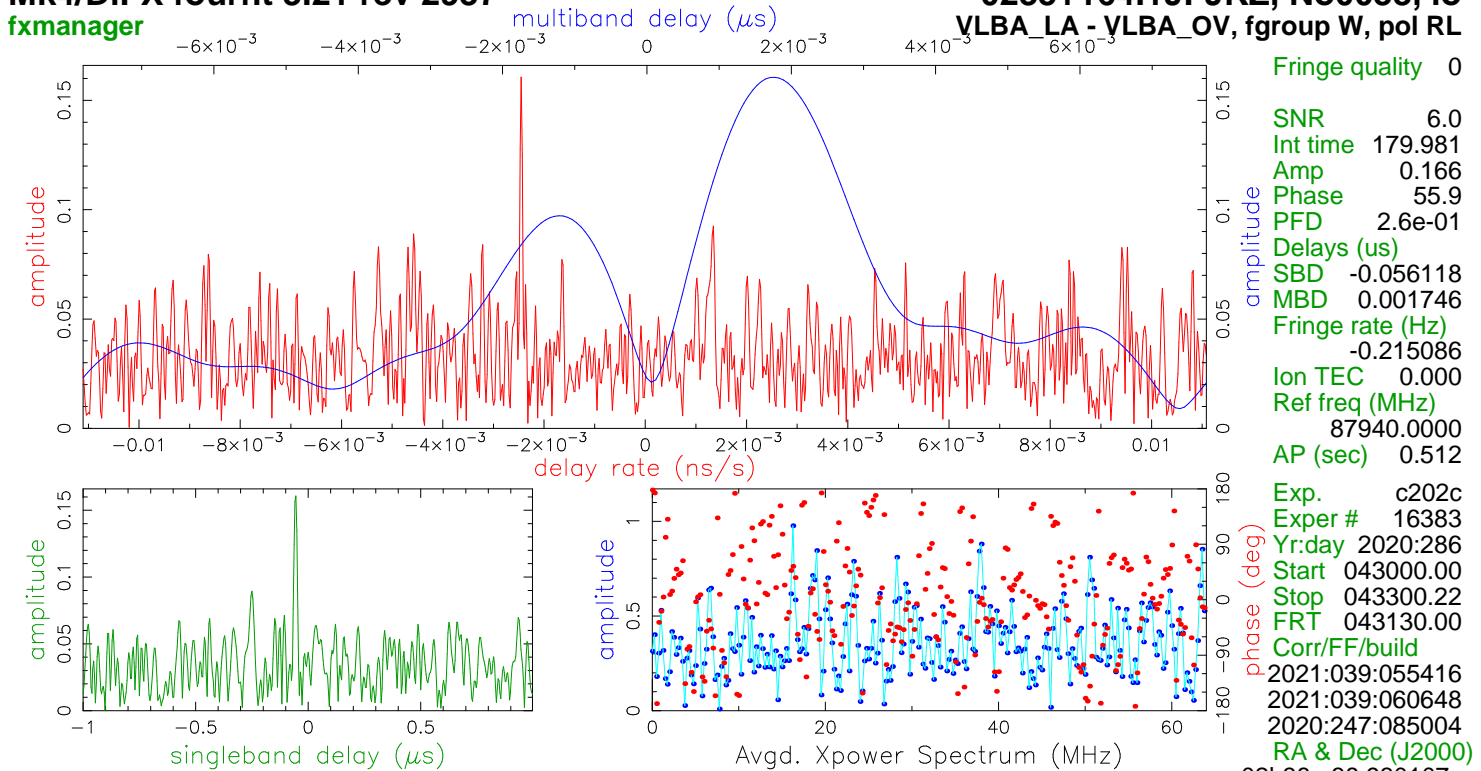


Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 043000.00
Stop 043300.22
FRT 043130.00
Corr/FF/build
2021:039:055416
2021:039:060646
2020:247:085004
RA & Dec (J2000)
02h38m38.930107s
+16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)		3.05869231606E+03				3.05961515432E+03			Resid mbdelay (usec)	-9.63261E-04 +/- 1.7E-04
Sband delay (usec)		3.05868709032E+03				-2.1806000E+01			Resid sbdelay (usec)	-9.28064E-01 +/- 1.4E-03
Phase delay (usec)		3.05961515455E+03				0.0000000E+00			Resid phdelay (usec)	2.31839E-07 +/- 5.8E-07
Delay rate (us/s)		-9.33232635644E-02				-9.33221730771E-02			Resid rate (us/s)	-1.09049E-06 +/- 5.6E-09
Total phase (deg)			248.8			-1.70453219296E-05			Resid phase (deg)	7.3 +/- 18.3
RMS	54.3	43.0			0.171 +/- 0.027				PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	54.3	43.0			0.164				PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	69.2	75.0			0.000				Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	28.0	25.9			0.165				Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	35.9	45.2			0.167				Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00



Fringe quality 0

SNR 6.0

Int time 179.981

Amp 0.166

Phase 55.9

PFD 2.6e-01

Delays (us)

SBD -0.056118

MBD 0.001746

Fringe rate (Hz)

-0.215086

Ion TEC 0.000

Ref freq (MHz)

87940.0000

AP (sec) 0.512

Exp. c202c

Exper # 16383

Yr:day 2020:286

Start 043000.00

Stop 043300.22

FRT 043130.00

Corr/FF/build

2021:039:055416

2021:039:060648

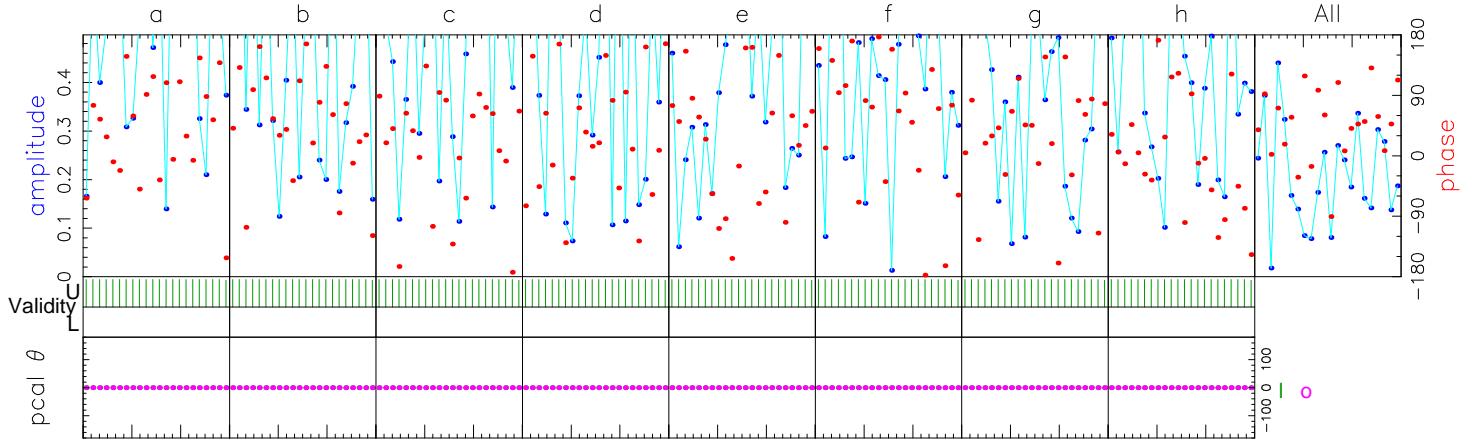
2020:247:085004

RA & Dec (J2000)

02h38m38.930107s

+16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:0	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		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	3.05955439999E+03		Apriori delay (usec)		3.05961515432E+03		Resid mbdelay (usec)		1.74567E-03	+/- 1.8E-04
Sband delay (usec)	3.05955903682E+03		Apriori clock (usec)		-2.1806000E+01		Resid sbdelay (usec)		-5.61175E-02	+/- 1.4E-03
Phase delay (usec)	3.05961515608E+03		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		1.76616E-06	+/- 6.1E-07
Delay rate (us/s)	-9.33246189085E-02		Apriori rate (us/s)		-9.33221730771E-02		Resid rate (us/s)		-2.44583E-06	+/- 5.8E-09
Total phase (deg)	297.4		Apriori accel (us/s/s)		-1.70453219296E-05		Resid phase (deg)		55.9	+/- 19.2

	RMS	Theor.	Amplitude	0.166 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	53.5	45.0	Search (1024X32)	0.158	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	70.3	78.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	32.9	27.1	Inc. seg. avg.	0.164	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	48.0	47.4	Inc. frq. avg.	0.162	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

l: az 94.8 el 35.9 pa -57.5 o: az 88.3 el 26.2 pa -56.2 u,v (fr/asec) 561.128 -586.908 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/lo..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/lo.W.213.1JFKZ

Mk4/DiFX fourfit 3.21 rev 2937

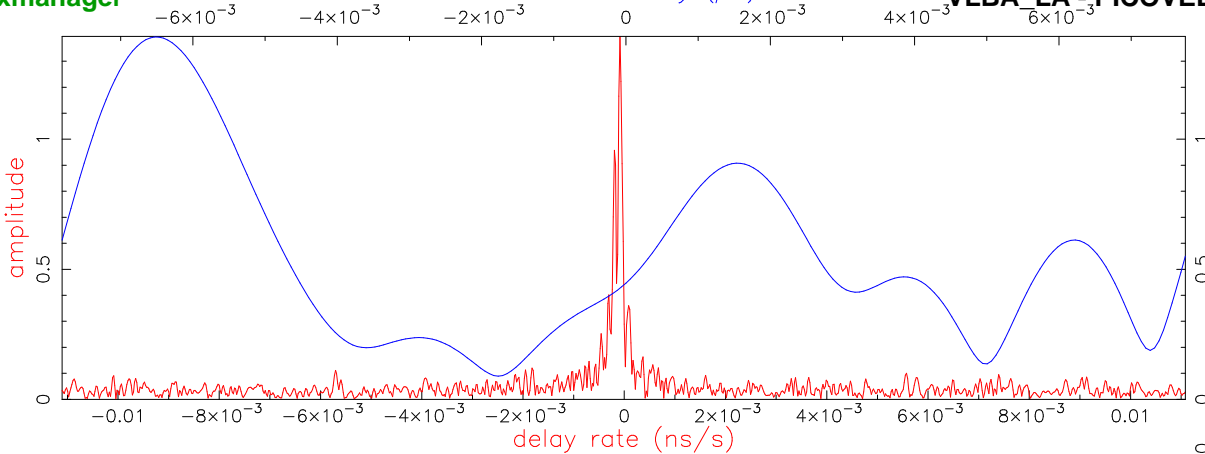
fxmanager

0235+164.1JFKZ, No0038, IP

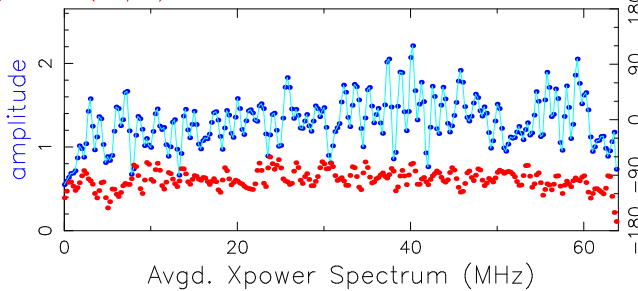
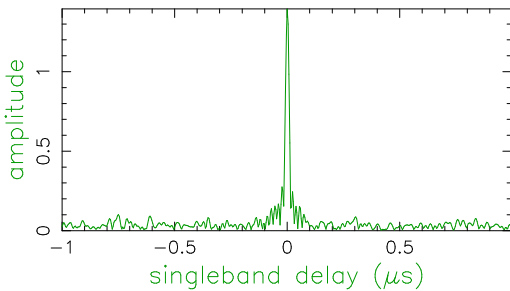
VLBA_LA - PICOVEL, fgroup W, pol LL

multiband delay (μ s)

Fringe quality 3

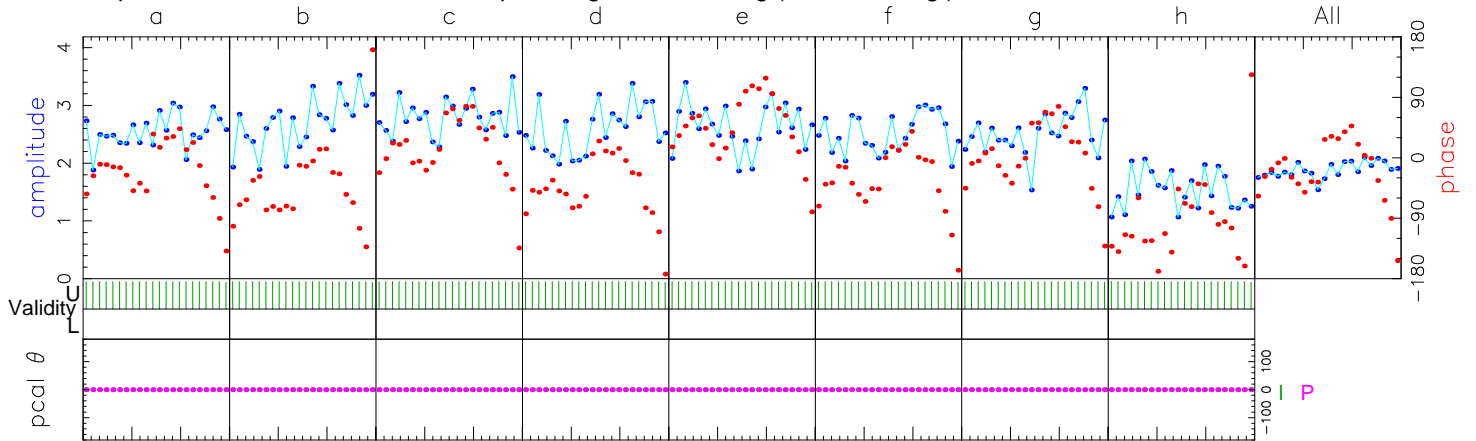


SNR 51.2
 Int time 179.788
 Amp 1.395
 Phase -15.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.000532
 MBD -0.006491
 Fringe rate (Hz)
 -0.007773
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060644
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
I:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-2.48688466349E+03	Apriori delay (usec)	-2.48687817264E+03	Resid mbdelay (usec)	-6.49085E-03	+/-	2.1E-05
Sband delay (usec)	-2.48687764039E+03	Apriori clock (usec)	-1.6755295E-01	Resid sbdelay (usec)	5.32250E-04	+/-	1.7E-04
Phase delay (usec)	-2.48687817313E+03	Apriori clockrate (us/s)	2.9999999E-07	Resid phdelay (usec)	-4.89650E-07	+/-	7.1E-08
Delay rate (us/s)	1.86443221902E+00	Apriori rate (us/s)	1.86443230741E+00	Resid rate (us/s)	-8.83892E-08	+/-	6.8E-10
Total phase (deg)	-196.3	Apriori accel (us/s/s)	1.26323891215E-05	Resid phase (deg)	-15.5	+/-	2.2

ph/seg (deg)	45.9	Theor.	5.3	Amplitude	1.395 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	36.3		9.2	Search (1024X32)	1.380	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	52.3		3.2	Inc. seg. avg.	1.877	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	35.5		5.5	Inc. frq. avg.	1.813	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

I: az 94.8 el 35.9 pa -57.5 P: az 255.5 el 45.3 pa 53.6 u,v (fr/asec) -11373.697 152.315 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/IP..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/IP.W.180.1JFKZ

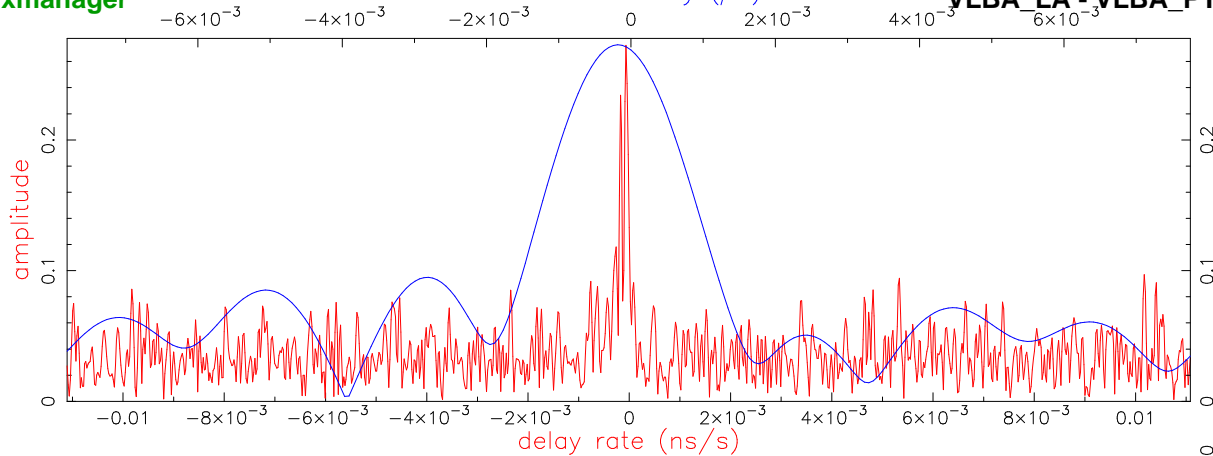
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, lp

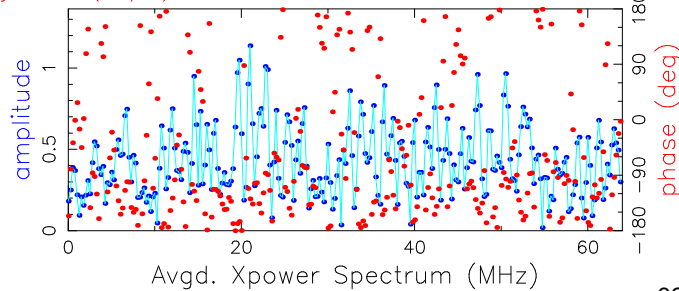
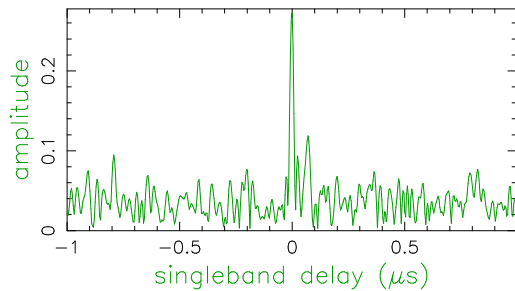
VLBA_LA - VLBA_PT, fgroup W, pol LL

multiband delay (μ s)



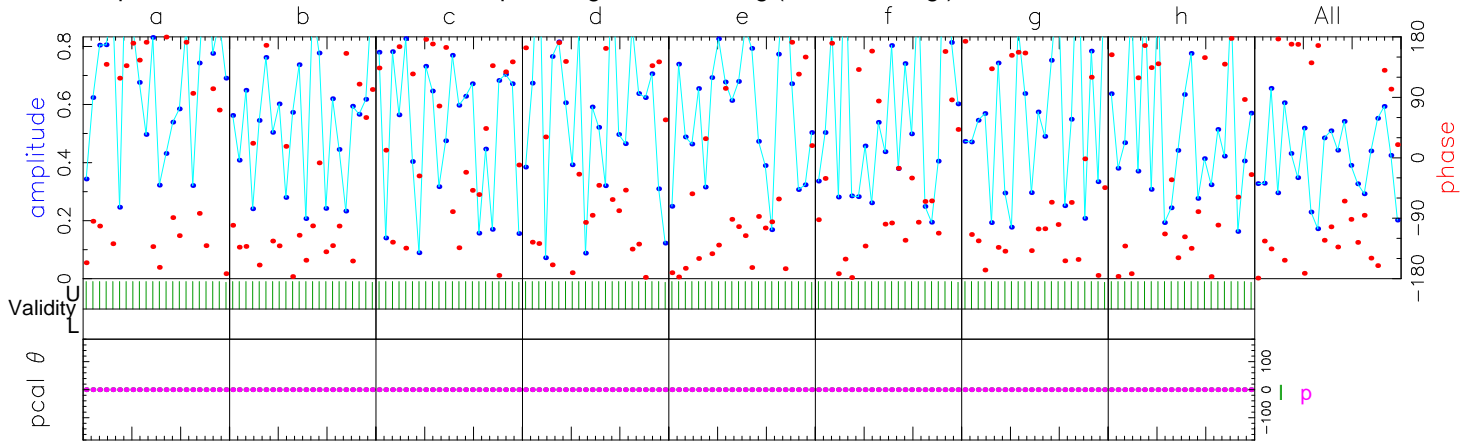
Fringe quality 9

SNR 10.2
 Int time 179.981
 Amp 0.278
 Phase -151.2
 PFD 4.9e-16
 Delays (us)
 SBD -0.001813
 MBD -0.000241
 Fringe rate (Hz)
 -0.006358
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060645
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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
	-169.1	-144.0	-175.4	-133.0	-138.9	-139.7	-135.5	-174.2	Phase	-151.2
	0.4	0.2	0.2	0.3	0.3	0.2	0.3	0.3	Ampl.	0.3
	257.2	255.0	25.3	255.7	256.4	151.0	257.4	255.8	Sbd box	256.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	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	

Group delay (usec)(sbd)	4.31834289022E+02	Apriori delay (usec)	4.31834530143E+02	Resid mbdelay (usec)	-2.41121E-04	+/-	1.1E-04
Sband delay (usec)	4.31832716893E+02	Apriori clock (usec)	-5.5854511E-01	Resid sbdelay (usec)	-1.81325E-03	+/-	8.5E-04
Phase delay (usec)	4.31834525367E+02	Apriori clockrate (us/s)	-5.0000000E-07	Resid phdelay (usec)	-4.77595E-06	+/-	3.6E-07
Delay rate (us/s)	-3.97115937353E-02	Apriori rate (us/s)	-3.97115214398E-02	Resid rate (us/s)	-7.22955E-08	+/-	3.4E-09
Total phase (deg)	57.9	Apriori accel (us/s/s)	-1.61747624608E-06	Resid phase (deg)	-151.2	+/-	11.2

ph/seg (deg)	59.7	RMS	26.4	Theor.	Amplitude	0.278 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	68.5	Search (1024X32)	0.265	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	19.8	Inc. seg. avg.	0.375	Inc. frq. avg.	0.274	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	22.7	Inc. frq. avg.	0.274	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

l: az 94.8 el 35.9 pa -57.5 p: az 92.6 el 34.4 pa -59.4 u,v (fr/asec) 241.319 143.063 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/lp..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/lp.W.182.1JFKZ

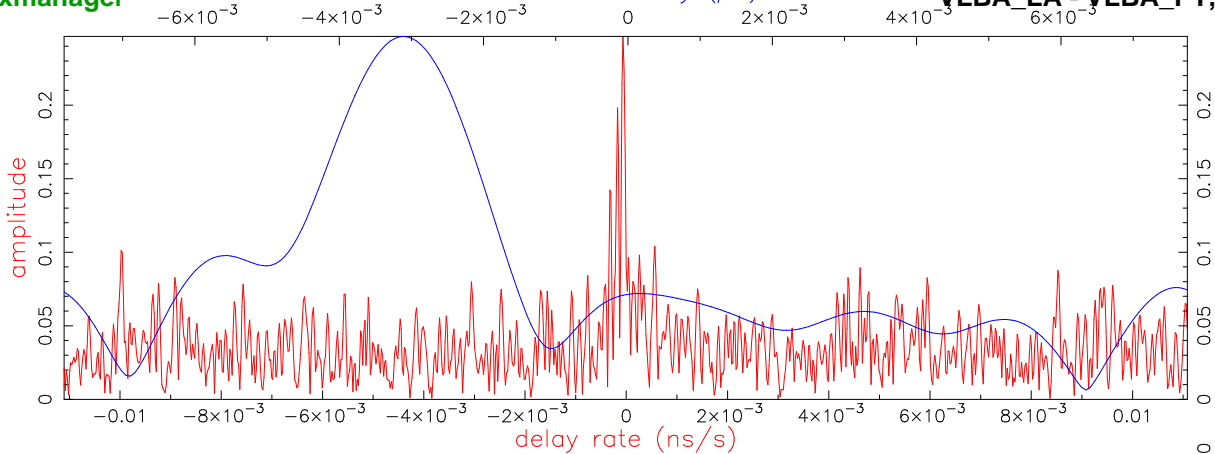
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, lp

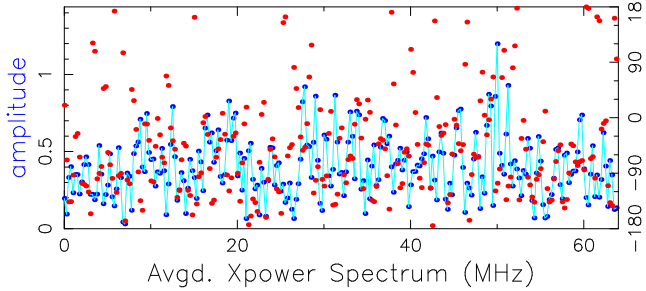
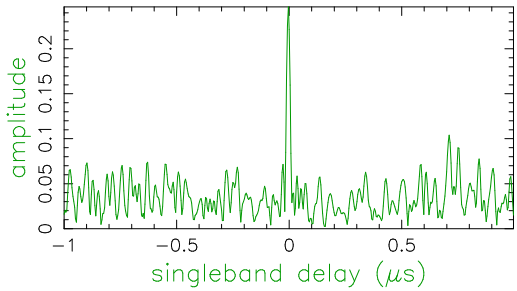
VLBA_LA - VLBA_PT, fgroup W, pol RR

multiband delay (μ s)



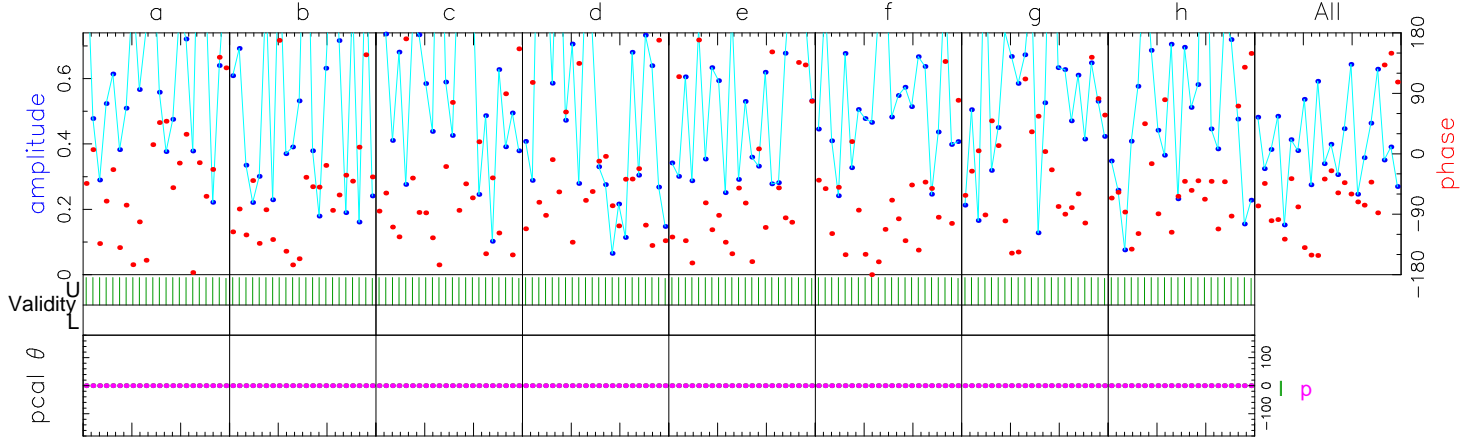
Fringe quality 9

SNR 9.0
 Int time 179.981
 Amp 0.247
 Phase -82.9
 PFD 2.8e-11
 Delays (us)
 SBD -0.004105
 MBD -0.003115
 Fringe rate (Hz)
 -0.005997
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Yr:day 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060646
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0					
l	1000	1000	1000	1000	1000	1000	1000	1000					
p	1000	1000	1000	1000	1000	1000	1000	1000					
lp	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR					
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR					
Group delay (usec)(sbd)		4.31831414929E+02			4.31834530143E+02				Resid mbdelay (usec)	-3.11521E-03	+/- 1.2E-04		
Sband delay (usec)		4.31830425643E+02			-5.5854511E-01				Resid sbdelay (usec)	-4.10450E-03	+/- 9.5E-04		
Phase delay (usec)		4.31834527524E+02			-5.0000000E-07				Resid phdelay (usec)	-2.61910E-06	+/- 4.0E-07		
Delay rate (us/s)		-3.97115896348E-02			-3.97115214398E-02				Resid rate (us/s)	-6.81950E-08	+/- 3.8E-09		
Total phase (deg)			126.2		-1.61747624608E-06				Resid phase (deg)	-82.9	+/- 12.7		
RMS	65.4	29.7			0.247 +/- 0.027				Pcal mode: MANUAL, MANUAL				
amp/seg (%)	80.5	51.8			Search (1024X32)	0.242			Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	35.6	17.9			Interp.	0.000			Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	25.7	31.3			Inc. seg. avg.	0.355			Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
					Inc. frq. avg.	0.267			Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

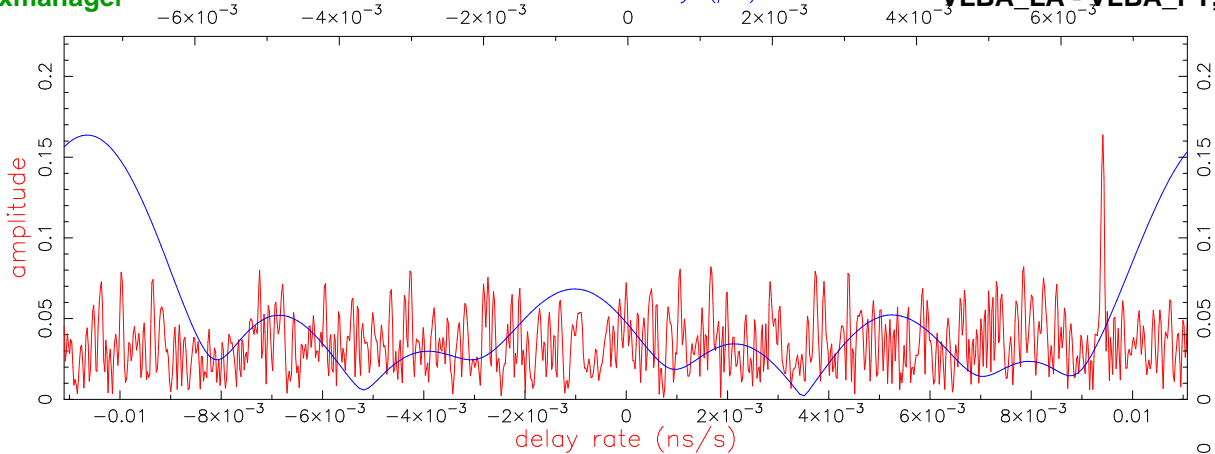
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, lp

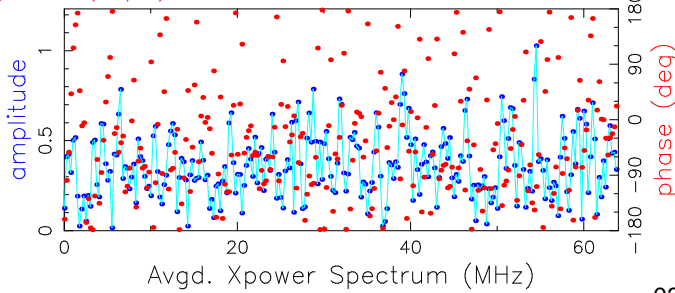
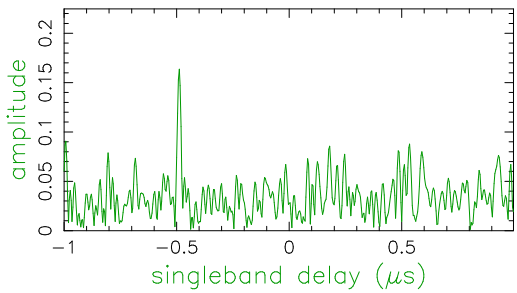
VLBA_LA - VLBA_PT, fgroup W, pol LR

multiband delay (μ s)



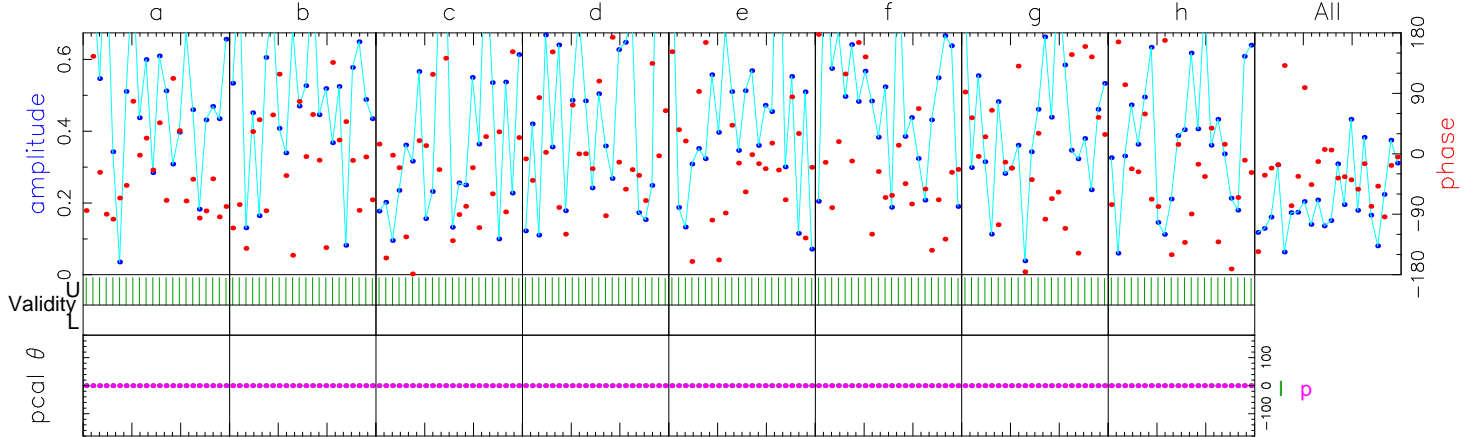
Fringe quality 0

SNR 6.0
 Int time 179.981
 Amp 0.225
 Phase -29.9
 PFD 2.1e-01
 Delays (us)
 SBD -0.488659
 MBD 0.008129
 Fringe rate (Hz) 0.828982
 Ion TEC 0.000
 Ref freq (MHz) 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060648
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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
	-47.7	-19.8	-25.7	-6.2	-31.1	-44.6	-16.4	-38.1	Phase	-29.9
	0.3	0.2	0.2	0.3	0.2	0.3	0.1	0.3	Ampl.	0.2
	165.9	153.2	57.9	2.9	473.3	236.6	500.7	278.8	Sbd box	131.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
lp	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		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.31342658799E+02		Apriori delay (usec)		4.31834530143E+02		Resid mbdelay (usec)		8.12866E-03	+/- 1.8E-04
Sband delay (usec)	4.31345871143E+02		Apriori clock (usec)		-5.5854511E-01		Resid sbdelay (usec)		-4.88659E-01	+/- 1.4E-03
Phase delay (usec)	4.31834529199E+02		Apriori clockrate (us/s)		-5.0000000E-07		Resid phdelay (usec)		-9.43981E-07	+/- 6.0E-07
Delay rate (us/s)	-3.97020947624E-02		Apriori rate (us/s)		-3.97115214398E-02		Resid rate (us/s)		9.42668E-06	+/- 5.8E-09
Total phase (deg)	179.2		Apriori accel (us/s/s)		-1.61747624608E-06		Resid phase (deg)		-29.9	+/- 19.1

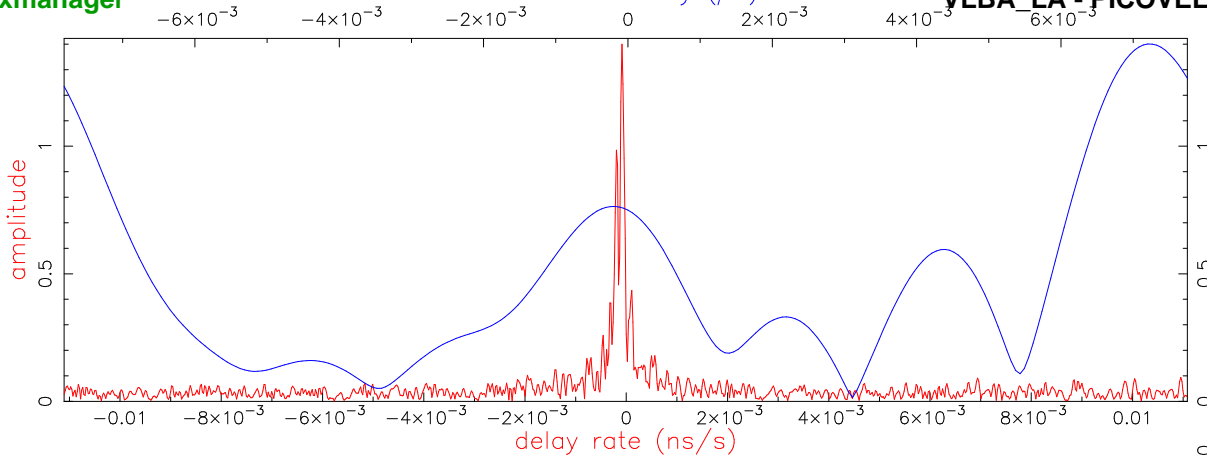
	RMS	Theor.	Amplitude	0.225 +/- 0.037	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	56.4	44.7	Search (1024X32)	0.158	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	66.2	78.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	15.6	27.0	Inc. seg. avg.	0.221	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	35.0	47.1	Inc. frq. avg.	0.209	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
						ion window (TEC) 0.00 0.00

l: az 94.8 el 35.9 pa -57.5 p: az 92.6 el 34.4 pa -59.4 u,v (fr/asec) 241.319 143.063 simultaneous interpolator

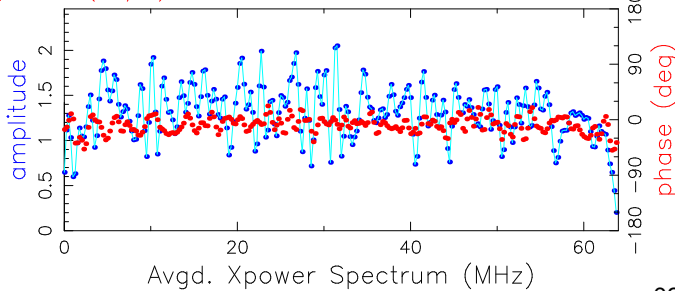
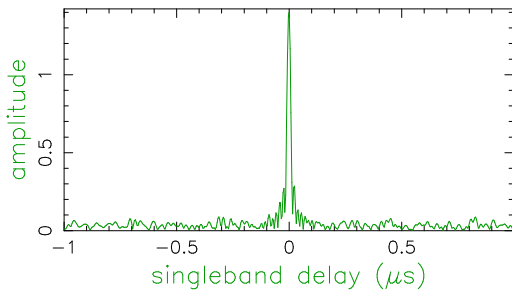
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/lp..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/lp.W.214.1JFKZ

multiband delay (μ s)

Fringe quality 3

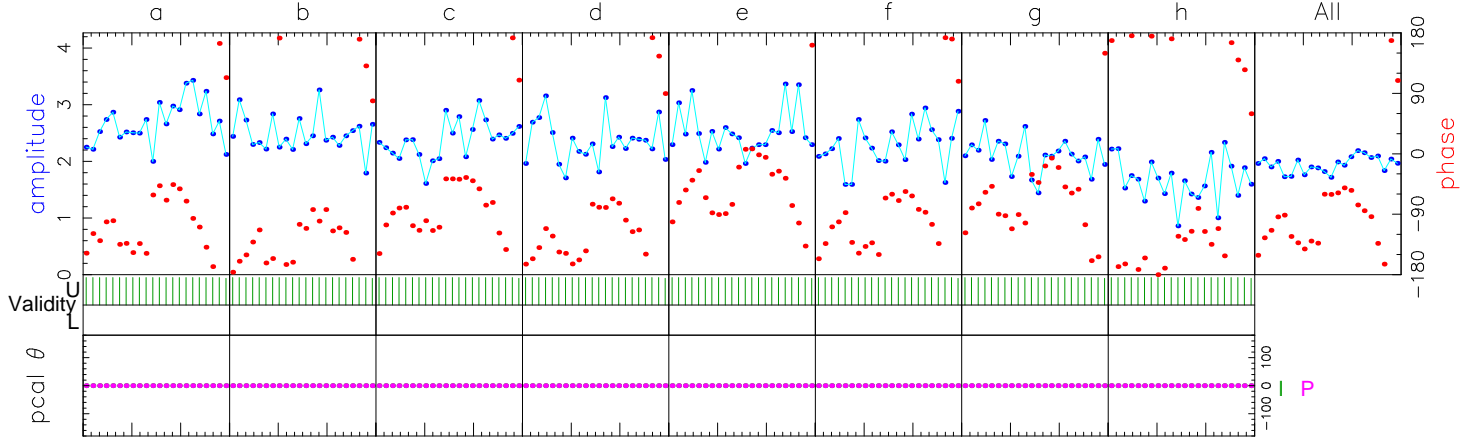


SNR 52.2
Int time 179.788
Amp 1.423
Phase -109.0
PFD 0.0e+00
Delays (us)
SBD -0.001615
MBD 0.007181
Fringe rate (Hz)
-0.007584
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512



Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 043000.00
Stop 043300.22
FRT 043130.00
Corr/FF/build
2021:039:055416
2021:039:060648
2020:247:085004
RA & Dec (J2000)
02h38m38.930107s
+16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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
	-112.0	-141.2	-86.9	-130.0	-56.2	-114.1	-76.0	-166.9	Phase	-109.0
	1.9	1.8	1.6	1.7	1.8	1.6	1.5	1.3	Ampl.	1.7
	256.2	256.2	256.3	256.1	256.3	256.0	255.8	254.7	Sbd box	256.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
I	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)	-2.48688661646E+03		Apriori delay (usec)		-2.48687817264E+03		Resid mbdelay (usec)		7.18118E-03	+/- 2.1E-05
Sband delay (usec)	-2.48687978789E+03		Apriori clock (usec)		-1.6755295E-01		Resid sbdelay (usec)		-1.61525E-03	+/- 1.7E-04
Phase delay (usec)	-2.48687817609E+03		Apriori clockrate (us/s)		2.9999999E-07		Resid phdelay (usec)		-3.44395E-06	+/- 6.9E-08
Delay rate (us/s)	1.86443222117E+00		Apriori rate (us/s)		1.86443230741E+00		Resid rate (us/s)		-8.62363E-08	+/- 6.7E-10
Total phase (deg)			Apriori accel (us/s/s)		1.26323891215E-05		Resid phase (deg)		-109.0	+/- 2.2

	RMS	Theor.	Amplitude	1.423 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	48.2	5.2	Search (1024X32)	1.395	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	38.1	9.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	39.2	3.1	Inc. seg. avg.	1.939	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	21.7	5.4	Inc. frq. avg.	1.658	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

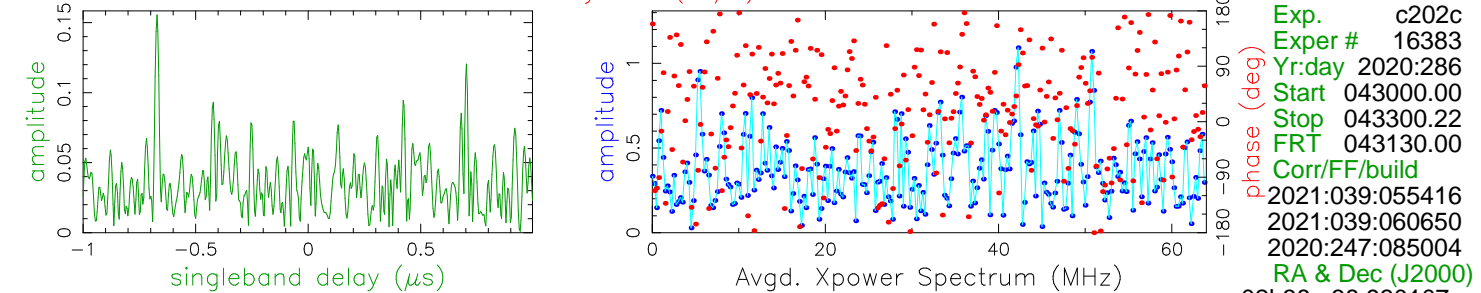
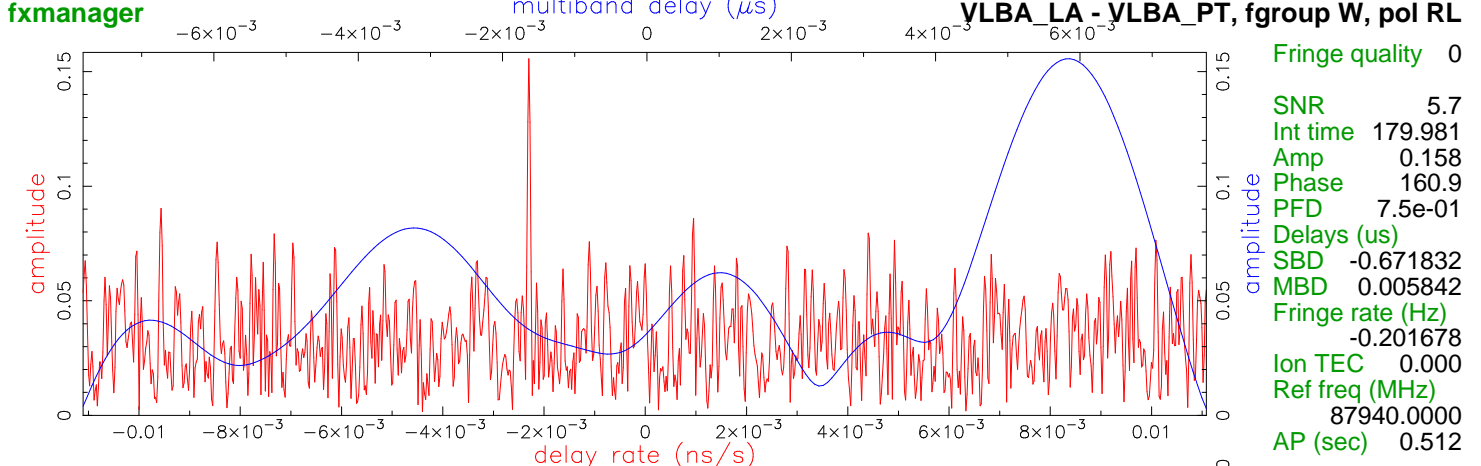
I: az 94.8 el 35.9 pa -57.5 P: az 255.5 el 45.3 pa 53.6 u,v (fr/asec) -11373.697 152.315 simultaneous interpolator
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/IP..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/IP.W.219.1JFKZ

Mk4/DiFX fourfit 3.21 rev 2937

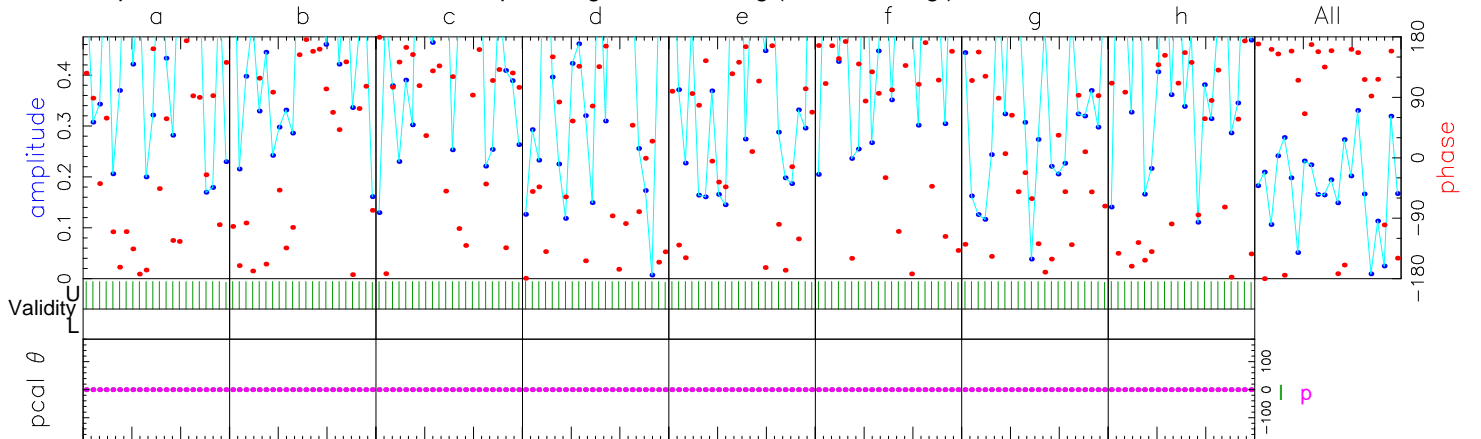
fxmanager

0235+164.1JFKZ, No0038, lp

VLBA_LA - VLBA_PT, fgroup W, pol RL



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
lp	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		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	4.31168496879E+02		Apriori delay (usec)		4.31834530143E+02		Resid mbdelay (usec)		5.84174E-03	+/- 1.9E-04
Sband delay (usec)	4.31162697893E+02		Apriori clock (usec)		-5.5854511E-01		Resid sbdelay (usec)		-6.71832E-01	+/- 1.5E-03
Phase delay (usec)	4.31834535226E+02		Apriori clockrate (us/s)		-5.0000000E-07		Resid phdelay (usec)		5.08275E-06	+/- 6.3E-07
Delay rate (us/s)	-3.97138147986E-02		Apriori rate (us/s)		-3.97115214398E-02		Resid rate (us/s)		-2.29336E-06	+/- 6.1E-09
Total phase (deg)	10.0		Apriori accel (us/s/s)		-1.61747624608E-06		Resid phase (deg)		160.9	+/- 20.1

ph/seg (deg) 40.6 47.1 Search (1024X32) 0.151 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 56.0 82.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 64.6 28.4 Inc. seg. avg. 0.138 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.9 49.5 Inc. frq. avg. 0.158 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 94.8 el 35.9 pa -57.5 p: az 92.6 el 34.4 pa -59.4 u,v (fr/asec) 241.319 143.063 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/lp..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/lp.W.234.1JFKZ

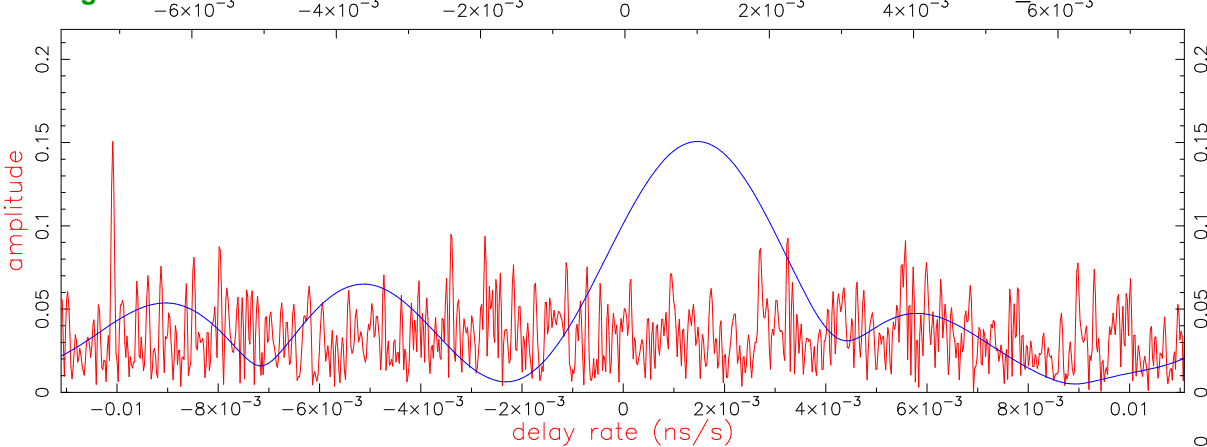
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, IP

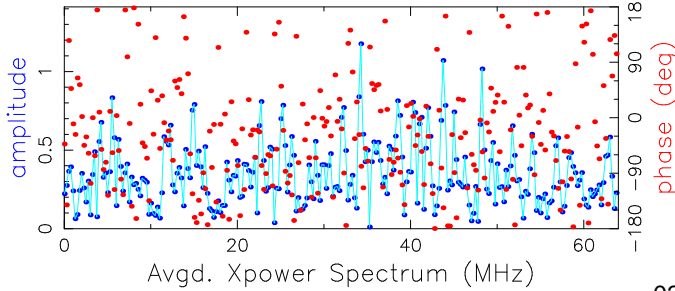
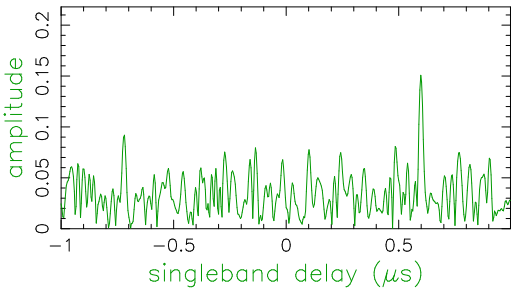
VLBA_LA - PICOVEL, fgroup W, pol LR

multiband delay (μ s)



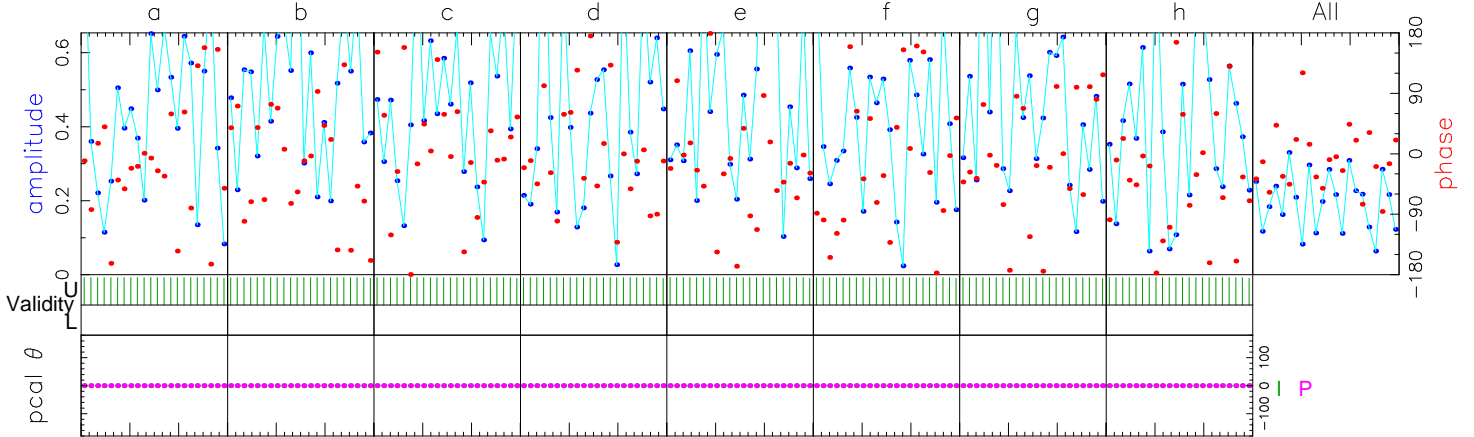
Fringe quality 0

SNR 5.5
 Int time 179.788
 Amp 0.218
 Phase -13.5
 PFD 9.8e-01
 Delays (us)
 SBD 0.598365
 MBD 0.001029
 Fringe rate (Hz)
 -0.888394
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060650
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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
	-28.2	-32.8	21.4	-0.9	-18.4	-71.0	18.2	-46.2		-13.5
	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.1		0.2
	488.1	481.8	412.0	163.9	214.7	283.0	253.5	222.8		410.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
P	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
I:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
I:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
I	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
P	1000	1000	1000	1000	1000	1000	1000	1000		
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
										Chan ids
										Tracks
Group delay (usec)(sbd)	-2.48628339414E+03		Apriori delay (usec)		-2.48687817264E+03		Resid mbdelay (usec)		1.02850E-03	+/- 2.0E-04
Sband delay (usec)	-2.48627980714E+03		Apriori clock (usec)		-1.6755295E-01		Resid sbdelay (usec)		5.98365E-01	+/- 1.6E-03
Phase delay (usec)	-2.48687817307E+03		Apriori clockrate (us/s)		2.9999999E-07		Resid phdelay (usec)		-4.25194E-07	+/- 6.5E-07
Delay rate (us/s)	1.86442220513E+00		Apriori rate (us/s)		1.86443230741E+00		Resid rate (us/s)		-1.01023E-05	+/- 6.3E-09
Total phase (deg)			Apriori accel (us/s/s)		1.26323891215E-05		Resid phase (deg)		-13.5	+/- 20.7

	RMS	Theor.	Amplitude	0.218 +/- 0.039	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	45.6	48.5	Search (1024X32)	0.148	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	59.2	84.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	35.1	29.3	Inc. seg. avg.	0.211	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	30.6	51.1	Inc. frq. avg.	0.218	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

I: az 94.8 el 35.9 pa -57.5 P: az 255.5 el 45.3 pa 53.6 u,v (fr/asec) -11373.697 152.315 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/IP..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/IP.W.235.1JFKZ

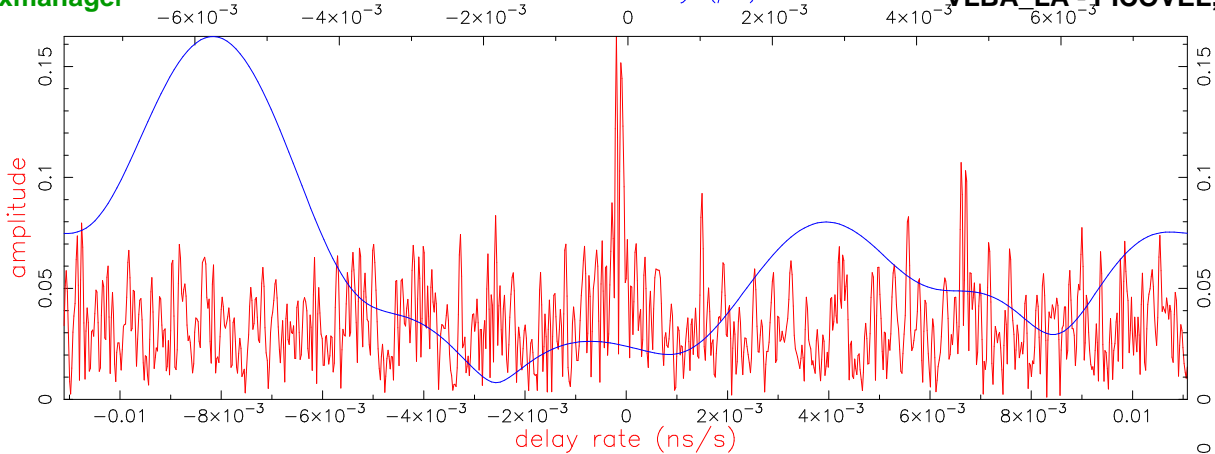
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, IP

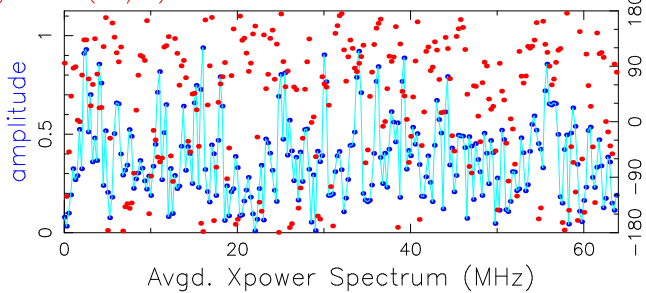
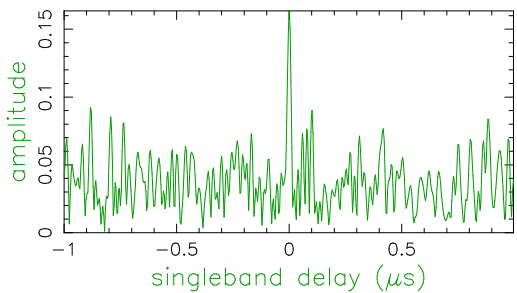
VLBA_LA - PICOVEL, fgroup W, pol RL

multiband delay (μ s)



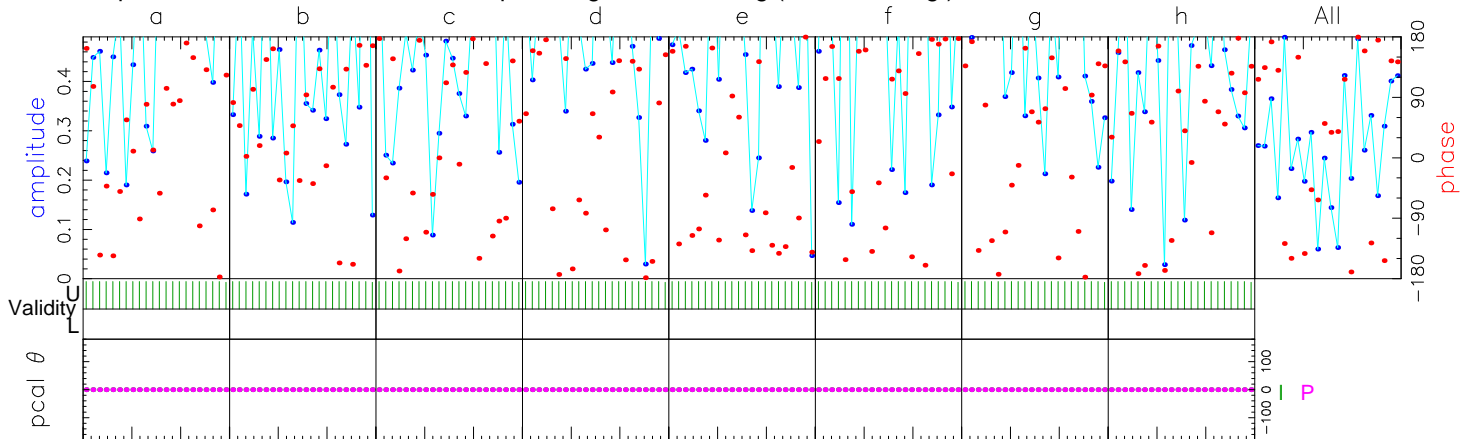
Fringe quality 0

SNR 6.0
 Int time 179.788
 Amp 0.164
 Phase 169.0
 PFD 2.3e-01
 Delays (us)
 SBD 0.000139
 MBD -0.005750
 Fringe rate (Hz)
 -0.016890
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060652
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
I	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	-2.48688392222E+03				-2.48687817264E+03				Resid mbdelay (usec)	-5.74958E-03 +/- 1.8E-04
Sband delay (usec)	-2.48687803414E+03				-1.6755295E-01				Resid sbdelay (usec)	1.38500E-04 +/- 1.4E-03
Phase delay (usec)	-2.48687816730E+03				2.9999999E-07				Resid phdelay (usec)	5.33741E-06 +/- 6.0E-07
Delay rate (us/s)	1.86443211534E+00				1.86443230741E+00				Resid rate (us/s)	-1.92063E-07 +/- 5.8E-09
Total phase (deg)			-11.8		1.26323891215E-05				Resid phase (deg)	169.0 +/- 19.1

	RMS	Theor.	Amplitude	0.164 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	70.5	44.8	Search (1024X32)	0.162	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	99.1	78.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	41.9	27.0	Inc. seg. avg.	0.211	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	45.0	47.2	Inc. frq. avg.	0.178	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

I: az 94.8 el 35.9 pa -57.5 P: az 255.5 el 45.3 pa 53.6 u,v (fr/asec) -11373.697 152.315 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/IP..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/IP.W.249.1JFKZ

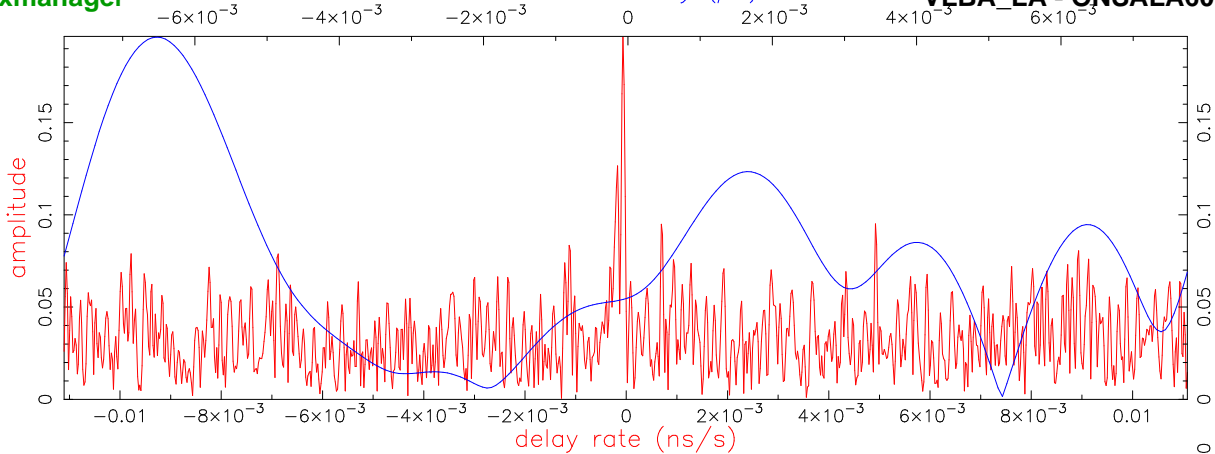
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

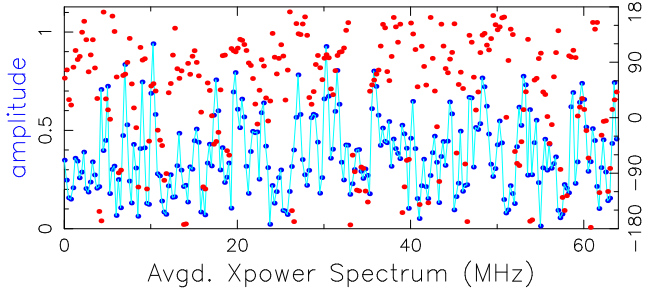
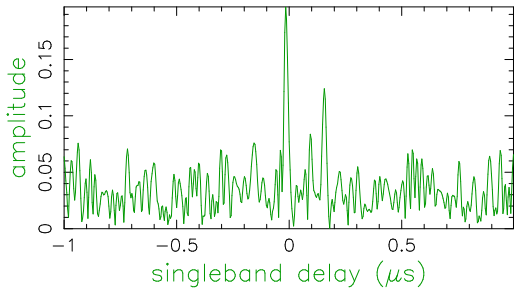
0235+164.1JFKZ, No0038, IX

VLBA_LA - ONSALA60, fgroup W, pol LL

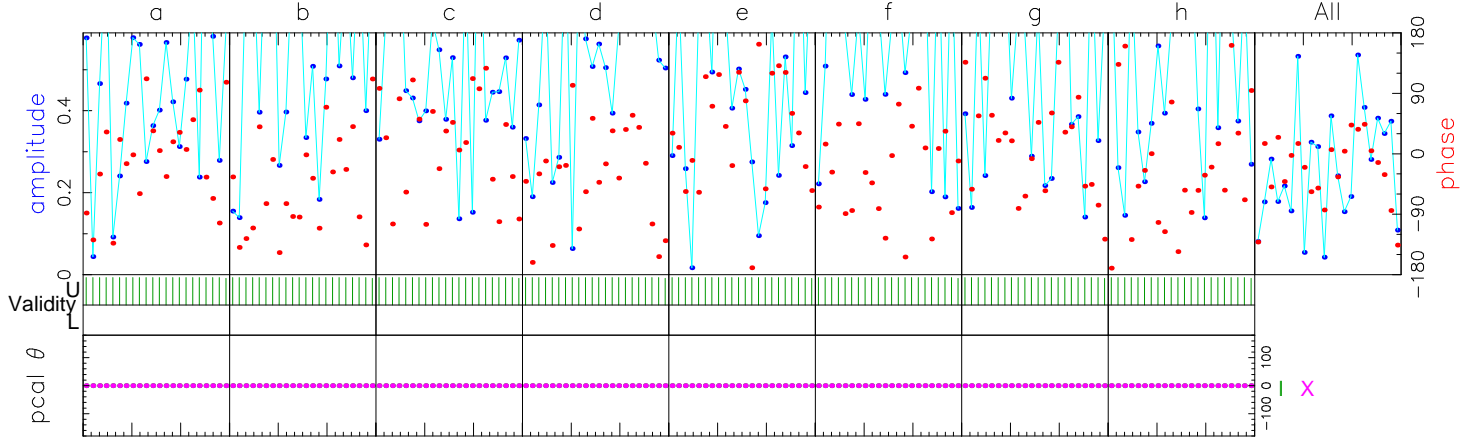
multiband delay (μ s)



Fringe quality 9
 SNR 7.2
 Int time 179.959
 Amp 0.197
 Phase -10.4
 PFD 8.3e-05
 Delays (us)
 SBD -0.015000
 MBD -0.006507
 Fringe rate (Hz)
 -0.004831
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512
 Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060644
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	2.04326153713E+03	2.04326866979E+03	2.04328366921E+03	2.04328366921E+03	2.04328366954E+03	2.04328366954E+03	2.04328366954E+03	2.04328366954E+03		
Sband delay (usec)	2.04326866979E+03	2.04326866979E+03	2.04328366921E+03	2.04328366921E+03	2.04328366954E+03	2.04328366954E+03	2.04328366954E+03	2.04328366954E+03		
Phase delay (usec)	2.04328366921E+03	2.04328366921E+03	2.04328366921E+03	2.04328366921E+03	2.04328366954E+03	2.04328366954E+03	2.04328366954E+03	2.04328366954E+03		
Delay rate (us/s)	1.71617437268E+00	1.71617437268E+00	1.71617437268E+00	1.71617437268E+00	1.71617442761E+00	1.71617442761E+00	1.71617442761E+00	1.71617442761E+00		
Total phase (deg)			313.3							
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										
Amplitude										
Search (1024X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
0.197 +/- 0.027										
0.187										
0.000										
0.217										
0.232										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
-1.000 1.000										
-0.008 0.008										
-0.011 0.011										
0.00 0.00										
simultaneous interpolator										

Mk4/DiFX fourfit 3.21 rev 2937

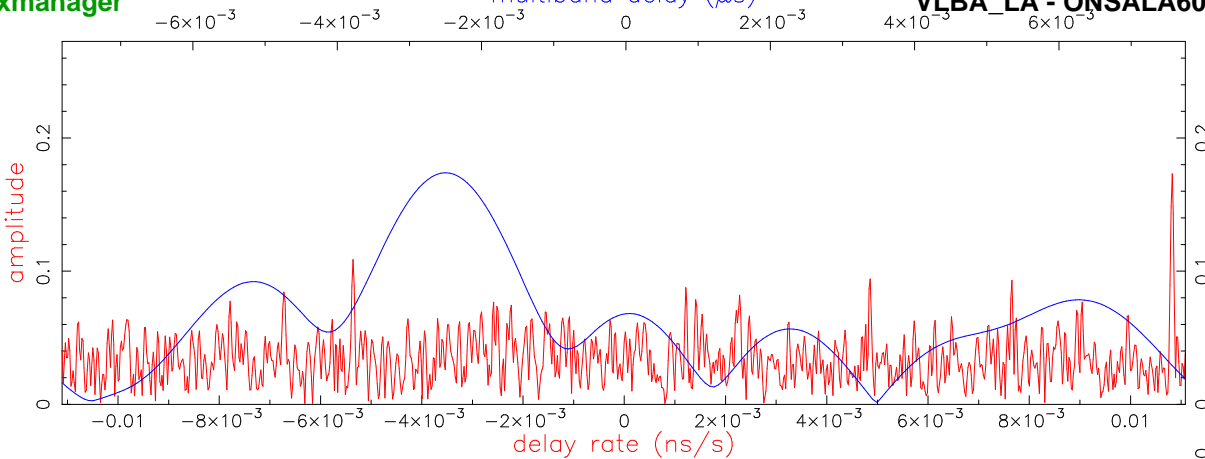
fxmanager

0235+164.1JFKZ, No0038, IX

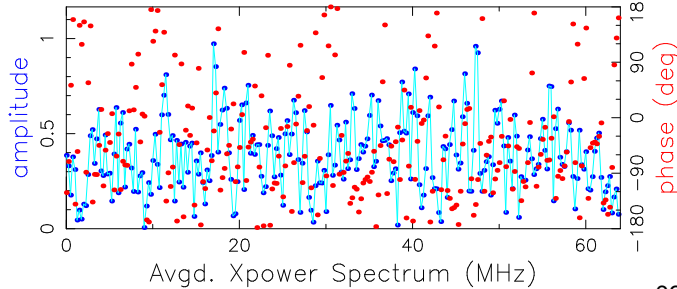
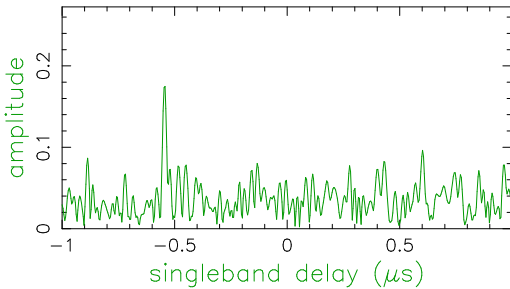
VLBA_LA - ONSALA60, fgroup W, pol RR

multiband delay (μ s)

Fringe quality 0

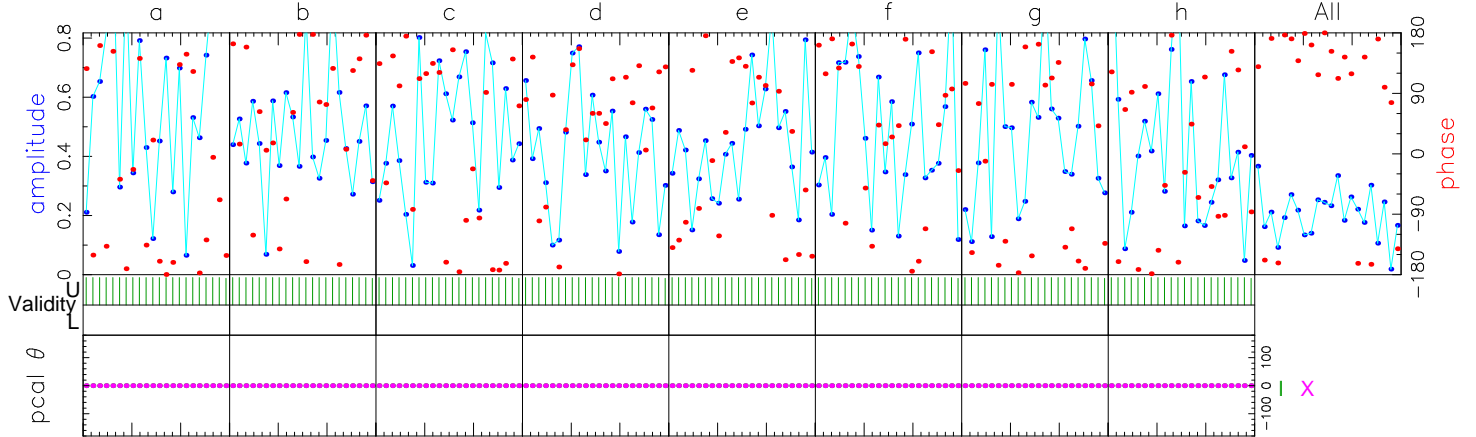


SNR 6.5
 Int time 179.959
 Amp 0.273
 Phase 155.4
 PFD 9.8e-03
 Delays (us)
 SBD -0.544690
 MBD -0.002406
 Fringe rate (Hz)
 0.952706
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060646
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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		
	-168.2	147.1	153.3	93.3	177.2	131.8	156.6	180.0	Phase	155.4		
	0.5	0.2	0.4	0.3	0.1	0.3	0.4	0.3	Ampl.	0.3		
	121.9	475.1	390.6	128.6	48.9	283.8	311.7	505.0	Sbd box	117.6		
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used			
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase			
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC			
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp			
X	1000	1000	1000	1000	1000	1000	1000	1000				
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids			
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks			
									Chan ids			
									Tracks			
Group delay (usec)(sbd)	2.04273438892E+03		Apriori delay (usec)		2.04328366954E+03		Resid mbdelay (usec)		-2.40561E-03	+/- 1.7E-04		
Sband delay (usec)	2.04273897979E+03		Apriori clock (usec)		-4.8842361E+01		Resid sbdelay (usec)		-5.44690E-01	+/- 1.3E-03		
Phase delay (usec)	2.04328367445E+03		Apriori clockrate (us/s)		-6.2800004E-07		Resid phdelay (usec)		4.90824E-06	+/- 5.6E-07		
Delay rate (us/s)	1.71618526119E+00		Apriori rate (us/s)		1.71617442761E+00		Resid rate (us/s)		1.08336E-05	+/- 5.3E-09		
Total phase (deg)	119.1		Apriori accel (us/s/s)		-1.94900111467E-05		Resid phase (deg)		155.4	+/- 17.6		
RMS	Theor.	Amplitude	0.273 +/- 0.042		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5					
ph/seg (deg)	36.3	41.2	Search (1024X32)	0.167	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000	1.000		
amp/seg (%)	47.4	71.9	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008	0.008	
ph/frq (deg)	33.9	24.9	Inc. seg. avg.	0.252	Sample rate(MISamp/s): 128		dr window (ns/s)		-0.011	0.011		
amp/frq (%)	38.9	43.4	Inc. frq. avg.	0.281	Data rate(Mb/s): 2048		nlags: 256		t_cohere infinite	ion window (TEC)	0.00	0.00

I: az 94.8 el 35.9 pa -57.5

X: az 254.0 el 29.7 pa 32.7

u,v (fr/asec) -10482.411 -2698.106

simultaneous interpolator

Control file: cf_1234_88GHz_gmva

Input file: /Exps/c202c/v1/1234/No0038/IX..1JFKZ

Output file: /Exps/c202c/v1/1234/No0038/IX.W.195.1JFKZ

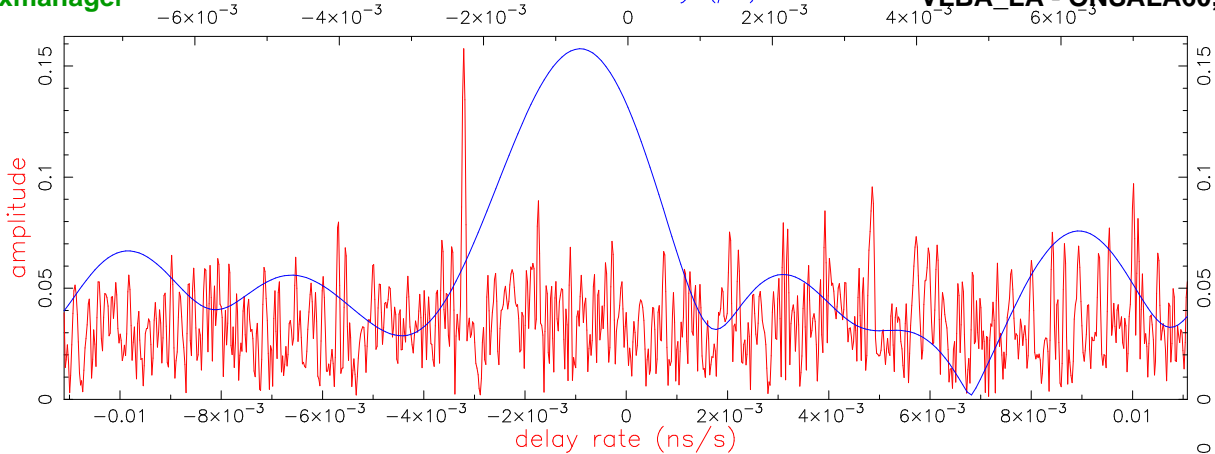
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, IX

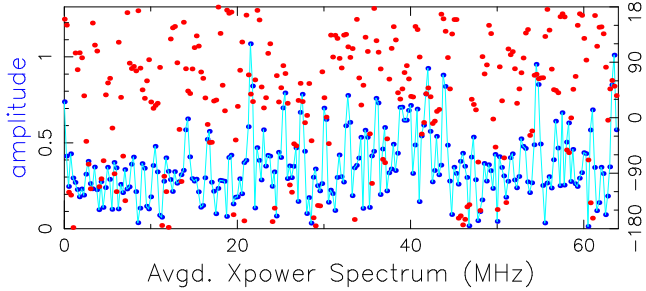
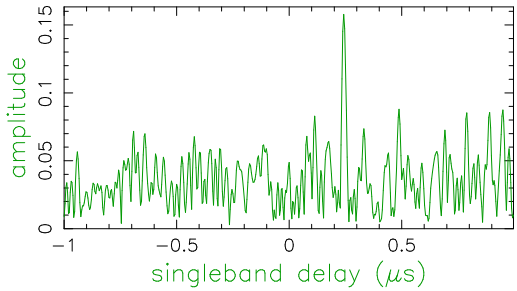
VLBA_LA - ONSALA60, fgroup W, pol LR

multiband delay (μ s)



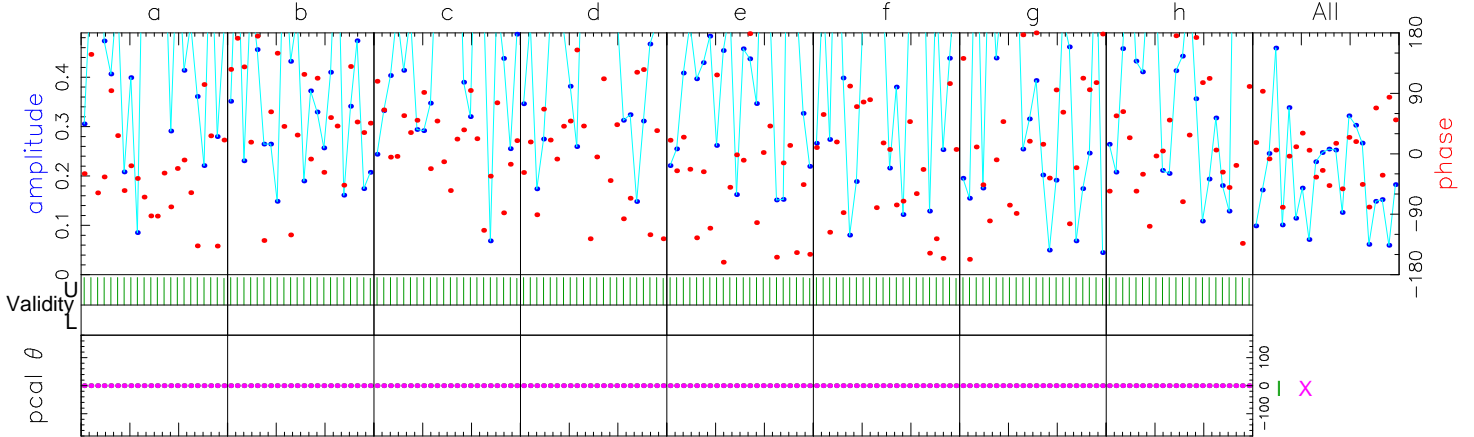
Fringe quality 0

SNR 5.8
 Int time 179.959
 Amp 0.163
 Phase -0.2
 PFD 5.9e-01
 Delays (us)
 SBD 0.242249
 MBD -0.000663
 Fringe rate (Hz)
 -0.282644
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060648
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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
	-37.7	66.6	16.0	6.6	-31.9	-1.0	-3.5	-1.0	Phase	-0.2
	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.1	Ampl.	0.2
	93.0	276.4	320.5	250.9	126.7	467.1	414.3	122.6	Sbd box	319.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.04353300627E+03		Apriori delay (usec)		2.04328366954E+03		Resid mbdelay (usec)		-6.63266E-04	+/- 1.9E-04
Sband delay (usec)	2.04352591804E+03		Apriori clock (usec)		-4.8842361E+01		Resid sbdelay (usec)		2.42249E-01	+/- 1.5E-03
Phase delay (usec)	2.04328366953E+03		Apriori clockrate (us/s)		-6.2800004E-07		Resid phdelay (usec)		-7.82992E-09	+/- 6.3E-07
Delay rate (us/s)	1.71617121355E+00		Apriori rate (us/s)		1.71617442761E+00		Resid rate (us/s)		-3.21406E-06	+/- 6.0E-09
Total phase (deg)	323.4		Apriori accel (us/s/s)		-1.94900111467E-05		Resid phase (deg)		-0.2	+/- 19.8

	RMS	Theor.	Amplitude	0.163 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	46.7	46.4	Search (1024X32)	0.155	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	68.9	81.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	34.6	28.0	Inc. seg. avg.	0.155	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	49.4	48.9	Inc. frq. avg.	0.167	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

I: az 94.8 el 35.9 pa -57.5 X: az 254.0 el 29.7 pa 32.7 u,v (fr/asec) -10482.411 -2698.106 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/IX..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/IX.W.212.1JFKZ

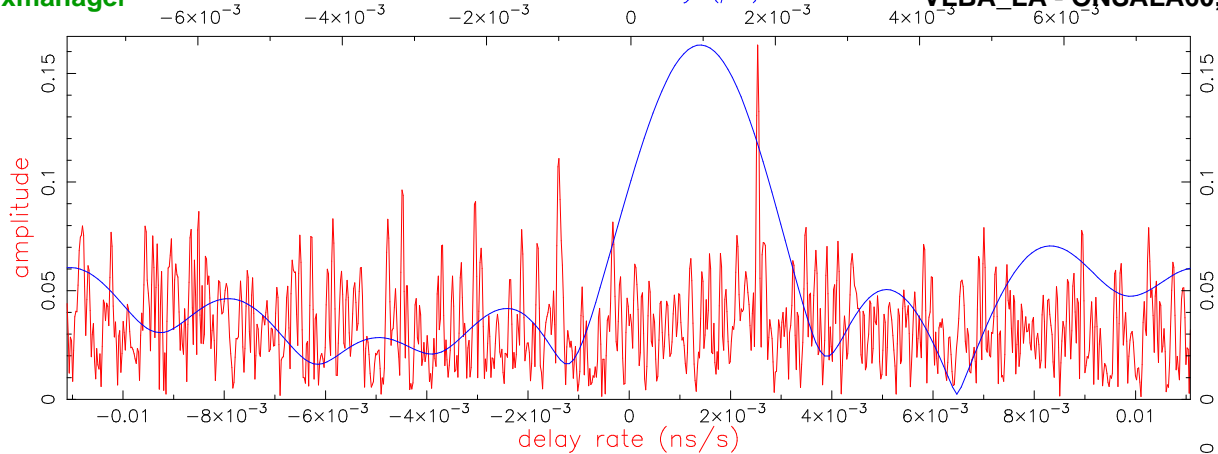
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, IX

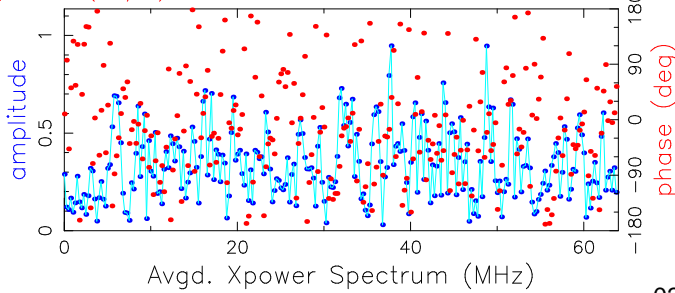
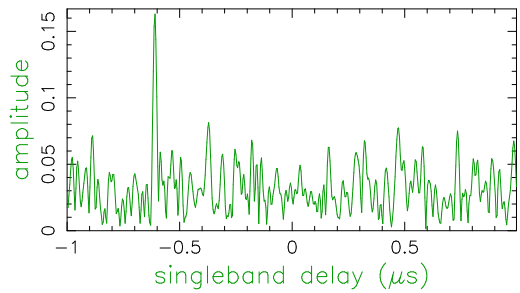
VLBA_LA - ONSALA60, fgroup W, pol RL

multiband delay (μ s)



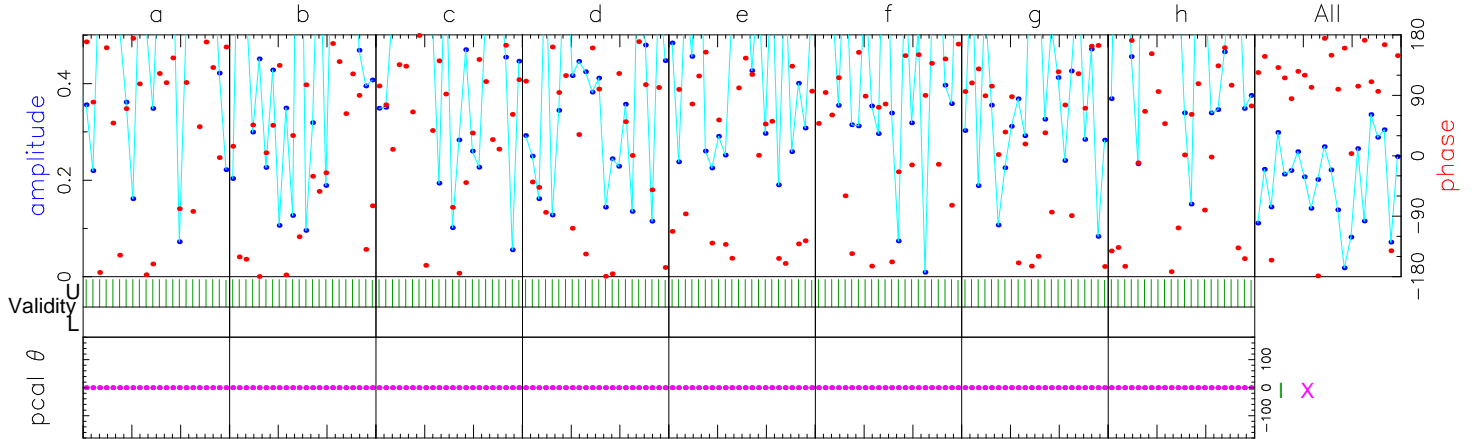
Fringe quality 0

SNR 6.0
 Int time 179.959
 Amp 0.167
 Phase 132.8
 PFD 2.3e-01
 Delays (us)
 SBD -0.610022
 MBD 0.000955
 Fringe rate (Hz)
 0.222608
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060650
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 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	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	136.5	-176.4	97.6	139.6	139.9	109.8	132.3	153.3		
Sband delay (usec)	0.3	0.1	0.2	0.1	0.2	0.2	0.2	0.2		
Phase delay (usec)	101.3	169.3	191.1	298.8	383.3	235.9	39.4	326.8		
Delay rate (us/s)										
Total phase (deg)			96.5							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
Amplitude										
Search (1024X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
PC period (AP's) 5, 5										
SampCntNorm: enabled										
nlags: 256 t_cohere infinite										
simultaneous interpolator										

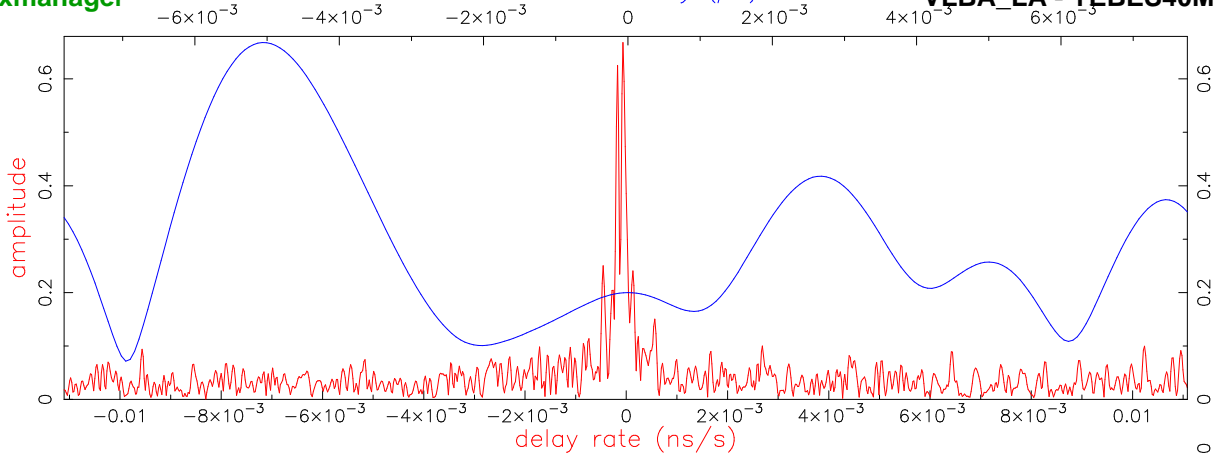
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, IY

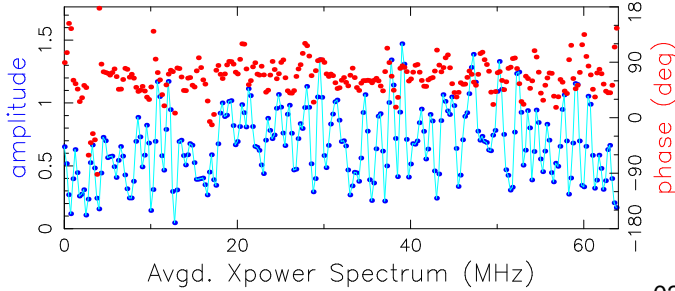
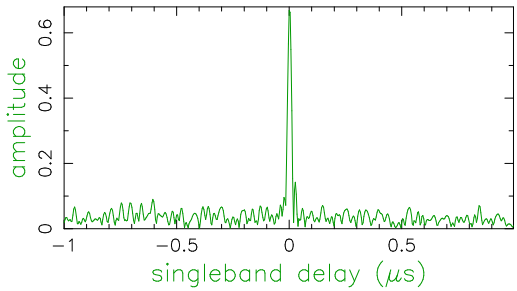
VLBA_LA - YEBES40M, fgroup W, pol LL

multiband delay (μ s)



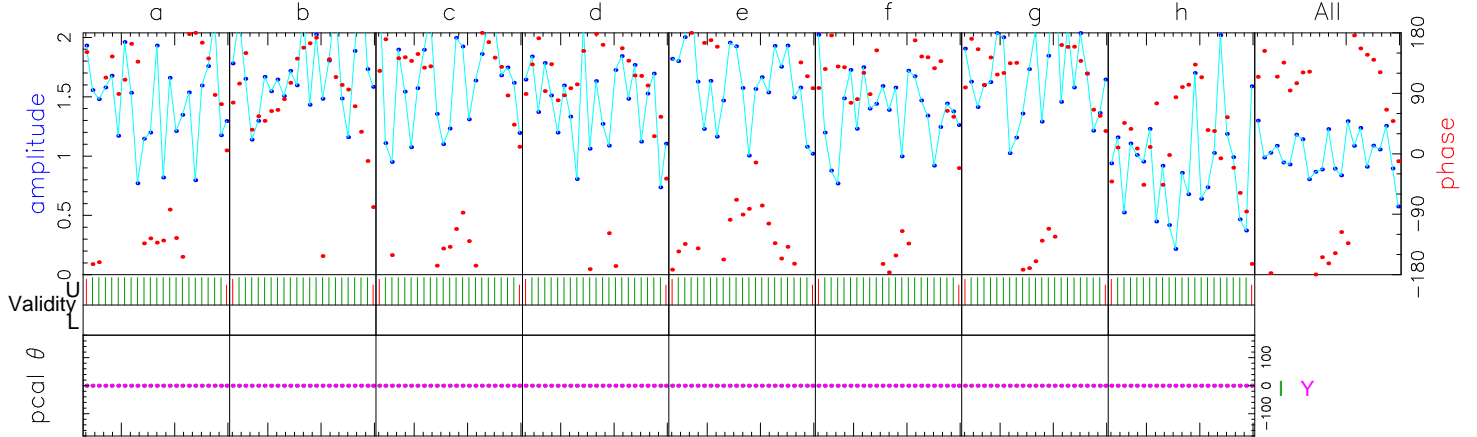
Fringe quality 7

SNR 23.7
 Int time 162.108
 Amp 0.680
 Phase 146.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.001764
 MBD -0.005027
 Fringe rate (Hz)
 -0.006254
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043016.90
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060644
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 23 segs, 14 APs / seg (7.17 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	167.0	99.4	160.5	128.0	-143.4	136.2	151.2	22.1	Phase	146.5
I	0.8	1.0	1.0	1.0	1.0	0.8	1.1	0.5	Ampl.	0.9
Y	256.9	257.1	257.4	257.4	256.6	256.9	256.4	254.8	Sbd box	257.5
I	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-2.18742406536E+03	Apriori delay (usec)	-2.18741903787E+03	Resid mbdelay (usec)	-5.02749E-03	+/-	4.6E-05
Sband delay (usec)	-2.18741727387E+03	Apriori clock (usec)	-1.4123136E+01	Resid sbdelay (usec)	1.76400E-03	+/-	3.6E-04
Phase delay (usec)	-2.18741903324E+03	Apriori clockrate (us/s)	-2.1999999E-07	Resid phdelay (usec)	4.62747E-06	+/-	1.5E-07
Delay rate (us/s)	1.82823700126E+00	Apriori rate (us/s)	1.82823707237E+00	Resid rate (us/s)	-7.11128E-08	+/-	1.6E-09
Total phase (deg)		Apriori accel (us/s/s)	9.44603999518E-06	Resid phase (deg)	146.5	+/-	4.8

ph/seg (deg)	RMS 56.5	Theor. 11.6	Amplitude Search (1024X32)	0.680 +/- 0.029	0.655	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	57.0	20.3	Interp.	0.000	0.655	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
ph/frq (deg)	62.9	6.8	Inc. seg. avg.	1.006	0.655	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
amp/frq (%)	42.9	12.0	Inc. frq. avg.	0.897	0.655	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011		
					0.655	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

I: az 94.8 el 35.9 pa -57.5 Y: az 252.5 el 44.1 pa 49.2 u,v (fr/asec) -11153.853 -330.474 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/IY..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/IY.W.174.1JFKZ

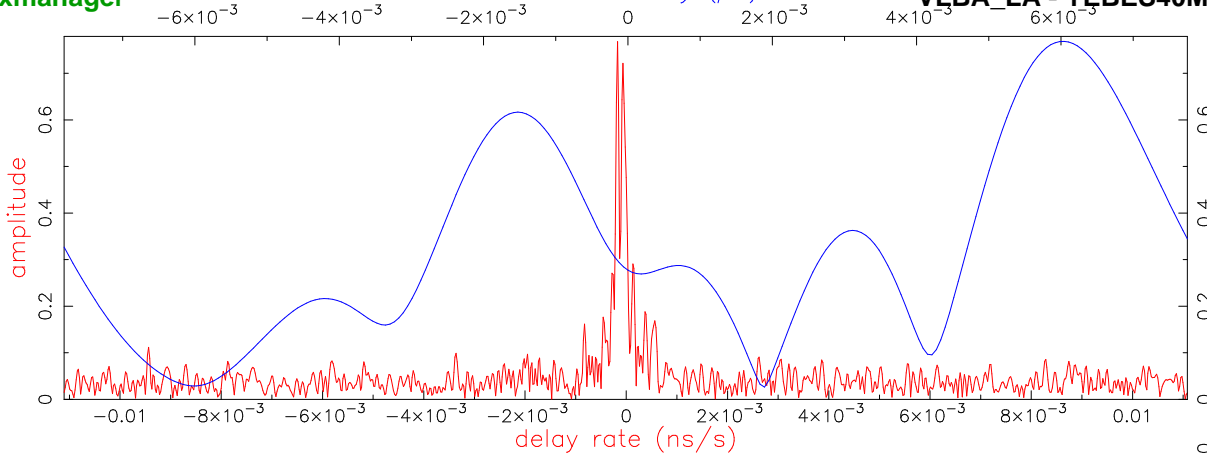
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, IY

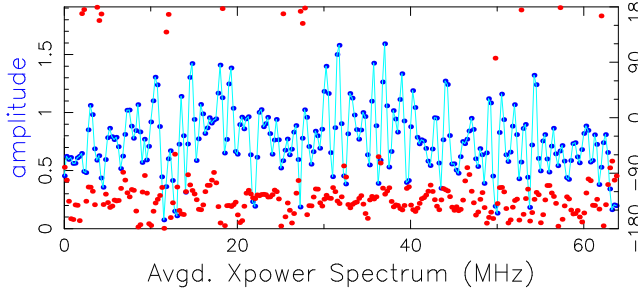
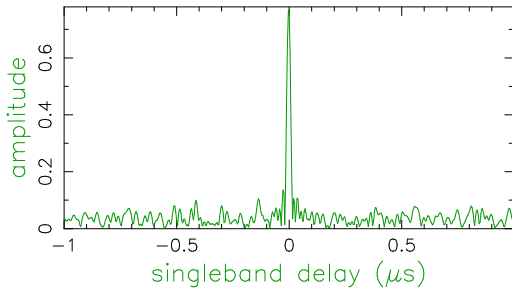
VLBA_LA - YEBES40M, fgroup W, pol RR

multiband delay (μ s)



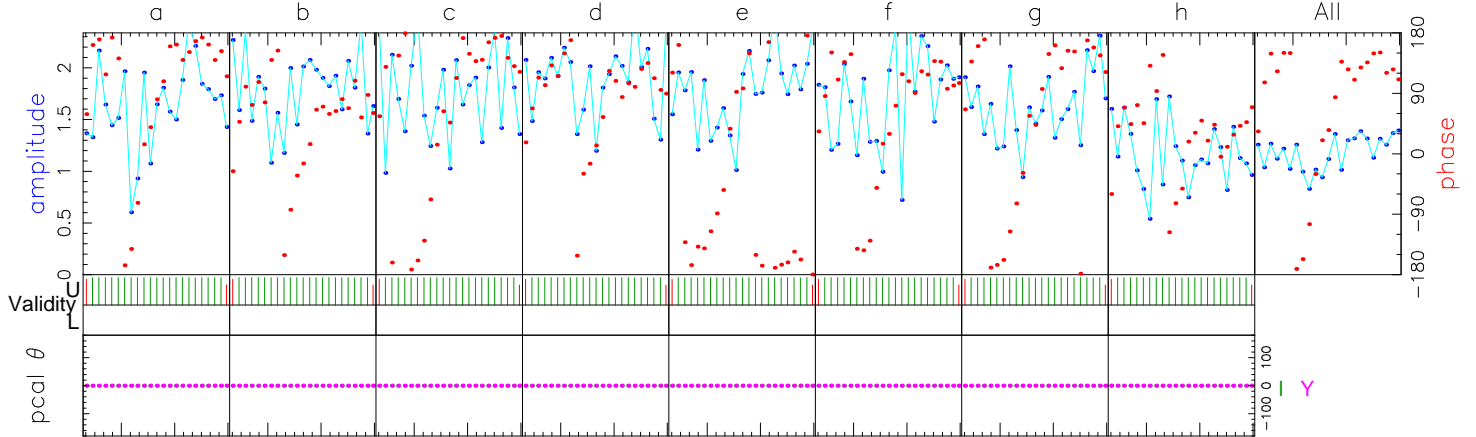
Fringe quality 5

SNR 27.1
 Int time 162.108
 Amp 0.779
 Phase 125.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.002361
 MBD 0.006074
 Fringe rate (Hz)
 -0.015713
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043016.90
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060647
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 23 segs, 14 APs / seg (7.17 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
	145.4	63.9	150.7	102.9	-169.6	111.0	152.3	33.4	Phase	125.7
	1.1	1.1	1.1	1.3	1.2	1.1	1.0	0.7	Ampl.	1.1
	256.1	255.8	256.5	255.5	255.8	255.7	255.7	254.1	Sbd box	256.4
U/L	319/0	319/0	319/0	319/0	319/0	319/0	319/0	319/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.18742858886E+03		Apriori delay (usec)		-2.18741903787E+03		Resid mbdelay (usec)		6.07402E-03	+/- 4.0E-05
Sband delay (usec)	-2.18742139887E+03		Apriori clock (usec)		-1.4123136E+01		Resid sbdelay (usec)		-2.36100E-03	+/- 3.2E-04
Phase delay (usec)	-2.18741903390E+03		Apriori clockrate (us/s)		-2.1999999E-07		Resid phdelay (usec)		3.97066E-06	+/- 1.3E-07
Delay rate (us/s)	1.82823689369E+00		Apriori rate (us/s)		1.82823707237E+00		Resid rate (us/s)		-1.78682E-07	+/- 1.4E-09
Total phase (deg)	57.1		Apriori accel (us/s/s)		9.44603999518E-06		Resid phase (deg)		125.7	+/- 4.2

	RMS	Theor.	Amplitude	0.779 +/- 0.029	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	60.9	10.1	Search (1024X32)	0.751	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/seg (%)	55.5	17.7	Interp.	0.000	Sample rate(MISamp/s): 128	nlags: 256 t_cohere infinite	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	56.3	6.0	Inc. seg. avg.	1.164	Data rate(Mb/s): 2048	ion window (TEC)	0.00 0.00	
amp/frq (%)	42.6	10.4	Inc. frq. avg.	1.059				

I: az 94.8 el 35.9 pa -57.5 Y: az 252.5 el 44.1 pa 49.2 u,v (fr/asec) -11153.853 -330.474 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/IY..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/IY.W.200.1JFKZ

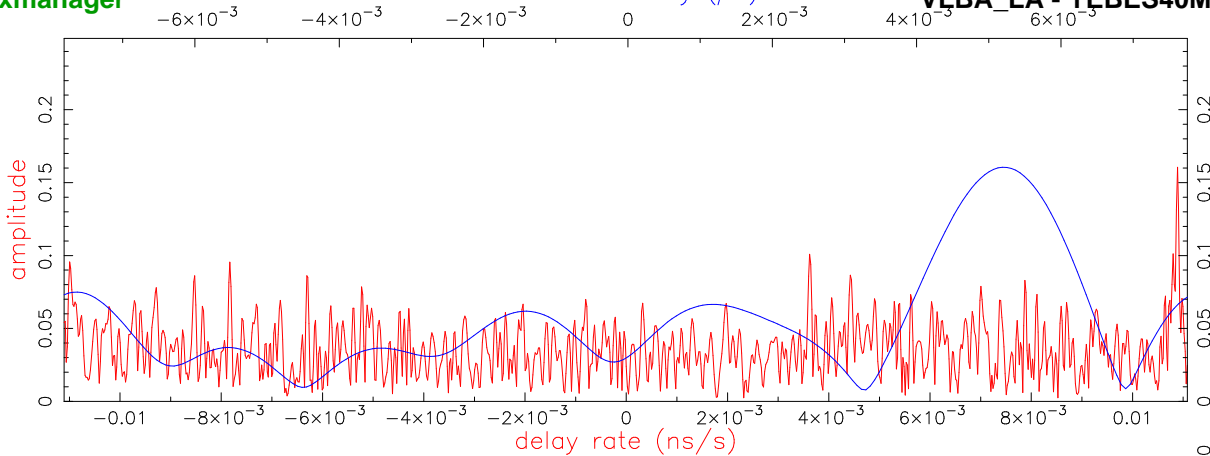
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, IY

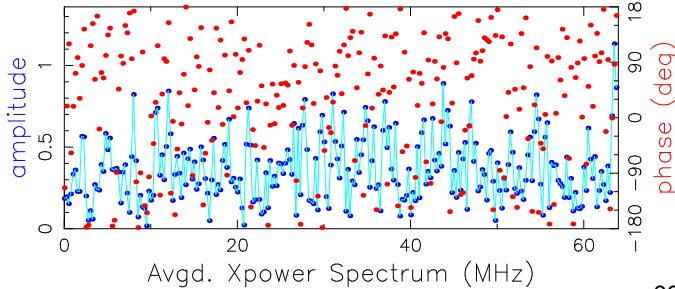
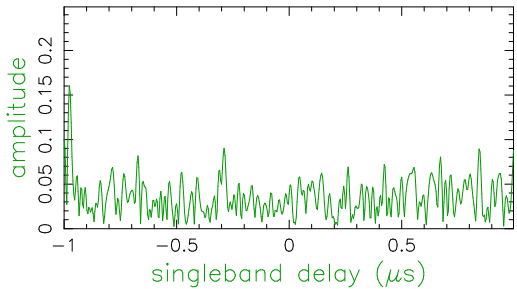
VLBA_LA - YEBES40M, fgroup W, pol LR

multiband delay (μ s)



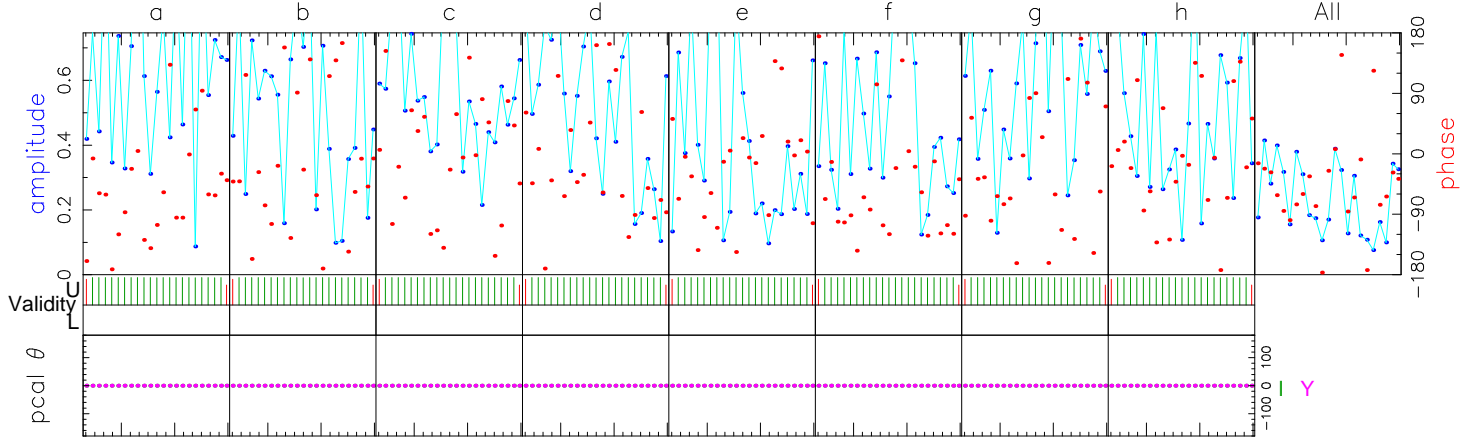
Fringe quality 0

SNR 5.6
 Int time 162.108
 Amp 0.249
 Phase -51.2
 PFD 9.1e-01
 Delays (us)
 SBD -0.975721
 MBD 0.005222
 Fringe rate (Hz) 0.958894
 Ion TEC 0.000
 Ref freq (MHz) 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043016.90
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060649
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 23 segs, 14 APs / seg (7.17 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
	-54.1	-70.1	-4.7	-39.7	-52.9	-75.6	-65.1	-29.3	Phase	-51.2
	0.5	0.2	0.2	0.2	0.3	0.3	0.2	0.2	Ampl.	0.2
	6.4	382.7	421.4	319.4	461.0	8.8	1.5	323.9	Sbd box	7.2
U/L	319/0	319/0	319/0	319/0	319/0	319/0	319/0	319/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.18839819097E+03		Apriori delay (usec)		-2.18741903787E+03		Resid mbdelay (usec)		5.22190E-03	+/- 1.9E-04
Sband delay (usec)	-2.18839475937E+03		Apriori clock (usec)		-1.4123136E+01		Resid sbdelay (usec)		-9.75721E-01	+/- 1.5E-03
Phase delay (usec)	-2.18741903949E+03		Apriori clockrate (us/s)		-2.1999999E-07		Resid phdelay (usec)		-1.61865E-06	+/- 6.4E-07
Delay rate (us/s)	1.82824797632E+00		Apriori rate (us/s)		1.82823707237E+00		Resid rate (us/s)		1.09040E-05	+/- 6.8E-09
Total phase (deg)			Apriori accel (us/s/s)		9.44603999518E-06		Resid phase (deg)		-51.2	+/- 20.4

	RMS	Theor.	Amplitude	0.249 +/- 0.044	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	67.7	48.9	Search (1024X32)	0.158	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	82.5	85.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	25.6	28.9	Inc. seg. avg.	0.267	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	46.4	50.4	Inc. frq. avg.	0.234	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

I: az 94.8 el 35.9 pa -57.5 Y: az 252.5 el 44.1 pa 49.2 u,v (fr/asec) -11153.853 -330.474 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/IY..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/IY.W.220.1JFKZ

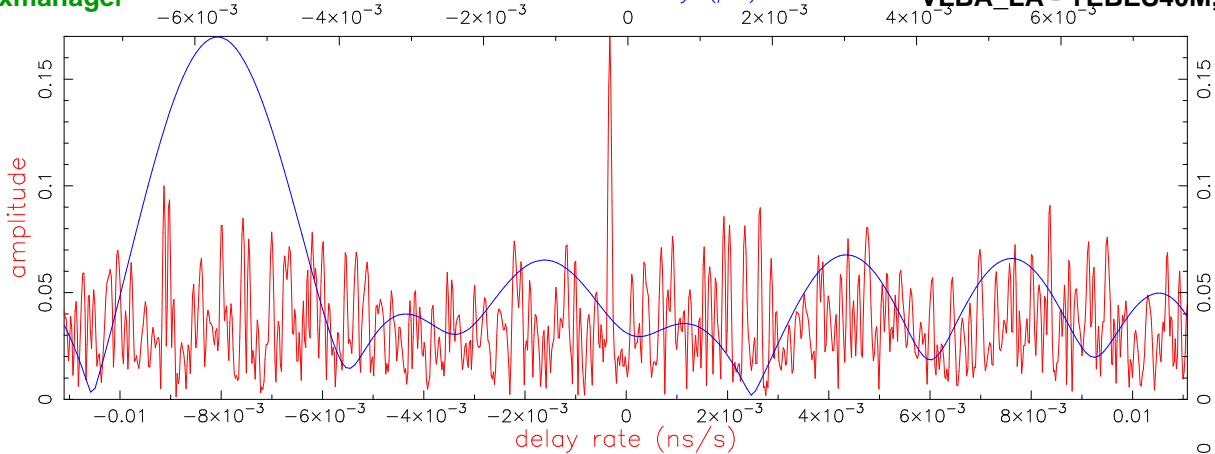
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, IY

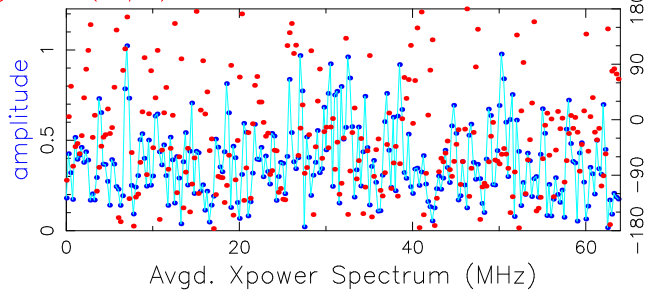
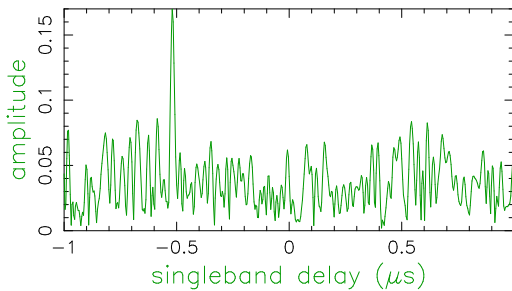
VLBA_LA - YEBES40M, fgroup W, pol RL

multiband delay (μ s)



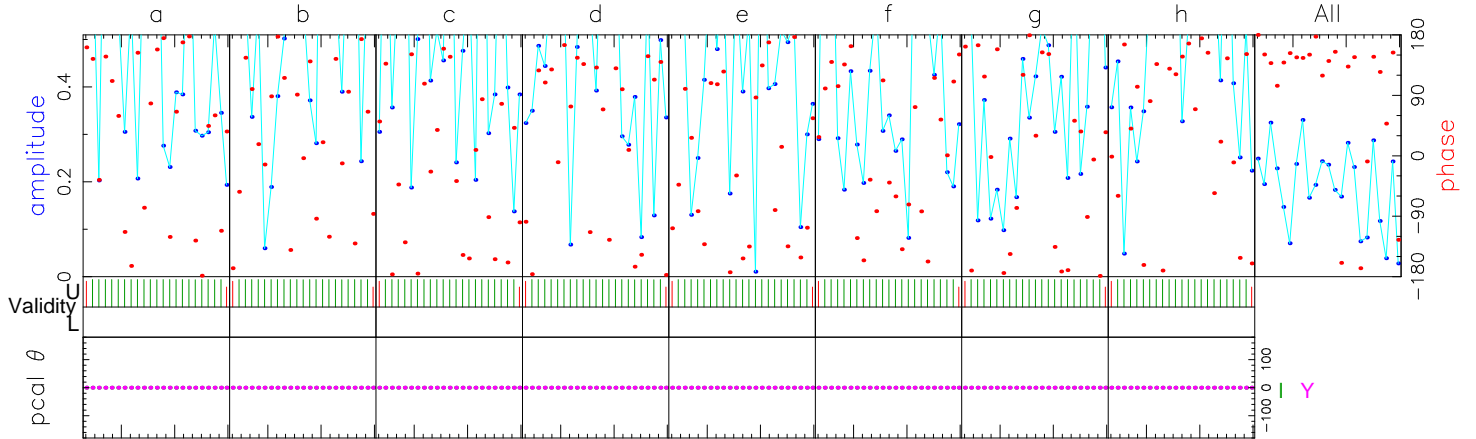
Fringe quality 0

SNR 5.9
 Int time 162.108
 Amp 0.170
 Phase 146.4
 PFD 3.4e-01
 Delays (us)
 SBD -0.518991
 MBD -0.005661
 Fringe rate (Hz)
 -0.028972
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043016.90
 Stop 043300.22
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060650
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 23 segs, 14 APs / seg (7.17 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	319/0	319/0	319/0	319/0	319/0	319/0	319/0	319/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-2.18794032410E+03									
Sband delay (usec)	-2.18793802937E+03									
Phase delay (usec)	-2.18741903325E+03									
Delay rate (us/s)	1.82823674292E+00									
Total phase (deg)			77.8							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									146.4	+/- 19.4
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									-0.008	0.008
mb window (us)									-0.011	0.011
dr window (ns/s)									0.00	0.00
ion window (TEC)									0.00	0.00

I: az 94.8 el 35.9 pa -57.5 Y: az 252.5 el 44.1 pa 49.2 u,v (fr/asec) -11153.853 -330.474 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/IY..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/IY.W.237.1JFKZ

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

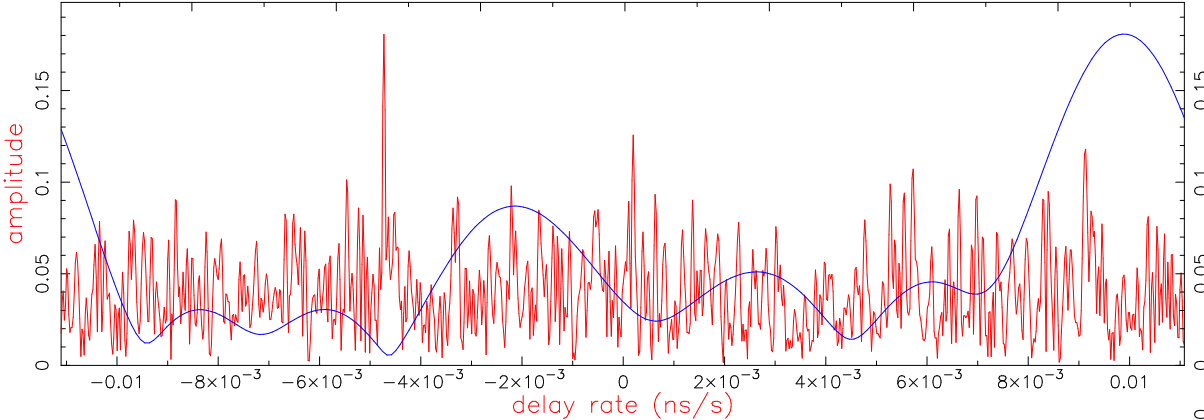
0235+164.1JFKZ, No0038, IZ

VLBA_LA - METSAHOV, fgroup W, pol LL

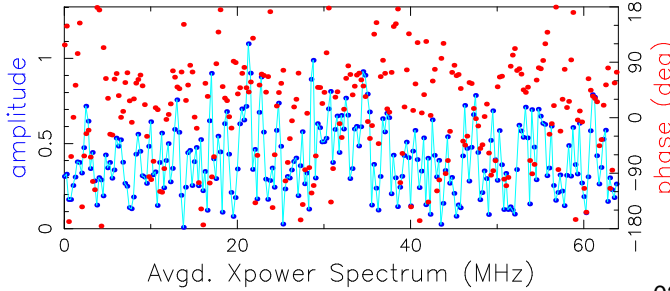
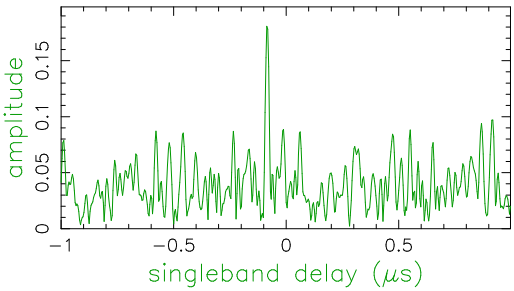
multiband delay (μ s)

-6×10^{-3} -4×10^{-3} -2×10^{-3} 0 2×10^{-3} 4×10^{-3} 6×10^{-3}

Fringe quality 0

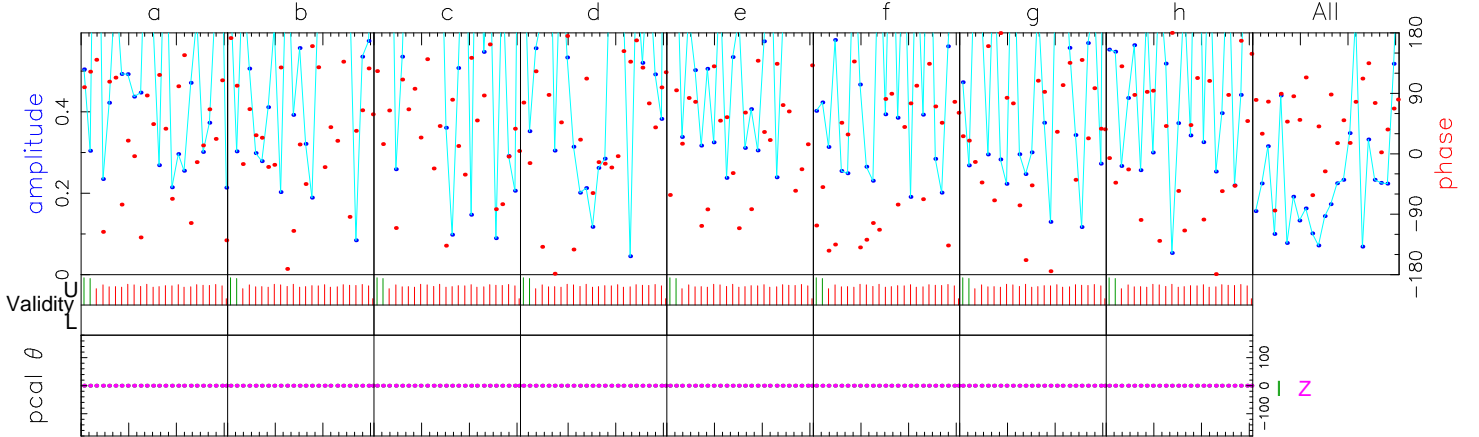


SNR 5.7
 Int time 128.976
 Amp 0.198
 Phase 62.6
 PFD 7.7e-01
 Delays (us)
 SBD -0.084293
 MBD 0.006959
 Fringe rate (Hz)
 -0.416494
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043259.20
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060644
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 24 segs, 15 APs / seg (7.68 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	347/0	347/0	347/0	347/0	347/0	347/0	347/0	347/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	4.38378244834E+03	Apriori delay (usec)	4.38386923898E+03	Resid mbdelay (usec)	6.95936E-03	+/-	1.9E-04
Sband delay (usec)	4.38378494598E+03	Apriori clock (usec)	-5.6241131E-01	Resid sbdelay (usec)	-8.42930E-02	+/-	1.5E-03
Phase delay (usec)	4.38386924096E+03	Apriori clockrate (us/s)	-1.1600001E-07	Resid phdelay (usec)	1.97801E-06	+/-	6.3E-07
Delay rate (us/s)	1.72337367124E+00	Apriori rate (us/s)	1.72337840736E+00	Resid rate (us/s)	-4.73612E-06	+/-	6.2E-09
Total phase (deg)	18.0	Apriori accel (us/s/s)	-3.25092877823E-05	Resid phase (deg)	62.6	+/-	20.1

ph/seg (deg)	53.9	Theor.	Amplitude	0.198 +/- 0.035	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	86.9	49.0	Search (1024X32)	0.173	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	31.5	28.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	36.5	49.6	Inc. seg. avg.	0.186	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
			Inc. frq. avg.	0.189	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

I: az 94.8 el 35.9 pa -57.5 Z: az 263.9 el 22.8 pa 31.0 u,v (fr/asec) -10532.752 -3233.163 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/IZ..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/IZ.W.179.1JFKZ

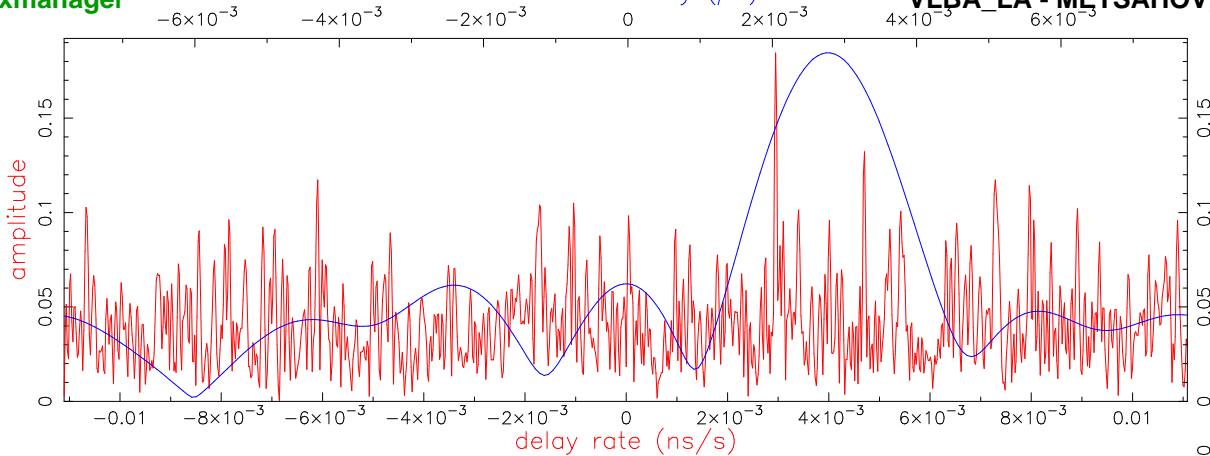
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, IZ

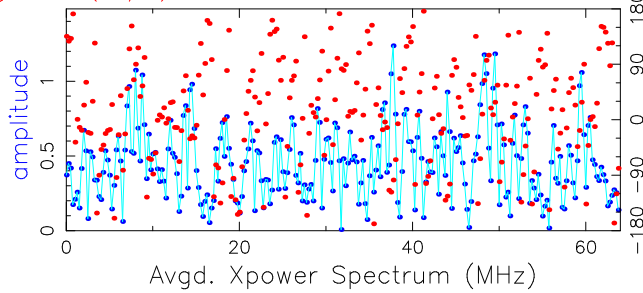
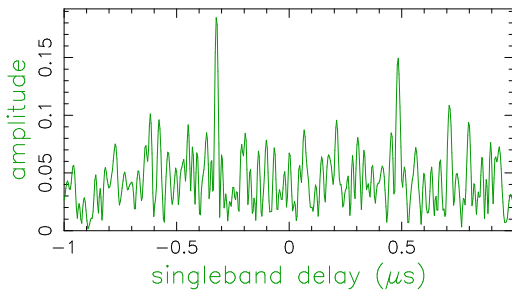
VLBA_LA - METSAHOV, fgroup W, pol RR

multiband delay (μ s)



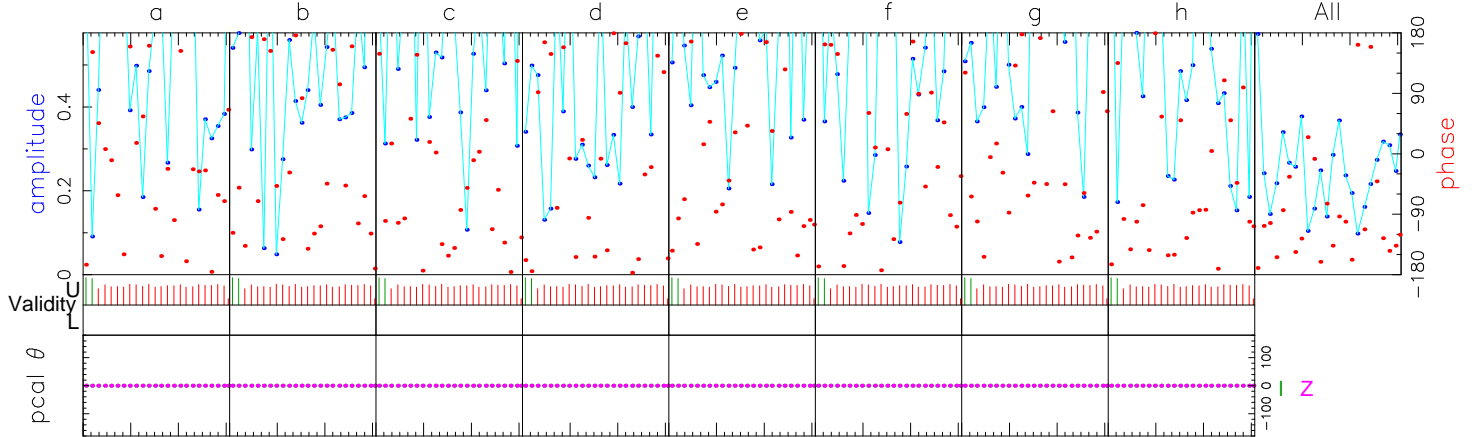
Fringe quality 0

SNR 5.8
 Int time 128.976
 Amp 0.192
 Phase -125.7
 PFD 5.7e-01
 Delays (us)
 SBD -0.322904
 MBD 0.002802
 Fringe rate (Hz)
 0.259499
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043259.20
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060646
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 24 segs, 15 APs / seg (7.68 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
	-103.2	-122.8	-124.3	-173.4	-129.9	-134.8	-89.5	-132.4	Phase	-125.7
	0.1	0.3	0.2	0.1	0.3	0.2	0.2	0.2	Ampl.	0.2
	441.1	223.4	9.7	22.8	57.9	100.9	304.0	343.6	Sbd box	174.3
U/L	347/0	347/0	347/0	347/0	347/0	347/0	347/0	347/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.38354391567E+03		Apriori delay (usec)		4.38386923898E+03		Resid mbdelay (usec)		2.80169E-03	+/- 1.9E-04
Sband delay (usec)	4.38354633473E+03		Apriori clock (usec)		-5.6241131E-01		Resid sbdelay (usec)		-3.22904E-01	+/- 1.5E-03
Phase delay (usec)	4.38386923501E+03		Apriori clockrate (us/s)		-1.1600001E-07		Resid phdelay (usec)		-3.96964E-06	+/- 6.2E-07
Delay rate (us/s)	1.72338135822E+00		Apriori rate (us/s)		1.72337840736E+00		Resid rate (us/s)		2.95086E-06	+/- 6.1E-09
Total phase (deg)	189.7		Apriori accel (us/s/s)		-3.25092877823E-05		Resid phase (deg)		-125.7	+/- 19.8

	RMS	Theor.	Amplitude	0.192 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	56.7	48.2	Search (1024X32)	0.183	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	70.1	84.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	26.6	28.0	Inc. seg. avg.	0.197	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	30.8	48.8	Inc. frq. avg.	0.179	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

I: az 94.8 el 35.9 pa -57.5 Z: az 263.9 el 22.8 pa 31.0 u,v (fr/asec) -10532.752 -3233.163 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/IZ..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/IZ.W.194.1JFKZ

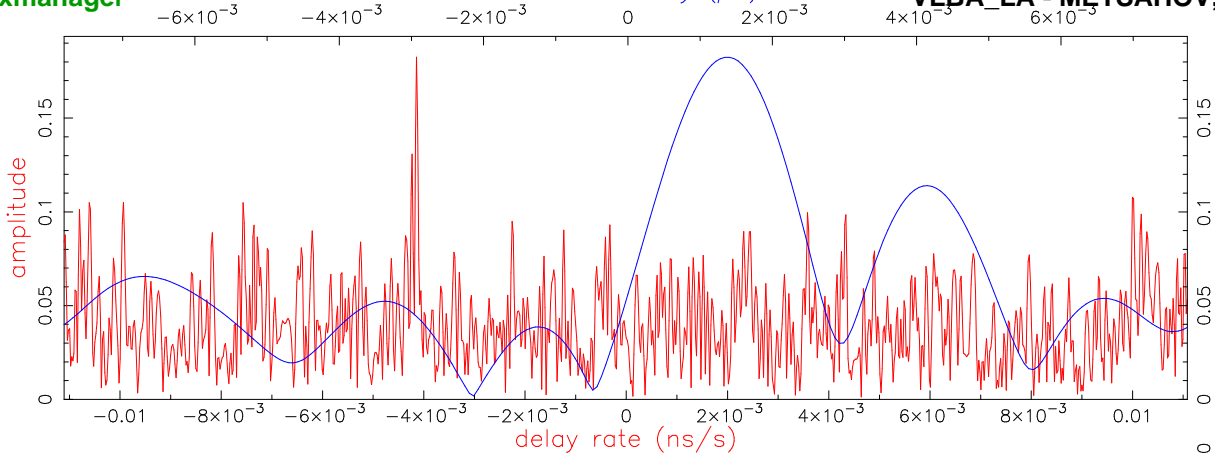
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, IZ

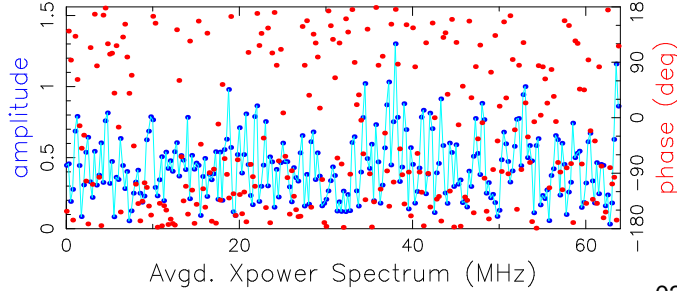
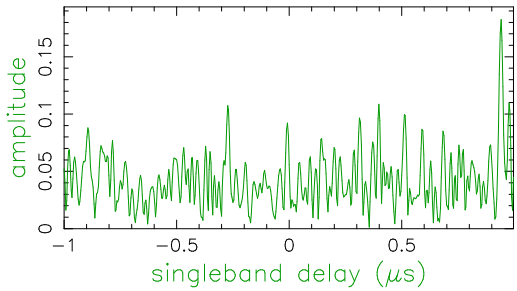
VLBA_LA - METSAHOV, fgroup W, pol LR

multiband delay (μ s)



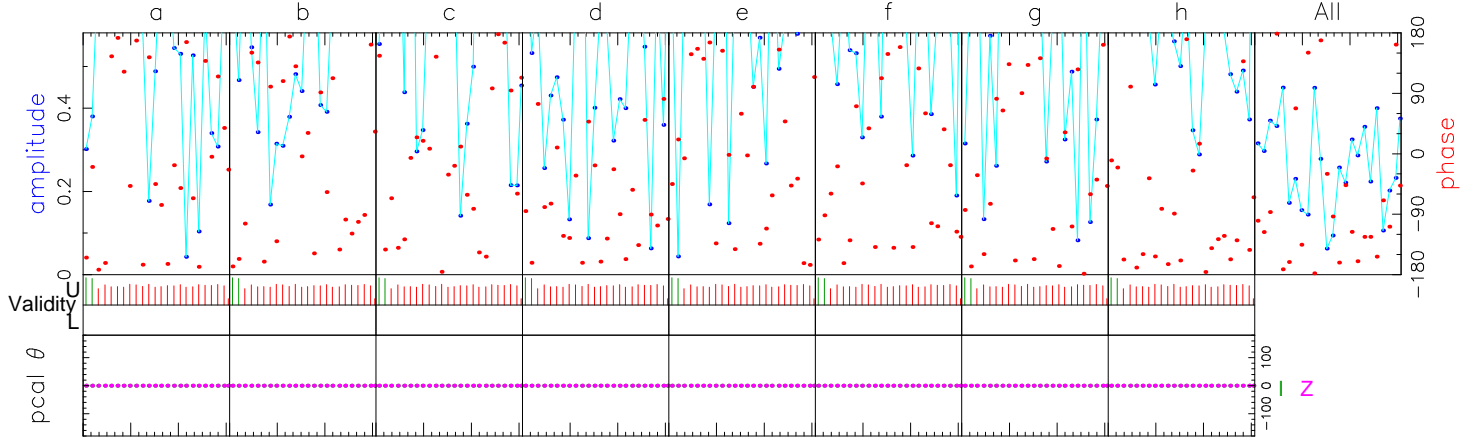
Fringe quality 0

SNR 5.7
 Int time 128.976
 Amp 0.194
 Phase -140.7
 PFD 8.2e-01
 Delays (us)
 SBD 0.940995
 MBD 0.001373
 Fringe rate (Hz)
 -0.364722
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043259.20
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060647
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 24 segs, 15 APs / seg (7.68 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	347/0	347/0	347/0	347/0	347/0	347/0	347/0	347/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		4.38480811214E+03			4.38386923898E+03				1.37316E-03	+/- 1.9E-04
Sband delay (usec)		4.38481023373E+03			-5.6241131E-01				9.40995E-01	+/- 1.5E-03
Phase delay (usec)		4.38386923454E+03			-1.1600001E-07				-4.44489E-06	+/- 6.4E-07
Delay rate (us/s)		1.72337425997E+00			1.72337840736E+00				-4.14739E-06	+/- 6.2E-09
Total phase (deg)			174.7		-3.25092877823E-05				-140.7	+/- 20.2
ph/seg (deg)	56.3	49.3		0.174						
amp/seg (%)	71.8	86.0		0.000						
ph/frq (deg)	28.9	28.6		0.203						
amp/frq (%)	41.2	49.9		0.189						

I: az 94.8 el 35.9 pa -57.5 Z: az 263.9 el 22.8 pa 31.0 u,v (fr/asec) -10532.752 -3233.163 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/IZ...1JFKZ Output file: /Exps/c202c/v1/1234/No0038/IZ.W.210.1JFKZ

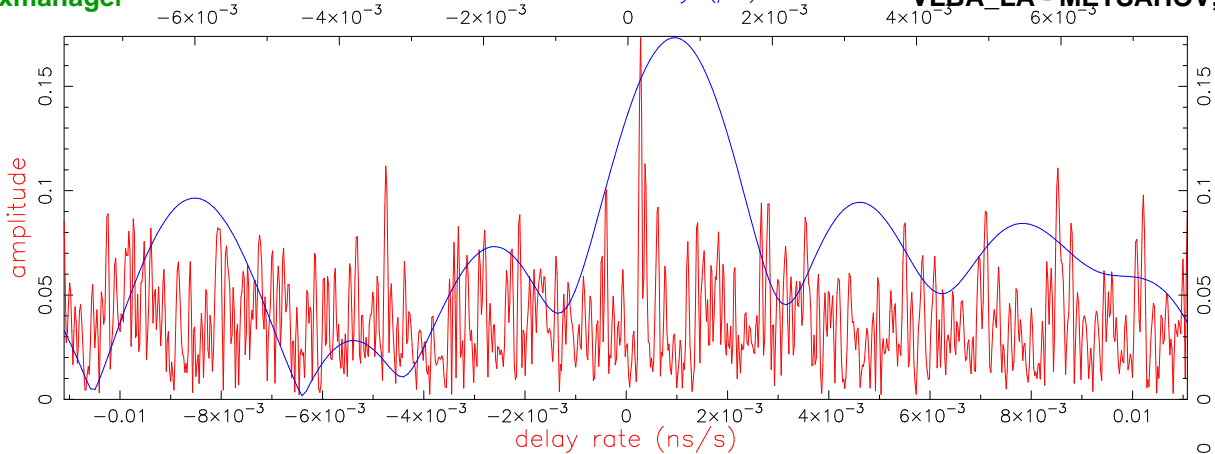
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0235+164.1JFKZ, No0038, IZ

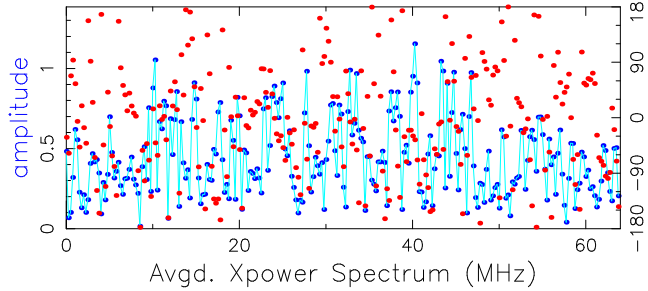
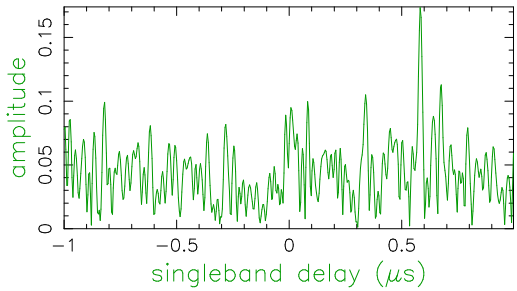
VLBA_LA - METSAHOV, fgroup W, pol RL

multiband delay (μ s)



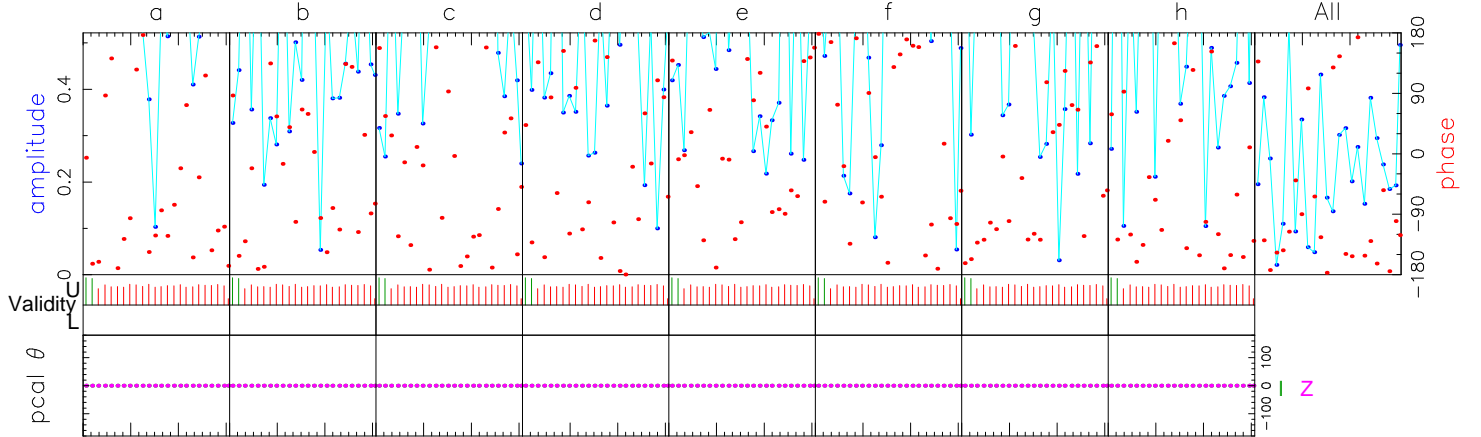
Fringe quality 0

SNR 5.4
 Int time 128.976
 Amp 0.174
 Phase -142.4
 PFD 1.0e+00
 Delays (us)
 SBD 0.582835
 MBD 0.000667
 Fringe rate (Hz) 0.024854
 Ion TEC 0.000
 Ref freq (MHz) 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 043000.00
 Stop 043259.20
 FRT 043130.00
 Corr/FF/build
 2021:039:055416
 2021:039:060650
 2020:247:085004
 RA & Dec (J2000)
 02h38m38.930107s
 +16°36'59.274536"

Amp. and Phase vs. time for each freq., 24 segs, 15 APs / seg (7.68 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	347/0	347/0	347/0	347/0	347/0	347/0	347/0	347/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	4.38444803107E+03		Apriori delay (usec)		4.38386923898E+03		Resid mbdelay (usec)		6.67085E-04	+/- 2.0E-04
Sband delay (usec)	4.38445207423E+03		Apriori clock (usec)		-5.6241131E-01		Resid sbdelay (usec)		5.82835E-01	+/- 1.6E-03
Phase delay (usec)	4.38386923448E+03		Apriori clockrate (us/s)		-1.1600001E-07		Resid phdelay (usec)		-4.49810E-06	+/- 6.7E-07
Delay rate (us/s)	1.72337868998E+00		Apriori rate (us/s)		1.72337840736E+00		Resid rate (us/s)		2.82625E-07	+/- 6.5E-09
Total phase (deg)	173.0		Apriori accel (us/s/s)		-3.25092877823E-05		Resid phase (deg)		-142.4	+/- 21.2

ph/seg (deg) 55.1 51.7 Search (1024X32) 0.171 Pcd mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 83.2 90.3 Interp. 0.000 Pcd rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 45.1 30.0 Inc. seg. avg. 0.168 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 61.7 52.4 Inc. frq. avg. 0.171 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 I: az 94.8 el 35.9 pa -57.5 Z: az 263.9 el 22.8 pa 31.0 u,v (fr/asec) -10532.752 -3233.163 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0038/IZ..1JFKZ Output file: /Exps/c202c/v1/1234/No0038/IZ.W.229.1JFKZ