

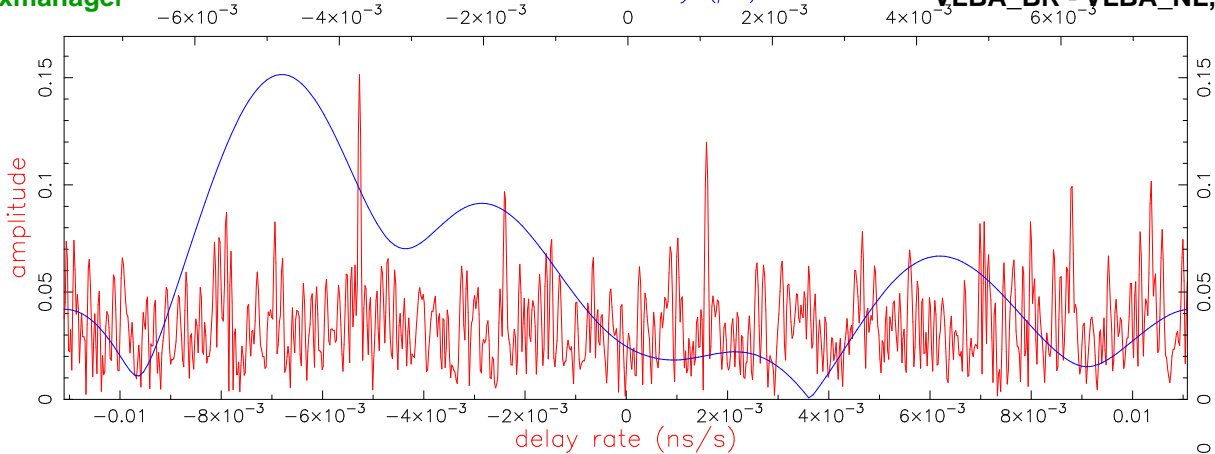
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, bn

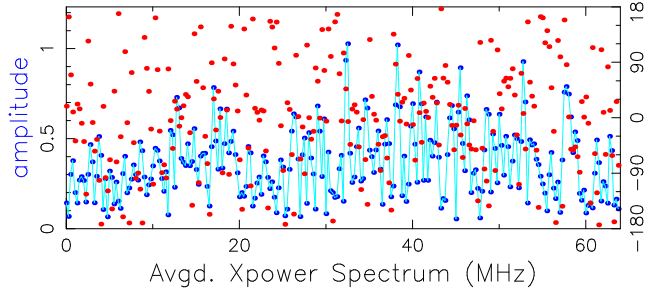
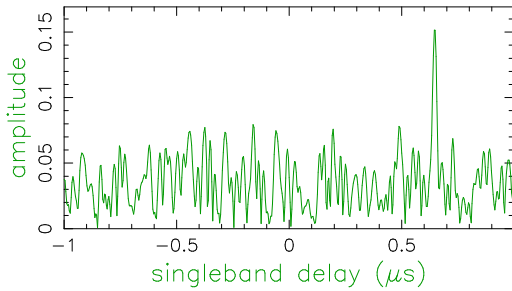
VLBA_BR - VLBA_NL, fgroup W, pol RR

multiband delay (μ s)



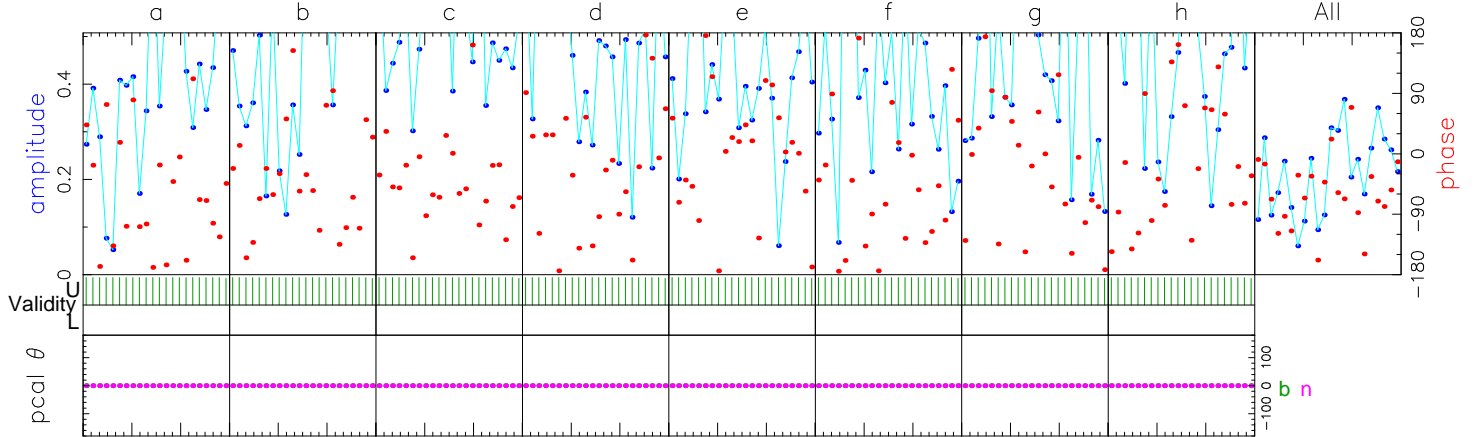
Fringe quality 0

SNR 5.6
 Int time 179.978
 Amp 0.169
 Phase -55.6
 PFD 8.6e-01
 Delays (us)
 SBD 0.646464
 MBD -0.004759
 Fringe rate (Hz)
 -0.463618
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141913
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 -1°20'33.065613"

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
	-84.9	-55.8	-52.6	-6.2	-3.5	-94.1	-40.6	-82.9	Phase	-55.6
	0.2	0.2	0.4	0.1	0.1	0.2	0.1	0.2	Ampl.	0.2
	444.0	423.8	421.8	121.8	500.2	262.0	98.6	145.6	Sbd box	422.5
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	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.27322947923E+03		Apriori delay (usec)		-2.27388097070E+03		Resid mbdelay (usec)		-4.75852E-03	+/- 1.9E-04
Sband delay (usec)	-2.27323450720E+03		Apriori clock (usec)		-1.9488440E+00		Resid sbdelay (usec)		6.46464E-01	+/- 1.5E-03
Phase delay (usec)	-2.27388097246E+03		Apriori clockrate (us/s)		-5.0000000E-07		Resid phdelay (usec)		-1.75702E-06	+/- 6.4E-07
Delay rate (us/s)	5.21176209729E-01		Apriori rate (us/s)		5.21181481712E-01		Resid rate (us/s)		-5.27198E-06	+/- 6.2E-09
Total phase (deg)			Apriori accel (us/s/s)		1.18808655222E-05		Resid phase (deg)		-55.6	+/- 20.3

ph/seg (deg) 51.9 47.6 Search (1024X32) 0.150 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 67.4 83.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 37.6 28.7 Inc. seg. avg. 0.174 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 56.0 50.1 Inc. frq. avg. 0.167 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 155.2 el 37.8 pa -16.2 n: az 192.7 el 46.2 pa 9.5 u,v (fr/asec) -3042.726 683.370 ion window (TEC) 0.00 0.00
 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/bn..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/bn.W.23.1JLJ5P

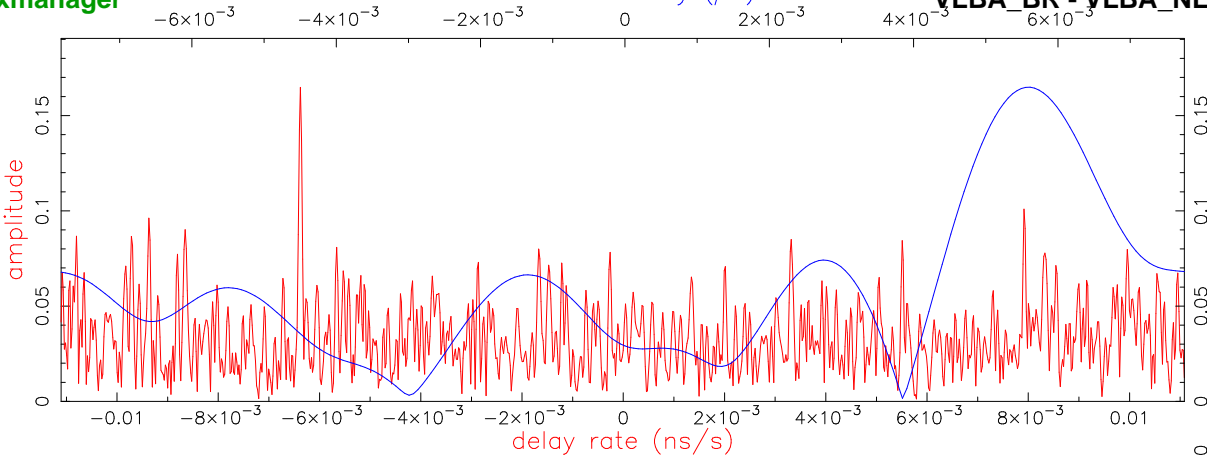
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, bn

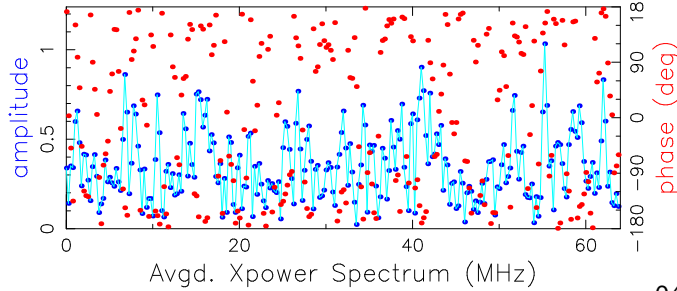
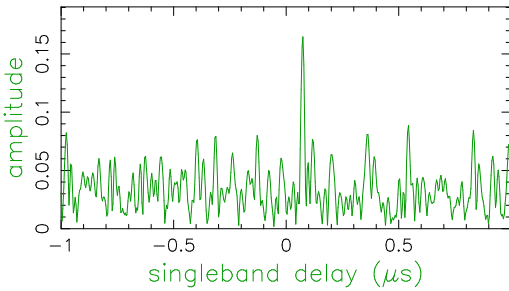
VLBA_BR - VLBA_NL, fgroup W, pol LR

multiband delay (μ s)



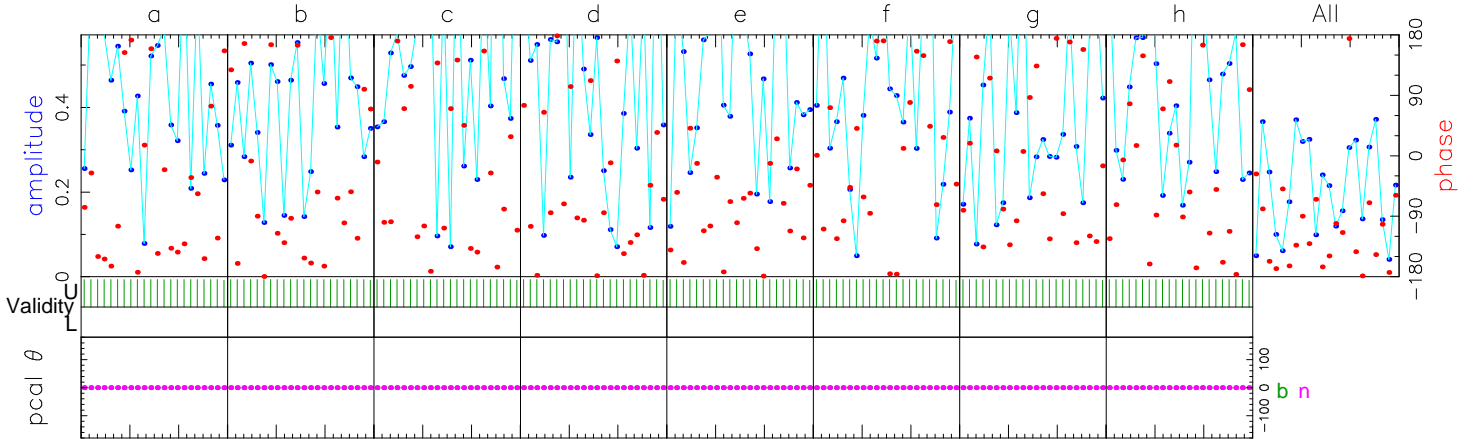
Fringe quality 0

SNR 6.1
 Int time 179.978
 Amp 0.191
 Phase -126.0
 PFD 1.5e-01
 Delays (us)
 SBD 0.073312
 MBD 0.005555
 Fringe rate (Hz)
 -0.560942
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141915
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 -1°20'33.065613"

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
	-133.3	-133.5	-148.4	-122.5	-72.5	-144.6	-122.4	-154.6	Phase	-126.0
	0.3	0.2	0.3	0.2	0.3	0.1	0.2	0.2	Ampl.	0.2
	273.7	317.4	280.4	112.1	276.4	444.6	372.8	181.9	Sbd box	275.8
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	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.27381291584E+03		Apriori delay (usec)		-2.27388097070E+03		Resid mbdelay (usec)		5.55486E-03	+/- 1.8E-04
Sband delay (usec)	-2.27380765820E+03		Apriori clock (usec)		-1.9488440E+00		Resid sbdelay (usec)		7.33125E-02	+/- 1.4E-03
Phase delay (usec)	-2.27388097469E+03		Apriori clockrate (us/s)		-5.0000000E-07		Resid phdelay (usec)		-3.98033E-06	+/- 6.0E-07
Delay rate (us/s)	5.21175103016E-01		Apriori rate (us/s)		5.21181481712E-01		Resid rate (us/s)		-6.37870E-06	+/- 5.7E-09
Total phase (deg)			Apriori accel (us/s/s)		1.18808655222E-05		Resid phase (deg)		-126.0	+/- 18.9

	RMS	Theor.	Amplitude	0.191 +/- 0.031	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	46.5	44.2	Search (1024X32)	0.161	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	71.4	77.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	27.9	26.7	Inc. seg. avg.	0.189	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	43.8	46.5	Inc. frq. avg.	0.193	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 155.2 el 37.8 pa -16.2 n: az 192.7 el 46.2 pa 9.5 u,v (fr/asec) -3042.726 683.370 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/bn..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/bn.W.45.1JLJ5P

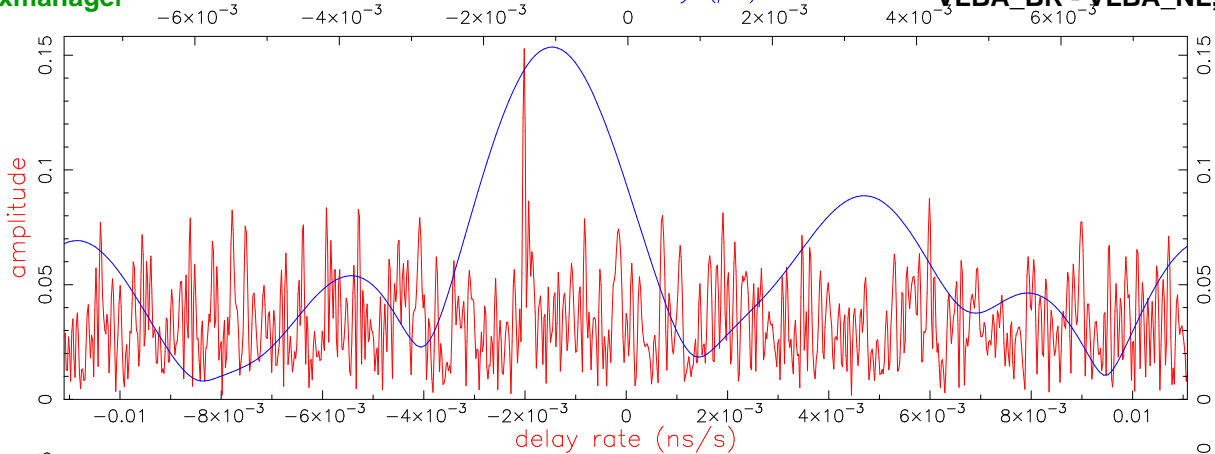
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, bn

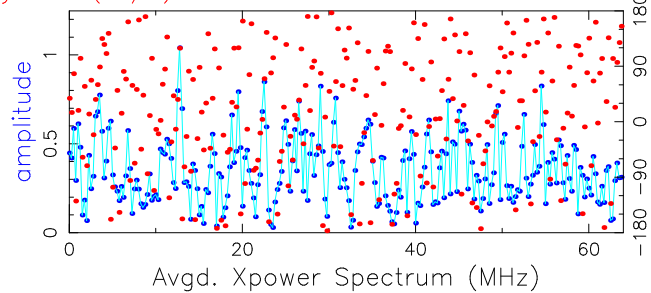
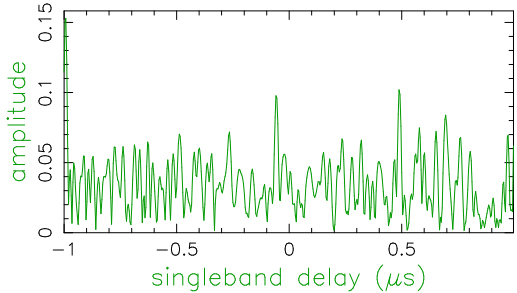
VLBA_BR - VLBA_NL, fgroup W, pol RL

multiband delay (μ s)



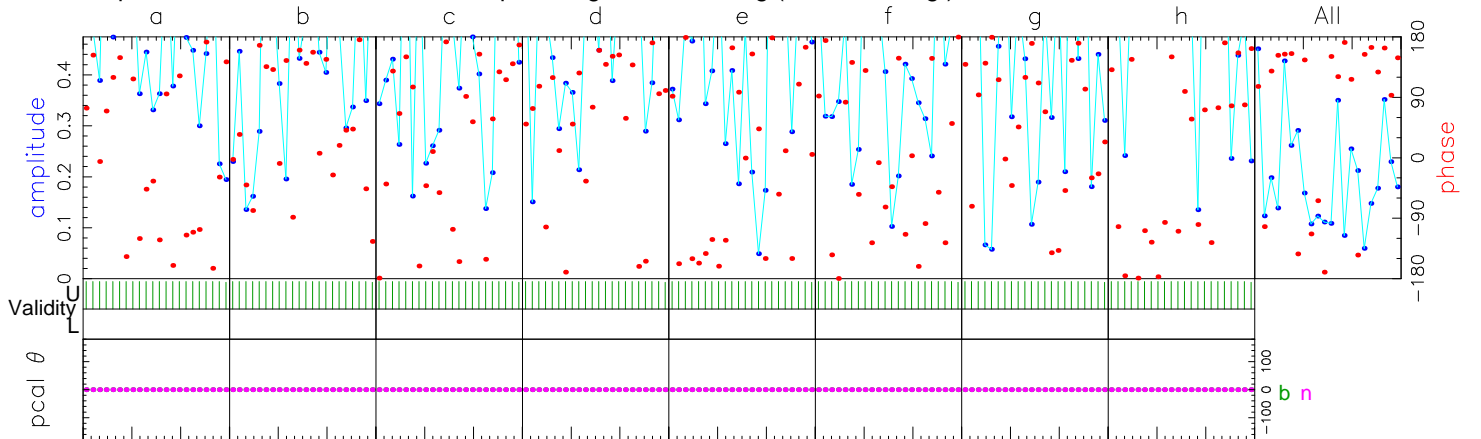
Fringe quality 0

SNR 5.7
 Int time 179.978
 Amp 0.158
 Phase 151.2
 PFD 7.2e-01
 Delays (us)
 SBD -0.993828
 MBD -0.001157
 Fringe rate (Hz)
 -0.177390
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141918
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 -1°20'33.065613"

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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:n	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-2.27488212735E+03									
Sband delay (usec)	-2.27487479820E+03									
Phase delay (usec)	-2.27388096593E+03									
Delay rate (us/s)	5.21179464545E-01									
Total phase (deg)			-51.8							
Apriori delay (usec)					-2.27388097070E+03					
Apriori clock (usec)					-1.9488440E+00					
Apriori clockrate (us/s)					-5.0000000E-07					
Apriori rate (us/s)					5.21181481712E-01					
Apriori accel (us/s/s)					1.18808655222E-05					
Resid mbdelay (usec)									-1.15665E-03	+/- 1.9E-04
Resid sbdelay (usec)									-9.93828E-01	+/- 1.5E-03
Resid phdelay (usec)									4.77466E-06	+/- 6.3E-07
Resid rate (us/s)									-2.01717E-06	+/- 6.1E-09
Resid phase (deg)									151.2	+/- 20.0
Pcal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5							
Pcal rate:	0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000		1.000			
Bits/sample:	2x2		SampCntNorm: enabled		mb window (us)		-0.008		0.008	
Sample rate (MSamp/s):	128		dr window (ns/s)		-0.011		0.011			
Data rate (Mb/s):	2048		nlags: 256		t_cohere infinite		ion window (TEC)		0.00	
ph/seg (deg)	52.5	46.9	Amplitude	0.158 +/- 0.028	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
amp/seg (%)	76.2	81.9	Search (1024X32)	0.152	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000	
ph/frq (deg)	37.0	28.3	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	
amp/frq (%)	48.2	49.4	Inc. seg. avg.	0.157	Sample rate (MSamp/s): 128		dr window (ns/s)		-0.011 0.011	
			Inc. frq. avg.	0.158	Data rate (Mb/s): 2048		nlags: 256		t_cohere infinite	
b: az 155.2 el 37.8 pa -16.2	n: az 192.7 el 46.2 pa 9.5		u,v (fr/asec) -3042.726 683.370						simultaneous interpolator	

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/bn..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/bn.W.66.1JLJ5P

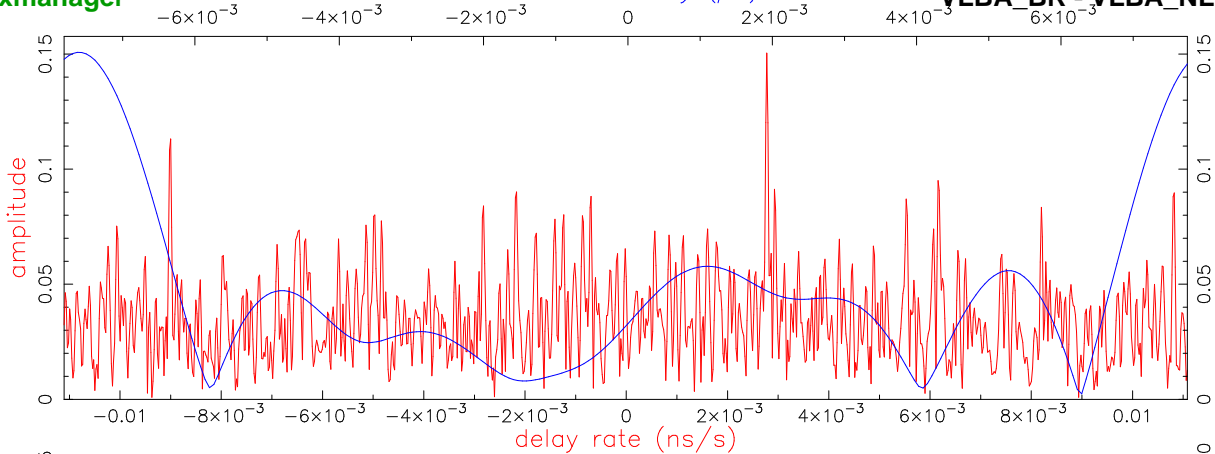
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, bn

VLBA_BR - VLBA_NL, fgroup W, pol LL

multiband delay (μ s)



Fringe quality 0

SNR 5.6

Int time 179.978

Amp 0.158

Phase -132.3

PFD 8.8e-01

Delays (us)

SBD 0.052827

MBD -0.007535

Fringe rate (Hz)

0.244029

Ion TEC 0.000

Ref freq (MHz)

87940.0000

AP (sec) 0.512

Exp. c202c

Exper # 16383

Yr:day 2020:286

Start 094000.00

Stop 094300.22

FRT 094130.00

Corr/FF/build

2021:041:222607

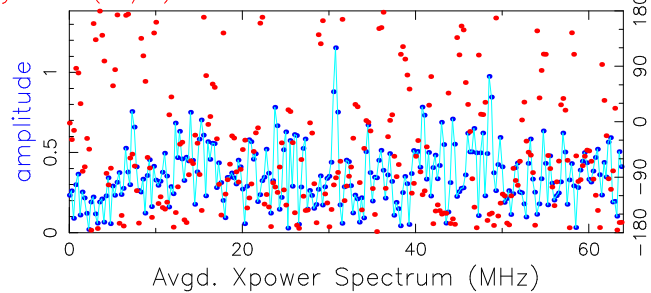
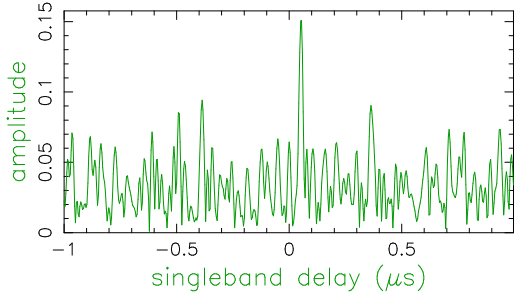
2021:042:141911

2020:247:085004

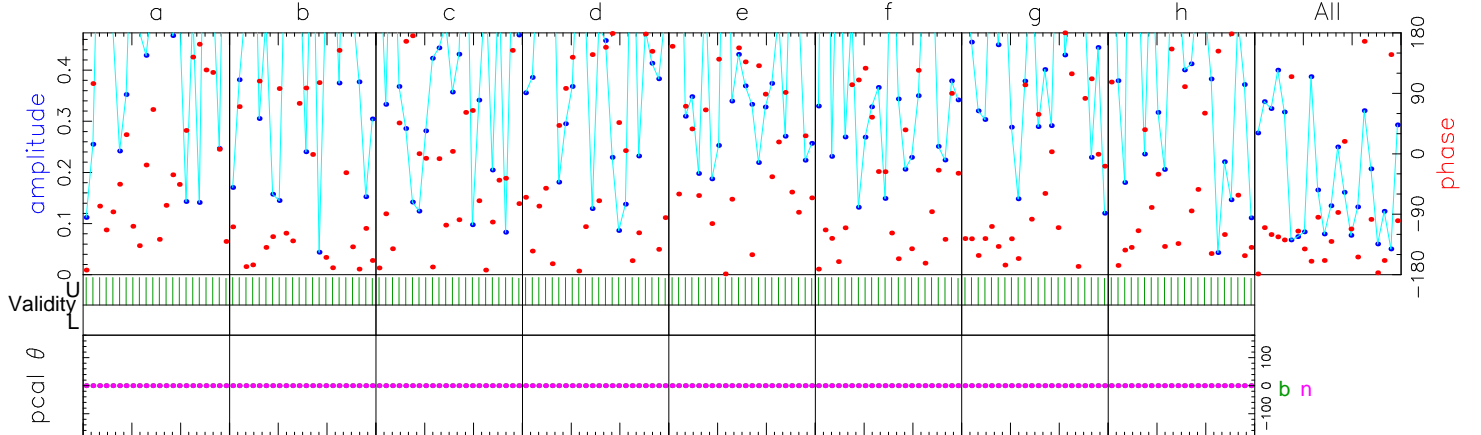
RA & Dec (J2000)

04h23m15.800724s

--1°20'33.065613"



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
	-108.7	-151.1	-112.4	-136.5	-100.7	-134.2	-139.6	-133.8	Phase	-132.3
	0.2	0.2	0.1	0.2	0.0	0.2	0.2	0.2	Ampl.	0.1
	158.6	161.7	63.3	369.9	408.5	92.9	131.6	37.7	Sbd box	270.5
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	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.27382600606E+03		Apriori delay (usec)		-2.27388097070E+03		Resid mbdelay (usec)		-7.53535E-03	+/- 1.9E-04
Sband delay (usec)	-2.27382814345E+03		Apriori clock (usec)		-1.9488440E+00		Resid sbdelay (usec)		5.28273E-02	+/- 1.5E-03
Phase delay (usec)	-2.27388097488E+03		Apriori clockrate (us/s)		-5.0000000E-07		Resid phdelay (usec)		-4.17997E-06	+/- 6.4E-07
Delay rate (us/s)	5.21184256660E-01		Apriori rate (us/s)		5.21181481712E-01		Resid rate (us/s)		2.77495E-06	+/- 6.2E-09
Total phase (deg)			Apriori accel (us/s/s)		1.18808655222E-05		Resid phase (deg)		-132.3	+/- 20.3

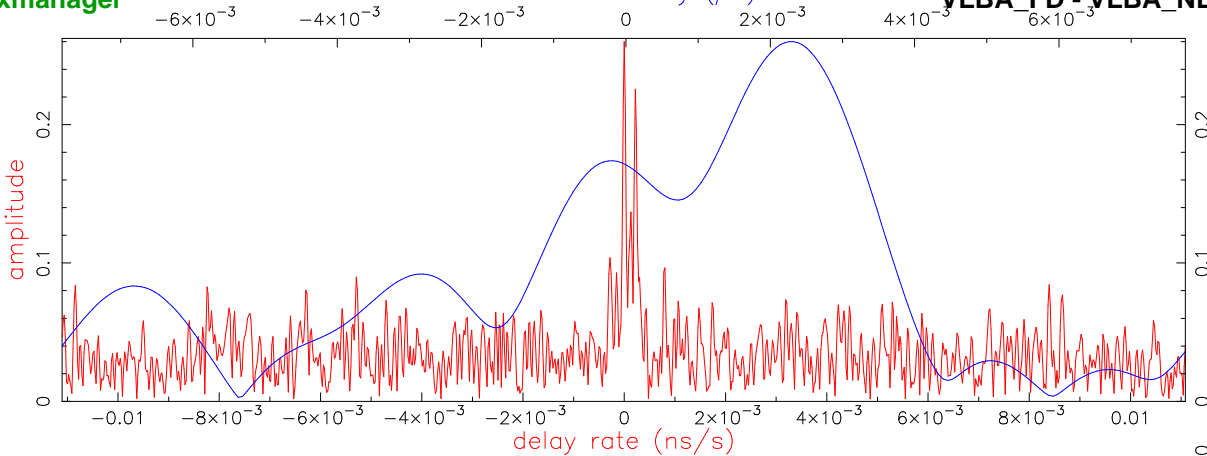
	RMS	Theor.	Amplitude	0.158 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	52.1	47.7	Search (1024X32)	0.150	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	79.9	83.2	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	19.9	28.7	Inc. seg. avg.	0.150	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	39.2	50.2	Inc. frq. avg.	0.141	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 155.2 el 37.8 pa -16.2 n: az 192.7 el 46.2 pa 9.5 u,v (fr/asec) -3042.726 683.370 simultaneous interpolator

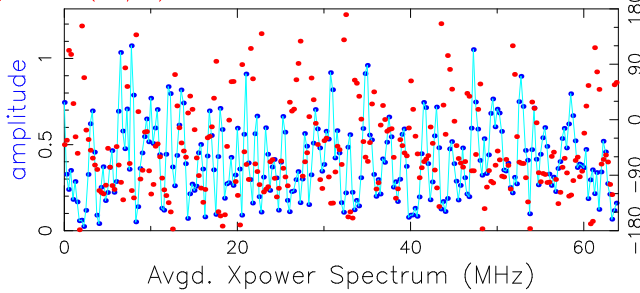
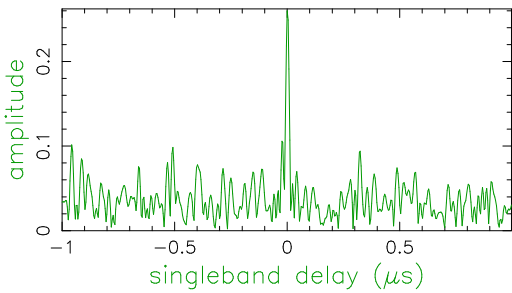
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/bn..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/bn.W.8.1JLJ5P

multiband delay (μ s)

Fringe quality 9

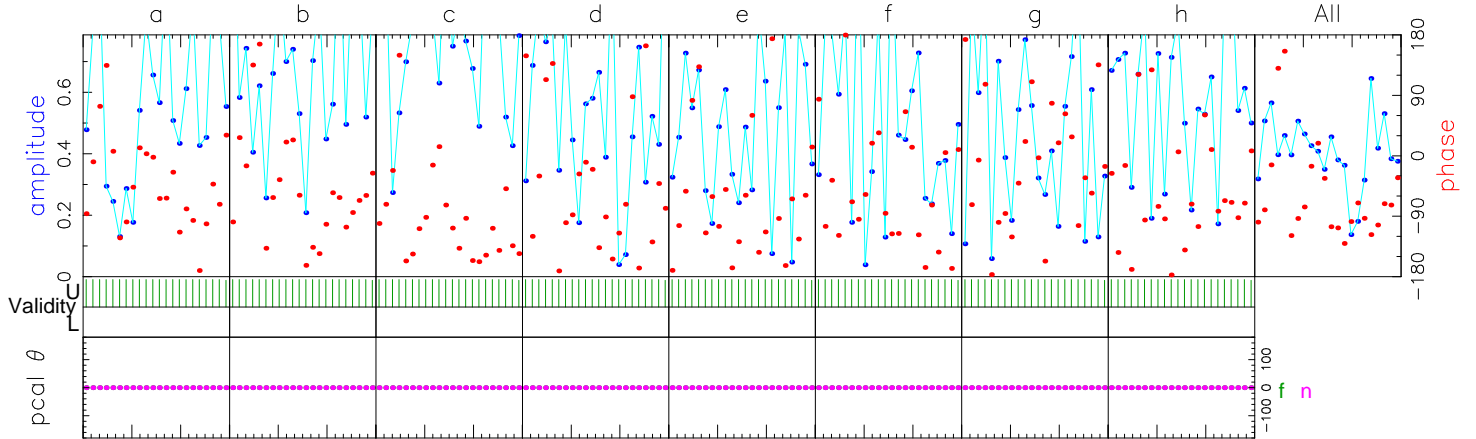


SNR 9.6
Int time 179.976
Amp 0.262
Phase -83.5
PFD 1.3e-13
Delays (us)
SBD 0.001142
MBD 0.002309
Fringe rate (Hz) 0.000465
Ion TEC 0.000
Ref freq (MHz) 87940.0000
AP (sec) 0.512



Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2021:041:222607
2021:042:141912
2020:247:085004
RA & Dec (J2000)
04h23m15.800724s
--1°20'33.065613"

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

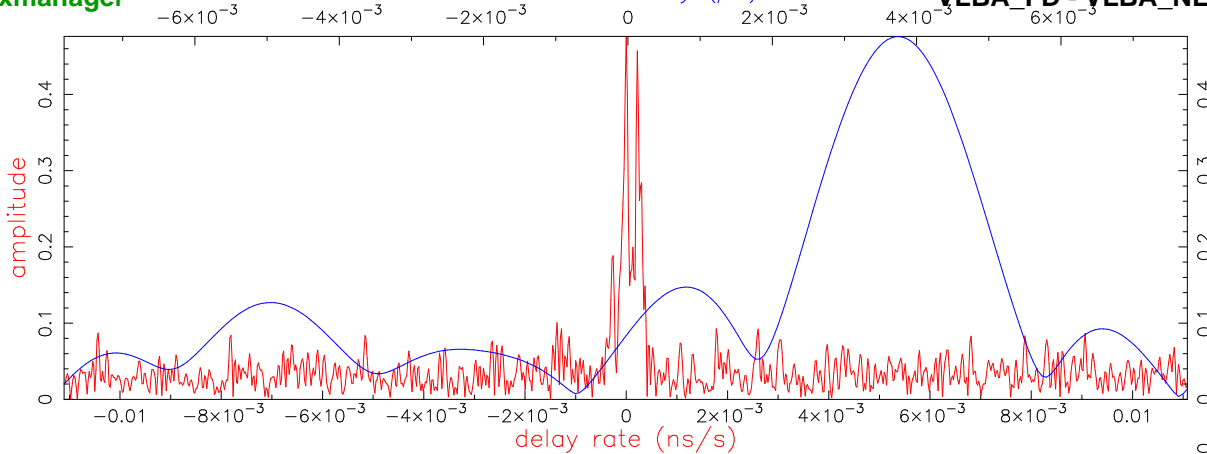


	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-44.2	-67.6	-110.9	-117.3	-109.8	-85.8	-22.9	-69.7	Phase	-83.5
	0.3	0.4	0.6	0.2	0.2	0.2	0.1	0.3	Ampl.	0.3
	36.7	257.7	256.6	46.8	442.1	423.1	317.4	7.7	Sbd box	257.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.68994714900E+03		Apriori delay (usec)		2.68994483987E+03		Resid mbdelay (usec)		2.30912E-03 +/- 1.1E-04	
Sband delay (usec)	2.68994598212E+03		Apriori clock (usec)		7.6974316E+00		Resid sbdelay (usec)		1.14225E-03 +/- 9.0E-04	
Phase delay (usec)	2.68994483723E+03		Apriori clockrate (us/s)		-1.0000003E-07		Resid phdelay (usec)		-2.63728E-06 +/- 3.8E-07	
Delay rate (us/s)	2.59302491736E-01		Apriori rate (us/s)		2.59302486445E-01		Resid rate (us/s)		5.29147E-09 +/- 3.6E-09	
Total phase (deg)			Apriori accel (us/s/s)		-1.38643352526E-05		Resid phase (deg)		-83.5 +/- 11.9	

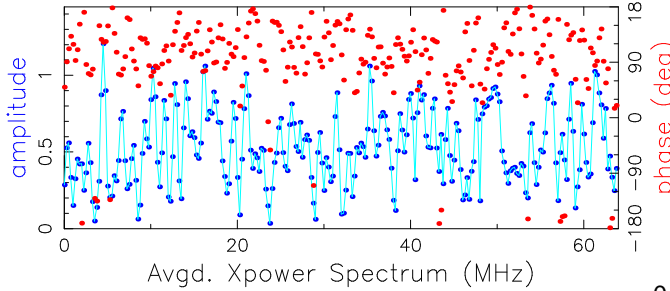
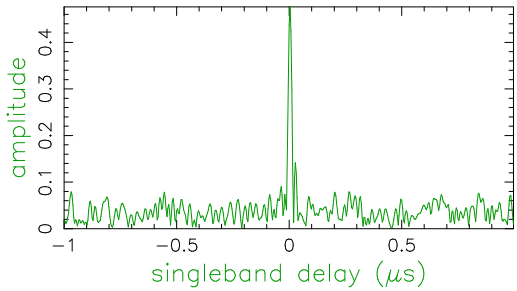
ph/seg (deg) 55.7 27.9 Amplitude 0.262 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 70.1 48.7 Interp. 0.254 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 37.1 16.8 Inc. seg. avg. 0.365 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 52.1 29.4 Inc. frq. avg. 0.284 Sample rate (MSamp/s): 128 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 173.2 el 57.9 pa -5.4 n: az 192.7 el 46.2 pa 9.5 u,v (fr/asec) -1521.038 -1392.352 ion window (TEC) 0.00 0.00
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/fn..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/fn.W.14.1JLJ5P simultaneous interpolator

multiband delay (μ s)

Fringe quality 9

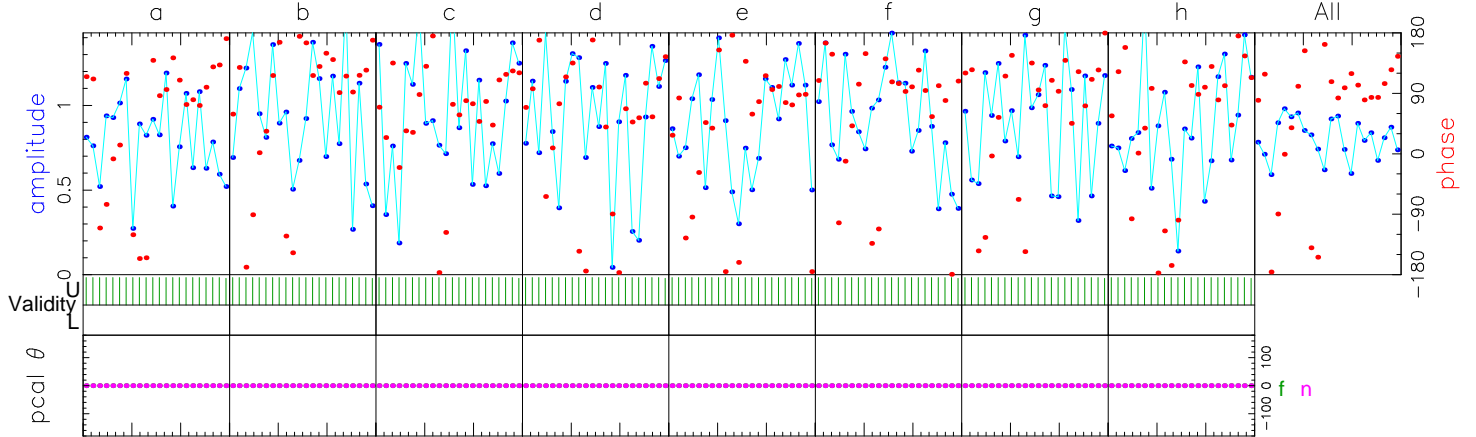


SNR 17.5
Int time 179.976
Amp 0.476
Phase 110.4
PFD 0.0e+00
Delays (us)
SBD 0.003625
MBD 0.003738
Fringe rate (Hz)
0.000851
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512



Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2021:041:222607
2021:042:141915
2020:247:085004
RA & Dec (J2000)
04h23m15.800724s
--1°20'33.065613"

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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:n	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	2.68994857793E+03				2.68994483987E+03				3.73806E-03	+/- 6.2E-05
Sband delay (usec)	2.68994846487E+03				7.6974316E+00				3.62500E-03	+/- 4.9E-04
Phase delay (usec)	2.68994484336E+03				-1.0000003E-07				3.48621E-06	+/- 2.1E-07
Delay rate (us/s)	2.59302496126E-01				2.59302486445E-01				9.68067E-09	+/- 2.0E-09
Total phase (deg)			189.0						110.4	+/- 6.6
	RMS	Theor.	Amplitude	0.476 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	60.4	15.4	Search (1024X32)	0.456	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	73.0	26.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	15.9	9.3	Inc. seg. avg.	0.777	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	16.3	16.2	Inc. frq. avg.	0.486	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

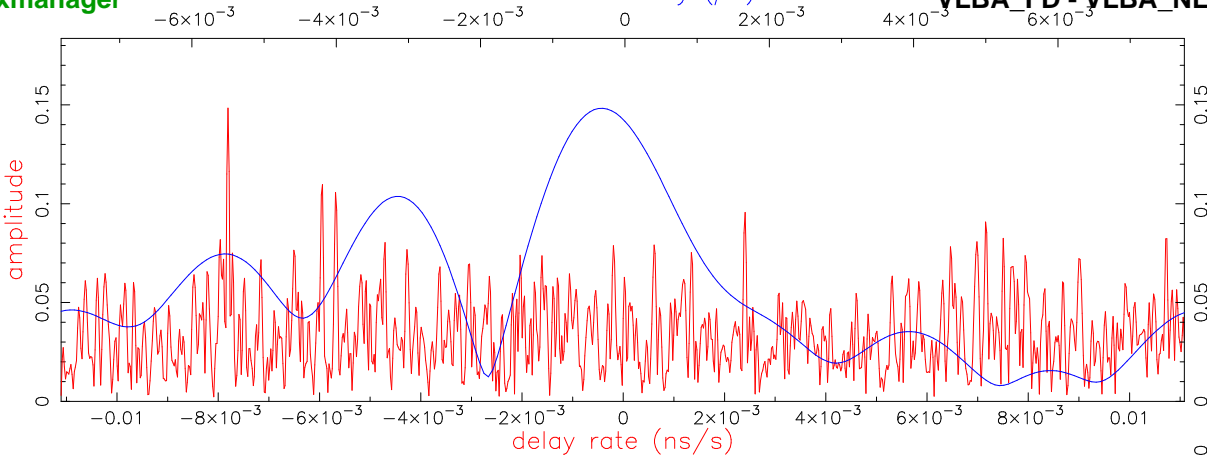
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, fn

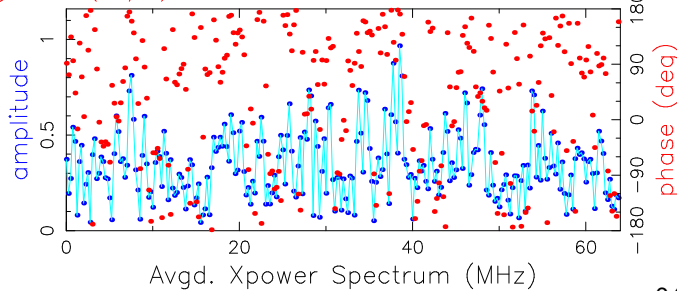
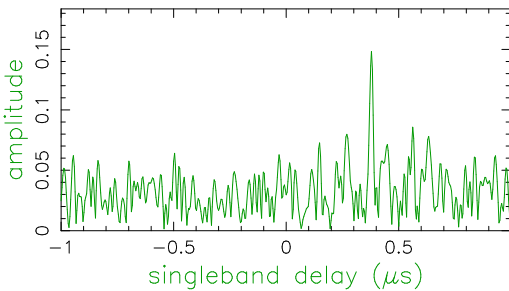
VLBA_FD - VLBA_NL, fgroup W, pol LR

multiband delay (μ s)



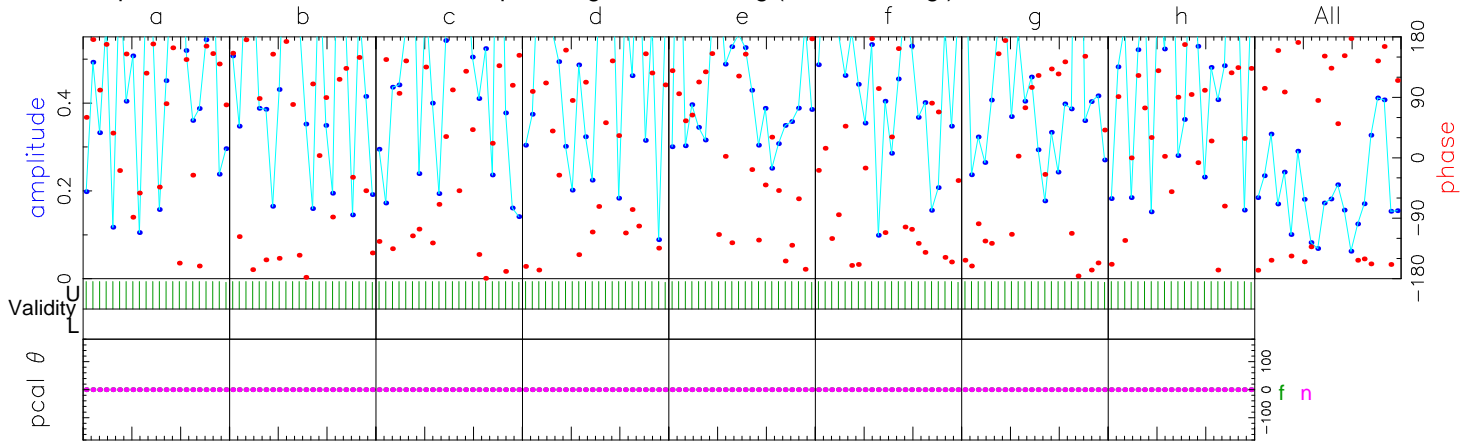
Fringe quality 0

SNR 5.4
 Int time 179.976
 Amp 0.184
 Phase 164.5
 PFD 1.0e+00
 Delays (us)
 SBD 0.378773
 MBD -0.000324
 Fringe rate (Hz)
 -0.688554
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141917
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

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
160.3	161.8	153.6	164.3	160.0	-111.4	-179.9	99.9	99.9	Phase	164.5
0.3	0.3	0.2	0.1	0.1	0.2	0.3	0.2	0.2	Ampl.	0.2
417.4	334.3	470.0	248.8	239.5	327.4	353.1	341.5	341.5	Sbd box	354.0
U/L 352/0	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	1000	PC freqs	
n 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:n 0:0	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	1000	PC amp	
n 1000	1000	1000	1000	1000	1000	1000	1000	1000		
f W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
n W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	
									Tracks	
Group delay (usec)(sbd)	2.69031951598E+03		Apriori delay (usec)	2.68994483987E+03		Resid mbdelay (usec)	-3.23897E-04		+/-	2.0E-04
Sband delay (usec)	2.69032361287E+03		Apriori clock (usec)	7.6974316E+00		Resid sbdelay (usec)	3.78773E-01		+/-	1.6E-03
Phase delay (usec)	2.68994484507E+03		Apriori clockrate (us/s)	-1.0000003E-07		Resid phdelay (usec)	5.19738E-06		+/-	6.7E-07
Delay rate (us/s)	2.59294656631E-01		Apriori rate (us/s)	2.59302486445E-01		Resid rate (us/s)	-7.82981E-06		+/-	6.4E-09
Total phase (deg)		243.1	Apriori accel (us/s/s)	-1.38643352526E-05		Resid phase (deg)	164.5		+/-	21.1

	RMS	Theor.	Amplitude	0.184 +/- 0.034	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	47.3	49.4	Search (1024X32)	0.147	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	74.4	86.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	44.0	29.8	Inc. seg. avg.	0.182	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	42.6	52.0	Inc. frq. avg.	0.197	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

f: az 173.2 el 57.9 pa -5.4 n: az 192.7 el 46.2 pa 9.5 u,v (fr/asec) -1521.038 -1392.352 simultaneous interpolator

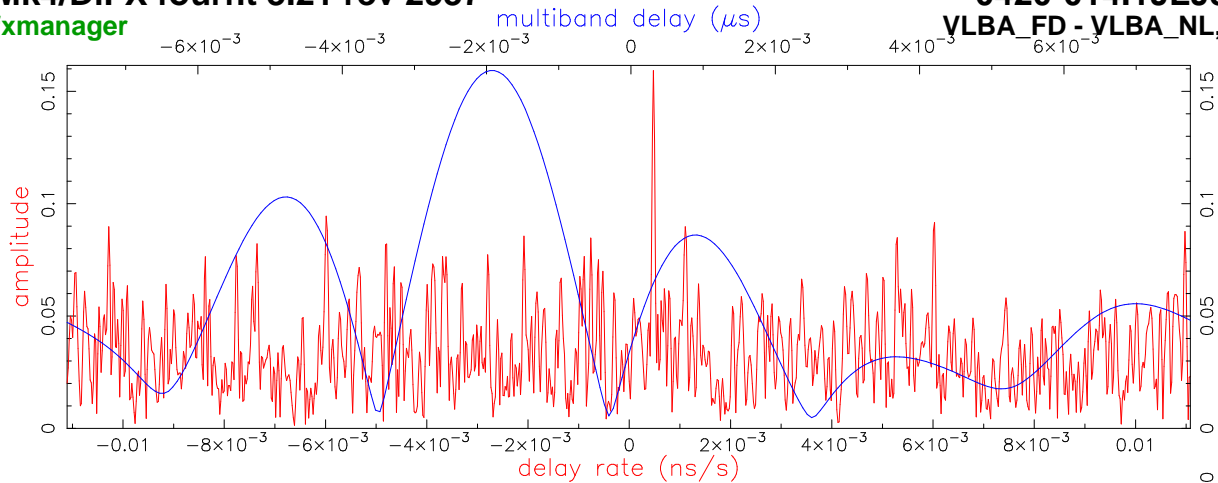
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/fn..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/fn.W.65.1JLJ5P

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

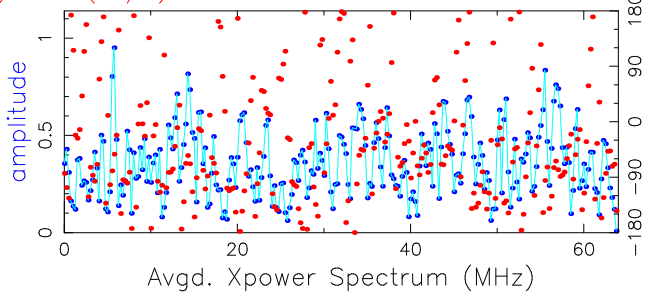
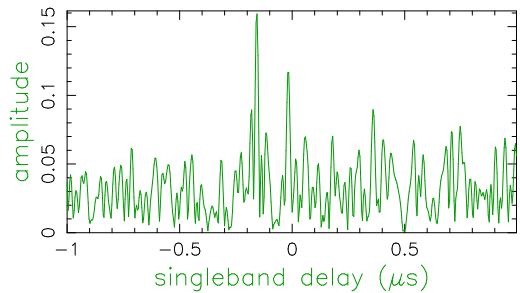
0420-014.1JLJ5P, No0075, fn

VLBA_FD - VLBA_NL, fgroup W, pol RL



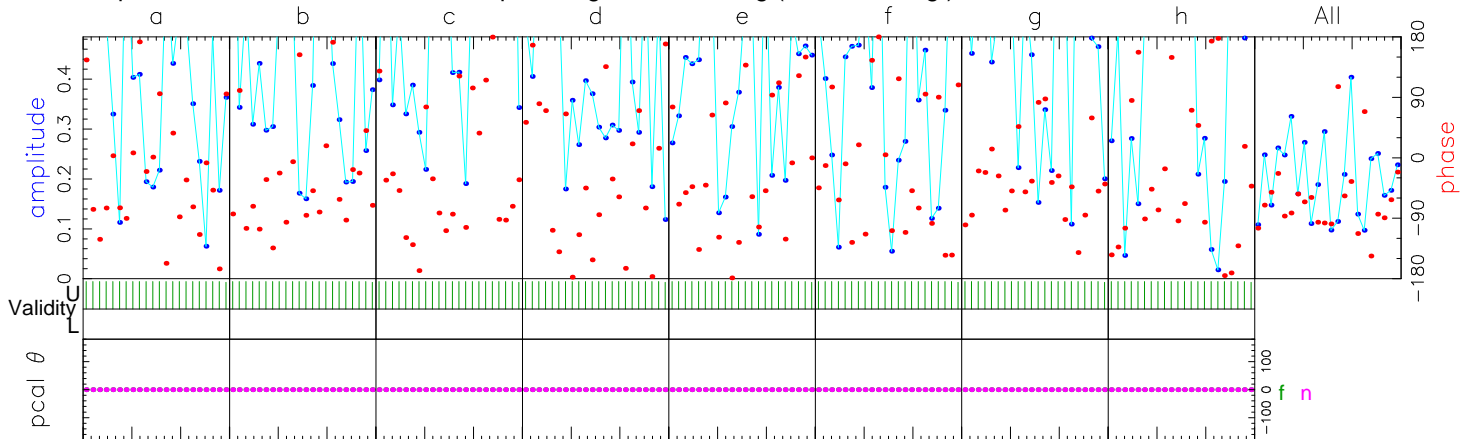
Fringe quality 0

SNR 5.9
 Int time 179.976
 Amp 0.162
 Phase -70.5
 PFD 3.3e-01
 Delays (us)
 SBD -0.157573
 MBD -0.001957
 Fringe rate (Hz)
 0.042053
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141919
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 -1°20'33.065613"

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
	-81.1	-60.9	-77.8	-125.1	-41.0	-109.5	-50.2	-84.6	Phase	-70.5
	0.2	0.3	0.2	0.0	0.1	0.1	0.3	0.2	Ampl.	0.2
	509.5	217.0	451.0	102.5	153.3	132.6	216.5	505.7	Sbd box	216.7
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	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.68978663313E+03		Apriori delay (usec)		2.68994483987E+03		Resid mbdelay (usec)		-1.95674E-03	+/- 1.8E-04
Sband delay (usec)	2.68978726662E+03		Apriori clock (usec)		7.6974316E+00		Resid sbdelay (usec)		-1.57573E-01	+/- 1.5E-03
Phase delay (usec)	2.68994483764E+03		Apriori clockrate (us/s)		-1.0000003E-07		Resid phdelay (usec)		-2.22828E-06	+/- 6.1E-07
Delay rate (us/s)	2.59302964651E-01		Apriori rate (us/s)		2.59302486445E-01		Resid rate (us/s)		4.78206E-07	+/- 5.9E-09
Total phase (deg)	8.1		Apriori accel (us/s/s)		-1.38643352526E-05		Resid phase (deg)		-70.5	+/- 19.3

	RMS	Theor.	Amplitude	0.162 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
ph/seg (deg)	56.1	45.4	Search (1024X32)	0.159	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
amp/seg (%)	56.1	79.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	32.3	27.4	Inc. seg. avg.	0.156	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011	
amp/frq (%)	58.4	47.8	Inc. frq. avg.	0.152	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC) 0.00 0.00

f: az 173.2 el 57.9 pa -5.4 n: az 192.7 el 46.2 pa 9.5 u,v (fr/asec) -1521.038 -1392.352 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/fn..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/fn.W.80.1JLJ5P

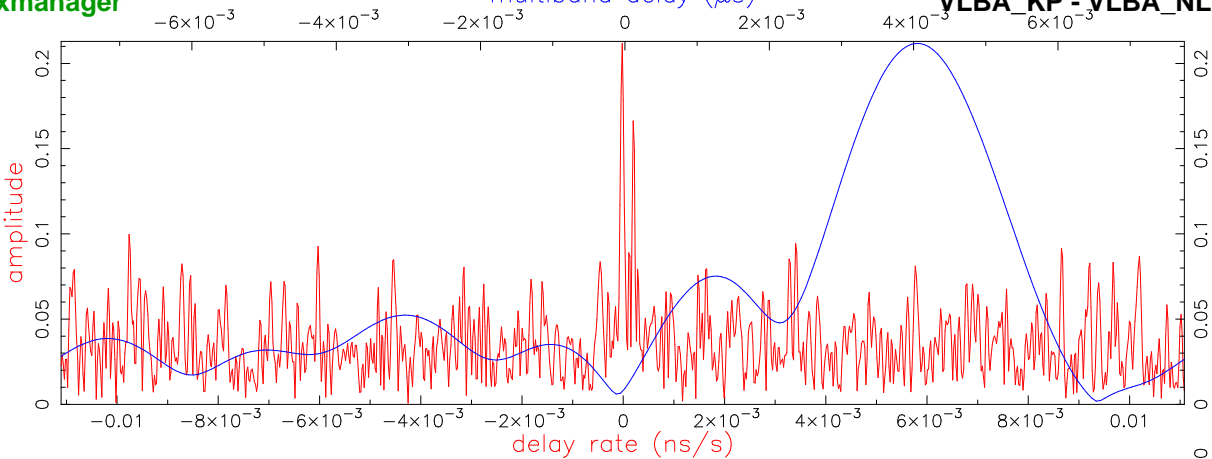
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, kn

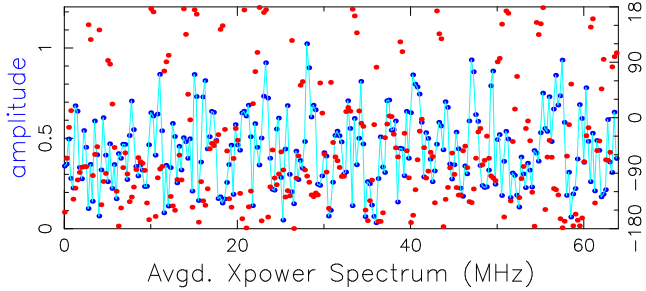
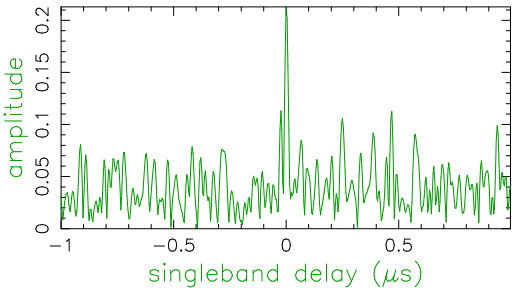
VLBA_KP - VLBA_NL, fgroup W, pol LL

multiband delay (μ s)



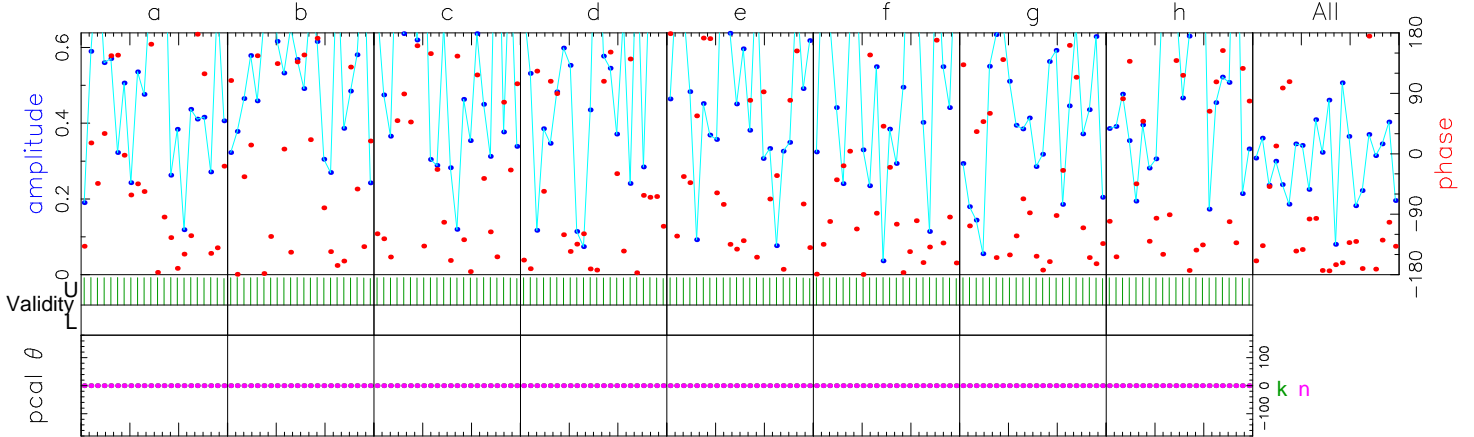
Fringe quality 9

SNR 7.8
 Int time 178.597
 Amp 0.213
 Phase -146.0
 PFD 1.2e-06
 Delays (us)
 SBD 0.000925
 MBD 0.004070
 Fringe rate (Hz)
 -0.002775
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141912
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

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
	-127.7	-171.3	-160.6	-146.4	-129.4	-127.8	-158.5	-159.4	Phase	-146.0
	0.2	0.2	0.1	0.3	0.2	0.3	0.2	0.3	Ampl.	0.2
	373.2	97.8	281.9	342.5	184.0	256.3	307.1	179.5	Sbd box	257.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.12340860667E+03		Apriori delay (usec)		2.12340453657E+03		Resid mbdelay (usec)		4.07011E-03	+/- 1.4E-04
Sband delay (usec)	2.12340546182E+03		Apriori clock (usec)		1.0672379E-01		Resid sbdelay (usec)		9.25250E-04	+/- 1.1E-03
Phase delay (usec)	2.12340453196E+03		Apriori clockrate (us/s)		-4.0000002E-07		Resid phdelay (usec)		-4.61167E-06	+/- 4.7E-07
Delay rate (us/s)	4.33123637738E-01		Apriori rate (us/s)		4.33123669288E-01		Resid rate (us/s)		-3.15503E-08	+/- 4.5E-09
Total phase (deg)	194.5		Apriori accel (us/s/s)		-1.09422872505E-05		Resid phase (deg)		-146.0	+/- 14.7

	RMS	Theor.	Amplitude	0.213 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	57.3	34.5	Search (1024X32)	0.202	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	63.7	60.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	18.8	20.8	Inc. seg. avg.	0.259	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	29.4	36.3	Inc. frq. avg.	0.207	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

k: az 160.0 el 55.1 pa -16.3 n: az 192.7 el 46.2 pa 9.5 u,v (fr/asec) -2536.271 -1221.388 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/kn..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/kn.W.15.1JLJ5P

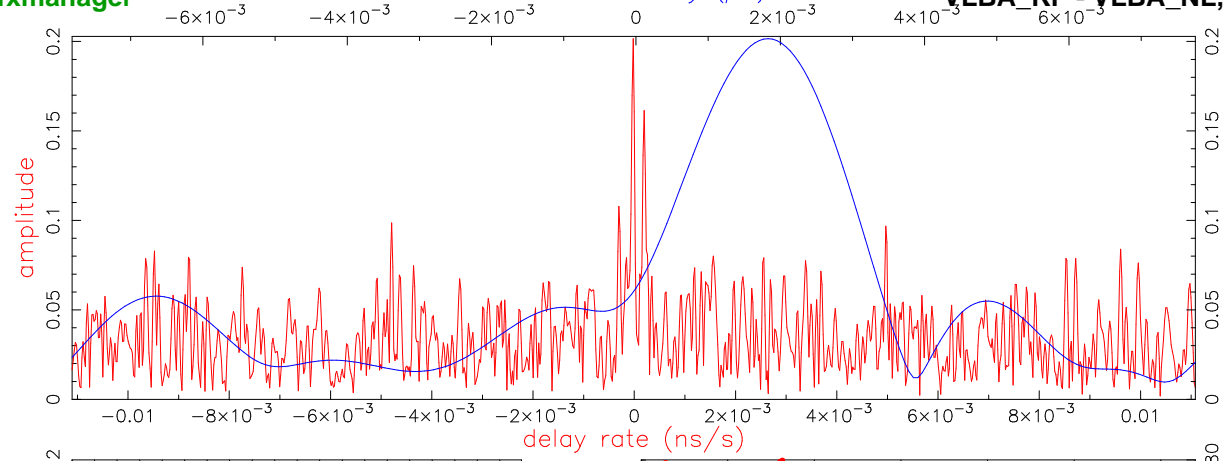
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

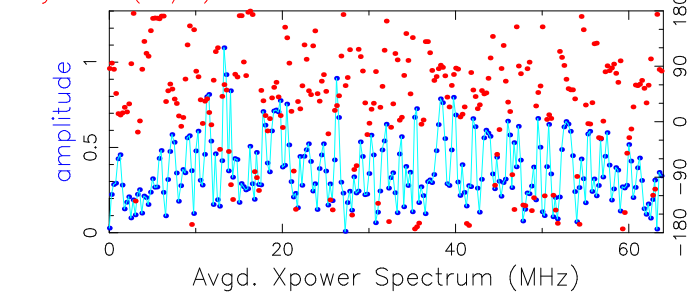
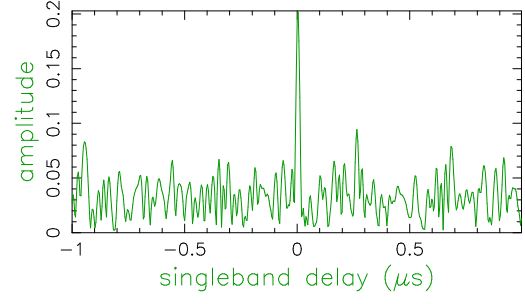
0420-014.1JLJ5P, No0075, kn

VLBA_KP - VLBA_NL, fgroup W, pol RR

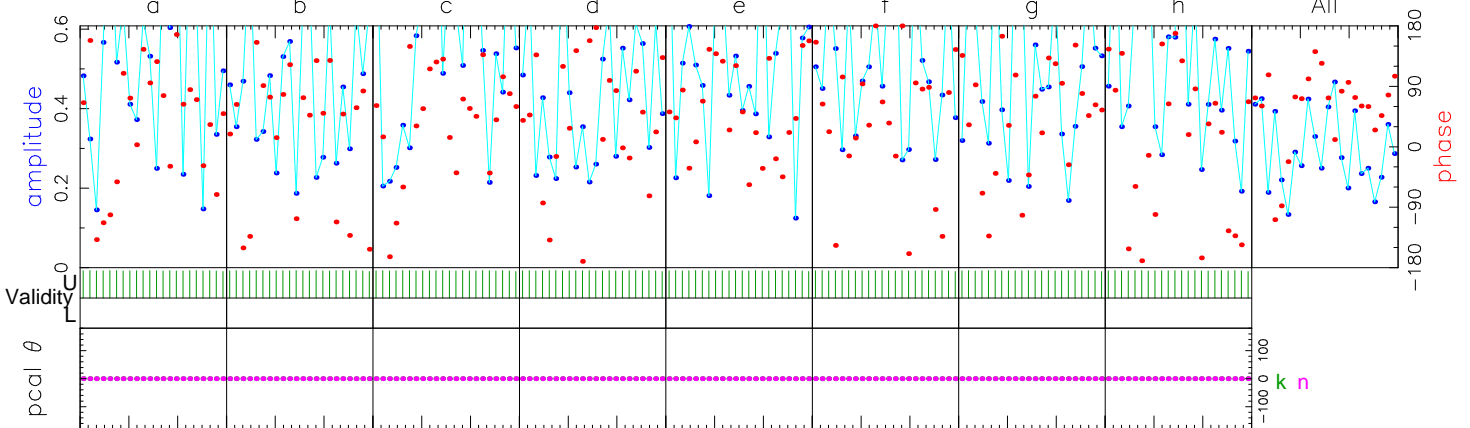
multiband delay (μ s)



Fringe quality 9
 SNR 7.4
 Int time 178.597
 Amp 0.203
 Phase 73.9
 PFD 2.0e-05
 Delays (us)
 SBD 0.002849
 MBD 0.001806
 Fringe rate (Hz) -0.002572
 Ion TEC 0.000
 Ref freq (MHz) 87940.0000
 AP (sec) 0.512
 Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141914
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"



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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
k:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:n	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		2.12340634284E+03			2.12340453657E+03				1.80627E-03	+/- 1.5E-04
Sband delay (usec)		2.12340738557E+03			1.0672379E-01				2.84900E-03	+/- 1.2E-03
Phase delay (usec)		2.12340453890E+03			-4.0000002E-07				2.33586E-06	+/- 4.9E-07
Delay rate (us/s)		4.33123640038E-01			4.33123669288E-01				-2.92502E-08	+/- 4.7E-09
Total phase (deg)			54.4		-1.09422872505E-05				73.9	+/- 15.5
	RMS	Theor.	Amplitude	0.203 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			sb window (us)	-1.000 1.000
ph/seg (deg)	62.3	36.3	Search (1024X32)	0.195	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				mb window (us)	-0.008 0.008
amp/seg (%)	66.7	63.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled			dr window (ns/s)	-0.011 0.011
ph/frq (deg)	20.9	21.9	Inc. seg. avg.	0.250	Sample rate(MISamp/s): 128				ion window (TEC)	0.00 0.00
amp/frq (%)	33.7	38.2	Inc. frq. avg.	0.196	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite			

k: az 160.0 el 55.1 pa -16.3 n: az 192.7 el 46.2 pa 9.5 u,v (fr/asec) -2536.271 -1221.388 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/kn.1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/kn.W.31.1JLJ5P

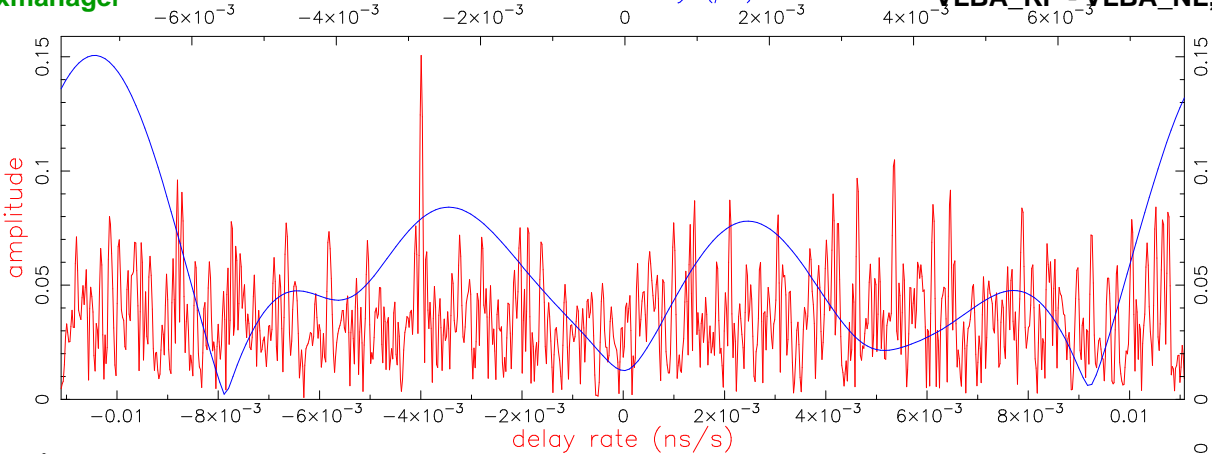
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, kn

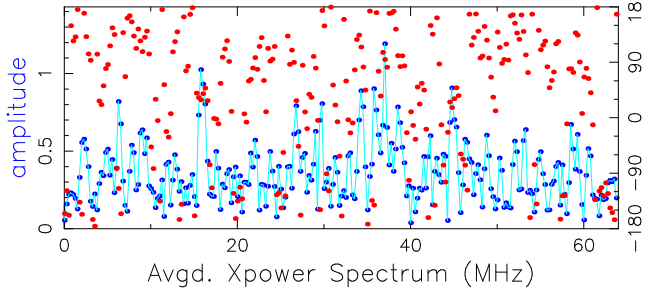
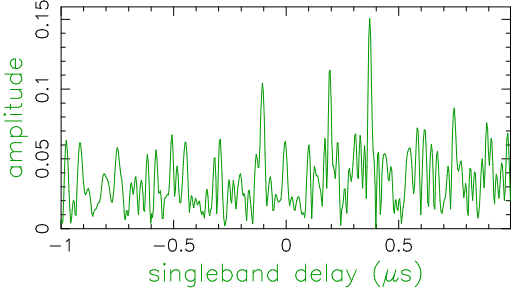
VLBA_KP - VLBA_NL, fgroup W, pol LR

multiband delay (μ s)



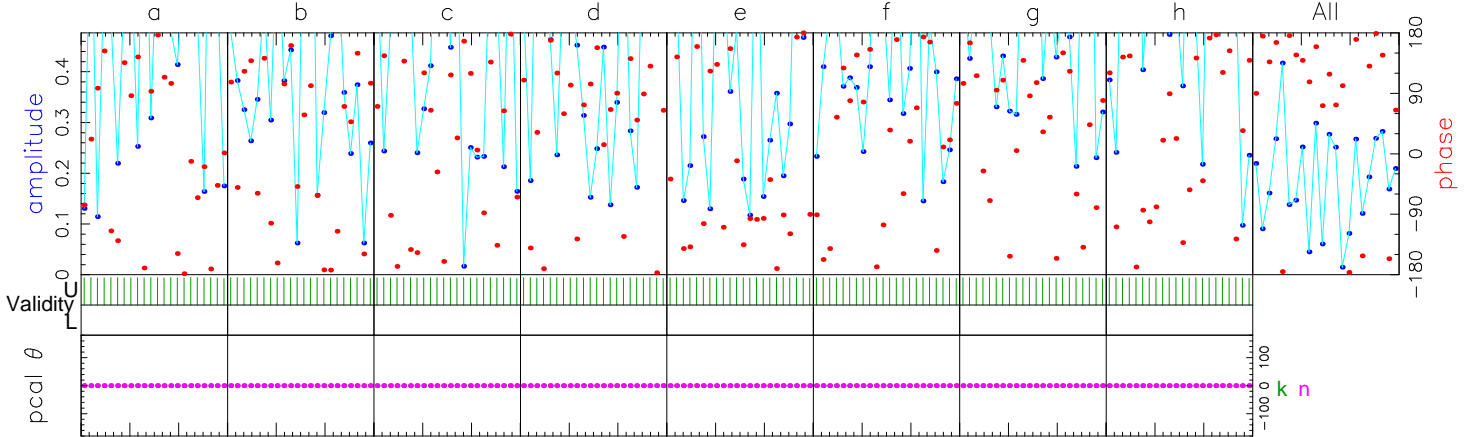
Fringe quality 0

SNR 5.5
 Int time 178.597
 Amp 0.159
 Phase 148.4
 PFD 9.9e-01
 Delays (us)
 SBD 0.371027
 MBD -0.007350
 Fringe rate (Hz)
 -0.351218
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141917
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
k:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:n	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	160.7	137.2	162.2	110.5	-146.9	140.8	102.6	173.8		
Sband delay (usec)	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2		
Phase delay (usec)	287.6	336.1	126.1	180.3	333.3	49.8	364.5	405.2		
Delay rate (us/s)										
Total phase (deg)			128.8							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
Amplitude	0.159 +/- 0.029									
Search (1024X32)	0.147									
Interp.	0.000									
Inc. seg. avg.	0.149									
Inc. frq. avg.	0.171									
PCal mode: MANUAL, MANUAL										
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								

k: az 160.0 el 55.1 pa -16.3 n: az 192.7 el 46.2 pa 9.5 u,v (fr/asec) -2536.271 -1221.388 simultaneous interpolator

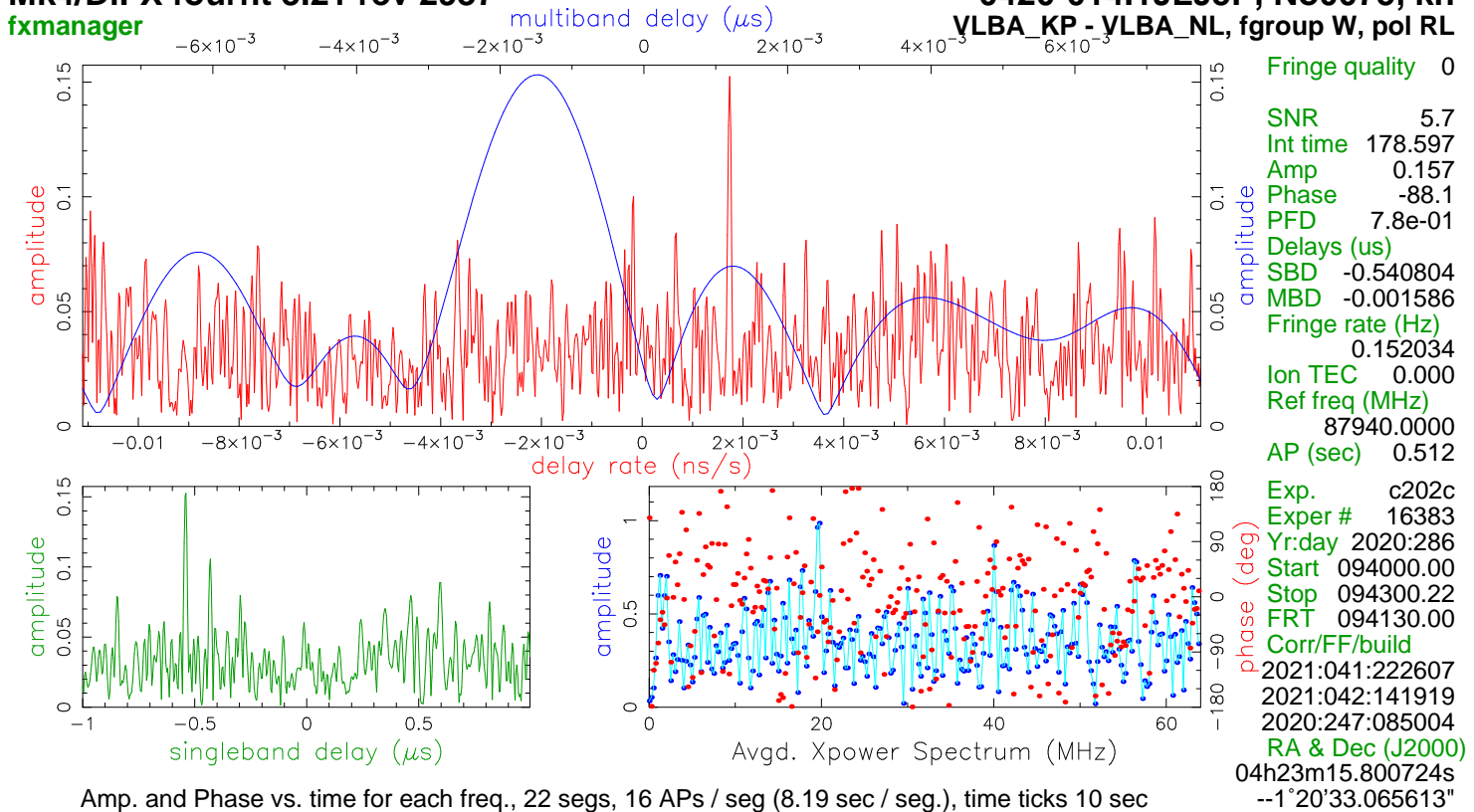
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/kn.1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/kn.W.59.1JLJ5P

Mk4/DiFX fourfit 3.21 rev 2937

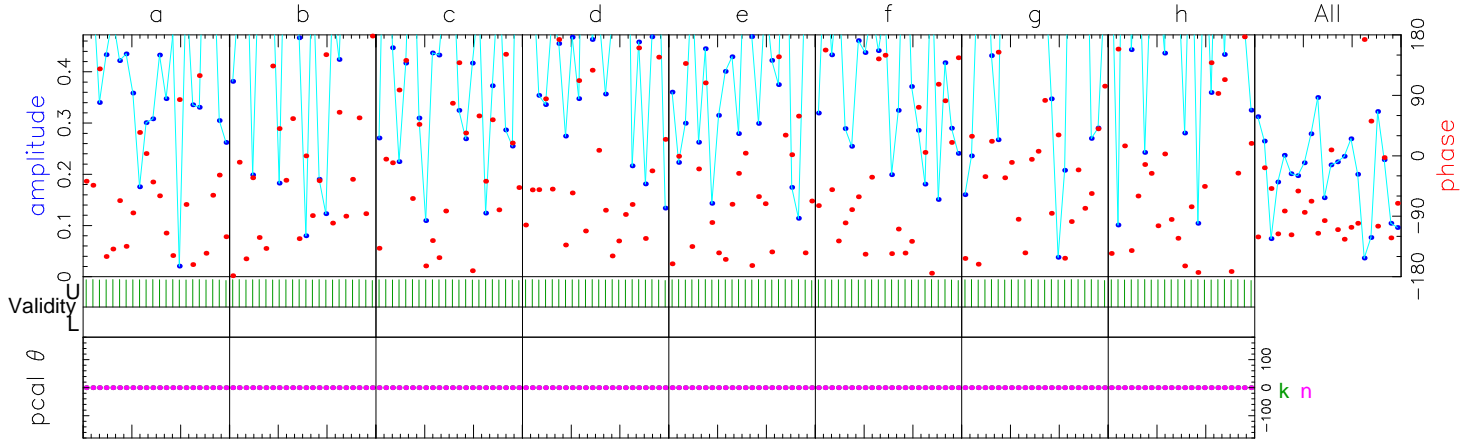
fxmanager

0420-014.1JLJ5P, No0075, kn

VLBA_KP - VLBA_NL, 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
-95.1	-94.2	-28.6	-104.2	-93.8	-142.4	-53.2	-79.2	Phase	-88.1
0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.2	Ampl.	0.2
70.8	466.0	273.2	31.0	188.3	350.2	349.8	179.8	Sbd box	118.6
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
k 1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n 1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:n 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	
n 1000	1000	1000	1000	1000	1000	1000	1000		
k W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	2.12285607532E+03		Apriori delay (usec)	2.12340453657E+03		Resid mbdelay (usec)	-1.58625E-03	+/-	1.9E-04
Sband delay (usec)	2.12286373232E+03		Apriori clock (usec)	1.0672379E-01		Resid sbdelay (usec)	-5.40804E-01	+/-	1.5E-03
Phase delay (usec)	2.12340453379E+03		Apriori clockrate (us/s)	-4.0000002E-07		Resid phdelay (usec)	-2.78148E-06	+/-	6.4E-07
Delay rate (us/s)	4.33125398122E-01		Apriori rate (us/s)	4.33123669288E-01		Resid rate (us/s)	1.72883E-06	+/-	6.1E-09
Total phase (deg)		252.4	Apriori accel (us/s/s)	-1.09422872505E-05		Resid phase (deg)	-88.1	+/-	20.1

ph/seg (deg)	RMS 53.1	Theor. 47.2	Amplitude Search (1024X32)	0.157 +/- 0.028	0.149	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	61.3	82.3	Interp.	0.000	0.154	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	36.9	28.4	Inc. seg. avg.	0.154	0.154	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	35.4	49.7	Inc. frq. avg.	0.155	0.155	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

k: az 160.0 el 55.1 pa -16.3 n: az 192.7 el 46.2 pa 9.5 u,v (fr/asec) -2536.271 -1221.388 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/kn.1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/kn.W.79.1JLJ5P

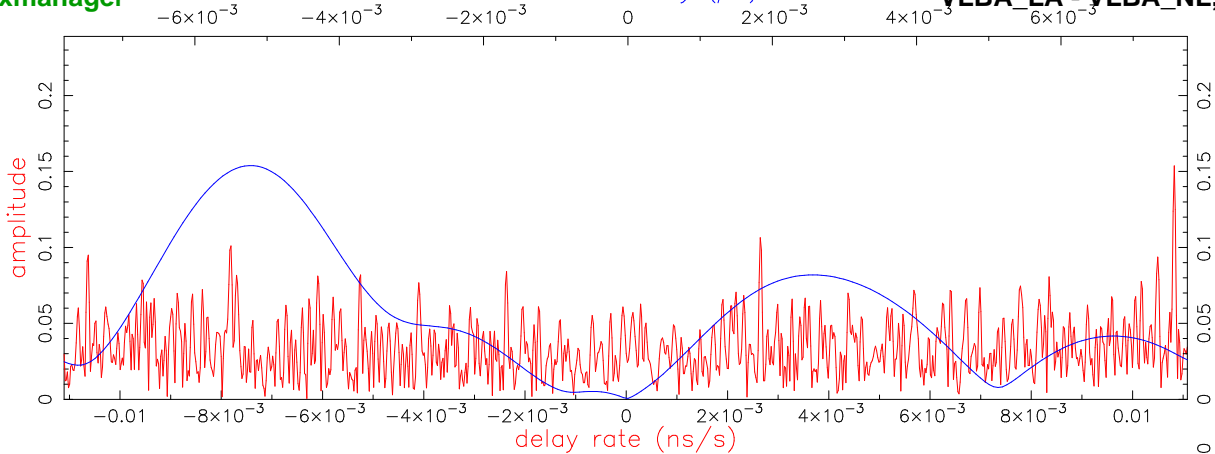
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, In

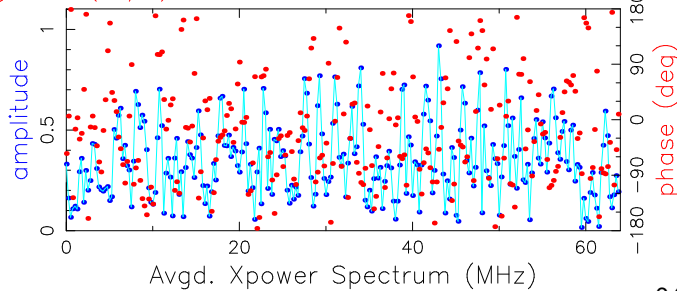
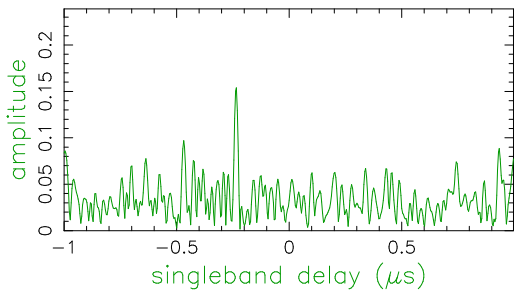
VLBA_LA - VLBA_NL, fgroup W, pol LR

multiband delay (μ s)



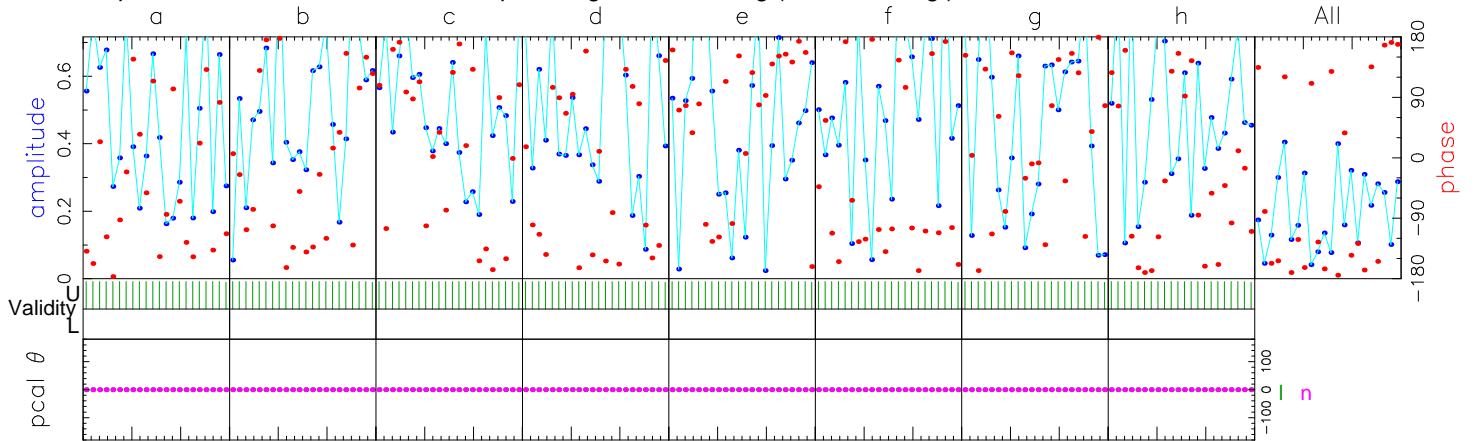
Fringe quality 0

SNR 5.7
 Int time 179.977
 Amp 0.239
 Phase -177.9
 PFD 7.4e-01
 Delays (us)
 SBD -0.235865
 MBD -0.005287
 Fringe rate (Hz)
 0.952269
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141925
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

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)		1.55405296316E+03				1.55429262555E+03			Resid mbdelay (usec)	-5.28740E-03	+/- 1.9E-04
Sband delay (usec)		1.55405676055E+03				-6.6041374E-01			Resid sbdelay (usec)	-2.35865E-01	+/- 1.5E-03
Phase delay (usec)		1.55429261993E+03				-6.0000003E-07			Resid phdelay (usec)	-5.61875E-06	+/- 6.3E-07
Delay rate (us/s)		3.05500078776E-01				3.05489250156E-01			Resid rate (us/s)	1.08286E-05	+/- 6.1E-09
Total phase (deg)			-1.1			-8.06102029455E-06			Resid phase (deg)	-177.9	+/- 20.0
ph/seg (deg)	51.9	47.0							PCal mode: MANUAL, MANUAL		
amp/seg (%)	76.2	82.0							PCal rate: 0.000E+00, 0.000E+00 (us/s)		
ph/frq (deg)	41.4	28.3							Bits/sample: 2x2		
amp/frq (%)	44.5	49.5							SampCntNorm: enabled		
									Sample rate(MISamp/s): 128		
									Data rate(Mb/s): 2048		
									nlags: 256		
									t_cohere infinite		
									ion window (TEC)	0.00	0.00

l: az 170.3 el 52.5 pa -7.3 n: az 192.7 el 46.2 pa 9.5 u,v (fr/asec) -1789.301 -724.987 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/in..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/in.W.121.1JLJ5P

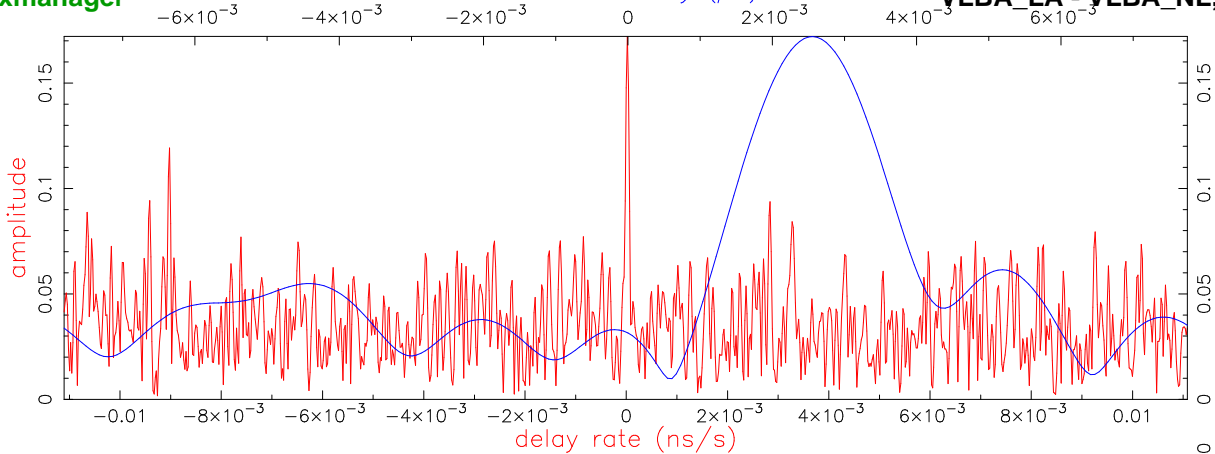
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, In

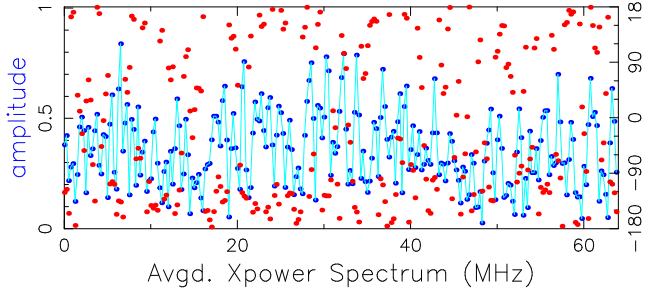
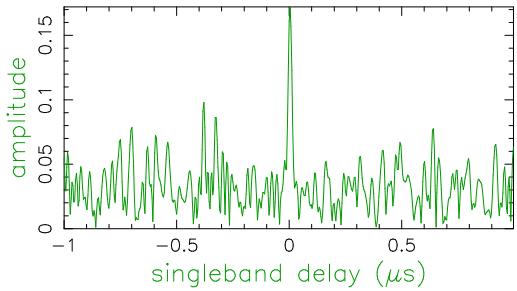
VLBA_LA - VLBA_NL, fgroup W, pol RL

multiband delay (μ s)



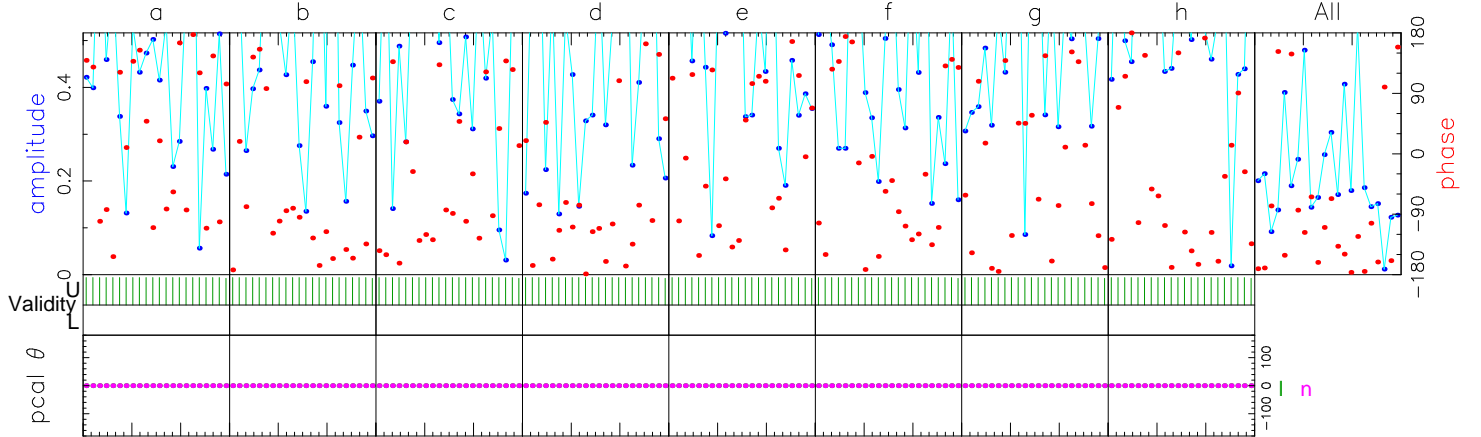
Fringe quality 0

SNR 6.3
 Int time 179.977
 Amp 0.172
 Phase -137.9
 PFD 3.6e-02
 Delays (us)
 SBD 0.003564
 MBD 0.002548
 Fringe rate (Hz) 0.002537
 Ion TEC 0.000
 Ref freq (MHz) 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141927
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 -1°20'33.065613"

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

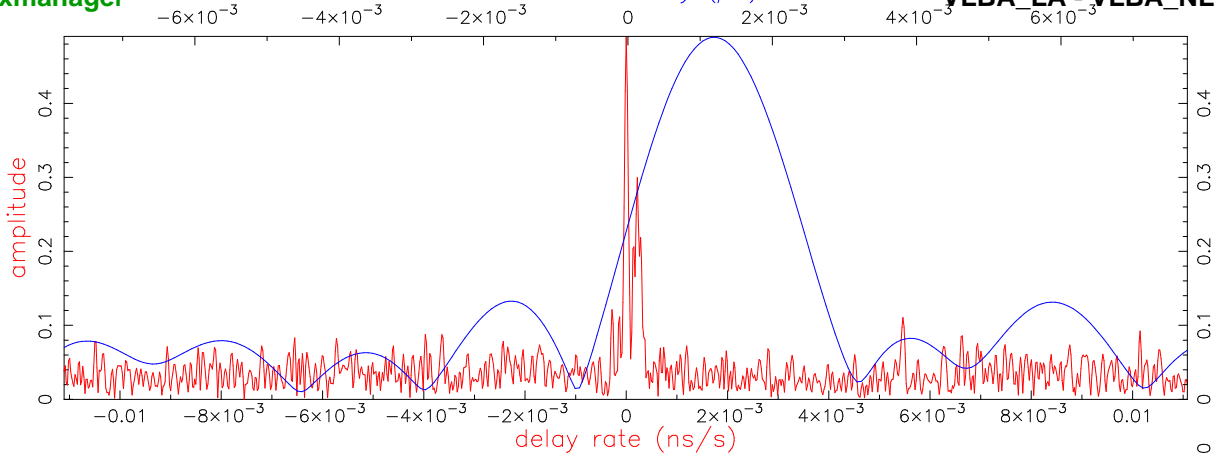


	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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)		1.55429517312E+03			1.55429262555E+03				2.54757E-03	+/- 1.7E-04
Sband delay (usec)		1.55429618930E+03			-6.6041374E-01				3.56375E-03	+/- 1.4E-03
Phase delay (usec)		1.55429262120E+03			-6.0000003E-07				-4.35659E-06	+/- 5.7E-07
Delay rate (us/s)		3.05489279010E-01			3.05489250156E-01				2.88546E-08	+/- 5.5E-09
Total phase (deg)			38.9		-8.06102029455E-06				-137.9	+/- 18.1
pcal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5							
pcal rate:	0.000E+00, 0.000E+00 (us/s)		sb window (us) -1.000 1.000							
Bits/sample:	2x2		SampCntNorm: enabled							
Sample rate (MSamp/s):	128		dr window (ns/s) -0.011 0.011							
Data rate (Mb/s):	2048		nlags: 256 t_cohere infinite							
Resid mbdelay (usec)			ion window (TEC) 0.00 0.00							
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

ph/seg (deg) 50.4 42.6 Search (1024X32) 0.168 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 78.3 74.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 20.4 25.7 Inc. seg. avg. 0.173 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.8 44.8 Inc. frq. avg. 0.162 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 170.3 el 52.5 pa -7.3 n: az 192.7 el 46.2 pa 9.5 u,v (fr/asec) -1789.301 -724.987 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/in..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/in.W.138.1JLJ5P

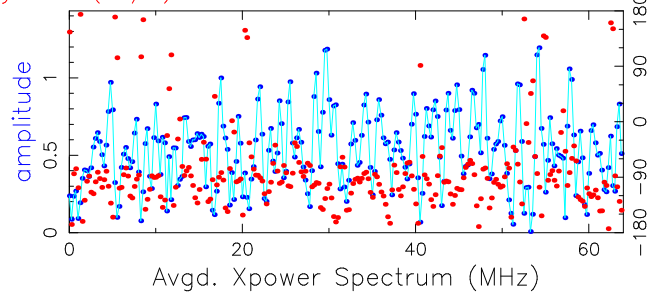
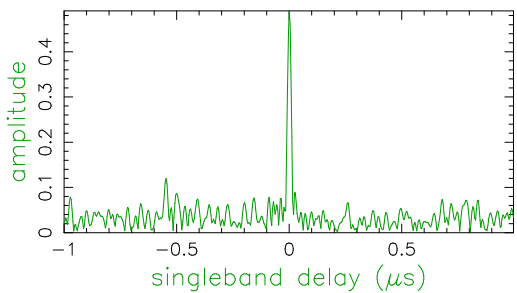
multiband delay (μ s)



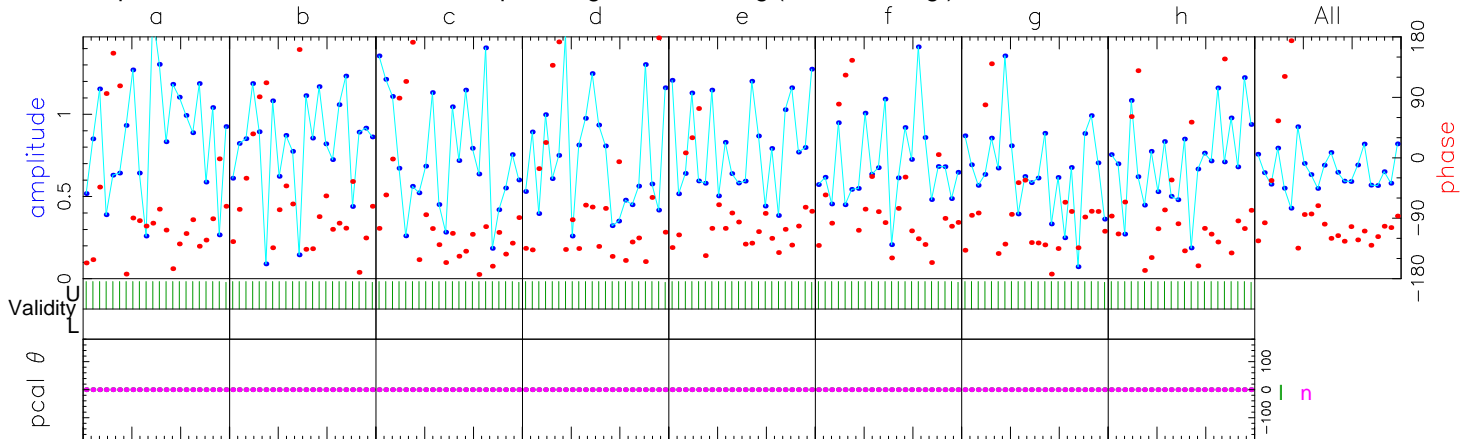
Fringe quality 9

SNR 18.0
Int time 179.977
Amp 0.490
Phase -108.0
PFD 0.0e+00
Delays (us)
SBD 0.000646
MBD 0.001206
Fringe rate (Hz) -0.000489
Ion TEC 0.000
Ref freq (MHz) 87940.0000
AP (sec) 0.512

Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2021:041:222607
2021:042:141921
2020:247:085004
RA & Dec (J2000)
04h23m15.800724s
--1°20'33.065613"



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
	-112.7	-93.2	-115.3	-118.4	-102.9	-93.9	-108.5	-117.6	Phase	-108.0
	0.6	0.5	0.5	0.5	0.6	0.4	0.5	0.4	Ampl.	0.5
	256.4	257.5	257.2	257.7	256.7	257.9	257.5	256.6	Sbd box	257.2
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	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.55429383115E+03		Apriori delay (usec)		1.55429262555E+03		Resid mbdelay (usec)		1.20559E-03	+/- 6.0E-05
Sband delay (usec)	1.55429327130E+03		Apriori clock (usec)		-6.6041374E-01		Resid sbdelay (usec)		6.45750E-04	+/- 4.8E-04
Phase delay (usec)	1.55429262214E+03		Apriori clockrate (us/s)		-6.0000003E-07		Resid phdelay (usec)		-3.41112E-06	+/- 2.0E-07
Delay rate (us/s)	3.05489244598E-01		Apriori rate (us/s)		3.05489250156E-01		Resid rate (us/s)		-5.55799E-09	+/- 1.9E-09
Total phase (deg)	68.8		Apriori accel (us/s/s)		-8.06102029455E-06		Resid phase (deg)		-108.0	+/- 6.4

	RMS	Theor.	Amplitude	0.490 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	52.6	14.9	Search (1024X32)	0.474	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	41.8	26.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	10.9	9.0	Inc. seg. avg.	0.640	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	12.8	15.7	Inc. frq. avg.	0.490	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
						ion window (TEC) 0.00 0.00

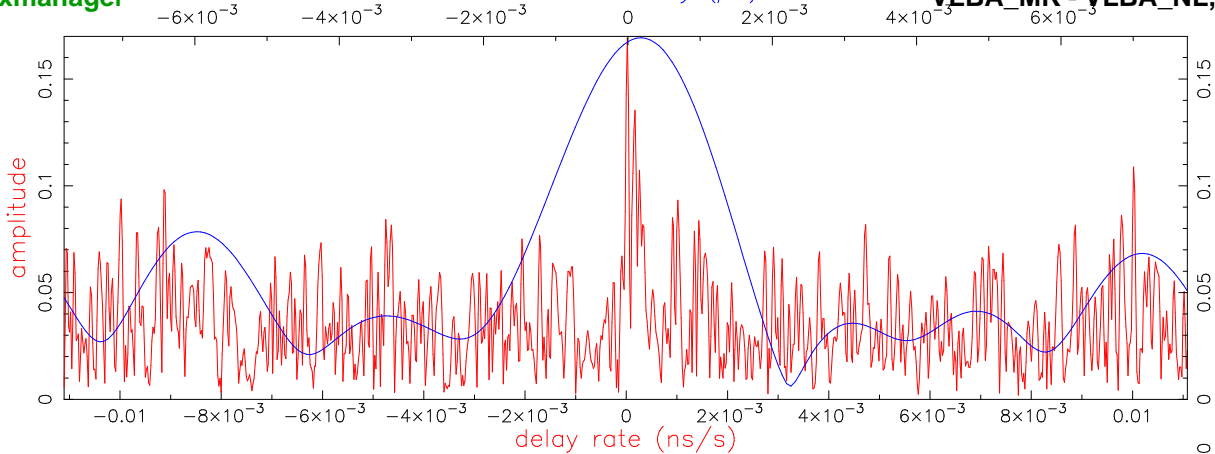
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, mn

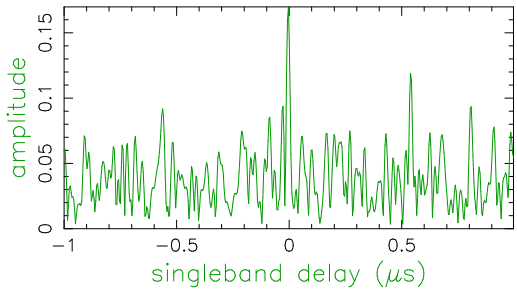
VLBA_MK - VLBA_NL, fgroup W, pol RR

multiband delay (μ s)

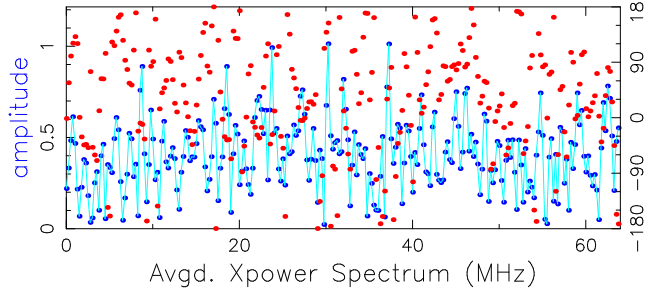


Fringe quality 0

SNR 6.2
Int time 179.978
Amp 0.170
Phase -3.4
PFD 5.9e-02
Delays (us)
SBD -0.004734
MBD 0.000127
Fringe rate (Hz) 0.001349
Ion TEC 0.000
Ref freq (MHz) 87940.0000
AP (sec) 0.512



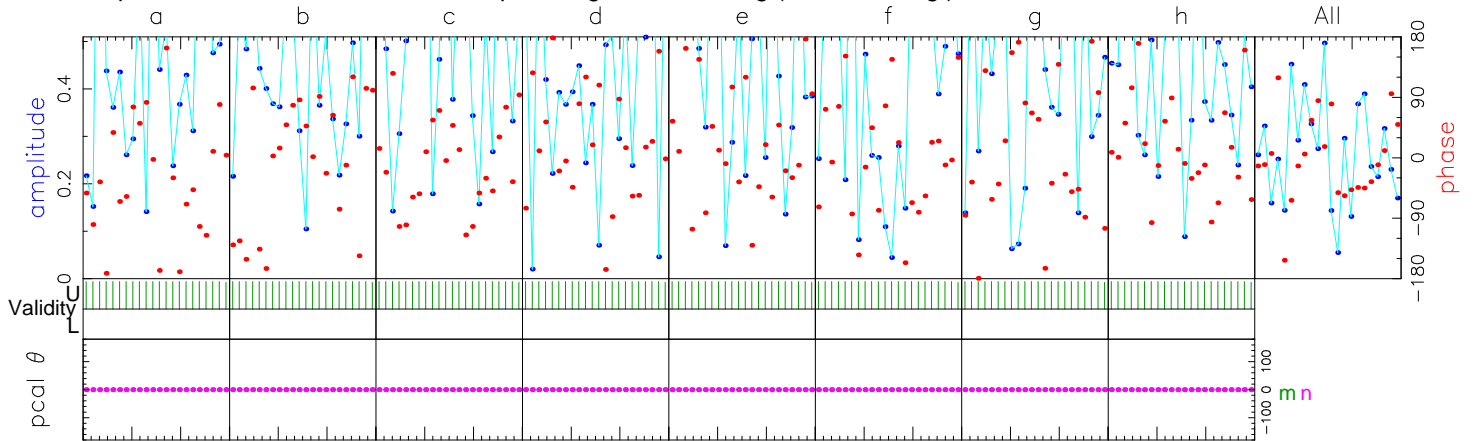
singleband delay (μ s)



Avgd. Xpower Spectrum (MHz)

Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2021:041:222607
2021:042:141924
2020:247:085004
RA & Dec (J2000)
04h23m15.800724s
--1°20'33.065613"

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
	-42.3	81.3	-10.2	-0.1	1.1	-19.1	-17.6	12.6	Phase	-3.4
	0.2	0.1	0.3	0.2	0.2	0.2	0.1	0.2	Ampl.	0.2
	446.6	418.7	256.2	213.6	56.2	238.6	23.2	326.9	Sbd box	255.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-3.95035928186E+03	Apriori delay (usec)	-3.95035940881E+03	Resid mbdelay (usec)	1.26946E-04	+/-	1.7E-04
Sband delay (usec)	-3.95036414231E+03	Apriori clock (usec)	1.3145724E+01	Resid sbdelay (usec)	-4.73350E-03	+/-	1.4E-03
Phase delay (usec)	-3.95035940892E+03	Apriori clockrate (us/s)	-4.0000002E-07	Resid phdelay (usec)	-1.07220E-07	+/-	5.8E-07
Delay rate (us/s)	1.37682232249E+00	Apriori rate (us/s)	1.37682230715E+00	Resid rate (us/s)	1.53414E-08	+/-	5.6E-09
Total phase (deg)	-151.3	Apriori accel (us/s/s)	2.19082340226E-05	Resid phase (deg)	-3.4	+/-	18.4

ph/seg (deg)	61.9	Theor.	43.1	Amplitude	0.170 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	87.3		75.2	Search (1024X32)	0.165	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	39.7		26.0	Inc. seg. avg.	0.211	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	39.3		45.4	Inc. frq. avg.	0.174	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

m: az 104.7 el 32.0 pa -65.5 n: az 192.7 el 46.2 pa 9.5 u,v (fr/asec) -8034.310 -3010.354 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/mn..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/mn.W.111.1JLJ5P

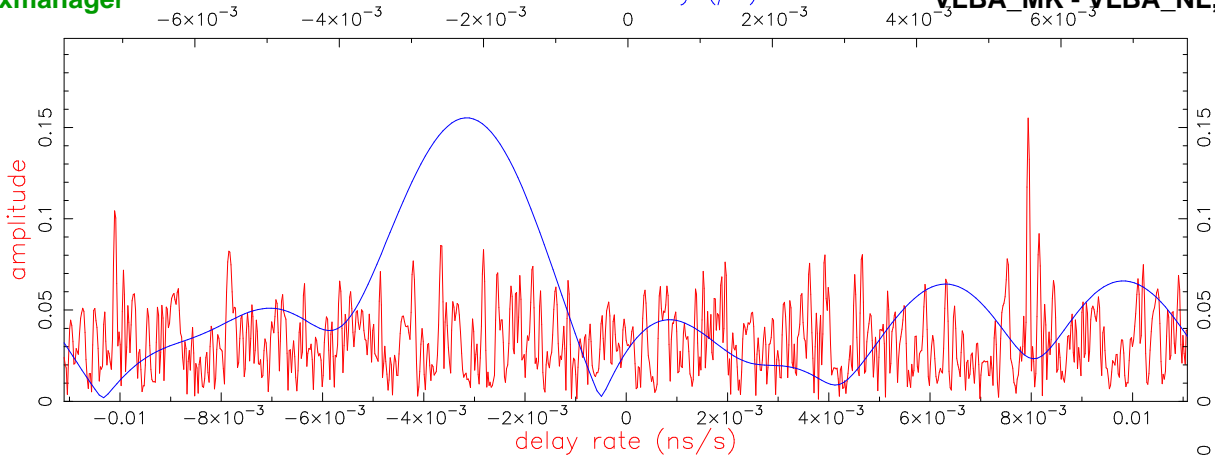
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, mn

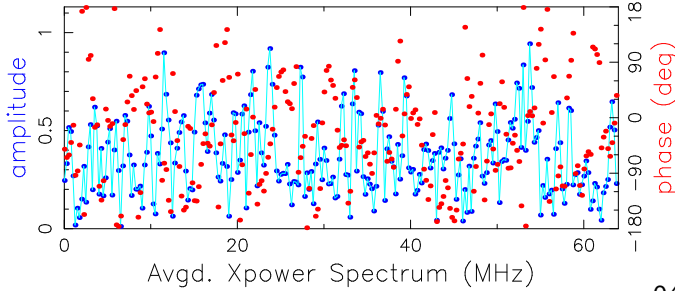
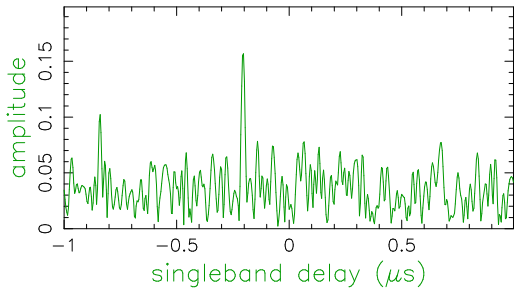
VLBA_MK - VLBA_NL, fgroup W, pol RL

multiband delay (μ s)



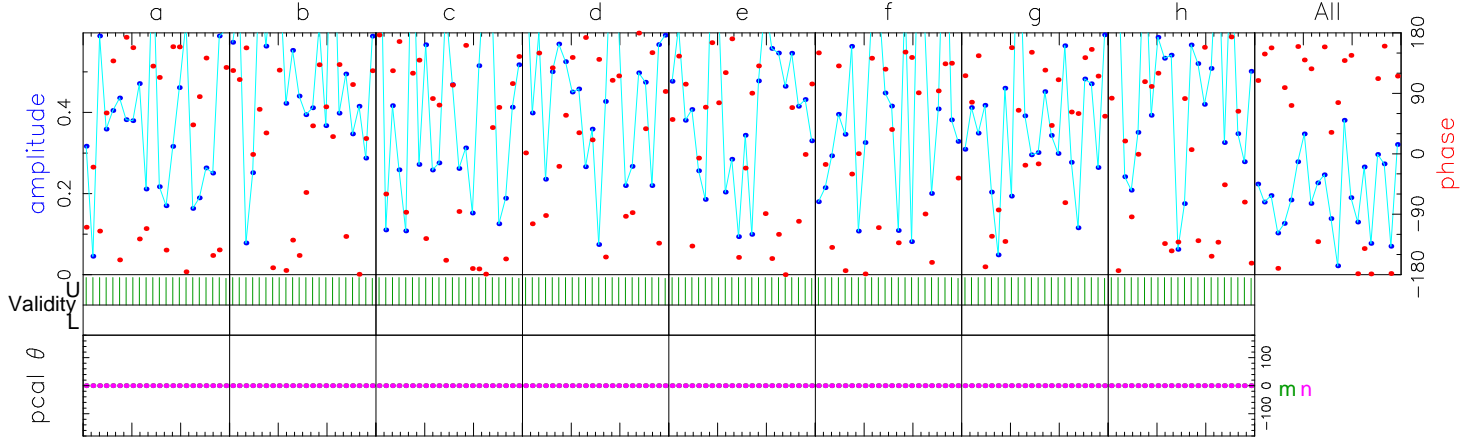
Fringe quality 0

SNR 5.8
 Int time 179.978
 Amp 0.199
 Phase 144.7
 PFD 4.6e-01
 Delays (us)
 SBD -0.204859
 MBD -0.002191
 Fringe rate (Hz)
 0.699359
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141927
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

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
	173.7	115.5	154.4	111.4	147.4	146.2	105.8	175.2	Phase	144.7
	0.3	0.2	0.3	0.1	0.1	0.2	0.2	0.2	Ampl.	0.2
	324.2	507.0	205.5	41.8	418.0	159.8	110.3	315.0	Sbd box	204.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.95056472486E+03		Apriori delay (usec)		-3.95035940881E+03		Resid mbdelay (usec)		-2.19105E-03	+/- 1.9E-04
Sband delay (usec)	-3.95056426781E+03		Apriori clock (usec)		1.3145724E+01		Resid sbdelay (usec)		-2.04859E-01	+/- 1.5E-03
Phase delay (usec)	-3.95035940424E+03		Apriori clockrate (us/s)		-4.0000002E-07		Resid phdelay (usec)		4.57165E-06	+/- 6.2E-07
Delay rate (us/s)	1.37683025983E+00		Apriori rate (us/s)		1.37682230715E+00		Resid rate (us/s)		7.95268E-06	+/- 5.9E-09
Total phase (deg)			Apriori accel (us/s/s)		2.19082340226E-05		Resid phase (deg)		144.7	+/- 19.6

ph/seg (deg) 46.8 45.9 Search (1024X32) 0.154 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 63.6 80.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 29.9 27.7 Inc. seg. avg. 0.191 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 31.5 48.4 Inc. frq. avg. 0.191 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 m: az 104.7 el 32.0 pa -65.5 n: az 192.7 el 46.2 pa 9.5 u,v (fr/asec) -8034.310 -3010.354 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/mn..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/mn.W.140.1JLJ5P

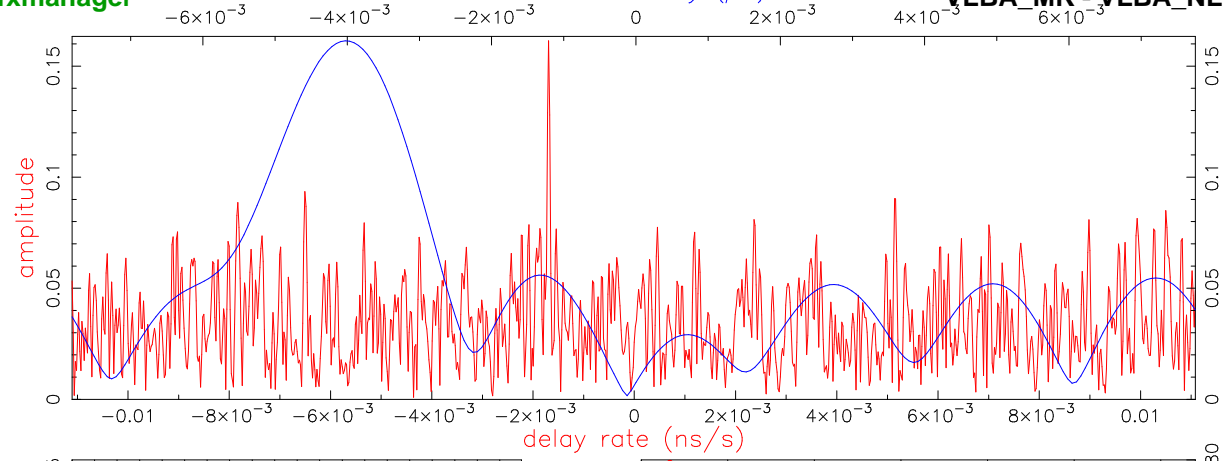
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, mn

VLBA_MK - VLBA_NL, fgroup W, pol LL

multiband delay (μ s)



Fringe quality 0

SNR 5.9

Int time 179.978

Amp 0.163

Phase -88.7

PFD 3.1e-01

Delays (us)

SBD 0.432932

MBD -0.004040

Fringe rate (Hz)

-0.148830

Ion TEC 0.000

Ref freq (MHz)

87940.0000

AP (sec) 0.512

Exp. c202c

Exper # 16383

Yr:day 2020:286

Start 094000.00

Stop 094300.22

FRT 094130.00

Corr/FF/build

2021:041:222607

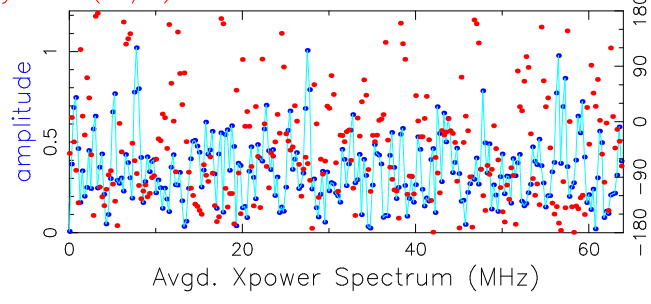
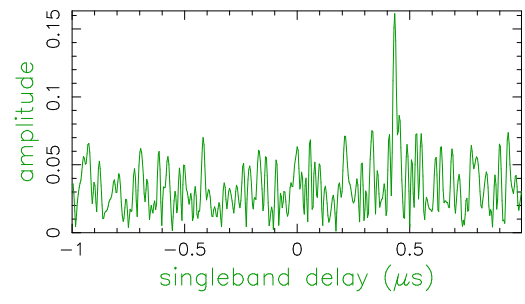
2021:042:141922

2020:247:085004

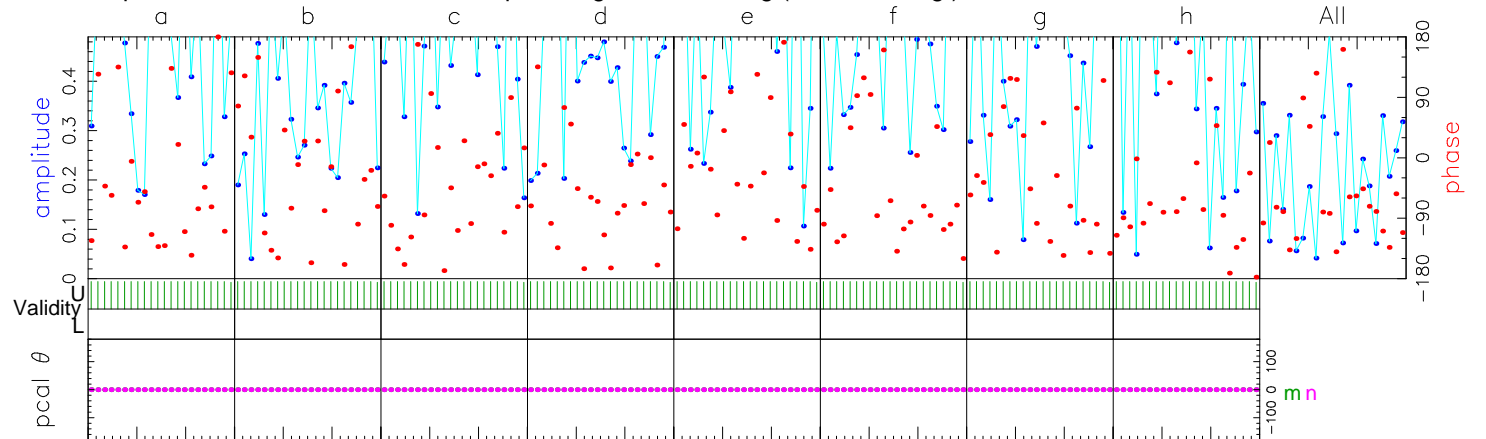
RA & Dec (J2000)

04h23m15.800724s

--1°20'33.065613"



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
	-124.9	-86.9	-59.1	-68.3	-68.6	-97.8	-82.8	-104.2	Phase	-88.7
	0.2	0.1	0.2	0.2	0.1	0.2	0.1	0.2	Ampl.	0.2
	366.4	232.2	8.9	105.5	149.1	54.2	4.1	369.0	Sbd box	367.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.94992594845E+03		Apriori delay (usec)		-3.95035940881E+03		Resid mbdelay (usec)		-4.03964E-03	+/- 1.8E-04
Sband delay (usec)	-3.94992647631E+03		Apriori clock (usec)		1.3145724E+01		Resid sbdelay (usec)		4.32932E-01	+/- 1.5E-03
Phase delay (usec)	-3.95035941161E+03		Apriori clockrate (us/s)		-4.0000002E-07		Resid phdelay (usec)		-2.80159E-06	+/- 6.1E-07
Delay rate (us/s)	1.37682061475E+00		Apriori rate (us/s)		1.37682230715E+00		Resid rate (us/s)		-1.69240E-06	+/- 5.9E-09
Total phase (deg)			Apriori accel (us/s/s)		2.19082340226E-05		Resid phase (deg)		-88.7	+/- 19.3

ph/seg (deg) 70.8 45.3 Search (1024X32) 0.160 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

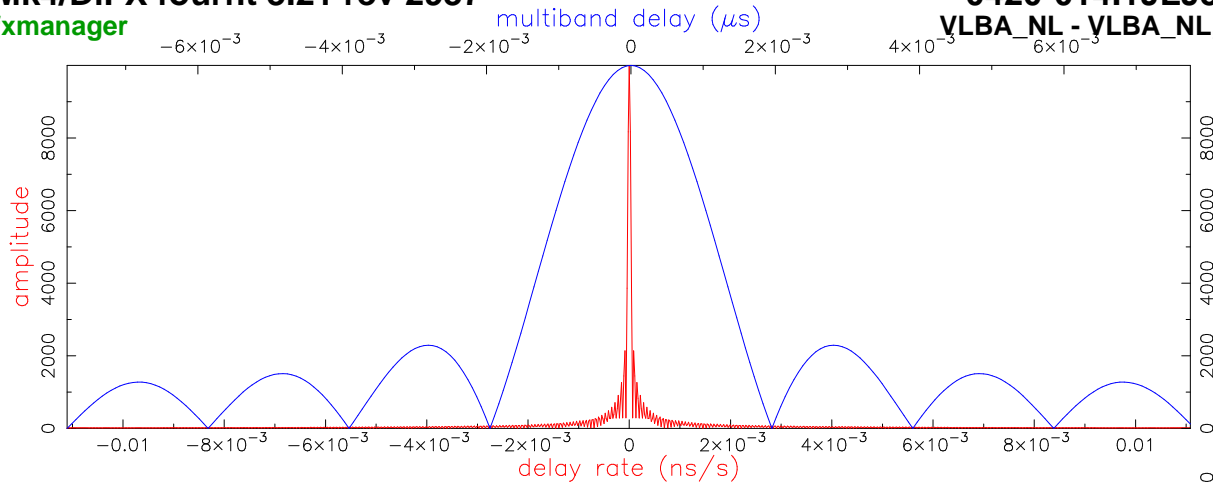
amp/seg (%) 86.0 79.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 23.7 27.3 Inc. seg. avg. 0.170 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

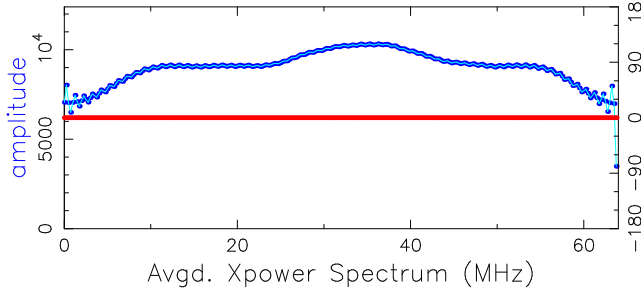
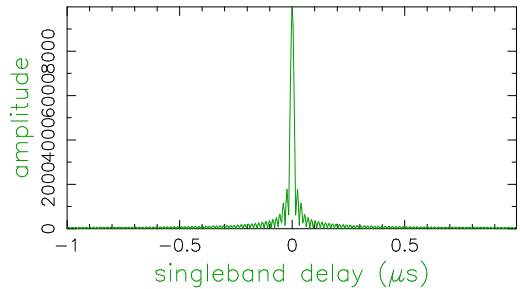
amp/frq (%) 33.2 47.6 Inc. frq. avg. 0.157 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

m: az 104.7 el 32.0 pa -65.5 n: az 192.7 el 46.2 pa 9.5 u,v (fr/asec) -8034.310 -3010.354 ion window (TEC) 0.00 0.00 simultaneous interpolator

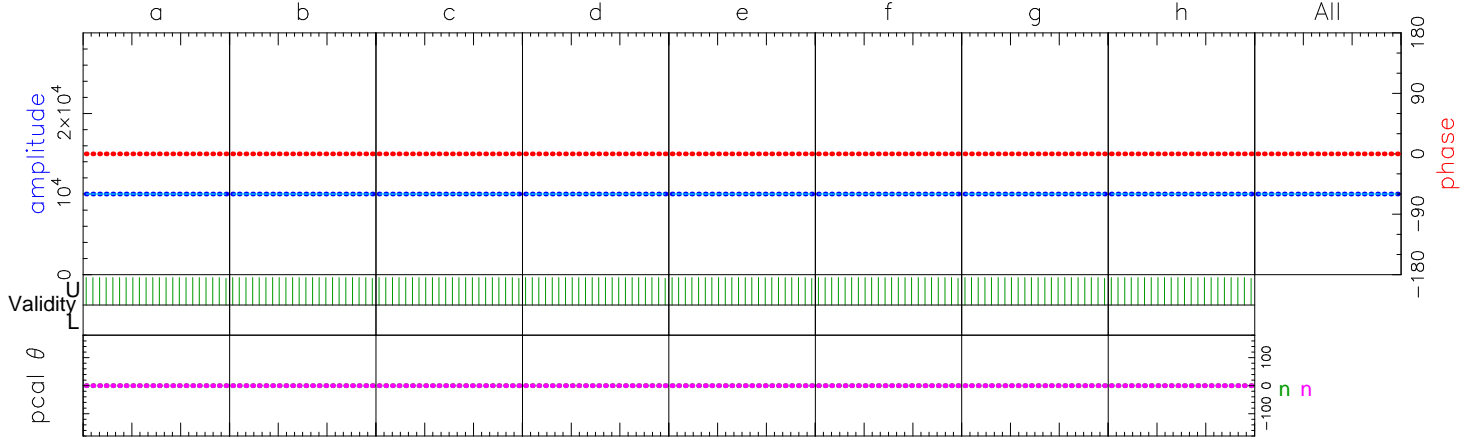
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/mn..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/mn.W.95.1JLJ5P



Fringe quality 9
SNR 366866.1
Int time 179.978
Amp 9999.998
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 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2021:041:222607
2021:042:141924
2020:247:085004
RA & Dec (J2000)
04h23m15.800724s
--1°20'33.065613"



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
n	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
n	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	Resid mbdelay (usec)	0.00000E+00 +/- 3.0E-09
Sband delay (usec)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	Resid sbdelay (usec)	0.00000E+00 +/- 2.3E-08
Phase delay (usec)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	Resid phdelay (usec)	0.00000E+00 +/- 9.9E-12
Delay rate (us/s)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	Resid rate (us/s)	0.00000E+00 +/- 9.5E-14
Total phase (deg)		0.0							Resid phase (deg)	0.0 +/- 0.0

RMS Theor. Amplitude 9999.998 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (1024X32) 9999.998 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. 9999.998 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 n: az 192.7 el 46.2 pa 9.5 n: az 192.7 el 46.2 pa 9.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/nn..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/nn.W.109.1JLJ5P

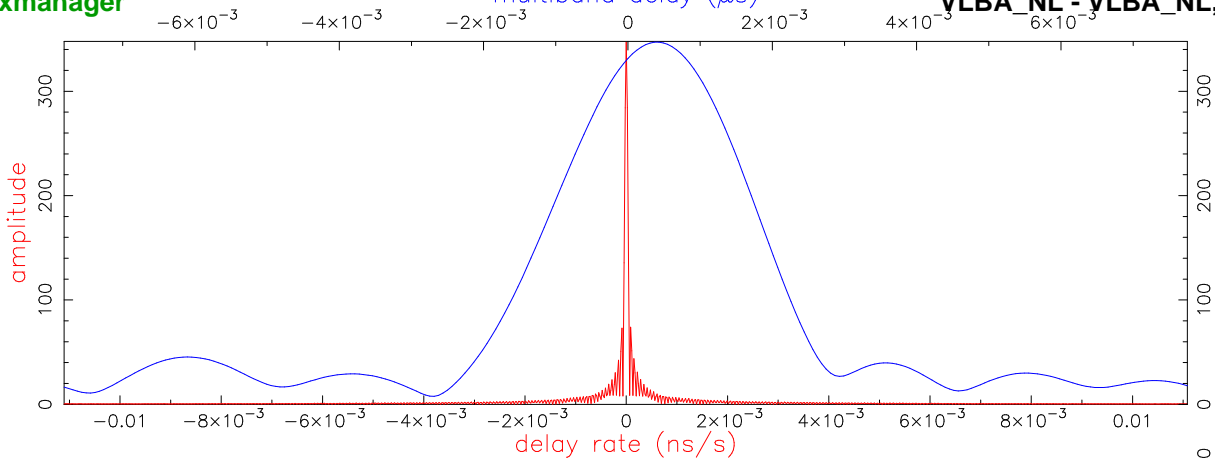
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

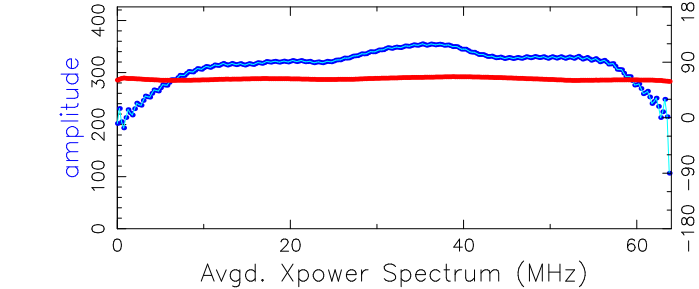
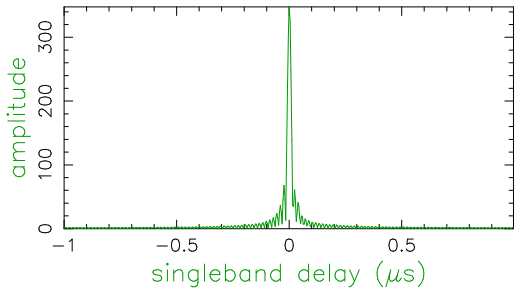
0420-014.1JLJ5P, No0075, nn

VLBA_NL - VLBA_NL, fgroup W, pol LR

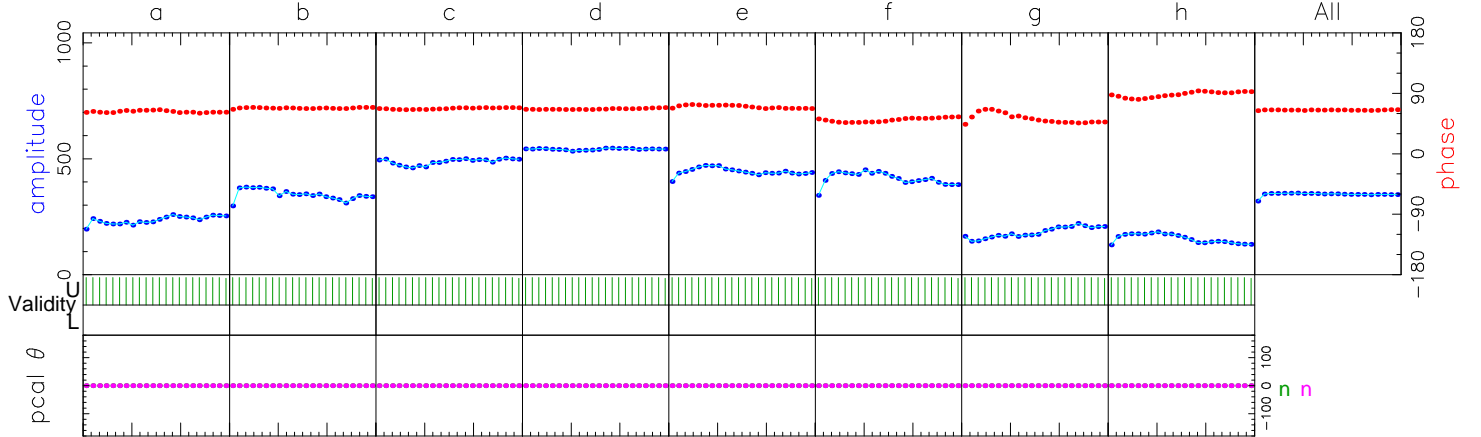
multiband delay (μ s)



Fringe quality 7
 SNR 12758.9
 Int time 179.978
 Amp 347.780
 Phase 65.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000587
 MBD 0.000424
 Fringe rate (Hz)
 -0.000029
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512
 Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141925
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"



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		
n	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	4.23781250000E-04		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		4.23781E-04	+/- 8.5E-08
Sband delay (usec)	5.87250000000E-04		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		5.87250E-04	+/- 6.8E-07
Phase delay (usec)	2.05281345337E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		2.05281E-06	+/- 2.8E-10
Delay rate (us/s)	-3.30369945361E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-3.30370E-10	+/- 2.7E-12
Total phase (deg)	65.0		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		65.0	+/- 0.0

ph/seg (deg) 0.4 0.0 Search (1024X32) 346.356 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 2.0 0.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 12.6 0.0 Inc. seg. avg. 347.052 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.1 0.0 Inc. frq. avg. 351.238 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 192.7 el 46.2 pa 9.5 n: az 192.7 el 46.2 pa 9.5 u,v (fr/asec) 0.000 0.000 ion window (TEC) 0.00 0.00
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/nn..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/nn.W.124.1JLJ5P simultaneous interpolator

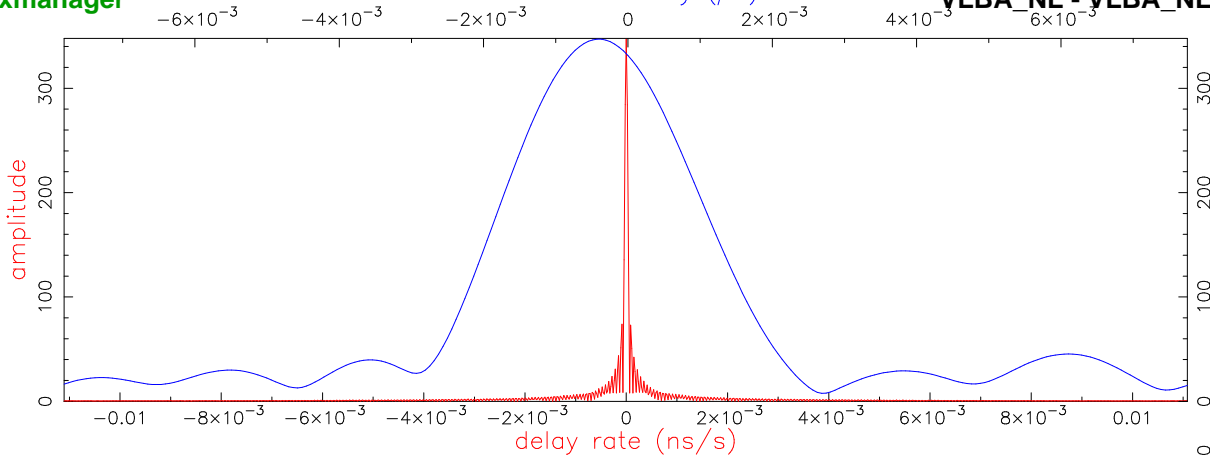
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, nn

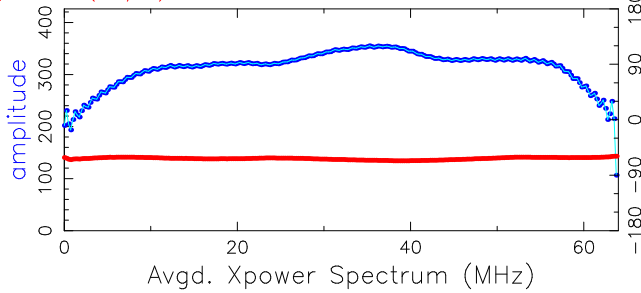
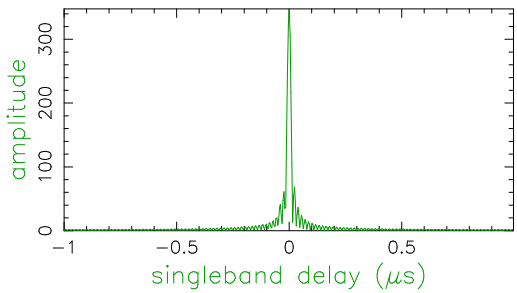
VLBA_NL - VLBA_NL, fgroup W, pol RL

multiband delay (μ s)



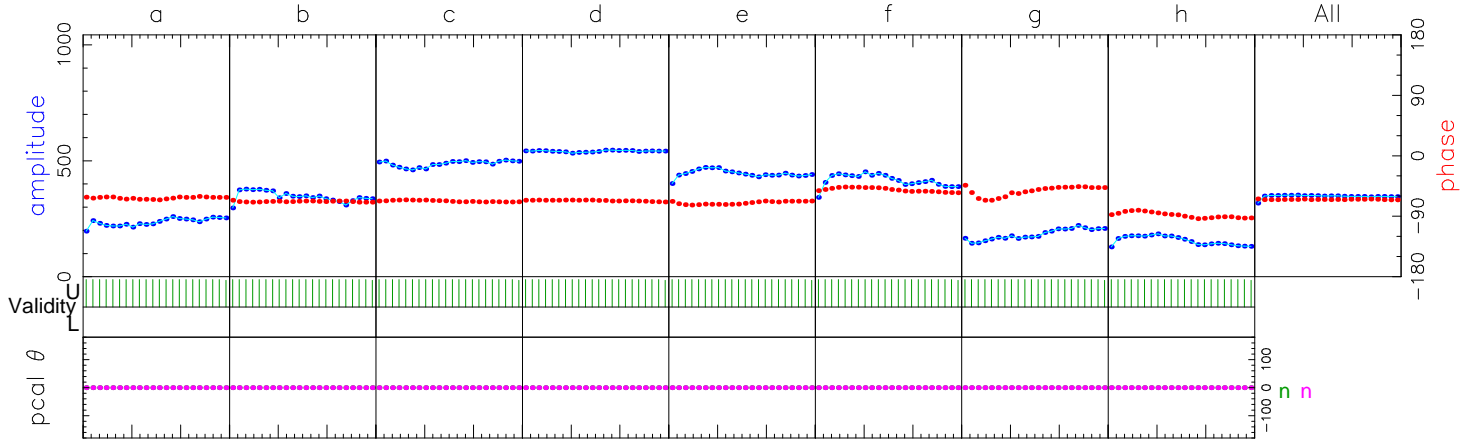
Fringe quality 7

SNR 12758.9
 Int time 179.978
 Amp 347.780
 Phase -65.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.000587
 MBD -0.000424
 Fringe rate (Hz) 0.000029
 Ion TEC 0.000
 Ref freq (MHz) 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build 2021:041:222607
 2021:042:141927
 2020:247:085004
 RA & Dec (J2000) 04h23m15.800724s --1°20'33.065613"

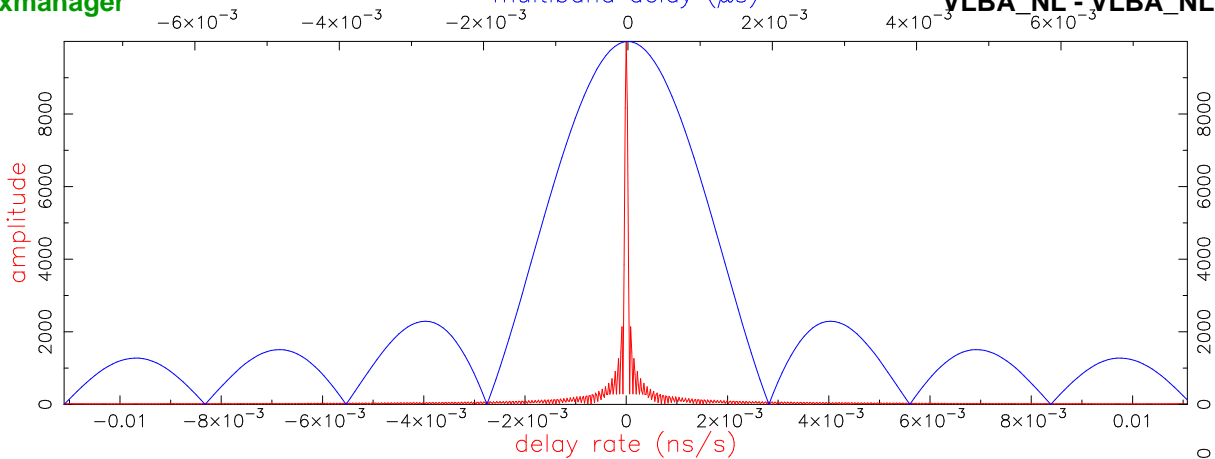
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
	-62.7	-68.0	-67.4	-66.7	-70.1	-50.3	-51.9	-87.8	Phase	-65.0
	236.3	346.5	487.6	541.4	445.1	415.4	181.8	155.8	Ampl.	351.2
	256.4	257.0	257.1	257.0	256.6	257.1	256.1	256.8	Sbd box	256.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.23781250000E-04		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-4.23781E-04	+/- 8.5E-08
Sband delay (usec)	-5.87250000000E-04		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-5.87250E-04	+/- 6.8E-07
Phase delay (usec)	-2.05281345346E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-2.05281E-06	+/- 2.8E-10
Delay rate (us/s)	3.30369945361E-10		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		3.30370E-10	+/- 2.7E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-65.0	+/- 0.0

ph/seg (deg) 0.4 0.0 Theor. Amplitude 347.780 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 2.0 0.0 Search (1024X32) 346.356 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 12.6 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.1 0.0 Inc. seg. avg. 347.052 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 n: az 192.7 el 46.2 pa 9.5 n: az 192.7 el 46.2 pa 9.5 u,v (fr/asec) 0.000 0.000 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/No0075/nn..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/nn.W.139.1JLJ5P simultaneous interpolator

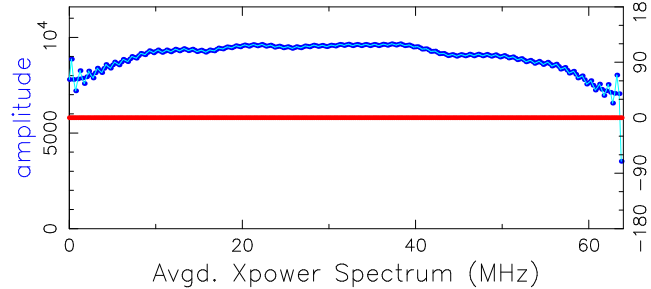
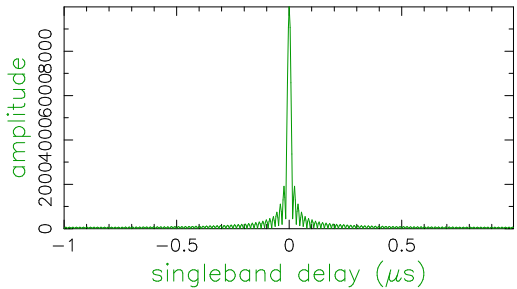
multiband delay (μ s)



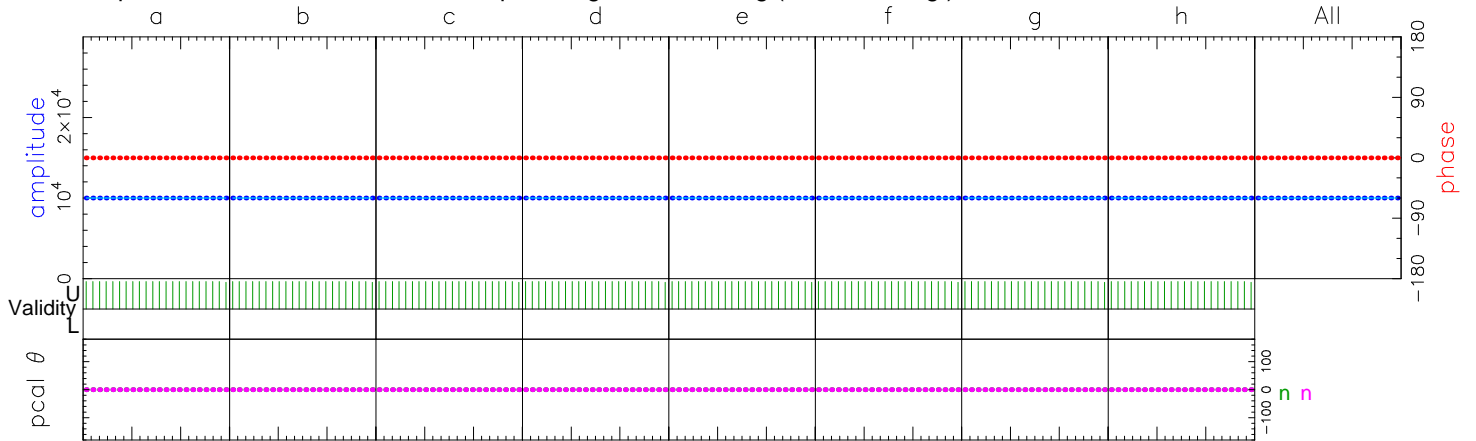
Fringe quality 9

SNR 366866.1
Int time 179.978
Amp 9999.998
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 16383
Start 2020:286
Stop 2020:286
FRT 094130.00
Corr/FF/build
2021:041:222607
2021:042:141922
2020:247:085004
RA & Dec (J2000)
04h23m15.800724s
--1°20'33.065613"



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
n	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
n	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
									Tracks	
									Tracks	

Group delay (usec)(sbd)	0.000000000000E+00	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	0.000000E+00	+/-	3.0E-09
Sband delay (usec)	0.000000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.000000E+00	+/-	2.3E-08
Phase delay (usec)	0.000000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.000000E+00	+/-	9.9E-12
Delay rate (us/s)	0.000000000000E+00	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	0.000000E+00	+/-	9.5E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	0.0	+/-	0.0

ph/seg (deg)	0.0	RMS	Theor.	Amplitude	9999.998 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	0.0	0.0	0.0	Search (1024X32)	9999.998	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MISamp/s): 128	mb window (us) -0.008 0.008
n: az 192.7 el 46.2 pa 9.5	n: az 192.7 el 46.2 pa 9.5	u,v (fr/asec) 0.000	0.000	Inc. frq. avg.	9999.998	Data rate(Mb/s): 2048	dr window (ns/s) -0.011 0.011
Control file: cf_1234_88GHz_gmva	Input file: /Exps/c202c/v1/1234/No0075/nn..1JLJ5P	Output file: /Exps/c202c/v1/1234/No0075/nn.W.92.1JLJ5P				nlags: 256 t_cohere infinite	ion window (TEC) 0.00 0.00

simultaneous interpolator

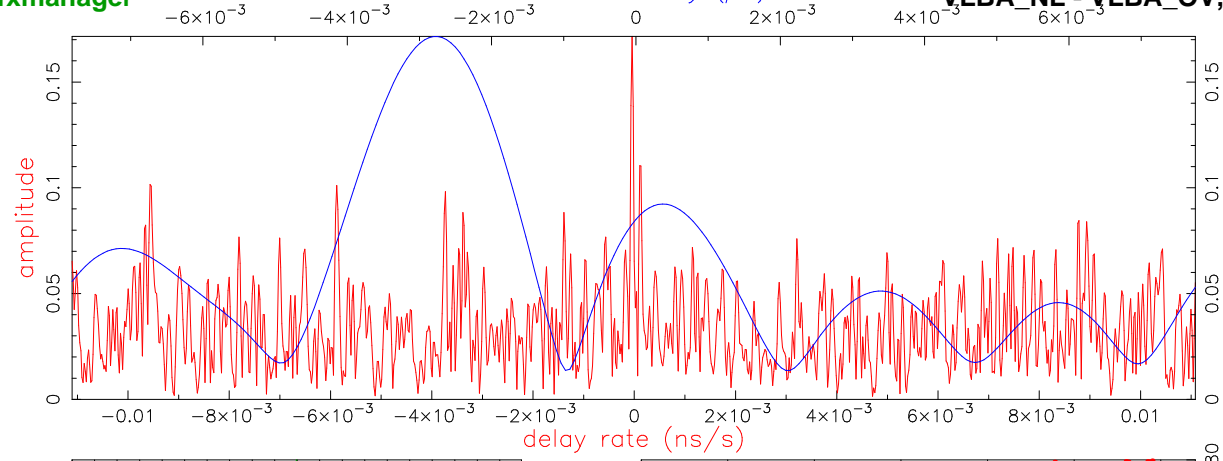
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, no

VLBA_NL - VLBA_OV, fgroup W, pol RR

multiband delay (μ s)



Fringe quality 0

SNR 6.3

Int time 179.978

Amp 0.172

Phase 114.5

PFD 4.1e-02

Delays (us)

SBD -0.003825

MBD -0.002771

Fringe rate (Hz)

-0.004115

Ion TEC 0.000

Ref freq (MHz)

87940.0000

AP (sec) 0.512

Exp. c202c

Exper # 16383

Yr:day 2020:286

Start 094000.00

Stop 094300.22

FRT 094130.00

Corr/FF/build

2021:041:222607

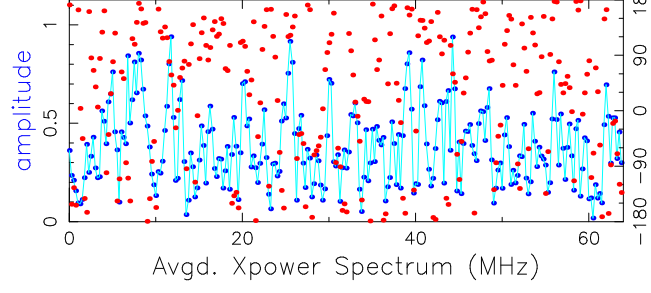
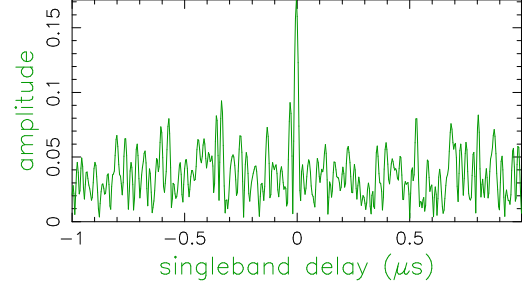
2021:042:141924

2020:247:085004

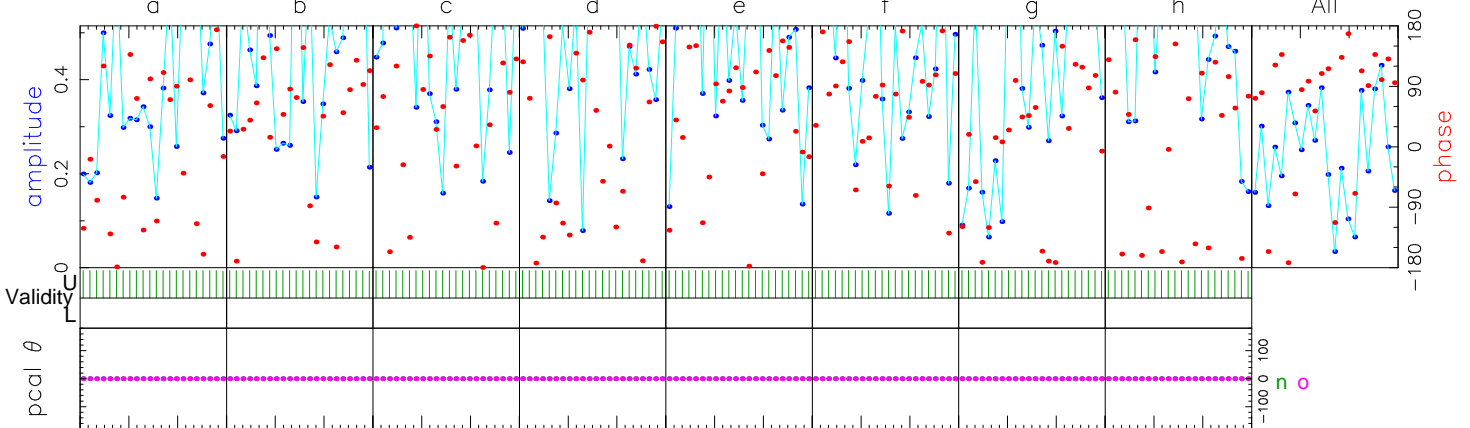
RA & Dec (J2000)

04h23m15.800724s

--1°20'33.065613"



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		
n	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-5.33902882674E+02		Apriori delay (usec)		-5.33900111468E+02		Resid mbdelay (usec)		-2.77121E-03	+/- 1.7E-04
Sband delay (usec)	-5.33903936968E+02		Apriori clock (usec)		-2.1145588E+01		Resid sbdelay (usec)		-3.82550E-03	+/- 1.4E-03
Phase delay (usec)	-5.33900107852E+02		Apriori clockrate (us/s)		6.0000003E-07		Resid phdelay (usec)		3.61602E-06	+/- 5.8E-07
Delay rate (us/s)	-5.57189349465E-01		Apriori rate (us/s)		-5.57189302678E-01		Resid rate (us/s)		-4.67876E-08	+/- 5.5E-09
Total phase (deg)			Apriori accel (us/s/s)		2.57096300947E-06		Resid phase (deg)		114.5	+/- 18.2

ph/seg (deg) 69.6 42.7 Search (1024X32) 0.169 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 76.2 74.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 36.6 25.7 Inc. seg. avg. 0.193 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 37.0 44.9 Inc. frq. avg. 0.180 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

n: az 192.7 el 46.2 pa 9.5 o: az 152.6 el 48.0 pa -21.2 u,v (fr/asec) 3258.601 553.682 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/no..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/no.W.110.1JLJ5P

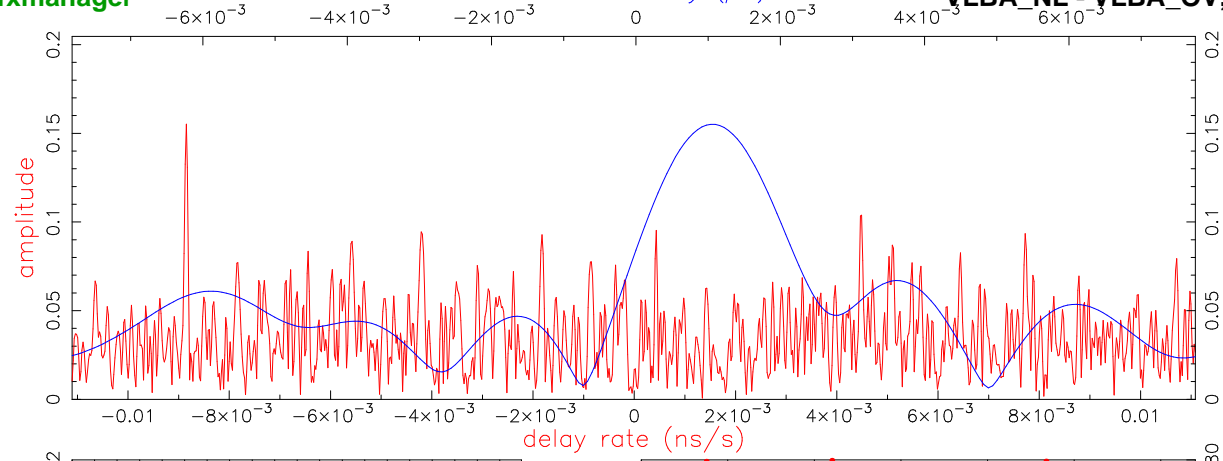
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, no

VLBA_NL - VLBA_OV, fgroup W, pol LR

multiband delay (μ s)



Fringe quality 0

SNR 5.7

Int time 179.978

Amp 0.205

Phase -146.7

PFD 7.9e-01

Delays (us)

SBD -0.308501

MBD 0.001065

Fringe rate (Hz)

-0.779150

Ion TEC 0.000

Ref freq (MHz)

87940.0000

AP (sec) 0.512

Exp. c202c

Exper # 16383

Yr:day 2020:286

Start 094000.00

Stop 094300.22

FRT 094130.00

Corr/FF/build

2021:041:222607

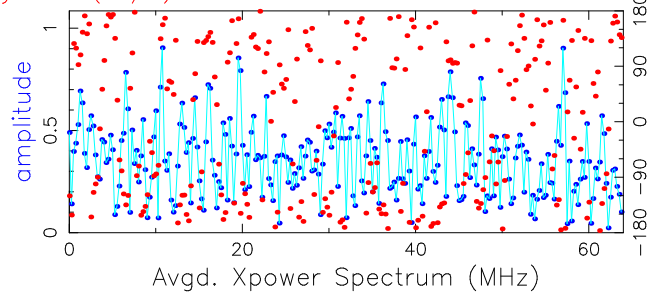
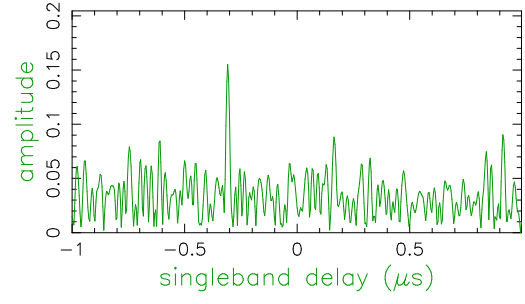
2021:042:141926

2020:247:085004

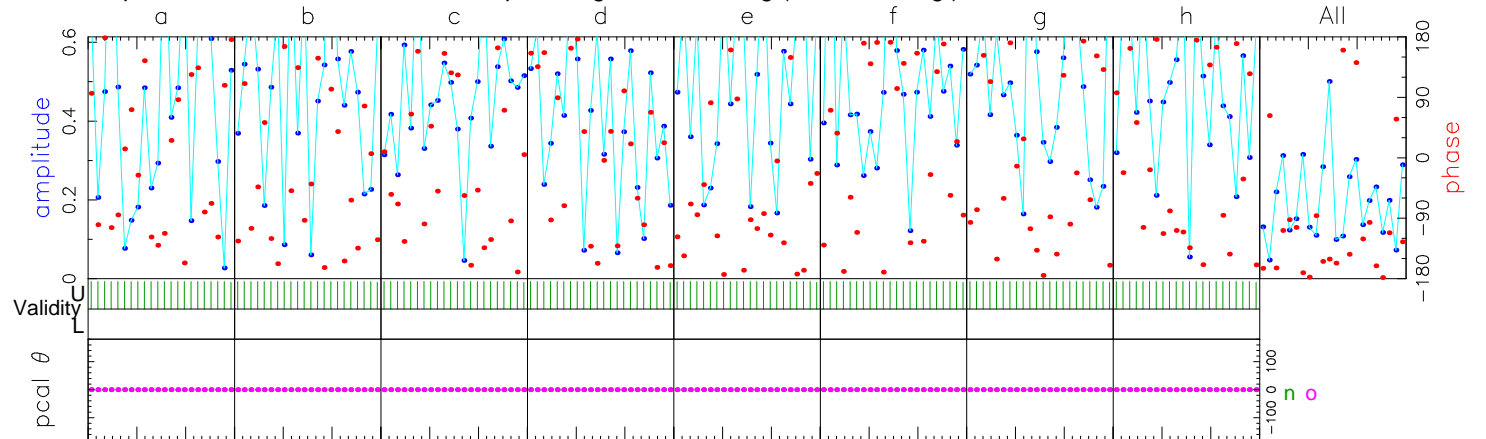
RA & Dec (J2000)

04h23m15.800724s

--1°20'33.065613"



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
	-136.7	-132.0	-151.9	143.3	-132.0	171.8	-134.3	-135.9	Phase	-146.7
	0.2	0.2	0.1	0.1	0.3	0.2	0.3	0.3	Ampl.	0.2
	241.3	490.3	105.5	67.1	179.6	247.5	457.4	437.5	Sbd box	178.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.34211546889E+02		Apriori delay (usec)		-5.33900111468E+02		Resid mbdelay (usec)		1.06458E-03	+/- 1.9E-04
Sband delay (usec)	-5.34208612218E+02		Apriori clock (usec)		-2.1145588E+01		Resid sbdelay (usec)		-3.08501E-01	+/- 1.5E-03
Phase delay (usec)	-5.33900116101E+02		Apriori clockrate (us/s)		6.0000003E-07		Resid phdelay (usec)		-4.63259E-06	+/- 6.4E-07
Delay rate (us/s)	-5.57198162694E-01		Apriori rate (us/s)		-5.57189302678E-01		Resid rate (us/s)		-8.86002E-06	+/- 6.1E-09
Total phase (deg)			Apriori accel (us/s/s)		2.57096300947E-06		Resid phase (deg)		-146.7	+/- 20.1

ph/seg (deg) 57.8 47.2 Search (1024X32) 0.148 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 72.8 82.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 35.3 28.5 Inc. seg. avg. 0.195 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 37.6 49.7 Inc. frq. avg. 0.202 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

n: az 192.7 el 46.2 pa 9.5 o: az 152.6 el 48.0 pa -21.2 u,v (fr/asec) 3258.601 553.682 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/no..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/no.W.127.1JLJ5P

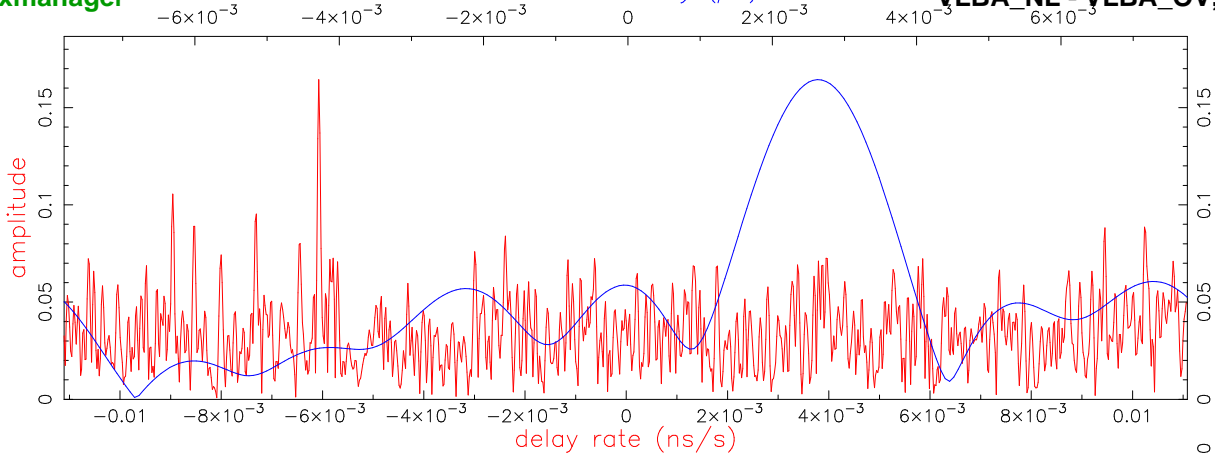
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, no

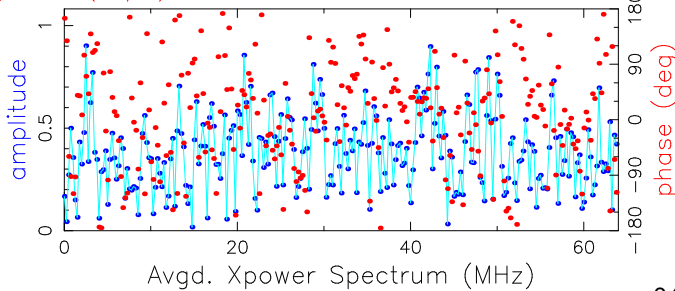
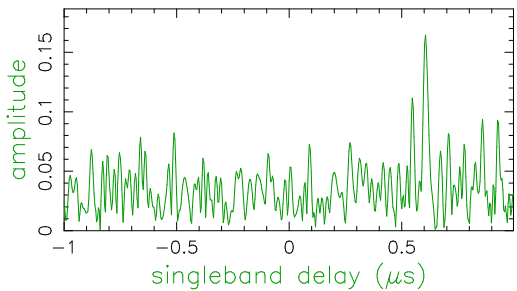
VLBA_NL - VLBA_OV, fgroup W, pol RL

multiband delay (μ s)



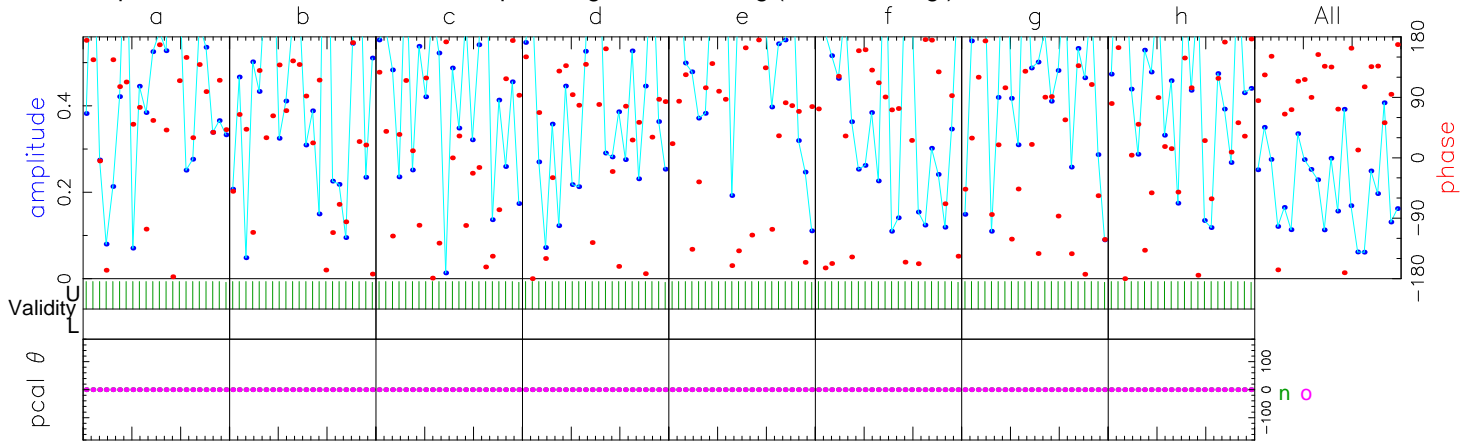
Fringe quality 0

SNR 6.0
 Int time 179.978
 Amp 0.187
 Phase 121.0
 PFD 1.9e-01
 Delays (us)
 SBD 0.605112
 MBD 0.002633
 Fringe rate (Hz)
 -0.534160
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141927
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

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		
n	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	-5.33288103231E+02								2.63324E-03	+/- 1.8E-04
Sband delay (usec)	-5.33294999468E+02								6.05112E-01	+/- 1.4E-03
Phase delay (usec)	-5.33900107646E+02								3.82186E-06	+/- 6.0E-07
Delay rate (us/s)	-5.57195376825E-01								-6.07415E-06	+/- 5.8E-09
Total phase (deg)		-167.9							121.0	+/- 19.0
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-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) 45.0 44.5 Search (1024X32) 0.159 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 67.4 77.7 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 31.3 26.9 Inc. seg. avg. 0.188 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.2 46.9 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
 n: az 192.7 el 46.2 pa 9.5 o: az 152.6 el 48.0 pa -21.2 u,v (fr/asec) 3258.601 553.682 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/no..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/no.W.142.1JLJ5P

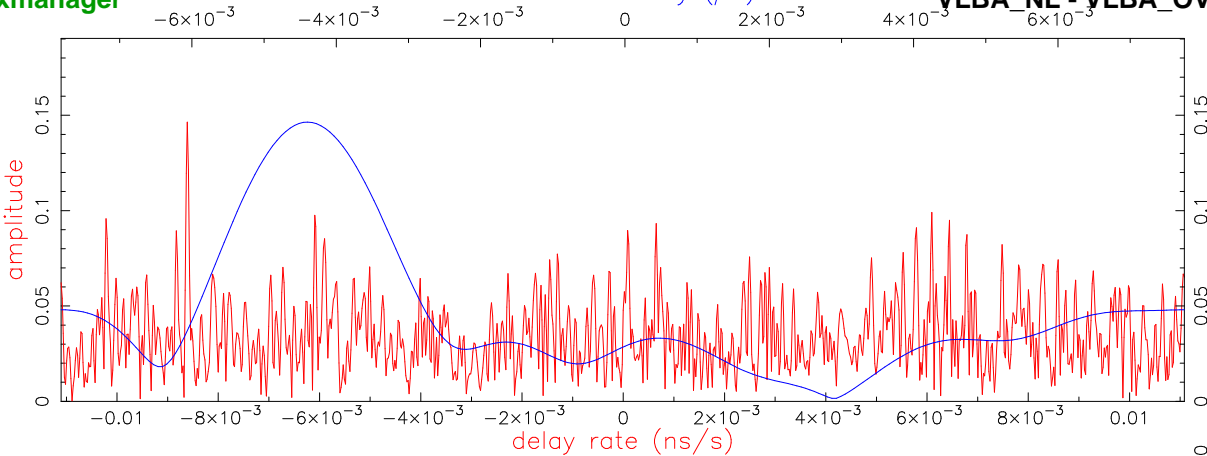
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, no

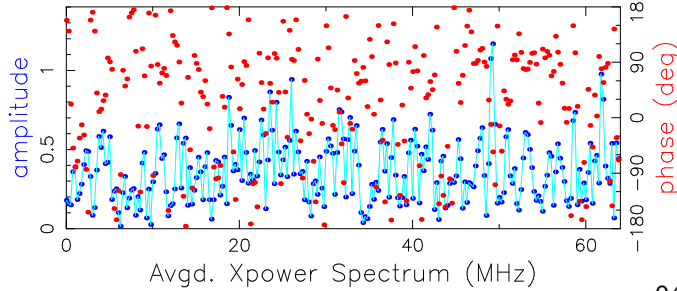
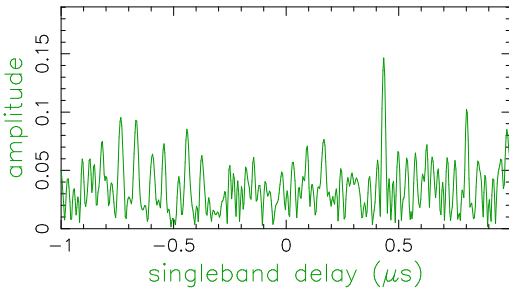
VLBA_NL - VLBA_OV, fgroup W, pol LL

multiband delay (μ s)



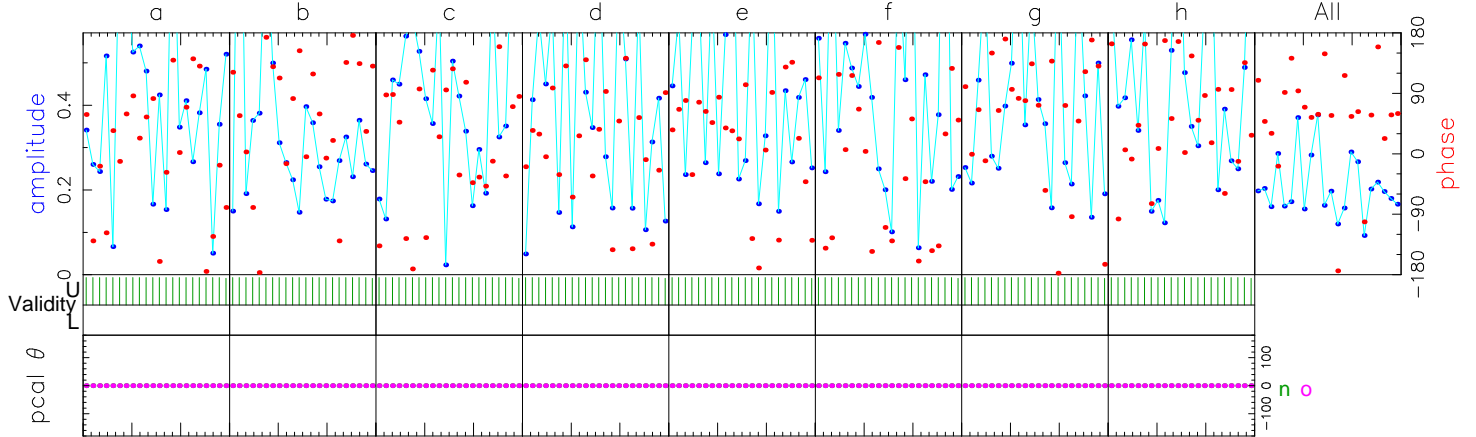
Fringe quality 0

SNR 5.4
 Int time 179.978
 Amp 0.190
 Phase 71.1
 PFD 1.0e+00
 Delays (us)
 SBD 0.433310
 MBD -0.004408
 Fringe rate (Hz)
 -0.758502
 Ion TEC 0.000
 Ref freq (MHz)
 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141922
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

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		
n	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	-5.33467019322E+02								Resid mbdelay (usec)	-4.40785E-03 +/- 2.0E-04
Sband delay (usec)	-5.33466801218E+02								Resid sbdelay (usec)	4.33310E-01 +/- 1.6E-03
Phase delay (usec)	-5.33900109222E+02								Resid phdelay (usec)	2.24666E-06 +/- 6.7E-07
Delay rate (us/s)	-5.57197927903E-01								Resid rate (us/s)	-8.62522E-06 +/- 6.5E-09
Total phase (deg)		-217.8							Resid phase (deg)	71.1 +/- 21.3
RMS	60.4	50.0							PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	60.4	50.0	Amplitude	0.190 +/- 0.035					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	65.5	87.3	Search (1024X32)	0.141					SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	21.3	30.2	Inc. seg. avg.	0.198					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	36.8	52.6	Inc. frq. avg.	0.177					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
n: az 192.7 el 46.2 pa 9.5		o: az 152.6 el 48.0 pa -21.2		u,v (fr/asec) 3258.601 553.682					nlags: 256 t_cohere infinite	simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/no..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/no.W.93.1JLJ5P

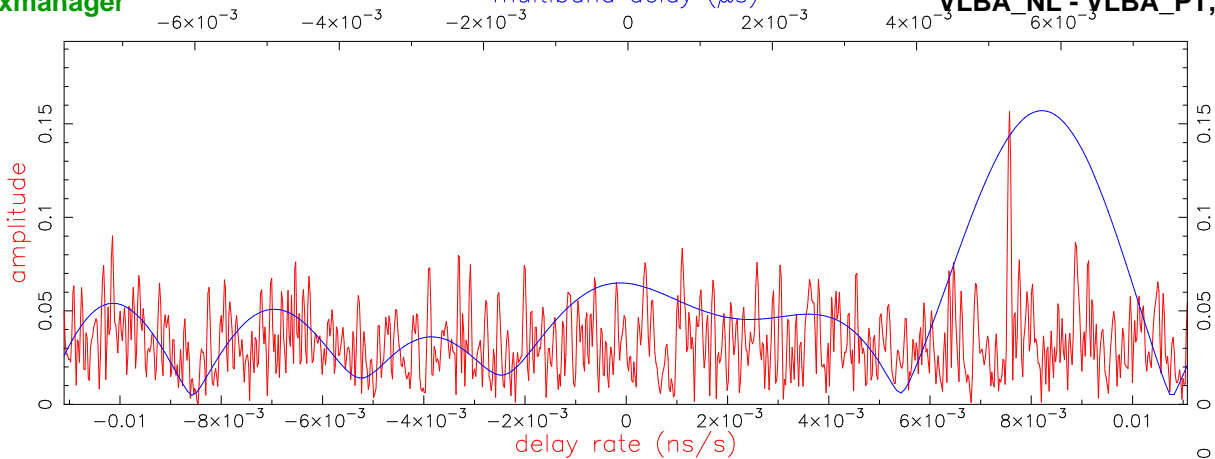
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, np

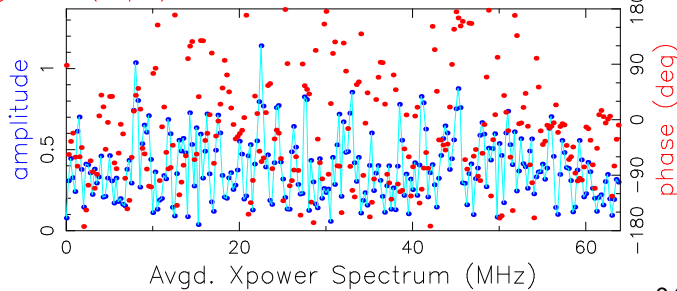
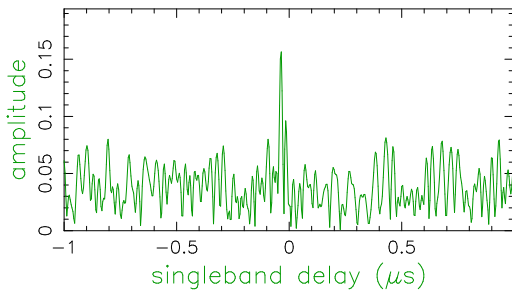
VLBA_NL - VLBA_PT, fgroup W, pol RR

multiband delay (μ s)



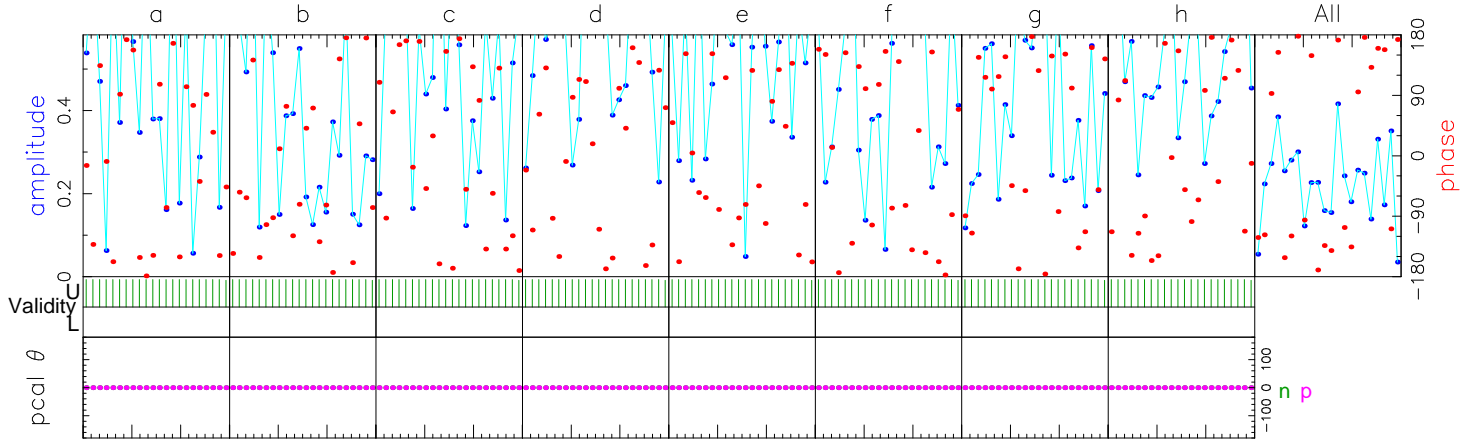
Fringe quality 0

SNR 5.8
 Int time 179.976
 Amp 0.194
 Phase -171.8
 PFD 5.0e-01
 Delays (us)
 SBD -0.036496
 MBD 0.005639
 Fringe rate (Hz) 0.667336
 Ion TEC 0.000
 Ref freq (MHz) 87940.0000
 AP (sec) 0.512



Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141925
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 -1°20'33.065613"

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

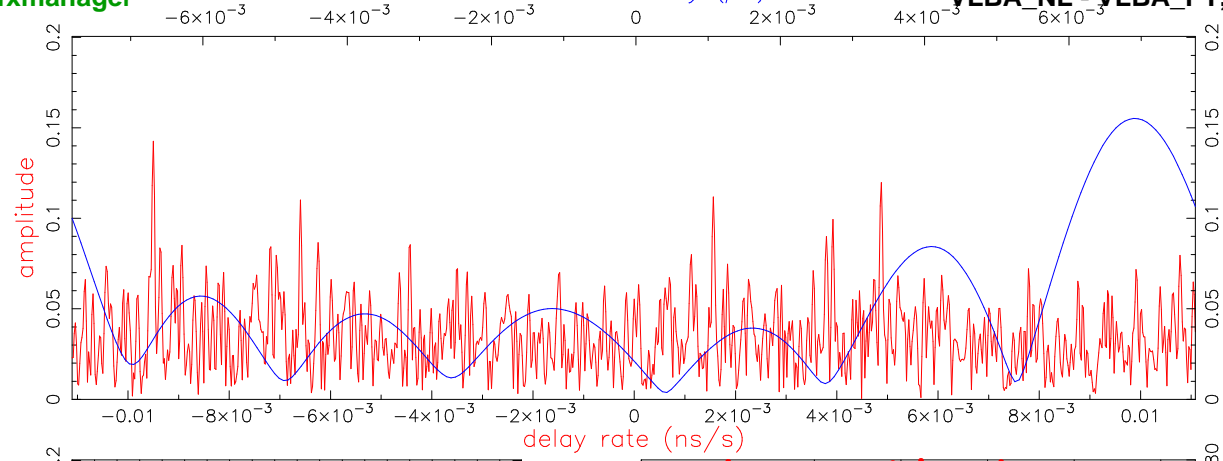


	87812.00	87876.00	87940.00	88004.00	88068.00	88132.00	88196.00	88260.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.81305726564E+03				-1.81301602987E+03				5.63924E-03	+/- 1.9E-04
Sband delay (usec)	-1.81305252562E+03				9.2568398E-02				-3.64957E-02	+/- 1.5E-03
Phase delay (usec)	-1.81301603530E+03				1.0000003E-07				-5.42658E-06	+/- 6.2E-07
Delay rate (us/s)	-3.49378883362E-01				-3.49386471899E-01				7.58854E-06	+/- 6.0E-09
Total phase (deg)			-51.8		9.38020120079E-06				-171.8	+/- 19.7
	RMS	Theor.	Amplitude	0.194 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	48.9	46.1	Search (1024X32)	0.154	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	74.4	80.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	34.1	27.8	Inc. seg. avg.	0.211	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	28.8	48.5	Inc. frq. avg.	0.191	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

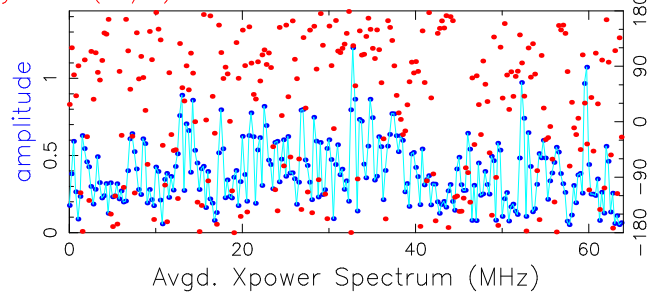
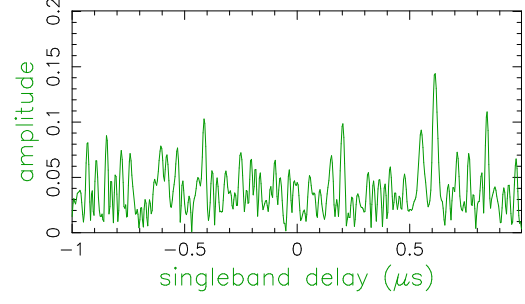
n: az 192.7 el 46.2 pa 9.5 p: az 166.8 el 53.7 pa -10.4 u,v (fr/asec) 2046.344 913.204 simultaneous interpolator

Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/np..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/np.W.117.1JLJ5P

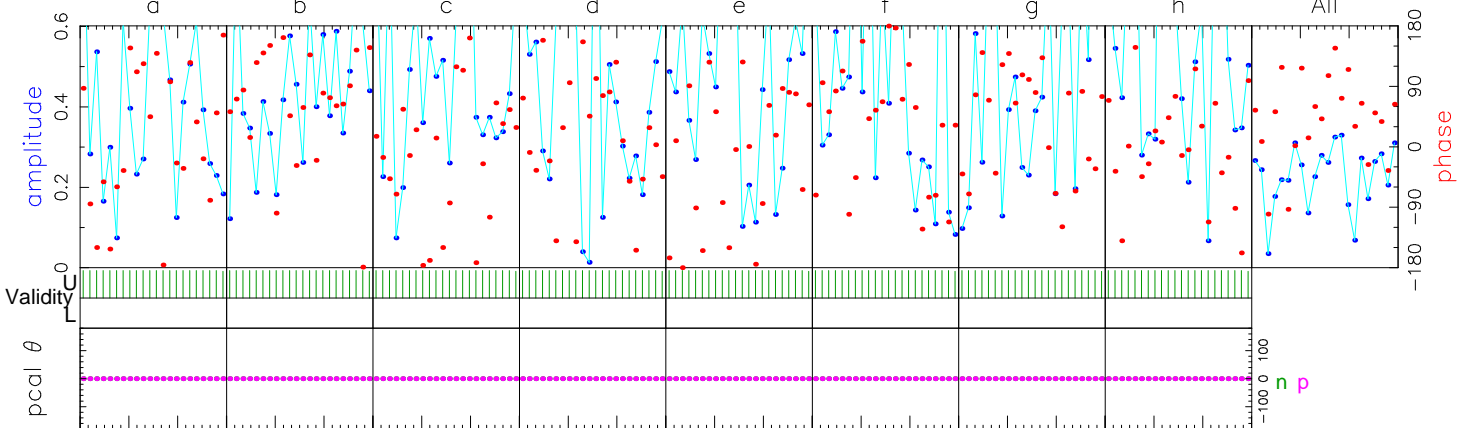
multiband delay (μ s)



Fringe quality 0
SNR 5.3
Int time 179.976
Amp 0.200
Phase 56.0
PFD 1.0e+00
Delays (us)
SBD 0.611596
MBD -0.008301
Fringe rate (Hz)
-0.836988
Ion TEC 0.000
Ref freq (MHz)
87940.0000
AP (sec) 0.512
Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2021:041:222607
2021:042:141926
2020:247:085004
RA & Dec (J2000)
04h23m15.800724s
--1°20'33.065613"



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		
n	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-1.81239933065E+03				-1.81301602987E+03				Resid mbdelay (usec)	-8.30078E-03 +/- 2.0E-04
Sband delay (usec)	-1.81240443412E+03				9.2568398E-02				Resid sbdelay (usec)	6.11596E-01 +/- 1.6E-03
Phase delay (usec)	-1.81301602810E+03				1.0000003E-07				Resid phdelay (usec)	1.76881E-06 +/- 6.8E-07
Delay rate (us/s)	-3.49395989618E-01				-3.49386471899E-01				Resid rate (us/s)	-9.51772E-06 +/- 6.5E-09
Total phase (deg)		-184.1			9.38020120079E-06				Resid phase (deg)	56.0 +/- 21.5

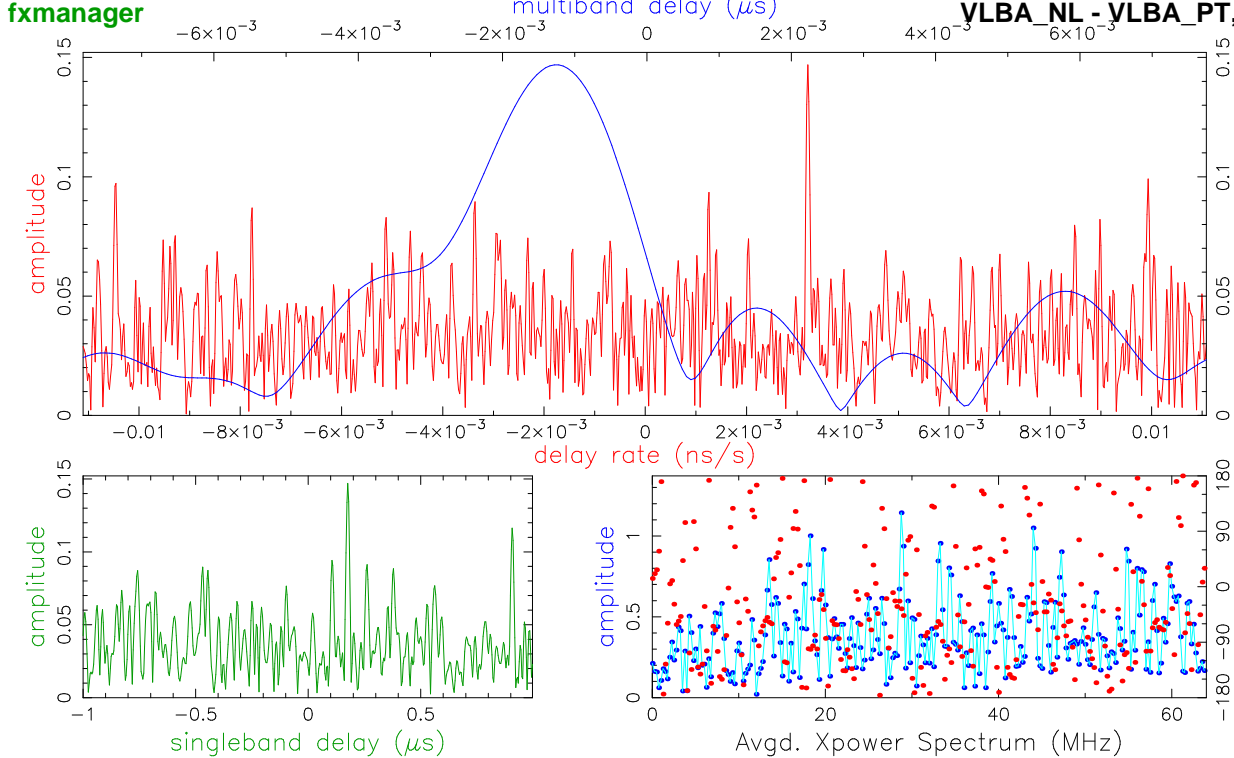
ph/seg (deg) 64.8 50.5 Search (1024X32) 0.153 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 77.6 88.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 28.1 30.4 Inc. seg. avg. 0.227 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 53.1 53.1 Inc. frq. avg. 0.192 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
n: az 192.7 el 46.2 pa 9.5 p: az 166.8 el 53.7 pa -10.4 u,v (fr/asec) 2046.344 913.204 simultaneous interpolator
Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/np..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/np.W.131.1JLJ5P

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

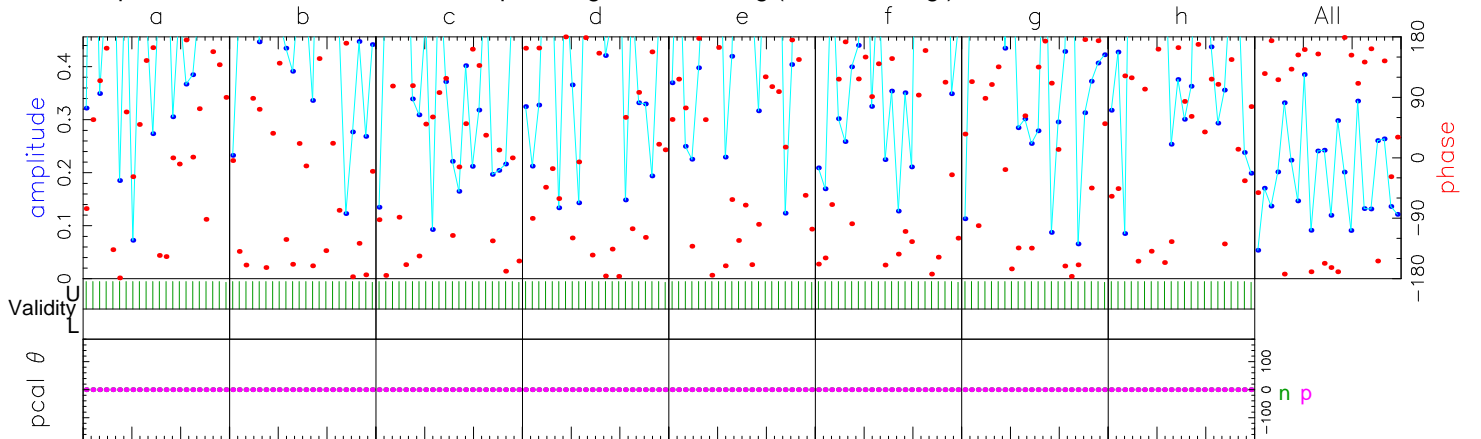
0420-014.1JLJ5P, No0075, np

VLBA_NL - VLBA_PT, fgroup W, pol RL



Fringe quality 0
 SNR 5.4
 Int time 179.976
 Amp 0.152
 Phase 161.4
 PFD 1.0e+00
 Delays (us)
 SBD 0.175828
 MBD -0.001255
 Fringe rate (Hz) 0.282803
 Ion TEC 0.000
 Ref freq (MHz) 87940.0000
 AP (sec) 0.512
 Exp. c202c
 Exper # 16383
 Yr:day 2020:286
 Start 094000.00
 Stop 094300.22
 FRT 094130.00
 Corr/FF/build
 2021:041:222607
 2021:042:141928
 2020:247:085004
 RA & Dec (J2000)
 04h23m15.800724s
 --1°20'33.065613"

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
Validity	128.1	-171.1	137.3	-148.4	166.5	163.6	150.0	154.6	Phase	161.4
U/L	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	Ampl.	0.1
n	325/0	441.5	62.4	18.6	204.5	264.8	179.7	499.8	Sbd box	302.0
p	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n	1000	1000	1000	1000	1000	1000	1000	1000	Manl PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	-1.81284540976E+03		Apriori delay (usec)		-1.81301602987E+03		Resid mbdelay (usec)		-1.25489E-03	+/- 2.0E-04
Sband delay (usec)	-1.81284020237E+03		Apriori clock (usec)		9.2568398E-02		Resid sbdelay (usec)		1.75828E-01	+/- 1.6E-03
Phase delay (usec)	-1.81301602477E+03		Apriori clockrate (us/s)		1.0000003E-07		Resid phdelay (usec)		5.09875E-06	+/- 6.7E-07
Delay rate (us/s)	-3.49383256039E-01		Apriori rate (us/s)		-3.49386471899E-01		Resid rate (us/s)		3.21586E-06	+/- 6.5E-09
Total phase (deg)			Apriori accel (us/s/s)		9.38020120079E-06		Resid phase (deg)		161.4	+/- 21.3

ph/seg (deg) 61.3 49.9 Search (1024X32) 0.145 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 68.6 87.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 29.4 30.1 Inc. seg. avg. 0.147 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 32.7 52.5 Inc. frq. avg. 0.145 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 192.7 el 46.2 pa 9.5 p: az 166.8 el 53.7 pa -10.4 u,v (fr/asec) 2046.344 913.204 simultaneous interpolator
 Control file: cf_1234_88GHz_gmva Input file: /Exps/c202c/v1/1234/No0075/np..1JLJ5P Output file: /Exps/c202c/v1/1234/No0075/np.W.144.1JLJ5P

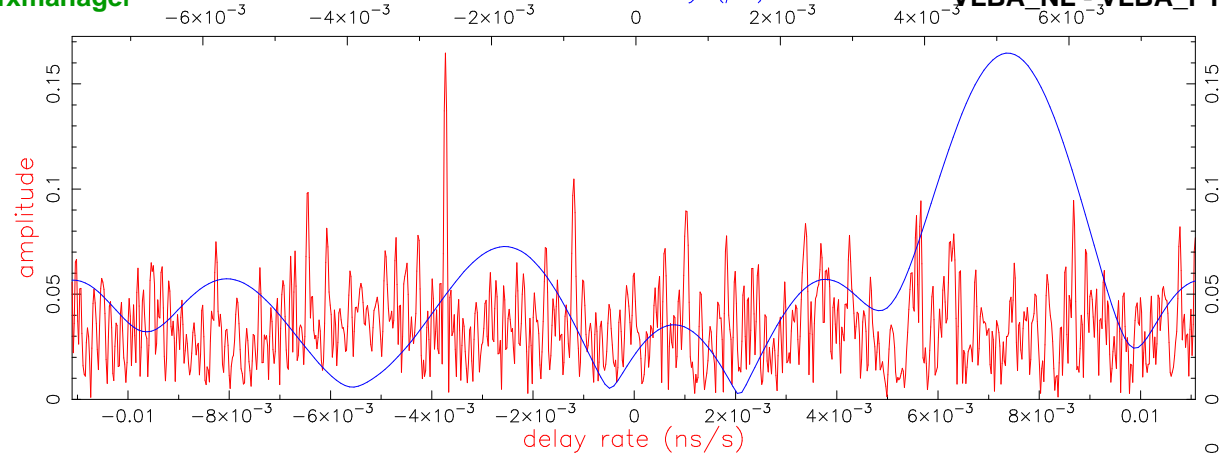
Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

0420-014.1JLJ5P, No0075, np

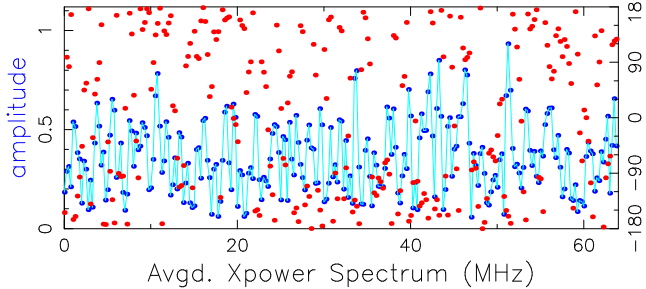
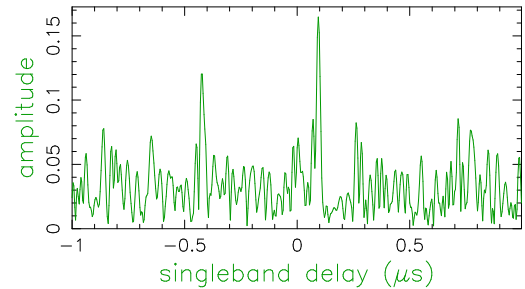
VLBA_NL - VLBA_PT, fgroup W, pol LL

multiband delay (μ s)



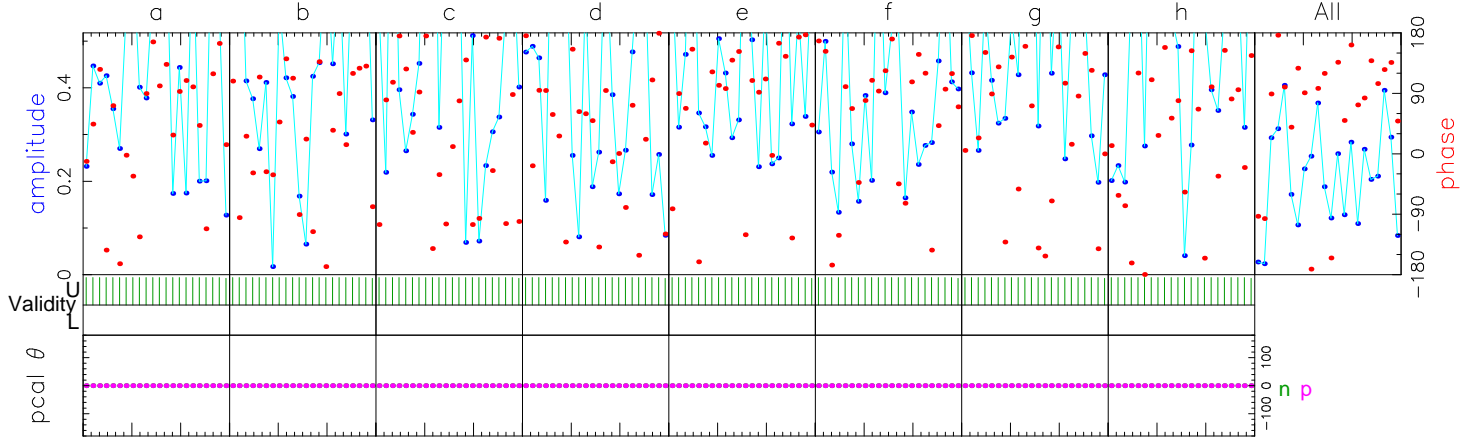
Fringe quality 0

SNR 6.0
Int time 179.976
Amp 0.173
Phase 118.2
PFD 1.8e-01
Delays (us)
SBD 0.093960
MBD 0.005156
Fringe rate (Hz) -0.327758
Ion TEC 0.000
Ref freq (MHz) 87940.0000
AP (sec) 0.512



Exp. c202c
Exper # 16383
Yr:day 2020:286
Start 094000.00
Stop 094300.22
FRT 094130.00
Corr/FF/build
2021:041:222607
2021:042:141922
2020:247:085004
RA & Dec (J2000)
04h23m15.800724s
--1°20'33.065613"

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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.81291712341E+03									
Sband delay (usec)	-1.81292206987E+03									
Phase delay (usec)	-1.81301602614E+03									
Delay rate (us/s)	-3.49390198962E-01									
Total phase (deg)			-121.8							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
RMS	61.7	44.5								
Theor.										
Amplitude										
Search (1024X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
ph/seg (deg)										
amp/seg (%)										
ph/frq (deg)										
amp/frq (%)										
n: az 192.7 el 46.2 pa 9.5										
p: az 166.8 el 53.7 pa -10.4										
u, v (fr/asec) 2046.344 913.204										
Control file: cf_1234_88GHz_gmva										
Input file: /Exps/c202c/v1/1234/No0075/np..1JLJ5P										
Output file: /Exps/c202c/v1/1234/No0075/np.W.99.1JLJ5P										

simultaneous interpolator