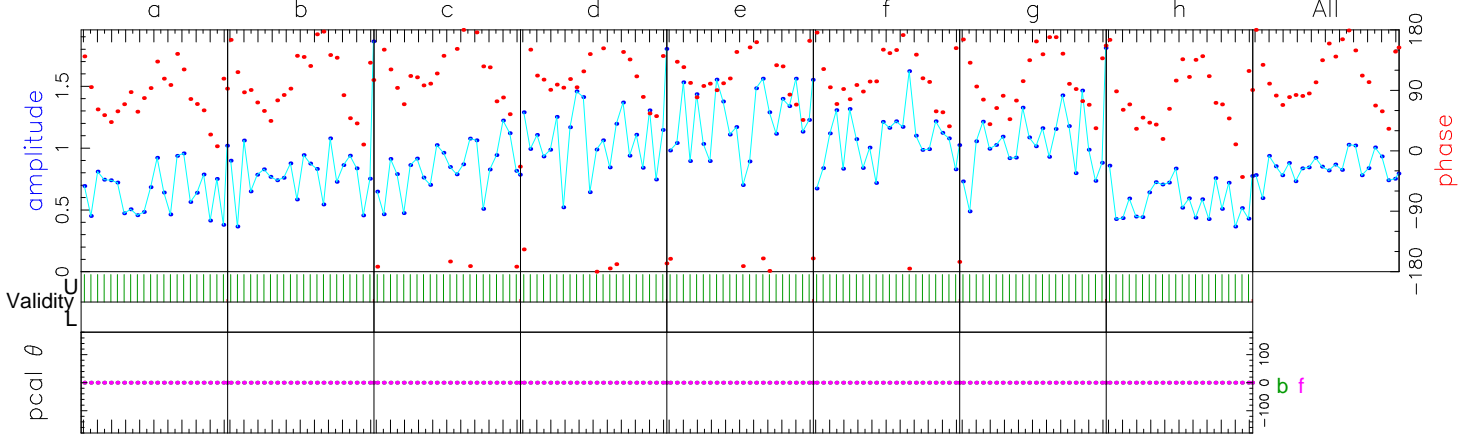


Fringe quality 6

SNR 43.7
Int time 599.437
Amp 0.652
Phase 110.7
PFD 0.0e+00
Delays (us)
SBD -0.002994
MBD -0.002893
Fringe rate (Hz)
-0.001785
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

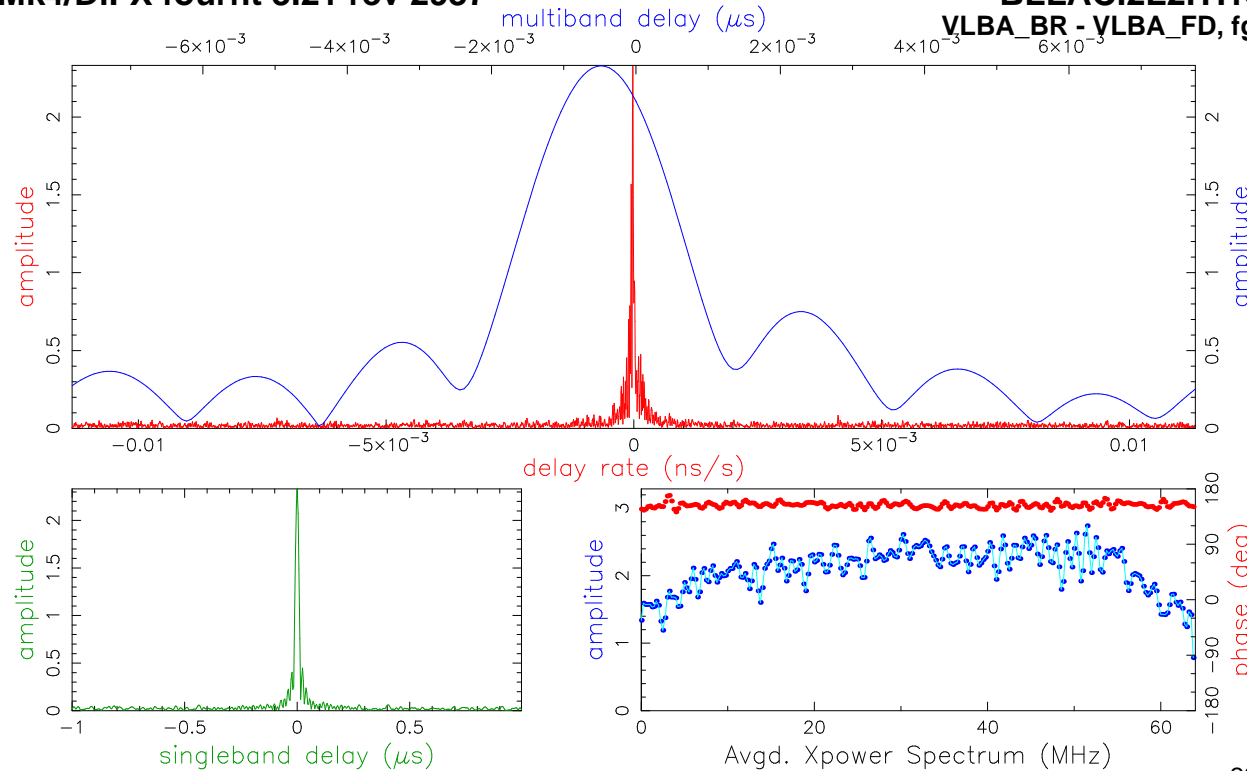
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232108
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	83.6	102.2	127.3	125.6	124.0	113.1	104.9	76.5	Phase	110.7
	0.5	0.6	0.6	0.8	0.9	0.8	0.8	0.4	Ampl.	0.7
	255.8	256.7	256.2	256.0	256.2	256.0	256.3	255.8	Sbd box	256.2
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
f	0	0	0	0	0	0	0	0	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	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	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-8.62286130799E+02		Apriori delay (usec)		-8.62283237474E+02		Resid mbdelay (usec)		-2.89332E-03	+/- 2.5E-05
Sband delay (usec)	-8.62286231724E+02		Apriori clock (usec)		-2.1702612E+01		Resid sbdelay (usec)		-2.99425E-03	+/- 2.0E-04
Phase delay (usec)	-8.62283233905E+02		Apriori clockrate (us/s)		-4.0430615E-07		Resid phdelay (usec)		3.56911E-06	+/- 8.5E-08
Delay rate (us/s)	1.07503675651E-01		Apriori rate (us/s)		1.07503696373E-01		Resid rate (us/s)		-2.07221E-08	+/- 2.4E-10
Total phase (deg)			Apriori accel (us/s/s)		2.23452714986E-05		Resid phase (deg)		110.7	+/- 2.6

ph/seg (deg) 40.6 6.3 Amplitude 0.652 +/- 0.015 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 33.5 11.0 Search (4096X32) 0.643 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 21.2 3.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 25.0 6.5 Inc. seg. avg. 0.841 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 88.0 el 63.0 pa -64.4 f: az 50.3 el 68.8 pa -114.7 u,v (fr/asec) -757.876 3157.157 ion window (TEC) 0.00 0.00

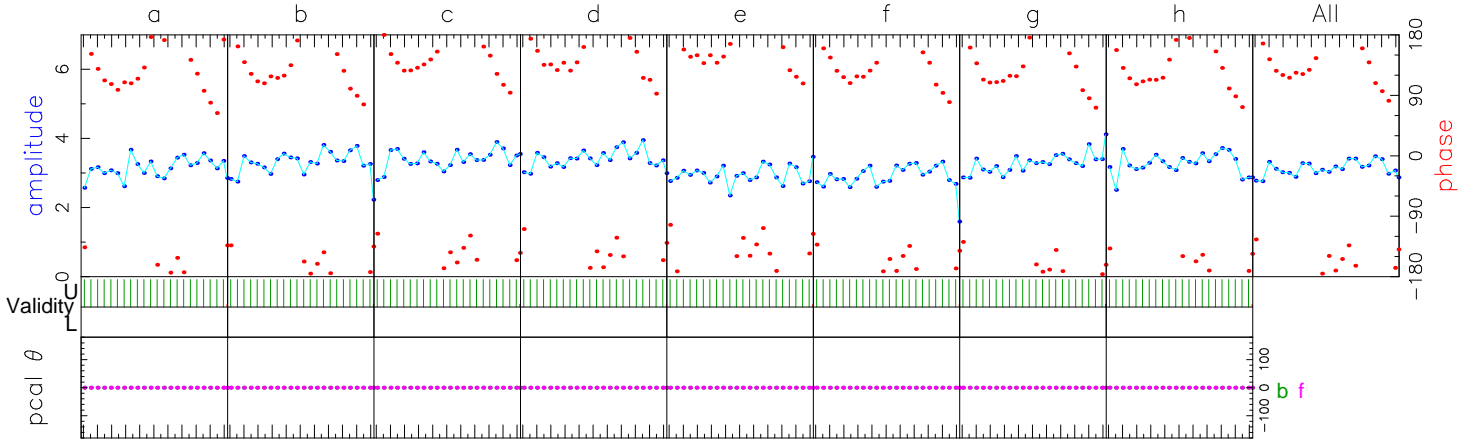


Fringe quality 5

SNR 156.1
Int time 599.437
Amp 2.332
Phase 154.2
PFD 0.0e+00
Delays (us)
SBD -0.000449
MBD -0.000491
Fringe rate (Hz)
-0.001816
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232118
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

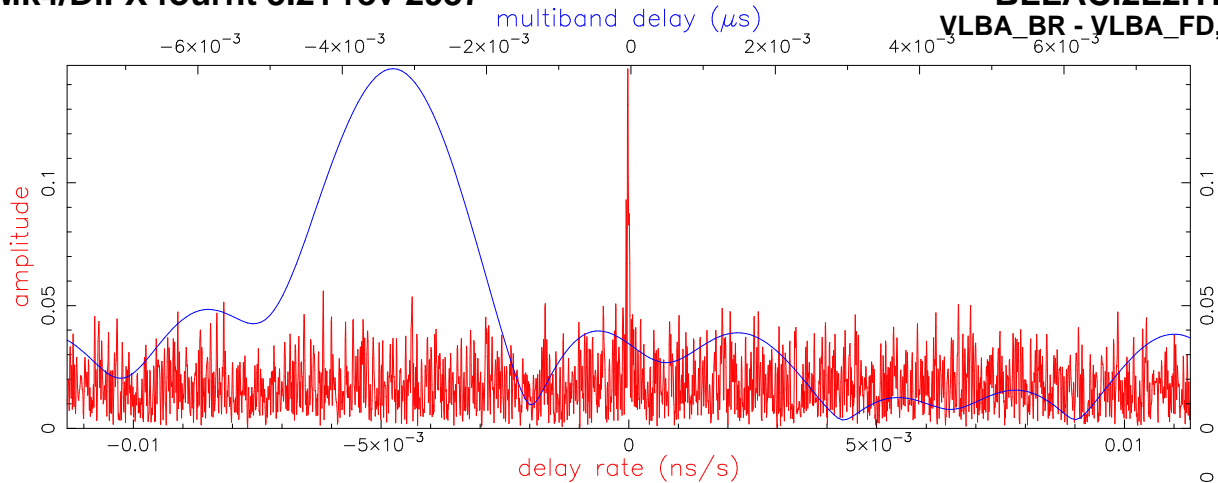


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	139.1	145.9	163.4	165.9	176.8	152.0	145.9	145.6	Phase	154.2
	2.3	2.5	2.5	2.6	2.1	2.2	2.4	2.4	Ampl.	2.4
	257.0	257.1	257.0	256.8	256.7	256.8	256.8	256.9	Sbd box	256.9
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
f	0	0	0	0	0	0	0	0	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	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	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-8.62283728924E+02		Apriori delay (usec)		-8.62283237474E+02		Resid mbdelay (usec)		-4.91450E-04	+/- 7.0E-06
Sband delay (usec)	-8.62283686724E+02		Apriori clock (usec)		-2.1702612E+01		Resid sbdelay (usec)		-4.49250E-04	+/- 5.5E-05
Phase delay (usec)	-8.62283232503E+02		Apriori clockrate (us/s)		-4.0430615E-07		Resid phdelay (usec)		4.97125E-06	+/- 2.4E-08
Delay rate (us/s)	1.07503675289E-01		Apriori rate (us/s)		1.07503696373E-01		Resid rate (us/s)		-2.10838E-08	+/- 6.8E-11
Total phase (deg)	126.8		Apriori accel (us/s/s)		2.23452714986E-05		Resid phase (deg)		154.2	+/- 0.7

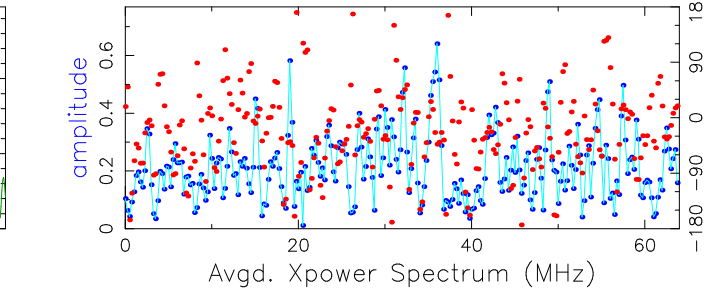
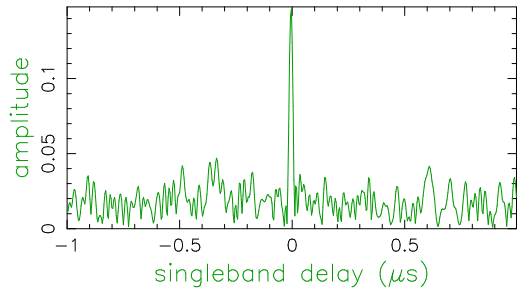
ph/seg (deg) 43.1 1.8 Theor. Amplitude 2.332 +/- 0.015 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 35.6 3.1 Search (4096X32) 2.317 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 14.0 1.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 6.8 1.8 Inc. seg. avg. 3.137 Sample rate (MSamp/s): 128 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 88.0 el 63.0 pa -64.4 f: az 50.3 el 68.8 pa -114.7 u,v (fr/asec) -757.876 3157.157 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/bf..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/bf.W.146.2L2HTN simultaneous interpolator

Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2L2HTN, No0100, bf
VLBA_BR - VLBA_FD, fgroup W, pol LR

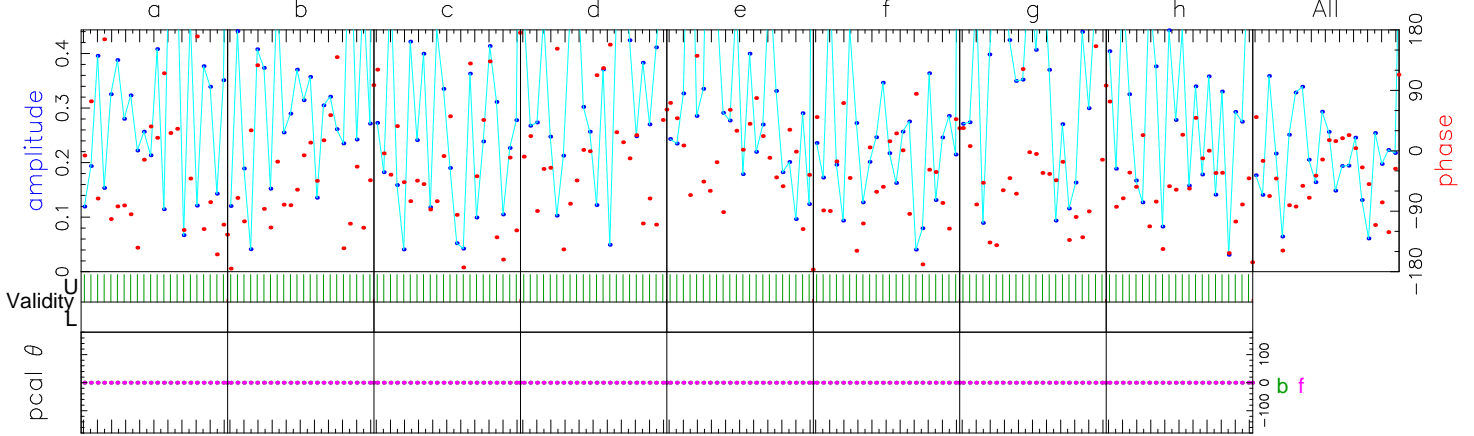


Fringe quality 9
SNR 9.9
Int time 599.437
Amp 0.148
Phase -40.9
PFD 3.6e-14
Delays (us)
SBD -0.005129
MBD -0.003322
Fringe rate (Hz) -0.001772
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232124
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

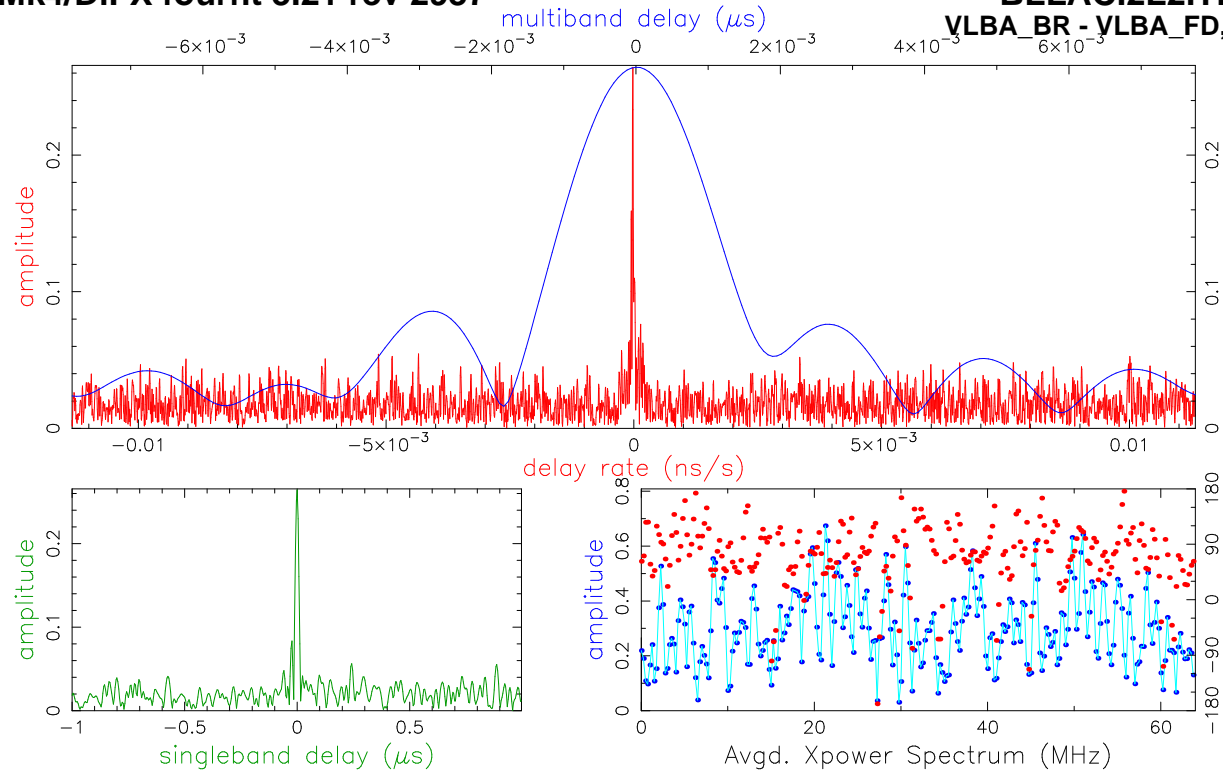


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-52.1	-63.7	-48.1	-17.3	-16.7	-45.0	-55.4	-45.2	Phase	-40.9
	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	Ampl.	0.1
	494.4	257.2	162.5	255.8	254.7	255.0	256.1	255.5	Sbd box	255.7
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
f	0	0	0	0	0	0	0	0	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	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	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-8.62286559455E+02	Apriori delay (usec)	-8.62283237474E+02	Resid mbdelay (usec)	-3.32198E-03	+/-	1.1E-04
Sband delay (usec)	-8.62288366224E+02	Apriori clock (usec)	-2.1702612E+01	Resid sbdelay (usec)	-5.12875E-03	+/-	8.7E-04
Phase delay (usec)	-8.62283238794E+02	Apriori clockrate (us/s)	-4.0430615E-07	Resid phdelay (usec)	-1.32010E-06	+/-	3.7E-07
Delay rate (us/s)	1.07503675805E-01	Apriori rate (us/s)	1.07503696373E-01	Resid rate (us/s)	-2.05680E-08	+/-	1.1E-09
Total phase (deg)	-68.3	Apriori accel (us/s/s)	2.23452714986E-05	Resid phase (deg)	-40.9	+/-	11.6

ph/seg (deg)	51.1	Theor.	27.8	Amplitude	0.148 +/- 0.015	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	69.5		48.5	Search (4096X32)	0.144	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	18.6		16.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	26.9		28.6	Inc. seg. avg.	0.191	Sample rate(MISamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.147	Data rate(Mb/s):	2048	ion window (TEC)	0.00 0.00	

b: az 88.0 el 63.0 pa -64.4 f: az 50.3 el 68.8 pa -114.7 u,v (fr/asec) -757.876 3157.157 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/bf..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/bf.W.171.2L2HTN

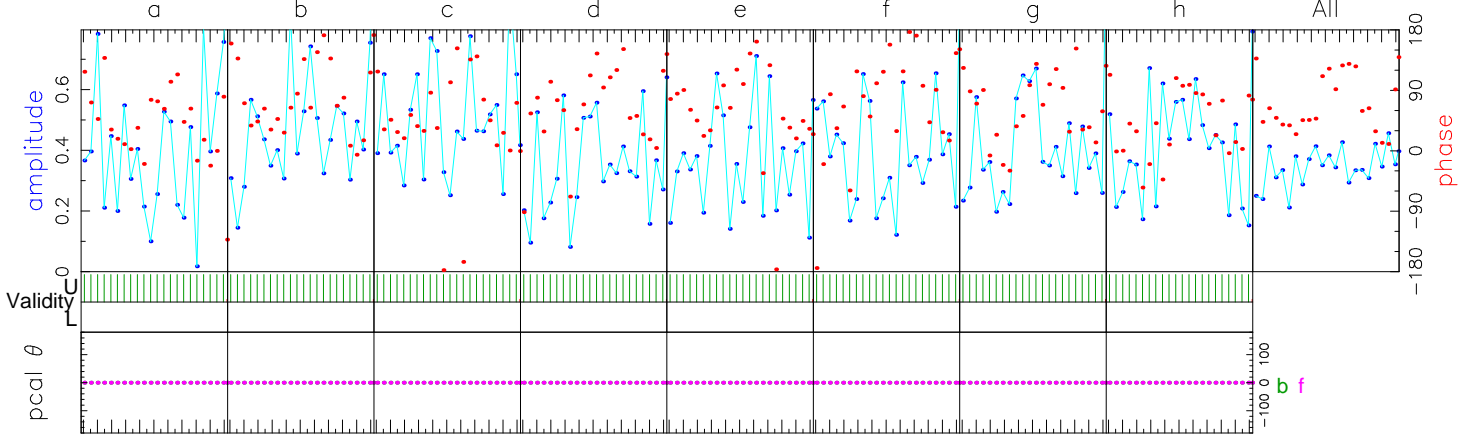


Fringe quality 9

SNR 17.8
Int time 599.437
Amp 0.266
Phase 66.3
PFD 0.0e+00
Delays (us)
SBD -0.000913
MBD -0.000005
Fringe rate (Hz)
-0.001704
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232131
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

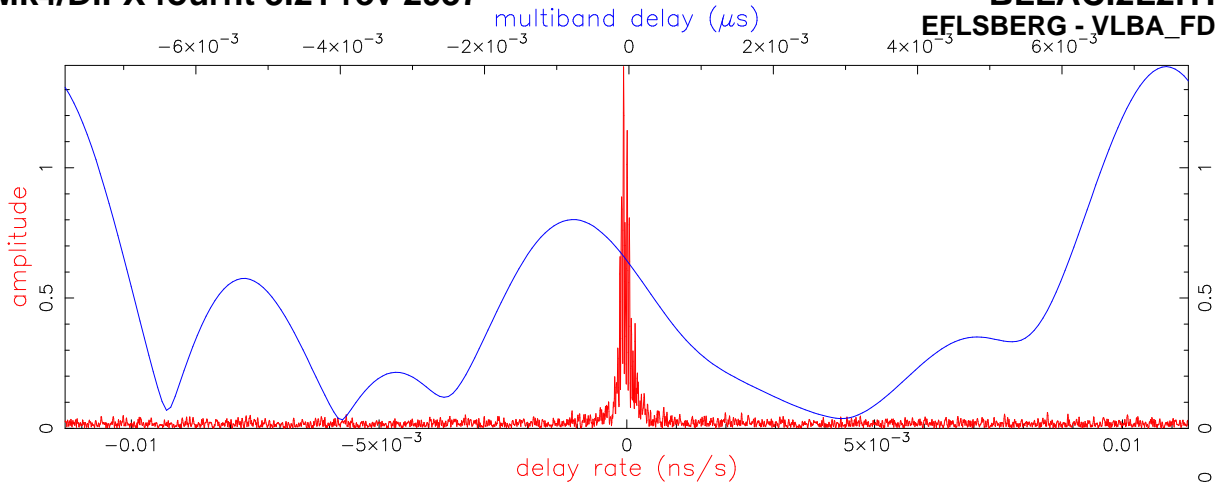
Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0		
b	0	0	0	0	0	0	0	0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
b:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:f	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	
f	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	-8.62283242674E+02				-8.62283237474E+02				Resid mbdelay (usec)	-5.19956E-06 +/- 6.1E-05
Sband delay (usec)	-8.62284150974E+02				-2.1702612E+01				Resid sbdelay (usec)	-9.13500E-04 +/- 4.8E-04
Phase delay (usec)	-8.62283235335E+02				-4.0430615E-07				Resid phdelay (usec)	2.13935E-06 +/- 2.1E-07
Delay rate (us/s)	1.07503676590E-01				1.07503696373E-01				Resid rate (us/s)	-1.97829E-08 +/- 6.0E-10
Total phase (deg)			39.0		2.23452714986E-05				Resid phase (deg)	66.3 +/- 6.4
ph/seg (deg)	40.4	15.4			0.266 +/- 0.015				PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	37.7	27.0			0.258				PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	16.2	9.1			0.000				Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%)	14.0	15.9			0.332				Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
					0.269				Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

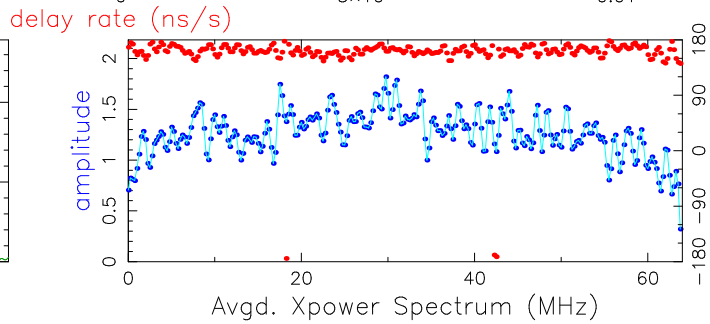
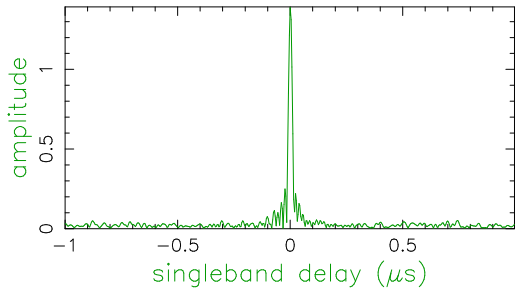
b: az 88.0 el 63.0 pa -64.4 f: az 50.3 el 68.8 pa -114.7 u,v (fr/asec) -757.876 3157.157 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/bf..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/bf.W.191.2L2HTN



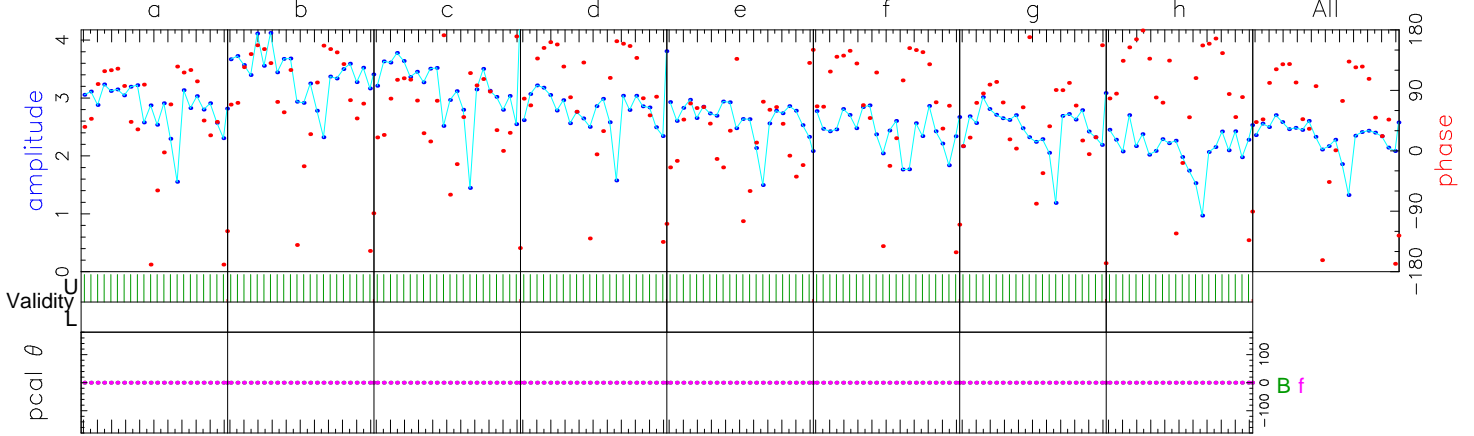
Fringe quality 2

SNR 93.2
Int time 599.465
Amp 1.393
Phase 85.2
PFD 0.0e+00
Delays (us)
SBD 0.000770
MBD 0.007463
Fringe rate (Hz)
-0.005547
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232158
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	81.5	110.6	63.5	116.0	22.8	106.1	54.8	123.2	Phase	85.2
	1.7	2.1	1.9	1.6	1.6	1.4	1.5	1.2	Ampl.	1.6
	257.6	257.5	257.4	257.7	257.8	257.6	258.0	257.8	Sbd box	257.2
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
f	0	0	0	0	0	0	0	0	PC freqs	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:f	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	
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-9.04301468460E+03	Apriori delay (usec)	-9.04302214740E+03	Resid mbdelay (usec)	7.46281E-03	+/-	1.2E-05
Sband delay (usec)	-9.04302137765E+03	Apriori clock (usec)	-4.9000710E+01	Resid sbdelay (usec)	7.69750E-04	+/-	9.2E-05
Phase delay (usec)	-9.04302214466E+03	Apriori clockrate (us/s)	-4.2116159E-08	Resid phdelay (usec)	2.74899E-06	+/-	4.0E-08
Delay rate (us/s)	-1.07493185331E+00	Apriori rate (us/s)	-1.07493178892E+00	Resid rate (us/s)	-6.43930E-08	+/-	1.1E-10
Total phase (deg)	-194.6	Apriori accel (us/s/s)	6.77771561766E-05	Resid phase (deg)	85.2	+/-	1.2

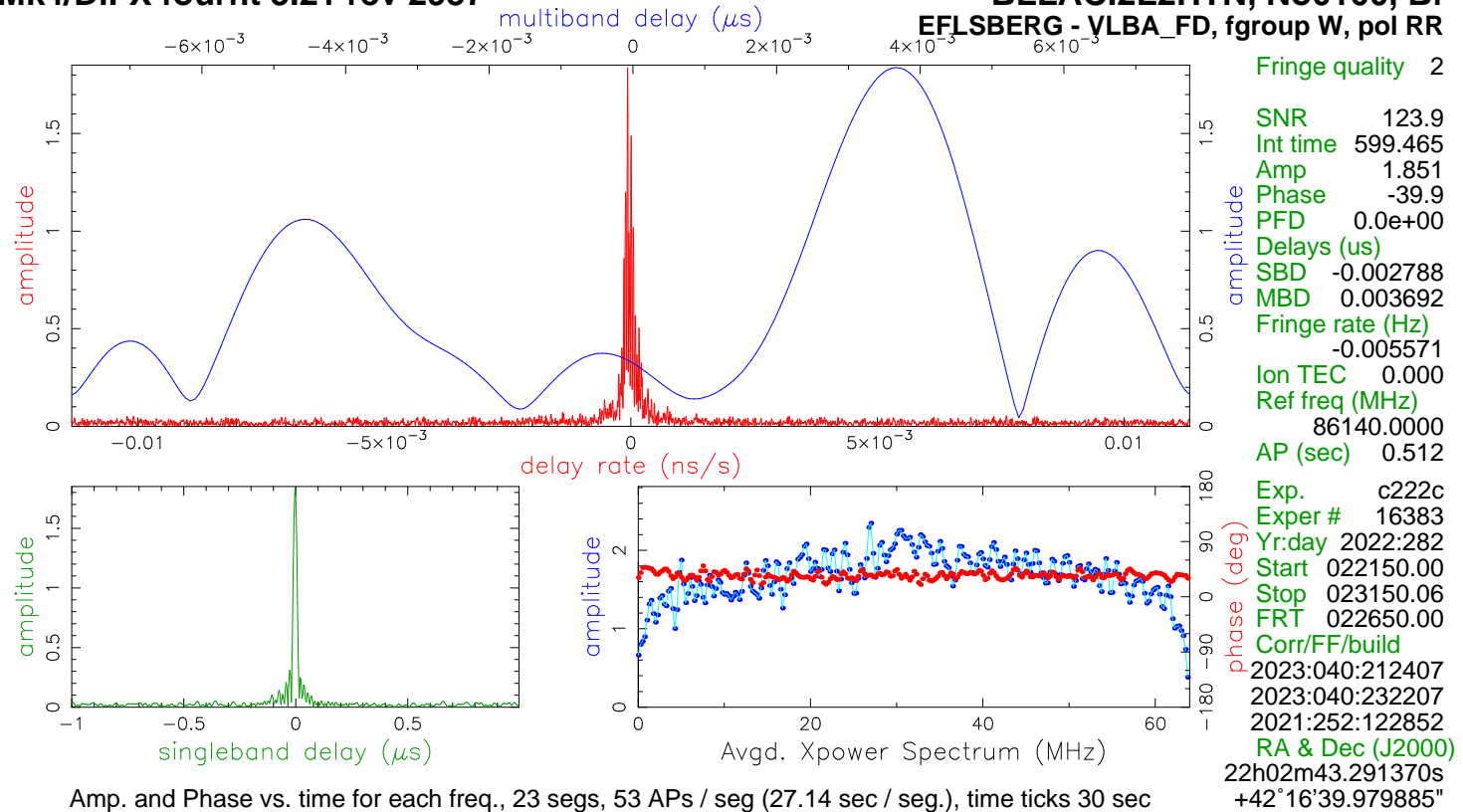
ph/seg (deg)	58.8	RMS	2.9	Theor.	1.350	Amplitude	1.393 +/- 0.015	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	69.5	Search (4096X32)	1.350	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	38.2	Inc. seg. avg.	2.314	Inc. frq. avg.	1.633	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	25.7	Inc. frq. avg.	1.633	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	dr window (ns/s)	-0.011	0.011
										ion window (TEC)	0.00	0.00

B: az 299.4 el 32.1 pa 48.7 f: az 50.3 el 68.8 pa -114.7 u,v (fr/asec) 8555.800 6393.507 simultaneous interpolator

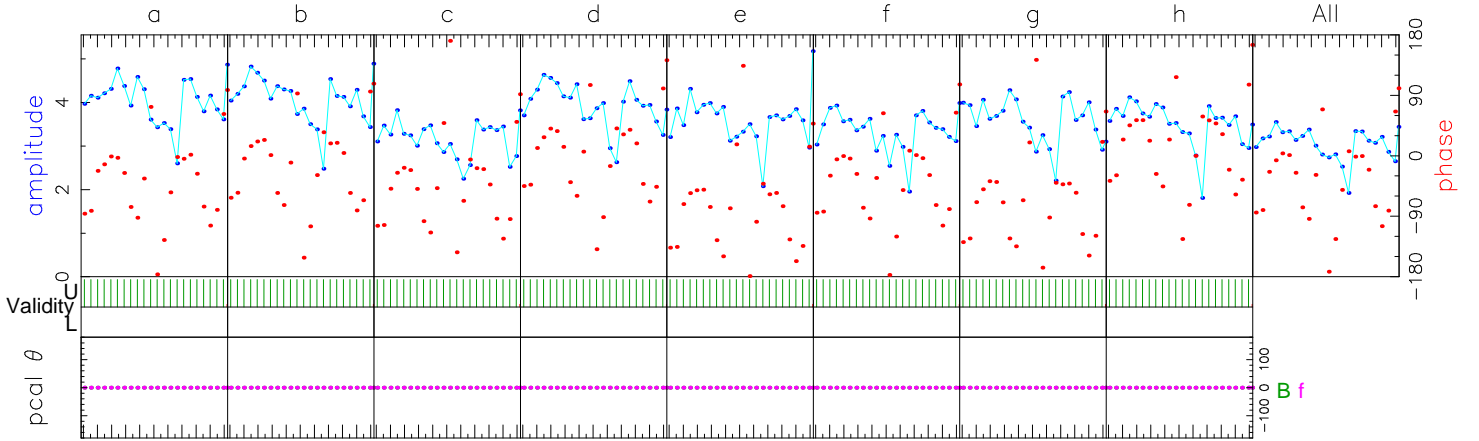
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/Bf..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/Bf.W.235.2L2HTN

Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2L2HTN, No0100, Bf
EFLSBERG - VLBA_FD, fgroup W, pol RR



Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

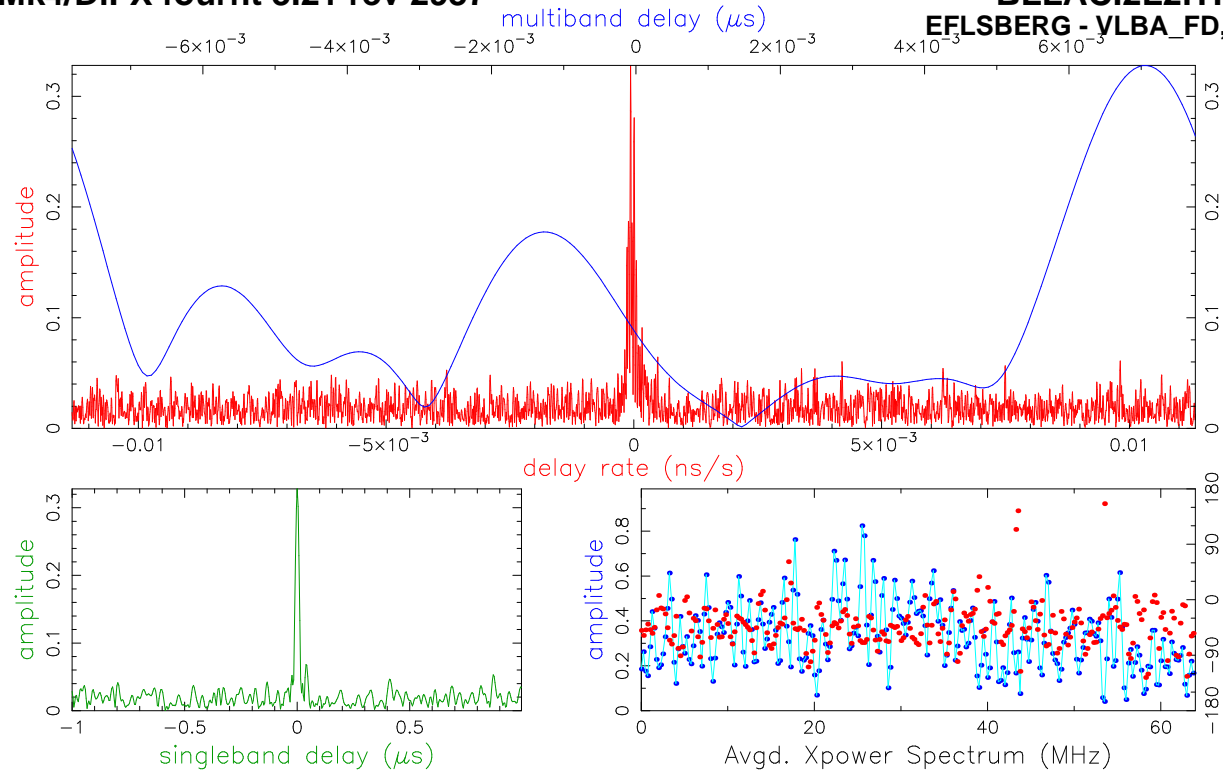


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-41.1	-18.2	-59.6	-3.5	-92.7	-40.4	-82.5	10.2	Phase	-39.9
	2.5	2.4	1.9	2.3	2.1	2.1	2.2	2.1	Ampl.	2.2
	256.3	256.4	256.9	256.6	256.6	256.7	257.4	257.0	Sbd box	256.3
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
f	0	0	0	0	0	0	0	0	PC freqs	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:f	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	
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-9.04301845507E+03		Apriori delay (usec)		-9.04302214740E+03		Resid mbdelay (usec)		3.69234E-03	+/- 8.8E-06
Sband delay (usec)	-9.04302493515E+03		Apriori clock (usec)		-4.9000710E+01		Resid sbdelay (usec)		-2.78775E-03	+/- 7.0E-05
Phase delay (usec)	-9.04302214869E+03		Apriori clockrate (us/s)		-4.2116159E-08		Resid phdelay (usec)		-1.28530E-06	+/- 3.0E-08
Delay rate (us/s)	-1.07493185359E+00		Apriori rate (us/s)		-1.07493178892E+00		Resid rate (us/s)		-6.46750E-08	+/- 8.6E-11
Total phase (deg)			Apriori accel (us/s/s)		6.77771561766E-05		Resid phase (deg)		-39.9	+/- 0.9

	RMS	Theor.	Amplitude	1.851 +/- 0.015	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	58.5	2.2	Search (4096X32)	1.772	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	66.8	3.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	39.4	1.3	Inc. seg. avg.	3.032	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	21.4	2.3	Inc. frq. avg.	2.200	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

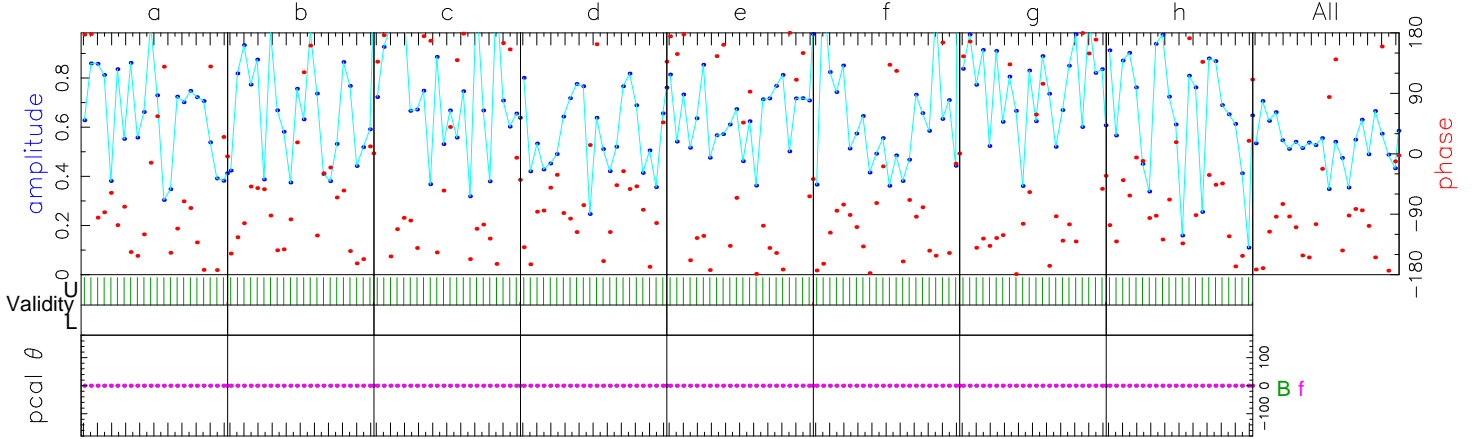
B: az 299.4 el 32.1 pa 48.7 f: az 50.3 el 68.8 pa -114.7 u,v (fr/asec) 8555.800 6393.507 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/Bf..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/Bf.W.263.2L2HTN



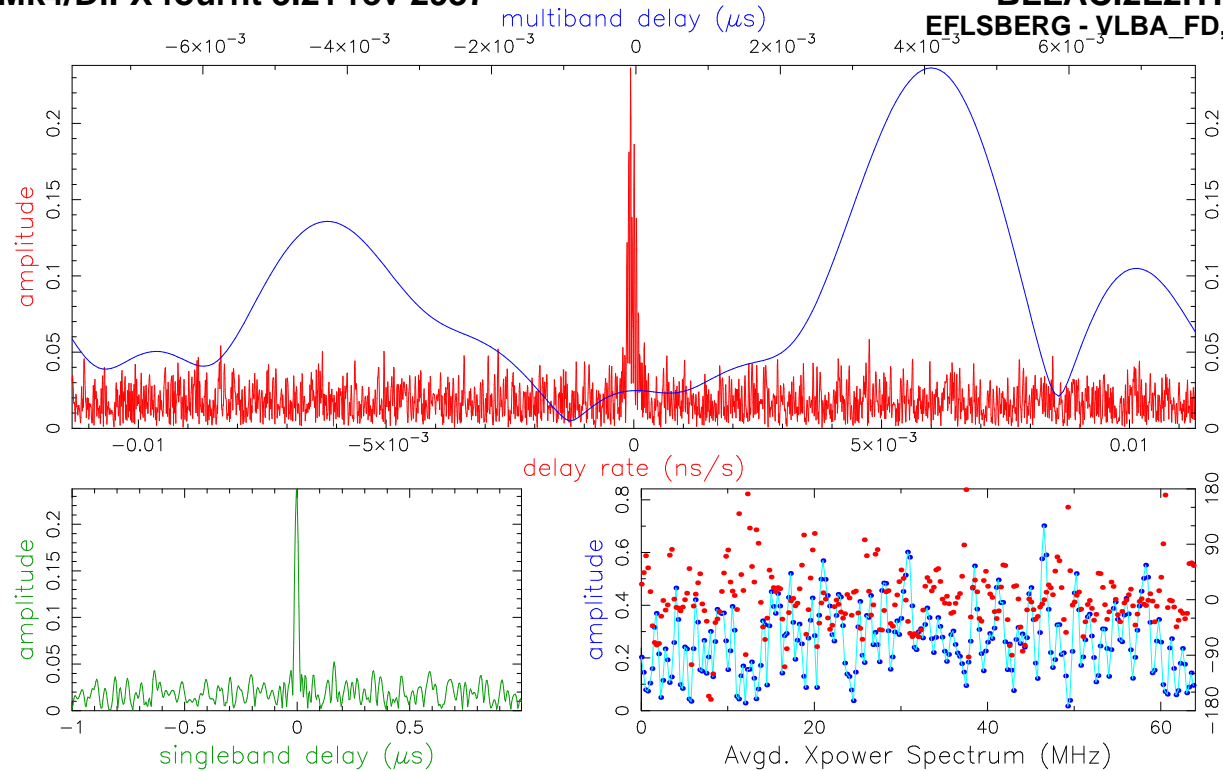
Fringe quality 8
SNR 22.0
Int time 599.465
Amp 0.328
Phase -124.3
PFD 0.0e+00
Delays (us)
SBD 0.000120
MBD 0.007061
Fringe rate (Hz)
-0.005585
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232215
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-118.9	-99.0	-148.5	-87.0	-166.3	-122.5	-154.7	-80.6	Phase	-124.3
	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.4	Ampl.	0.4
	257.8	256.9	257.3	257.6	256.8	257.8	257.9	259.0	Sbd box	257.0
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
f	0	0	0	0	0	0	0	0	PC freqs	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:f	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	
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-9.04301508619E+03		Apriori delay (usec)		-9.04302214740E+03		Resid mbdelay (usec)		7.06121E-03	+/- 4.9E-05
Sband delay (usec)	-9.04302202790E+03		Apriori clock (usec)		-4.9000710E+01		Resid sbdelay (usec)		1.19500E-04	+/- 3.9E-04
Phase delay (usec)	-9.04302215141E+03		Apriori clockrate (us/s)		-4.2116159E-08		Resid phdelay (usec)		-4.00932E-06	+/- 1.7E-07
Delay rate (us/s)	-1.07493185376E+00		Apriori rate (us/s)		-1.07493178892E+00		Resid rate (us/s)		-6.48398E-08	+/- 4.9E-10
Total phase (deg)			Apriori accel (us/s/s)		6.77771561766E-05		Resid phase (deg)		-124.3	+/- 5.2

ph/seg (deg) 60.8 12.5 Amplitude 0.328 +/- 0.015 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 69.1 21.8 Search (4096X32) 0.317 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 34.7 7.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 19.8 12.9 Inc. seg. avg. 0.525 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 B: az 299.4 el 32.1 pa 48.7 f: az 50.3 el 68.8 pa -114.7 u,v (fr/asec) 8555.800 6393.507 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/Bf..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/Bf.W.288.2L2HTN simultaneous interpolator

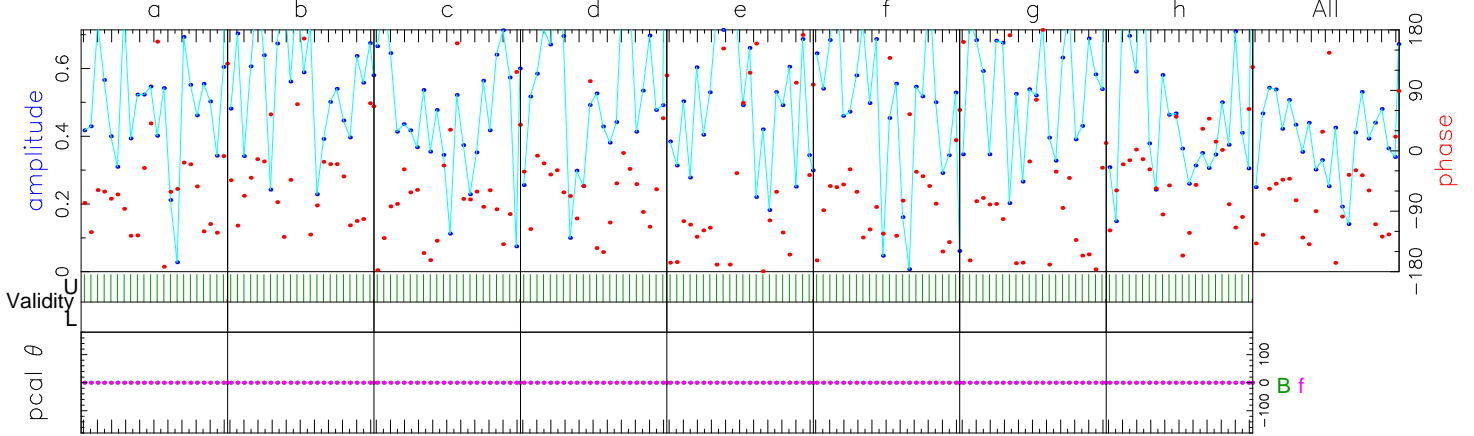


Fringe quality 8

SNR 15.9
Int time 599.465
Amp 0.238
Phase -80.4
PFD 0.0e+00
Delays (us)
SBD -0.002803
MBD 0.004107
Fringe rate (Hz) -0.005637
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

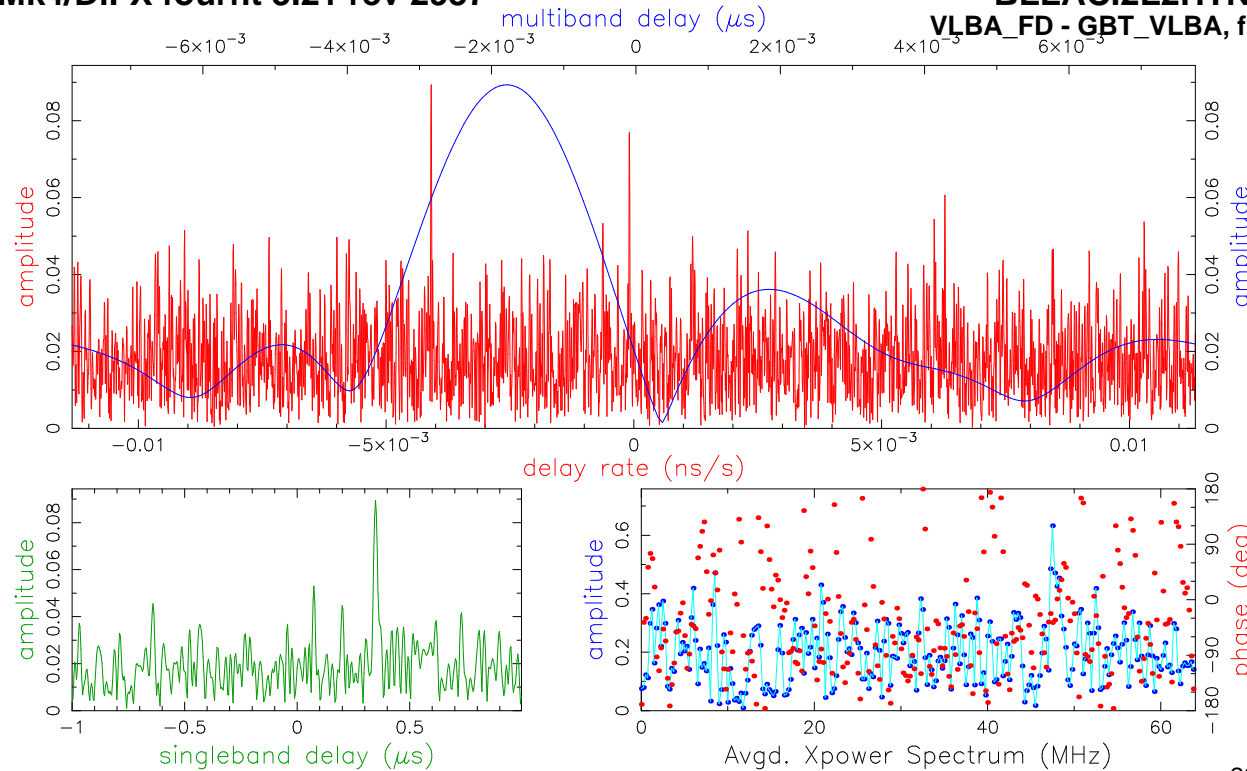
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232224
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-74.2	-57.8	-101.7	-50.9	-152.5	-77.3	-114.5	-33.3	Phase	-80.4
	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	Ampl.	0.3
	256.2	256.2	256.8	255.9	256.9	256.8	258.0	256.4	Sbd box	256.3
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
f	0	0	0	0	0	0	0	0	PC freqs	
B:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:f	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	
f	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-9.04301803997E+03		Apriori delay (usec)		-9.04302214740E+03		Resid mbdelay (usec)		4.10743E-03	+/- 6.8E-05
Sband delay (usec)	-9.04302495065E+03		Apriori clock (usec)		-4.9000710E+01		Resid sbdelay (usec)		-2.80325E-03	+/- 5.4E-04
Phase delay (usec)	-9.04302215000E+03		Apriori clockrate (us/s)		-4.2116159E-08		Resid phdelay (usec)		-2.59210E-06	+/- 2.3E-07
Delay rate (us/s)	-1.07493185436E+00		Apriori rate (us/s)		-1.07493178892E+00		Resid rate (us/s)		-6.54438E-08	+/- 6.7E-10
Total phase (deg)			Apriori accel (us/s/s)		6.77771561766E-05		Resid phase (deg)		-80.4	+/- 7.2

ph/seg (deg) 59.5 17.2 Search (4096X32) 0.231 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 78.8 30.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 41.7 10.2 Inc. seg. avg. 0.373 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 22.7 17.7 Inc. frq. avg. 0.281 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 299.4 el 32.1 pa 48.7 f: az 50.3 el 68.8 pa -114.7 u,v (fr/asec) 8555.800 6393.507 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/Bf..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/Bf.W.299.2L2HTN

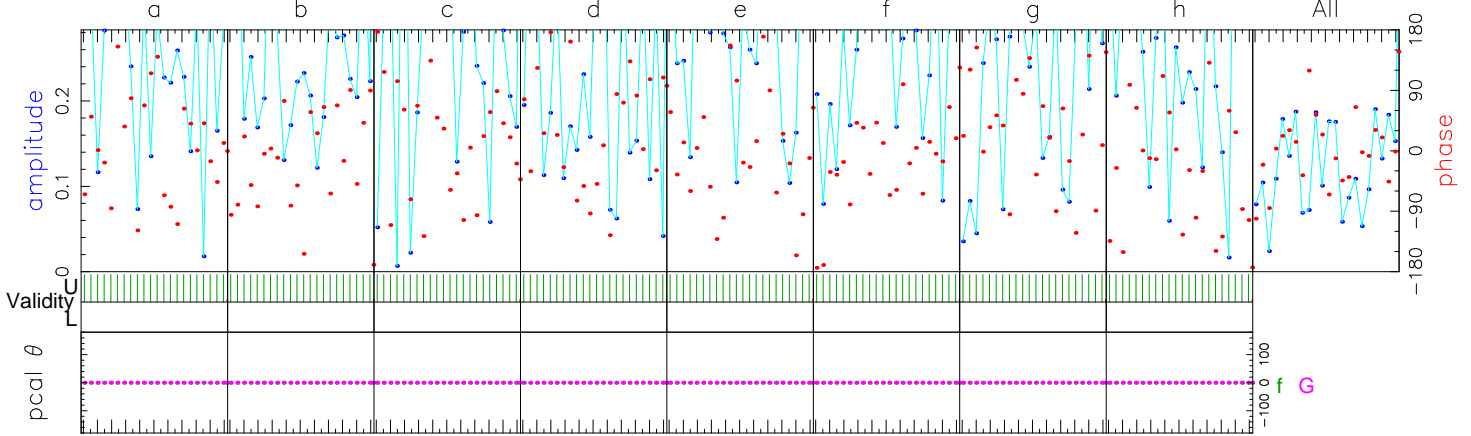


Fringe quality 0

SNR 6.0
Int time 599.468
Amp 0.094
Phase 2.3
PFD 6.7e-01
Delays (us)
SBD 0.347962
MBD -0.001781
Fringe rate (Hz)
-0.353086
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:045:104807
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

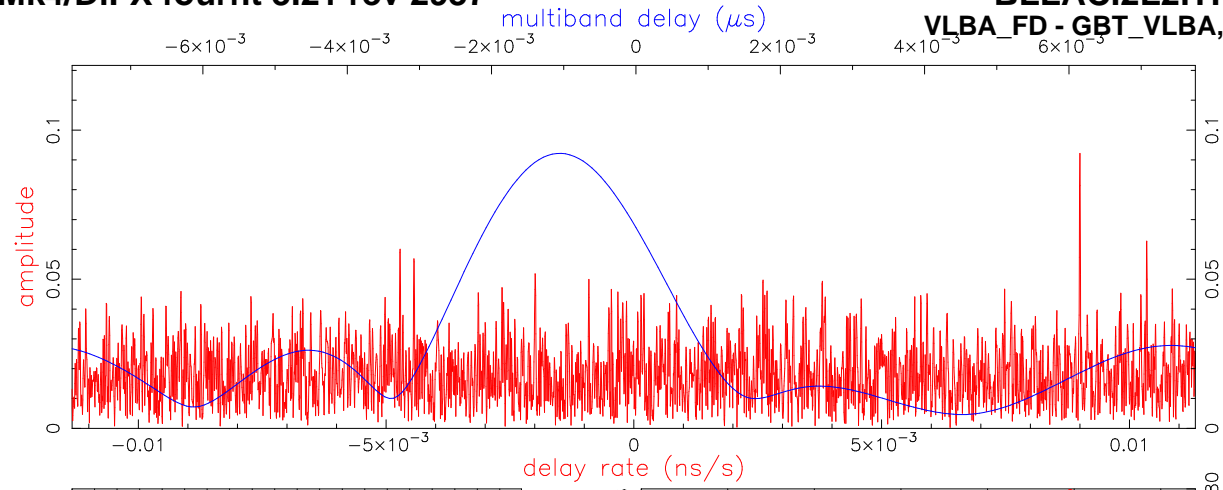
Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	3.3	-18.9	35.6	11.5	-19.0	3.6	17.5	-32.6	Phase	2.3
	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.0	Ampl.	0.1
	139.4	204.7	442.1	143.0	213.3	345.2	207.7	444.8	Sbd box	346.1
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.18356074620E+03	Apriori delay (usec)	-1.18390271535E+03	Resid mbdelay (usec)	-1.78086E-03	+/-	1.8E-04
Sband delay (usec)	-1.18355475310E+03	Apriori clock (usec)	3.6474648E+01	Resid sbdelay (usec)	3.47962E-01	+/-	1.4E-03
Phase delay (usec)	-1.18390271527E+03	Apriori clockrate (us/s)	-5.4883839E-08	Resid phdelay (usec)	7.57050E-08	+/-	6.2E-07
Delay rate (us/s)	4.02149220027E-01	Apriori rate (us/s)	4.02153319011E-01	Resid rate (us/s)	-4.09898E-06	+/-	1.8E-09
Total phase (deg)	-321.6	Apriori accel (us/s/s)	-2.02193669208E-06	Resid phase (deg)	2.3	+/-	19.1

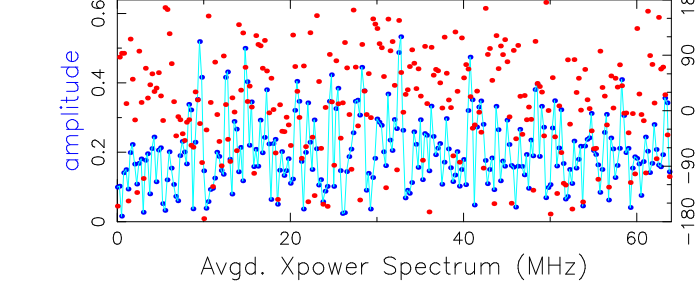
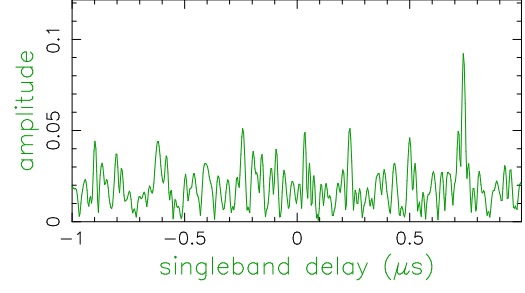
ph/seg (deg)	50.6	Theor.	45.9	Amplitude	0.094 +/- 0.016	PCal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	68.8	Search (4096X32)	0.086	PCal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	24.3	Inc. seg. avg.	0.097	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	46.5	Inc. frq. avg.	0.089	Sample rate (MSamp/s):	128	nlags: 256	t_cohere infinite	dr window (ns/s)	-0.011	0.011
f: az 50.3 el 68.8 pa -114.7	G: az 340.2 el 85.8 pa 161.3		u,v (fr/asec)		-3124.629 -809.877	ion window (TEC)	0.00	0.00	simultaneous interpolator	



Fringe quality 0

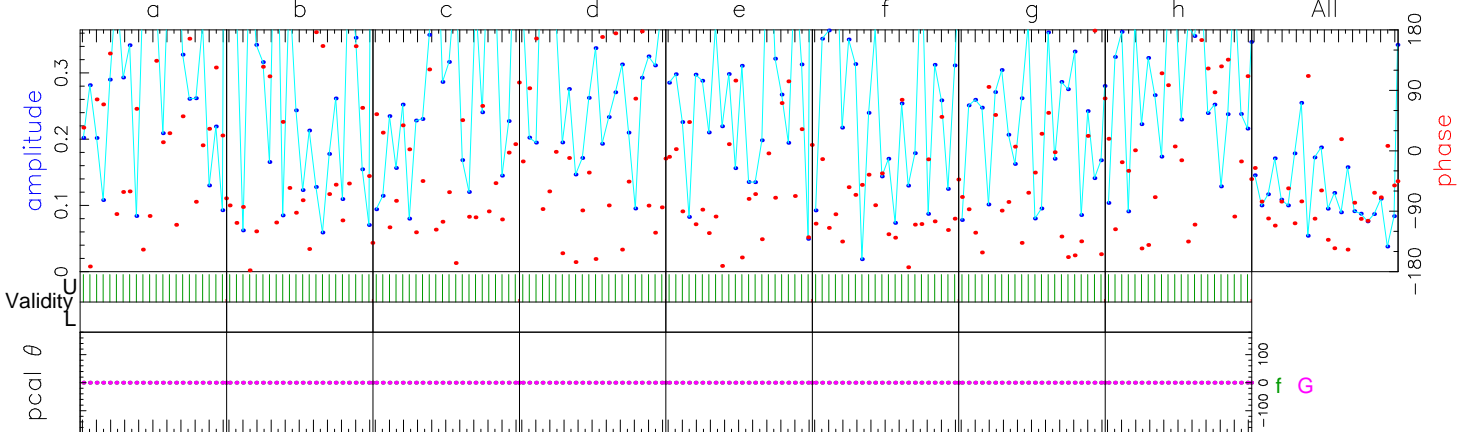
SNR 6.2
 Int time 599.468
 Amp 0.122
 Phase -85.0
 PFD 2.8e-01
 Delays (us)
 SBD 0.738905
 MBD -0.001070
 Fringe rate (Hz)
 0.776344
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c222c
 Exper # 16383
 Yr:day 2022:282
 Start 022150.00
 Stop 023150.06
 FRT 022650.00
 Corr/FF/build
 2023:040:212407
 2023:045:104816
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

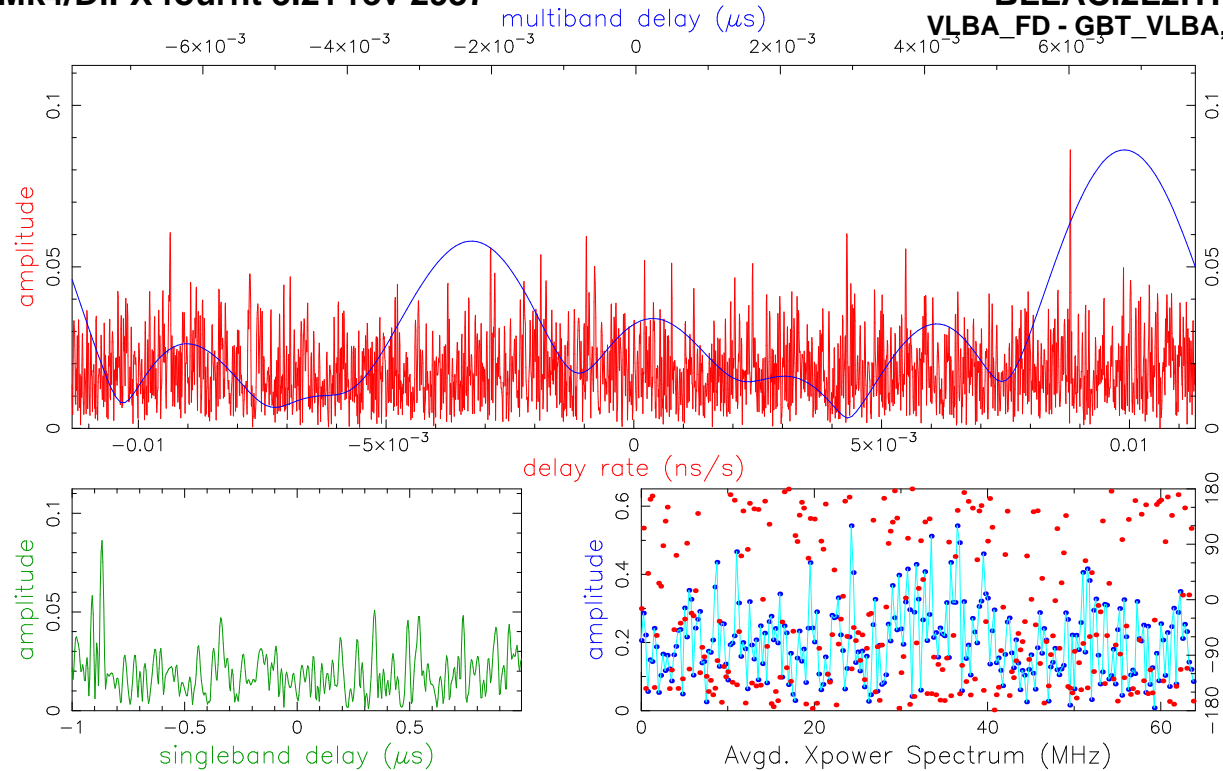


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-66.3	-108.0	-71.8	-90.9	-54.0	-84.5	-100.8	-100.8	Phase	-85.0
	0.0	0.2	0.1	0.2	0.1	0.2	0.1	0.0	Ampl.	0.1
	233.6	265.2	490.9	409.0	42.9	445.9	52.1	349.4	Sbd box	446.2
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:G	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	
G	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -1.18316941078E+03 Apriori delay (usec) -1.18390271535E+03 Resid mbdelay (usec) -1.07044E-03 +/- 1.8E-04
 Sband delay (usec) -1.18316381060E+03 Apriori clock (usec) 3.6474648E+01 Resid sbdelay (usec) 7.38905E-01 +/- 1.4E-03
 Phase delay (usec) -1.18390271809E+03 Apriori clockrate (us/s) -5.4883839E-08 Resid phdelay (usec) -2.74103E-06 +/- 6.0E-07
 Delay rate (us/s) 4.02162331593E-01 Apriori rate (us/s) 4.02153319011E-01 Resid rate (us/s) 9.01258E-06 +/- 1.7E-09
 Total phase (deg) -49.0 Apriori accel (us/s/s) -2.02193669208E-06 Resid phase (deg) -85.0 +/- 18.5

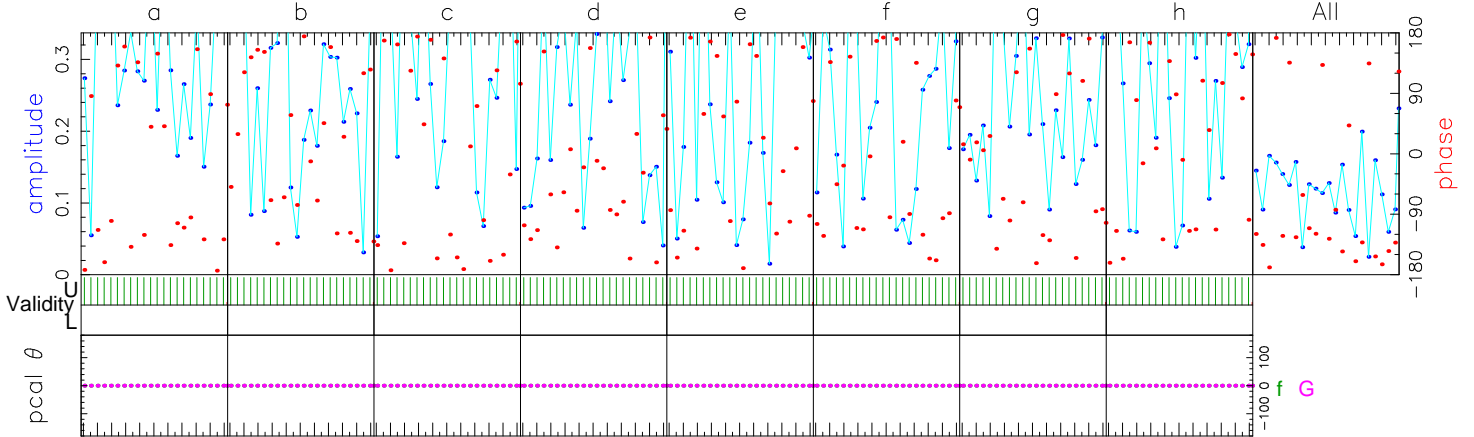
RMS Theor. Amplitude 0.122 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 54.3 44.4 Search (4096X32) 0.091 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 63.1 77.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 20.6 26.2 Inc. seg. avg. 0.122 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 49.4 45.7 Inc. frq. avg. 0.115 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

f: az 50.3 el 68.8 pa -114.7 G: az 340.2 el 85.8 pa 161.3 u,v (fr/asec) -3124.629 -809.877 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fG..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fG.W.354.2L2HTN



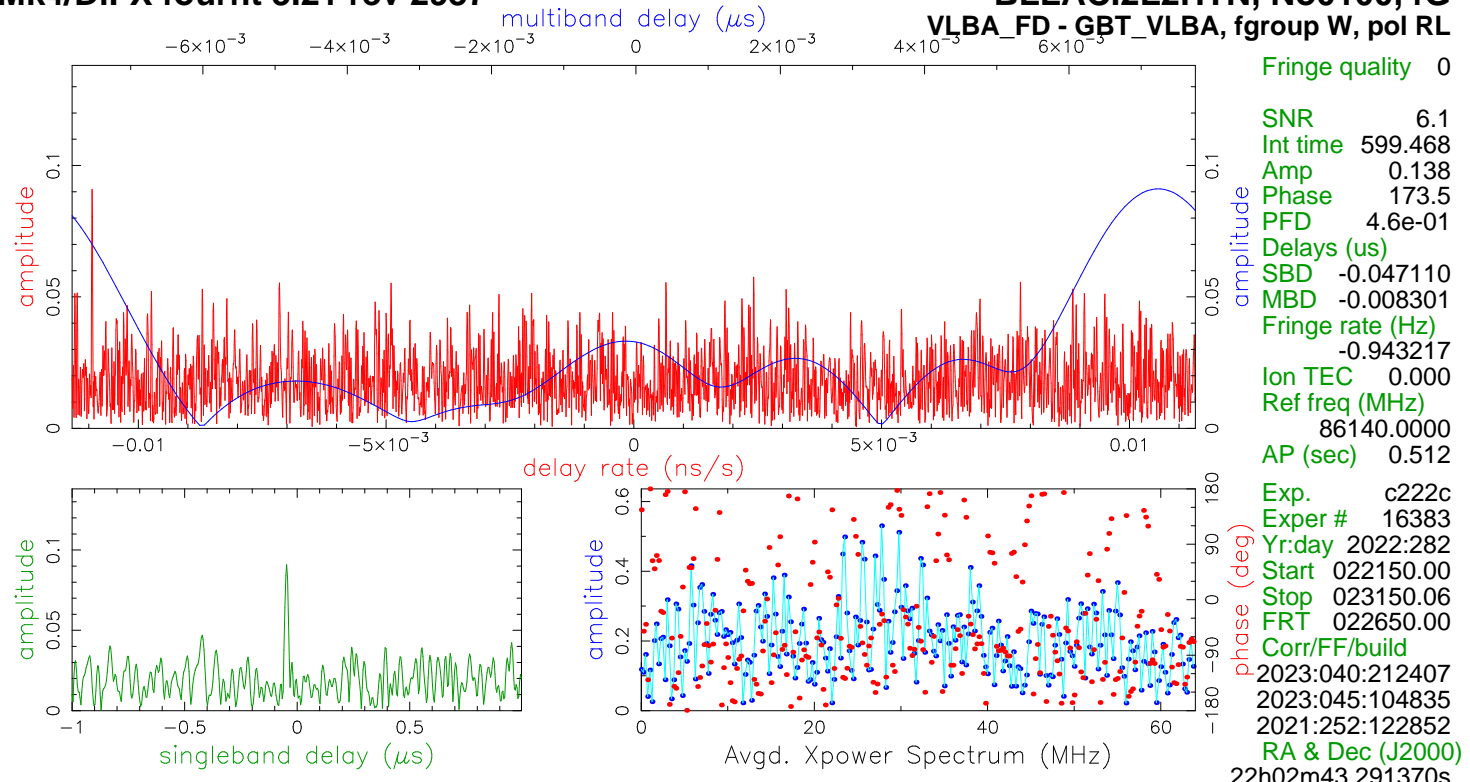
Fringe quality 0
SNR 5.8
Int time 599.468
Amp 0.112
Phase -145.2
PFD 9.7e-01
Delays (us)
SBD -0.867839
MBD 0.006743
Fringe rate (Hz) 0.759632
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:045:104825
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

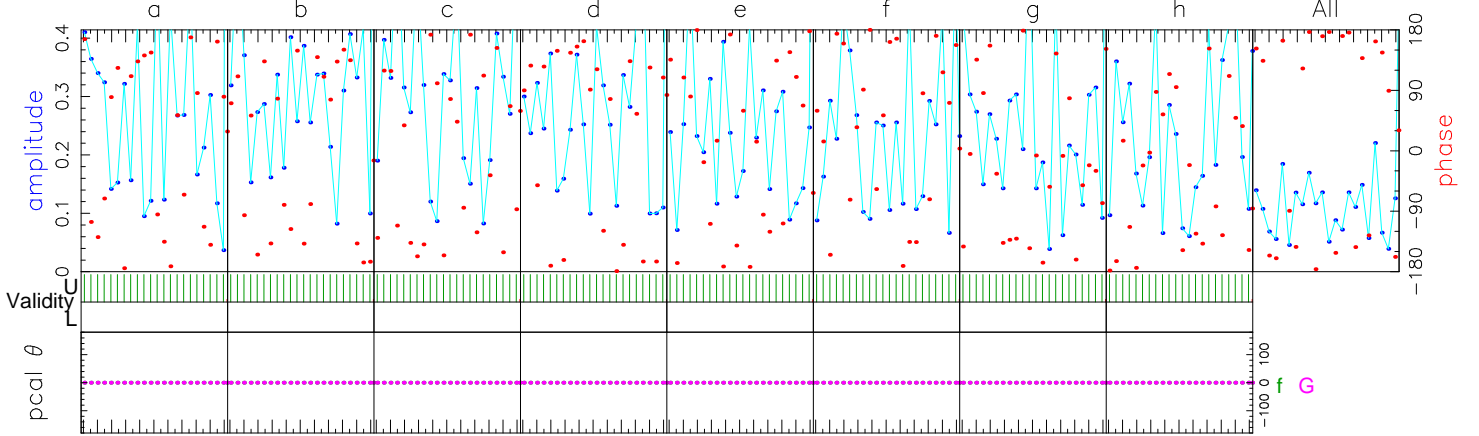


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-159.1	-104.7	-174.3	-78.2	-146.6	-145.8	-127.8	-159.3	Phase	-145.2
	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
	129.2	344.4	34.3	210.9	50.6	455.8	445.2	34.2	Sbd box	34.8
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.18477097248E+03		Apriori delay (usec)		-1.18390271535E+03		Resid mbdelay (usec)		6.74287E-03	+/- 1.9E-04
Sband delay (usec)	-1.18477055435E+03		Apriori clock (usec)		3.6474648E+01		Resid sbdelay (usec)		-8.67839E-01	+/- 1.5E-03
Phase delay (usec)	-1.18390272003E+03		Apriori clockrate (us/s)		-5.4883839E-08		Resid phdelay (usec)		-4.68377E-06	+/- 6.4E-07
Delay rate (us/s)	4.02162137589E-01		Apriori rate (us/s)		4.02153319011E-01		Resid rate (us/s)		8.81858E-06	+/- 1.8E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.02193669208E-06		Resid phase (deg)		-145.2	+/- 19.8

ph/seg (deg) 55.6 47.5 Search (4096X32) 0.084 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 61.5 82.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 35.8 28.0 Inc. seg. avg. 0.112 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.0 48.9 Inc. frq. avg. 0.114 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 50.3 el 68.8 pa -114.7 G: az 340.2 el 85.8 pa 161.3 u, v (fr/asec) -3124.629 -809.877 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fG..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fG.W.357.2L2HTN



Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-164.9	162.3	-166.3	150.5	170.6	170.9	-145.6	132.4	Phase	173.5
	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	Ampl.	0.1
	16.2	436.9	210.8	425.8	318.1	417.0	128.1	98.5	Sbd box	244.9
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:G	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	
G	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.18394226613E+03		Apriori delay (usec)	-1.18390271535E+03	Resid mbdelay (usec)	-8.30078E-03	+/-	1.8E-04		
Sband delay (usec)	-1.18394982510E+03		Apriori clock (usec)	3.6474648E+01	Resid sbdelay (usec)	-4.71097E-02	+/-	1.4E-03		
Phase delay (usec)	-1.18390270975E+03		Apriori clockrate (us/s)	-5.4883839E-08	Resid phdelay (usec)	5.59621E-06	+/-	6.1E-07		
Delay rate (us/s)	4.02142369201E-01		Apriori rate (us/s)	4.02153319011E-01	Resid rate (us/s)	-1.09498E-05	+/-	1.8E-09		
Total phase (deg)		-150.4	Apriori accel (us/s/s)	-2.02193669208E-06	Resid phase (deg)	173.5	+/-	18.8		

ph/seg (deg) 40.7 45.2 Amplitude 0.138 +/- 0.023 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

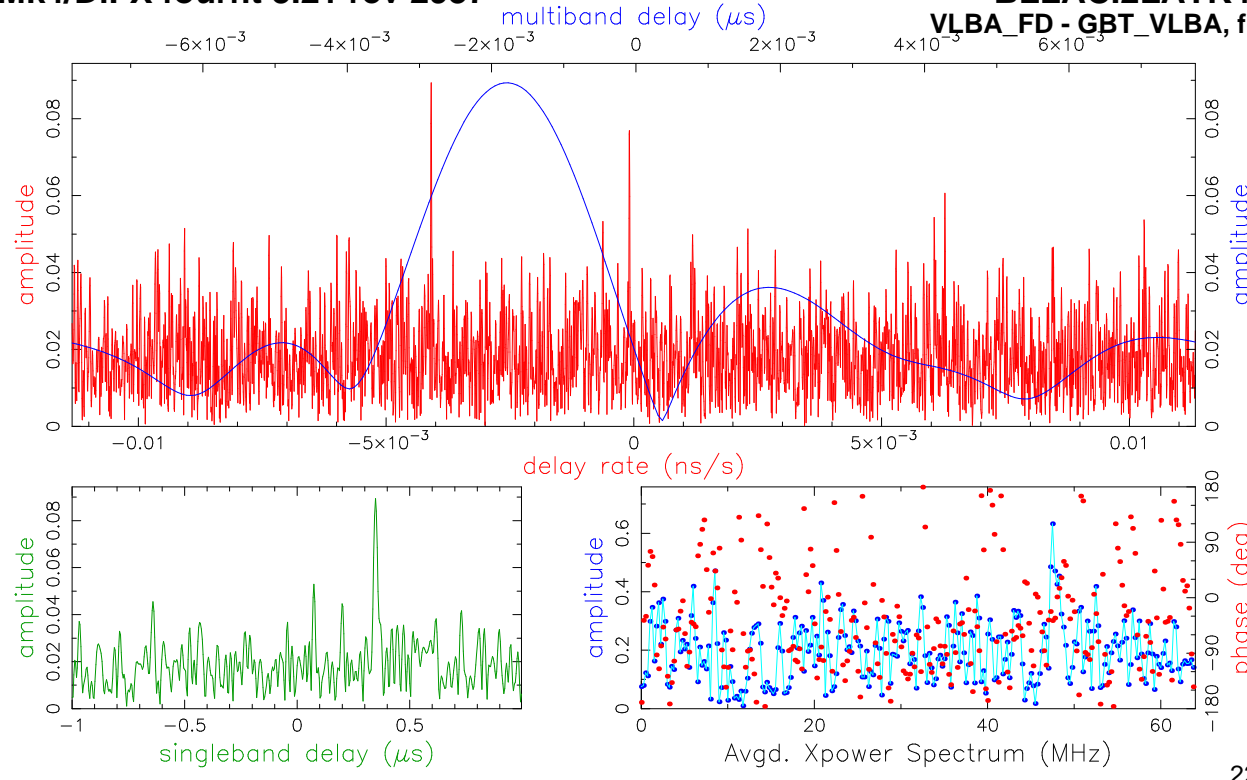
amp/seg (%) 61.5 78.8 Search (4096X32) 0.089 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 28.6 26.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 34.2 46.5 Inc. seg. avg. 0.128 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011

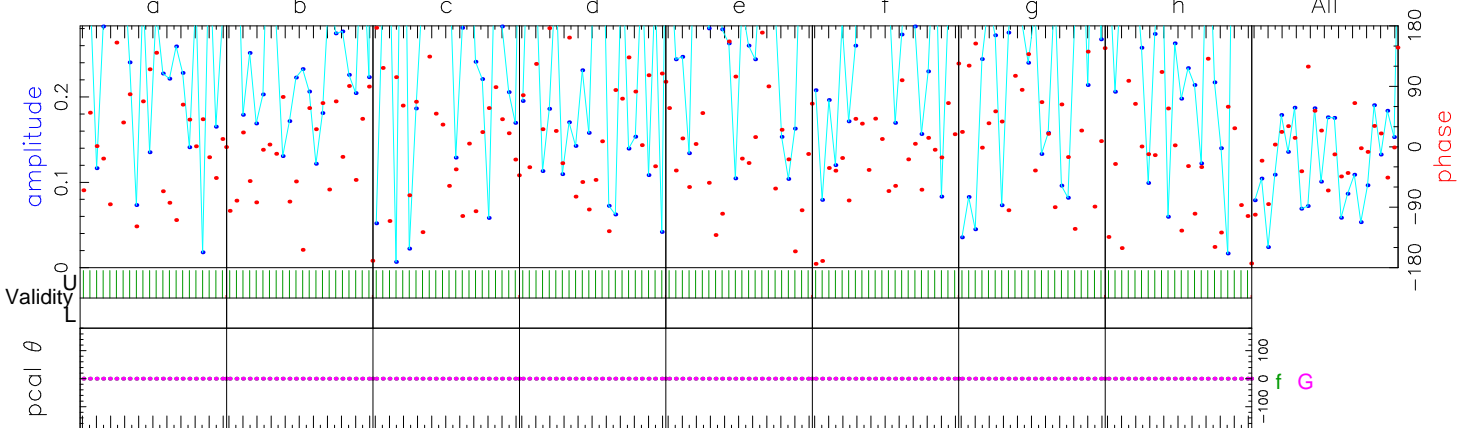
f: az 50.3 el 68.8 pa -114.7 G: az 340.2 el 85.8 pa 161.3 u,v (fr/asec) -3124.629 -809.877 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fG..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fG.W.360.2L2HTN simultaneous interpolator



Fringe quality 0
SNR 6.0
Int time 599.468
Amp 0.094
Phase 2.3
PFD 6.7e-01
Delays (us)
SBD 0.347962
MBD -0.001781
Fringe rate (Hz)
-0.353086
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:041:105329
2023:045:104851
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

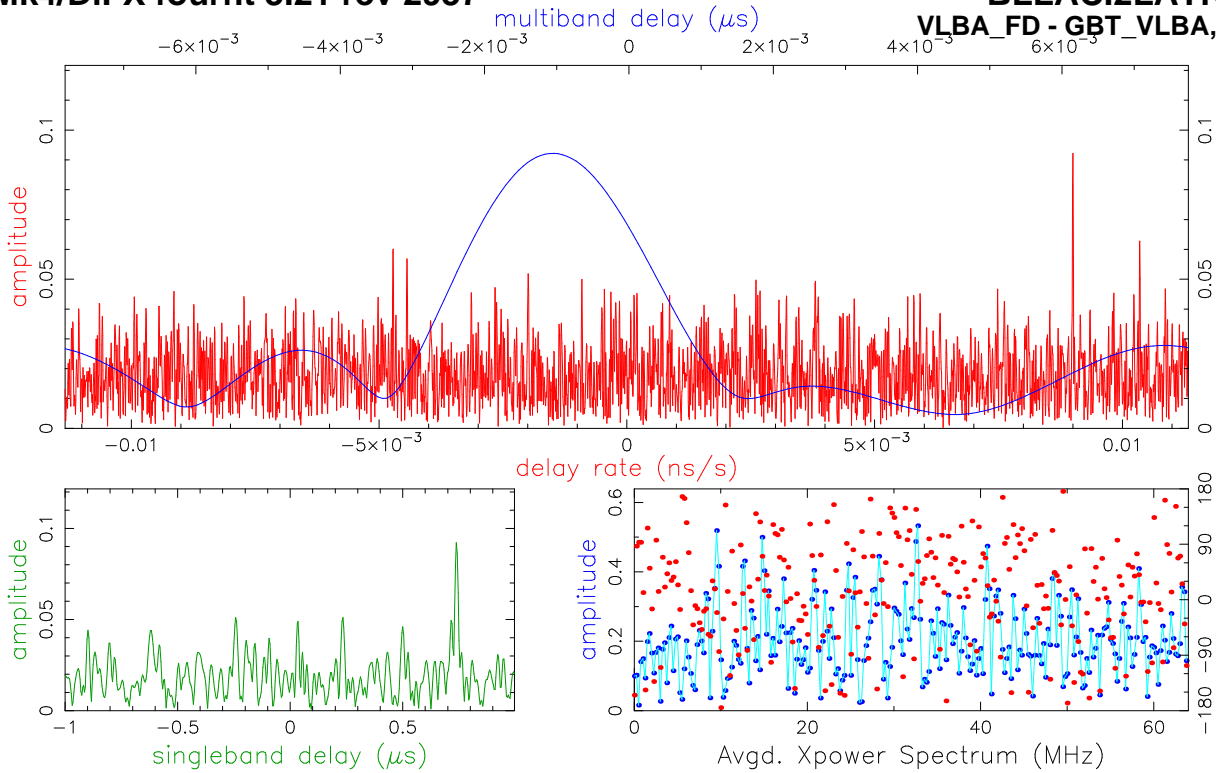


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	3.3	-18.9	35.6	11.5	-19.0	3.6	17.5	-32.6	Phase	2.3
	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.0	Ampl.	0.1
	139.4	204.7	442.1	143.0	213.3	345.2	207.7	444.8	Sbd box	346.1
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) -1.18356074620E+03 Apriori delay (usec) -1.18390271535E+03 Resid mbdelay (usec) -1.78086E-03 +/- 1.8E-04
 Sband delay (usec) -1.18355475310E+03 Apriori clock (usec) 3.6474648E+01 Resid sbdelay (usec) 3.47962E-01 +/- 1.4E-03
 Phase delay (usec) -1.18390271527E+03 Apriori clockrate (us/s) -5.4883839E-08 Resid phdelay (usec) 7.57050E-08 +/- 6.2E-07
 Delay rate (us/s) 4.02149220027E-01 Apriori rate (us/s) 4.02153319011E-01 Resid rate (us/s) -4.09898E-06 +/- 1.8E-09
 Total phase (deg) -321.6 Apriori accel (us/s/s) -2.02193669208E-06 Resid phase (deg) 2.3 +/- 19.1

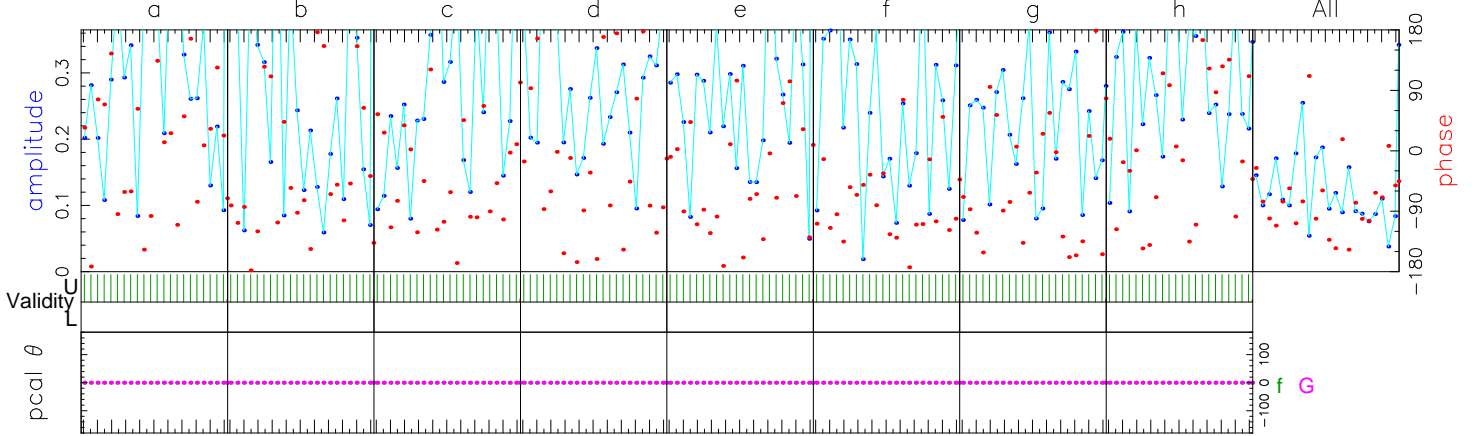
RMS Theor. Amplitude 0.094 +/- 0.016 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 50.6 45.9 Search (4096X32) 0.086 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 68.8 80.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 24.3 27.1 Inc. seg. avg. 0.097 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 46.5 47.3 Inc. frq. avg. 0.089 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

f: az 50.3 el 68.8 pa -114.7 G: az 340.2 el 85.8 pa 161.3 u,v (fr/asec) -3124.629 -809.877 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fG..2LATK4 Output file: /Exps/c222c/v1/3mm/3001/No0100/fG.W.39.2LATK4



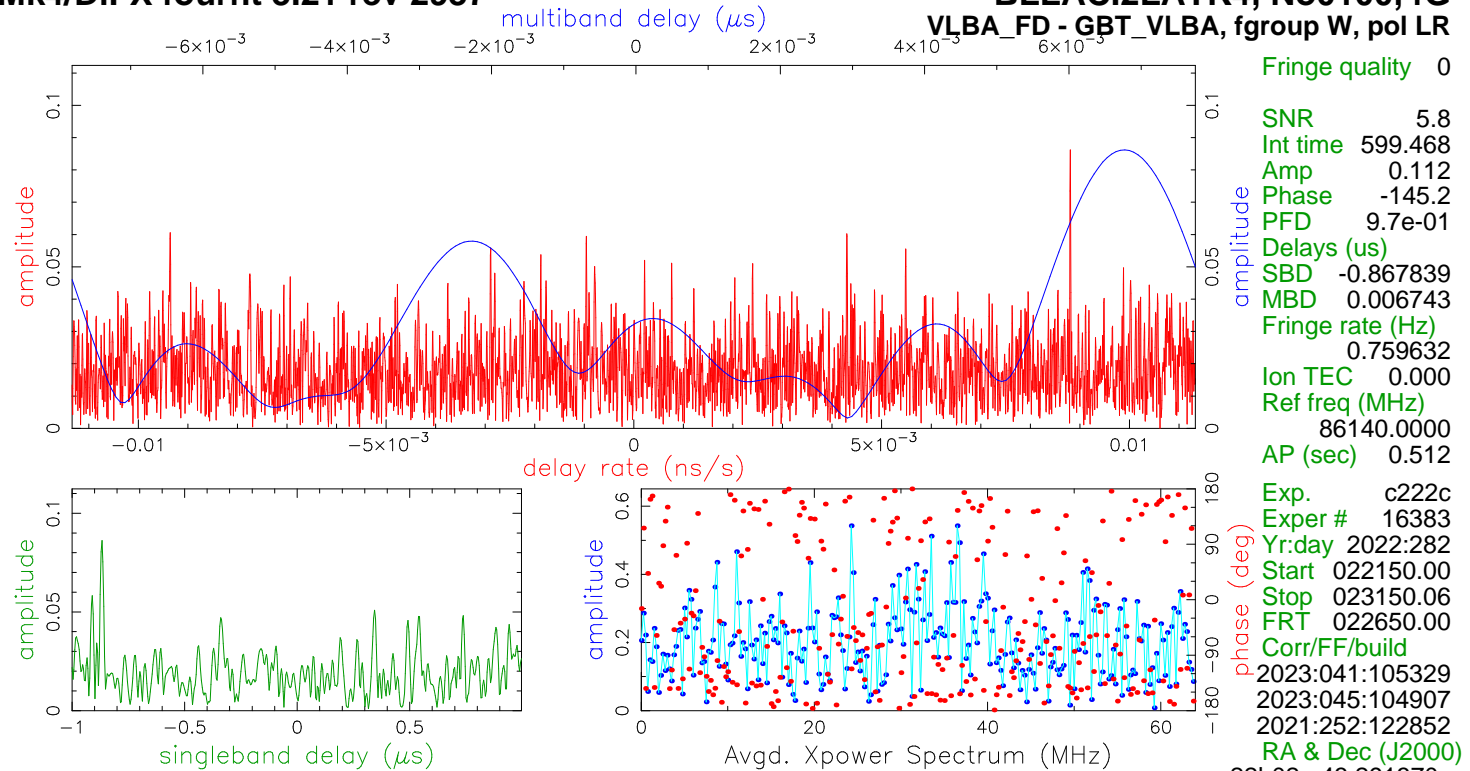
Fringe quality 0
SNR 6.2
Int time 599.468
Amp 0.122
Phase -85.0
PFD 2.8e-01
Delays (us)
SBD 0.738905
MBD -0.001070
Fringe rate (Hz) 0.776344
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build 2023:041:105329
2023:045:104859
2021:252:122852
RA & Dec (J2000) 22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-66.3	-108.0	-71.8	-90.9	-54.0	-84.5	-100.8	-100.8	Phase	-85.0
	0.0	0.2	0.1	0.2	0.1	0.2	0.1	0.0	Ampl.	0.1
	233.6	265.2	490.9	409.0	42.9	445.9	52.1	349.4	Sbd box	446.2
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:G	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	
G	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.18316941078E+03		Apriori delay (usec)		-1.18390271535E+03		Resid mbdelay (usec)		-1.07044E-03	+/- 1.8E-04
Sband delay (usec)	-1.18316381060E+03		Apriori clock (usec)		3.6474648E+01		Resid sbdelay (usec)		7.38905E-01	+/- 1.4E-03
Phase delay (usec)	-1.18390271809E+03		Apriori clockrate (us/s)		-5.4883839E-08		Resid phdelay (usec)		-2.74103E-06	+/- 6.0E-07
Delay rate (us/s)	4.02162331593E-01		Apriori rate (us/s)		4.02153319011E-01		Resid rate (us/s)		9.01258E-06	+/- 1.7E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.02193669208E-06		Resid phase (deg)		-85.0	+/- 18.5

ph/seg (deg) 54.3 44.4 Search (4096X32) 0.091 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 63.1 77.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 20.6 26.2 Inc. seg. avg. 0.122 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 49.4 45.7 Inc. frq. avg. 0.115 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 50.3 el 68.8 pa -114.7 G: az 340.2 el 85.8 pa 161.3 u,v (fr/asec) -3124.629 -809.877 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fG..2LATK4 Output file: /Exps/c222c/v1/3mm/3001/No0100/fG.W.42.2LATK4



Fringe quality 0

SNR 5.8

Int time 599.468

Amp 0.112

Phase -145.2

PFD 9.7e-01

Delays (us)

SBD -0.867839

MBD 0.006743

Fringe rate (Hz) 0.759632

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.512

Exp. c222c

Exper # 16383

Yr:day 2022:282

Start 022150.00

Stop 023150.06

FRT 022650.00

Corr/FF/build

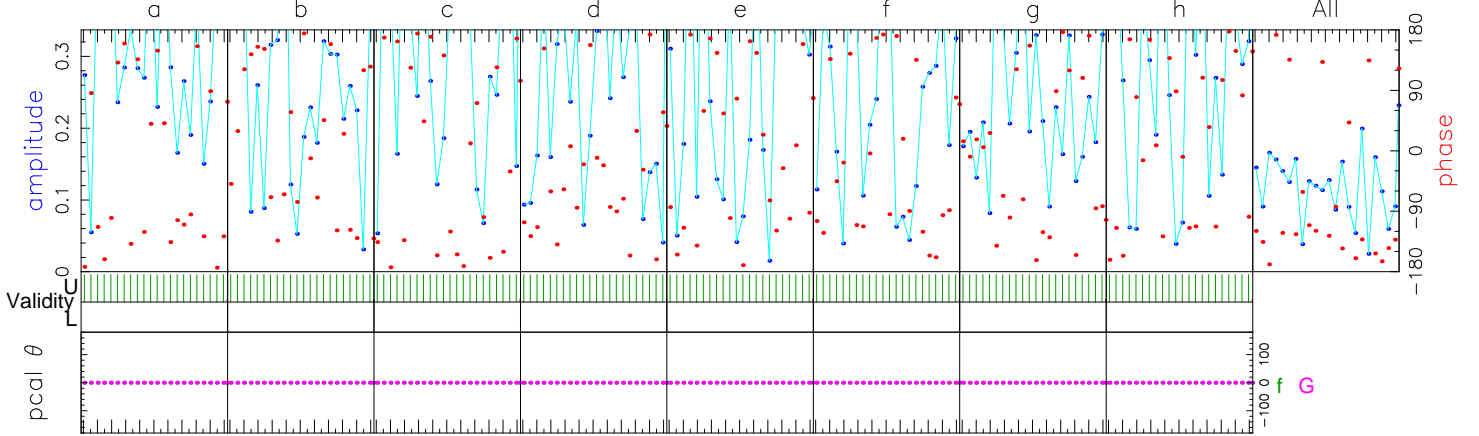
2023:041:105329

2023:045:104907

2021:252:122852

RA & Dec (J2000) 22h02m43.291370s +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-159.1	-104.7	-174.3	-78.2	-146.6	-145.8	-127.8	-159.3	Phase	-145.2
	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
	129.2	344.4	34.3	210.9	50.6	455.8	445.2	34.2	Sbd box	34.8
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.18477097248E+03		Apriori delay (usec)		-1.18390271535E+03		Resid mbdelay (usec)		6.74287E-03	+/- 1.9E-04
Sband delay (usec)	-1.18477055435E+03		Apriori clock (usec)		3.6474648E+01		Resid sbdelay (usec)		-8.67839E-01	+/- 1.5E-03
Phase delay (usec)	-1.18390272003E+03		Apriori clockrate (us/s)		-5.4883839E-08		Resid phdelay (usec)		-4.68377E-06	+/- 6.4E-07
Delay rate (us/s)	4.02162137589E-01		Apriori rate (us/s)		4.02153319011E-01		Resid rate (us/s)		8.81858E-06	+/- 1.8E-09
Total phase (deg)			Apriori accel (us/s/s)		-2.02193669208E-06		Resid phase (deg)		-145.2	+/- 19.8

ph/seg (deg) 55.6 47.5 Search (4096X32) 0.084 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 61.5 82.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

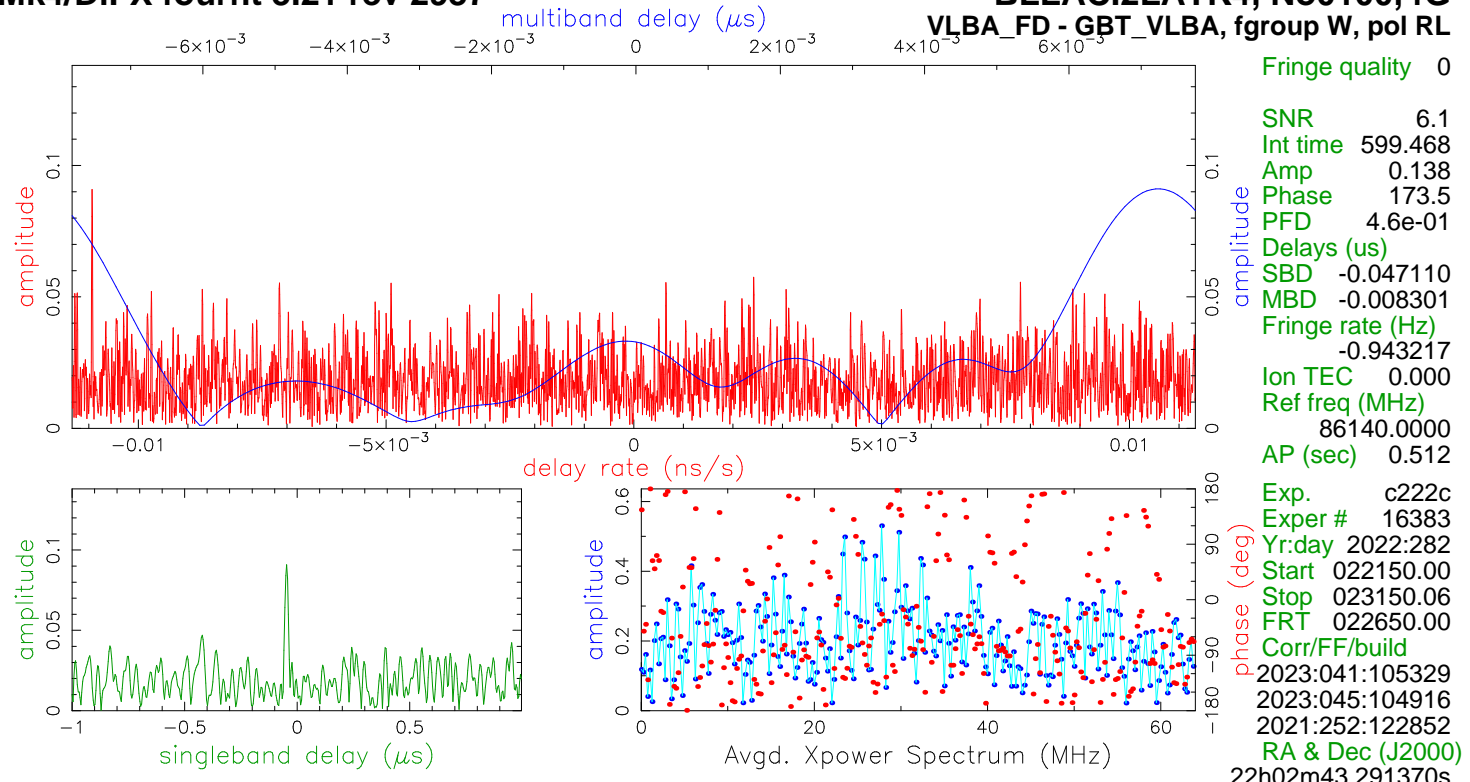
ph/frq (deg) 35.8 28.0 Inc. seg. avg. 0.112 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 44.0 48.9 Inc. frq. avg. 0.114 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

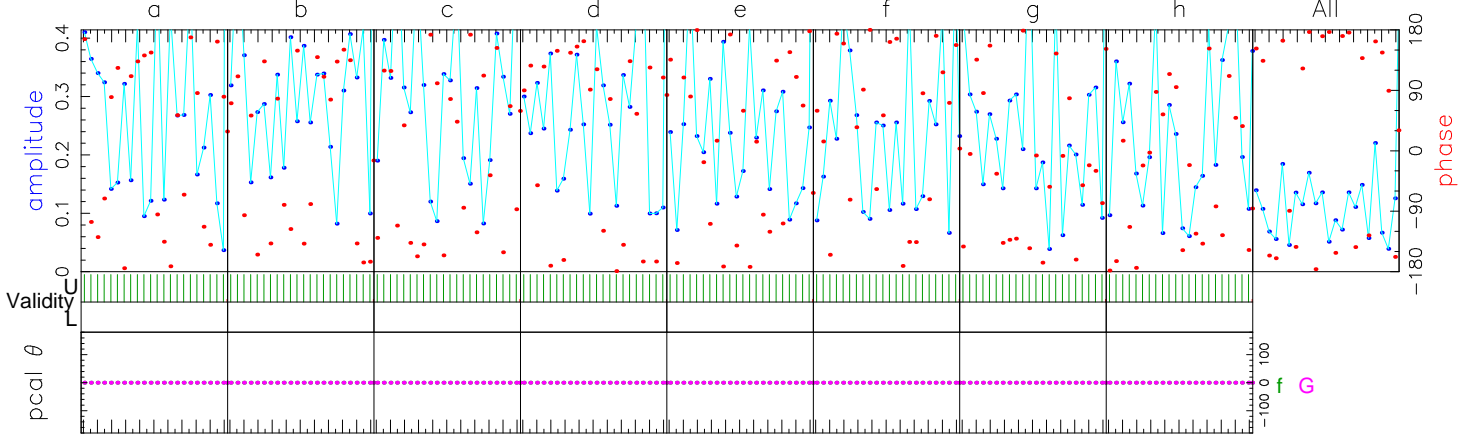
f: az 50.3 el 68.8 pa -114.7 G: az 340.2 el 85.8 pa 161.3 u,v (fr/asec) -3124.629 -809.877 simultaneous interpolator

Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2LATK4, No0100, fG
VLBA_FD - GBT_VLBA, fgroup W, pol RL



Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-164.9	162.3	-166.3	150.5	170.6	170.9	-145.6	132.4	Phase	173.5
	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	Ampl.	0.1
	16.2	436.9	210.8	425.8	318.1	417.0	128.1	98.5	Sbd box	244.9
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:G	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	
G	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.18394226613E+03	Apriori delay (usec)	-1.18390271535E+03	Resid mbdelay (usec)	-8.30078E-03	+/-	1.8E-04
Sband delay (usec)	-1.18394982510E+03	Apriori clock (usec)	3.6474648E+01	Resid sbdelay (usec)	-4.71097E-02	+/-	1.4E-03
Phase delay (usec)	-1.18390270975E+03	Apriori clockrate (us/s)	-5.4883839E-08	Resid phdelay (usec)	5.59621E-06	+/-	6.1E-07
Delay rate (us/s)	4.02142369201E-01	Apriori rate (us/s)	4.02153319011E-01	Resid rate (us/s)	-1.09498E-05	+/-	1.8E-09
Total phase (deg)	-150.4	Apriori accel (us/s/s)	-2.02193669208E-06	Resid phase (deg)	173.5	+/-	18.8

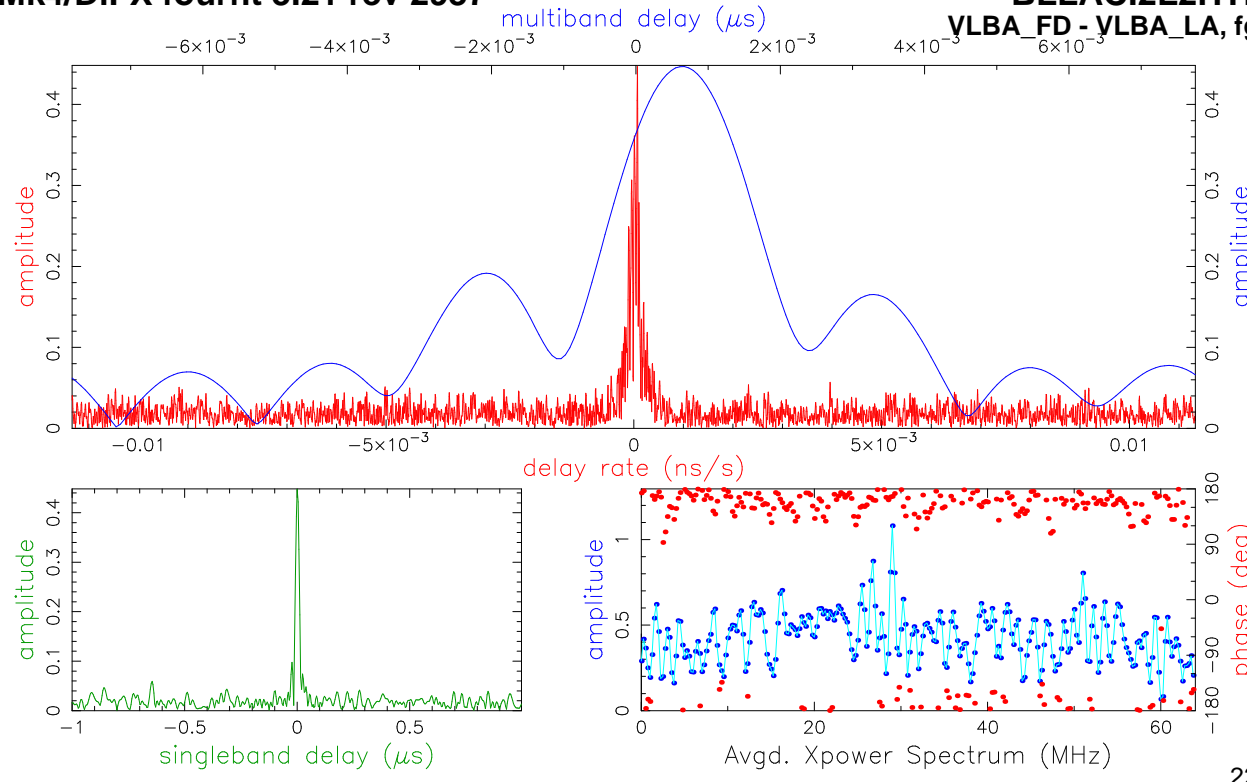
ph/seg (deg)	40.7	Theor.	45.2	Amplitude	0.138 +/- 0.023	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	61.5		78.8	Search (4096X32)	0.089	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	28.6		26.6	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	34.2		46.5	Inc. seg. avg.	0.128	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.135	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

f: az 50.3 el 68.8 pa -114.7 G: az 340.2 el 85.8 pa 161.3 u,v (fr/asec) -3124.629 -809.877 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fG..2LATK4 Output file: /Exps/c222c/v1/3mm/3001/No0100/fG.W.48.2LATK4

Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2L2HTN, No0100, fl
VLBA_FD - VLBA_LA, fgroup W, pol RL

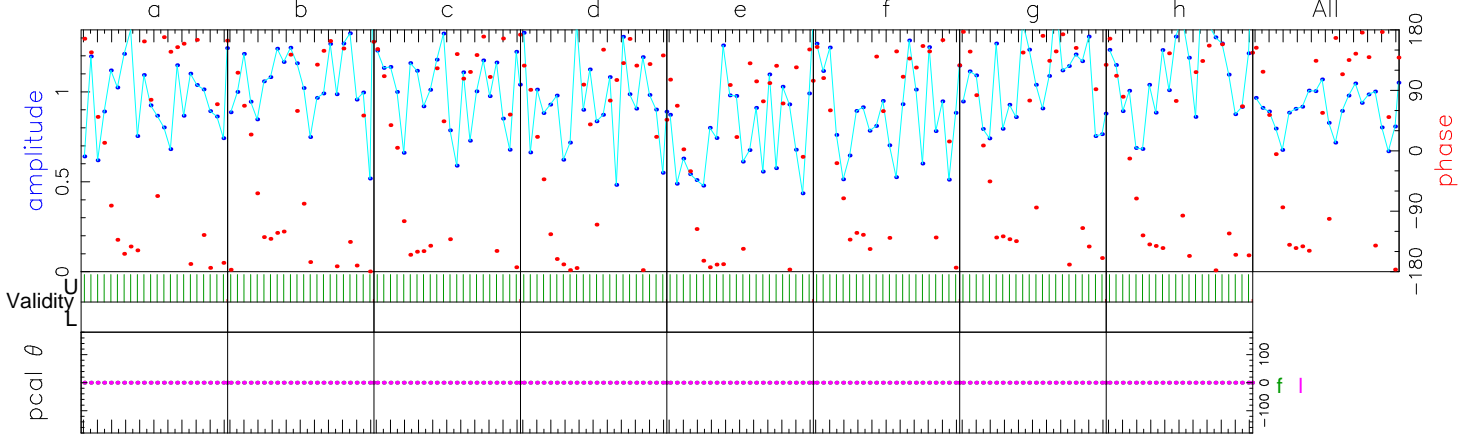


Fringe quality 5

SNR 30.0
Int time 599.469
Amp 0.448
Phase 163.7
PFD 0.0e+00
Delays (us)
SBD 0.000720
MBD 0.000653
Fringe rate (Hz) 0.006333
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

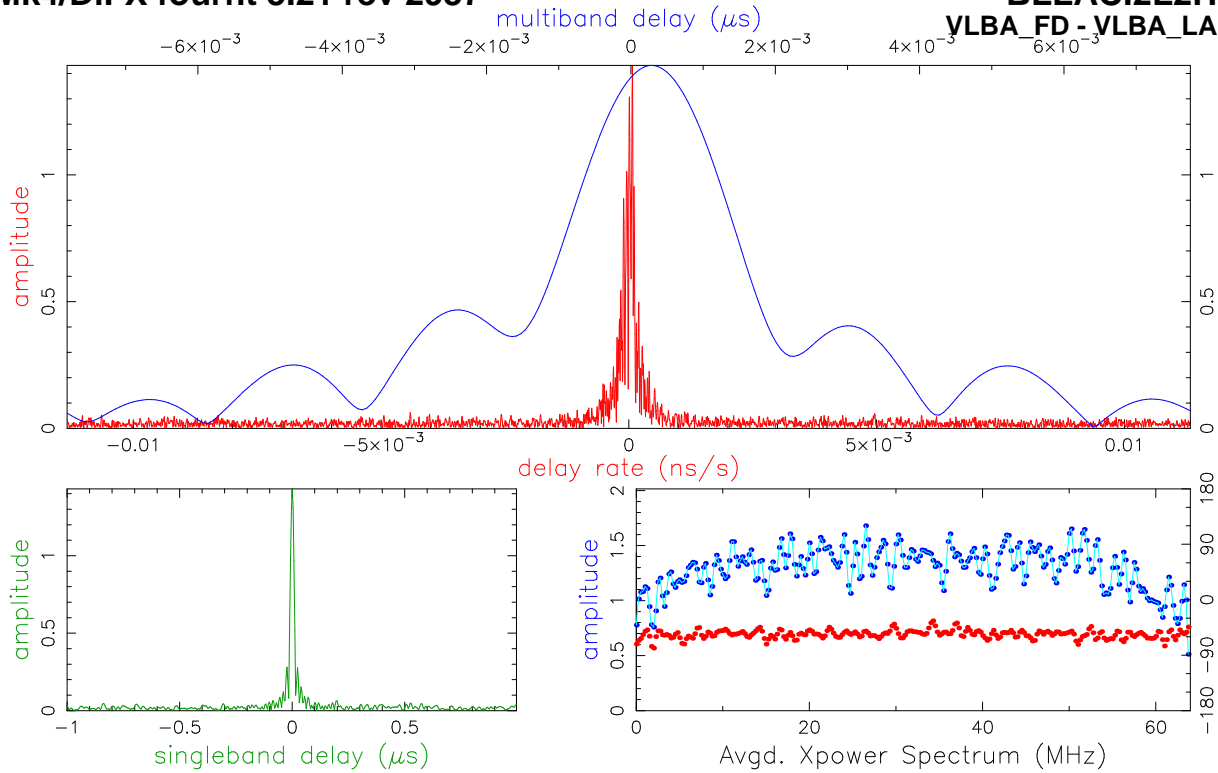
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232046
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



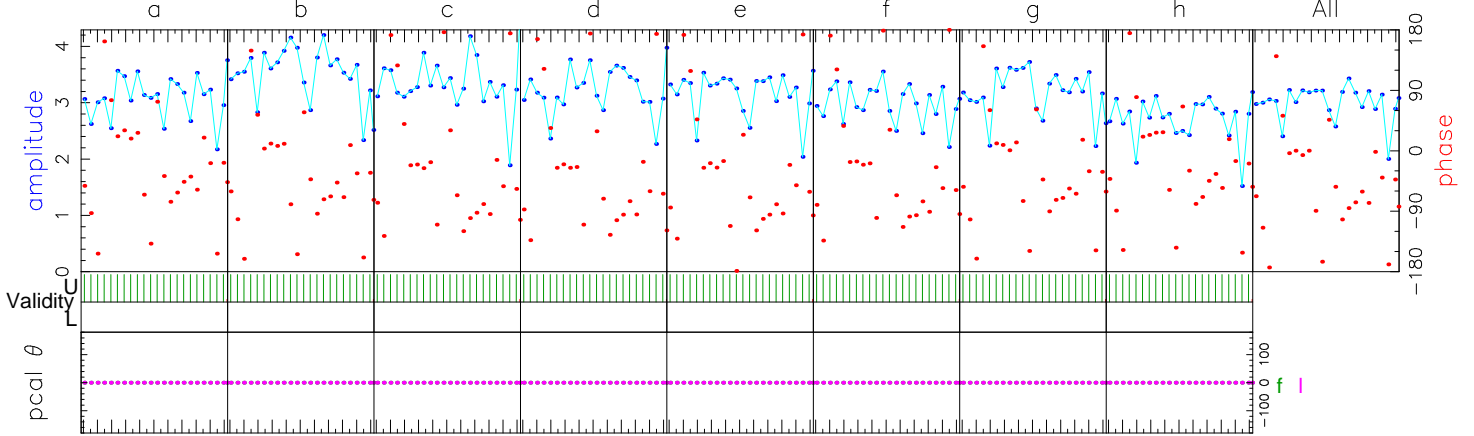
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-177.0	178.3	153.9	139.0	125.5	155.3	179.0	175.8	Phase	163.7
	0.5	0.4	0.5	0.4	0.4	0.4	0.6	0.6	Ampl.	0.5
	257.5	257.1	256.6	257.0	257.2	257.5	257.2	257.3	Sbd box	257.2
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
l	0	0	0	0	0	0	0	0	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.41434256591E+02		Apriori delay (usec)		-1.41434909162E+02		Resid mbdelay (usec)		6.52570E-04	+/- 3.6E-05
Sband delay (usec)	-1.41434189162E+02		Apriori clock (usec)		2.2927656E+01		Resid sbdelay (usec)		7.20000E-04	+/- 2.9E-04
Phase delay (usec)	-1.41434903882E+02		Apriori clockrate (us/s)		1.9659616E-07		Resid phdelay (usec)		5.27996E-06	+/- 1.2E-07
Delay rate (us/s)	-1.51701424834E-02		Apriori rate (us/s)		-1.51702160090E-02		Resid rate (us/s)		7.35256E-08	+/- 3.6E-10
Total phase (deg)	136.7		Apriori accel (us/s/s)		-4.83191956088E-06		Resid phase (deg)		163.7	+/- 3.8

ph/seg (deg) 70.2 9.2 Search (4096X32) 0.438 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 103.0 16.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 23.1 5.4 Inc. seg. avg. 0.885 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 15.8 9.4 Inc. frq. avg. 0.470 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
f: az 50.3 el 68.8 pa -114.7 l: az 63.3 el 70.0 pa -100.7 u,v (fr/asec) 101.060 -839.702 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fl..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fl.W.100.2L2HTN



Fringe quality 4
SNR 95.8
Int time 599.469
Amp 1.432
Phase -57.4
PFD 0.0e+00
Delays (us)
SBD 0.000144
MBD 0.000288
Fringe rate (Hz) 0.006301
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232024
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



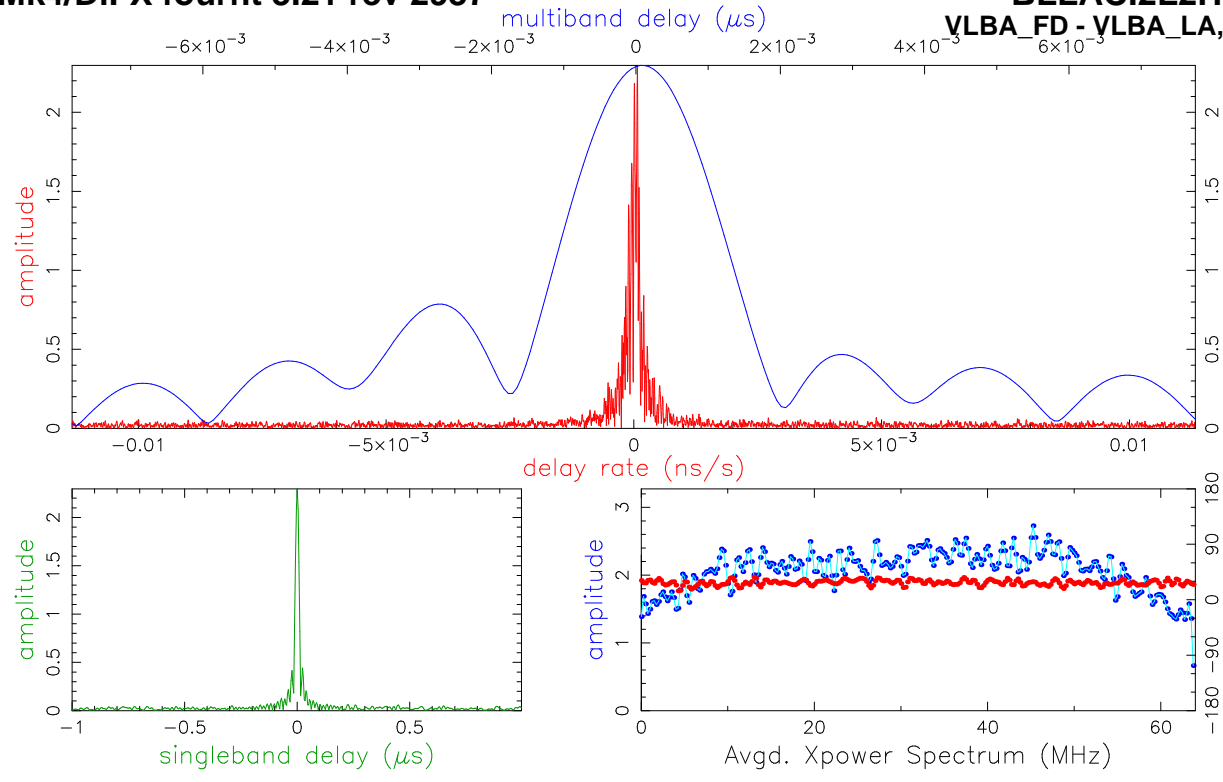
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-31.0	-47.6	-72.6	-78.8	-75.1	-72.5	-46.4	-32.3	Phase	-57.4
	1.4	1.7	1.6	1.5	1.5	1.4	1.6	1.3	Ampl.	1.5
	257.3	256.8	257.1	257.0	257.1	257.2	257.1	257.4	Sbd box	257.0
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
l	0	0	0	0	0	0	0	0	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.41434621216E+02		Apriori delay (usec)		-1.41434909162E+02		Resid mbdelay (usec)		2.87945E-04	+/- 1.1E-05
Sband delay (usec)	-1.41434764662E+02		Apriori clock (usec)		2.2927656E+01		Resid sbdelay (usec)		1.44500E-04	+/- 9.0E-05
Phase delay (usec)	-1.41434911014E+02		Apriori clockrate (us/s)		1.9659616E-07		Resid phdelay (usec)		-1.85212E-06	+/- 3.9E-08
Delay rate (us/s)	-1.51701428596E-02		Apriori rate (us/s)		-1.51702160090E-02		Resid rate (us/s)		7.31494E-08	+/- 1.1E-10
Total phase (deg)			Apriori accel (us/s/s)		-4.83191956088E-06		Resid phase (deg)		-57.4	+/- 1.2

ph/seg (deg) RMS Theor. Amplitude 1.432 +/- 0.015 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 70.6 2.9 Search (4096X32) 1.391 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 111.3 5.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 21.5 1.7 Inc. seg. avg. 2.990 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 9.8 3.0 Inc. frq. avg. 1.507 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

f: az 50.3 el 68.8 pa -114.7 l: az 63.3 el 70.0 pa -100.7 u,v (fr/asec) 101.060 -839.702 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fl.2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fl.W.20.2L2HTN

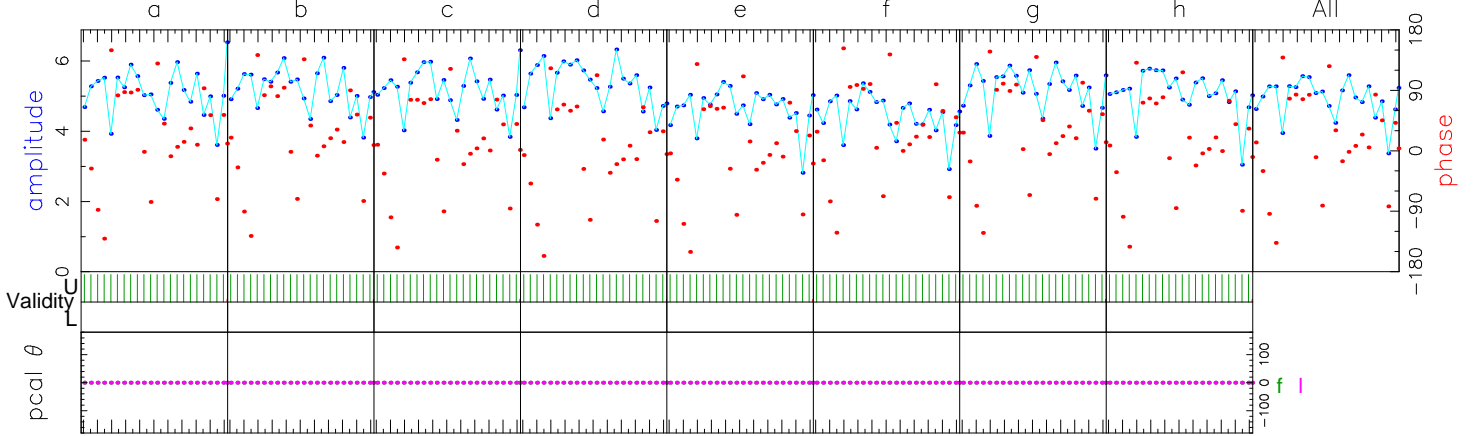
Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2L2HTN, No0100, fl
VLBA_FD - VLBA_LA, fgroup W, pol RR



Fringe quality 4
 SNR 153.8
 Int time 599.469
 Amp 2.297
 Phase 26.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.000015
 MBD 0.000088
 Fringe rate (Hz) 0.006290
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c222c
 Exper # 16383
 Yr:day 2022:282
 Start 022150.00
 Stop 023150.06
 FRT 022650.00
 Corr/FF/build
 2023:040:212407
 2023:040:232031
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



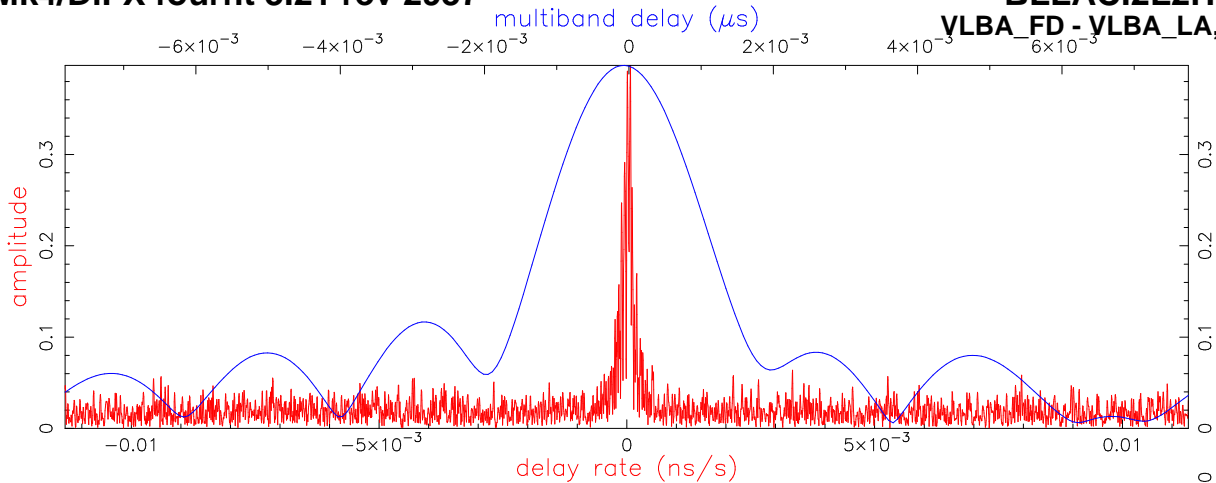
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	33.3	34.0	22.8	9.3	11.7	40.8	39.4	22.4	Phase	26.6
	2.4	2.4	2.4	2.4	2.2	2.1	2.4	2.5	Ampl.	2.3
	257.2	256.9	256.7	256.9	257.3	257.0	256.7	256.9	Sbd box	257.0
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
l	0	0	0	0	0	0	0	0	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.41434821529E+02					-1.41434909162E+02			Resid mbdelay (usec)	8.76329E-05 +/- 7.1E-06
Sband delay (usec)	-1.41434924412E+02					2.2927656E+01			Resid sbdelay (usec)	-1.52500E-05 +/- 5.6E-05
Phase delay (usec)	-1.41434908304E+02					1.9659616E-07			Resid phdelay (usec)	8.57329E-07 +/- 2.4E-08
Delay rate (us/s)	-1.51701429861E-02					-1.51702160090E-02			Resid rate (us/s)	7.30229E-08 +/- 6.9E-11
Total phase (deg)			-0.5			-4.83191956088E-06			Resid phase (deg)	26.6 +/- 0.7

ph/seg (deg) 70.9 1.8
 amp/seg (%) 116.3 3.1
 ph/frq (deg) 13.0 1.1
 amp/frq (%) 6.0 1.8
 f: az 50.3 el 68.8 pa -114.7
 Control file: cf_1234_gmva

RMS Theor. Amplitude 2.297 +/- 0.015
 Search (4096X32) 2.277
 Interp. 0.000
 Inc. seg. avg. 4.911
 Inc. frq. avg. 2.341
 I: az 63.3 el 70.0 pa -100.7
 Input file: /Exps/c222c/v1/3mm/3001/No0100/fl..2L2HTN

pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s)
 Bits/sample: 2x2 SampCntNorm: enabled
 Sample rate(MISamp/s): 128
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite
 sb window (us) -1.000 1.000
 mb window (us) -0.008 0.008
 dr window (ns/s) -0.011 0.011
 ion window (TEC) 0.00 0.00
 simultaneous interpolator

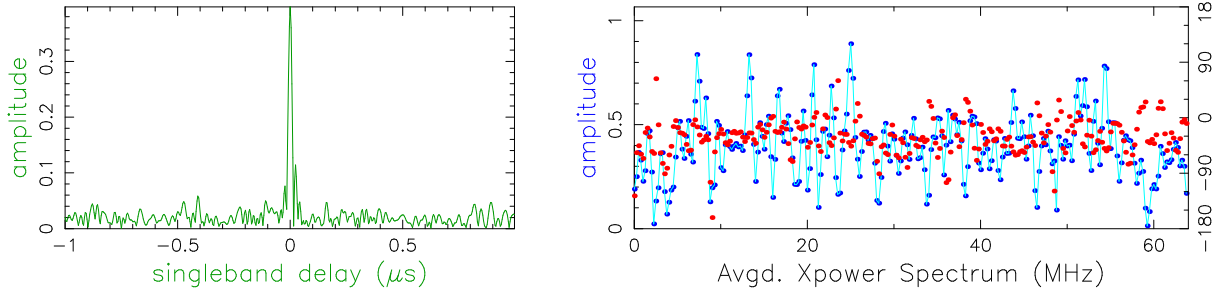
u,v (fr/asec) 101.060 -839.702
 Output file: /Exps/c222c/v1/3mm/3001/No0100/fl.W.46.2L2HTN



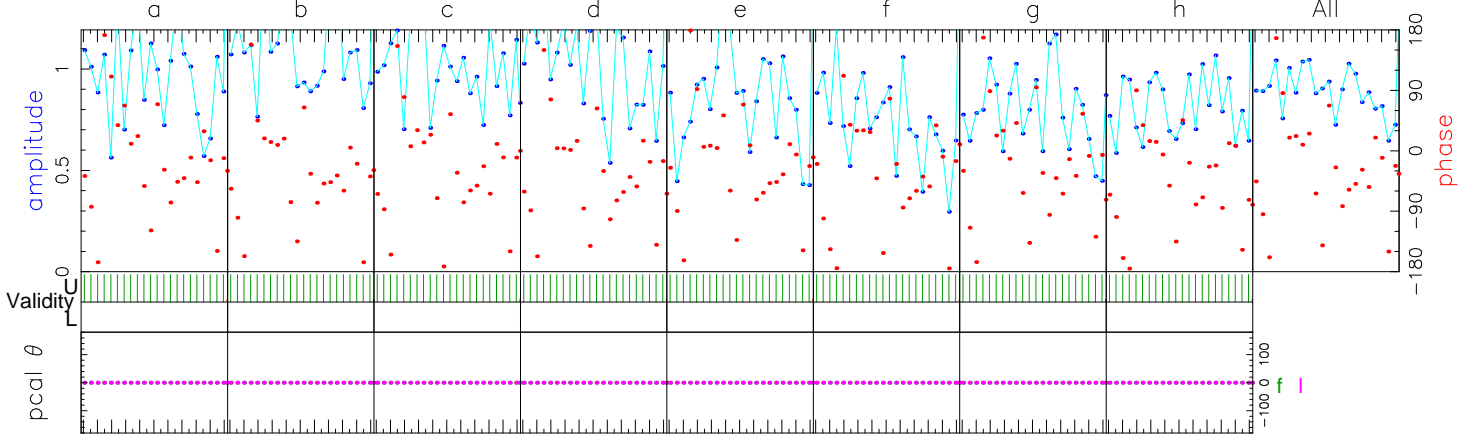
Fringe quality 7

SNR 26.6
Int time 599.469
Amp 0.398
Phase -31.2
PFD 0.0e+00
Delays (us)
SBD -0.000049
MBD -0.000075
Fringe rate (Hz)
0.006284
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232038
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

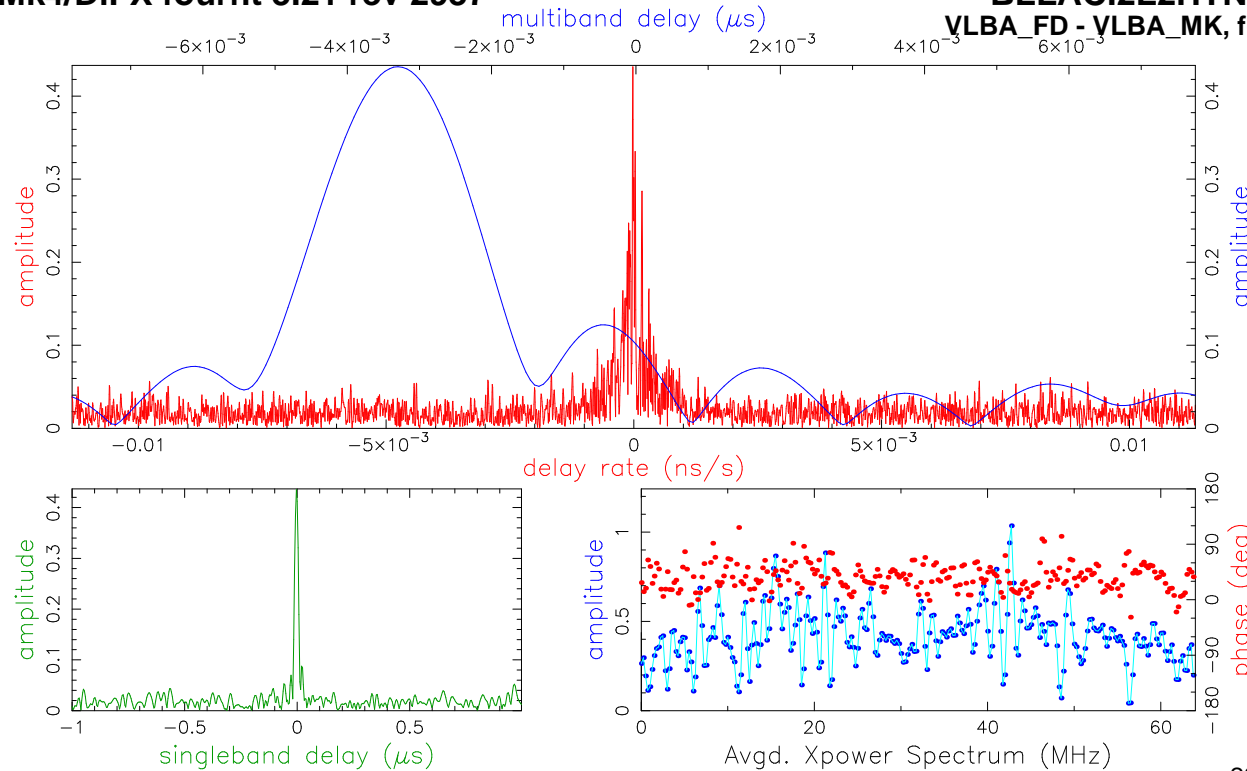


Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-27.1	-35.2	-31.5	-38.6	-21.5	-29.6	-23.4	-38.4	Phase	-31.2
	0.4	0.6	0.4	0.4	0.4	0.2	0.3	0.4	Ampl.	0.4
	257.3	256.6	257.2	257.2	256.2	256.5	257.1	257.7	Sbd box	257.0
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
l	0	0	0	0	0	0	0	0	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.41434983966E+02		Apriori delay (usec)		-1.41434909162E+02		Resid mbdelay (usec)		-7.48046E-05	+/- 4.1E-05
Sband delay (usec)	-1.41434958662E+02		Apriori clock (usec)		2.2927656E+01		Resid sbdelay (usec)		-4.95000E-05	+/- 3.2E-04
Phase delay (usec)	-1.41434910168E+02		Apriori clockrate (us/s)		1.9659616E-07		Resid phdelay (usec)		-1.00676E-06	+/- 1.4E-07
Delay rate (us/s)	-1.51701430626E-02		Apriori rate (us/s)		-1.51702160090E-02		Resid rate (us/s)		7.29464E-08	+/- 4.0E-10
Total phase (deg)			Apriori accel (us/s/s)		-4.83191956088E-06		Resid phase (deg)		-31.2	+/- 4.3

ph/seg (deg) 72.0 10.3 Amplitude 0.398 +/- 0.015 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 126.7 18.0 Search (4096X32) 0.394 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 7.0 6.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 24.6 10.6 Inc. seg. avg. 0.875 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 f: az 50.3 el 68.8 pa -114.7 l: az 63.3 el 70.0 pa -100.7 u, v (fr/asec) 101.060 -839.702 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fl..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fl.W.72.2L2HTN simultaneous interpolator

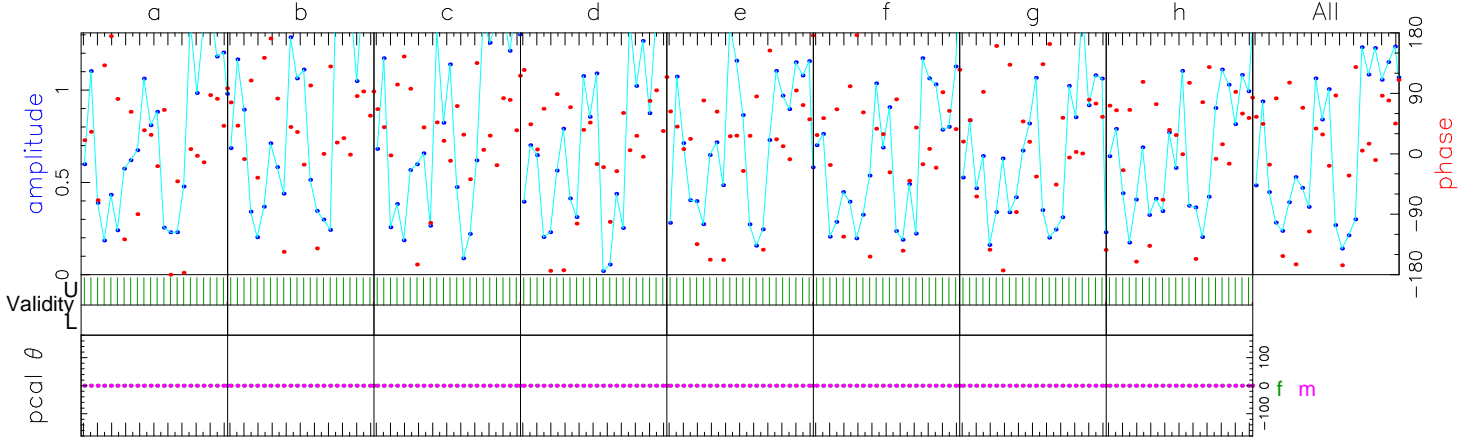


Fringe quality 7

SNR 29.3
Int time 599.469
Amp 0.437
Phase 37.6
PFD 0.0e+00
Delays (us)
SBD -0.003118
MBD -0.003282
Fringe rate (Hz)
-0.001711
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232149
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



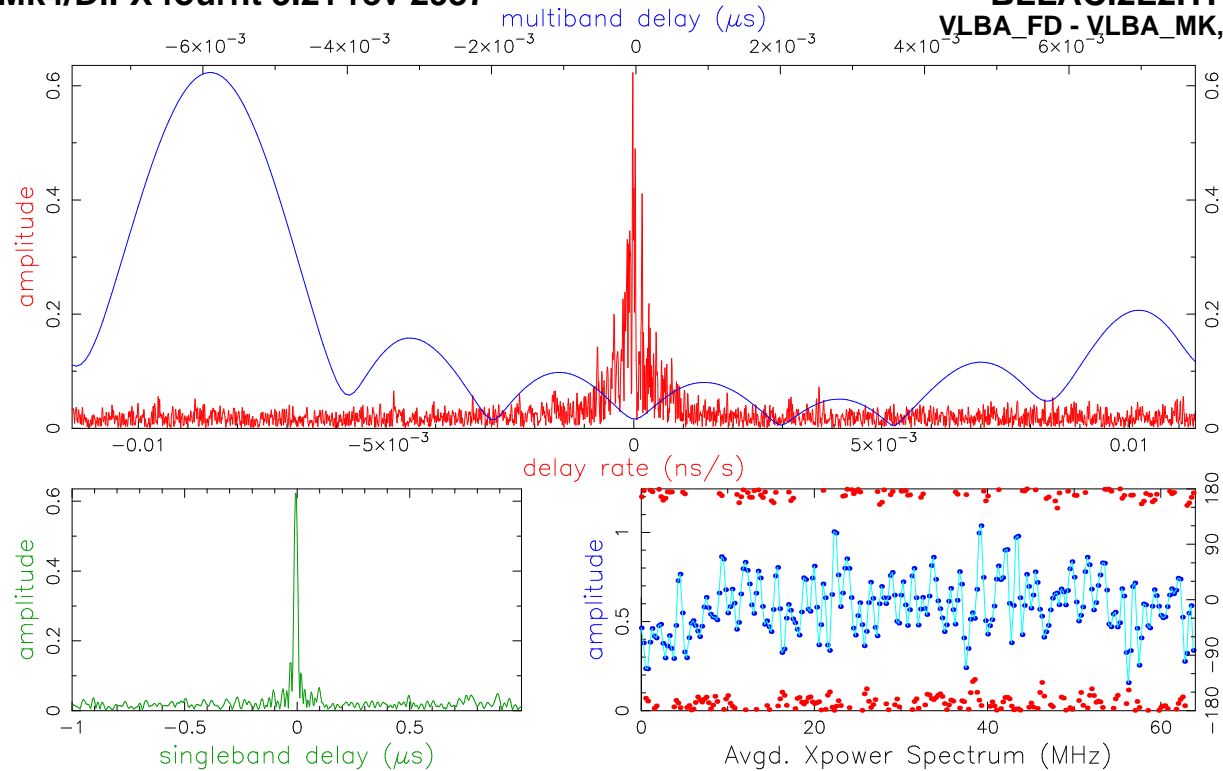
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	29.3	45.2	41.6	38.2	40.1	24.8	33.0	42.9	Phase	37.6
	0.4	0.6	0.6	0.5	0.4	0.4	0.3	0.4	Ampl.	0.4
	256.6	256.2	256.1	256.3	256.3	255.9	256.0	256.0	Sbd box	256.2
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
m	0	0	0	0	0	0	0	0	PC freqs	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.05538843846E+04	Apriori delay (usec)	1.05538876670E+04	Resid mbdelay (usec)	-3.28239E-03	+/-	3.7E-05
Sband delay (usec)	1.05538845493E+04	Apriori clock (usec)	1.5888287E+01	Resid sbdelay (usec)	-3.11775E-03	+/-	2.9E-04
Phase delay (usec)	1.05538876682E+04	Apriori clockrate (us/s)	-3.1290384E-07	Resid phdelay (usec)	1.21352E-06	+/-	1.3E-07
Delay rate (us/s)	-6.81137165670E-01	Apriori rate (us/s)	-6.81137145812E-01	Resid rate (us/s)	-1.98577E-08	+/-	3.6E-10
Total phase (deg)	266.9	Apriori accel (us/s/s)	-4.30768127433E-05	Resid phase (deg)	37.6	+/-	3.9

ph/seg (deg)	RMS 79.6	Theor. 9.4	Amplitude Search (4096X32)	0.437 +/- 0.015	0.421	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	79.6	9.4	Search (4096X32)	0.421	0.421	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	105.0	16.4	Interp.	0.000	0.000	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	7.8	5.5	Inc. seg. avg.	0.673	0.673	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00
	17.6	9.7	Inc. frq. avg.	0.436	0.436						

f: az 50.3 el 68.8 pa -114.7 m: az 51.5 el 25.1 pa -85.1 u,v (fr/asec) 5139.829 -2085.936 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fm..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fm.W.210.2L2HTN

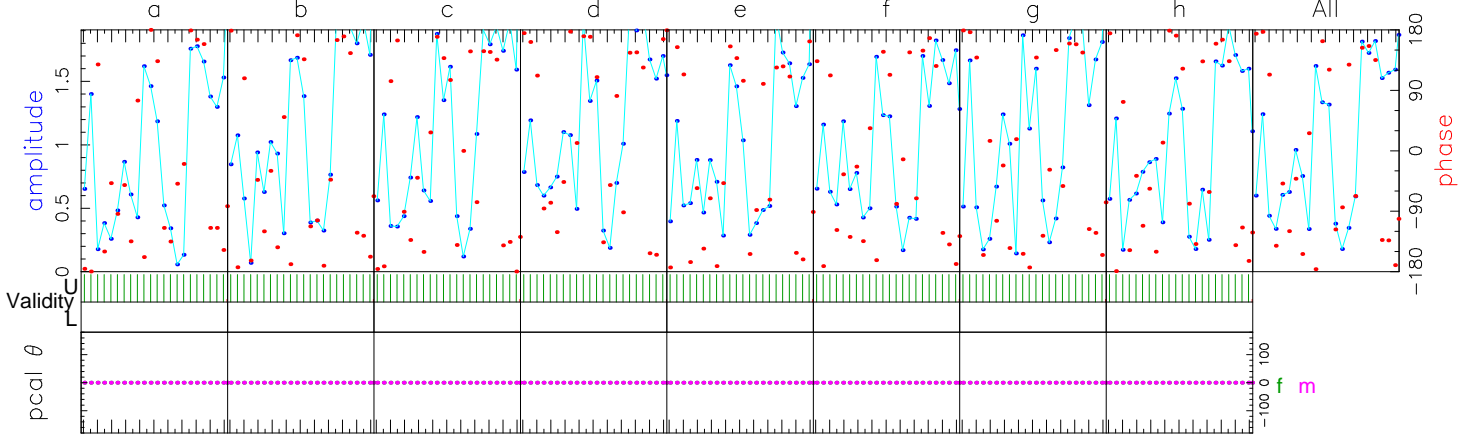


Fringe quality 6

SNR 42.6
Int time 599.469
Amp 0.636
Phase -176.7
PFD 0.0e+00
Delays (us)
SBD -0.006002
MBD -0.005861
Fringe rate (Hz)
-0.001760
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

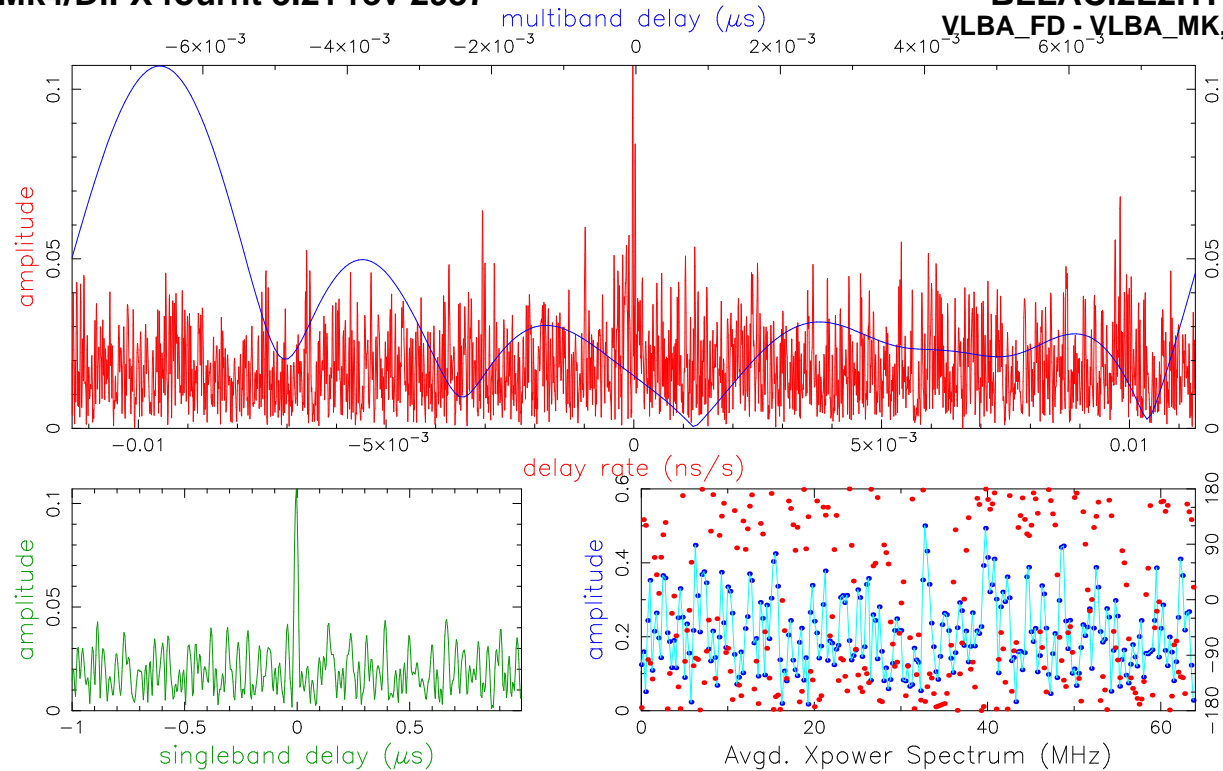
Exp. c222c
Yr:day 16383
2023:040:212407
2023:040:232154
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-162.0	-164.9	177.4	169.7	159.5	-176.3	-167.3	-172.8	Phase	-176.7
	0.6	0.7	0.7	0.7	0.6	0.5	0.7	0.6	Ampl.	0.6
	255.1	255.2	255.2	255.5	255.8	255.7	255.5	255.7	Sbd box	255.5
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
m	0	0	0	0	0	0	0	0	PC freqs	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.05538818064E+04		Apriori delay (usec)		1.05538876670E+04		Resid mbdelay (usec)		-5.86061E-03	+/- 2.6E-05
Sband delay (usec)	1.05538816650E+04		Apriori clock (usec)		1.5888287E+01		Resid sbdelay (usec)		-6.00200E-03	+/- 2.0E-04
Phase delay (usec)	1.05538876613E+04		Apriori clockrate (us/s)		-3.1290384E-07		Resid phdelay (usec)		-5.69967E-06	+/- 8.7E-08
Delay rate (us/s)	-6.81137166243E-01		Apriori rate (us/s)		-6.81137145812E-01		Resid rate (us/s)		-2.04309E-08	+/- 2.5E-10
Total phase (deg)	52.5		Apriori accel (us/s/s)		-4.30768127433E-05		Resid phase (deg)		-176.7	+/- 2.7

ph/seg (deg) 70.3 6.5 Search (4096X32) 0.614 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 104.2 11.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 14.4 3.8 Inc. seg. avg. 0.985 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 9.1 6.6 Inc. frq. avg. 0.636 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
f: az 50.3 el 68.8 pa -114.7 m: az 51.5 el 25.1 pa -85.1 u,v (fr/asec) 5139.829 -2085.936 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fm..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fm.W.223.2L2HTN

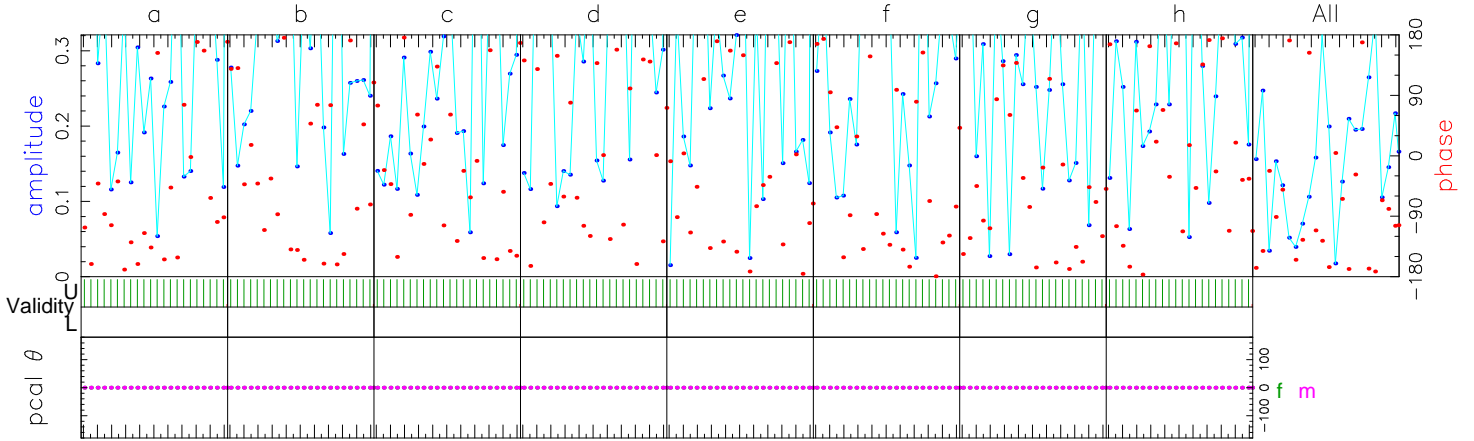


Fringe quality 0

SNR 7.2
Int time 599.469
Amp 0.107
Phase -134.0
PFD 4.7e-04
Delays (us)
SBD -0.004435
MBD -0.006602
Fringe rate (Hz)
-0.001860
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232159
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-129.3	-136.0	-100.0	-146.3	-141.4	-146.6	-127.1	-107.1	Phase	-134.0
	0.2	0.1	0.0	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1
	255.7	364.8	213.2	338.4	275.5	256.5	115.1	399.7	Sbd box	255.9
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
m	0	0	0	0	0	0	0	0	PC freqs	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	1.05538810649E+04	Apriori delay (usec)	1.05538876670E+04	Resid mbdelay (usec)	-6.60214E-03	+/-	1.5E-04
Sband delay (usec)	1.05538832318E+04	Apriori clock (usec)	1.5888287E+01	Resid sbdelay (usec)	-4.43525E-03	+/-	1.2E-03
Phase delay (usec)	1.05538876627E+04	Apriori clockrate (us/s)	-3.1290384E-07	Resid phdelay (usec)	-4.32146E-06	+/-	5.2E-07
Delay rate (us/s)	-6.81137167402E-01	Apriori rate (us/s)	-6.81137145812E-01	Resid rate (us/s)	-2.15901E-08	+/-	1.5E-09
Total phase (deg)	95.2	Apriori accel (us/s/s)	-4.30768127433E-05	Resid phase (deg)	-134.0	+/-	16.0

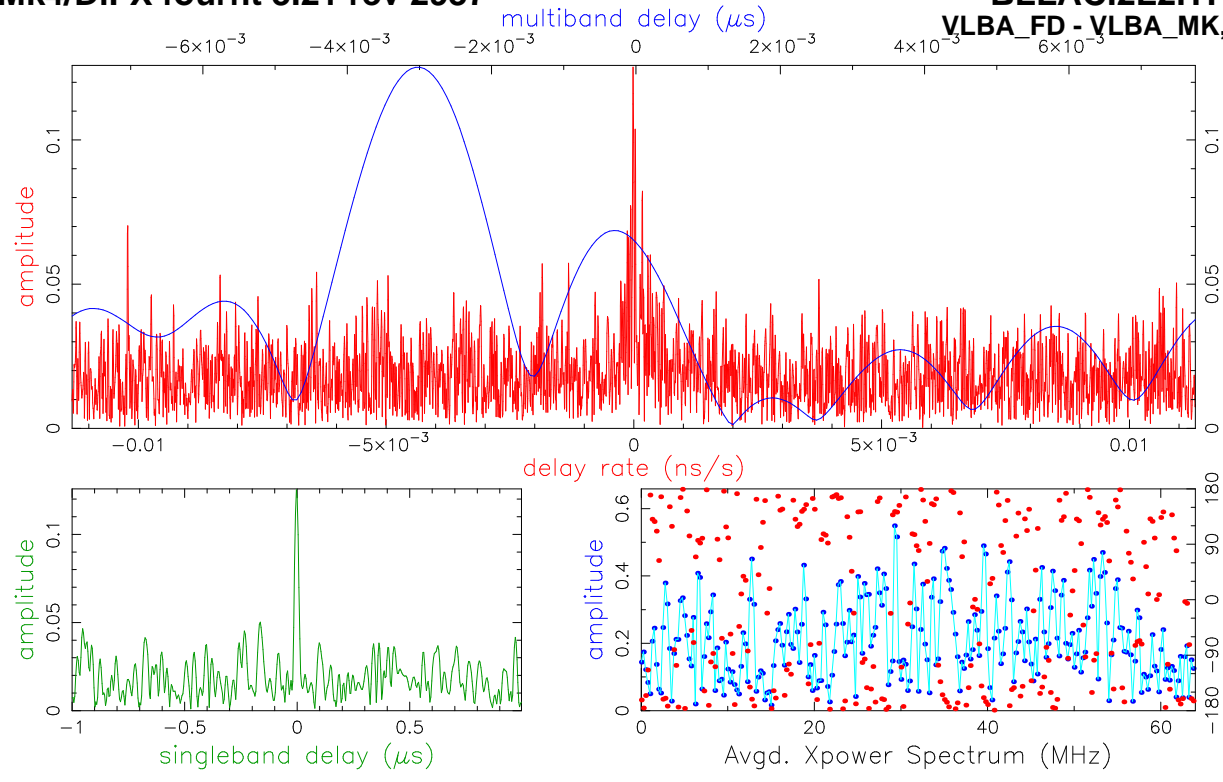
ph/seg (deg)	RMS 61.5	Theor. 38.3	Amplitude Search (4096X32)	0.107 +/- 0.015	0.104	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	94.4	66.9	Interp.	0.000	0.104	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	19.7	22.6	Inc. seg. avg.	0.129	0.129	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	45.3	39.5	Inc. frq. avg.	0.102	0.102	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 50.3 el 68.8 pa -114.7 m: az 51.5 el 25.1 pa -85.1 u,v (fr/asec) 5139.829 -2085.936 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fm..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fm.W.240.2L2HTN

Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2L2HTN, No0100, fm
VLBA_FD - VLBA_MK, fgroup W, pol RL

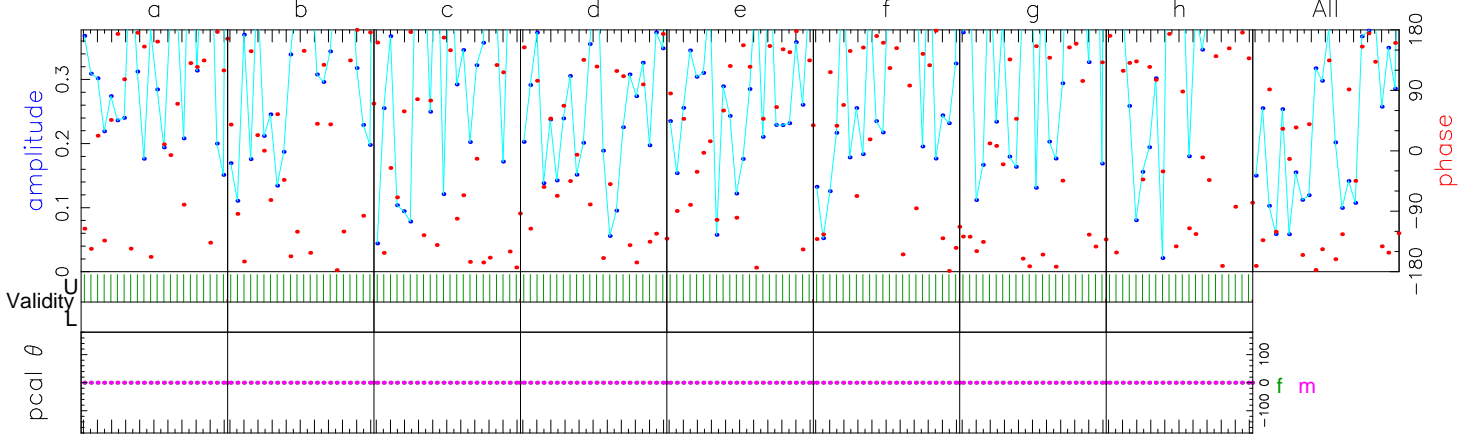


Fringe quality 9

SNR 8.4
Int time 599.469
Amp 0.126
Phase 173.7
PFD 2.6e-08
Delays (us)
SBD -0.002909
MBD -0.002999
Fringe rate (Hz)
-0.001480
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

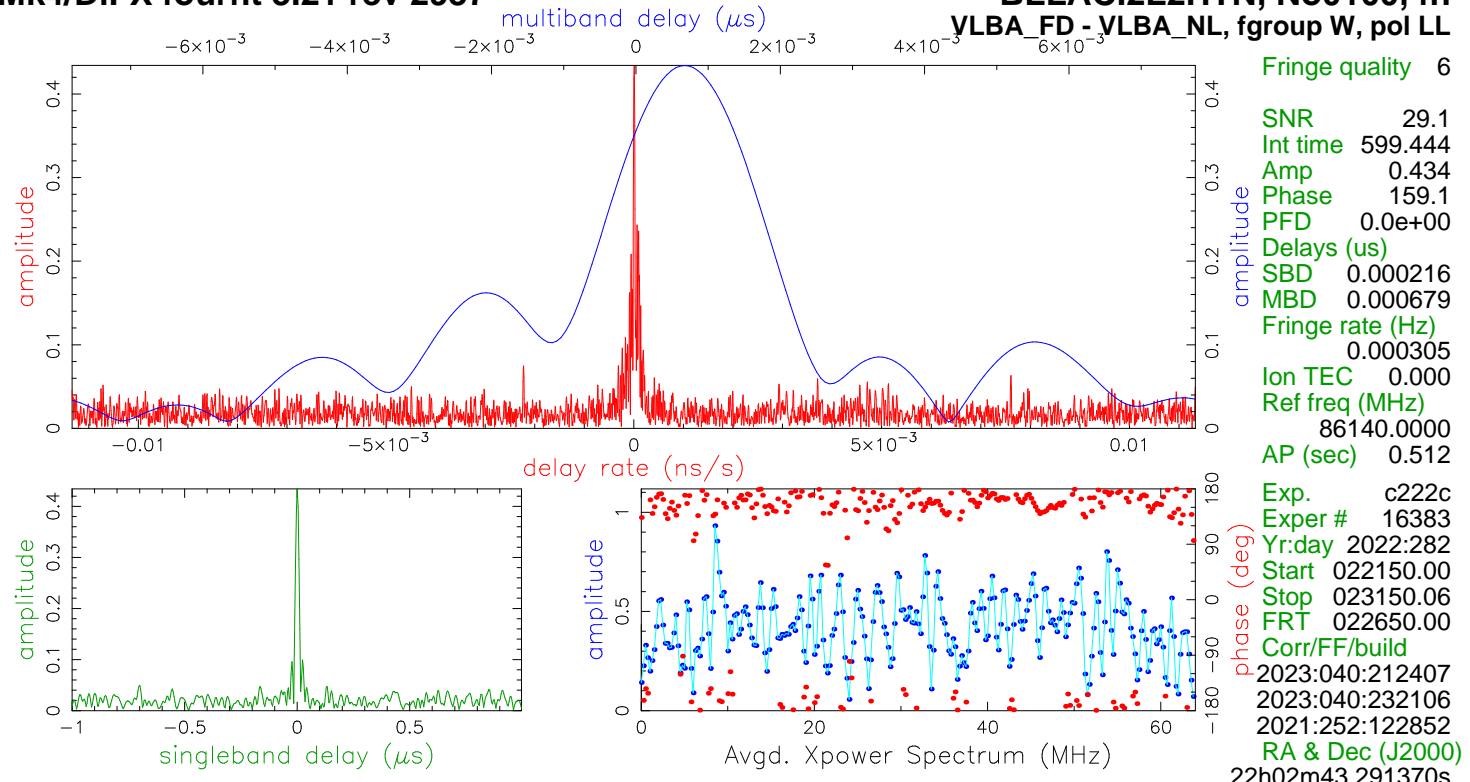
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232205
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

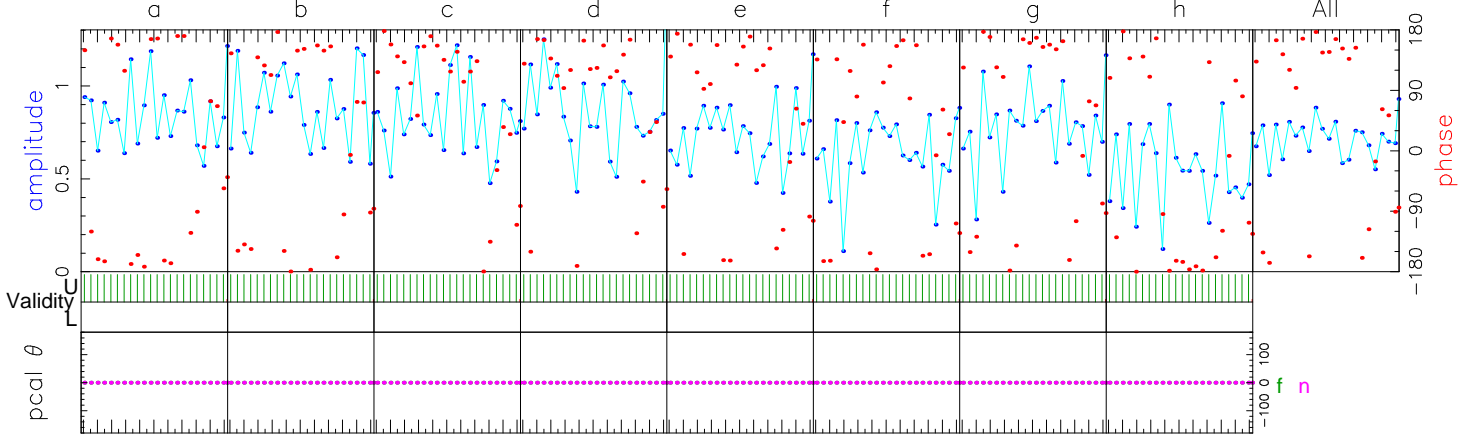


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	166.1	-177.7	-163.5	177.3	127.0	155.5	-168.3	170.2	Phase	173.7
	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	Ampl.	0.1
	192.0	493.8	254.3	18.0	211.1	139.8	256.2	256.6	Sbd box	256.3
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
m	0	0	0	0	0	0	0	0	PC freqs	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:m	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	
m	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.05538846678E+04		Apriori delay (usec)		1.05538876670E+04		Resid mbdelay (usec)		-2.99923E-03	+/- 1.3E-04
Sband delay (usec)	1.05538847575E+04		Apriori clock (usec)		1.5888287E+01		Resid sbdelay (usec)		-2.90950E-03	+/- 1.0E-03
Phase delay (usec)	1.05538876726E+04		Apriori clockrate (us/s)		-3.1290384E-07		Resid phdelay (usec)		5.60121E-06	+/- 4.4E-07
Delay rate (us/s)	-6.81137162990E-01		Apriori rate (us/s)		-6.81137145812E-01		Resid rate (us/s)		-1.71776E-08	+/- 1.3E-09
Total phase (deg)			Apriori accel (us/s/s)		-4.30768127433E-05		Resid phase (deg)		173.7	+/- 13.6

ph/seg (deg) 80.5 32.6 Amplitude 0.126 +/- 0.015 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 117.6 56.9 Search (4096X32) 0.125 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 24.2 19.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.5 33.6 Inc. seg. avg. 0.191 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 f: az 50.3 el 68.8 pa -114.7 m: az 51.5 el 25.1 pa -85.1 u,v (fr/asec) 5139.829 -2085.936 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fm..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fm.W.258.2L2HTN simultaneous interpolator



Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

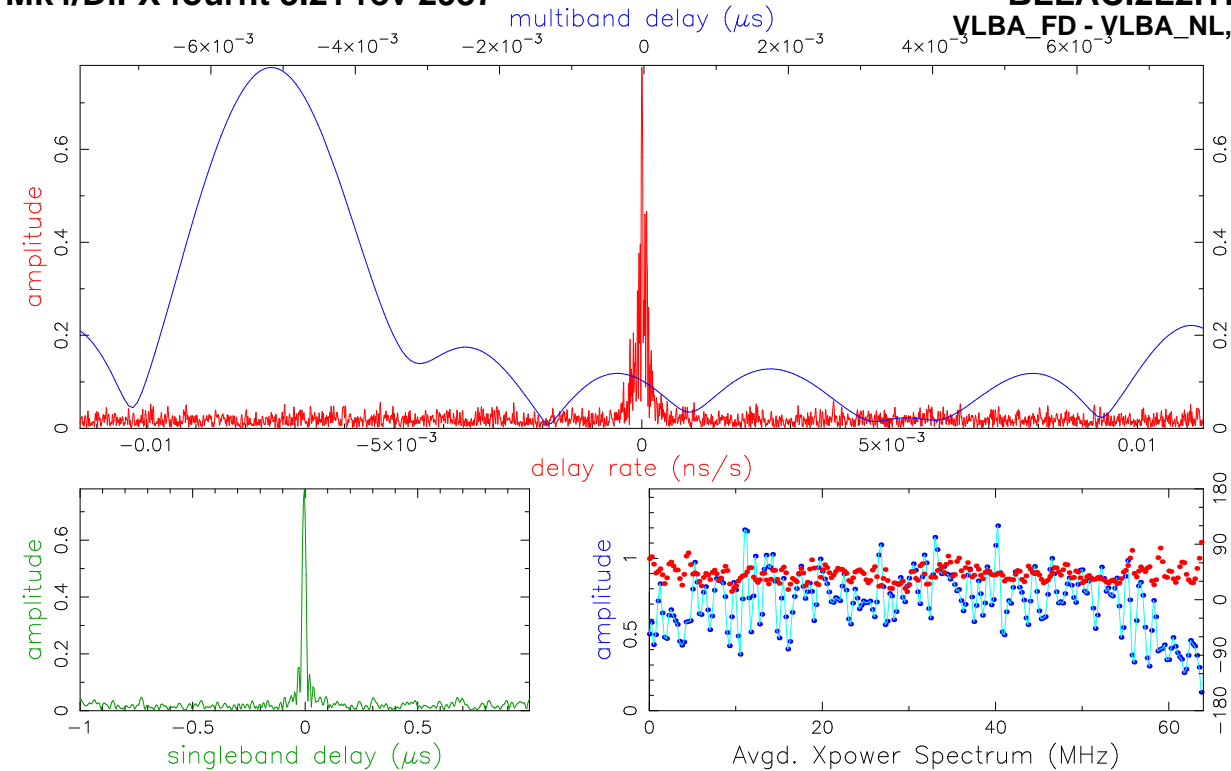


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-175.8	165.3	130.2	144.6	153.0	151.7	168.3	176.0	Phase	159.1
	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.4	Ampl.	0.5
	257.2	256.8	257.0	257.2	257.2	257.2	257.1	257.5	Sbd box	257.1
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
n	0	0	0	0	0	0	0	0	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	Manl 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)	-1.17926442777E+03		Apriori delay (usec)		-1.17926510634E+03		Resid mbdelay (usec)		6.78566E-04	+/- 3.7E-05
Sband delay (usec)	-1.17926489059E+03		Apriori clock (usec)		-3.3351936E+00		Resid sbdelay (usec)		2.15750E-04	+/- 3.0E-04
Phase delay (usec)	-1.17926510121E+03		Apriori clockrate (us/s)		-3.5875385E-07		Resid phdelay (usec)		5.13064E-06	+/- 1.3E-07
Delay rate (us/s)	2.24574769238E-01		Apriori rate (us/s)		2.24574765701E-01		Resid rate (us/s)		3.53712E-09	+/- 3.7E-10
Total phase (deg)	65.6		Apriori accel (us/s/s)		-5.64390141280E-06		Resid phase (deg)		159.1	+/- 3.9

	RMS	Theor.	Amplitude	0.434 +/- 0.015	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
ph/seg (deg)	62.8	9.5	Search (4096X32)	0.427	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
amp/seg (%)	66.9	16.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	19.1	5.6	Inc. seg. avg.	0.700	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011	
amp/frq (%)	16.0	9.7	Inc. frq. avg.	0.452	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC) 0.00 0.00

f: az 50.3 el 68.8 pa -114.7 n: az 81.9 el 82.7 pa -91.7 u,v (fr/asec) -1760.550 -1390.418 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fn..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fn.W.117.2L2HTN

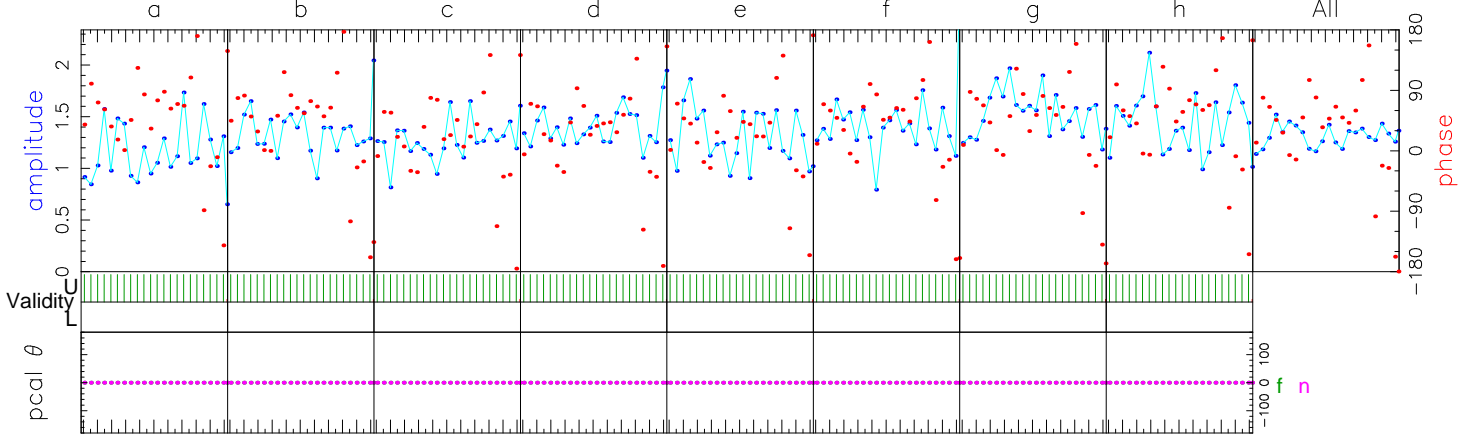


Fringe quality 4

SNR 52.3
Int time 599.444
Amp 0.780
Phase 44.5
PFD 0.0e+00
Delays (us)
SBD -0.004905
MBD -0.005182
Fringe rate (Hz) 0.000042
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

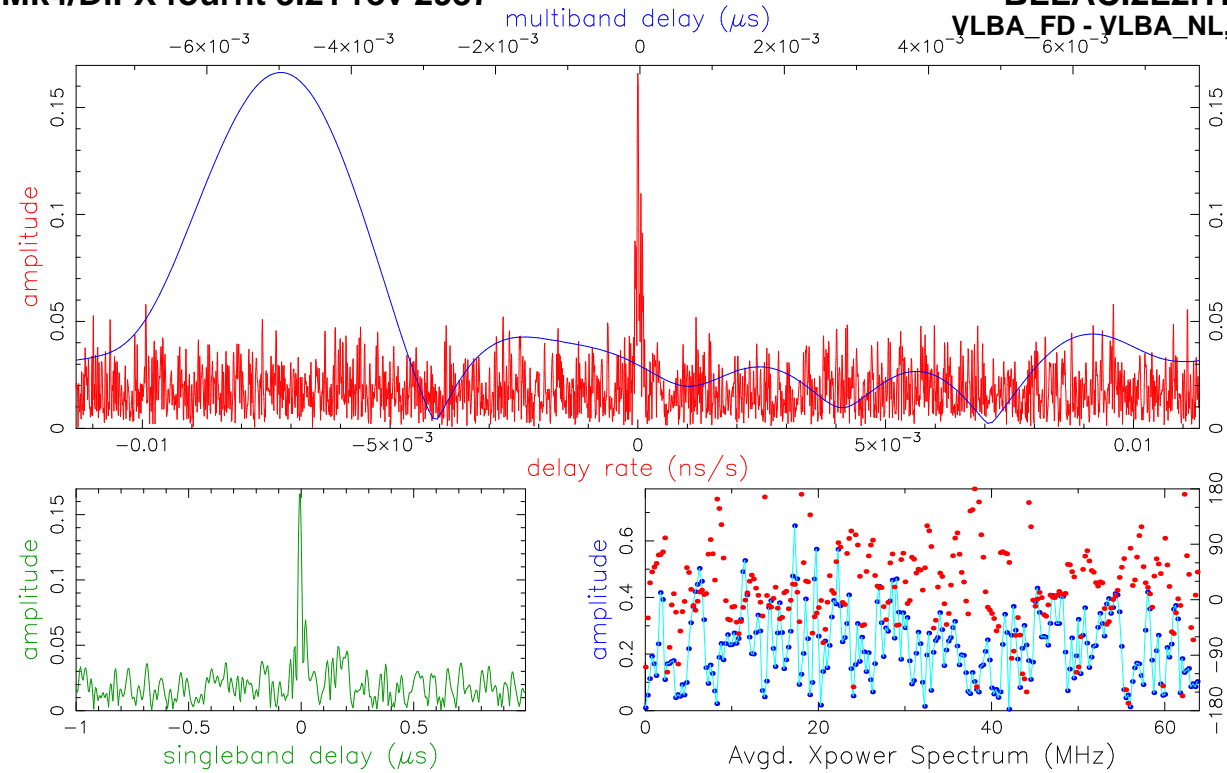
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232115
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0		
f	0	0	0	0	0	0	0	0	Ampl.	0.8
n	0	0	0	0	0	0	0	0	Sbd box	255.7
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
n	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
f	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)	-1.17927028827E+03								Resid mbdelay (usec)	-5.18194E-03 +/- 2.1E-05
Sband delay (usec)	-1.17927001184E+03								Resid sbdelay (usec)	-4.90550E-03 +/- 1.6E-04
Phase delay (usec)	-1.17926510490E+03								Resid phdelay (usec)	1.43420E-06 +/- 7.1E-08
Delay rate (us/s)	2.24574766194E-01								Resid rate (us/s)	4.93156E-10 +/- 2.0E-10
Total phase (deg)		-49.0							Resid phase (deg)	44.5 +/- 2.2
	RMS	Theor.	Amplitude	0.780 +/- 0.015					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	62.8	5.3	Search (4096X32)	0.762					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	69.5	9.2	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	14.6	3.1	Inc. seg. avg.	1.308					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	10.0	5.4	Inc. frq. avg.	0.793					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
									nlags: 256	t_cohere infinite
f: az 50.3 el 68.8 pa -114.7			n: az 81.9 el 82.7 pa -91.7							
										simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fn..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fn.W.139.2L2HTN

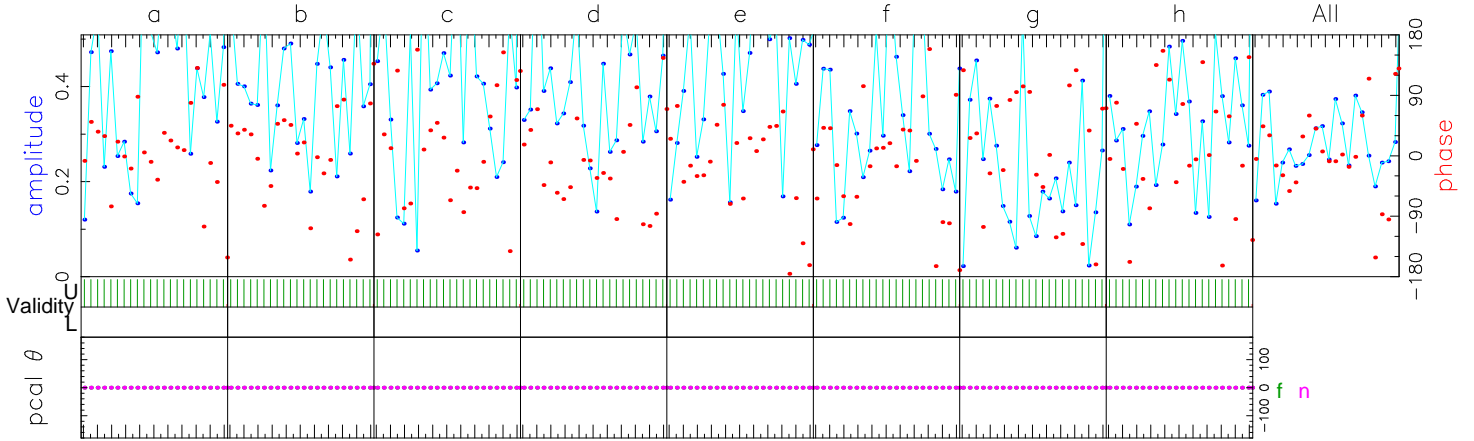


Fringe quality 9

SNR 11.4
Int time 599.444
Amp 0.170
Phase 9.3
PFD 6.3e-21
Delays (us)
SBD -0.005798
MBD -0.005070
Fringe rate (Hz) 0.000169
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build 2023:040:212407
2023:040:232120
2021:252:122852
RA & Dec (J2000) 22h02m43.291370s
+42°16'39.979885"

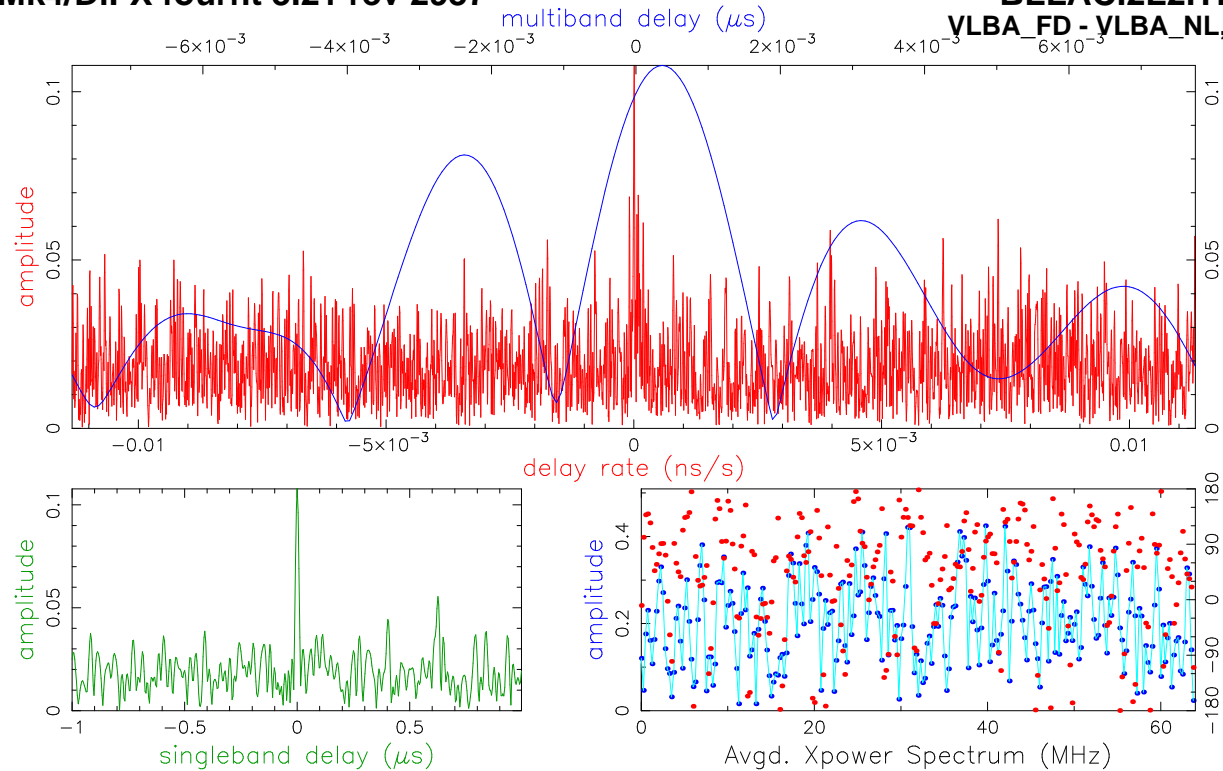
Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0		
f	0	0	0	0	0	0	0	0	APs used	
n	0	0	0	0	0	0	0	0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.17927017640E+03								Resid mbdelay (usec)	-5.07006E-03 +/- 9.6E-05
Sband delay (usec)	-1.17927090434E+03								Resid sbdelay (usec)	-5.79800E-03 +/- 7.6E-04
Phase delay (usec)	-1.17926510604E+03								Resid phdelay (usec)	2.98524E-07 +/- 3.3E-07
Delay rate (us/s)	2.24574767665E-01								Resid rate (us/s)	1.96377E-09 +/- 9.4E-10
Total phase (deg)			-84.3						Resid phase (deg)	9.3 +/- 10.1
	RMS	Theor.	Amplitude	0.170 +/- 0.015					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	63.5	24.2	Search (4096X32)	0.165					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	75.3	42.2	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	22.0	14.3	Inc. seg. avg.	0.254					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	41.2	24.9	Inc. frq. avg.	0.165					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
									nlags: 256	t_cohere infinite

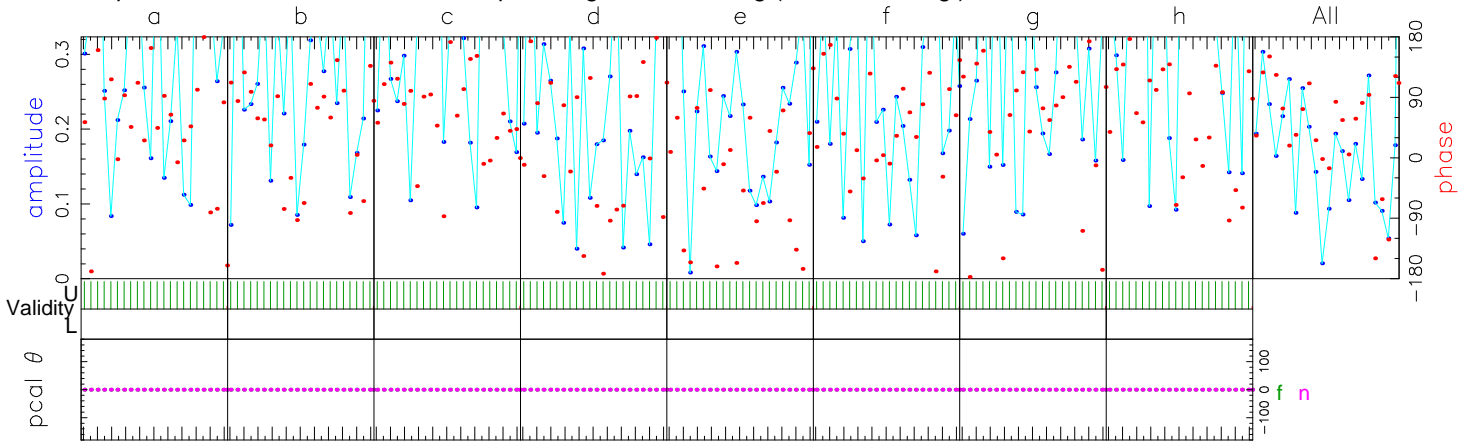
f: az 50.3 el 68.8 pa -114.7 n: az 81.9 el 82.7 pa -91.7 u,v (fr/asec) -1760.550 -1390.418 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fn..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fn.W.156.2L2HTN



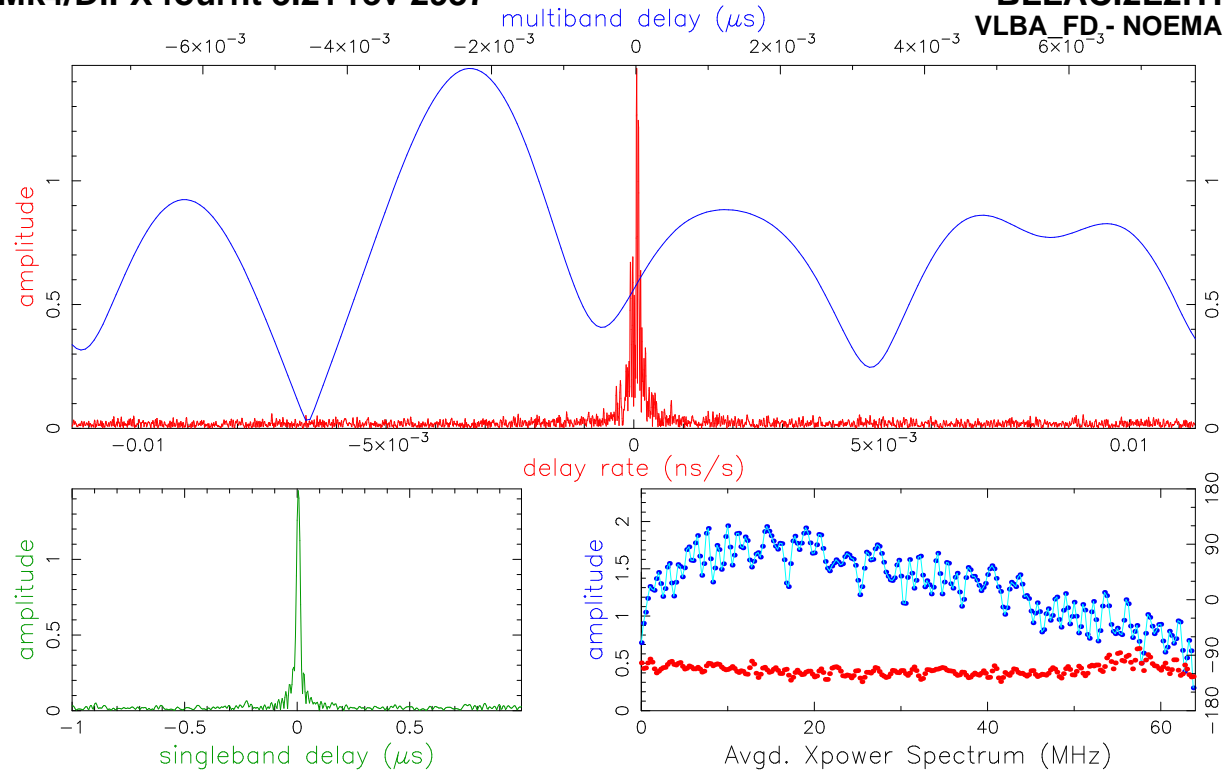
Fringe quality 0
SNR 7.2
Int time 599.444
Amp 0.108
Phase 79.1
PFD 3.3e-04
Delays (us)
SBD -0.000212
MBD 0.000356
Fringe rate (Hz) 0.000655
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232126
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	88.8	81.3	66.3	-123.1	-2.5	78.9	104.2	71.7	Phase	79.1
	0.1	0.2	0.2	0.0	0.0	0.1	0.1	0.2	Ampl.	0.1
	150.9	258.0	256.4	451.3	432.6	424.2	255.4	256.7	Sbd box	256.9
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
n	0	0	0	0	0	0	0	0	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	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
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)	-1.17926474986E+03		Apriori delay (usec)		-1.17926510634E+03		Resid mbdelay (usec)		3.56472E-04	+/- 1.5E-04
Sband delay (usec)	-1.17926531809E+03		Apriori clock (usec)		-3.3351936E+00		Resid sbdelay (usec)		-2.11750E-04	+/- 1.2E-03
Phase delay (usec)	-1.17926510378E+03		Apriori clockrate (us/s)		-3.5875385E-07		Resid phdelay (usec)		2.55110E-06	+/- 5.1E-07
Delay rate (us/s)	2.24574773306E-01		Apriori rate (us/s)		2.24574765701E-01		Resid rate (us/s)		7.60495E-09	+/- 1.5E-09
Total phase (deg)			Apriori accel (us/s/s)		-5.64390141280E-06		Resid phase (deg)		79.1	+/- 15.9

ph/seg (deg) 69.8 38.1 Amplitude 0.108 +/- 0.015 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 92.3 66.4 Interp. 0.105 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 73.6 22.5 Inc. seg. avg. 0.138 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 54.2 39.2 Inc. frq. avg. 0.117 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 50.3 el 68.8 pa -114.7 n: az 81.9 el 82.7 pa -91.7 u, v (fr/asec) -1760.550 -1390.418 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fn..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fn.W.176.2L2HTN

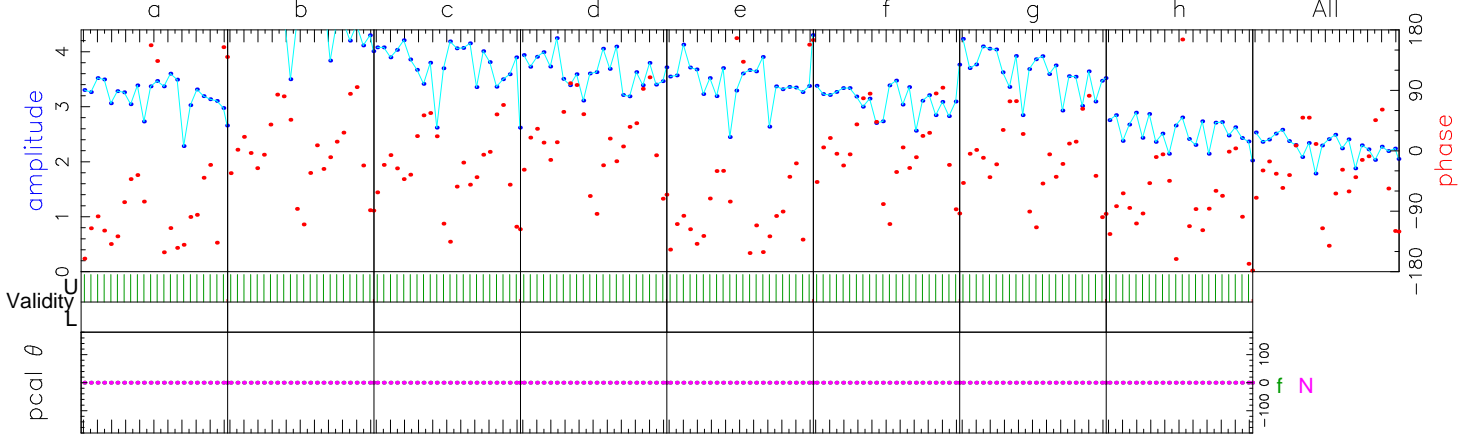


Fringe quality 1

SNR 98.2
Int time 599.469
Amp 1.466
Phase -31.2
PFD 0.0e+00
Delays (us)
SBD 0.005104
MBD -0.002292
Fringe rate (Hz) 0.004689
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232024
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



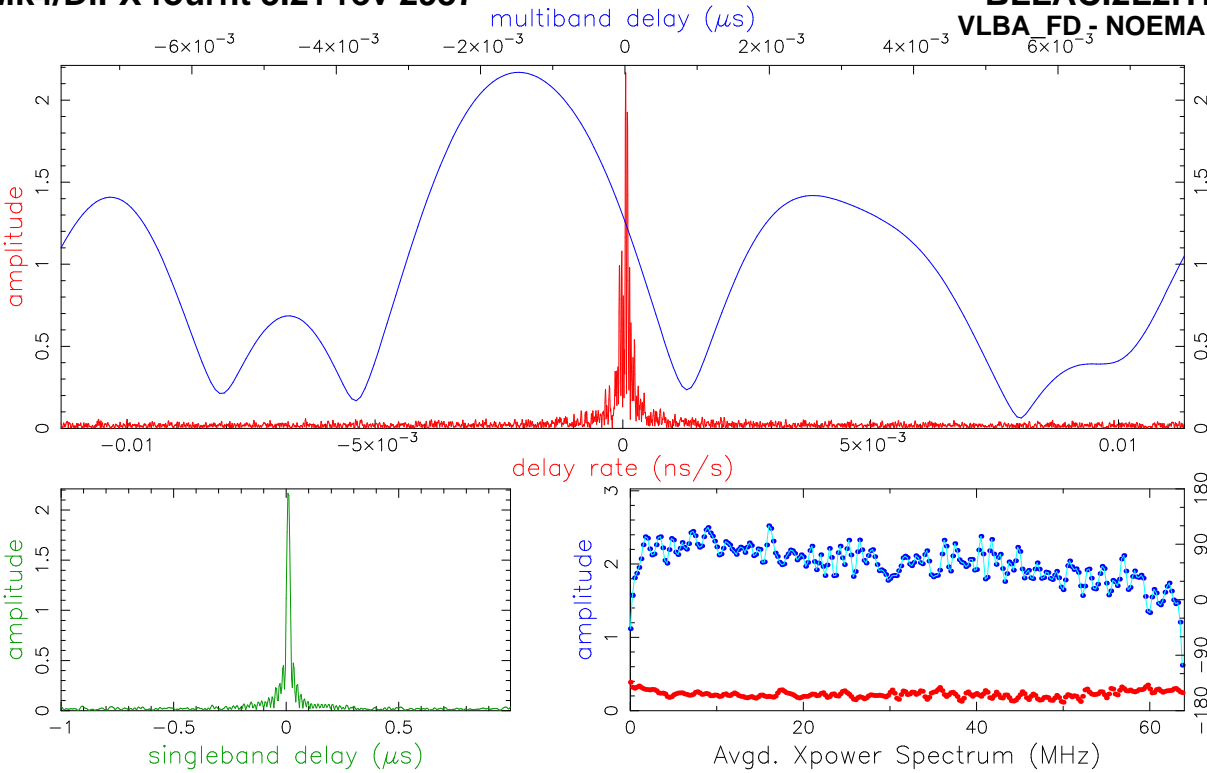
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-116.2	1.8	-23.9	16.0	-113.4	2.3	-11.0	-82.3	Phase	-31.2
	2.0	2.9	2.4	2.3	2.1	2.0	2.3	1.7	Ampl.	2.2
	256.5	258.0	259.0	258.9	258.8	258.9	258.2	256.5	Sbd box	258.3
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	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	

Group delay (usec)(sbd)	9.83395117672E+03	Apriori delay (usec)	9.83395346869E+03	Resid mbdelay (usec)	-2.29197E-03	+/-	1.1E-05
Sband delay (usec)	9.83395857244E+03	Apriori clock (usec)	3.3597466E+01	Resid sbdelay (usec)	5.10375E-03	+/-	8.8E-05
Phase delay (usec)	9.83395346769E+03	Apriori clockrate (us/s)	6.5116159E-08	Resid phdelay (usec)	-1.00542E-06	+/-	3.8E-08
Delay rate (us/s)	1.16200945675E+00	Apriori rate (us/s)	1.16200940232E+00	Resid rate (us/s)	5.44310E-08	+/-	1.1E-10
Total phase (deg)	254.3	Apriori accel (us/s/s)	-6.68022121133E-05	Resid phase (deg)	-31.2	+/-	1.2

ph/seg (deg)	RMS 53.9	Theor. 2.8	Amplitude Search (4096X32)	1.438	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	57.4	4.9	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	59.9	1.7	Inc. seg. avg.	2.282	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s)	-0.011	0.011
amp/frq (%)	55.1	2.9	Inc. frq. avg.	2.201	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 50.3 el 68.8 pa -114.7 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -9226.873 -5856.300 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fN.W.21.2L2HTN

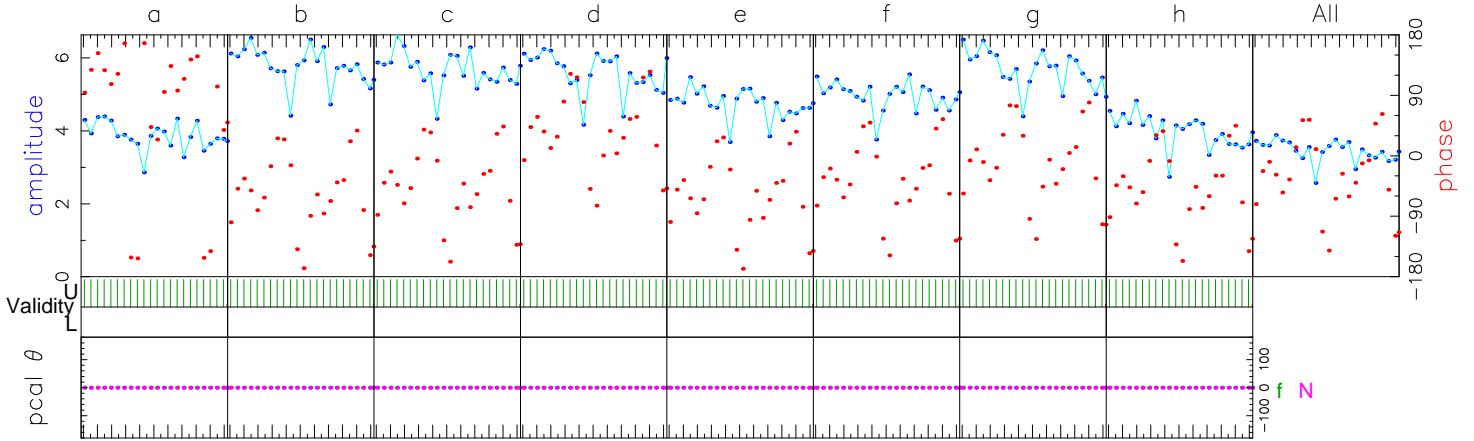


Fringe quality 1

SNR 148.1
Int time 599.469
Amp 2.212
Phase -28.1
PFD 0.0e+00
Delays (us)
SBD 0.009576
MBD -0.001413
Fringe rate (Hz) 0.004731
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

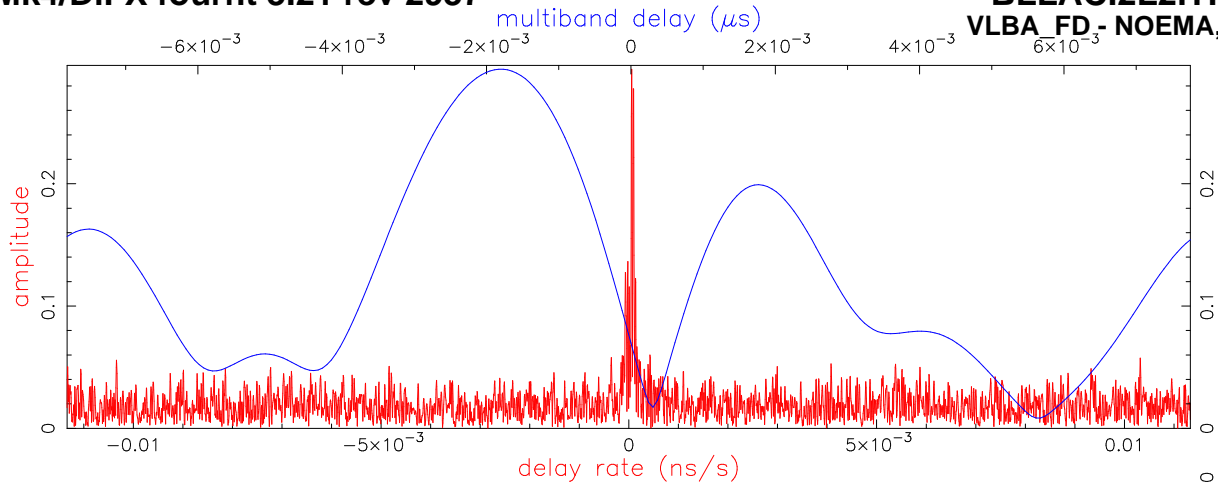
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232031
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



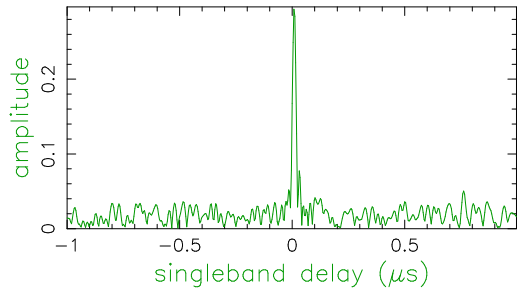
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	128.1	-54.7	-43.8	37.3	-57.6	-35.0	-9.7	-47.6	Phase	-28.1
	2.5	3.6	3.6	3.5	3.0	3.1	3.6	2.5	Ampl.	3.2
	257.1	259.2	259.5	259.6	259.9	259.6	258.8	257.1	Sbd box	259.5
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	9.83396768038E+03		Apriori delay (usec)		9.83395346869E+03		Resid mbdelay (usec)		-1.41331E-03	+/- 7.3E-06
Sband delay (usec)	9.83396304494E+03		Apriori clock (usec)		3.3597466E+01		Resid sbdelay (usec)		9.57625E-03	+/- 5.8E-05
Phase delay (usec)	9.83395346779E+03		Apriori clockrate (us/s)		6.5116159E-08		Resid phdelay (usec)		-9.04990E-07	+/- 2.5E-08
Delay rate (us/s)	1.16200945724E+00		Apriori rate (us/s)		1.16200940232E+00		Resid rate (us/s)		5.49185E-08	+/- 7.2E-11
Total phase (deg)	257.4		Apriori accel (us/s/s)		-6.68022121133E-05		Resid phase (deg)		-28.1	+/- 0.8

ph/seg (deg) 54.6 1.9 Search (4096X32) 2.163 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 57.6 3.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 72.2 1.1 Inc. seg. avg. 3.450 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 47.9 1.9 Inc. frq. avg. 3.175 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 50.3 el 68.8 pa -114.7 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -9226.873 -5856.300 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fN.W.51.2L2HTN

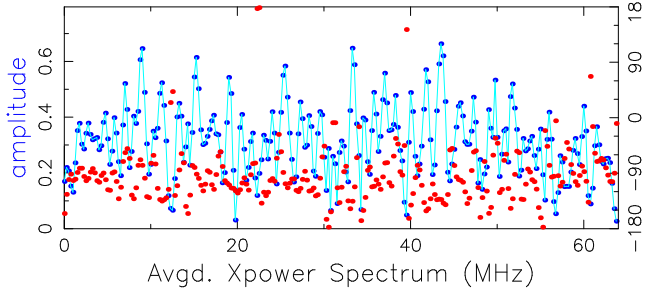


Fringe quality 7

SNR 19.9
Int time 599.469
Amp 0.297
Phase 23.3
PFD 0.0e+00
Delays (us)
SBD 0.009106
MBD -0.001782
Fringe rate (Hz)
0.004733
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

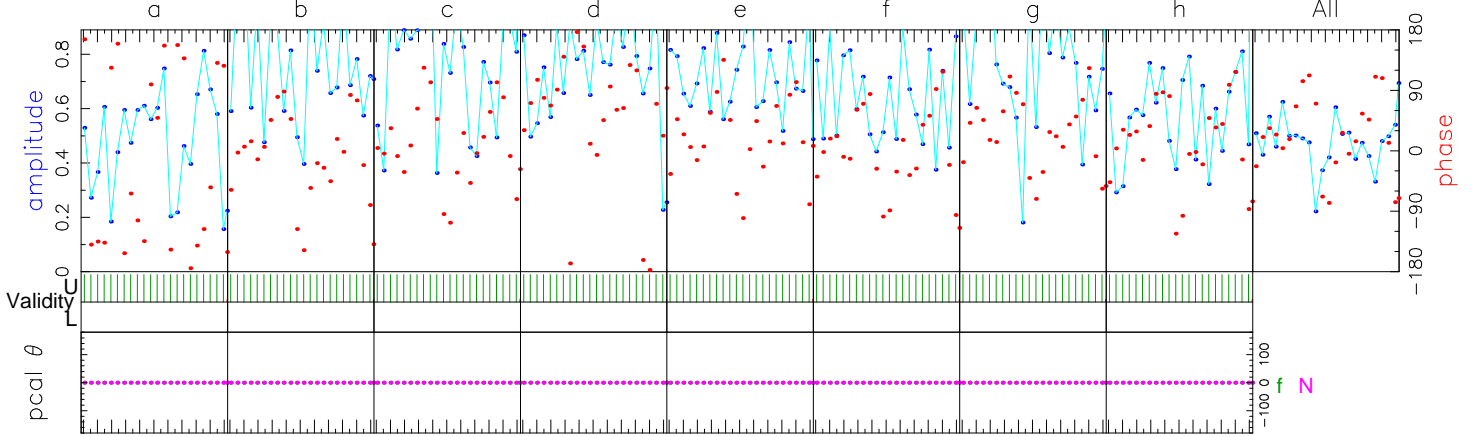


delay rate (ns/s)



Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232038
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



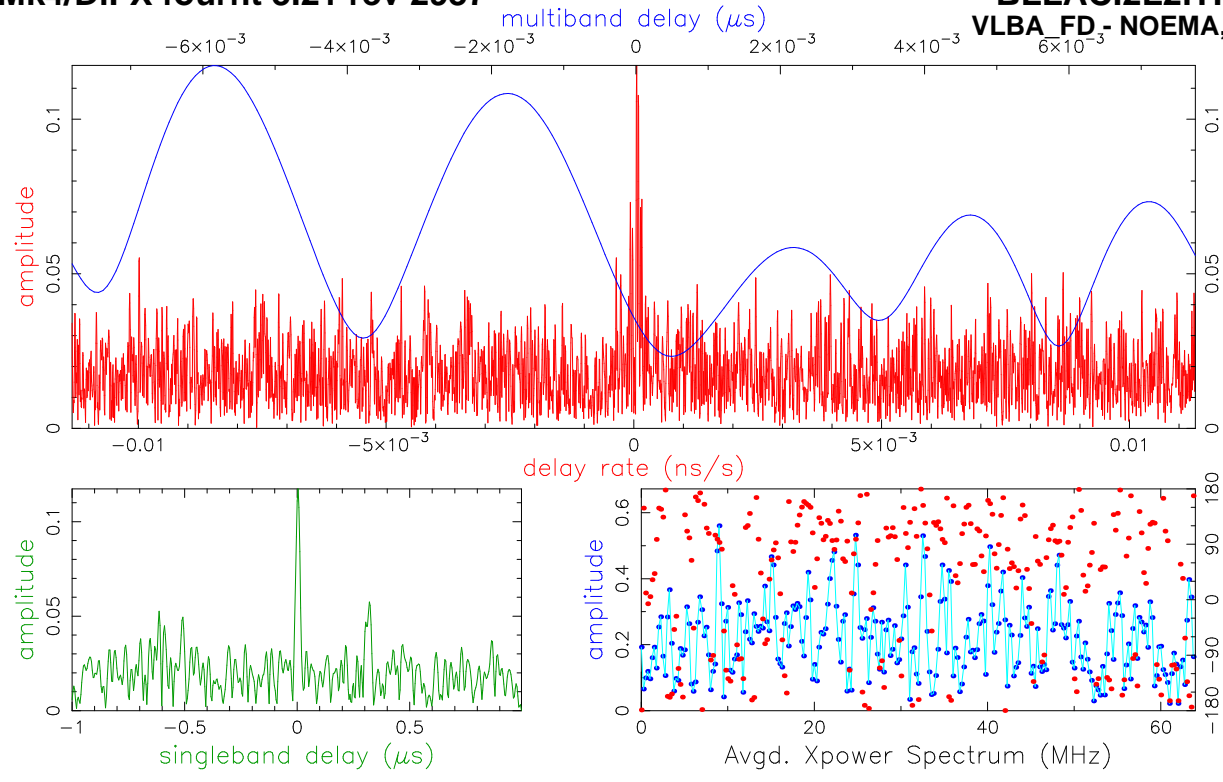
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-162.1	1.5	15.6	94.6	17.9	0.8	22.8	20.4	Phase	23.3
	0.3	0.5	0.4	0.4	0.4	0.4	0.5	0.3	Ampl.	0.4
	257.0	258.6	259.4	259.7	259.7	259.5	259.0	257.1	Sbd box	259.3
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	9.83396731135E+03	Apriori delay (usec)	9.83395346869E+03	Resid mbdelay (usec)	-1.78234E-03	+/-	5.5E-05
Sband delay (usec)	9.83396257444E+03	Apriori clock (usec)	3.3597466E+01	Resid sbdelay (usec)	9.10575E-03	+/-	4.3E-04
Phase delay (usec)	9.83395346944E+03	Apriori clockrate (us/s)	6.5116159E-08	Resid phdelay (usec)	7.50463E-07	+/-	1.9E-07
Delay rate (us/s)	1.16200945727E+00	Apriori rate (us/s)	1.16200940232E+00	Resid rate (us/s)	5.49479E-08	+/-	5.4E-10
Total phase (deg)	308.8	Apriori accel (us/s/s)	-6.68022121133E-05	Resid phase (deg)	23.3	+/-	5.8

ph/seg (deg)	RMS 56.0	Theor. 13.8	Amplitude Search (4096X32)	0.297 +/- 0.015	0.292	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	66.1	24.1	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	78.2	8.2	Inc. seg. avg.	0.459	0.459	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	45.5	14.2	Inc. frq. avg.	0.398	0.398	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 50.3 el 68.8 pa -114.7 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -9226.873 -5856.300 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fN.W.79.2L2HTN

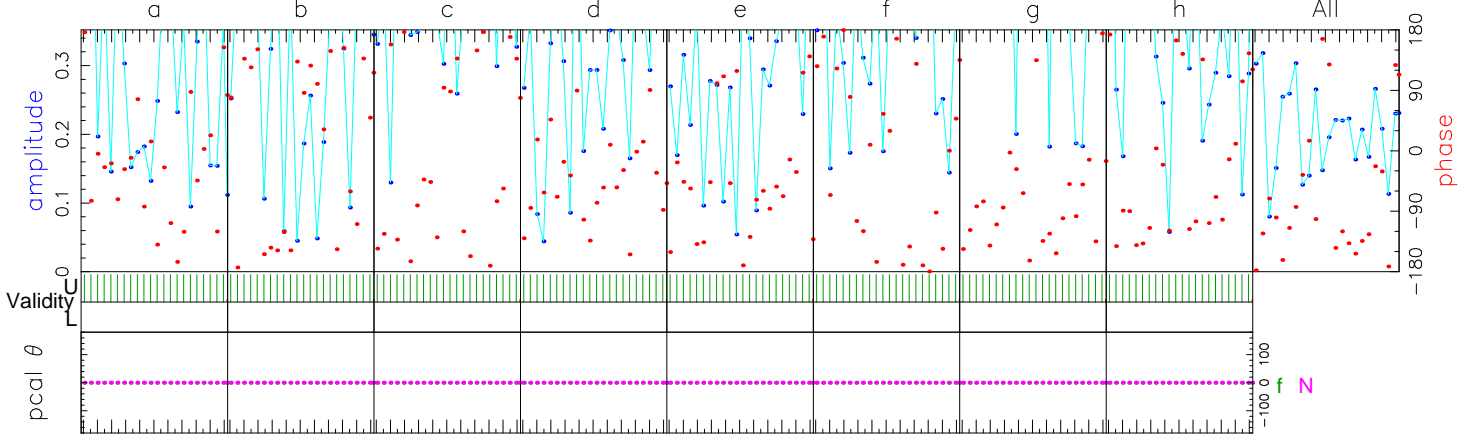


Fringe quality 9

SNR 7.9
Int time 599.469
Amp 0.117
Phase -126.6
PFD 2.6e-06
Delays (us)
SBD 0.003542
MBD -0.005848
Fringe rate (Hz) 0.004707
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232045
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



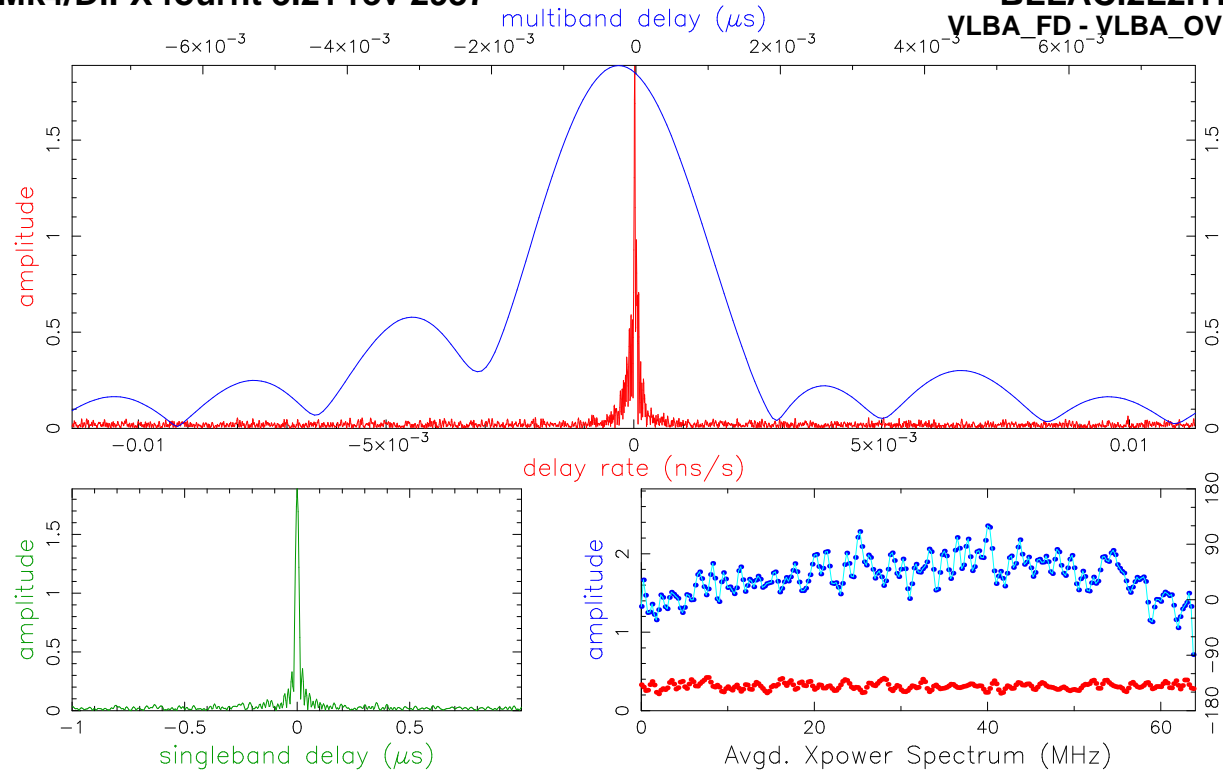
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-61.8	155.7	-156.6	-36.0	-78.8	176.7	-112.8	-129.4	Phase	-126.6
	0.1	0.2	0.2	0.2	0.1	0.2	0.3	0.2	Ampl.	0.2
	109.4	257.9	259.4	258.8	259.8	259.0	258.2	256.4	Sbd box	257.9
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	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	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	9.83396324541E+03	Apriori delay (usec)	9.83395346869E+03	Resid mbdelay (usec)	-5.84828E-03	+/-	1.4E-04
Sband delay (usec)	9.83395701019E+03	Apriori clock (usec)	3.3597466E+01	Resid sbdelay (usec)	3.54150E-03	+/-	1.1E-03
Phase delay (usec)	9.83395346461E+03	Apriori clockrate (us/s)	6.5116159E-08	Resid phdelay (usec)	-4.08409E-06	+/-	4.7E-07
Delay rate (us/s)	1.16200945697E+00	Apriori rate (us/s)	1.16200940232E+00	Resid rate (us/s)	5.46489E-08	+/-	1.4E-09
Total phase (deg)	158.8	Apriori accel (us/s/s)	-6.68022121133E-05	Resid phase (deg)	-126.6	+/-	14.6

ph/seg (deg)	63.8	Theor.	35.0	Search (4096X32)	0.117	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	94.1		61.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	64.6		20.6	Inc. seg. avg.	0.175	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	74.3		36.0	Inc. frq. avg.	0.171	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 50.3 el 68.8 pa -114.7 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -9226.873 -5856.300 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fN.W.98.2L2HTN

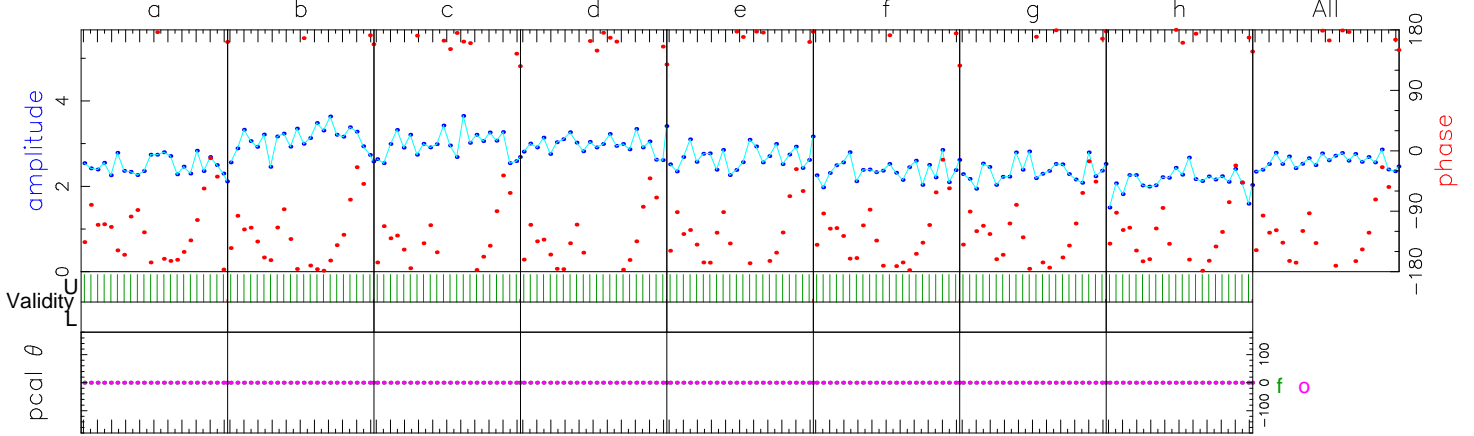


Fringe quality 6

SNR 126.4
Int time 599.469
Amp 1.888
Phase -140.4
PFD 0.0e+00
Delays (us)
SBD -0.000259
MBD -0.000245
Fringe rate (Hz) 0.001211
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232024
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



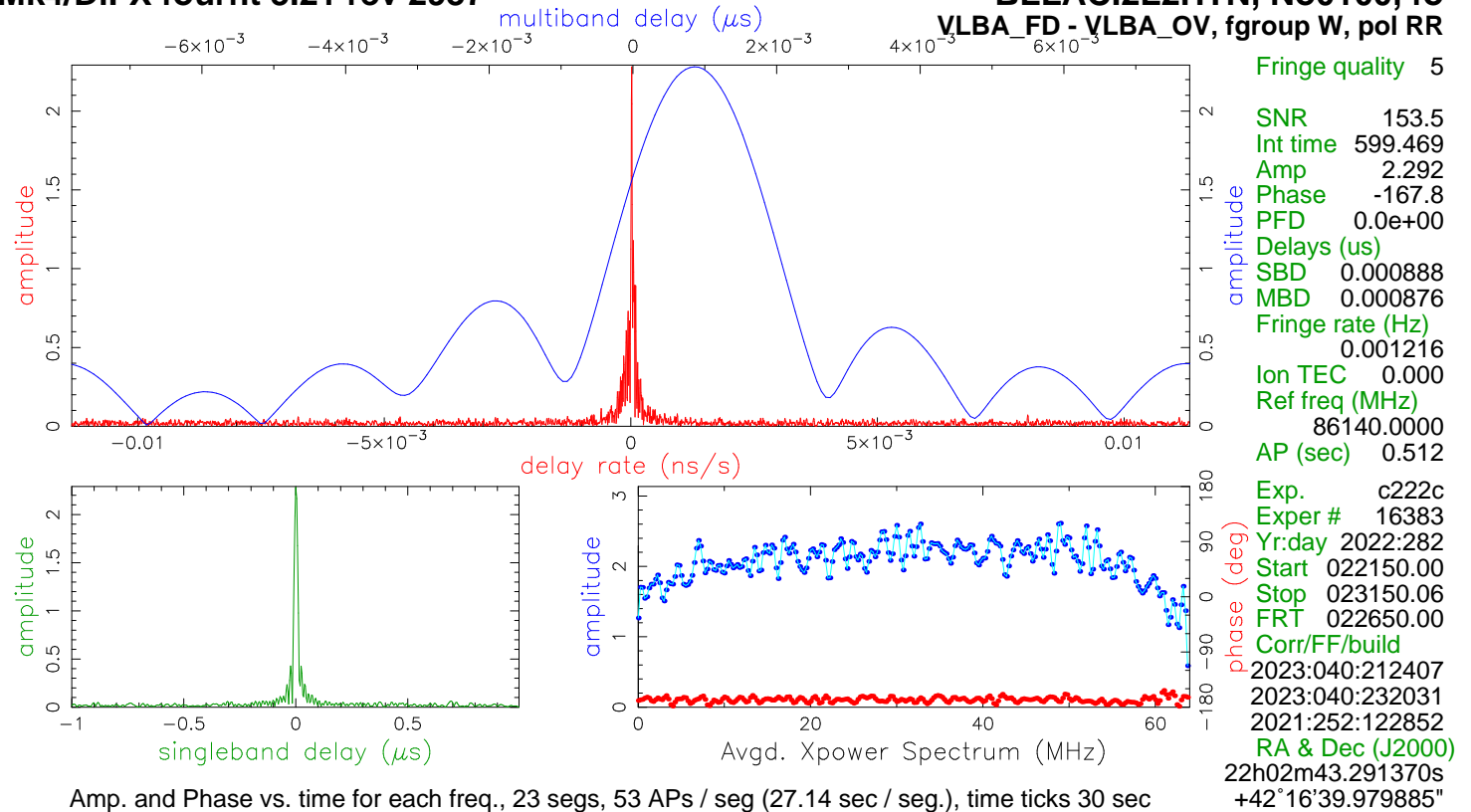
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-126.1	-136.4	-155.5	-154.0	-140.7	-133.6	-132.9	-138.2	Phase	-140.4
	1.8	2.3	2.2	2.2	1.9	1.7	1.7	1.5	Ampl.	1.9
	257.1	256.6	256.9	257.0	257.1	257.1	256.9	257.0	Sbd box	256.9
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fo	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	

Group delay (usec)(sbd)	1.03947942462E+03	Apriori delay (usec)	1.03947966958E+03	Resid mbdelay (usec)	-2.44960E-04	+/-	8.6E-06
Sband delay (usec)	1.03947941083E+03	Apriori clock (usec)	1.1077351E+01	Resid sbdelay (usec)	-2.58750E-04	+/-	6.8E-05
Phase delay (usec)	1.03947966505E+03	Apriori clockrate (us/s)	-2.5940385E-07	Resid phdelay (usec)	-4.52867E-06	+/-	2.9E-08
Delay rate (us/s)	-1.76288767261E-01	Apriori rate (us/s)	-1.76288781314E-01	Resid rate (us/s)	1.40532E-08	+/-	8.4E-11
Total phase (deg)	125.0	Apriori accel (us/s/s)	-1.27229137420E-05	Resid phase (deg)	-140.4	+/-	0.9

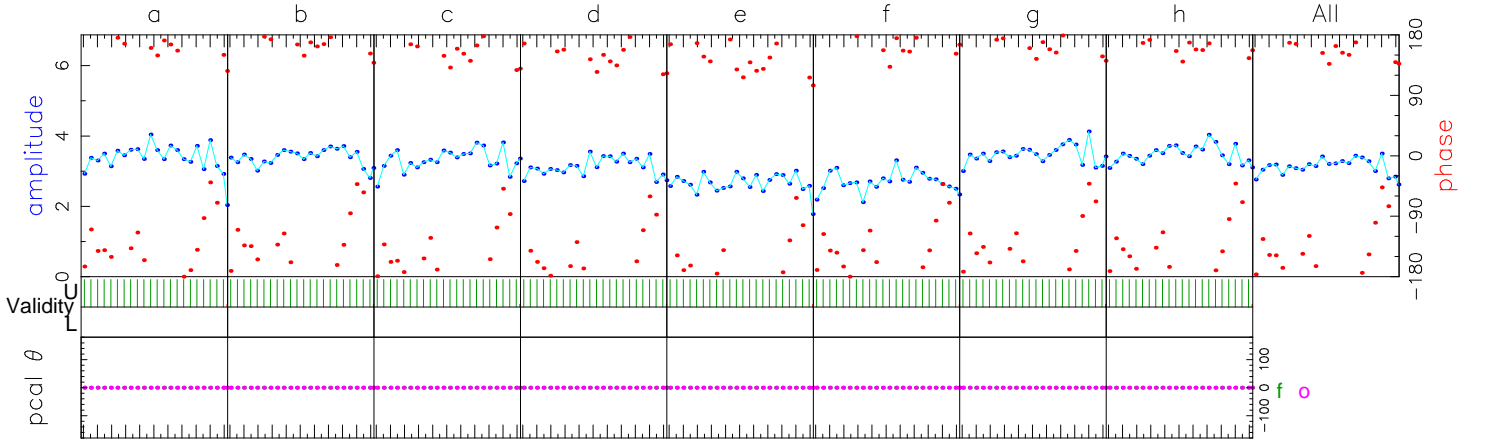
ph/seg (deg)	45.6	RMS	2.2	Theor.	1.888 +/- 0.015	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	38.1		3.8	Search (4096X32)	1.802	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	11.1		1.3	Inc. seg. avg.	2.591	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	14.0		2.2	Inc. frq. avg.	1.916	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 50.3 el 68.8 pa -114.7 o: az 68.0 el 61.7 pa -87.5 u,v (fr/asec) 1323.810 -1565.347 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fo..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fo.W.22.2L2HTN



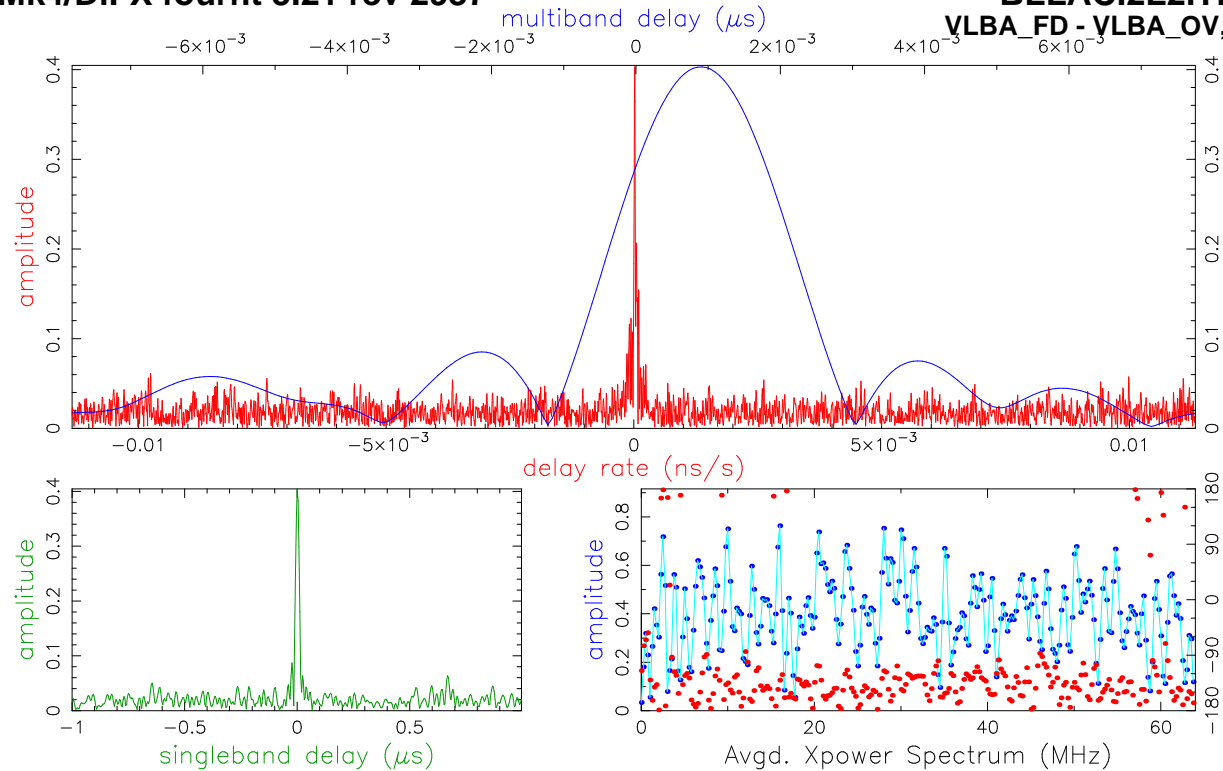
Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-159.1	-156.5	-174.2	179.6	169.2	-161.3	-160.7	-164.7	Phase	-167.8
	2.5	2.5	2.4	2.3	1.9	2.0	2.5	2.5	Ampl.	2.3
	257.4	257.1	257.0	257.1	257.6	257.0	257.2	257.4	Sbd box	257.2
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fo	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.03948054518E+03		Apriori delay (usec)		1.03947966958E+03		Resid mbdelay (usec)		8.75603E-04	+/- 7.1E-06
Sband delay (usec)	1.03948055733E+03		Apriori clock (usec)		1.1077351E+01		Resid sbdelay (usec)		8.87750E-04	+/- 5.6E-05
Phase delay (usec)	1.03947966417E+03		Apriori clockrate (us/s)		-2.5940385E-07		Resid phdelay (usec)		-5.41087E-06	+/- 2.4E-08
Delay rate (us/s)	-1.76288767200E-01		Apriori rate (us/s)		-1.76288781314E-01		Resid rate (us/s)		1.41141E-08	+/- 7.0E-11
Total phase (deg)			Apriori accel (us/s/s)		-1.27229137420E-05		Resid phase (deg)		-167.8	+/- 0.7

	RMS	Theor.	Amplitude	2.292 +/- 0.015	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	46.4	1.8	Search (4096X32)	2.217	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
amp/seg (%)	38.3	3.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
ph/frq (deg)	13.1	1.1	Inc. seg. avg.	3.146	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011		
amp/frq (%)	9.7	1.8	Inc. frq. avg.	2.323	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

f: az 50.3 el 68.8 pa -114.7 o: az 68.0 el 61.7 pa -87.5 u,v (fr/asec) 1323.810 -1565.347 simultaneous interpolator

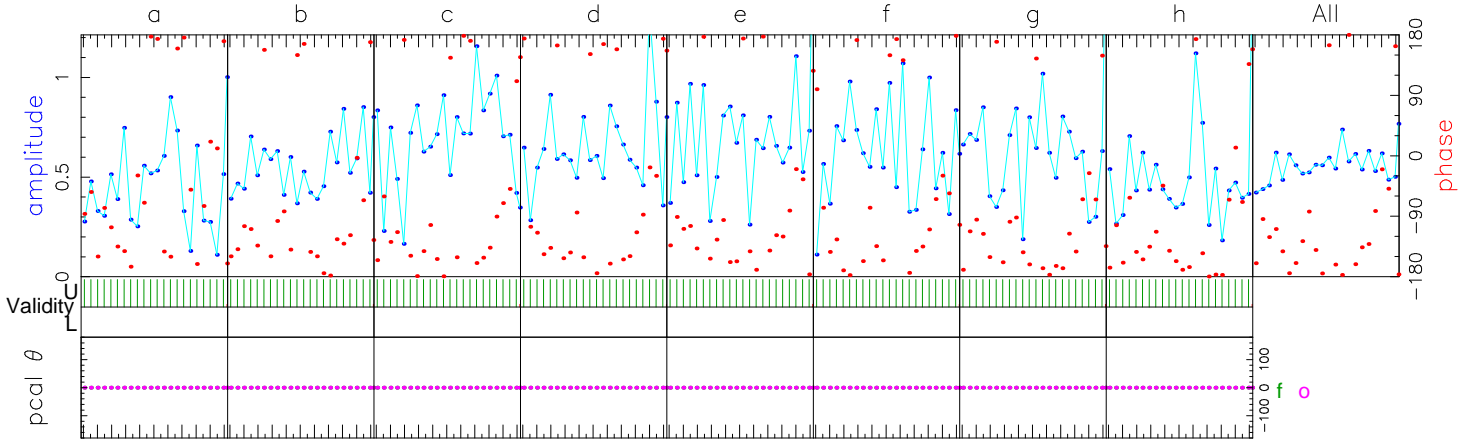


Fringe quality 7

SNR 27.1
 Int time 599.469
 Amp 0.405
 Phase -141.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.000829
 MBD 0.000919
 Fringe rate (Hz) 0.001247
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

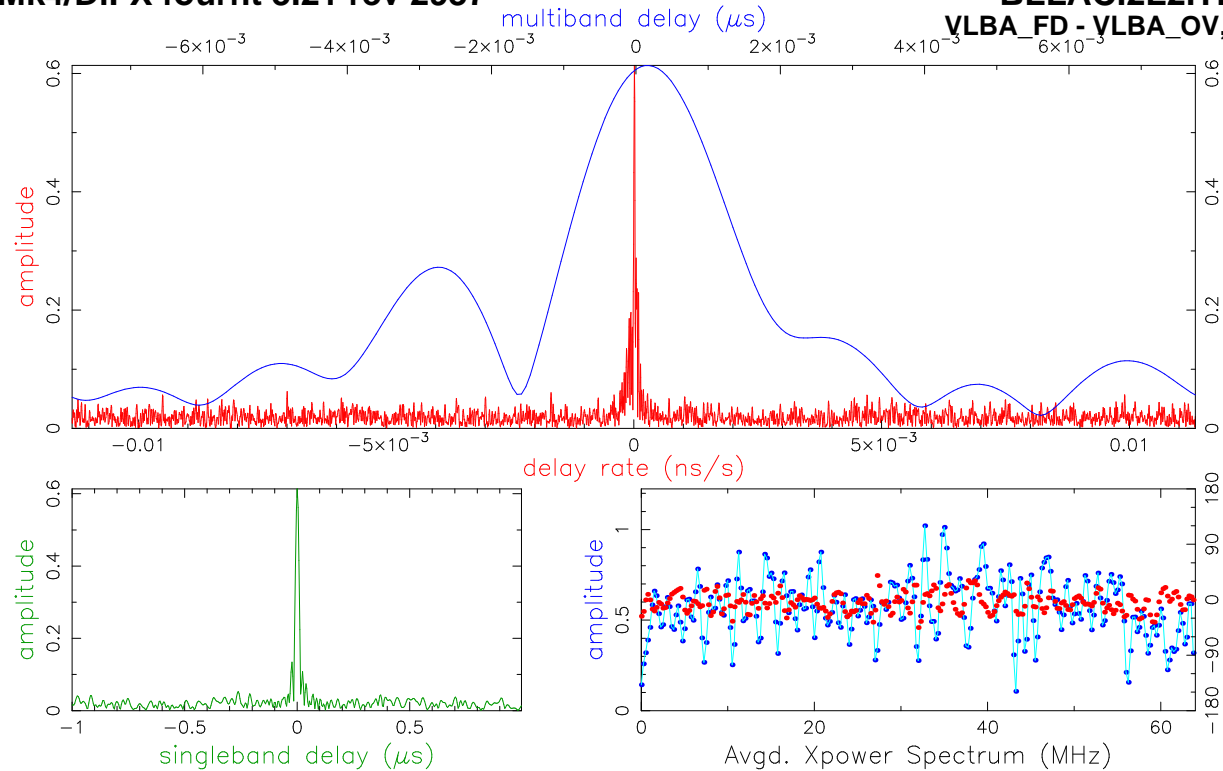
Exp. c222c
 Exper # 16383
 Yr:day 2022:282
 Start 022150.00
 Stop 023150.06
 FRT 022650.00
 Corr/FF/build
 2023:040:212407
 2023:040:232038
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-140.7	-136.3	-146.0	-145.1	-131.5	-151.2	-140.2	-143.8	Phase	-141.8
	0.3	0.4	0.5	0.4	0.5	0.4	0.5	0.3	Ampl.	0.4
	256.7	256.9	257.0	257.3	257.4	257.4	257.4	257.5	Sbd box	257.2
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
f:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fo	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	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)		1.03948058856E+03				1.03947966958E+03			Resid mbdelay (usec)	9.18978E-04 +/- 4.0E-05
Sband delay (usec)		1.03948049808E+03				1.1077351E+01			Resid sbdelay (usec)	8.28500E-04 +/- 3.2E-04
Phase delay (usec)		1.03947966501E+03				-2.5940385E-07			Resid phdelay (usec)	-4.57259E-06 +/- 1.4E-07
Delay rate (us/s)		-1.76288766841E-01				-1.76288781314E-01			Resid rate (us/s)	1.44730E-08 +/- 3.9E-10
Total phase (deg)			123.7			-1.27229137420E-05			Resid phase (deg)	-141.8 +/- 4.2

ph/seg (deg) 46.1 10.1 Search (4096X32) 0.397 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 40.9 17.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 6.6 6.0 Inc. seg. avg. 0.545 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 18.7 10.4 Inc. frq. avg. 0.403 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 50.3 el 68.8 pa -114.7 o: az 68.0 el 61.7 pa -87.5 u, v (fr/asec) 1323.810 -1565.347 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fo..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fo.W.74.2L2HTN

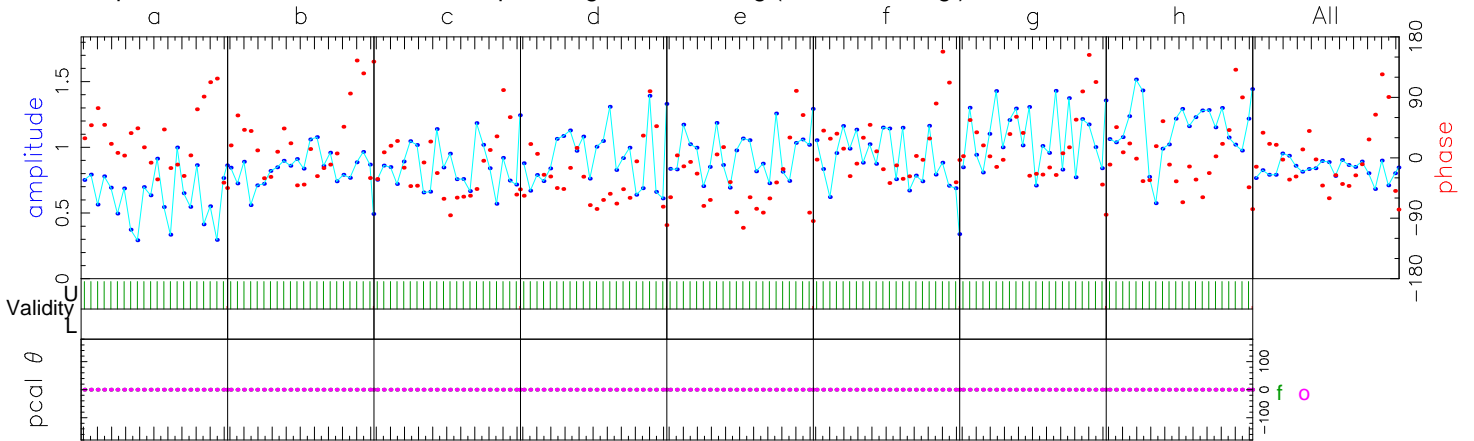


Fringe quality 6

SNR 41.1
Int time 599.469
Amp 0.614
Phase -4.3
PFD 0.0e+00
Delays (us)
SBD 0.000153
MBD 0.000165
Fringe rate (Hz) 0.001189
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

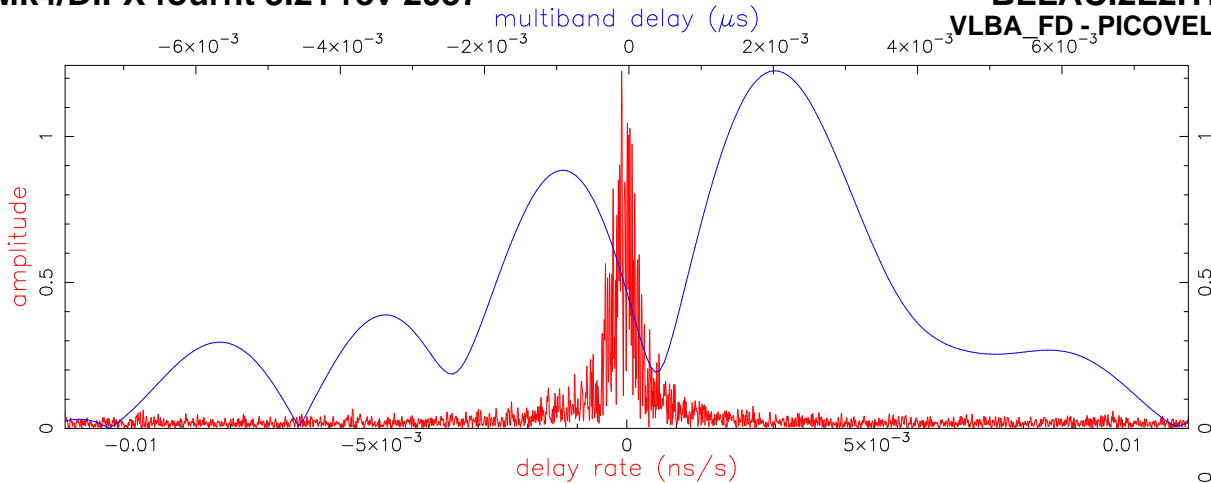
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232045
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



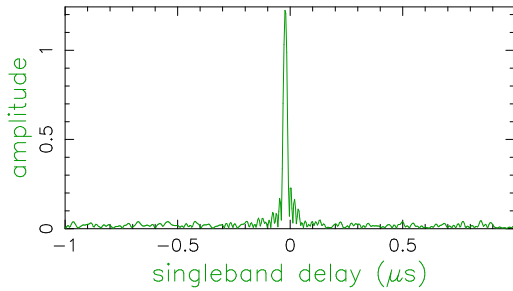
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	21.5	13.0	-19.6	-31.5	-34.4	8.3	17.8	-5.4	Phase	-4.3
	0.5	0.6	0.6	0.7	0.6	0.7	0.7	0.8	Ampl.	0.7
	257.2	256.9	256.6	256.7	257.6	257.6	256.8	256.9	Sbd box	257.0
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
f:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.03947983449E+03		Apriori delay (usec)		1.03947966958E+03		Resid mbdelay (usec)		1.64912E-04	+/- 2.6E-05
Sband delay (usec)	1.03947982233E+03		Apriori clock (usec)		1.1077351E+01		Resid sbdelay (usec)		1.52750E-04	+/- 2.1E-04
Phase delay (usec)	1.03947966944E+03		Apriori clockrate (us/s)		-2.5940385E-07		Resid phdelay (usec)		-1.40249E-07	+/- 9.0E-08
Delay rate (us/s)	-1.76288767511E-01		Apriori rate (us/s)		-1.76288781314E-01		Resid rate (us/s)		1.38034E-08	+/- 2.6E-10
Total phase (deg)	261.1		Apriori accel (us/s/s)		-1.27229137420E-05		Resid phase (deg)		-4.3	+/- 2.8

ph/seg (deg) 46.8 6.7 Search (4096X32) 0.593 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 37.8 11.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 24.1 3.9 Inc. seg. avg. 0.830 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 17.9 6.9 Inc. frq. avg. 0.653 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 50.3 el 68.8 pa -114.7 o: az 68.0 el 61.7 pa -87.5 u,v (fr/asec) 1323.810 -1565.347 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fo..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fo.W.96.2L2HTN

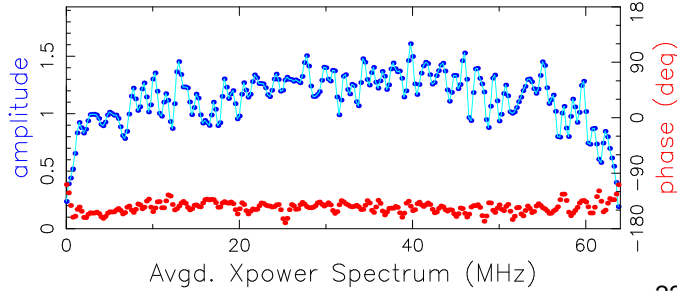


Fringe quality 2

SNR 83.3
Int time 599.469
Amp 1.244
Phase -60.4
PFD 0.0e+00
Delays (us)
SBD -0.021766
MBD 0.002079
Fringe rate (Hz)
-0.008890
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

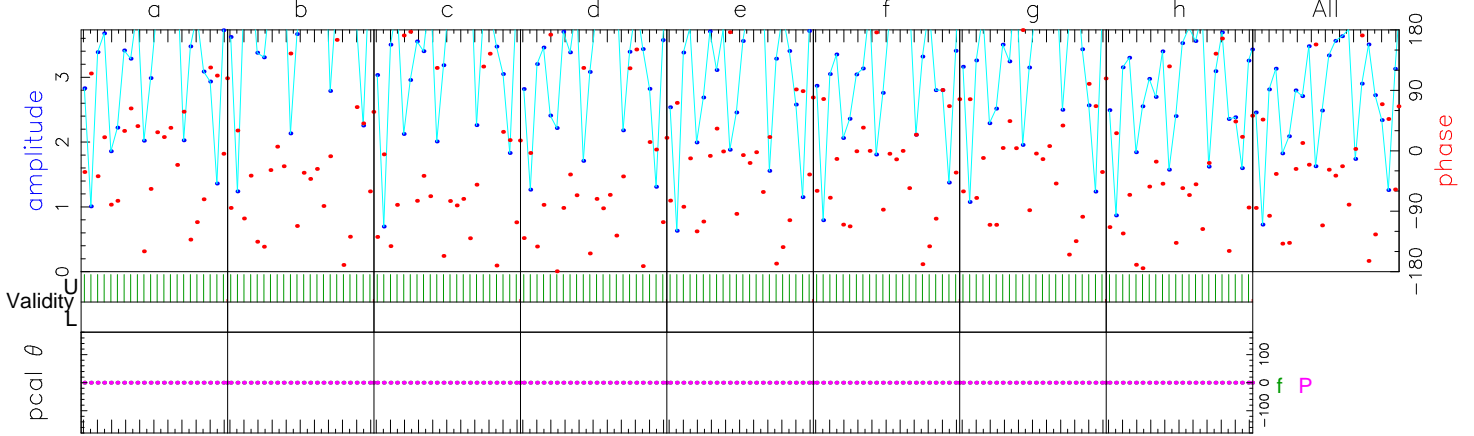


delay rate (ns/s)



Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232114
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

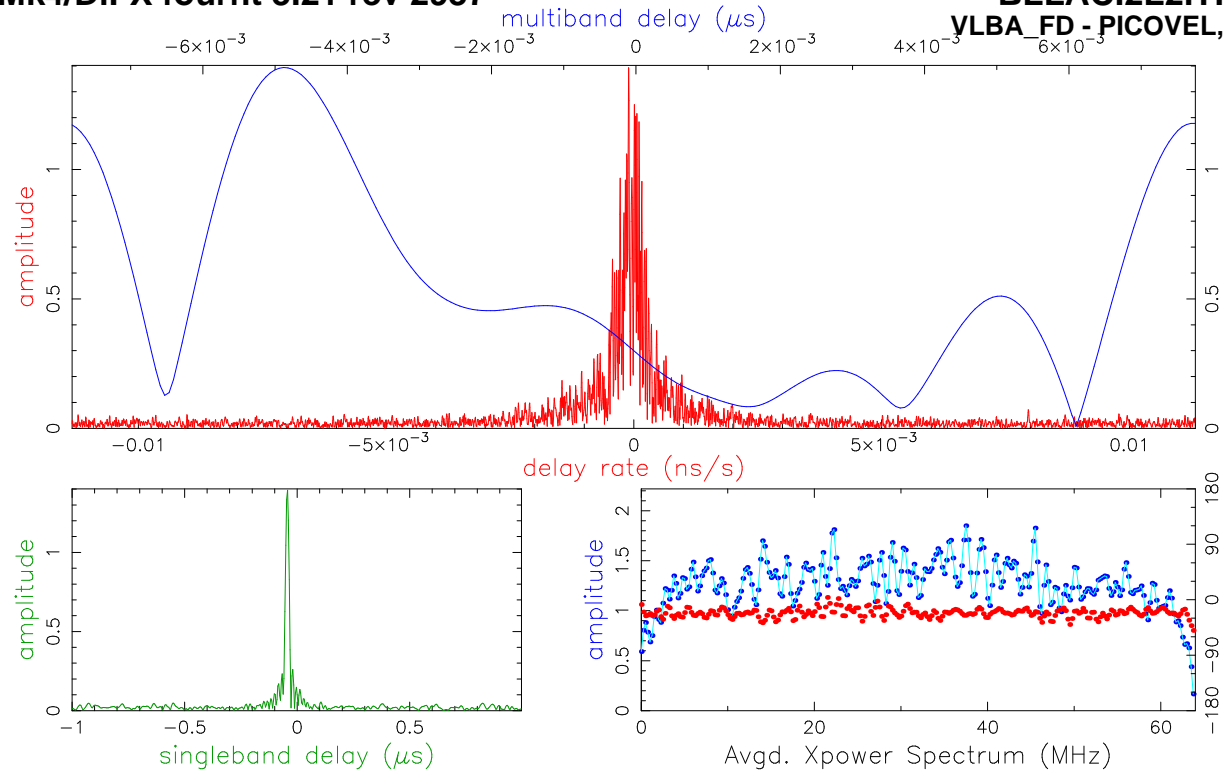


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-2.4	-63.0	-107.6	-105.8	-43.4	-34.6	-35.0	-89.6	Phase	-60.4
	1.5	1.9	1.6	1.5	1.4	1.4	1.5	1.2	Ampl.	1.5
	249.8	251.0	251.5	251.8	251.8	251.8	251.4	249.9	Sbd box	251.4
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
f:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	9.20859978461E+03	Apriori delay (usec)	9.20862895535E+03	Resid mbdelay (usec)	2.07926E-03	+/-	1.3E-05
Sband delay (usec)	9.20860718985E+03	Apriori clock (usec)	2.1484875E+01	Resid sbdelay (usec)	-2.17655E-02	+/-	1.0E-04
Phase delay (usec)	9.20862895340E+03	Apriori clockrate (us/s)	2.7501615E-07	Resid phdelay (usec)	-1.94806E-06	+/-	4.4E-08
Delay rate (us/s)	1.24716831163E+00	Apriori rate (us/s)	1.24716841483E+00	Resid rate (us/s)	-1.03199E-07	+/-	1.3E-10
Total phase (deg)	16.6	Apriori accel (us/s/s)	-5.59441206735E-05	Resid phase (deg)	-60.4	+/-	1.4

ph/seg (deg)	RMS 75.2	Theor. 3.3	Amplitude Search (4096X32)	1.244 +/- 0.015	1.201	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	129.6	5.8	Interp.	0.000	1.201	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	41.1	1.9	Inc. seg. avg.	2.637	1.201	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	24.7	3.4	Inc. frq. avg.	1.491	1.491	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00
f: az 50.3 el 68.8 pa -114.7	P: az 301.8 el 31.7 pa 67.4		u, v (fr/asec) -9850.429 -4410.334				simultaneous interpolator				

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fP..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fP.W.128.2L2HTN

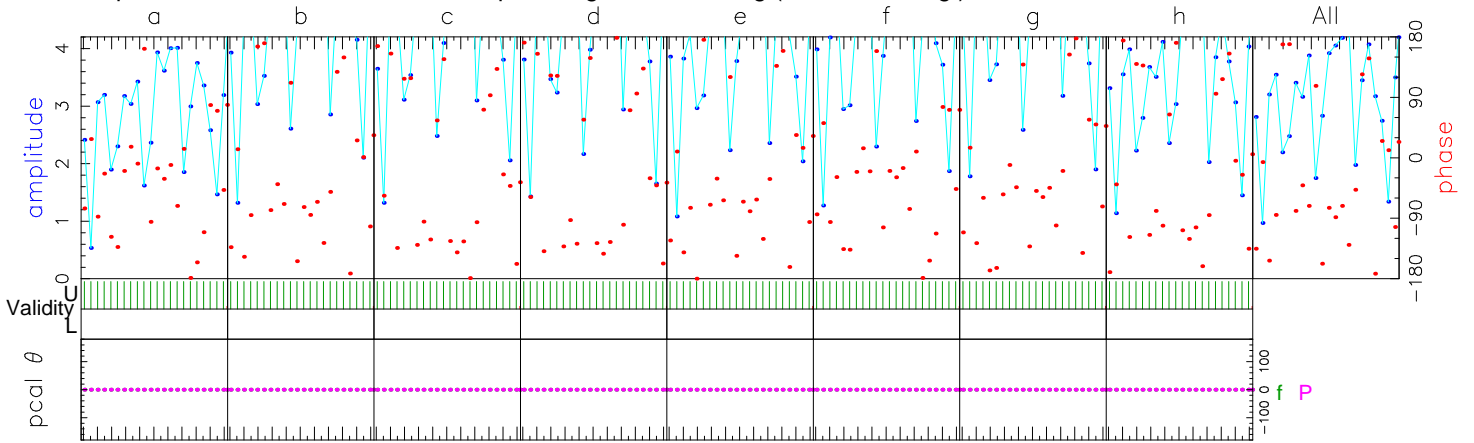


Fringe quality 2

SNR 93.9
Int time 599.469
Amp 1.402
Phase -111.5
PFD 0.0e+00
Delays (us)
SBD -0.044007
MBD -0.004914
Fringe rate (Hz)
-0.008875
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232120
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

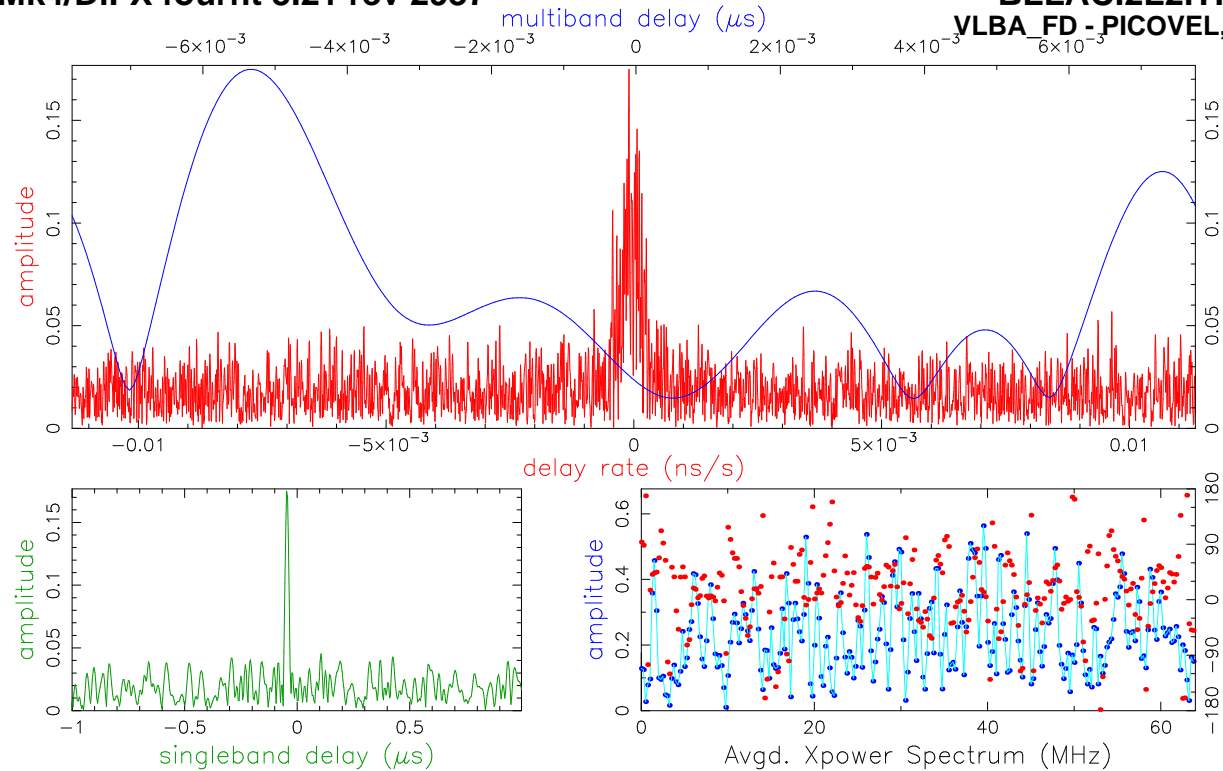


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-49.9	-109.6	-163.7	-165.7	-103.0	-54.7	-84.3	-144.5	Phase	-111.5
	1.3	2.0	2.0	2.0	1.8	1.9	2.2	1.6	Ampl.	1.9
	243.7	245.4	245.4	245.8	246.6	245.7	245.3	243.8	Sbd box	245.7
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
f:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	9.20857716633E+03		Apriori delay (usec)		9.2086289535E+03		Resid mbdelay (usec)		-4.91403E-03	+/- 1.2E-05
Sband delay (usec)	9.20858494785E+03		Apriori clock (usec)		2.1484875E+01		Resid sbdelay (usec)		-4.40075E-02	+/- 9.2E-05
Phase delay (usec)	9.20862895176E+03		Apriori clockrate (us/s)		2.7501615E-07		Resid phdelay (usec)		-3.59406E-06	+/- 3.9E-08
Delay rate (us/s)	1.24716831180E+00		Apriori rate (us/s)		1.24716841483E+00		Resid rate (us/s)		-1.03031E-07	+/- 1.1E-10
Total phase (deg)			Apriori accel (us/s/s)		-5.59441206735E-05		Resid phase (deg)		-111.5	+/- 1.2

ph/seg (deg) RMS Theor. Amplitude 1.402 +/- 0.015 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 76.5 2.9 Search (4096X32) 1.370 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 135.6 5.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 49.3 1.7 Inc. seg. avg. 3.054 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 37.2 3.0 Inc. frq. avg. 1.852 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

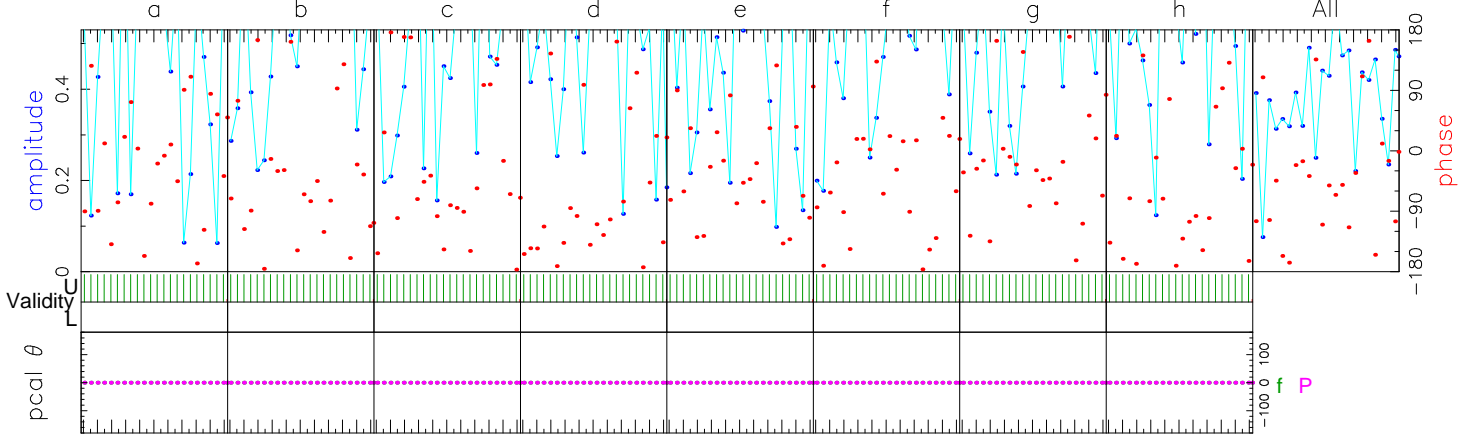
f: az 50.3 el 68.8 pa -114.7 P: az 301.8 el 31.7 pa 67.4 u,v (fr/asec) -9850.429 -4410.334 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fP..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fP.W.150.2L2HTN



Fringe quality 9
 SNR 11.8
 Int time 599.469
 Amp 0.177
 Phase -83.5
 PFD 2.6e-23
 Delays (us)
 SBD -0.045495
 MBD -0.005298
 Fringe rate (Hz)
 -0.008591
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c222c
 Exper # 16383
 Yr:day 2022:282
 Start 022150.00
 Stop 023150.06
 FRT 022650.00
 Corr/FF/build
 2023:040:212407
 2023:040:232126
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

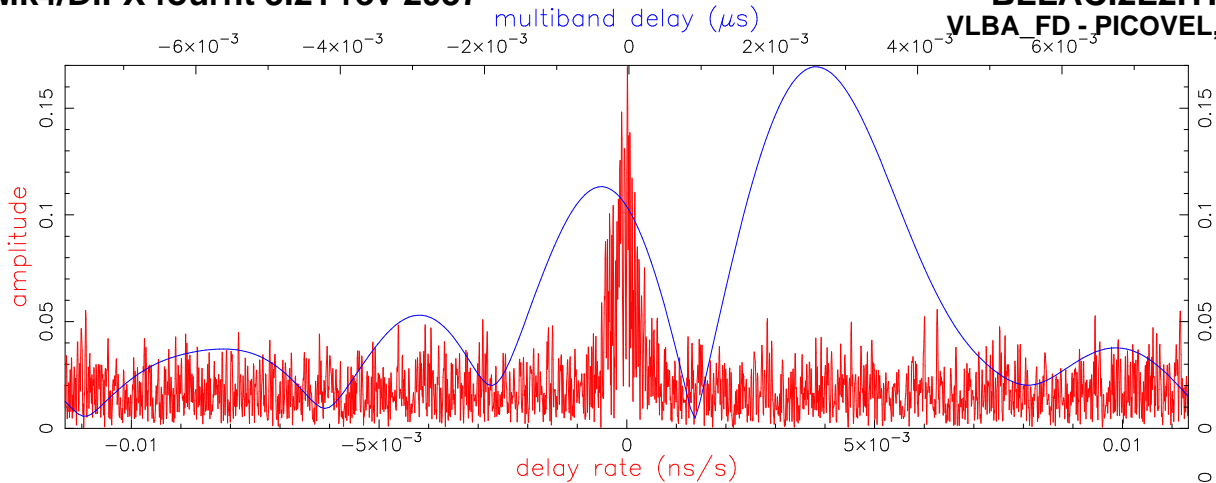


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-40.4	-87.8	-112.2	-136.9	-61.7	-37.4	-52.5	-140.3	Phase	-83.5
	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	Ampl.	0.2
	244.0	245.0	246.2	245.6	245.6	245.1	245.0	244.4	Sbd box	245.4
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
f:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

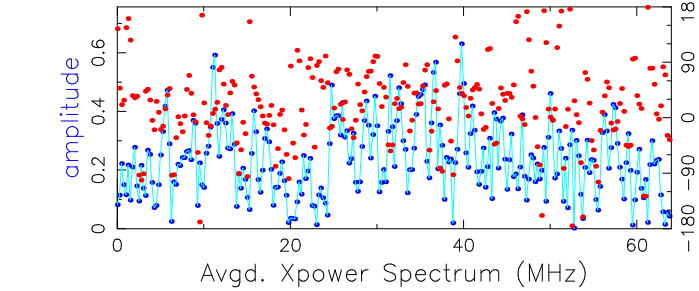
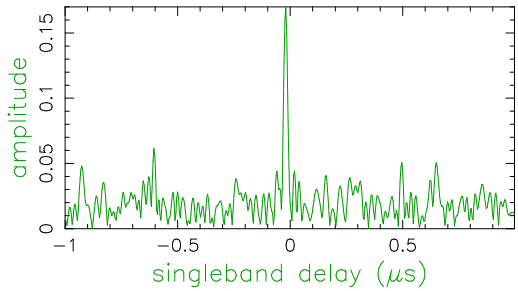
Group delay (usec)(sbd)	9.20857678233E+03	Apriori delay (usec)	9.20862895535E+03	Resid mbdelay (usec)	-5.29802E-03	+/-	9.2E-05
Sband delay (usec)	9.20858346085E+03	Apriori clock (usec)	2.1484875E+01	Resid sbdelay (usec)	-4.54945E-02	+/-	7.3E-04
Phase delay (usec)	9.20862895266E+03	Apriori clockrate (us/s)	2.7501615E-07	Resid phdelay (usec)	-2.69200E-06	+/-	3.1E-07
Delay rate (us/s)	1.24716831509E+00	Apriori rate (us/s)	1.24716841483E+00	Resid rate (us/s)	-9.97376E-08	+/-	9.0E-10
Total phase (deg)	-6.4	Apriori accel (us/s/s)	-5.59441206735E-05	Resid phase (deg)	-83.5	+/-	9.7

ph/seg (deg)	RMS 79.5	Theor. 23.2	Amplitude Search (4096X32)	0.174	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	131.0	40.5	Interp.	0.000	PCal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	45.3	13.7	Inc. seg. avg.	0.349	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	34.3	23.9	Inc. frq. avg.	0.217	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

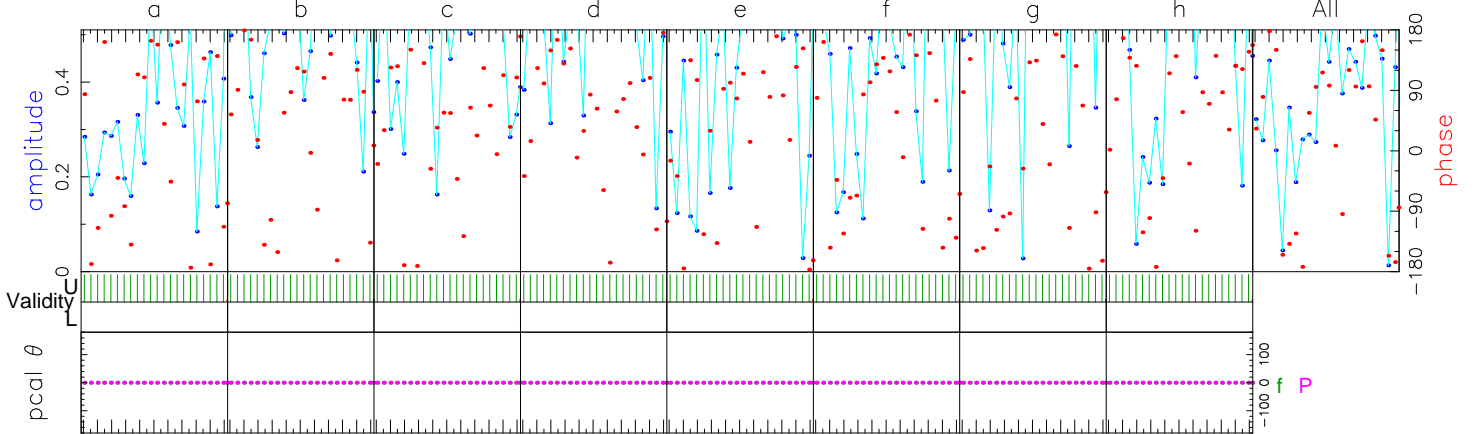
f: az 50.3 el 68.8 pa -114.7 P: az 301.8 el 31.7 pa 67.4 u, v (fr/asec) -9850.429 -4410.334 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fP..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fP.W.175.2L2HTN



Fringe quality 9
SNR 11.4
Int time 599.469
Amp 0.170
Phase 119.7
PFD 4.8e-21
Delays (us)
SBD -0.020361
MBD 0.002580
Fringe rate (Hz) 0.001053
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232131
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"



Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



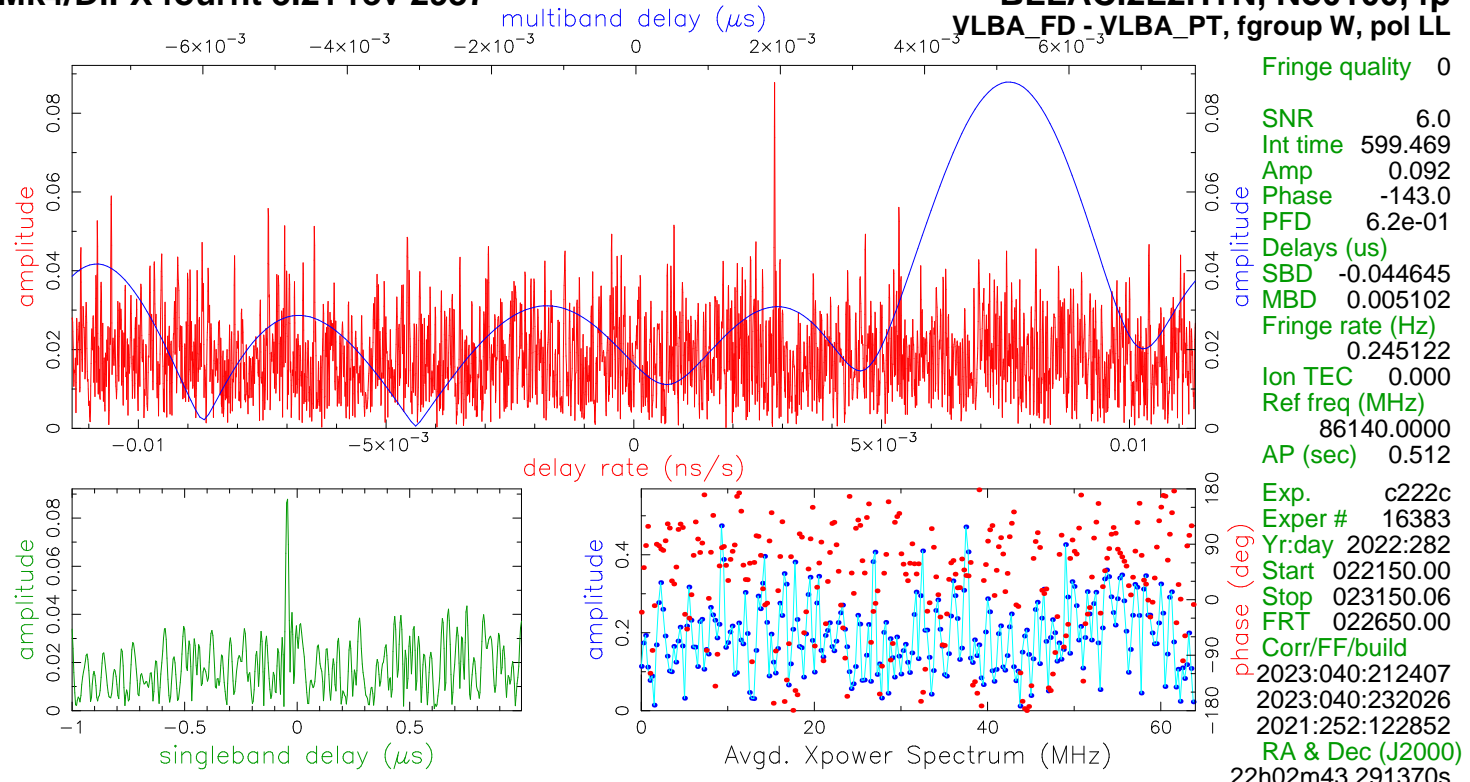
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	168.8	131.9	73.1	90.5	118.1	151.4	152.2	99.2	Phase	119.7
	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.3	Ampl.	0.2
	249.5	251.4	251.4	252.2	490.8	251.7	251.1	250.8	Sbd box	251.8
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
f:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	9.20861591017E+03	Apriori delay (usec)	9.20862895535E+03	Resid mbdelay (usec)	2.57982E-03	+/-	9.5E-05
Sband delay (usec)	9.20860859435E+03	Apriori clock (usec)	2.1484875E+01	Resid sbdelay (usec)	-2.03610E-02	+/-	7.6E-04
Phase delay (usec)	9.20862895921E+03	Apriori clockrate (us/s)	2.7501615E-07	Resid phdelay (usec)	3.85905E-06	+/-	3.2E-07
Delay rate (us/s)	1.24716842706E+00	Apriori rate (us/s)	1.24716841483E+00	Resid rate (us/s)	1.22258E-08	+/-	9.4E-10
Total phase (deg)	196.7	Apriori accel (us/s/s)	-5.59441206735E-05	Resid phase (deg)	119.7	+/-	10.1

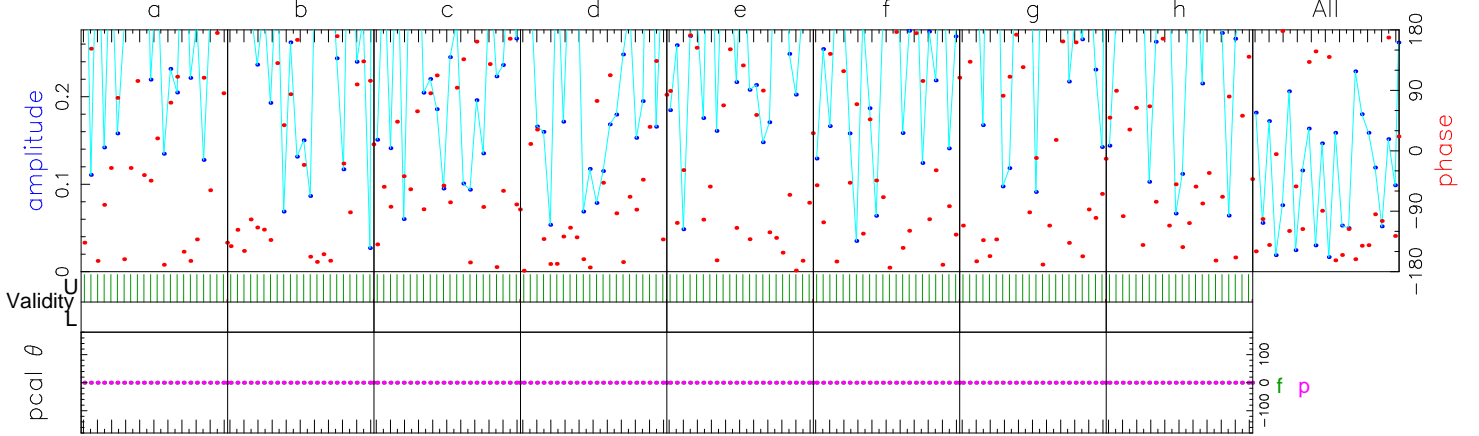
ph/seg (deg)	RMS 71.4	Theor. 24.1	Amplitude Search (4096X32)	0.170 +/- 0.015	0.167	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	143.5	42.1	Interp.	0.000	0.167	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
ph/frq (deg)	36.7	14.2	Inc. seg. avg.	0.333	0.333	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
amp/frq (%)	32.8	24.8	Inc. frq. avg.	0.191	0.191	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011		
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

f: az 50.3 el 68.8 pa -114.7 P: az 301.8 el 31.7 pa 67.4 u,v (fr/asec) -9850.429 -4410.334 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fP..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fP.W.195.2L2HTN

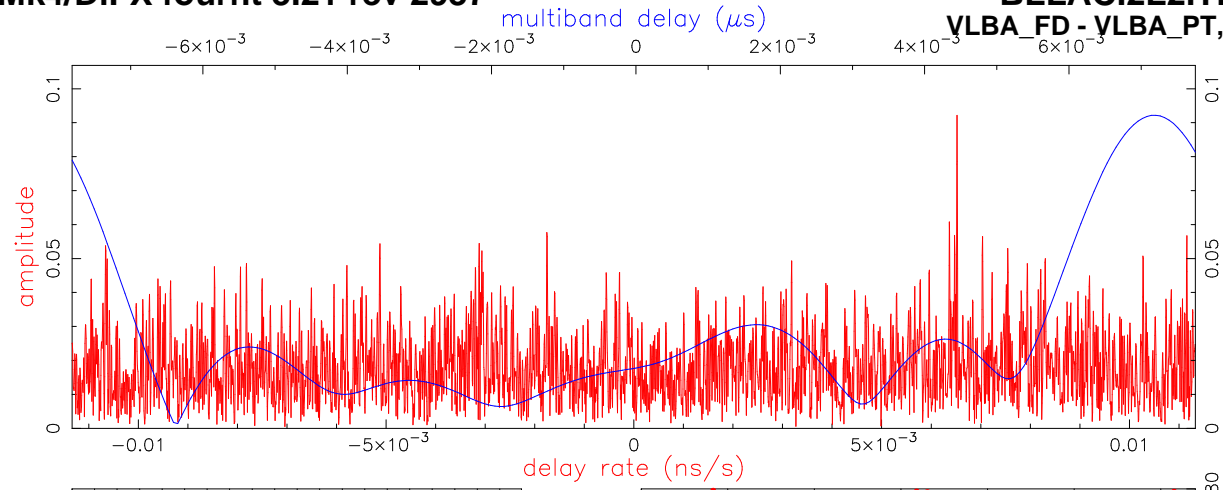


Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

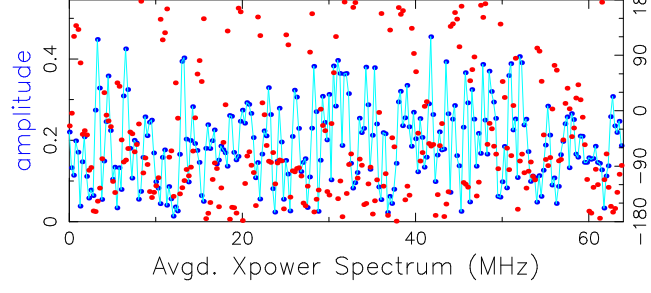
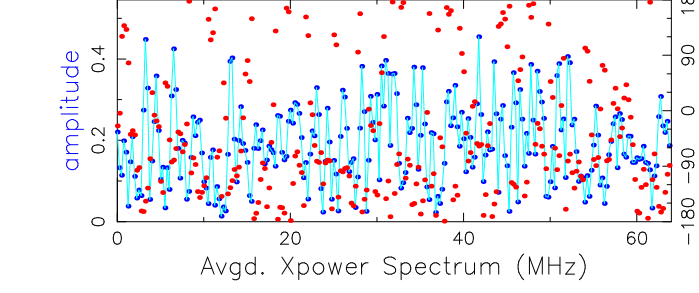
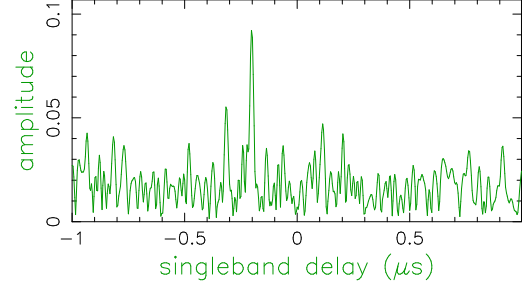


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-139.2	-151.6	-86.6	-132.0	-151.9	-146.2	-152.5	-83.4	Phase	-143.0
	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.1	Ampl.	0.1
	281.9	463.0	32.5	296.1	403.8	75.2	245.4	254.3	Sbd box	245.6
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.33956607247E+02		Apriori delay (usec)		1.33998380572E+02		Resid mbdelay (usec)		5.10167E-03	+/- 1.8E-04
Sband delay (usec)	1.33953735322E+02		Apriori clock (usec)		4.0956474E+01		Resid sbdelay (usec)		-4.46452E-02	+/- 1.4E-03
Phase delay (usec)	1.33998375960E+02		Apriori clockrate (us/s)		3.1316160E-08		Resid phdelay (usec)		-4.61266E-06	+/- 6.1E-07
Delay rate (us/s)	-5.01001202750E-02		Apriori rate (us/s)		-5.01029659027E-02		Resid rate (us/s)		2.84563E-06	+/- 1.8E-09
Total phase (deg)	37.9		Apriori accel (us/s/s)		-4.60173561121E-06		Resid phase (deg)		-143.0	+/- 19.1

	RMS	Theor.	Amplitude	0.092 +/- 0.015	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	53.5	45.7	Search (4096X32)	0.087	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	77.4	79.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	34.5	27.0	Inc. seg. avg.	0.088	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	56.7	47.1	Inc. frq. avg.	0.086	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

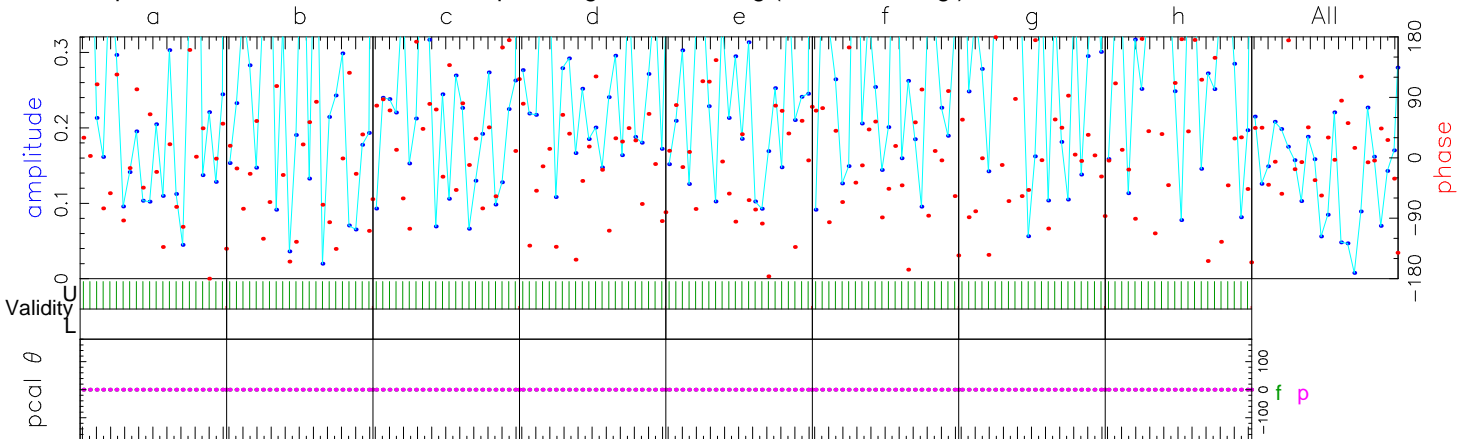


Fringe quality 0
SNR 6.2
Int time 599.469
Amp 0.107
Phase 2.4
PFD 2.4e-01
Delays (us)
SBD -0.201998
MBD 0.007208
Fringe rate (Hz) 0.562384
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232032
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"



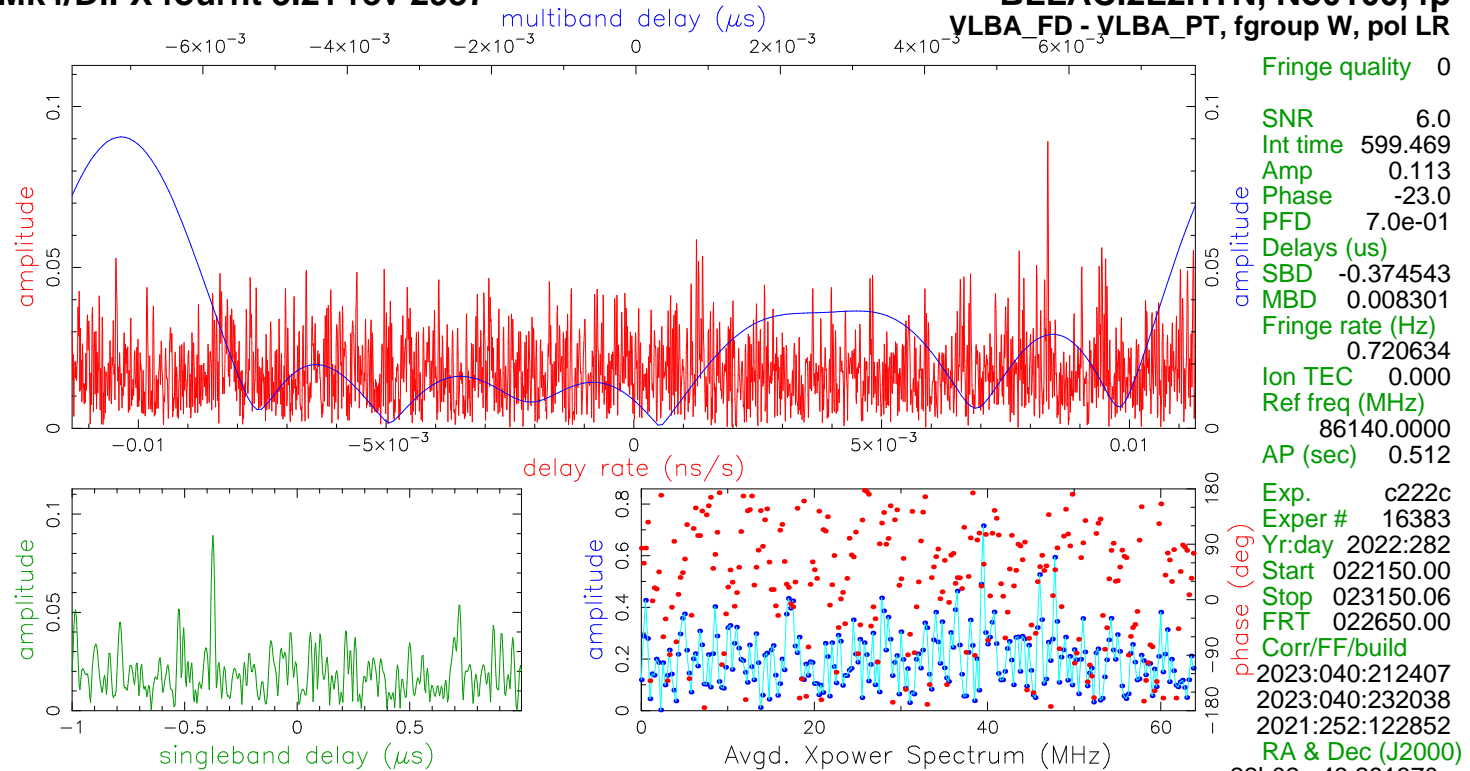
Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	9.9	-29.8	35.0	8.2	12.9	-5.0	-0.5	-7.6	Phase	2.4
	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0	Ampl.	0.1
	58.1	303.6	3.2	452.3	41.6	42.8	366.9	432.0	Sbd box	205.3
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.33802463127E+02		Apriori delay (usec)		1.33998380572E+02		Resid mbdelay (usec)		7.20755E-03	+/- 1.7E-04
Sband delay (usec)	1.33796382322E+02		Apriori clock (usec)		4.0956474E+01		Resid sbdelay (usec)		-2.01998E-01	+/- 1.4E-03
Phase delay (usec)	1.33998380650E+02		Apriori clockrate (us/s)		3.1316160E-08		Resid phdelay (usec)		7.79335E-08	+/- 5.9E-07
Delay rate (us/s)	-5.00964371851E-02		Apriori rate (us/s)		-5.01029659027E-02		Resid rate (us/s)		6.52872E-06	+/- 1.7E-09
Total phase (deg)	183.3		Apriori accel (us/s/s)		-4.60173561121E-06		Resid phase (deg)		2.4	+/- 18.4

ph/seg (deg) 58.2 44.2 Search (4096X32) 0.089 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 83.2 77.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 20.3 26.1 Inc. seg. avg. 0.122 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 34.4 45.5 Inc. frq. avg. 0.100 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
f: az 50.3 el 68.8 pa -114.7 p: az 60.7 el 67.9 pa -103.9 u,v (fr/asec) 372.762 -691.487 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fp..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fp.W.53.2L2HTN



Fringe quality 0

SNR 6.0

Int time 599.469

Amp 0.113

Phase -23.0

PFD 7.0e-01

Delays (us)

SBD -0.374543

MBD 0.008301

Fringe rate (Hz) 0.720634

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.512

Exp. c222c

Exper # 16383

Yr:day 2022:282

Start 022150.00

Stop 023150.06

FRT 022650.00

Corr/FF/build

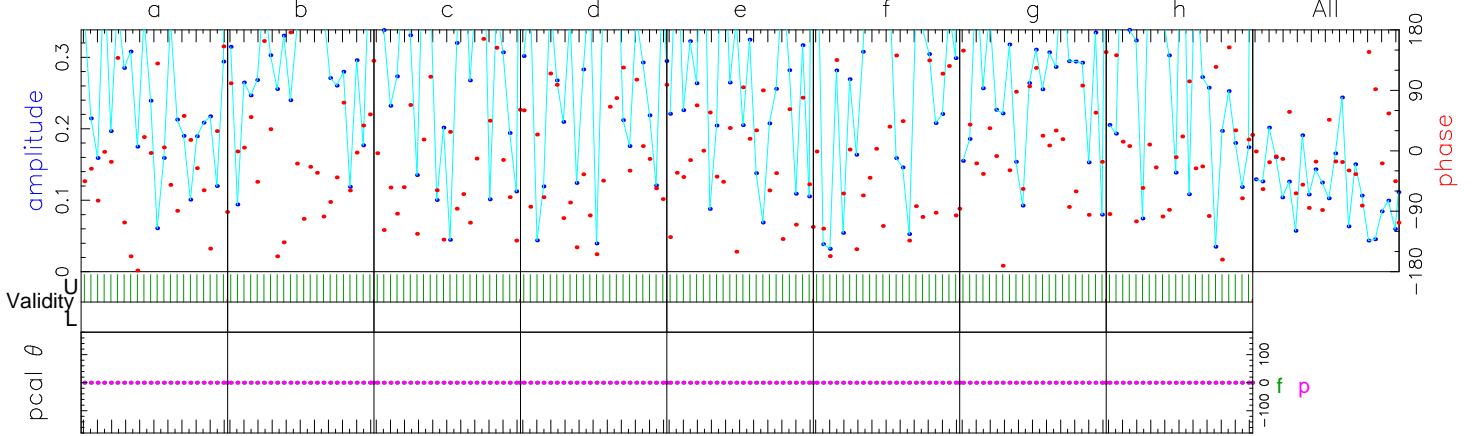
2023:040:212407

2023:040:232038

2021:252:122852

RA & Dec (J2000) 22h02m43.291370s +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



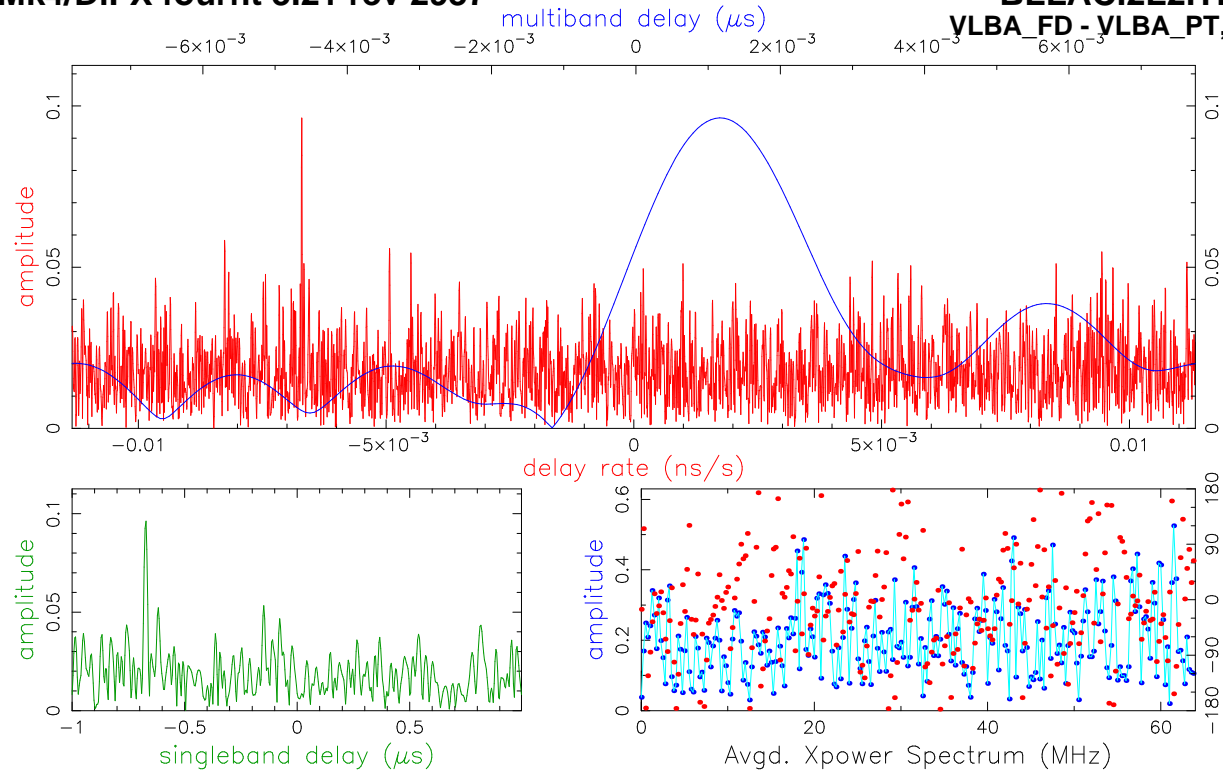
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-42.3	-20.2	-57.5	-11.7	-16.4	-49.9	16.7	-23.0	Phase	-23.0
	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	Ampl.	0.1
	61.3	112.2	136.1	433.7	90.6	253.6	107.1	226.8	Sbd box	161.1
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	1.33616056353E+02	Apriori delay (usec)		1.33998380572E+02	Resid mbdelay (usec)		8.30078E-03	+/-	1.8E-04
Sband delay (usec)	1.33623838072E+02	Apriori clock (usec)		4.0956474E+01	Resid sbdelay (usec)		-3.74543E-01	+/-	1.4E-03
Phase delay (usec)	1.33998379831E+02	Apriori clockrate (us/s)		3.1316160E-08	Resid phdelay (usec)		-7.41058E-07	+/-	6.2E-07
Delay rate (us/s)	-5.00946000603E-02	Apriori rate (us/s)		-5.01029659027E-02	Resid rate (us/s)		8.36584E-06	+/-	1.8E-09
Total phase (deg)	157.9	Apriori accel (us/s/s)		-4.60173561121E-06	Resid phase (deg)		-23.0	+/-	19.2

ph/seg (deg)	59.0	Theor.	46.0	Amplitude	0.113 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	66.5		80.3	Search (4096X32)	0.089	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	26.0		27.1	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	29.7		47.4	Inc. seg. avg.	0.115	Sample rate(MISamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.110	Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

f: az 50.3 el 68.8 pa -114.7 p: az 60.7 el 67.9 pa -103.9 u,v (fr/asec) 372.762 -691.487 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fp..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fp.W.76.2L2HTN

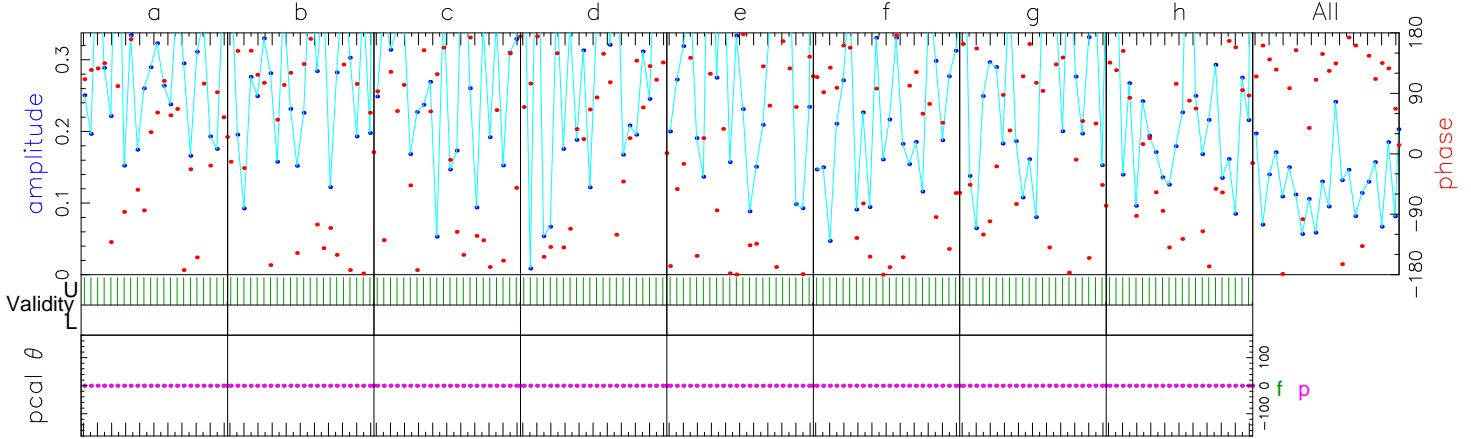


Fringe quality 0

SNR 6.5
Int time 599.469
Amp 0.113
Phase 137.6
PFD 4.4e-02
Delays (us)
SBD -0.673035
MBD 0.001119
Fringe rate (Hz)
-0.578123
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232044
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

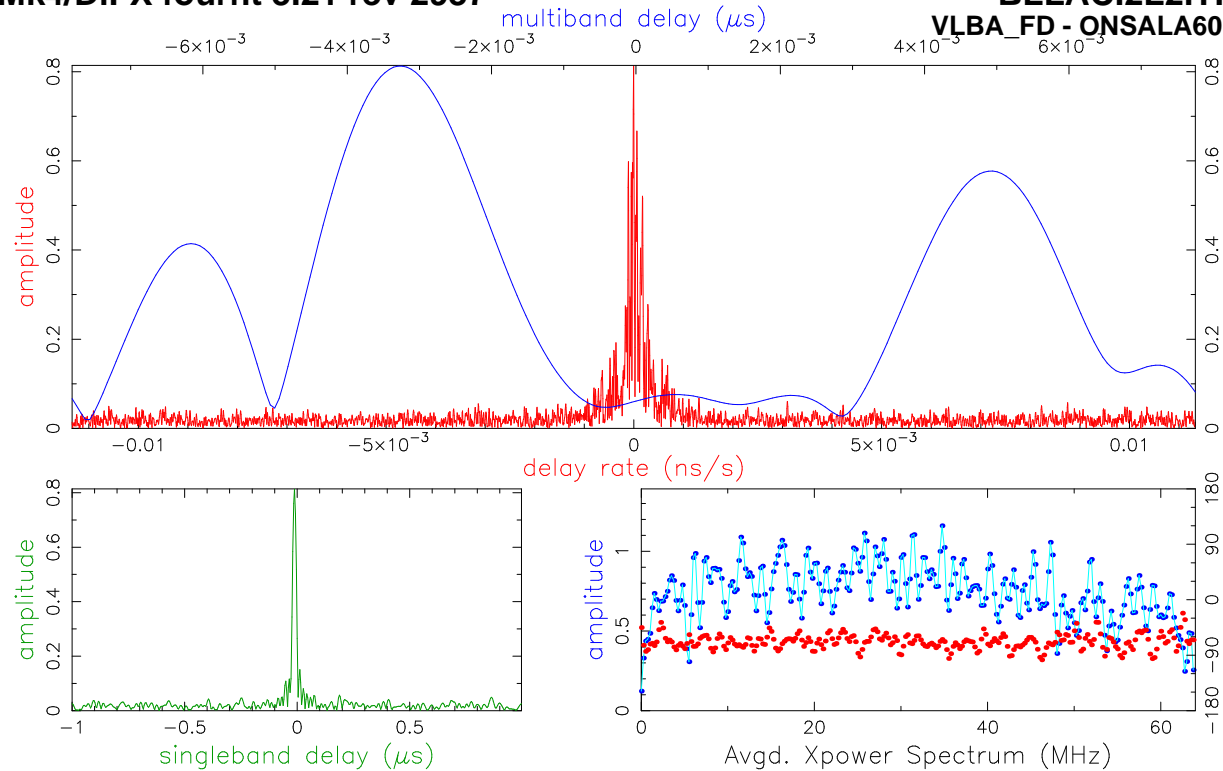
Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	101.3	155.6	163.2	125.0	146.6	153.2	154.5	105.3	Phase	137.6
	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	Ampl.	0.1
	9.8	109.4	230.0	84.3	298.1	395.0	54.0	46.8	Sbd box	84.7
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.33327624200E+02	Apriori delay (usec)	1.33998380572E+02	Resid mbdelay (usec)	1.11863E-03	+/-	1.7E-04
Sband delay (usec)	1.33325345572E+02	Apriori clock (usec)	4.0956474E+01	Resid sbdelay (usec)	-6.73035E-01	+/-	1.3E-03
Phase delay (usec)	1.33998385008E+02	Apriori clockrate (us/s)	3.1316160E-08	Resid phdelay (usec)	4.43563E-06	+/-	5.7E-07
Delay rate (us/s)	-5.01096773410E-02	Apriori rate (us/s)	-5.01029659027E-02	Resid rate (us/s)	-6.71144E-06	+/-	1.6E-09
Total phase (deg)	318.4	Apriori accel (us/s/s)	-4.60173561121E-06	Resid phase (deg)	137.6	+/-	17.6

ph/seg (deg)	48.2	RMS	42.3	Theor.	48.2	Amplitude	0.113 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	55.9	Search (4096X32)	0.092	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	26.2	Inc. seg. avg.	0.114	Inc. frq. avg.	0.110	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	31.8	Inc. frq. avg.	0.110			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011	0.011		
f: az 50.3 el 68.8 pa -114.7		p: az 60.7 el 67.9 pa -103.9		u, v (fr/asec)	372.762 -691.487	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

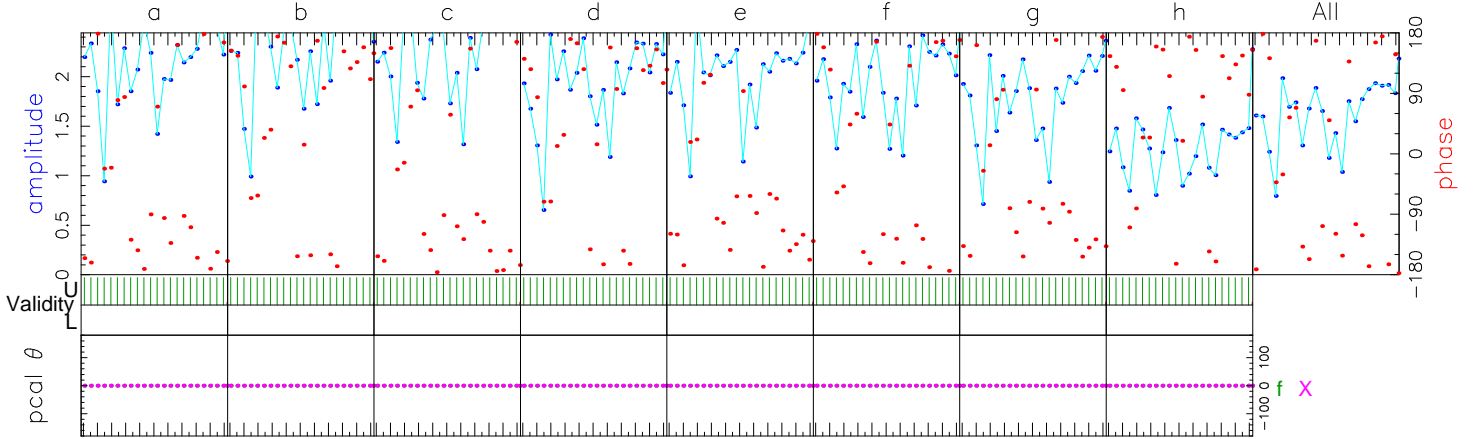


Fringe quality 2

SNR 54.5
Int time 599.452
Amp 0.814
Phase -171.4
PFD 0.0e+00
Delays (us)
SBD -0.012244
MBD -0.003276
Fringe rate (Hz)
-0.000319
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232115
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



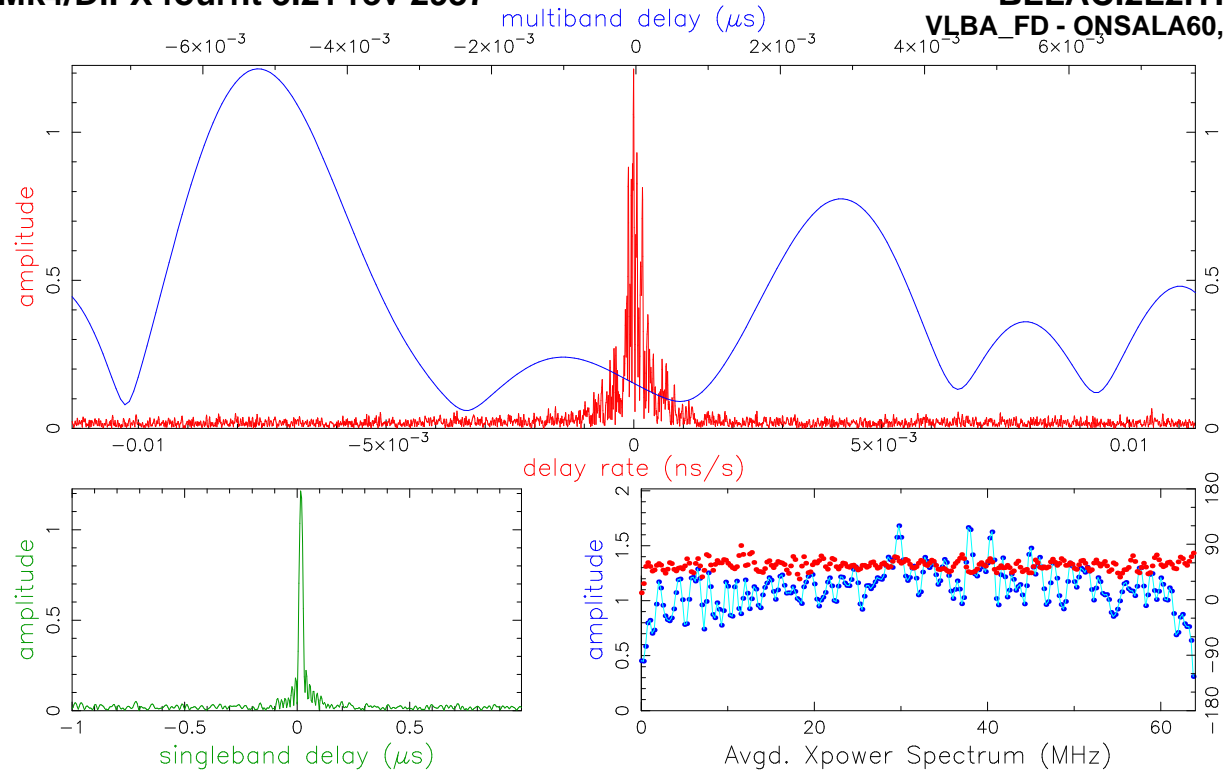
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-152.5	147.9	-152.6	143.3	-116.2	-178.2	-133.0	134.6	Phase	-171.4
	1.2	1.2	1.2	1.0	1.0	1.0	0.9	0.7	Ampl.	1.0
	253.5	252.9	254.0	253.0	253.6	253.6	253.0	252.6	Sbd box	253.9
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	8.65741764814E+03	Apriori delay (usec)	8.65743654879E+03	Resid mbdelay (usec)	-3.27566E-03	+/-	2.0E-05
Sband delay (usec)	8.65742430479E+03	Apriori clock (usec)	-6.1914425E+01	Resid sbdelay (usec)	-1.22440E-02	+/-	1.6E-04
Phase delay (usec)	8.65743654327E+03	Apriori clockrate (us/s)	-5.2908383E-07	Resid phdelay (usec)	-5.52822E-06	+/-	6.8E-08
Delay rate (us/s)	9.61115929895E-01	Apriori rate (us/s)	9.61115933597E-01	Resid rate (us/s)	-3.70151E-09	+/-	2.0E-10
Total phase (deg)	-58.7	Apriori accel (us/s/s)	-7.16905939917E-05	Resid phase (deg)	-171.4	+/-	2.1

ph/seg (deg)	RMS 71.0	Theor. 5.0	Amplitude Search (4096X32)	0.814 +/- 0.015	0.793	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	105.1	8.8	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	44.5	3.0	Inc. seg. avg.	1.604	1.604	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	32.6	5.2	Inc. frq. avg.	1.015	1.015	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 50.3 el 68.8 pa -114.7 X: az 298.7 el 32.8 pa 39.4 u,v (fr/asec) -7687.128 -7155.334 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fX..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fX.W.144.2L2HTN

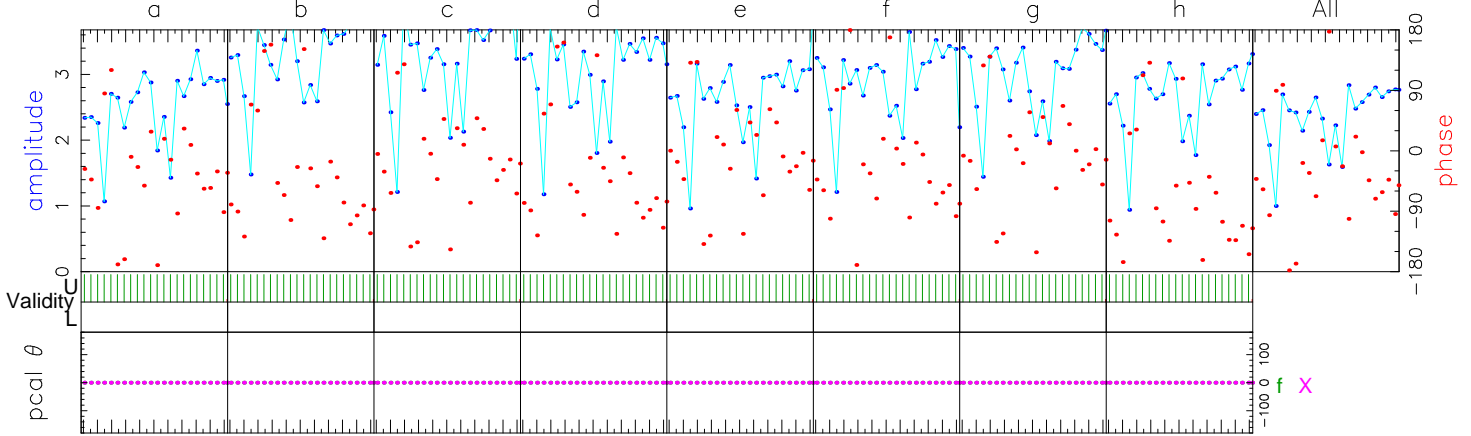


Fringe quality 2

SNR 82.1
Int time 599.452
Amp 1.226
Phase -49.2
PFD 0.0e+00
Delays (us)
SBD 0.016919
MBD -0.005190
Fringe rate (Hz)
-0.000263
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

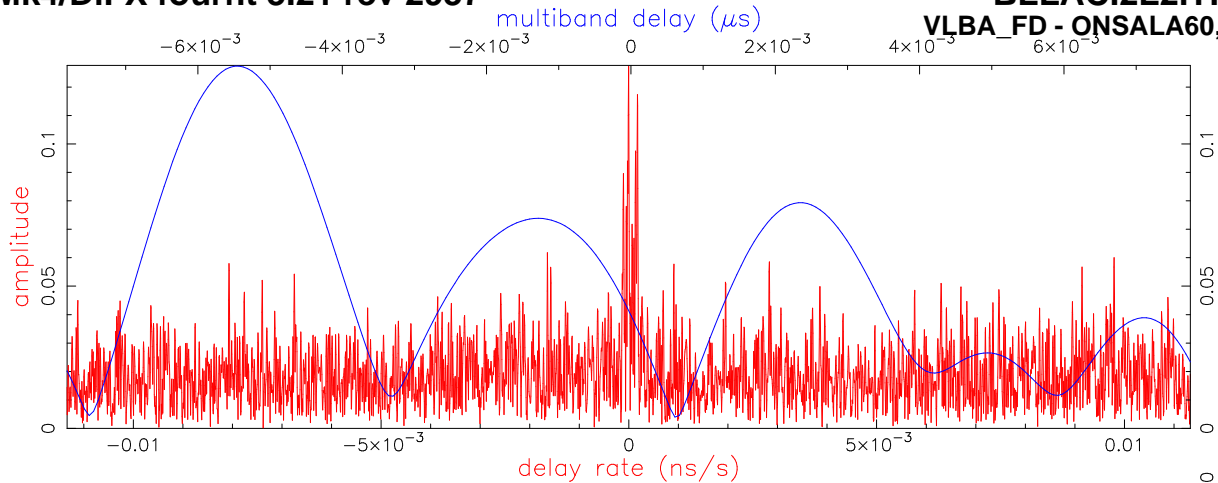
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232124
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-37.1	-83.5	-17.8	-78.1	-8.5	-52.7	-8.0	-114.9	Phase	-49.2
	1.3	1.7	1.6	1.6	1.4	1.5	1.5	1.3	Ampl.	1.5
	260.7	261.2	261.1	260.7	260.9	261.3	260.5	259.9	Sbd box	261.3
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	8.65744698382E+03		Apriori delay (usec)		8.65743654879E+03		Resid mbdelay (usec)		-5.18997E-03	+/- 1.3E-05
Sband delay (usec)	8.65745346754E+03		Apriori clock (usec)		-6.1914425E+01		Resid sbdelay (usec)		1.69188E-02	+/- 1.0E-04
Phase delay (usec)	8.65743654721E+03		Apriori clockrate (us/s)		-5.2908383E-07		Resid phdelay (usec)		-1.58570E-06	+/- 4.5E-08
Delay rate (us/s)	9.61115930540E-01		Apriori rate (us/s)		9.61115933597E-01		Resid rate (us/s)		-3.05707E-09	+/- 1.3E-10
Total phase (deg)	63.6		Apriori accel (us/s/s)		-7.16905939917E-05		Resid phase (deg)		-49.2	+/- 1.4

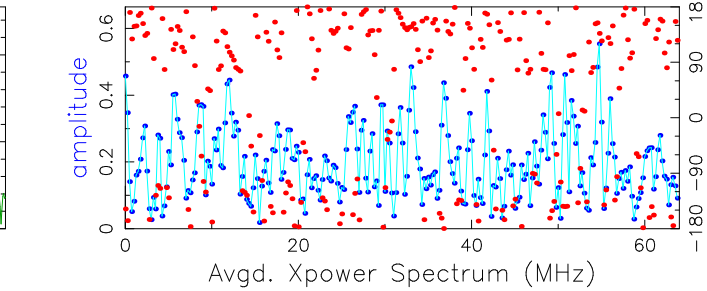
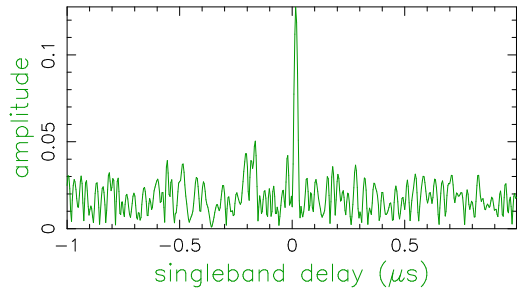
ph/seg (deg) 71.7 3.3 Search (4096X32) 1.172 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 99.6 5.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 42.5 2.0 Inc. seg. avg. 2.357 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 25.0 3.4 Inc. frq. avg. 1.495 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
f: az 50.3 el 68.8 pa -114.7 X: az 298.7 el 32.8 pa 39.4 u,v (fr/asec) -7687.128 -7155.334 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fX..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fX.W.169.2L2HTN



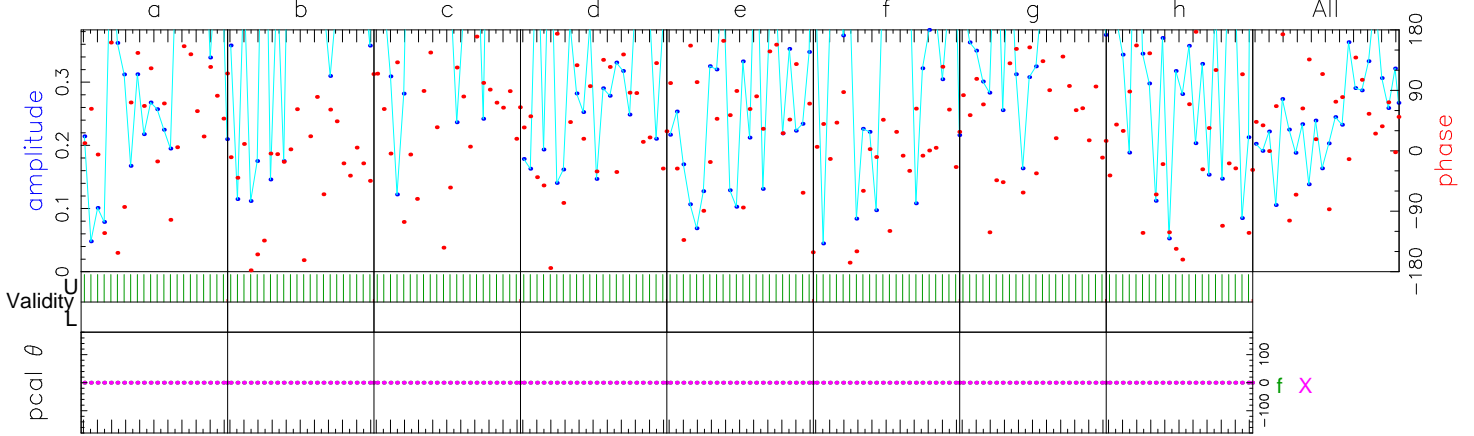
Fringe quality 9

SNR 8.5
Int time 599.452
Amp 0.128
Phase 47.2
PFD 9.3e-09
Delays (us)
SBD 0.016168
MBD -0.005433
Fringe rate (Hz)
-0.000322
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232132
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"



Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	89.7	-3.6	67.1	52.5	84.4	10.1	69.0	-0.6	Phase	47.2
	0.1	0.2	0.3	0.1	0.1	0.2	0.2	0.0	Ampl.	0.1
	388.5	260.8	261.7	131.7	346.3	260.9	259.9	45.3	Sbd box	261.1
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	8.65744674120E+03	Apriori delay (usec)	8.65743654879E+03	Resid mbdelay (usec)	-5.43260E-03	+/-	1.3E-04
Sband delay (usec)	8.65745271654E+03	Apriori clock (usec)	-6.1914425E+01	Resid sbdelay (usec)	1.61678E-02	+/-	1.0E-03
Phase delay (usec)	8.65743655032E+03	Apriori clockrate (us/s)	-5.2908383E-07	Resid phdelay (usec)	1.52061E-06	+/-	4.3E-07
Delay rate (us/s)	9.61115929855E-01	Apriori rate (us/s)	9.61115933597E-01	Resid rate (us/s)	-3.74118E-09	+/-	1.2E-09
Total phase (deg)	159.9	Apriori accel (us/s/s)	-7.16905939917E-05	Resid phase (deg)	47.2	+/-	13.4

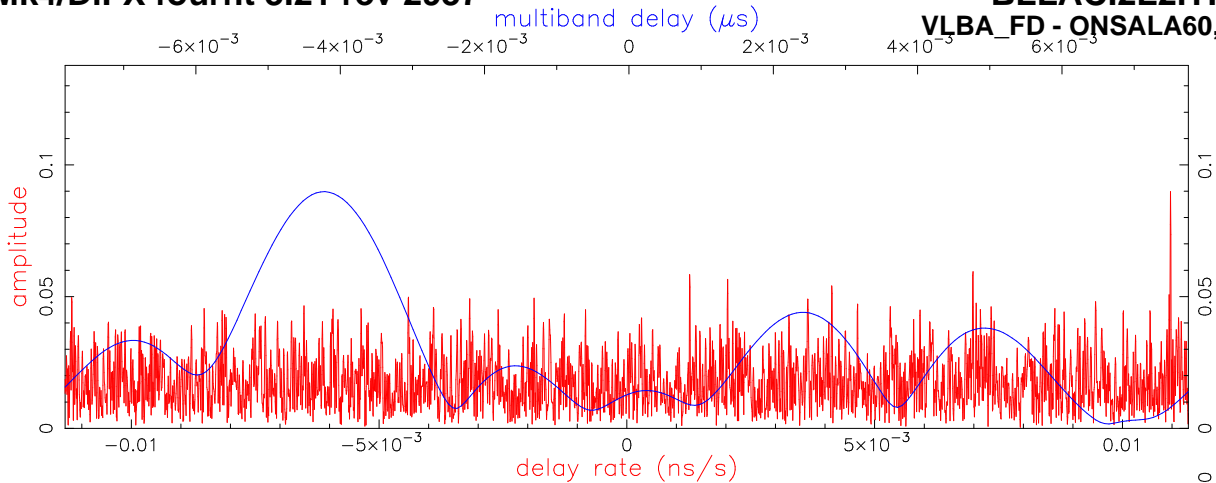
ph/seg (deg)	69.4	RMS	32.2	Theor.	Amplitude	0.128 +/- 0.015	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	110.8	69.4	32.2	Search (4096X32)	0.125	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	41.5	56.1	32.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	61.2	19.0	33.1	Inc. seg. avg.	0.215	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011		
		61.2	33.1	Inc. frq. avg.	0.146	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 50.3 el 68.8 pa -114.7 X: az 298.7 el 32.8 pa 39.4 u, v (fr/asec) -7687.128 -7155.334 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fX..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fX.W.197.2L2HTN

Mk4/DiFX fourfit 3.21 rev 2937

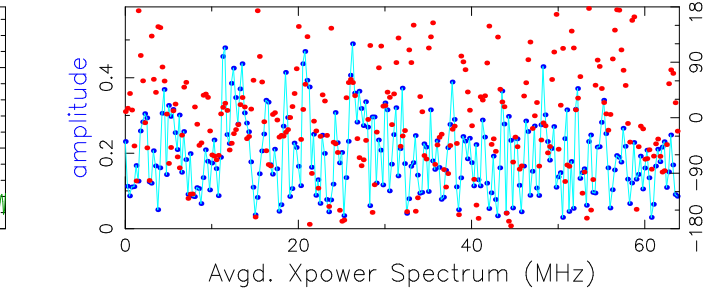
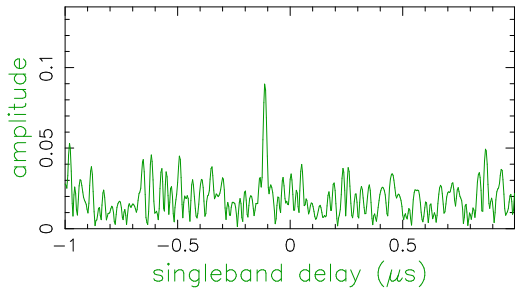
BLLAC.2L2HTN, No0100, fX
VLBA_FD - ONSALA60, fgroup W, pol RL



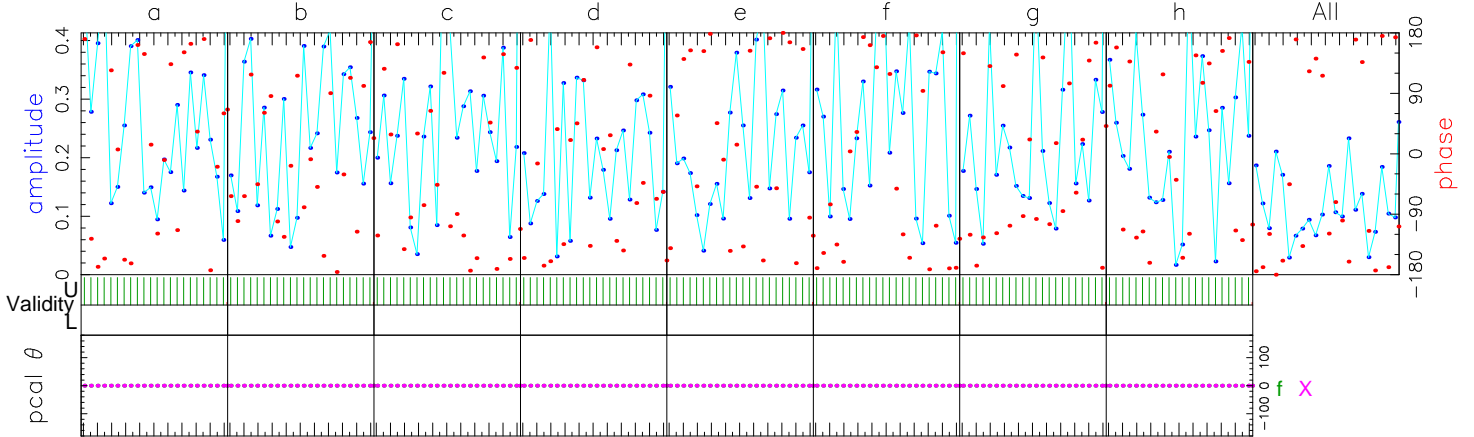
Fringe quality 0

SNR 6.1
Int time 599.452
Amp 0.138
Phase -168.4
PFD 5.3e-01
Delays (us)
SBD -0.112279
MBD -0.004223
Fringe rate (Hz) 0.946694
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232141
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"



Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



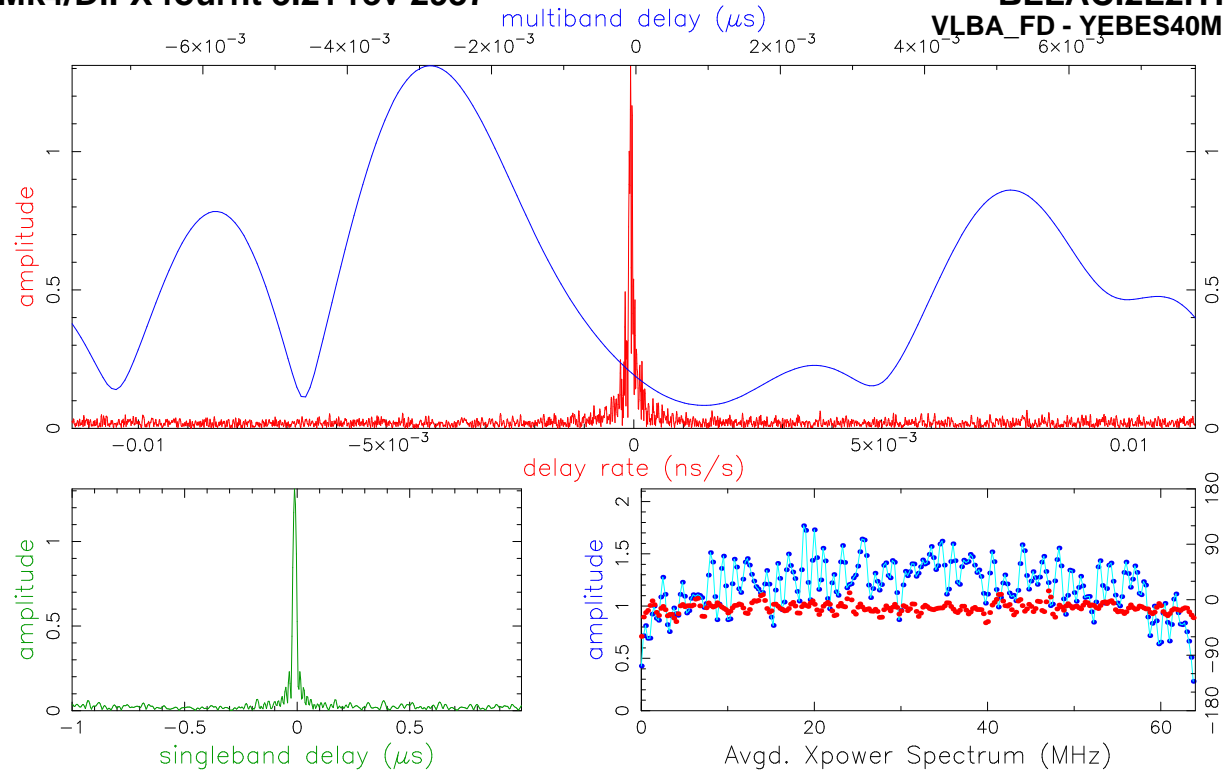
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-176.6	-108.7	178.2	-146.6	-152.4	-166.6	-175.3	-174.8	Phase	-168.4
	0.2	0.0	0.2	0.1	0.1	0.3	0.1	0.2	Ampl.	0.1
	228.3	213.7	129.4	493.7	492.0	228.1	439.6	121.7	Sbd box	228.3
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	8.65732295109E+03	Apriori delay (usec)	8.65743654879E+03	Resid mbdelay (usec)	-4.22270E-03	+/-	1.8E-04
Sband delay (usec)	8.65732426954E+03	Apriori clock (usec)	-6.1914425E+01	Resid sbdelay (usec)	-1.12279E-01	+/-	1.4E-03
Phase delay (usec)	8.65743654337E+03	Apriori clockrate (us/s)	-5.2908383E-07	Resid phdelay (usec)	-5.42936E-06	+/-	6.1E-07
Delay rate (us/s)	9.61126923771E-01	Apriori rate (us/s)	9.61115933597E-01	Resid rate (us/s)	1.09902E-05	+/-	1.8E-09
Total phase (deg)	-55.6	Apriori accel (us/s/s)	-7.16905939917E-05	Resid phase (deg)	-168.4	+/-	18.9

ph/seg (deg)	RMS 50.4	Theor. 45.4	Amplitude Search (4096X32)	0.138 +/- 0.023	0.087	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	68.5	79.3	Interp.	0.000	0.007	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	27.8	26.8	Inc. seg. avg.	0.136	0.128	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	49.0	46.8	Inc. frq. avg.	0.128	0.128	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 50.3 el 68.8 pa -114.7 X: az 298.7 el 32.8 pa 39.4 u,v (fr/asec) -7687.128 -7155.334 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fX..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fX.W.208.2L2HTN

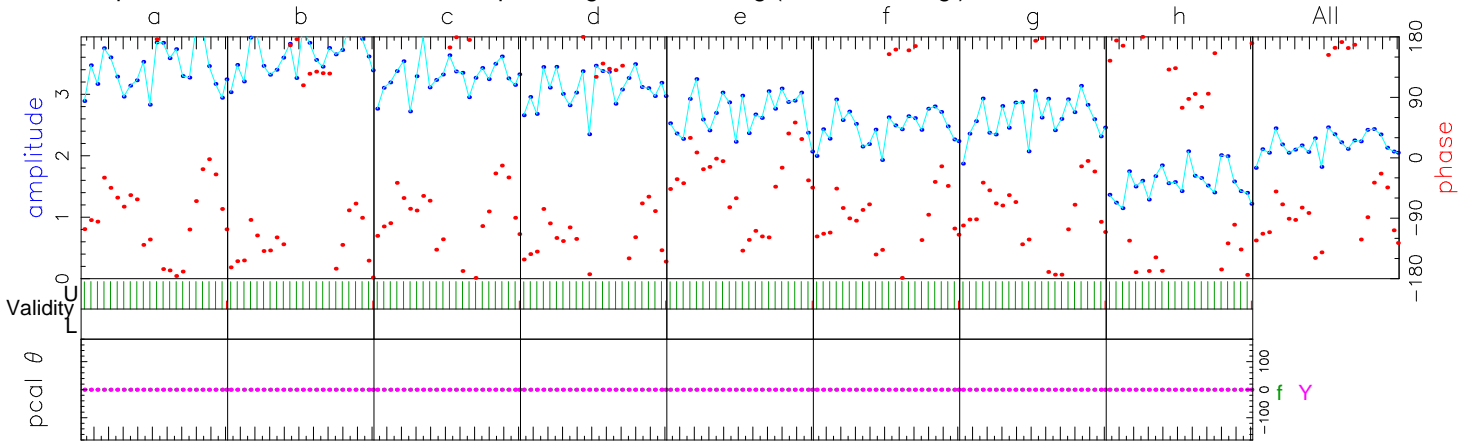


Fringe quality 1

SNR 86.5
Int time 581.924
Amp 1.311
Phase -110.3
PFD 0.0e+00
Delays (us)
SBD -0.011298
MBD -0.002842
Fringe rate (Hz)
-0.005516
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

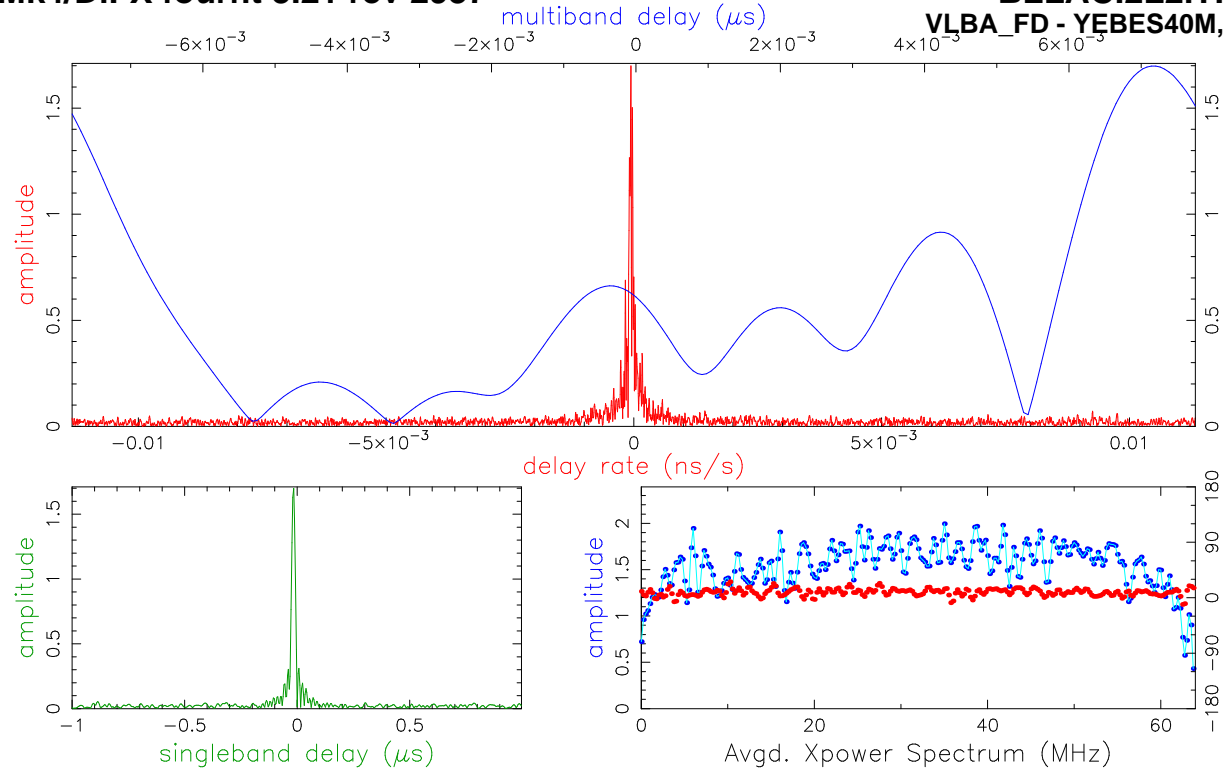
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022207.41
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232156
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 51 APs / seg (26.11 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-89.8	-153.2	-95.5	-141.3	-32.1	-107.3	-91.2	168.3	Phase	-110.3
	2.0	2.2	2.0	1.9	1.6	1.5	1.6	1.0	Ampl.	1.7
	253.8	253.6	253.8	253.7	253.6	253.2	253.3	251.5	Sbd box	254.1
U/L	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	8.74680546497E+03		Apriori delay (usec)		8.74682393242E+03		Resid mbdelay (usec)		-2.84244E-03	+/- 1.3E-05
Sband delay (usec)	8.74681263467E+03		Apriori clock (usec)		6.4470024E+01		Resid sbdelay (usec)		-1.12978E-02	+/- 1.0E-04
Phase delay (usec)	8.74682392886E+03		Apriori clockrate (us/s)		1.5861161E-06		Resid phdelay (usec)		-3.55684E-06	+/- 4.3E-08
Delay rate (us/s)	1.20511463964E+00		Apriori rate (us/s)		1.20511470368E+00		Resid rate (us/s)		-6.40341E-08	+/- 1.3E-10
Total phase (deg)	83.5		Apriori accel (us/s/s)		-5.68242766937E-05		Resid phase (deg)		-110.3	+/- 1.3

ph/seg (deg) 54.2 3.2 Search (4096X32) 1.271 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 68.0 5.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 52.5 1.9 Inc. seg. avg. 2.181 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 42.3 3.3 Inc. frq. avg. 1.717 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 50.3 el 68.8 pa -114.7 Y: az 300.0 el 33.2 pa 62.5 u,v (fr/asec) -9527.793 -4787.107 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fY..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fY.W.233.2L2HTN

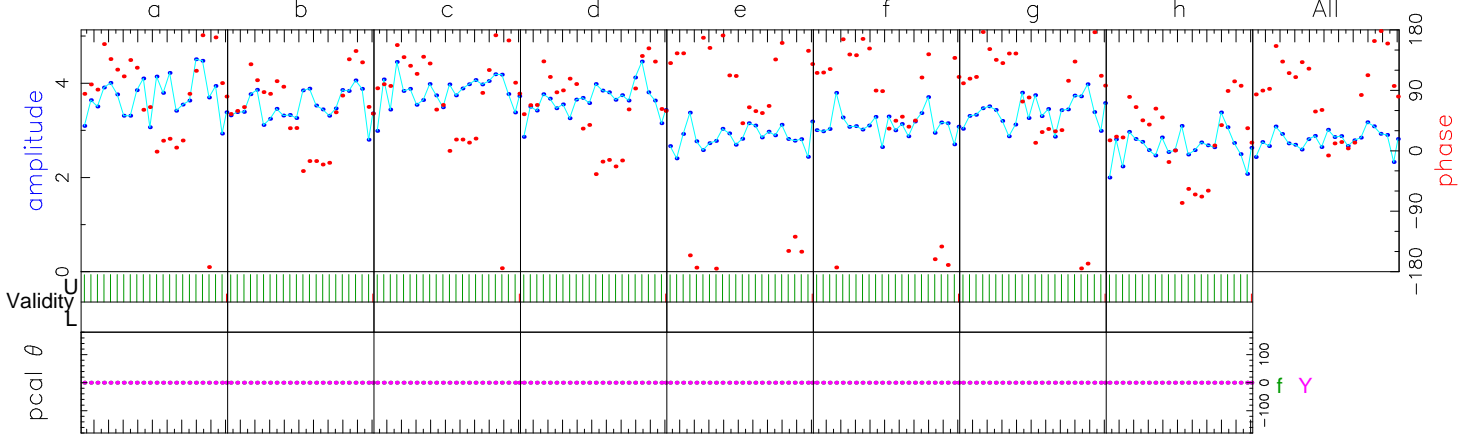


Fringe quality 2

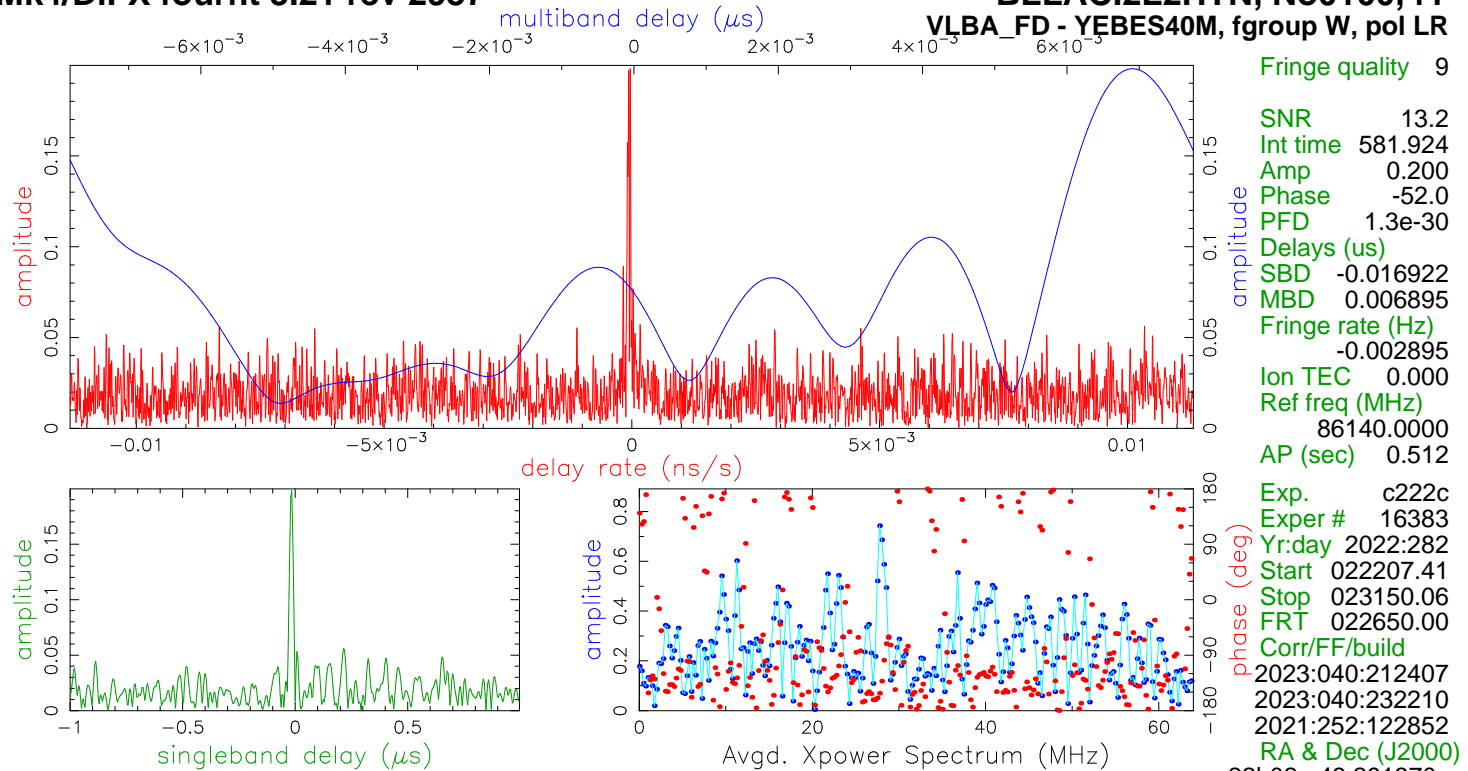
SNR 112.9
Int time 581.924
Amp 1.711
Phase 94.1
PFD 0.0e+00
Delays (us)
SBD -0.016710
MBD 0.007150
Fringe rate (Hz)
-0.005467
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022207.41
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232203
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

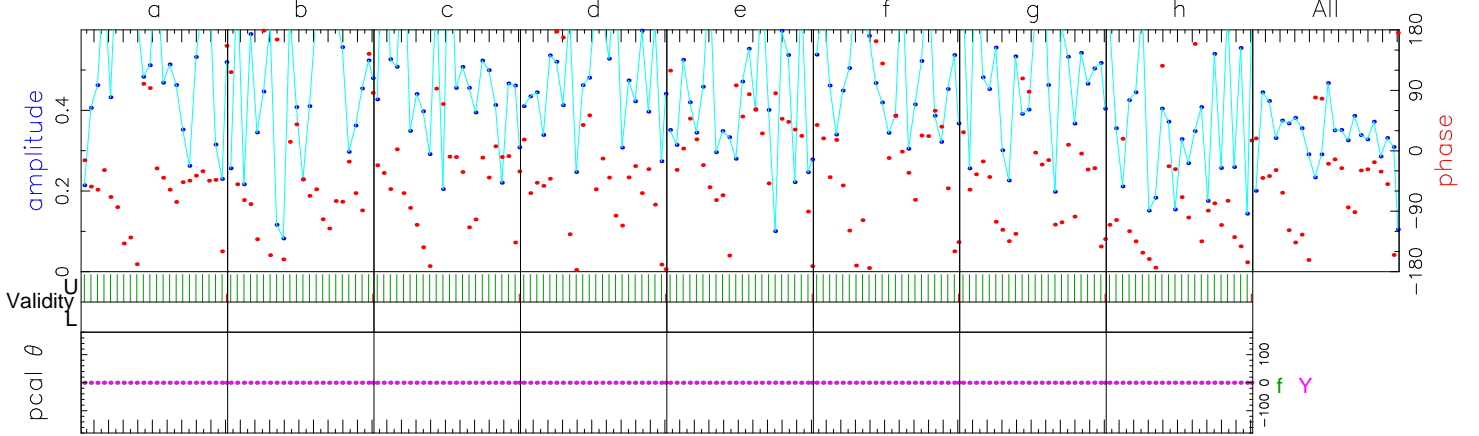
Amp. and Phase vs. time for each freq., 23 segs, 51 APs / seg (26.11 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0		
f	0	0	0	0	0	0	0	0		
Y	0	0	0	0	0	0	0	0		
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Y	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		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		8.74679983216E+03				8.74682393242E+03			7.14975E-03	+/- 9.6E-06
Sband delay (usec)		8.74680722242E+03				6.4470024E+01			-1.67100E-02	+/- 7.6E-05
Phase delay (usec)		8.74682393545E+03				1.5861161E-06			3.03409E-06	+/- 3.3E-08
Delay rate (us/s)		1.20511464021E+00				1.20511470368E+00			-6.34705E-08	+/- 9.7E-11
Total phase (deg)			287.9			-5.68242766937E-05			94.1	+/- 1.0
	RMS	Theor.	Amplitude	1.711 +/- 0.015		Pcal mode: MANUAL, MANUAL			PC period (AP's) 5, 5	
ph/seg (deg)	54.4	2.4	Search (4096X32)	1.630		Pcal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us)	-1.000 1.000
amp/seg (%)	64.9	4.2	Interp.	0.000		Bits/sample: 2x2			SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	41.0	1.4	Inc. seg. avg.	2.801		Sample rate(MISamp/s): 128				dr window (ns/s) -0.011 0.011
amp/frq (%)	21.8	2.5	Inc. frq. avg.	2.011		Data rate(Mb/s): 2048				ion window (TEC) 0.00 0.00
f: az 50.3 el 68.8 pa -114.7		Y: az 300.0 el 33.2 pa 62.5		u, v (fr/asec) -9527.793 -4787.107						simultaneous interpolator



Amp. and Phase vs. time for each freq., 23 segs, 51 APs / seg (26.11 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-61.7	-83.4	-39.8	-59.4	18.5	-16.9	-40.3	-115.1	Phase	-52.0
	0.3	0.2	0.3	0.3	0.2	0.1	0.3	0.2	Ampl.	0.2
	253.0	251.6	252.8	252.8	251.7	251.3	251.4	252.3	Sbd box	252.7
U/L	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	8.74679957785E+03	Apriori delay (usec)	8.74682393242E+03	Resid mbdelay (usec)	6.89544E-03	+/-	8.2E-05
Sband delay (usec)	8.74680701042E+03	Apriori clock (usec)	6.4470024E+01	Resid sbdelay (usec)	-1.69220E-02	+/-	6.5E-04
Phase delay (usec)	8.74682393074E+03	Apriori clockrate (us/s)	1.5861161E-06	Resid phdelay (usec)	-1.67678E-06	+/-	2.8E-07
Delay rate (us/s)	1.20511467007E+00	Apriori rate (us/s)	1.20511470368E+00	Resid rate (us/s)	-3.36051E-08	+/-	8.3E-10
Total phase (deg)	141.8	Apriori accel (us/s/s)	-5.68242766937E-05	Resid phase (deg)	-52.0	+/-	8.7

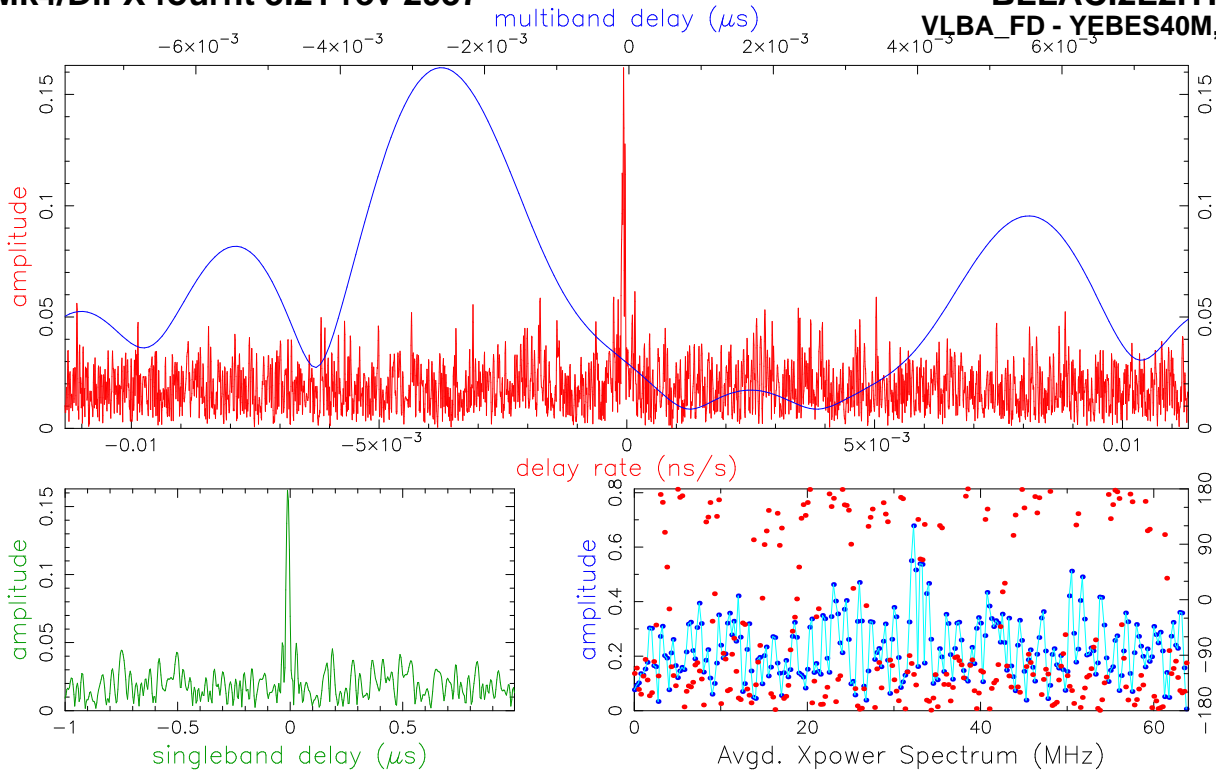
ph/seg (deg)	64.7	RMS	20.8	Theor.	0.200 +/- 0.015	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	77.4	Search (4096X32)	0.197	Amplitude	0.200 +/- 0.015	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	44.0	Interp.	0.000	Search	0.197	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	33.1	Inc. seg. avg.	0.319	Inc. seg. avg.	0.319	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	0.238	Inc. frq. avg.	0.238	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

f: az 50.3 el 68.8 pa -114.7 Y: az 300.0 el 33.2 pa 62.5 u,v (fr/asec) -9527.793 -4787.107 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fy..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fy.W.278.2L2HTN

Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2L2HTN, No0100, fY
VLBA_FD - YEYES40M, fgroup W, pol RL

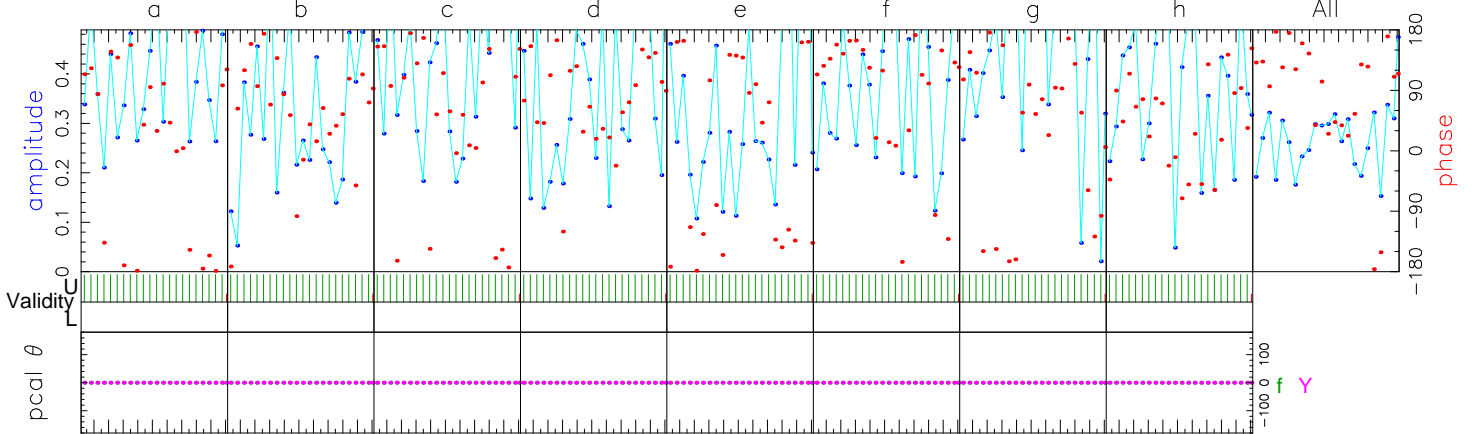


Fringe quality 9

SNR 10.8
Int time 581.924
Amp 0.163
Phase 112.8
PFD 5.1e-18
Delays (us)
SBD -0.010729
MBD -0.002569
Fringe rate (Hz)
-0.005507
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

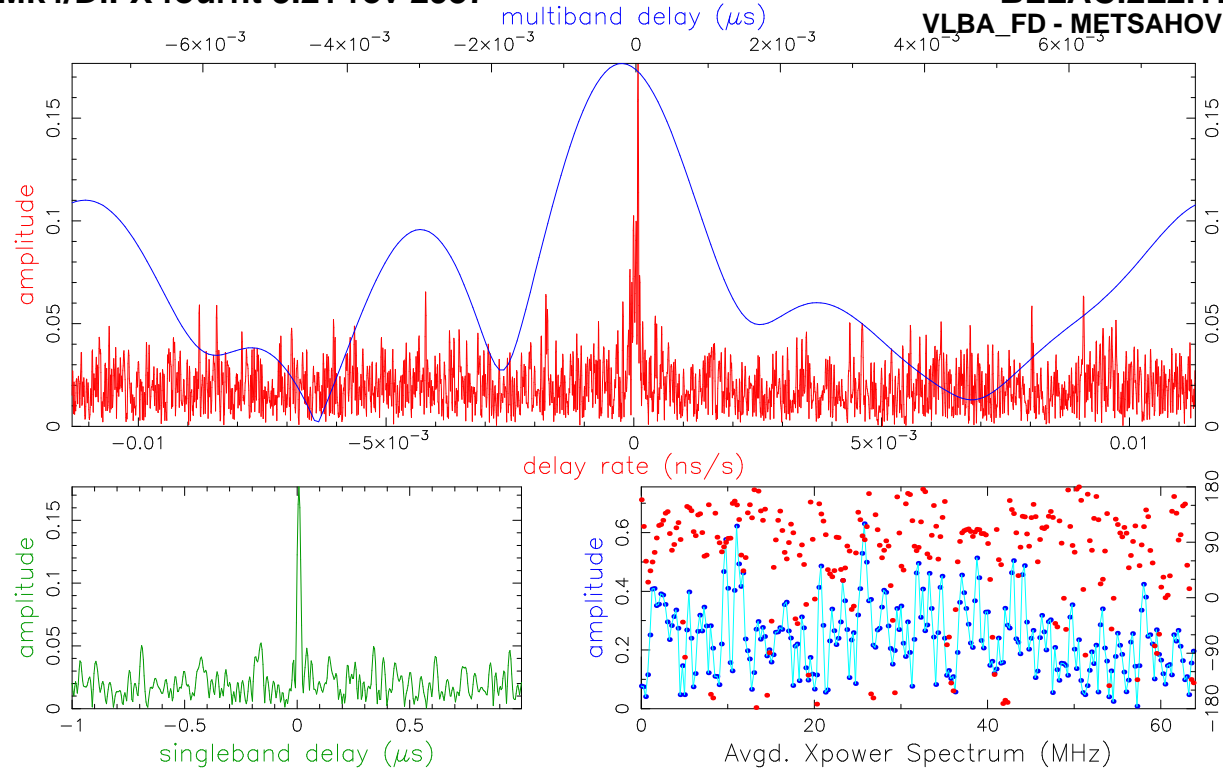
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022207.41
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232216
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 51 APs / seg (26.11 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	115.3	76.8	139.0	85.3	176.9	120.4	137.9	48.6	Phase	112.8
	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
	252.9	254.4	254.3	254.8	253.2	253.5	253.1	251.4	Sbd box	254.3
U/L	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	8.74680573794E+03		Apriori delay (usec)		8.74682393242E+03		Resid mbdelay (usec)		-2.56947E-03	+/- 1.0E-04
Sband delay (usec)	8.74681320342E+03		Apriori clock (usec)		6.4470024E+01		Resid sbdelay (usec)		-1.07290E-02	+/- 8.0E-04
Phase delay (usec)	8.74682393605E+03		Apriori clockrate (us/s)		1.5861161E-06		Resid phdelay (usec)		3.63793E-06	+/- 3.4E-07
Delay rate (us/s)	1.20511463975E+00		Apriori rate (us/s)		1.20511470368E+00		Resid rate (us/s)		-6.39254E-08	+/- 1.0E-09
Total phase (deg)	306.6		Apriori accel (us/s/s)		-5.68242766937E-05		Resid phase (deg)		112.8	+/- 10.7

ph/seg (deg) 54.4 25.5 Search (4096X32) 0.156 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 72.0 44.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 44.1 15.1 Inc. seg. avg. 0.241 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 25.8 26.3 Inc. frq. avg. 0.196 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
f: az 50.3 el 68.8 pa -114.7 Y: az 300.0 el 33.2 pa 62.5 u,v (fr/asec) -9527.793 -4787.107 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fY..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fY.W.294.2L2HTN

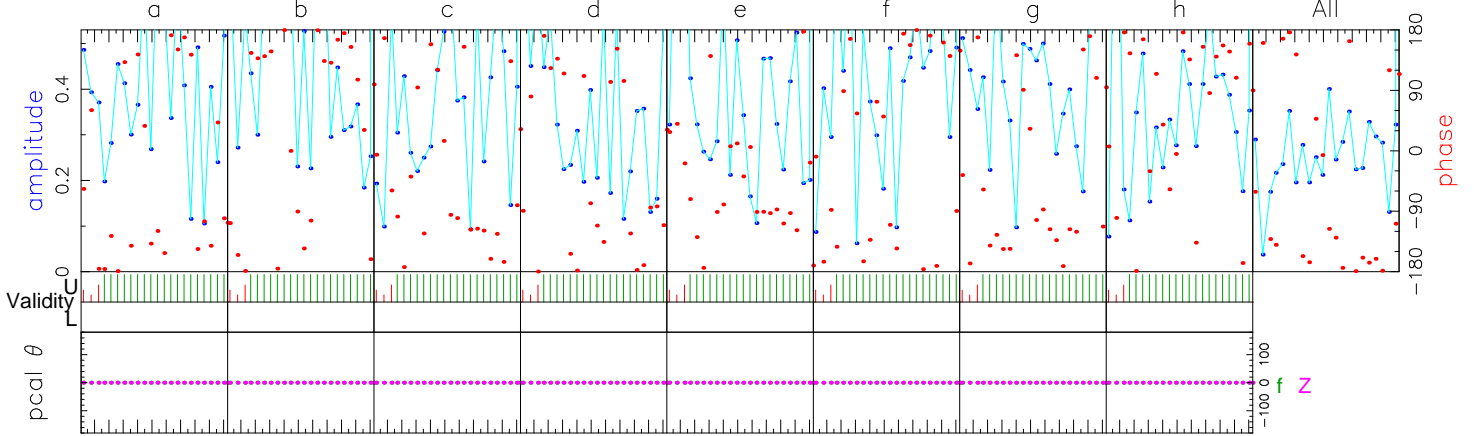


Fringe quality 9

SNR 11.2
 Int time 540.685
 Amp 0.177
 Phase -162.8
 PFD 2.7e-20
 Delays (us)
 SBD 0.007613
 MBD -0.000197
 Fringe rate (Hz) 0.007231
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c222c
 Exper # 16383
 Yr:day 2022:282
 Start 022203.82
 Stop 023150.06
 FRT 022650.00
 Corr/FF/build
 2023:040:212407
 2023:040:231952
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

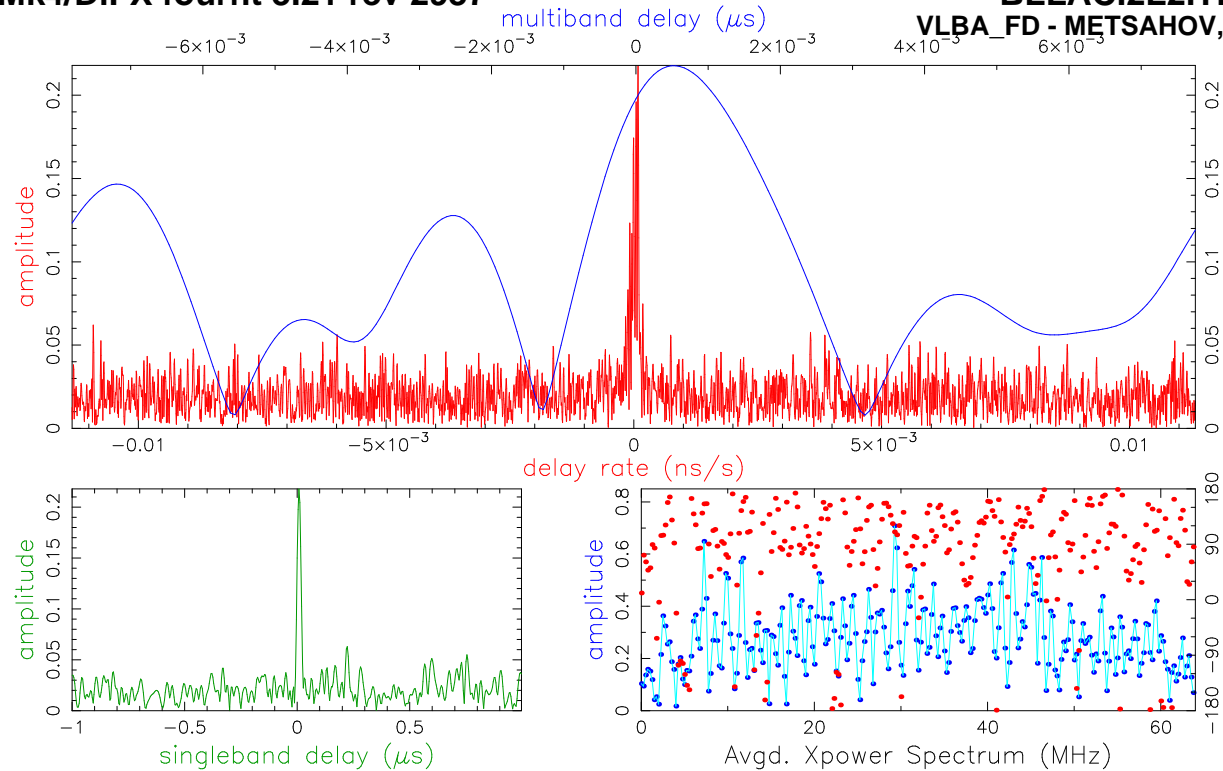
Amp. and Phase vs. time for each freq., 23 segs, 52 APs / seg (26.62 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-164.4	164.9	-127.7	-170.3	-72.5	-175.8	-137.7	150.6	Phase	-162.8
	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	Ampl.	0.2
	259.2	258.0	258.7	258.0	258.6	258.6	257.2	257.4	Sbd box	258.9
U/L	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	9.97580955255E+03		Apriori delay (usec)		9.97580974922E+03		Resid mbdelay (usec)		-1.96665E-04	+/- 9.7E-05
Sband delay (usec)	9.97581736197E+03		Apriori clock (usec)		2.0861578E+01		Resid sbdelay (usec)		7.61275E-03	+/- 7.7E-04
Phase delay (usec)	9.97580974397E+03		Apriori clockrate (us/s)		3.1816160E-08		Resid phdelay (usec)		-5.24985E-06	+/- 3.3E-07
Delay rate (us/s)	8.88019193899E-01		Apriori rate (us/s)		8.88019109956E-01		Resid rate (us/s)		8.39428E-08	+/- 1.0E-09
Total phase (deg)	124.3		Apriori accel (us/s/s)		-8.02077595999E-05		Resid phase (deg)		-162.8	+/- 10.2

ph/seg (deg) RMS Theor. Amplitude 0.177 +/- 0.016 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 59.2 23.9 Search (4096X32) 0.172 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 61.8 41.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 47.4 14.4 Inc. seg. avg. 0.238 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 35.7 25.2 Inc. frq. avg. 0.216 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

f: az 50.3 el 68.8 pa -114.7 Z: az 305.9 el 28.9 pa 33.5 u,v (fr/asec) -7148.696 -7945.395 simultaneous interpolator

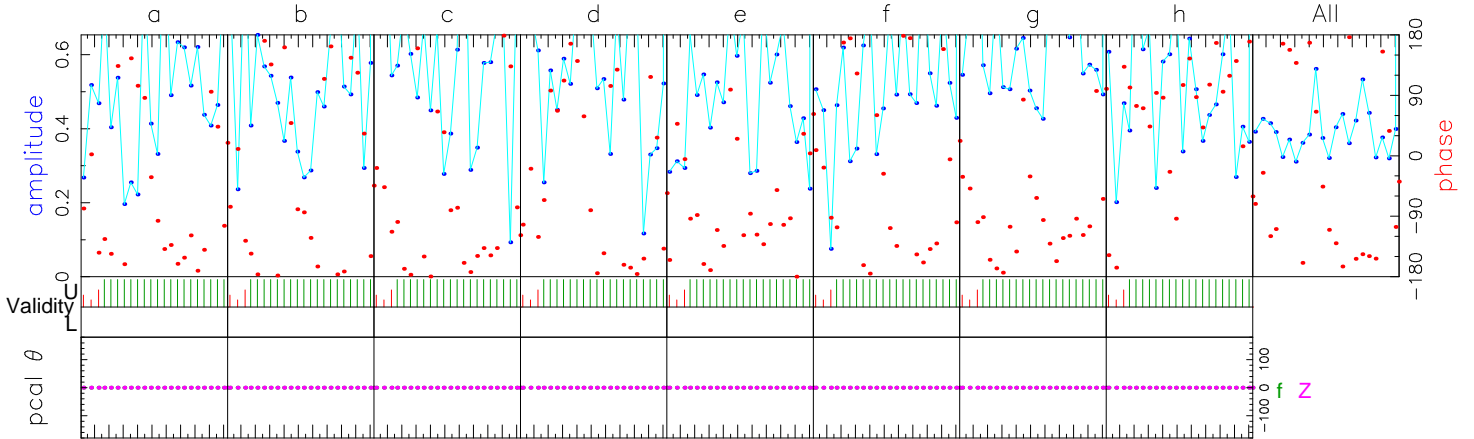


Fringe quality 9

SNR 13.9
 Int time 540.685
 Amp 0.218
 Phase -156.3
 PFD 1.4e-34
 Delays (us)
 SBD 0.008220
 MBD 0.000536
 Fringe rate (Hz) 0.007328
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

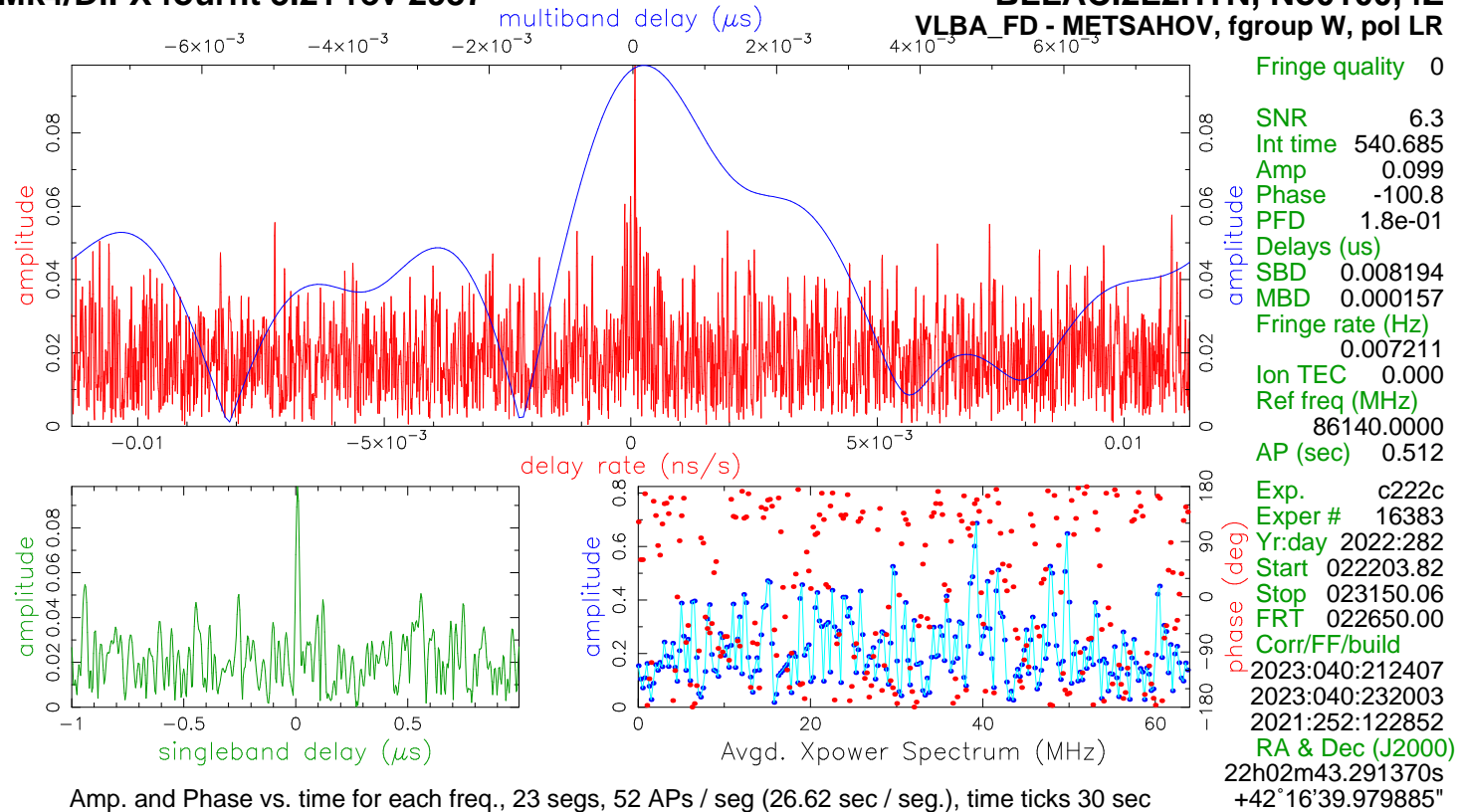
Exp. c222c
 Exper # 16383
 Yr:day 2022:282
 Start 022203.82
 Stop 023150.06
 FRT 022650.00
 Corr/FF/build
 2023:040:212407
 2023:040:231957
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 52 APs / seg (26.62 sec / seg.), time ticks 30 sec

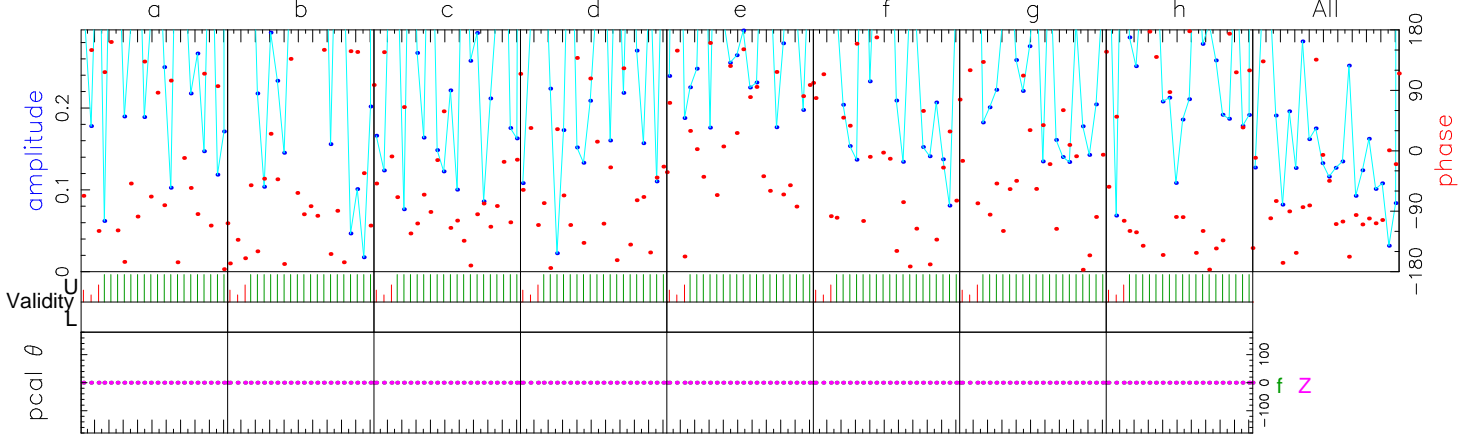


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-150.4	177.8	-141.9	163.4	-107.4	-154.9	-117.2	95.2	Phase	-156.3
	0.3	0.3	0.3	0.2	0.2	0.3	0.4	0.3	Ampl.	0.3
	258.3	259.4	258.9	257.8	258.6	258.3	258.2	257.2	Sbd box	259.1
U/L	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	9.97581028486E+03		Apriori delay (usec)		9.97580974922E+03		Resid mbdelay (usec)		5.35647E-04	+/- 7.8E-05
Sband delay (usec)	9.97581796947E+03		Apriori clock (usec)		2.0861578E+01		Resid sbdelay (usec)		8.22025E-03	+/- 6.2E-04
Phase delay (usec)	9.97580974418E+03		Apriori clockrate (us/s)		3.1816160E-08		Resid phdelay (usec)		-5.03944E-06	+/- 2.7E-07
Delay rate (us/s)	8.88019195031E-01		Apriori rate (us/s)		8.88019109956E-01		Resid rate (us/s)		8.50751E-08	+/- 8.3E-10
Total phase (deg)	130.8		Apriori accel (us/s/s)		-8.02077595999E-05		Resid phase (deg)		-156.3	+/- 8.3

ph/seg (deg) 65.6 19.4 Search (4096X32) 0.218 +/- 0.016 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 86.8 33.8 Interp. 0.214 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 55.1 11.7 Inc. seg. avg. 0.370 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.4 20.4 Inc. frq. avg. 0.293 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 50.3 el 68.8 pa -114.7 Z: az 305.9 el 28.9 pa 33.5 u,v (fr/asec) -7148.696 -7945.395 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fZ..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fZ.W.4.2L2HTN



Amp. and Phase vs. time for each freq., 23 segs, 52 APs / seg (26.62 sec / seg.), time ticks 30 sec



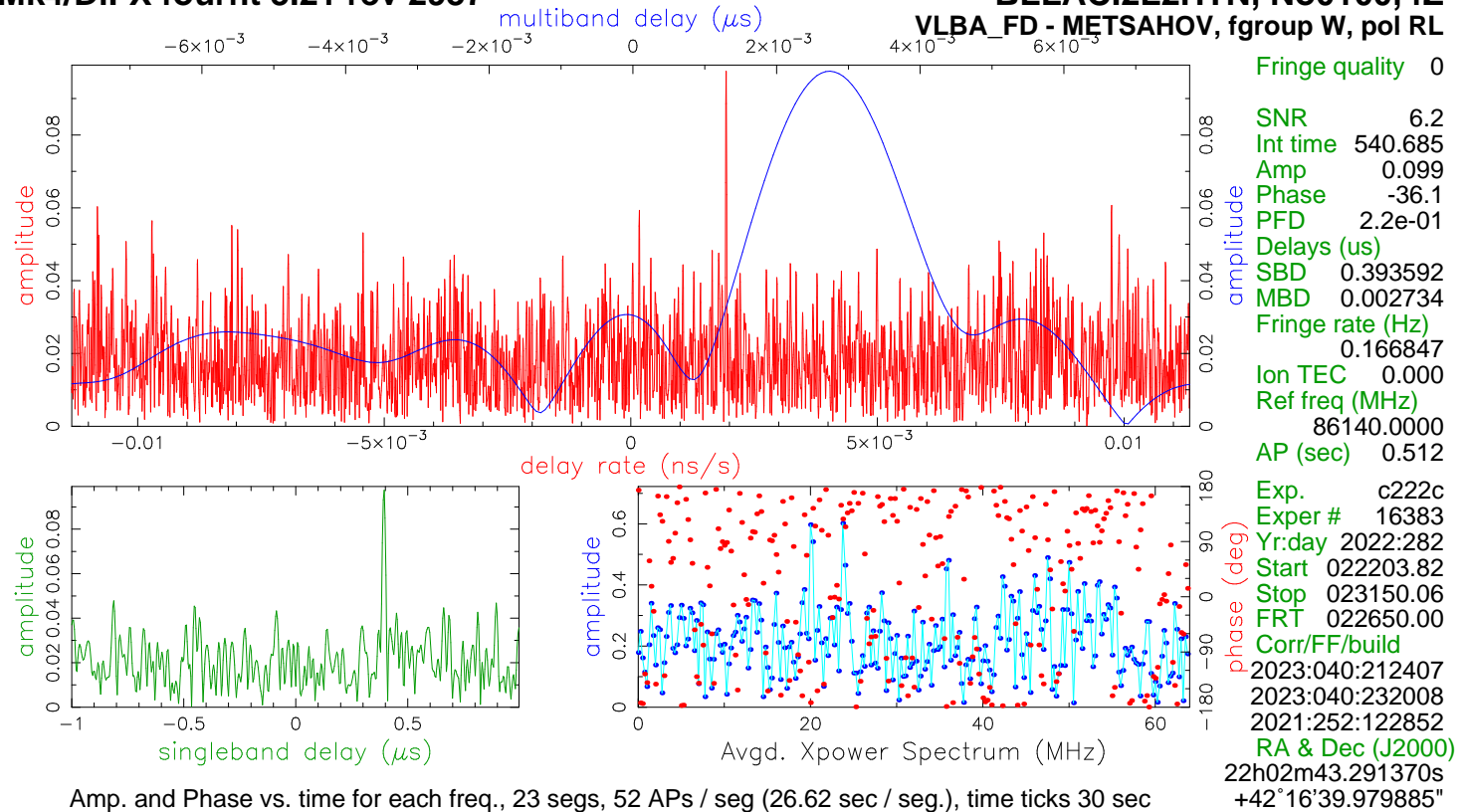
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-123.7	-116.3	-85.8	-106.8	-10.8	-86.9	-41.5	-160.1	Phase	-100.8
	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
	55.9	258.4	259.8	508.1	23.1	349.0	158.7	259.5	Sbd box	259.1
U/L	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	9.97582553152E+03	Apriori delay (usec)	9.97580974922E+03	Resid mbdelay (usec)	1.57304E-04	+/-	1.7E-04
Sband delay (usec)	9.97581794297E+03	Apriori clock (usec)	2.0861578E+01	Resid sbdelay (usec)	8.19375E-03	+/-	1.4E-03
Phase delay (usec)	9.97580974596E+03	Apriori clockrate (us/s)	3.1816160E-08	Resid phdelay (usec)	-3.25164E-06	+/-	5.9E-07
Delay rate (us/s)	8.88019193664E-01	Apriori rate (us/s)	8.88019109956E-01	Resid rate (us/s)	8.37079E-08	+/-	1.8E-09
Total phase (deg)	186.2	Apriori accel (us/s/s)	-8.02077595999E-05	Resid phase (deg)	-100.8	+/-	18.3

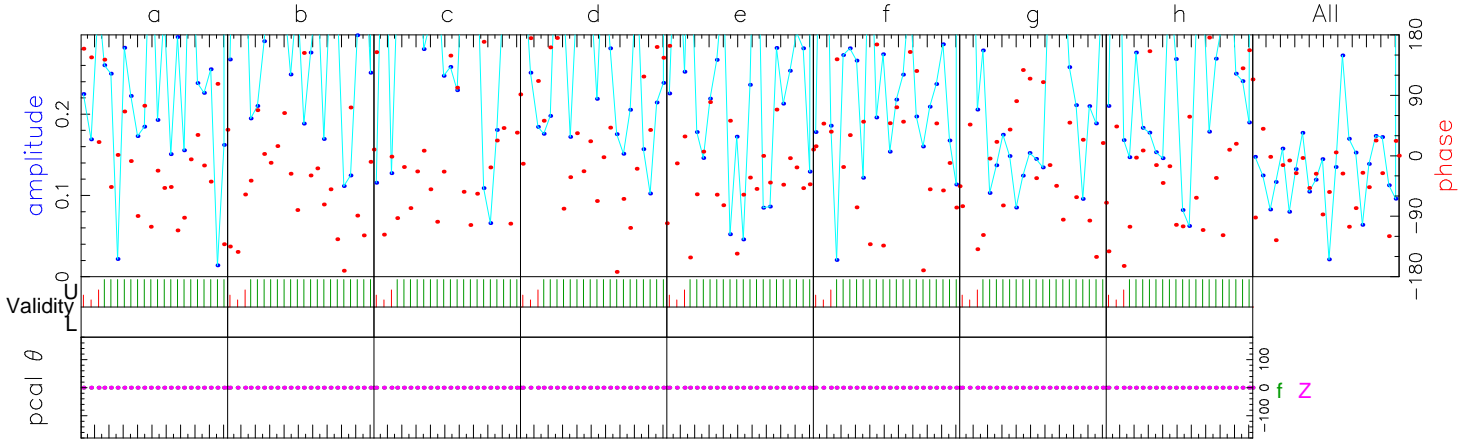
ph/seg (deg)	56.0	RMS	42.9	Theor.	56.0	Amplitude	0.099 +/- 0.016	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	88.8	Search (4096X32)	0.097	Inc. seg. avg.	0.115	Inc. frq. avg.	0.118	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	52.2	Interp.	0.000	Inc. seg. avg.	0.115	Inc. frq. avg.	0.118	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	49.5	Inc. seg. avg.	0.115	Inc. frq. avg.	0.118	Inc. frq. avg.	0.118	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
		Inc. frq. avg.	0.118	Inc. frq. avg.	0.118	Inc. frq. avg.	0.118	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

f: az 50.3 el 68.8 pa -114.7 Z: az 305.9 el 28.9 pa 33.5 u,v (fr/asec) -7148.696 -7945.395 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fZ..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fZ.W.6.2L2HTN



Amp. and Phase vs. time for each freq., 23 segs, 52 APs / seg (26.62 sec / seg.), time ticks 30 sec



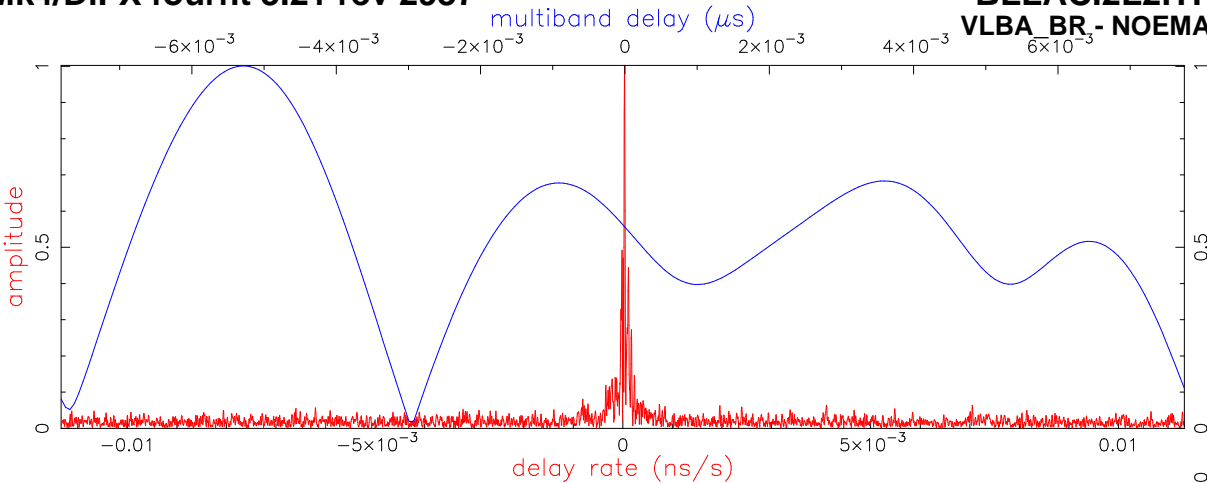
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-34.5	-44.1	-41.6	-4.5	-38.6	7.5	-39.0	-47.8	Phase	-36.1
	0.1	0.1	0.2	0.1	0.1	0.0	0.1	0.1	Ampl.	0.1
	79.0	357.8	357.8	46.4	484.9	409.5	234.1	67.8	Sbd box	357.8
U/L	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	9.97620310836E+03	Apriori delay (usec)	9.97580974922E+03	Resid mbdelay (usec)	2.73415E-03	+/-	1.7E-04
Sband delay (usec)	9.97620334147E+03	Apriori clock (usec)	2.0861578E+01	Resid sbdelay (usec)	3.93592E-01	+/-	1.4E-03
Phase delay (usec)	9.97580974805E+03	Apriori clockrate (us/s)	3.1816160E-08	Resid phdelay (usec)	-1.16519E-06	+/-	5.9E-07
Delay rate (us/s)	8.88021046888E-01	Apriori rate (us/s)	8.88019109956E-01	Resid rate (us/s)	1.93693E-06	+/-	1.8E-09
Total phase (deg)	250.9	Apriori accel (us/s/s)	-8.02077595999E-05	Resid phase (deg)	-36.1	+/-	18.4

ph/seg (deg)	44.3	Theor.	43.1	Search (4096X32)	0.095	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	68.6		75.2	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	22.9		26.0	Inc. seg. avg.	0.103	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	40.1		45.4	Inc. frq. avg.	0.092	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

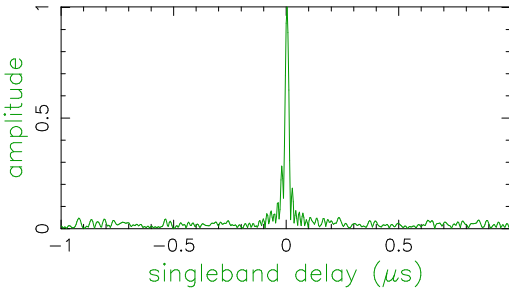
f: az 50.3 el 68.8 pa -114.7 Z: az 305.9 el 28.9 pa 33.5 u,v (fr/asec) -7148.696 -7945.395 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fZ..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fZ.W.8.2L2HTN

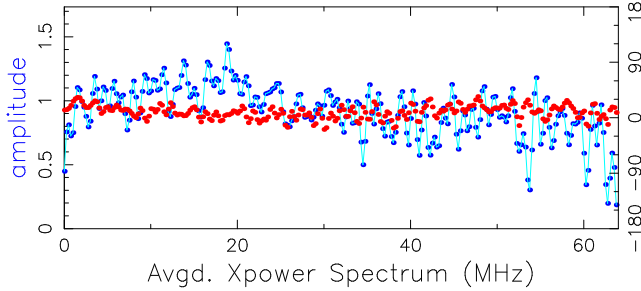


Fringe quality 2

SNR 67.1
Int time 599.856
Amp 1.003
Phase 110.5
PFD 0.0e+00
Delays (us)
SBD 0.003450
MBD -0.005291
Fringe rate (Hz)
0.002879
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

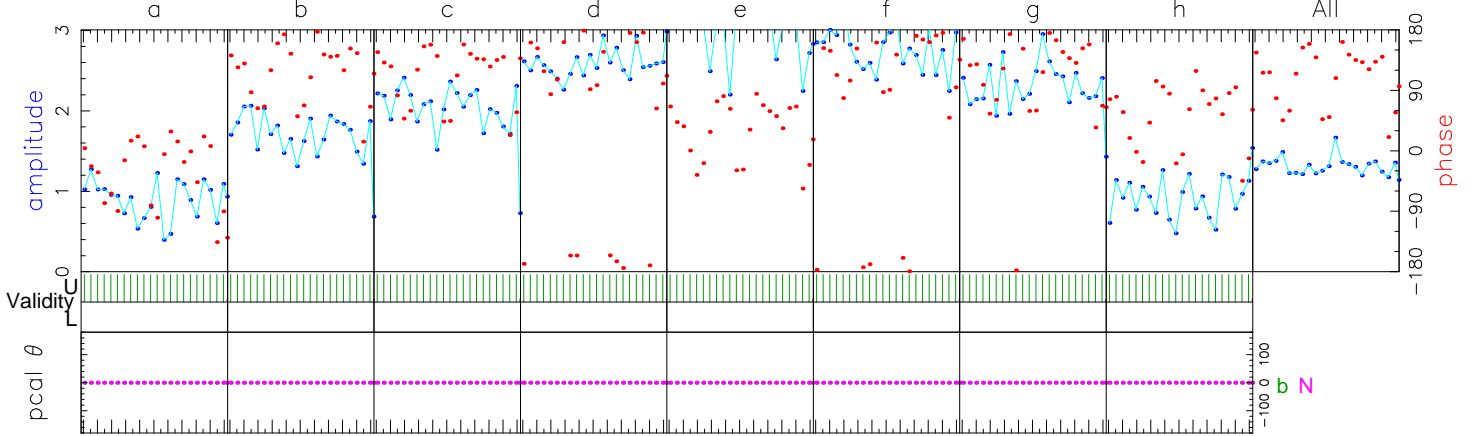


delay rate (ns/s)



Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232020
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



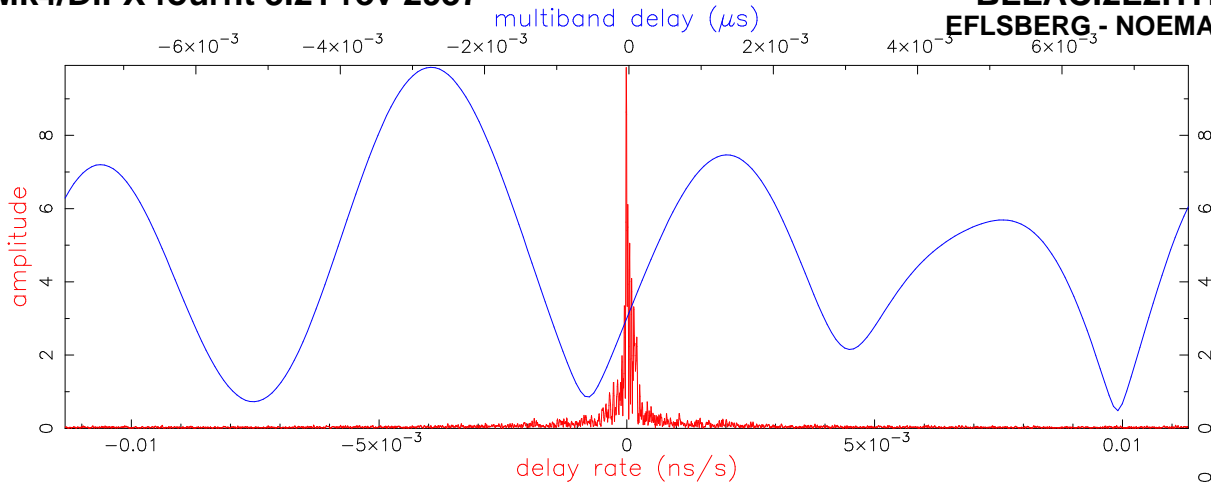
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-29.1	118.4	112.2	154.8	33.7	144.9	124.4	53.0	Phase	110.5
	0.6	1.3	1.5	1.9	2.3	2.1	1.7	0.7	Ampl.	1.5
	255.8	257.7	258.4	258.1	258.0	258.0	257.3	255.3	Sbd box	257.9
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	8.97168056555E+03	Apriori delay (usec)	8.97167023122E+03	Resid mbdelay (usec)	-5.29067E-03	+/-	1.6E-05
Sband delay (usec)	8.97167368097E+03	Apriori clock (usec)	1.1894854E+01	Resid sbdelay (usec)	3.44975E-03	+/-	1.3E-04
Phase delay (usec)	8.97167023478E+03	Apriori clockrate (us/s)	-3.3918999E-07	Resid phdelay (usec)	3.56203E-06	+/-	5.5E-08
Delay rate (us/s)	1.26951313211E+00	Apriori rate (us/s)	1.26951309869E+00	Resid rate (us/s)	3.34198E-08	+/-	1.6E-10
Total phase (deg)	8.6	Apriori accel (us/s/s)	-4.44569406147E-05	Resid phase (deg)	110.5	+/-	1.7

ph/seg (deg)	42.1	RMS	4.1	Theor.	4.1	Amplitude	1.003 +/- 0.015	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	33.3	Search (4096X32)	0.999	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	73.1	Inc. seg. avg.	1.315	Inc. frq. avg.	1.520	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	77.7	Inc. frq. avg.	1.520	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 88.0 el 63.0 pa -64.4 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -9984.748 -2699.144 simultaneous interpolator

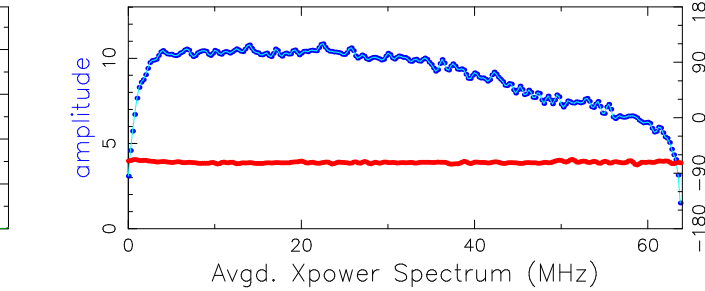
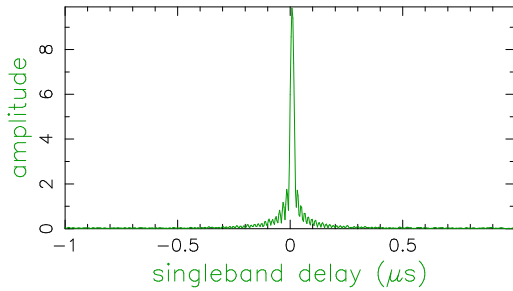
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/bN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/bN.W.11.2L2HTN



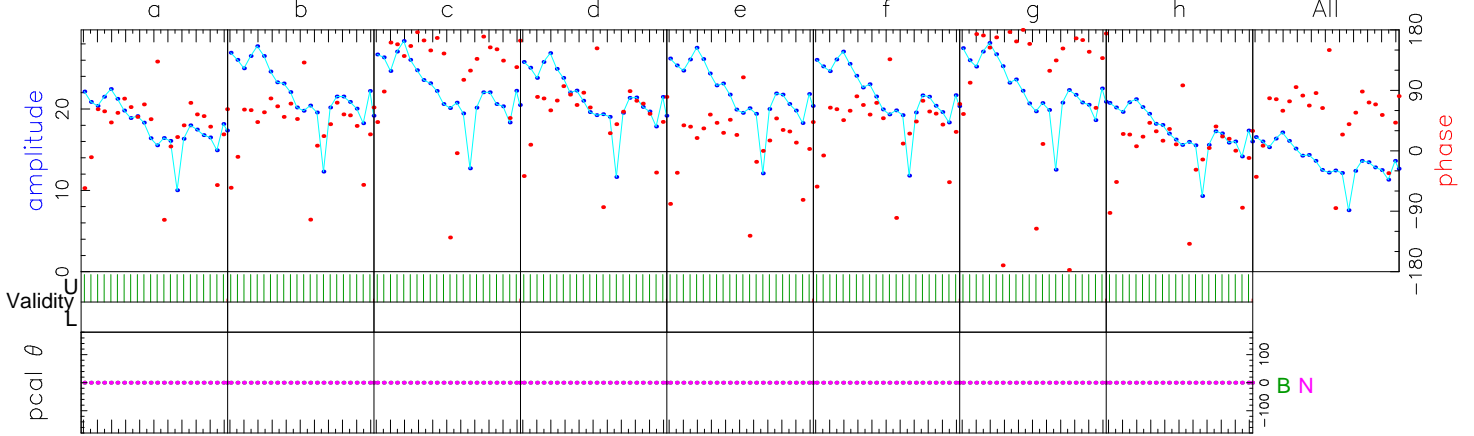
Fringe quality 1

SNR 663.8
Int time 599.978
Amp 9.910
Phase 58.9
PFD 0.0e+00
Delays (us)
SBD 0.008785
MBD -0.002715
Fringe rate (Hz)
-0.000749
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:231950
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"



Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



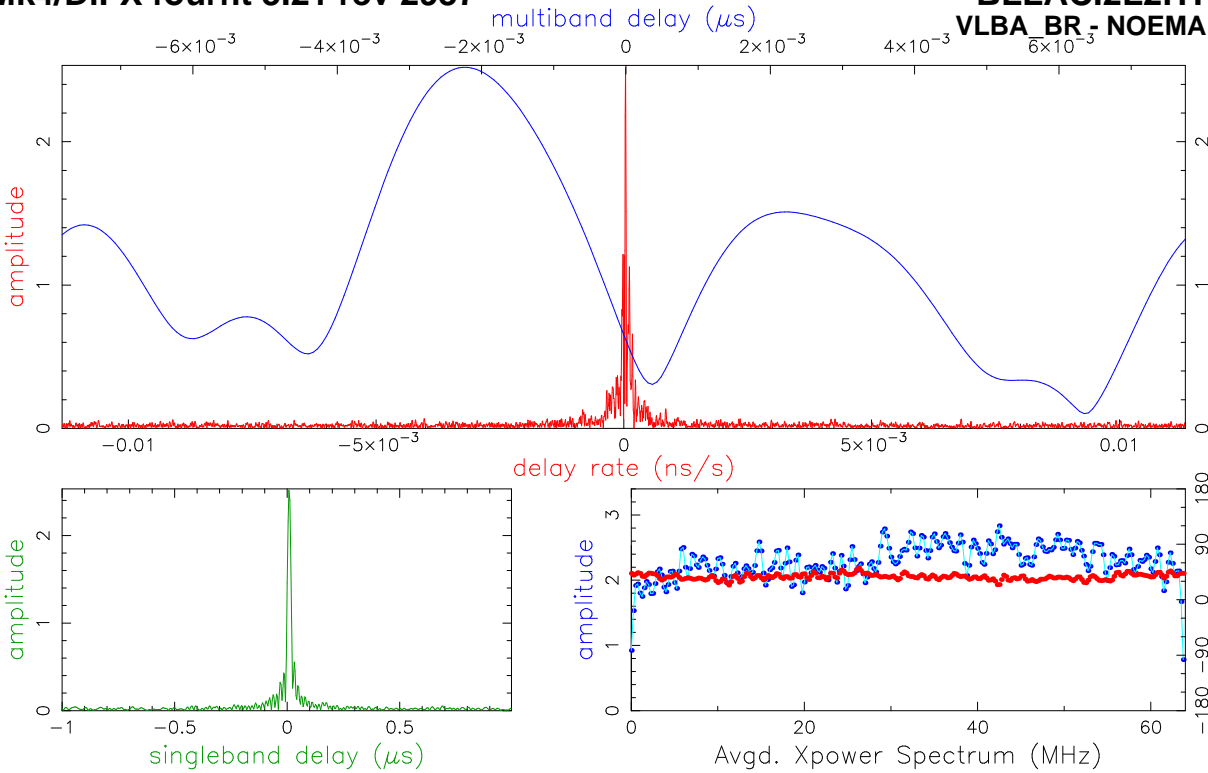
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	41.5	42.2	140.7	60.2	18.7	45.0	153.8	6.4	Phase	58.9
	13.0	16.0	16.0	15.4	15.8	15.6	16.2	12.4	Ampl.	15.1
	257.5	258.5	259.6	259.5	259.7	259.5	259.1	257.9	Sbd box	259.2
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	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	

Group delay (usec)(sbd)	7.90944230843E+02	Apriori delay (usec)		7.90931321286E+02	Resid mbdelay (usec)		-2.71544E-03	+/-	1.6E-06	
Sband delay (usec)	7.90940106536E+02	Apriori clock (usec)		-1.5403244E+01	Resid sbdelay (usec)		8.78525E-03	+/-	1.3E-05	
Phase delay (usec)	7.90931323187E+02	Apriori clockrate (us/s)		2.2999999E-08	Resid phdelay (usec)		1.90076E-06	+/-	5.6E-09	
Delay rate (us/s)	8.70776047032E-02	Apriori rate (us/s)		8.70776134036E-02	Resid rate (us/s)		-8.70038E-09	+/-	1.6E-11	
Total phase (deg)	64.6		Apriori accel (us/s/s)		9.74944063258E-07	Resid phase (deg)		58.9	+/-	0.2

ph/seg (deg)	RMS 50.5	Theor. 0.4	Amplitude 9.910 +/- 0.015	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		sb window (us)	-1.000	1.000
amp/seg (%)	43.8	0.7	Search (4096X32) 9.489	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled		mb window (us)	-0.008	0.008
ph/frq (deg)	58.9	0.2	Interp. 0.000	Bits/sample: 2x2	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011
amp/frq (%)	53.8	0.4	Inc. seg. avg. 13.697	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		ion window (TEC)	0.00	0.00
			Inc. frq. avg. 15.061						

B: az 299.4 el 32.1 pa 48.7 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -671.072 537.206 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/BN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/BN.W.1.2L2HTN

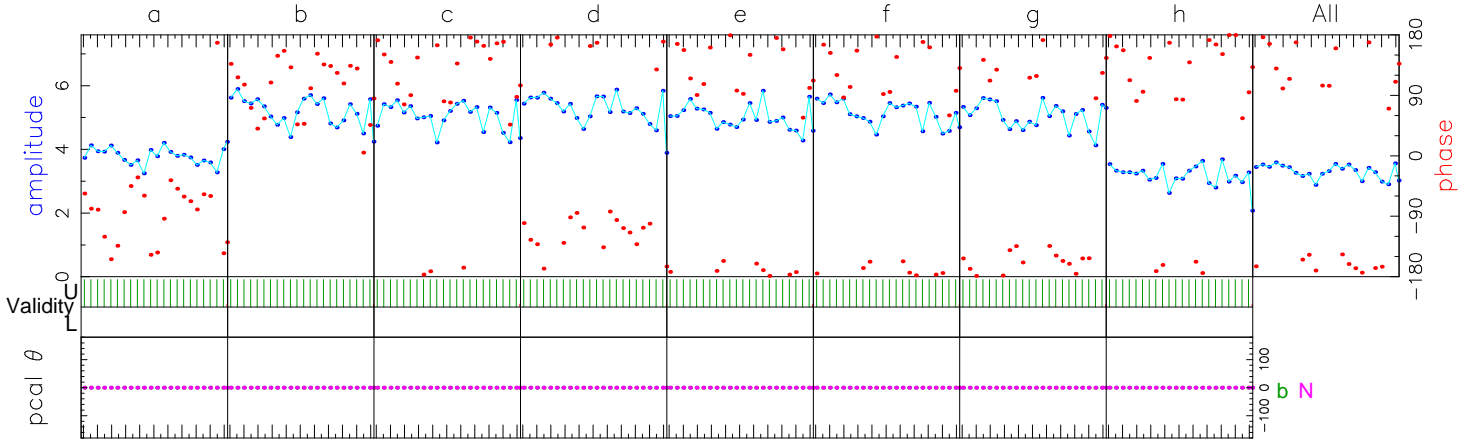


Fringe quality 2

SNR 169.6
Int time 599.856
Amp 2.533
Phase 163.9
PFD 0.0e+00
Delays (us)
SBD 0.008829
MBD -0.002153
Fringe rate (Hz)
0.002893
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232025
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

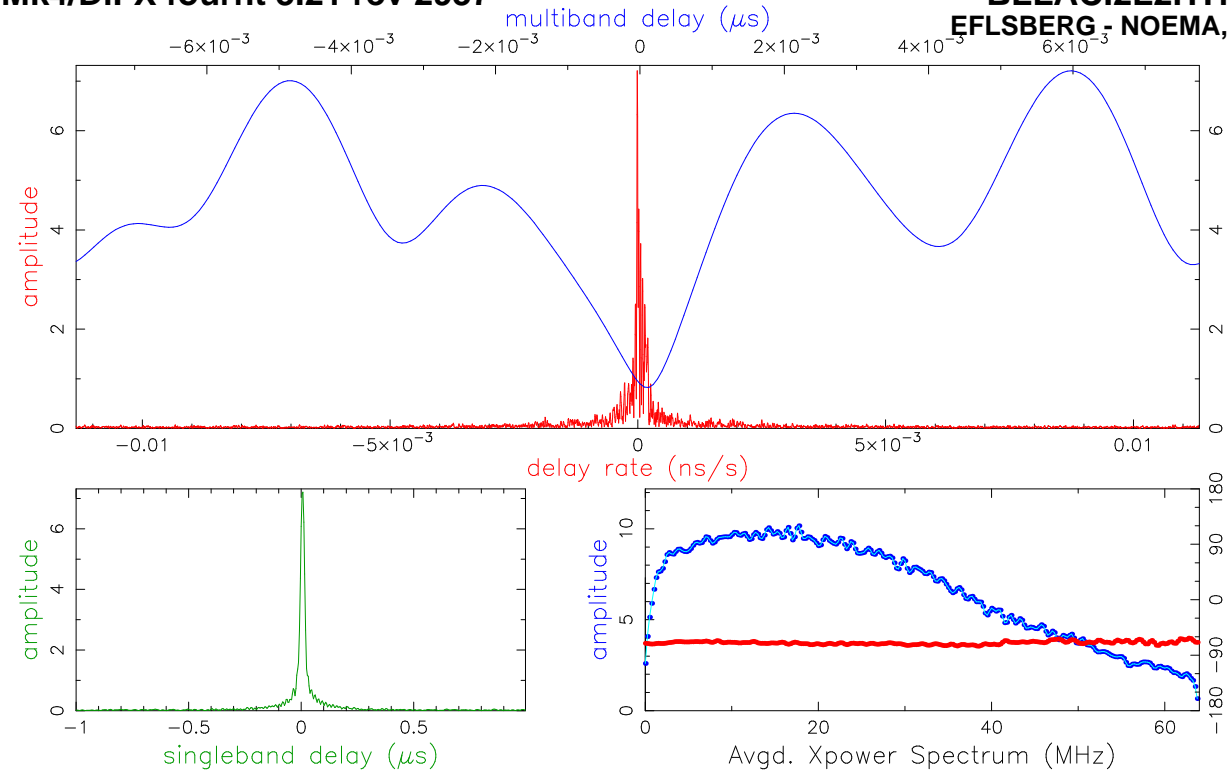


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-87.5	103.9	140.2	-134.3	153.6	152.5	177.0	147.9	Phase	163.9
	2.8	4.0	3.8	4.0	3.8	3.9	3.9	2.4	Ampl.	3.6
	257.2	259.4	259.6	259.4	259.7	259.3	258.6	256.8	Sbd box	259.3
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	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	
									Tracks	
Group delay (usec)(sbd)	8.97168370361E+03		Apriori delay (usec)		8.97167023122E+03		Resid mbdelay (usec)		-2.15261E-03	+/- 6.4E-06
Sband delay (usec)	8.97167905972E+03		Apriori clock (usec)		1.1894854E+01		Resid sbdelay (usec)		8.82850E-03	+/- 5.1E-05
Phase delay (usec)	8.97167023650E+03		Apriori clockrate (us/s)		-3.3918999E-07		Resid phdelay (usec)		5.28440E-06	+/- 2.2E-08
Delay rate (us/s)	1.26951313228E+00		Apriori rate (us/s)		1.26951309869E+00		Resid rate (us/s)		3.35878E-08	+/- 6.3E-11
Total phase (deg)			Apriori accel (us/s/s)		-4.44569406147E-05		Resid phase (deg)		163.9	+/- 0.7

	RMS	Theor.	Amplitude	2.533 +/- 0.015	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	42.2	1.6	Search (4096X32)	2.490	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	32.0	2.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	58.4	1.0	Inc. seg. avg.	3.315	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	46.9	1.7	Inc. frq. avg.	3.573	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

b: az 88.0 el 63.0 pa -64.4 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -9984.748 -2699.144 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/bN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/bN.W.25.2L2HTN

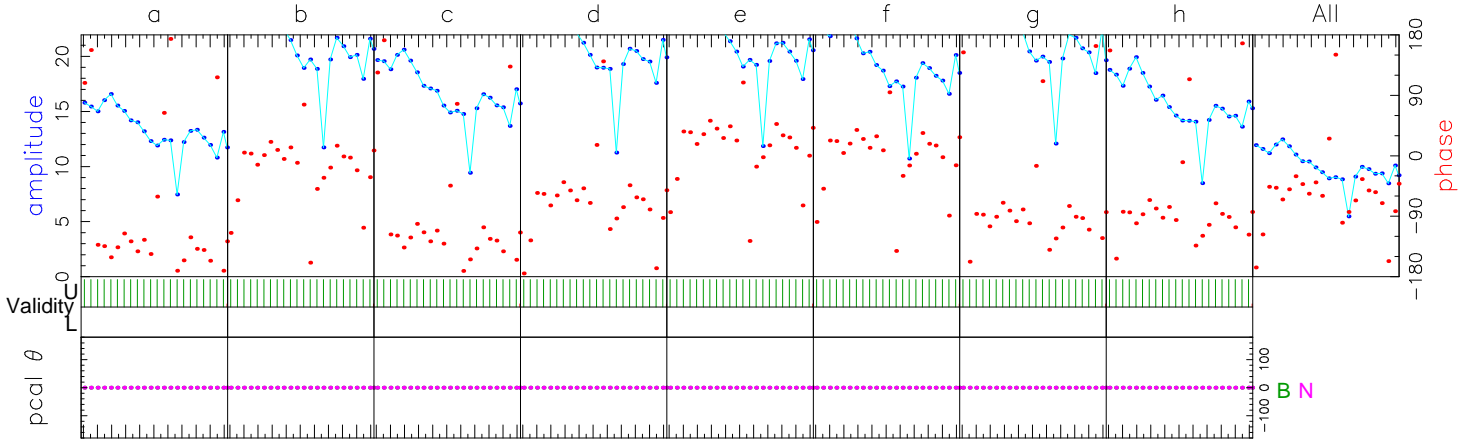


Fringe quality 1

SNR 490.1
Int time 599.978
Amp 7.318
Phase -64.9
PFD 0.0e+00
Delays (us)
SBD 0.006064
MBD 0.005968
Fringe rate (Hz)
-0.000745
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:231956
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-151.2	-14.2	-136.2	-74.3	17.4	3.9	-104.8	-101.0	Phase	-64.9
	9.6	15.4	12.0	15.2	15.4	14.0	15.9	11.3	Ampl.	13.6
	256.6	258.6	259.3	259.2	259.5	259.2	259.1	257.6	Sbd box	258.6
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	7.90937289718E+02		Apriori delay (usec)		7.90931321286E+02		Resid mbdelay (usec)		5.96843E-03	+/- 2.2E-06
Sband delay (usec)	7.90937385286E+02		Apriori clock (usec)		-1.5403244E+01		Resid sbdelay (usec)		6.06400E-03	+/- 1.8E-05
Phase delay (usec)	7.90931319194E+02		Apriori clockrate (us/s)		2.2999999E-08		Resid phdelay (usec)		-2.09223E-06	+/- 7.5E-09
Delay rate (us/s)	8.70776047557E-02		Apriori rate (us/s)		8.70776134036E-02		Resid rate (us/s)		-8.64795E-09	+/- 2.2E-11
Total phase (deg)			Apriori accel (us/s/s)		9.74944063258E-07		Resid phase (deg)		-64.9	+/- 0.2

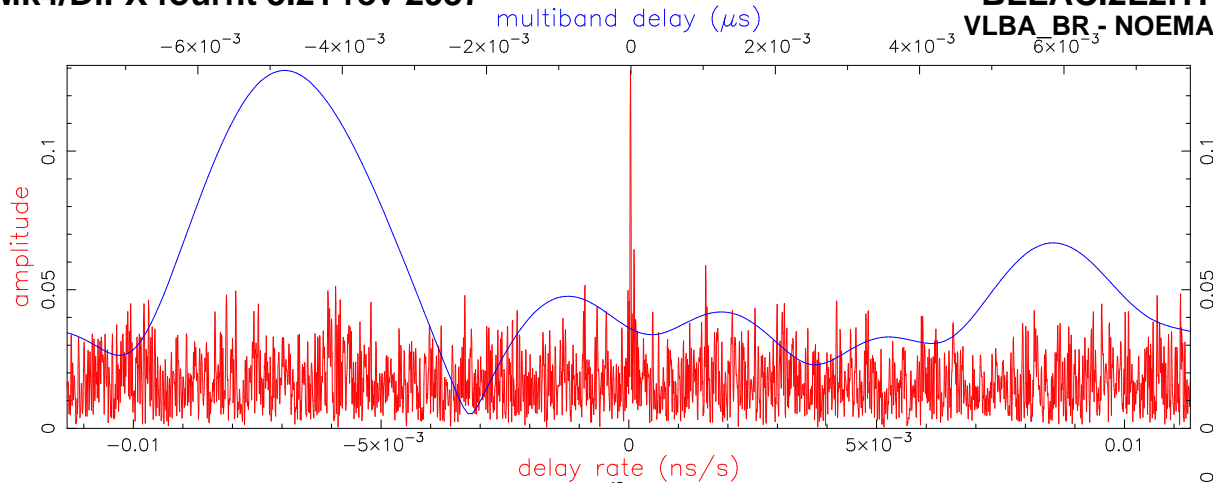
	RMS	Theor.	Amplitude	7.318 +/- 0.015	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	50.8	0.6	Search (4096X32)	6.990	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	42.6	1.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	70.2	0.3	Inc. seg. avg.	10.036	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	91.0	0.6	Inc. frq. avg.	13.602	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

B: az 299.4 el 32.1 pa 48.7 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -671.072 537.206 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/BN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/BN.W.3.2L2HTN

Mk4/DiFX fourfit 3.21 rev 2937

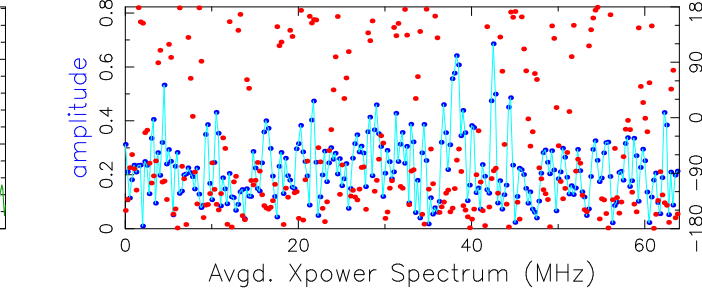
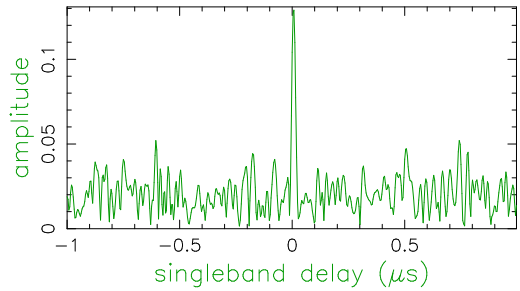
BLLAC.2L2HTN, No0100, bN
VLBA_BR - NOEMA, fgroup W, pol LR



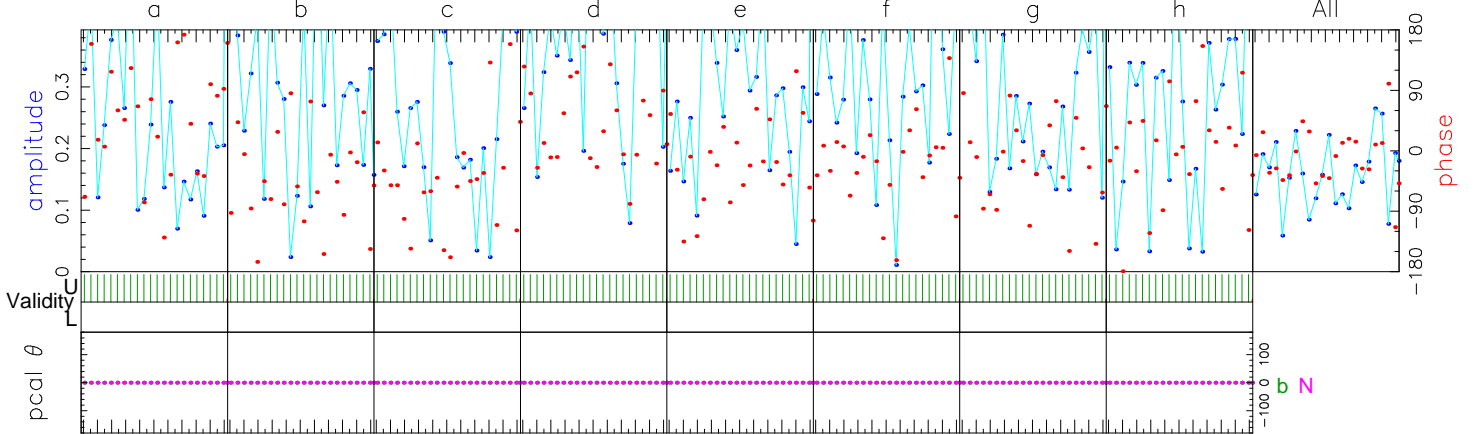
Fringe quality 9

SNR 8.8
Int time 599.856
Amp 0.131
Phase -10.3
PFD 1.3e-09
Delays (us)
SBD 0.006159
MBD -0.004872
Fringe rate (Hz) 0.003031
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c222c
Yr:day 16383
Start 2023:040:212407
Stop 2023:040:232031
FRT 022650.00
Corr/FF/build
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"



Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



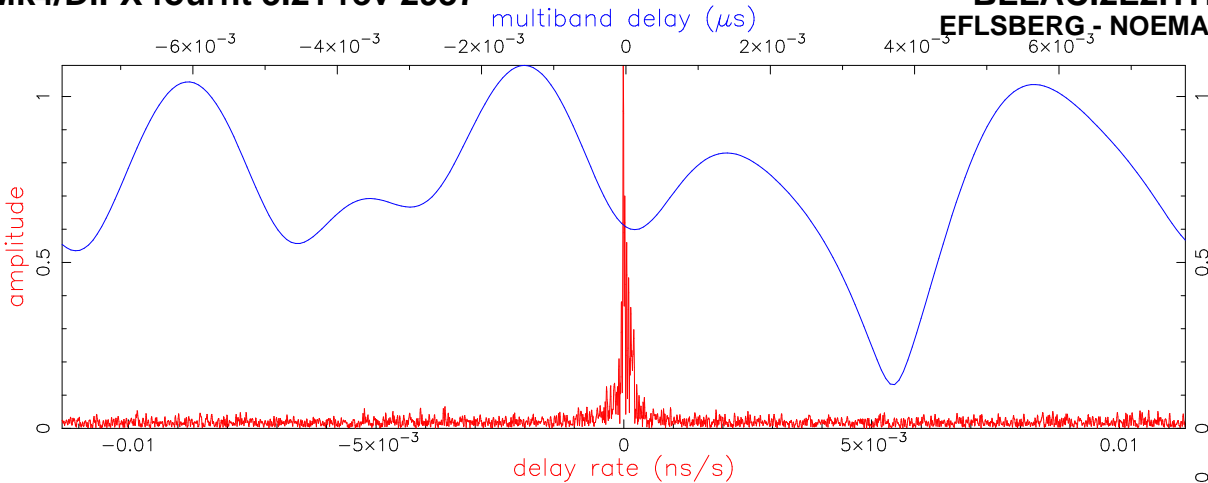
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0		
b	0	0	0	0	0	0	0	0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	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	

Group delay (usec)(sbd)	8.97168098442E+03	Apriori delay (usec)	8.97167023122E+03	Resid mbdelay (usec)	-4.87179E-03	+/-	1.2E-04
Sband delay (usec)	8.97167638997E+03	Apriori clock (usec)	1.1894854E+01	Resid sbdelay (usec)	6.15875E-03	+/-	9.8E-04
Phase delay (usec)	8.97167023089E+03	Apriori clockrate (us/s)	-3.3918999E-07	Resid phdelay (usec)	-3.31688E-07	+/-	4.2E-07
Delay rate (us/s)	1.26951313388E+00	Apriori rate (us/s)	1.26951309869E+00	Resid rate (us/s)	3.51884E-08	+/-	1.2E-09
Total phase (deg)	247.8	Apriori accel (us/s/s)	-4.44569406147E-05	Resid phase (deg)	-10.3	+/-	13.1

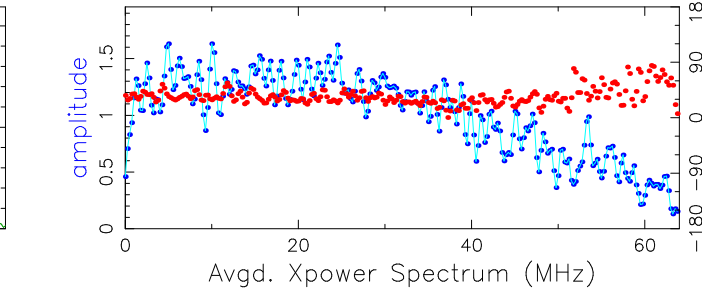
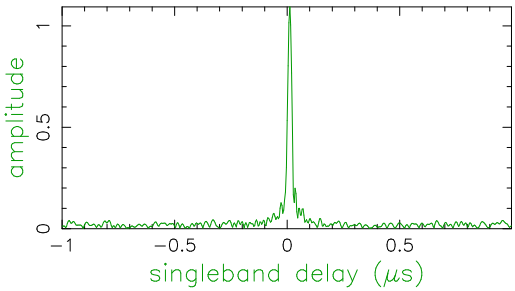
ph/seg (deg)	41.4	Theor.	31.3	Amplitude	0.131 +/- 0.015	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	47.3		54.7	Search (4096X32)	0.127	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	49.9		18.5	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	40.1		32.3	Inc. seg. avg.	0.139	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.156	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 88.0 el 63.0 pa -64.4 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -9984.748 -2699.144 simultaneous interpolator

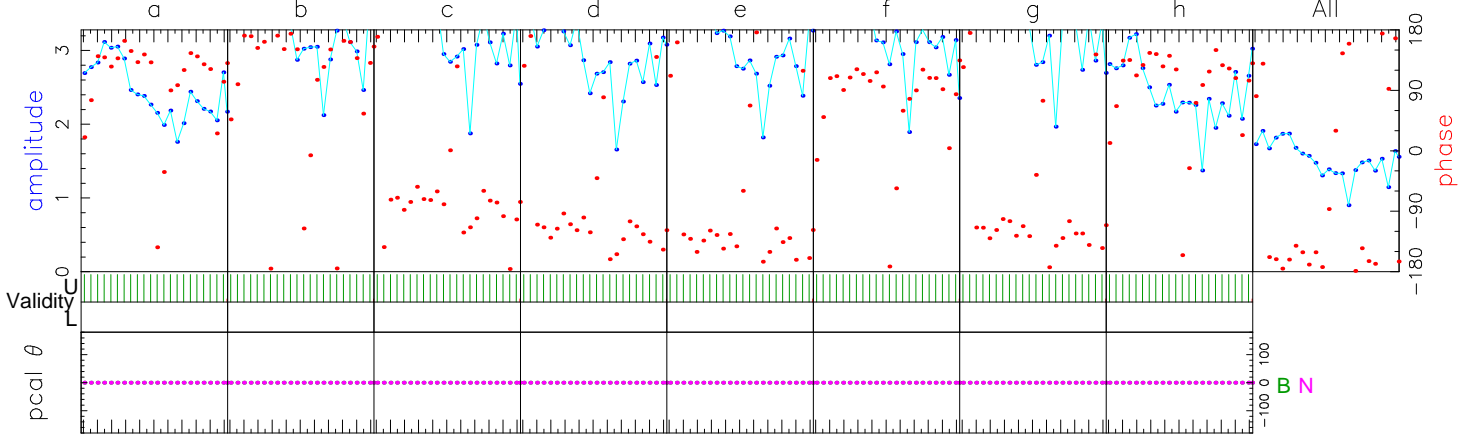
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/bN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/bN.W.50.2L2HTN



Fringe quality 1
 SNR 73.3
 Int time 599.978
 Amp 1.094
 Phase -176.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.011619
 MBD -0.001408
 Fringe rate (Hz)
 -0.000780
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c222c
 Exper # 16383
 Yr:day 2022:282
 Start 022150.00
 Stop 023150.06
 FRT 022650.00
 Corr/FF/build
 2023:040:212407
 2023:040:232001
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

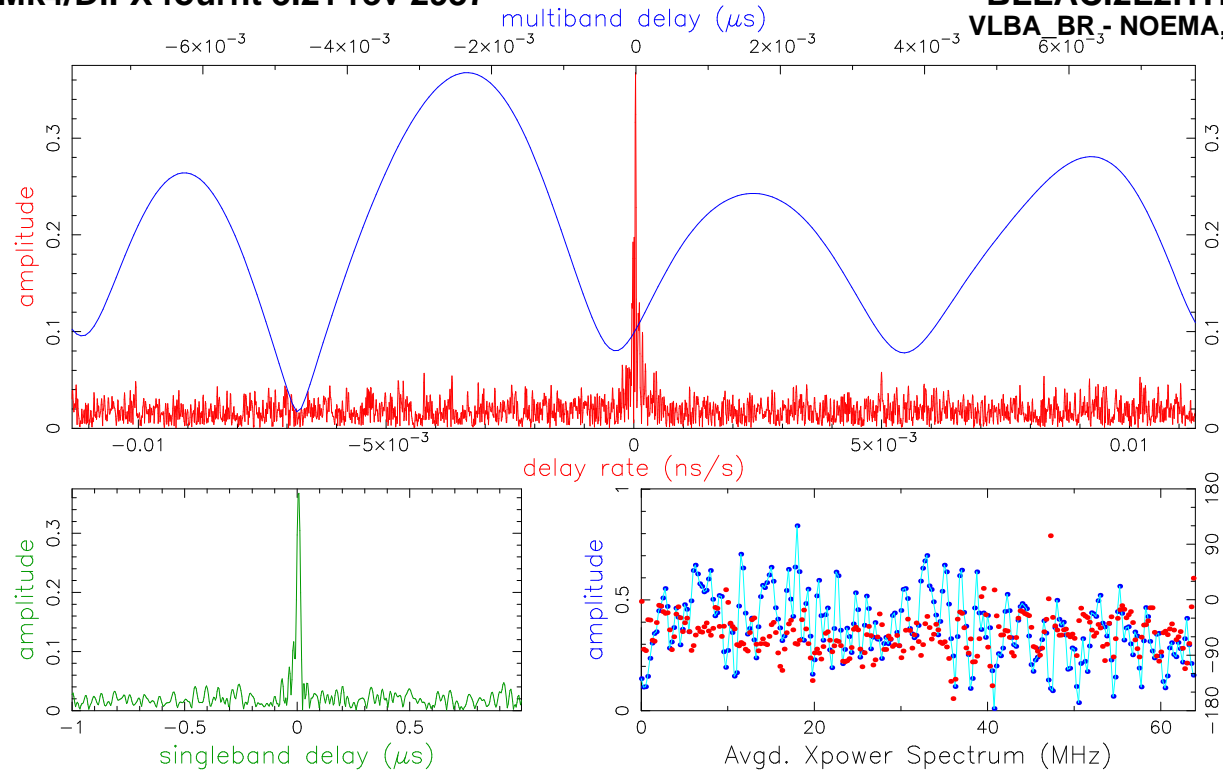


Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	123.7	149.3	-88.5	-130.3	-148.0	93.9	-131.9	114.8	Phase	-176.8
	1.8	2.3	2.4	2.1	2.2	2.3	2.5	1.7	Ampl.	2.2
	258.0	259.3	260.1	260.3	260.5	260.1	259.7	258.6	Sbd box	260.0
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	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	
									Tracks	
Group delay (usec)(sbd)	7.90945538155E+02		Apriori delay (usec)		7.90931321286E+02		Resid mbdelay (usec)		-1.40813E-03	+/- 1.5E-05
Sband delay (usec)	7.90942940036E+02		Apriori clock (usec)		-1.5403244E+01		Resid sbdelay (usec)		1.16188E-02	+/- 1.2E-04
Phase delay (usec)	7.90931315585E+02		Apriori clockrate (us/s)		2.2999999E-08		Resid phdelay (usec)		-5.70068E-06	+/- 5.0E-08
Delay rate (us/s)	8.70776043472E-02		Apriori rate (us/s)		8.70776134036E-02		Resid rate (us/s)		-9.05643E-09	+/- 1.5E-10
Total phase (deg)			Apriori accel (us/s/s)		9.74944063258E-07		Resid phase (deg)		-176.8	+/- 1.6

ph/seg (deg) 52.2 3.8 Search (4096X32) 1.072 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 45.2 6.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 70.9 2.2 Inc. seg. avg. 1.521 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 102.1 3.9 Inc. frq. avg. 2.176 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 299.4 el 32.1 pa 48.7 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -671.072 537.206 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/BN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/BN.W.5.2L2HTN

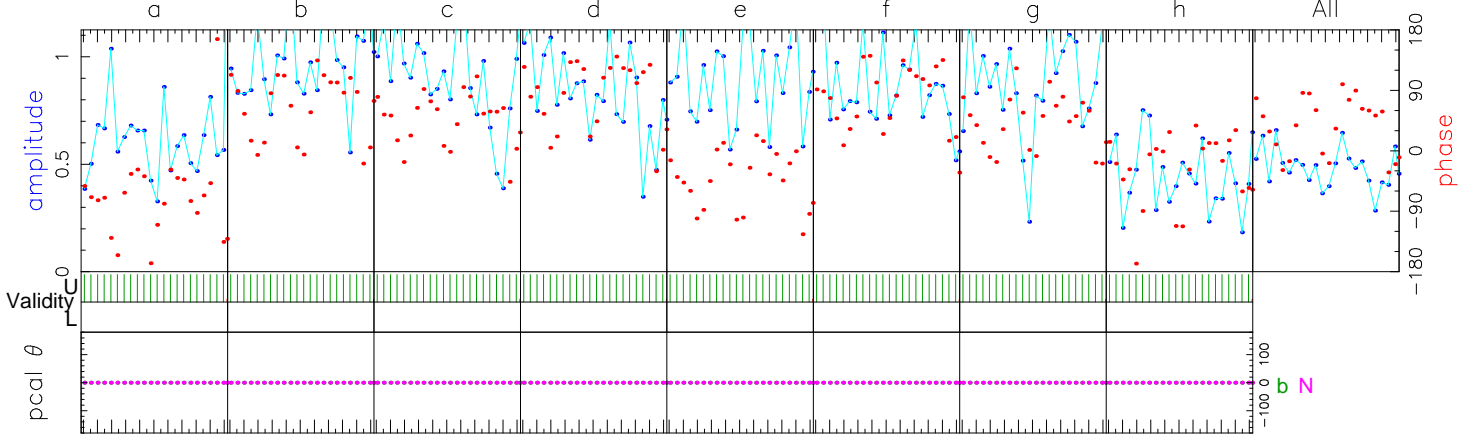


Fringe quality 6

SNR 25.1
Int time 599.856
Amp 0.375
Phase 41.3
PFD 0.0e+00
Delays (us)
SBD 0.005981
MBD -0.002303
Fringe rate (Hz) 0.002833
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232037
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

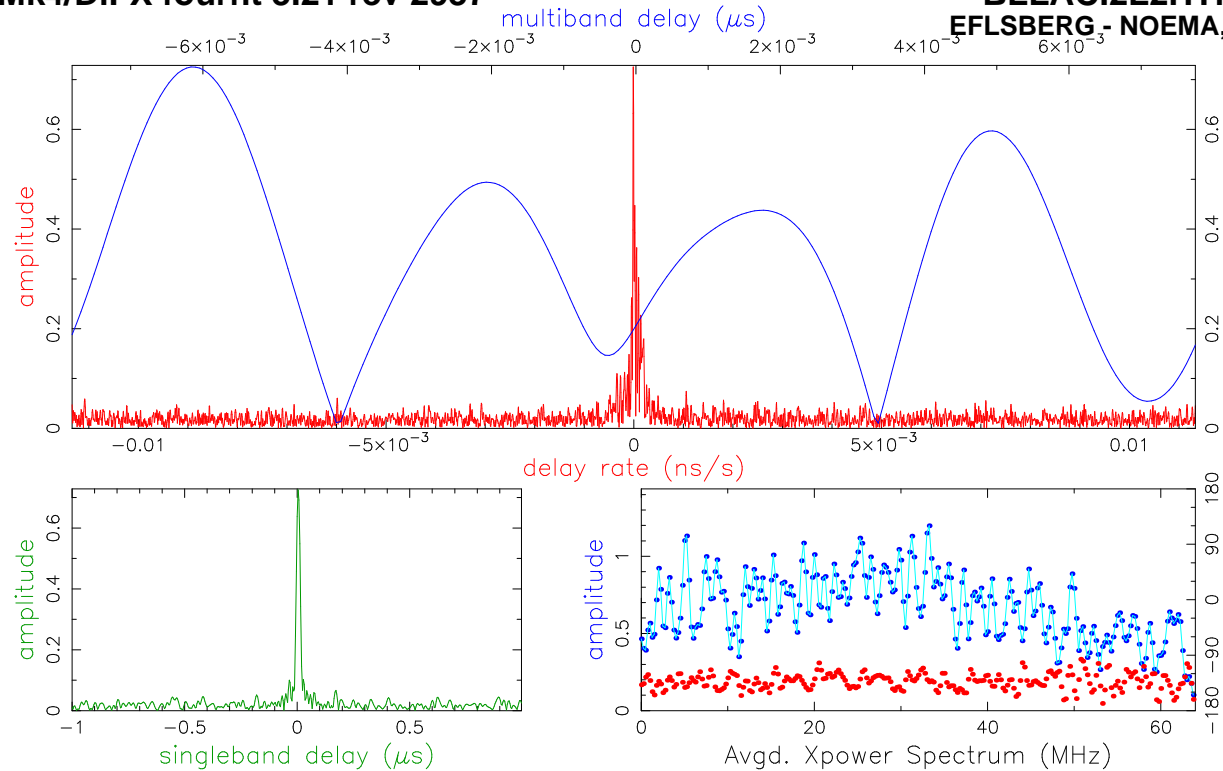


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-75.5	67.2	47.8	91.3	-36.3	86.2	43.3	-19.1	Phase	41.3
	0.4	0.7	0.7	0.6	0.7	0.7	0.7	0.3	Ampl.	0.6
	256.7	258.5	259.0	258.7	259.0	258.7	257.9	256.0	Sbd box	258.5
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) 8.97168355289E+03 Apriori delay (usec) 8.97167023122E+03 Resid mbdelay (usec) -2.30333E-03 +/- 4.3E-05
 Sband delay (usec) 8.97167621222E+03 Apriori clock (usec) 1.1894854E+01 Resid sbdelay (usec) 5.98100E-03 +/- 3.4E-04
 Phase delay (usec) 8.97167023255E+03 Apriori clockrate (us/s) -3.3918999E-07 Resid phdelay (usec) 1.33064E-06 +/- 1.5E-07
 Delay rate (us/s) 1.26951313159E+00 Apriori rate (us/s) 1.26951309869E+00 Resid rate (us/s) 3.28923E-08 +/- 4.2E-10
 Total phase (deg) 299.4 Apriori accel (us/s/s) -4.44569406147E-05 Resid phase (deg) 41.3 +/- 4.6

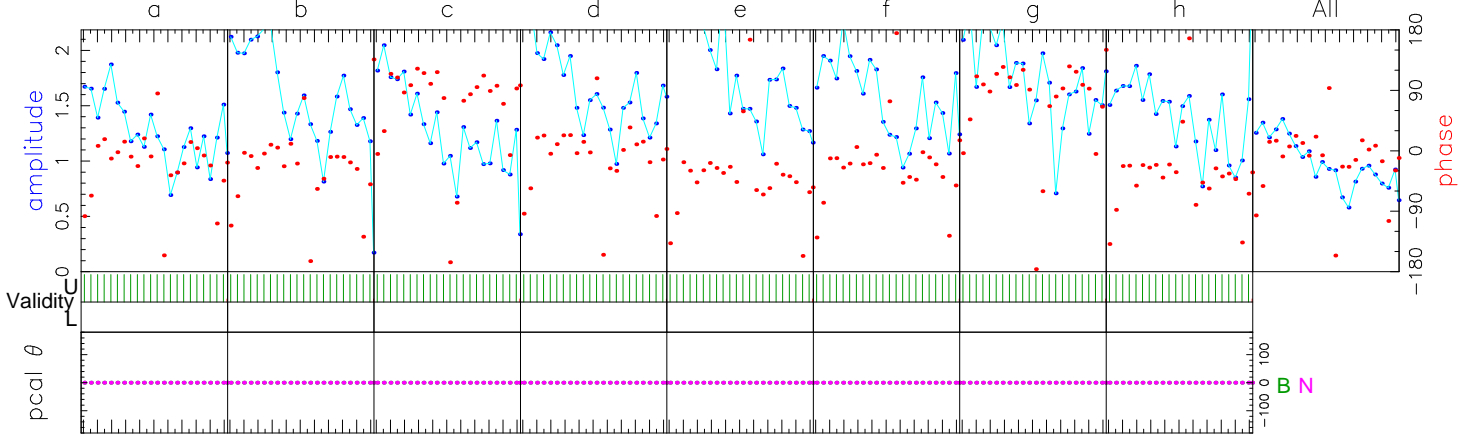
RMS Theor. Amplitude 0.375 +/- 0.015 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 41.6 10.9 Search (4096X32) 0.366 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 38.0 19.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 69.0 6.4 Inc. seg. avg. 0.477 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 69.2 11.3 Inc. frq. avg. 0.590 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 88.0 el 63.0 pa -64.4 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -9984.748 -2699.144 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/bN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/bN.W.69.2L2HTN



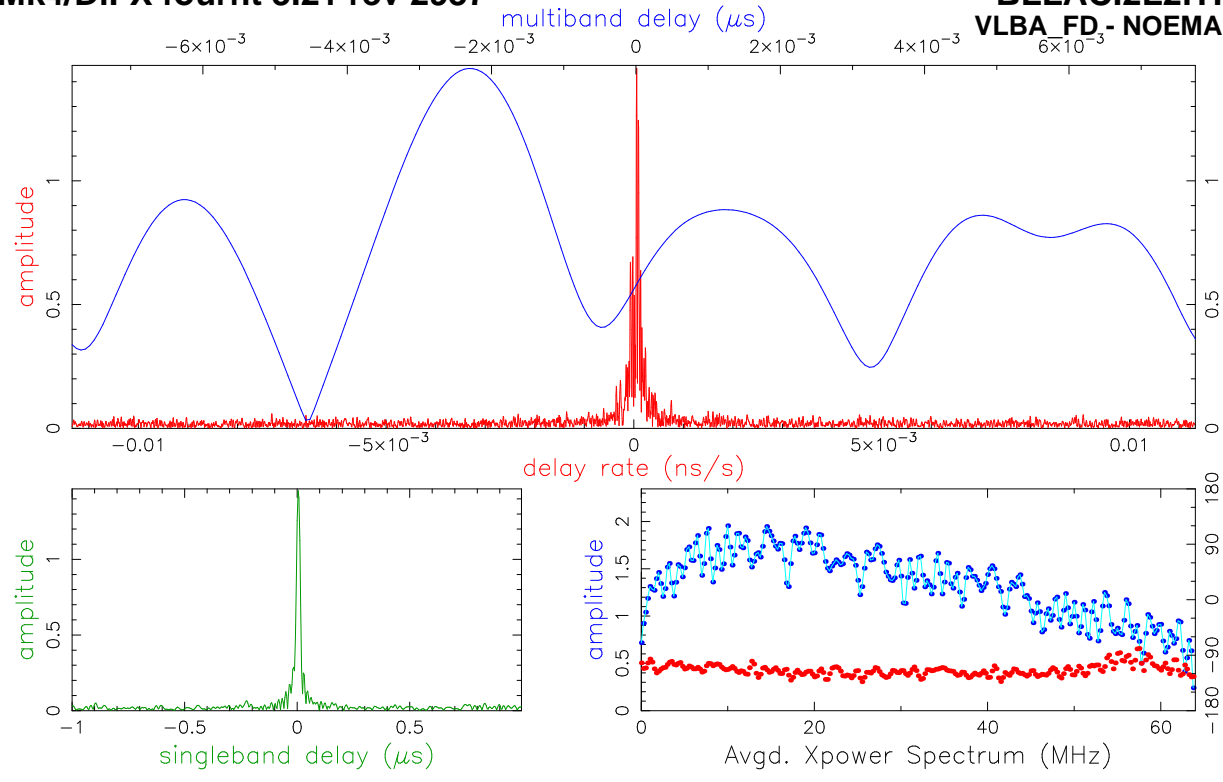
Fringe quality 1
SNR 48.8
Int time 599.978
Amp 0.729
Phase -8.0
PFD 0.0e+00
Delays (us)
SBD 0.004798
MBD -0.006106
Fringe rate (Hz)
-0.000737
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232007
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-17.0	-22.5	89.3	-4.0	-44.9	-28.2	91.9	-44.2	Phase	-8.0
	0.9	1.1	1.0	1.2	1.3	1.2	1.2	1.0	Ampl.	1.1
	256.2	257.9	258.7	258.5	258.7	258.6	258.3	257.1	Sbd box	258.2
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	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	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)	7.90940840655E+02		Apriori delay (usec)		7.90931321286E+02		Resid mbdelay (usec)		-6.10563E-03	+/- 2.2E-05
Sband delay (usec)	7.90936119036E+02		Apriori clock (usec)		-1.5403244E+01		Resid sbdelay (usec)		4.79775E-03	+/- 1.8E-04
Phase delay (usec)	7.90931321028E+02		Apriori clockrate (us/s)		2.2999999E-08		Resid phdelay (usec)		-2.58380E-07	+/- 7.6E-08
Delay rate (us/s)	8.70776048453E-02		Apriori rate (us/s)		8.70776134036E-02		Resid rate (us/s)		-8.55831E-09	+/- 2.2E-10
Total phase (deg)			Apriori accel (us/s/s)		9.74944063258E-07		Resid phase (deg)		-8.0	+/- 2.3

ph/seg (deg) 50.5 5.6 Search (4096X32) 0.692 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 47.5 9.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 61.7 3.3 Inc. seg. avg. 0.993 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 55.1 5.8 Inc. frq. avg. 1.108 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 299.4 el 32.1 pa 48.7 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -671.072 537.206 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/BN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/BN.W.7.2L2HTN

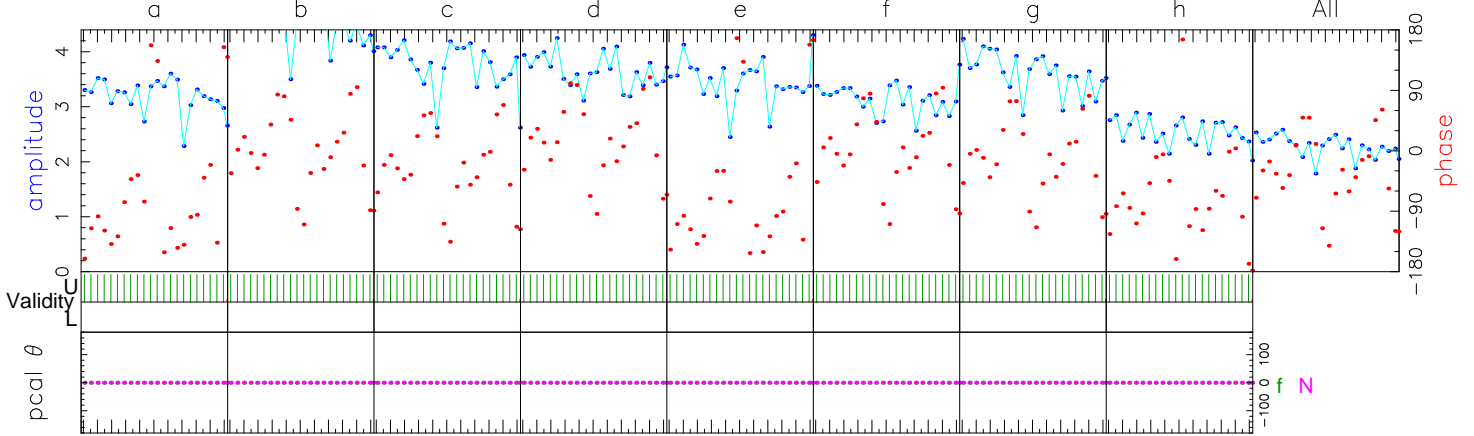


Fringe quality 1

SNR 98.2
Int time 599.469
Amp 1.466
Phase -31.2
PFD 0.0e+00
Delays (us)
SBD 0.005104
MBD -0.002292
Fringe rate (Hz) 0.004689
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232024
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



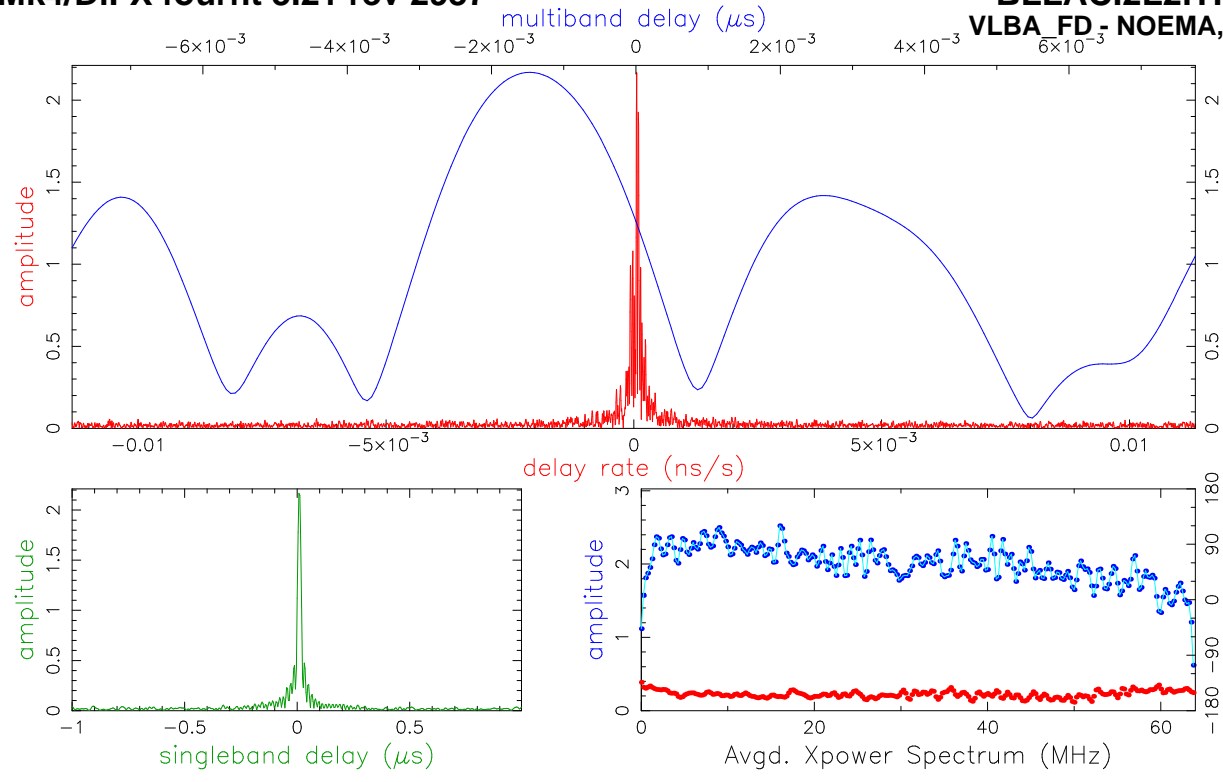
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-116.2	1.8	-23.9	16.0	-113.4	2.3	-11.0	-82.3	Phase	-31.2
	2.0	2.9	2.4	2.3	2.1	2.0	2.3	1.7	Ampl.	2.2
	256.5	258.0	259.0	258.9	258.8	258.9	258.2	256.5	Sbd box	258.3
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	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	

Group delay (usec)(sbd)	9.83395117672E+03	Apriori delay (usec)	9.83395346869E+03	Resid mbdelay (usec)	-2.29197E-03	+/-	1.1E-05
Sband delay (usec)	9.83395857244E+03	Apriori clock (usec)	3.3597466E+01	Resid sbdelay (usec)	5.10375E-03	+/-	8.8E-05
Phase delay (usec)	9.83395346769E+03	Apriori clockrate (us/s)	6.5116159E-08	Resid phdelay (usec)	-1.00542E-06	+/-	3.8E-08
Delay rate (us/s)	1.16200945675E+00	Apriori rate (us/s)	1.16200940232E+00	Resid rate (us/s)	5.44310E-08	+/-	1.1E-10
Total phase (deg)	254.3	Apriori accel (us/s/s)	-6.68022121133E-05	Resid phase (deg)	-31.2	+/-	1.2

ph/seg (deg)	53.9	2.8	Search (4096X32)	1.438	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	57.4	4.9	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	59.9	1.7	Inc. seg. avg.	2.282	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	55.1	2.9	Inc. frq. avg.	2.201	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 50.3 el 68.8 pa -114.7 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -9226.873 -5856.300 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fN.W.21.2L2HTN

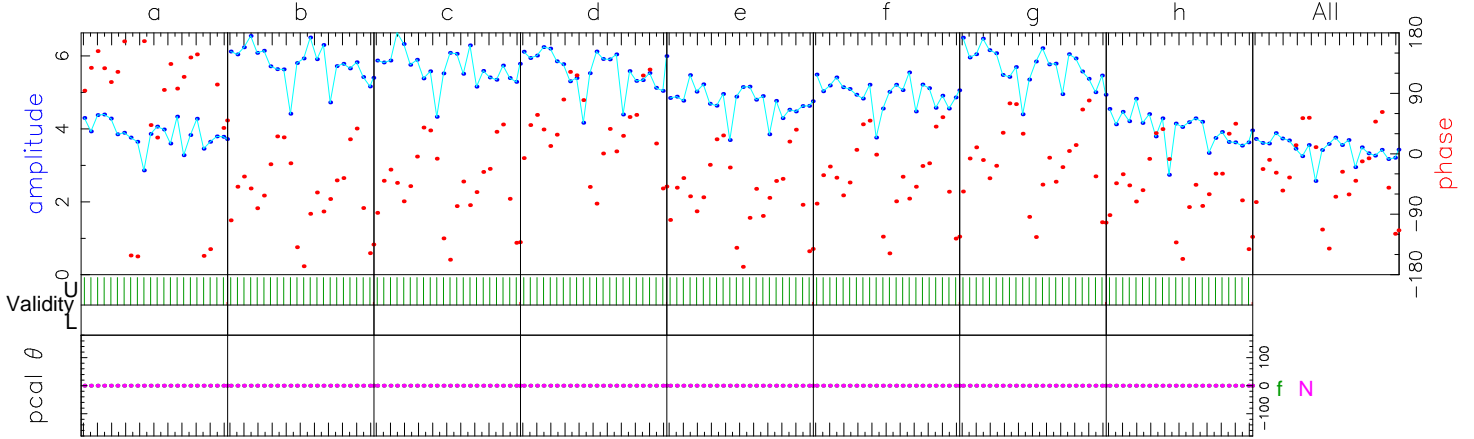


Fringe quality 1

SNR 148.1
Int time 599.469
Amp 2.212
Phase -28.1
PFD 0.0e+00
Delays (us)
SBD 0.009576
MBD -0.001413
Fringe rate (Hz) 0.004731
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

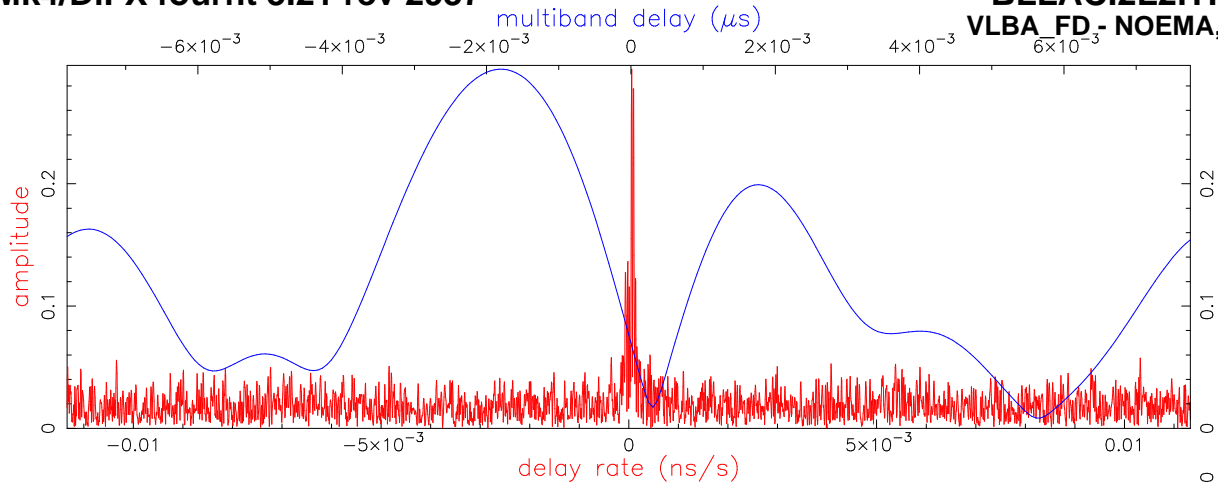
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232031
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



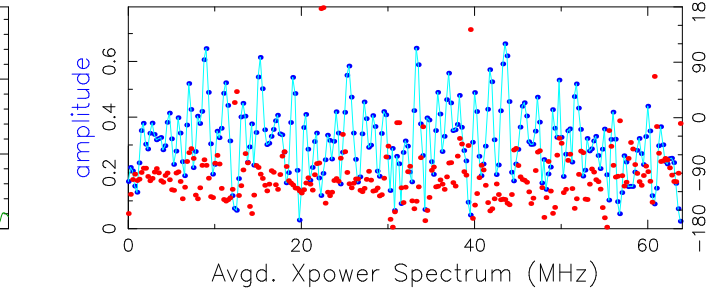
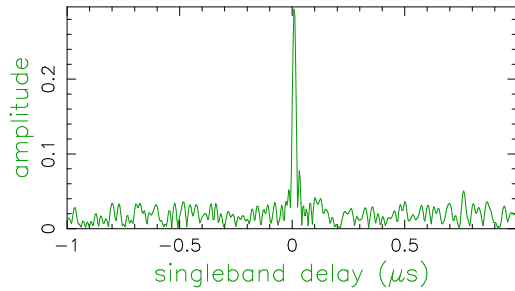
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	128.1	-54.7	-43.8	37.3	-57.6	-35.0	-9.7	-47.6	Phase	-28.1
	2.5	3.6	3.6	3.5	3.0	3.1	3.6	2.5	Ampl.	3.2
	257.1	259.2	259.5	259.6	259.9	259.6	258.8	257.1	Sbd box	259.5
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	9.83396768038E+03		Apriori delay (usec)		9.83395346869E+03		Resid mbdelay (usec)		-1.41331E-03	+/- 7.3E-06
Sband delay (usec)	9.83396304494E+03		Apriori clock (usec)		3.3597466E+01		Resid sbdelay (usec)		9.57625E-03	+/- 5.8E-05
Phase delay (usec)	9.83395346779E+03		Apriori clockrate (us/s)		6.5116159E-08		Resid phdelay (usec)		-9.04990E-07	+/- 2.5E-08
Delay rate (us/s)	1.16200945724E+00		Apriori rate (us/s)		1.16200940232E+00		Resid rate (us/s)		5.49185E-08	+/- 7.2E-11
Total phase (deg)	257.4		Apriori accel (us/s/s)		-6.68022121133E-05		Resid phase (deg)		-28.1	+/- 0.8

ph/seg (deg) 54.6 1.9 Search (4096X32) 2.163 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 57.6 3.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 72.2 1.1 Inc. seg. avg. 3.450 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 47.9 1.9 Inc. frq. avg. 3.175 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 50.3 el 68.8 pa -114.7 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -9226.873 -5856.300 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fN.W.51.2L2HTN



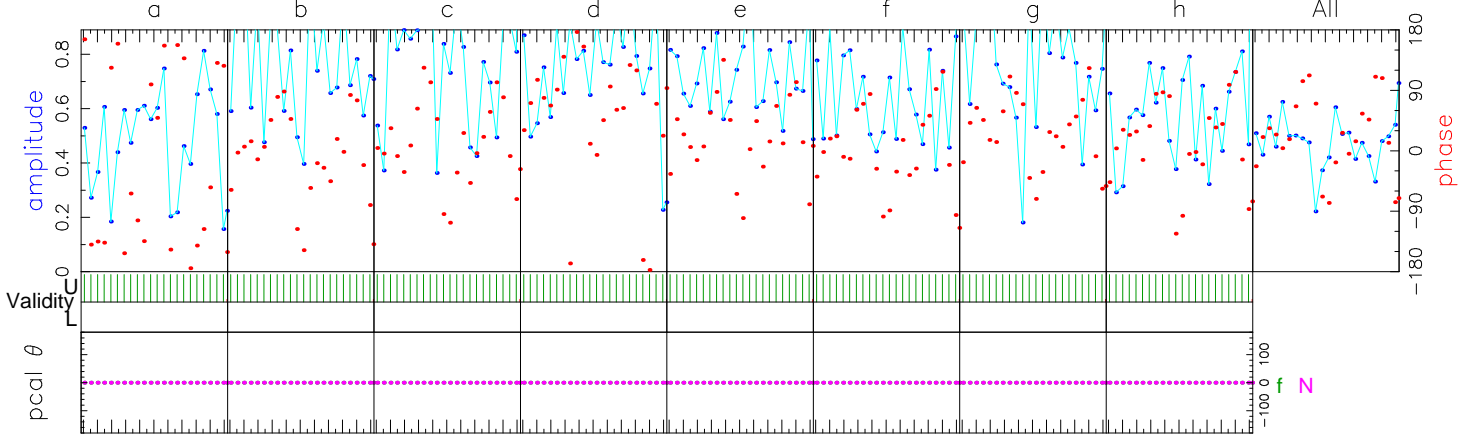
Fringe quality 7

SNR 19.9
Int time 599.469
Amp 0.297
Phase 23.3
PFD 0.0e+00
Delays (us)
SBD 0.009106
MBD -0.001782
Fringe rate (Hz)
0.004733
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232038
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



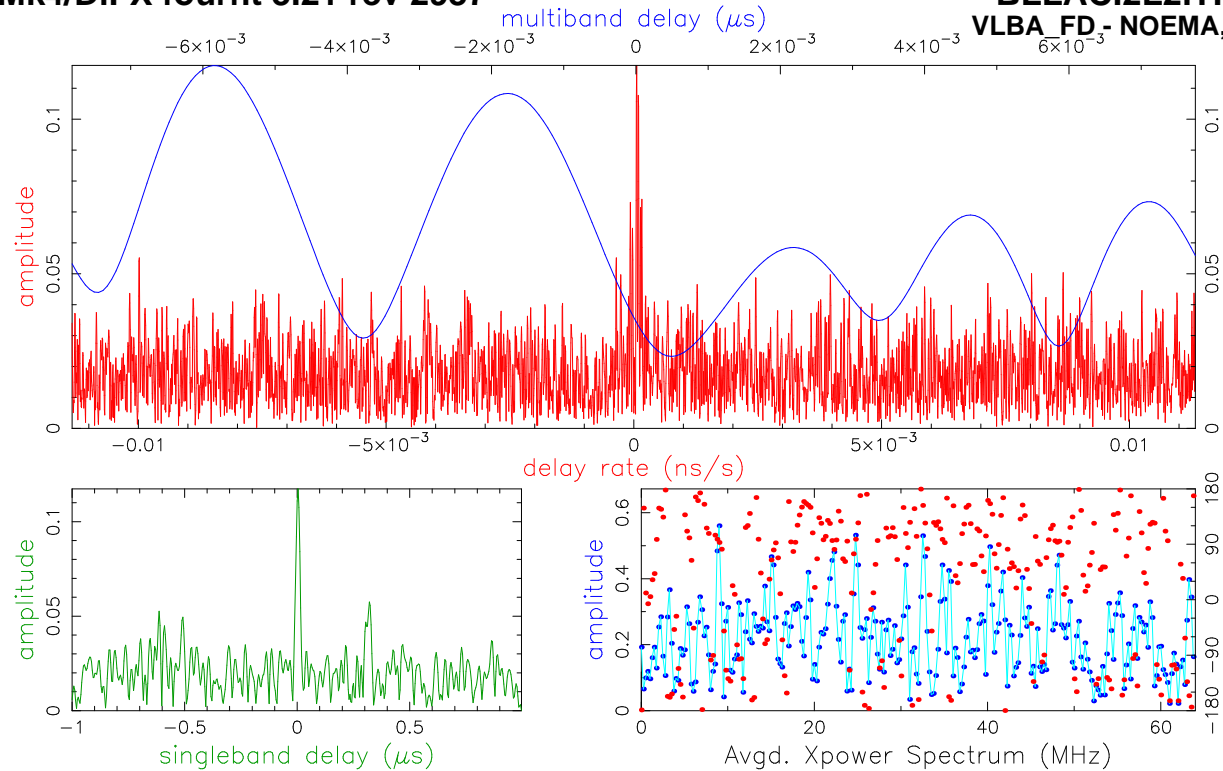
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-162.1	1.5	15.6	94.6	17.9	0.8	22.8	20.4	Phase	23.3
	0.3	0.5	0.4	0.4	0.4	0.4	0.5	0.3	Ampl.	0.4
	257.0	258.6	259.4	259.7	259.7	259.5	259.0	257.1	Sbd box	259.3
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	9.83396731135E+03	Apriori delay (usec)	9.83395346869E+03	Resid mbdelay (usec)	-1.78234E-03	+/-	5.5E-05
Sband delay (usec)	9.83396257444E+03	Apriori clock (usec)	3.3597466E+01	Resid sbdelay (usec)	9.10575E-03	+/-	4.3E-04
Phase delay (usec)	9.83395346944E+03	Apriori clockrate (us/s)	6.5116159E-08	Resid phdelay (usec)	7.50463E-07	+/-	1.9E-07
Delay rate (us/s)	1.16200945727E+00	Apriori rate (us/s)	1.16200940232E+00	Resid rate (us/s)	5.49479E-08	+/-	5.4E-10
Total phase (deg)	308.8	Apriori accel (us/s/s)	-6.68022121133E-05	Resid phase (deg)	23.3	+/-	5.8

ph/seg (deg)	RMS 56.0	Theor. 13.8	Amplitude Search (4096X32)	0.297 +/- 0.015	0.292	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	66.1	24.1	Interp.	0.000	0.292	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
ph/frq (deg)	78.2	8.2	Inc. seg. avg.	0.459	0.292	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
amp/frq (%)	45.5	14.2	Inc. frq. avg.	0.398	0.292	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011		
					0.292	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

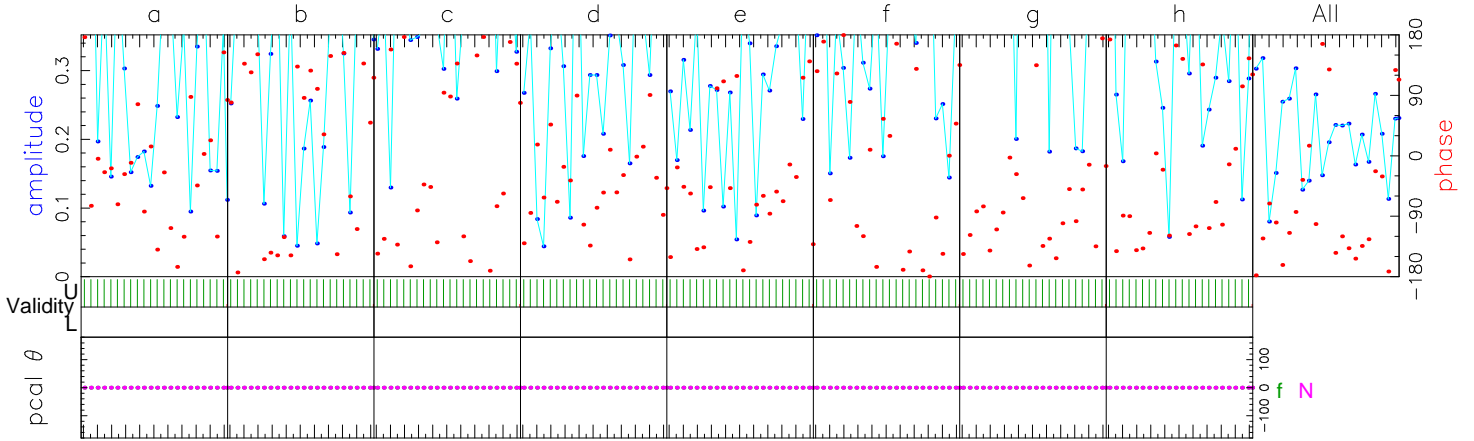
f: az 50.3 el 68.8 pa -114.7 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -9226.873 -5856.300 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fN.W.79.2L2HTN



Fringe quality 9
 SNR 7.9
 Int time 599.469
 Amp 0.117
 Phase -126.6
 PFD 2.6e-06
 Delays (us)
 SBD 0.003542
 MBD -0.005848
 Fringe rate (Hz) 0.004707
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c222c
 Exper # 16383
 Yr:day 2022:282
 Start 022150.00
 Stop 023150.06
 FRT 022650.00
 Corr/FF/build
 2023:040:212407
 2023:040:232045
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

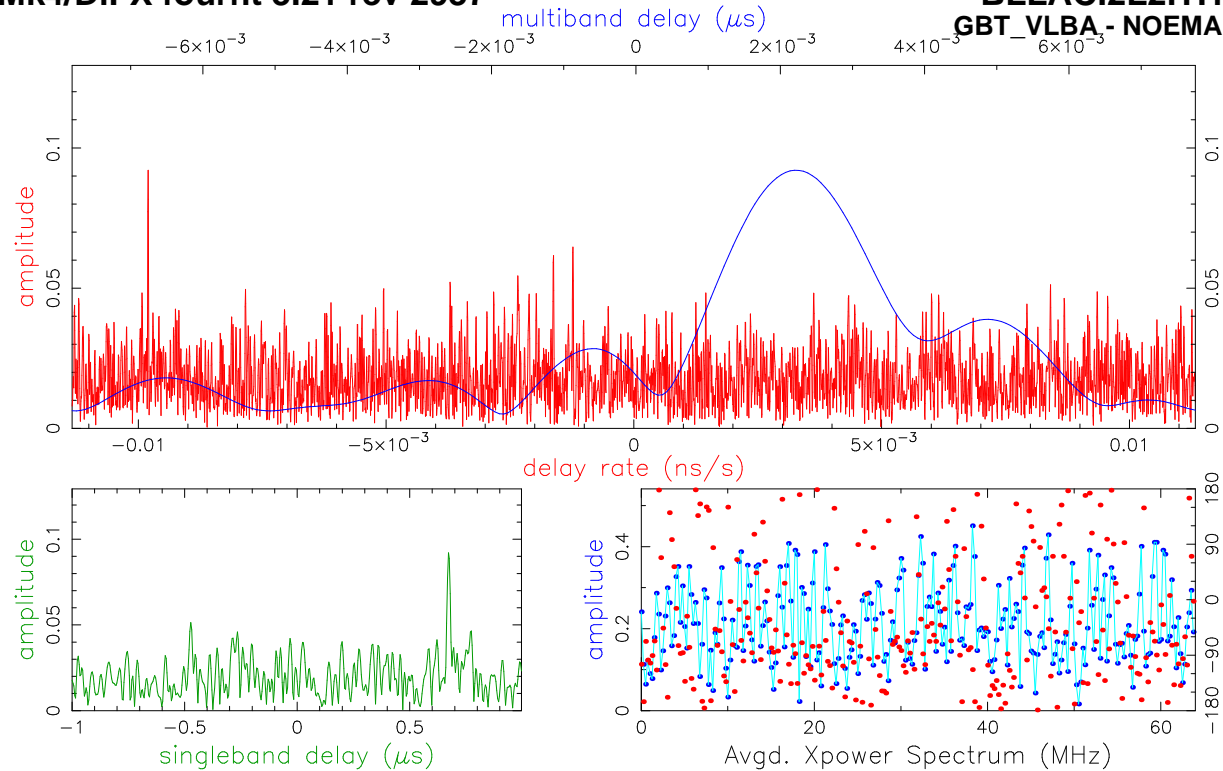


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-61.8	155.7	-156.6	-36.0	-78.8	176.7	-112.8	-129.4	Phase	-126.6
	0.1	0.2	0.2	0.2	0.1	0.2	0.3	0.2	Ampl.	0.2
	109.4	257.9	259.4	258.8	259.8	259.0	258.2	256.4	Sbd box	257.9
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	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	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	9.83396324541E+03	Apriori delay (usec)	9.83395346869E+03	Resid mbdelay (usec)	-5.84828E-03	+/-	1.4E-04
Sband delay (usec)	9.83395701019E+03	Apriori clock (usec)	3.3597466E+01	Resid sbdelay (usec)	3.54150E-03	+/-	1.1E-03
Phase delay (usec)	9.83395346461E+03	Apriori clockrate (us/s)	6.5116159E-08	Resid phdelay (usec)	-4.08409E-06	+/-	4.7E-07
Delay rate (us/s)	1.16200945697E+00	Apriori rate (us/s)	1.16200940232E+00	Resid rate (us/s)	5.46489E-08	+/-	1.4E-09
Total phase (deg)	158.8	Apriori accel (us/s/s)	-6.68022121133E-05	Resid phase (deg)	-126.6	+/-	14.6

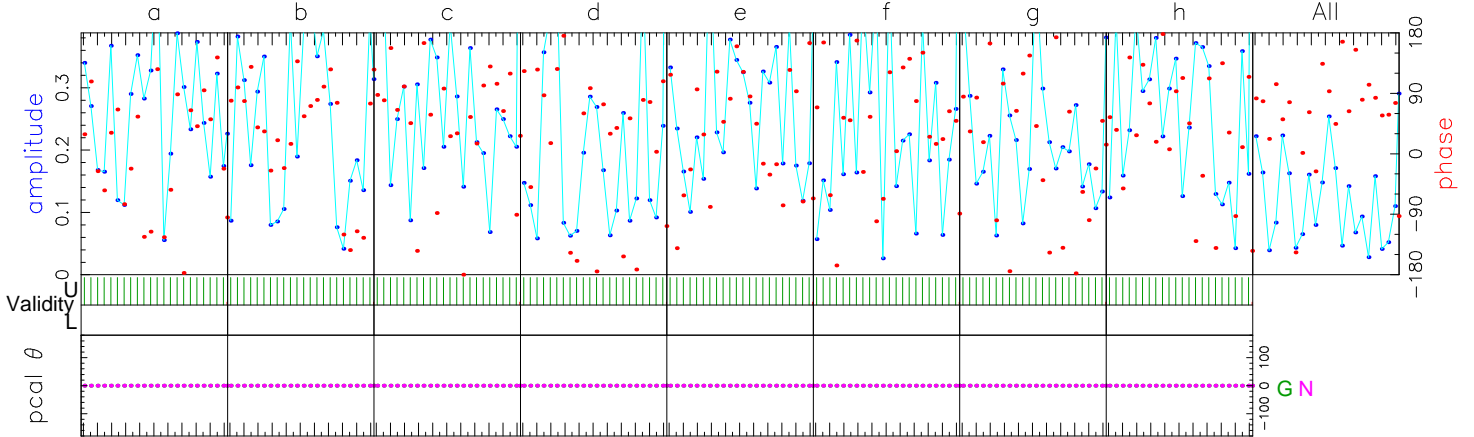
ph/seg (deg)	63.8	Theor.	35.0	Search (4096X32)	0.117	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	94.1		61.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	64.6		20.6	Inc. seg. avg.	0.175	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	74.3		36.0	Inc. frq. avg.	0.171	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 50.3 el 68.8 pa -114.7 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -9226.873 -5856.300 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/fN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/fN.W.98.2L2HTN



Fringe quality 0
SNR 6.2
Int time 599.859
Amp 0.129
Phase 75.8
PFD 2.2e-01
Delays (us)
SBD 0.673145
MBD 0.002227
Fringe rate (Hz)
-0.845505
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232103
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

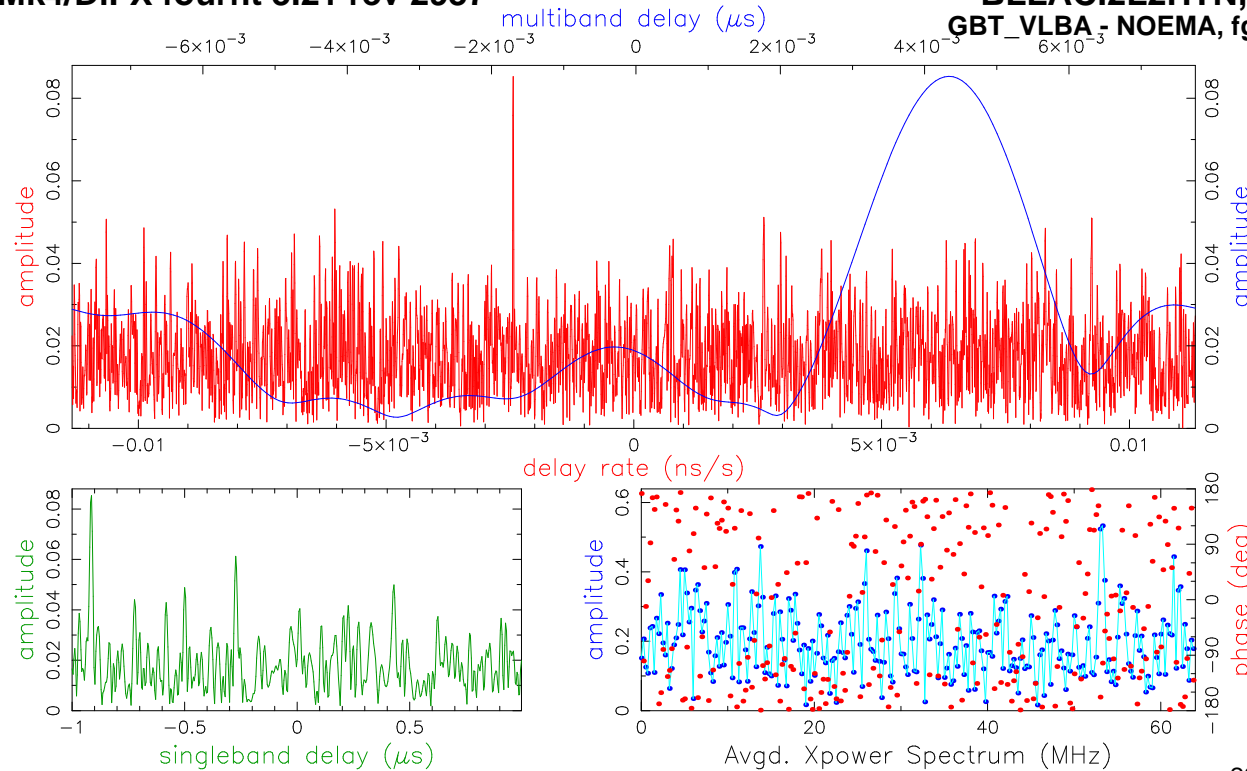
Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	61.4	73.8	77.6	98.3	71.6	77.4	90.3	57.4	Phase	75.8
	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	405.5	254.6	510.3	455.8	449.8	481.5	204.9	408.8	Sbd box	429.3
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
G:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

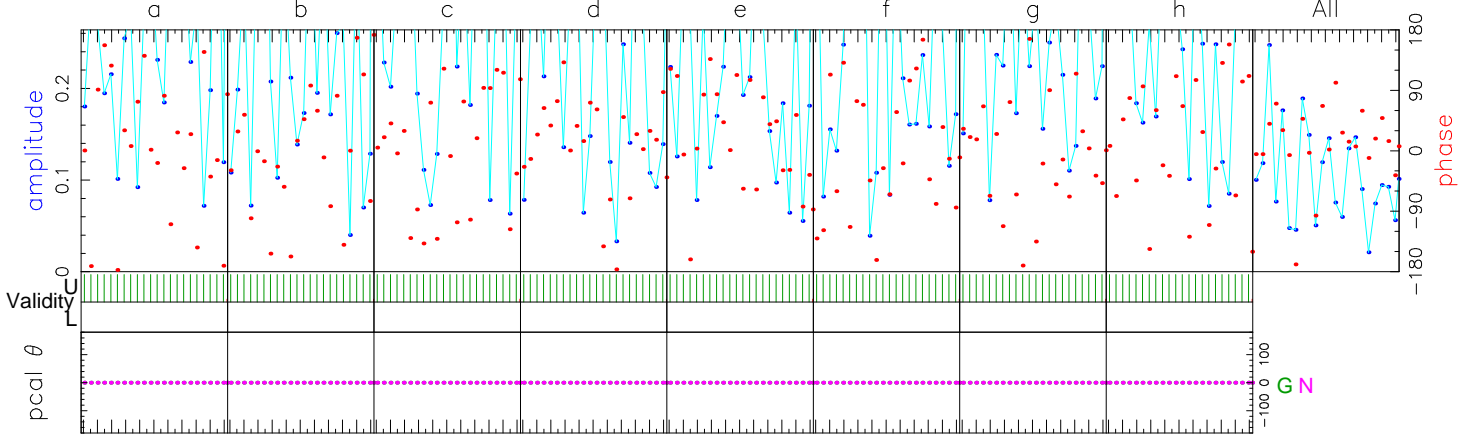
Group delay (usec)(sbd)	1.10185302858E+04	Apriori delay (usec)	1.10178561840E+04	Resid mbdelay (usec)	2.22678E-03	+/-	1.7E-04
Sband delay (usec)	1.10185293288E+04	Apriori clock (usec)	-2.8771825E+00	Resid sbdelay (usec)	6.73145E-01	+/-	1.4E-03
Phase delay (usec)	1.10178561865E+04	Apriori clockrate (us/s)	1.2000000E-07	Resid phdelay (usec)	2.44291E-06	+/-	5.9E-07
Delay rate (us/s)	7.59846267831E-01	Apriori rate (us/s)	7.59856083311E-01	Resid rate (us/s)	-9.81548E-06	+/-	1.7E-09
Total phase (deg)	325.2	Apriori accel (us/s/s)	-6.47802754213E-05	Resid phase (deg)	75.8	+/-	18.4

ph/seg (deg)	RMS 53.5	Theor. 44.1	Amplitude Search (4096X32)	0.129 +/- 0.021	0.090	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	76.5	77.0	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	14.7	26.0	Inc. seg. avg.	0.126	128	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	38.4	45.4	Inc. frq. avg.	0.119	2048	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011	
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite
								ion window (TEC) 0.00 0.00



Fringe quality 0
SNR 5.8
Int time 599.859
Amp 0.088
Phase 24.9
PFD 9.8e-01
Delays (us)
SBD -0.915397
MBD 0.004303
Fringe rate (Hz)
-0.209884
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232113
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

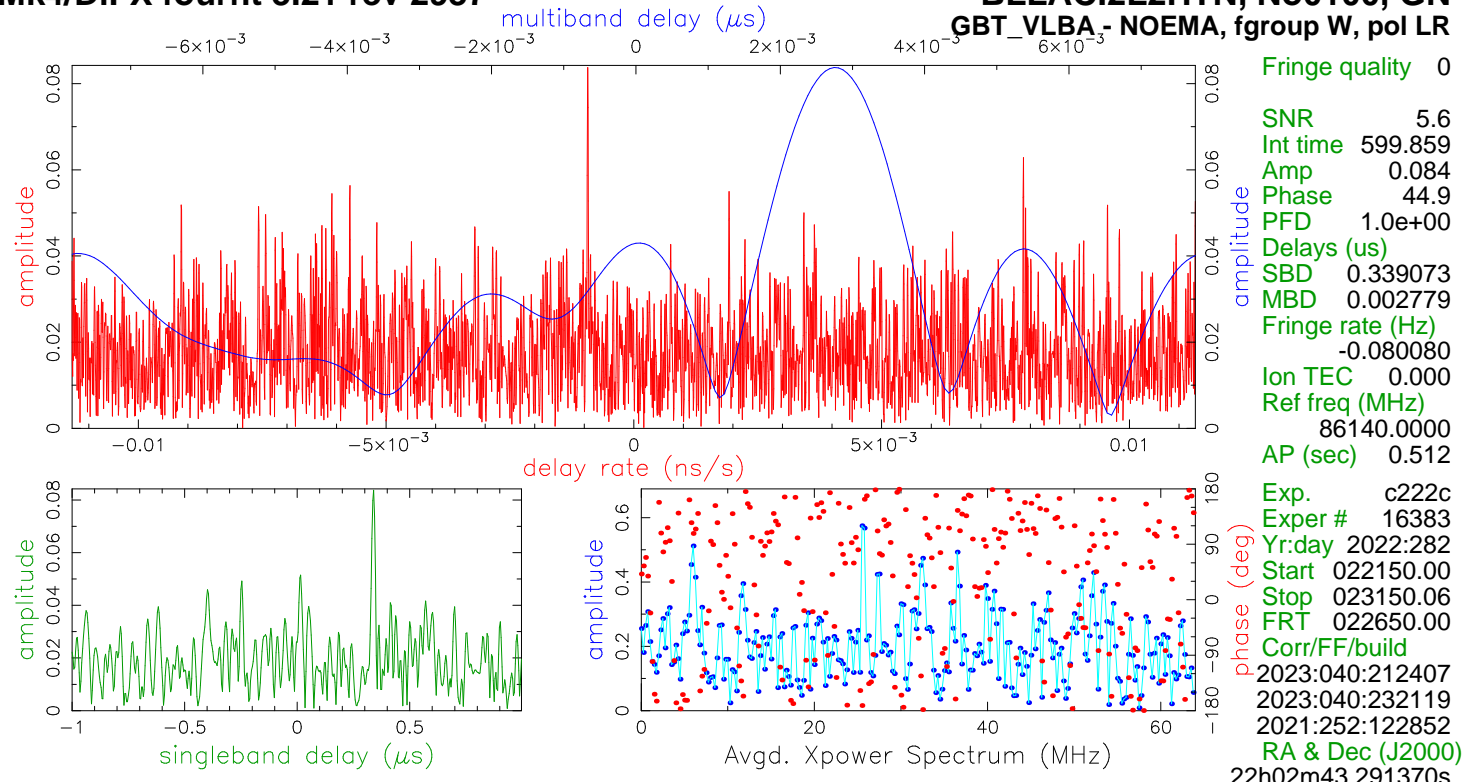


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	16.5	7.7	32.0	31.3	40.5	-7.5	9.8	39.4	Phase	24.9
	0.1	0.1	0.1	0.2	0.1	0.0	0.1	0.1	Ampl.	0.1
	445.3	153.1	21.1	71.3	160.3	386.9	159.9	186.3	Sbd box	22.7
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
G:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

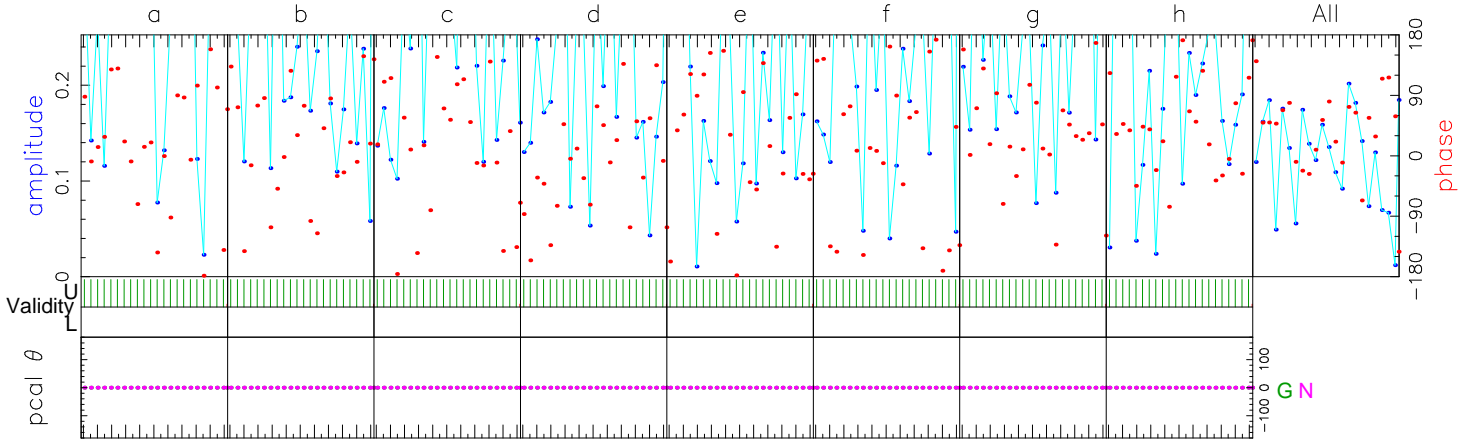
Group delay (usec)(sbd)	1.10169386125E+04	Apriori delay (usec)	1.10178561840E+04	Resid mbdelay (usec)	4.30342E-03	+/-	1.9E-04
Sband delay (usec)	1.10169407868E+04	Apriori clock (usec)	-2.8771825E+00	Resid sbdelay (usec)	-9.15397E-01	+/-	1.5E-03
Phase delay (usec)	1.10178561848E+04	Apriori clockrate (us/s)	1.2000000E-07	Resid phdelay (usec)	8.02499E-07	+/-	6.4E-07
Delay rate (us/s)	7.59853646771E-01	Apriori rate (us/s)	7.59856083311E-01	Resid rate (us/s)	-2.43654E-06	+/-	1.8E-09
Total phase (deg)	274.4	Apriori accel (us/s/s)	-6.47802754213E-05	Resid phase (deg)	24.9	+/-	19.8

ph/seg (deg)	53.9	RMS	47.5	Theor.	0.088 +/- 0.015	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	65.7	Search (4096X32)	0.083	Amplitude	0.088 +/- 0.015	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	19.1	Interp.	0.000	Search	0.083	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	38.7	Inc. seg. avg.	0.080	Inc. seg. avg.	0.080	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
		Inc. frq. avg.	0.080	Inc. frq. avg.	0.080	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

G: az 340.2 el 85.8 pa 161.3 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -6102.244 -5046.424 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/GN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/GN.W.125.2L2HTN



Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

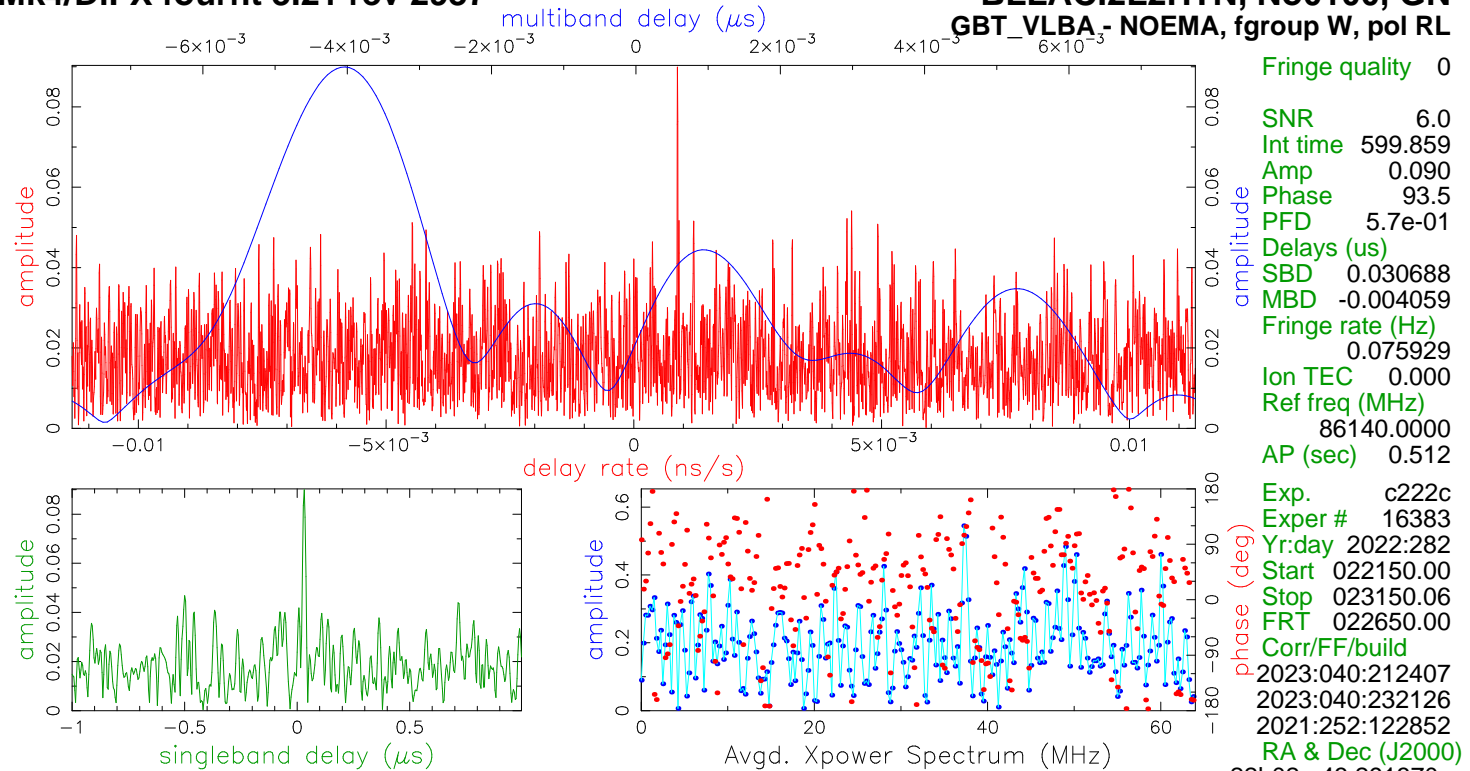


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	42.5	44.4	87.6	-6.4	53.9	114.5	39.0	44.1	Phase	44.9
	0.1	0.1	0.1	0.1	0.1	0.0	0.2	0.1	Ampl.	0.1
	403.4	192.2	328.5	71.2	109.2	251.5	344.2	295.3	Sbd box	343.8
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
G:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		1.10182027127E+04		Apriori delay (usec)		1.10178561840E+04		Resid mbdelay (usec)	2.77868E-03	+/- 1.9E-04
Sband delay (usec)		1.10181952568E+04		Apriori clock (usec)		-2.8771825E+00		Resid sbdelay (usec)	3.39073E-01	+/- 1.5E-03
Phase delay (usec)		1.10178561855E+04		Apriori clockrate (us/s)		1.2000000E-07		Resid phdelay (usec)	1.44745E-06	+/- 6.6E-07
Delay rate (us/s)		7.59855153658E-01		Apriori rate (us/s)		7.59856083311E-01		Resid rate (us/s)	-9.29653E-07	+/- 1.9E-09
Total phase (deg)			294.4	Apriori accel (us/s/s)		-6.47802754213E-05		Resid phase (deg)	44.9	+/- 20.4

	RMS	Theor.	Amplitude	0.084 +/- 0.015	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	50.8	48.8	Search (4096X32)	0.083	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
amp/seg (%)	74.9	85.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
ph/frq (deg)	39.6	28.8	Inc. seg. avg.	0.090	Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011	
amp/frq (%)	49.5	50.3	Inc. frq. avg.	0.083	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2L2HTN, No0100, GN
GBT_VLBA - NOEMA, fgroup W, pol RL



Fringe quality 0

SNR 6.0

Int time 599.859

Ampl 0.090

Phase 93.5

PFD 5.7e-01

Delays (us)

SBD 0.030688

MBD -0.004059

Fringe rate (Hz)

0.075929

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c222c

Exper # 16383

Yr:day 2022:282

Start 022150.00

Stop 023150.06

FRT 022650.00

Corr/FF/build

2023:040:212407

2023:040:232126

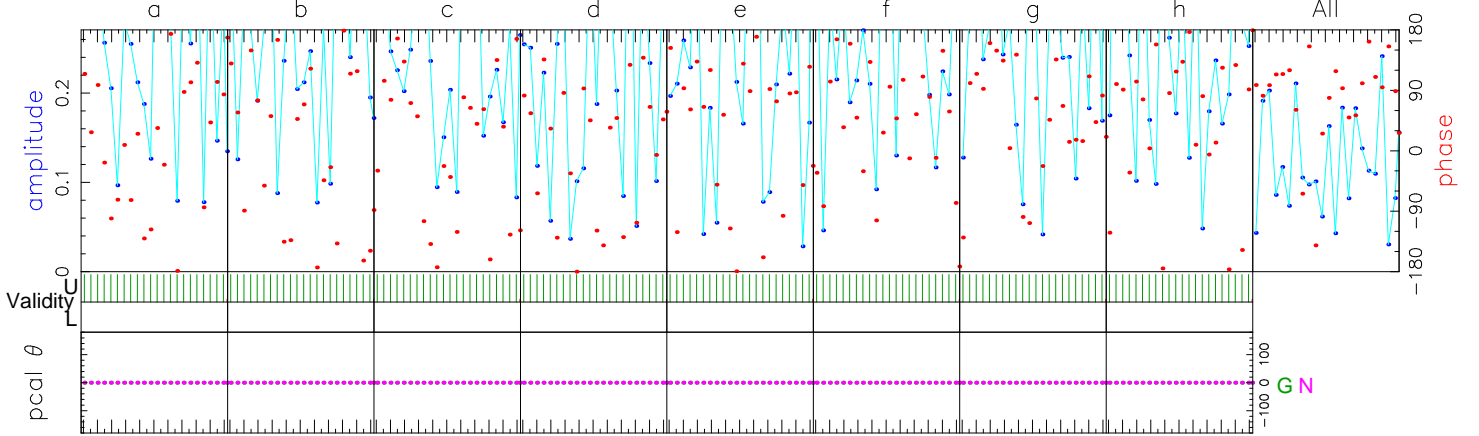
2021:252:122852

RA & Dec (J2000)

22h02m43.291370s

+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



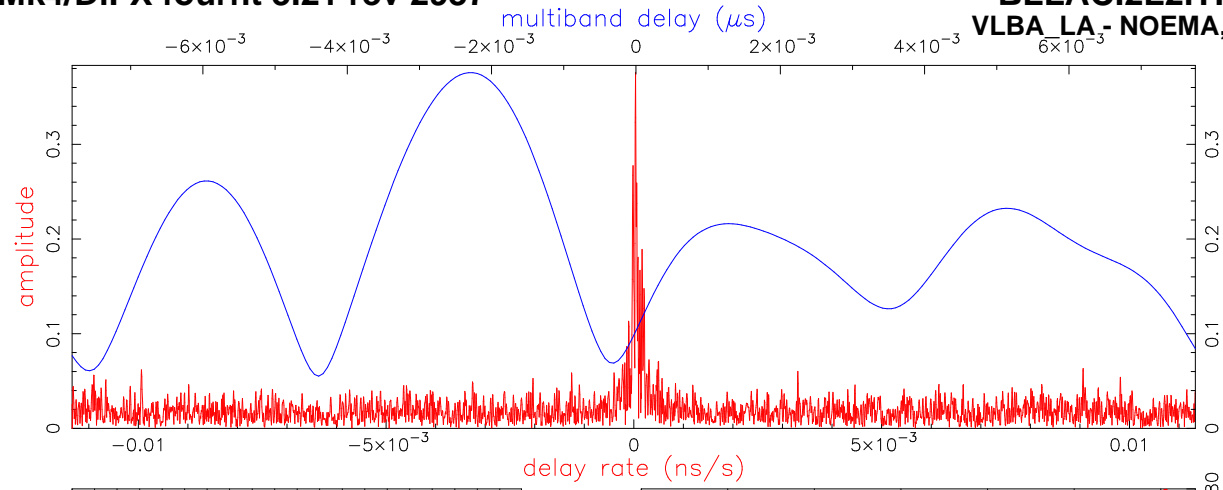
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	60.2	162.7	77.8	91.5	120.2	61.6	87.4	104.9	Phase	93.5
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	32.9	338.5	273.7	463.1	233.2	414.6	501.2	263.8	Sbd box	264.9
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
G:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.10178833747E+04	Apriori delay (usec)	1.10178561840E+04	Resid mbdelay (usec)	-4.05933E-03	+/-	1.8E-04
Sband delay (usec)	1.10178868723E+04	Apriori clock (usec)	-2.8771825E+00	Resid sbdelay (usec)	3.06883E-02	+/-	1.4E-03
Phase delay (usec)	1.10178561871E+04	Apriori clockrate (us/s)	1.2000000E-07	Resid phdelay (usec)	3.01591E-06	+/-	6.1E-07
Delay rate (us/s)	7.59856964768E-01	Apriori rate (us/s)	7.59856083311E-01	Resid rate (us/s)	8.81457E-07	+/-	1.8E-09
Total phase (deg)	343.0	Apriori accel (us/s/s)	-6.47802754213E-05	Resid phase (deg)	93.5	+/-	19.0

ph/seg (deg)	54.4	RMS	45.5	Theor.	54.4	Amplitude	0.090 +/- 0.015	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	73.6	Search (4096X32)	0.088	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	0.000	sb window (us)	-1.000	1.000
ph/frq (deg)	36.6	Inc. seg. avg.	0.092	Inc. frq. avg.	0.093	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	26.8	Inc. frq. avg.	0.093	Data rate (Mb/s): 2048	nlags: 256	Sample rate (MSamp/s): 128	ion window (TEC)	0.00	0.00	

G: az 340.2 el 85.8 pa 161.3 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -6102.244 -5046.424 simultaneous interpolator

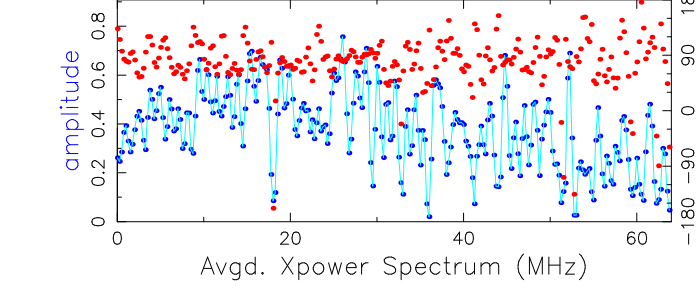
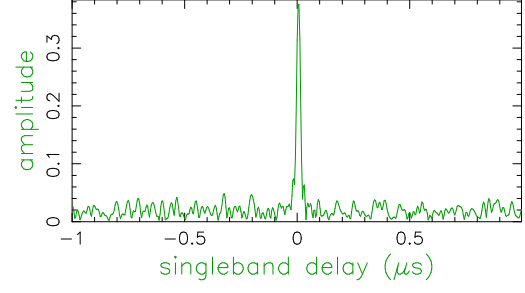
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/GN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/GN.W.177.2L2HTN



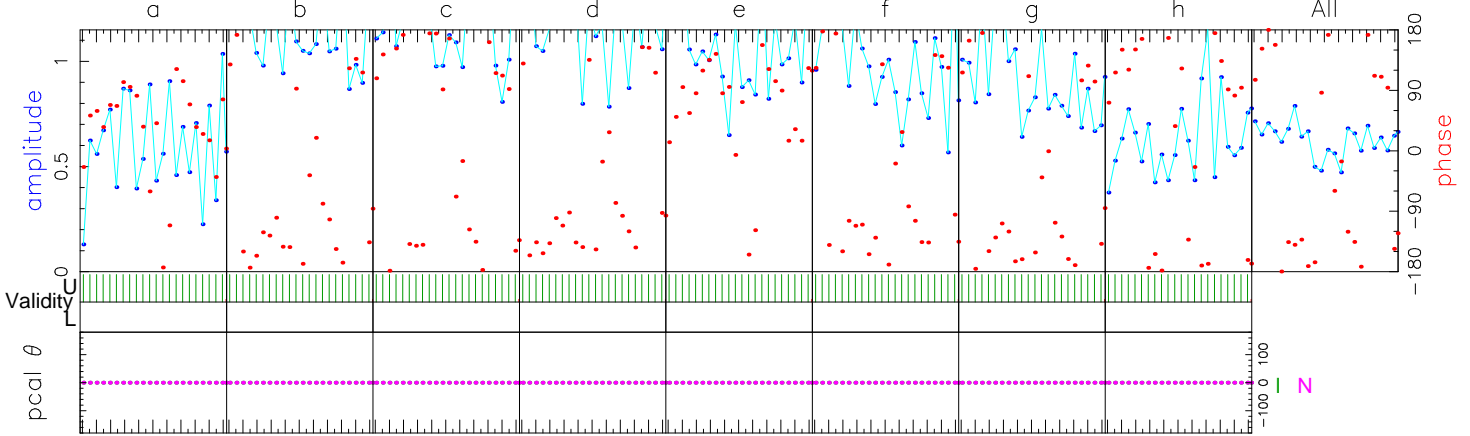
Fringe quality 5

SNR 25.7
Int time 599.599
Amp 0.383
Phase -178.5
PFD 0.0e+00
Delays (us)
SBD 0.005923
MBD -0.002282
Fringe rate (Hz) 0.002760
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232048
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"



Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



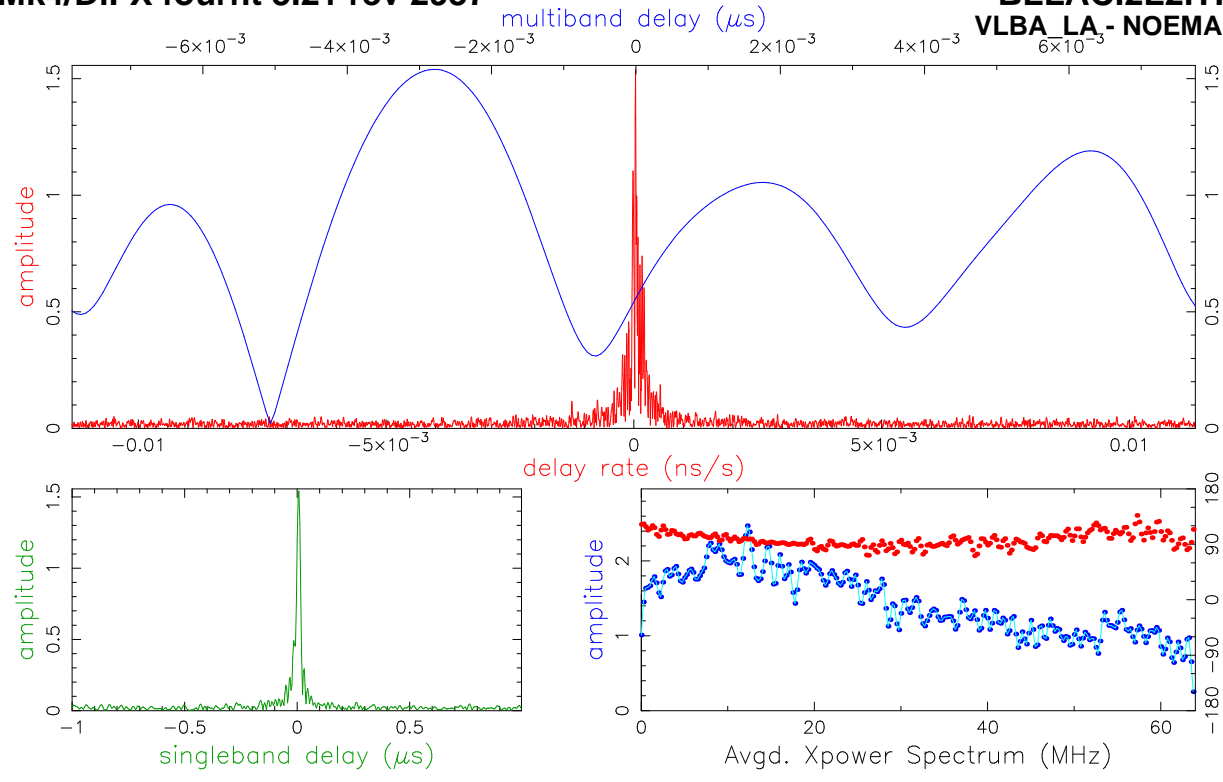
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	59.6	-154.0	-178.6	-141.1	87.4	-148.4	-160.9	152.4	Phase	-178.5
	0.3	0.6	0.8	0.7	0.6	0.5	0.4	0.4	Ampl.	0.6
	256.3	258.2	259.1	259.0	258.8	259.1	258.3	257.1	Sbd box	258.5
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
I	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	9.97540172125E+03	Apriori delay (usec)	9.97538837785E+03	Resid mbdelay (usec)	-2.28161E-03	+/-	4.2E-05
Sband delay (usec)	9.97539430110E+03	Apriori clock (usec)	1.0669809E+01	Resid sbdelay (usec)	5.92325E-03	+/-	3.4E-04
Phase delay (usec)	9.97538837210E+03	Apriori clockrate (us/s)	-1.3148000E-07	Resid phdelay (usec)	-5.75662E-06	+/-	1.4E-07
Delay rate (us/s)	1.17717965038E+00	Apriori rate (us/s)	1.17717961833E+00	Resid rate (us/s)	3.20445E-08	+/-	4.2E-10
Total phase (deg)	134.0	Apriori accel (us/s/s)	-6.19702925524E-05	Resid phase (deg)	-178.5	+/-	4.5

ph/seg (deg)	62.7	Theor.	10.7	Amplitude	0.383 +/- 0.015	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	66.6	Search (4096X32)	0.371	Search	0.371	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	68.0	Interp.	0.000	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	59.1	Inc. seg. avg.	0.616	Inc. seg. avg.	0.616	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
		Inc. frq. avg.	0.565	Inc. frq. avg.	0.565	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

I: az 63.3 el 70.0 pa -100.7 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -9327.933 -5016.599 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/IN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/IN.W.104.2L2HTN

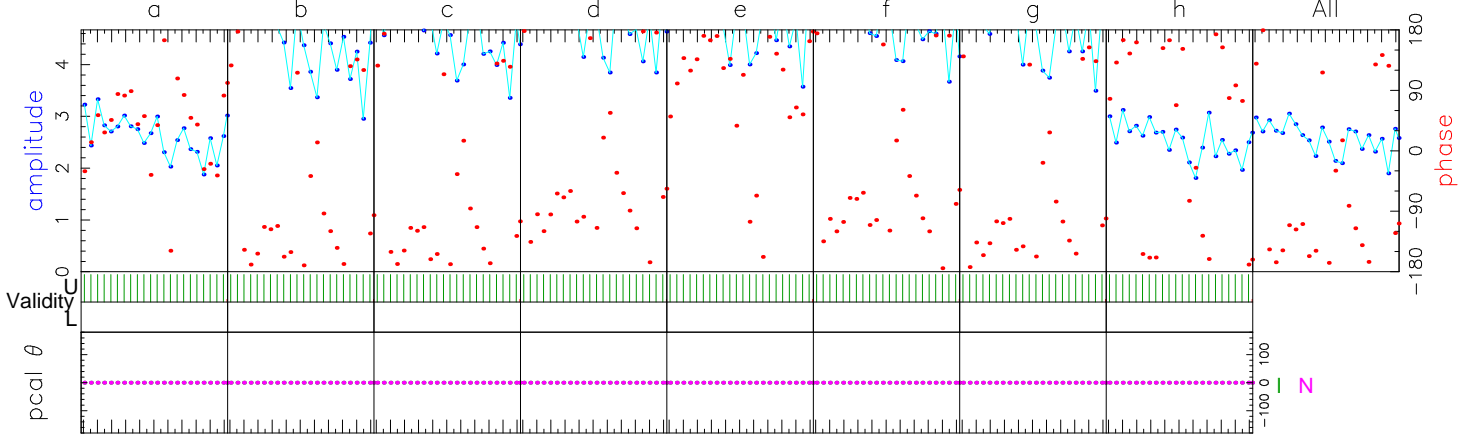


Fringe quality 1

SNR 104.3
Int time 599.599
Amp 1.557
Phase -153.9
PFD 0.0e+00
Delays (us)
SBD 0.006482
MBD -0.002792
Fringe rate (Hz) 0.002771
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232027
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	44.8	-156.5	-156.3	-103.2	130.0	-109.2	-145.6	158.8	Phase	-153.9
	1.6	2.6	2.7	2.9	2.9	2.9	2.8	1.5	Ampl.	2.5
	256.6	258.3	259.0	258.9	258.7	258.7	258.0	256.2	Sbd box	258.7
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
I	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

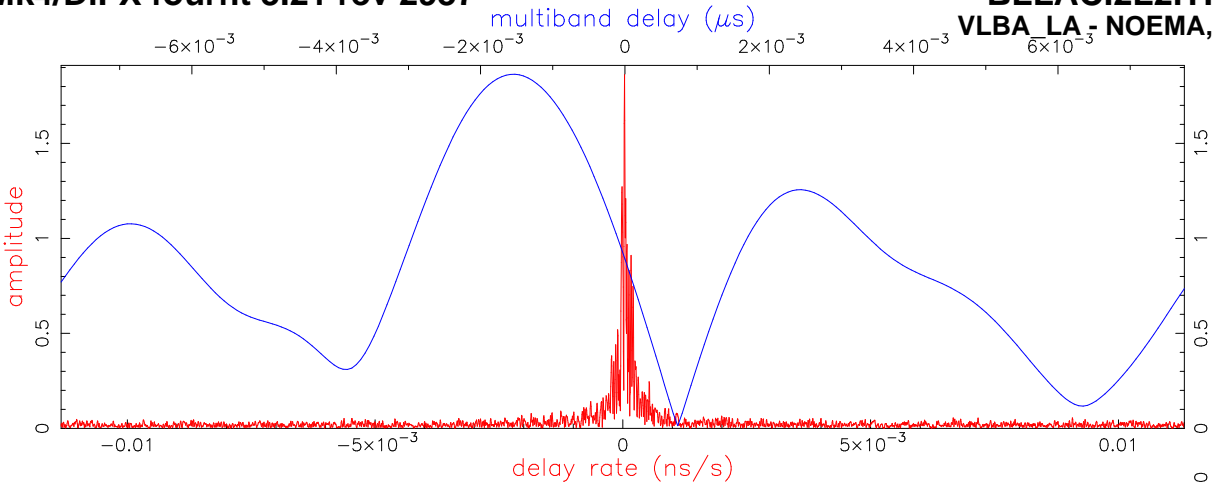
Group delay (usec)(sbd) 9.97540121096E+03 Apriori delay (usec) 9.97538837785E+03 Resid mbdelay (usec) -2.79189E-03 +/- 1.0E-05
 Sband delay (usec) 9.97539485960E+03 Apriori clock (usec) 1.0669809E+01 Resid sbdelay (usec) 6.48175E-03 +/- 8.3E-05
 Phase delay (usec) 9.97538837289E+03 Apriori clockrate (us/s) -1.3148000E-07 Resid phdelay (usec) -4.96224E-06 +/- 3.5E-08
 Delay rate (us/s) 1.17717965050E+00 Apriori rate (us/s) 1.17717961833E+00 Resid rate (us/s) 3.21731E-08 +/- 1.0E-10
 Total phase (deg) 158.7 Apriori accel (us/s/s) -6.19702925524E-05 Resid phase (deg) -153.9 +/- 1.1

RMS Theor. Amplitude 1.557 +/- 0.015 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 63.5 2.6 Search (4096X32) 1.526 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 68.6 4.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 80.3 1.6 Inc. seg. avg. 2.583 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 71.5 2.7 Inc. frq. avg. 2.519 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

I: az 63.3 el 70.0 pa -100.7 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -9327.933 -5016.599 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/IN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/IN.W.33.2L2HTN

Mk4/DiFX fourfit 3.21 rev 2937

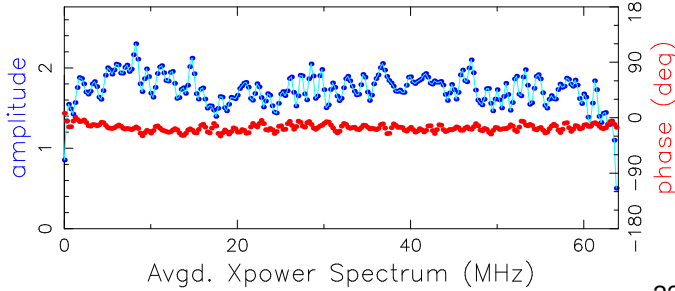
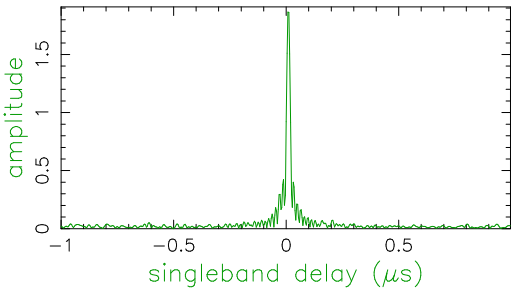
BLLAC.2L2HTN, No0100, IN
VLBA_LA - NOEMA, fgroup W, pol RR



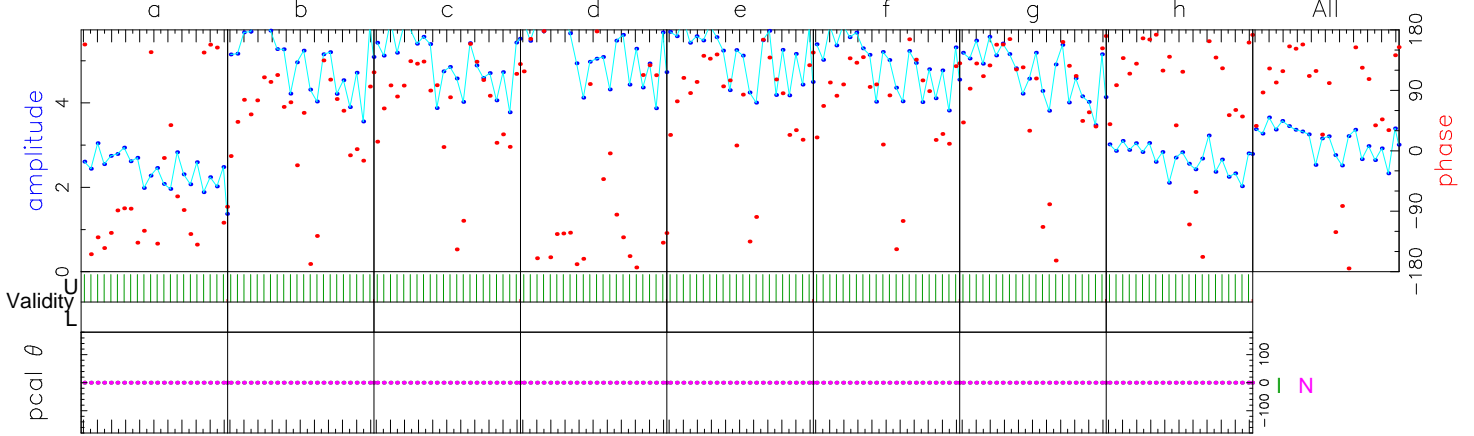
Fringe quality 1

SNR 127.9
Int time 599.599
Amp 1.911
Phase 114.8
PFD 0.0e+00
Delays (us)
SBD 0.009728
MBD -0.001617
Fringe rate (Hz) 0.002812
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232034
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

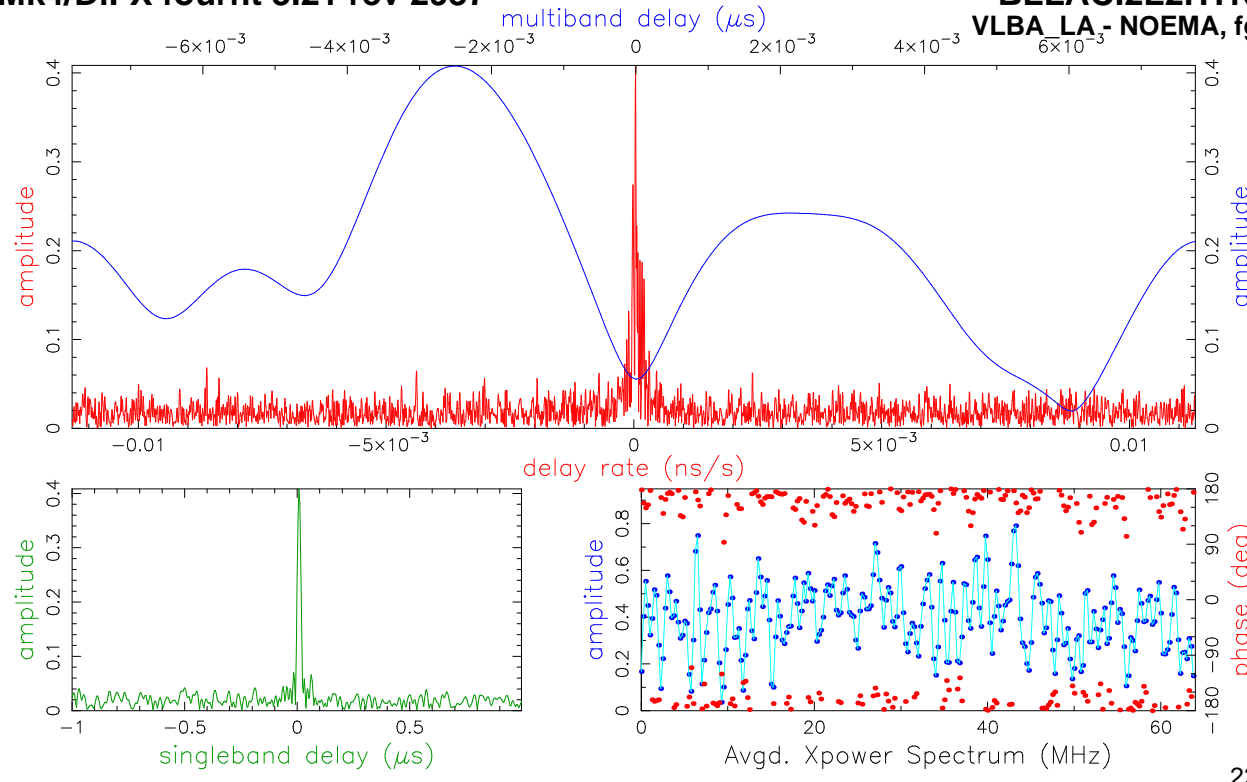


Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-128.9	69.5	92.8	-164.2	98.4	96.0	122.9	128.6	Phase	114.8
	1.5	3.1	3.0	3.1	3.1	3.0	2.8	1.6	Ampl.	2.6
	257.1	259.4	259.7	259.5	259.6	259.6	259.0	257.2	Sbd box	259.5
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
I	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	9.97540238568E+03		Apriori delay (usec)		9.97538837785E+03		Resid mbdelay (usec)		-1.61717E-03	+/- 8.5E-06
Sband delay (usec)	9.97539810610E+03		Apriori clock (usec)		1.0669809E+01		Resid sbdelay (usec)		9.72825E-03	+/- 6.7E-05
Phase delay (usec)	9.97538838155E+03		Apriori clockrate (us/s)		-1.3148000E-07		Resid phdelay (usec)		3.70204E-06	+/- 2.9E-08
Delay rate (us/s)	1.17717965098E+00		Apriori rate (us/s)		1.17717961833E+00		Resid rate (us/s)		3.26443E-08	+/- 8.3E-11
Total phase (deg)	67.4		Apriori accel (us/s/s)		-6.19702925524E-05		Resid phase (deg)		114.8	+/- 0.9

ph/seg (deg) 62.9 2.1 Amplitude 1.911 +/- 0.015 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 65.4 3.7 Search (4096X32) 1.856 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 62.6 1.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 51.0 2.2 Inc. seg. avg. 3.104 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 I: az 63.3 el 70.0 pa -100.7 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -9327.933 -5016.599 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/IN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/IN.W.59.2L2HTN simultaneous interpolator

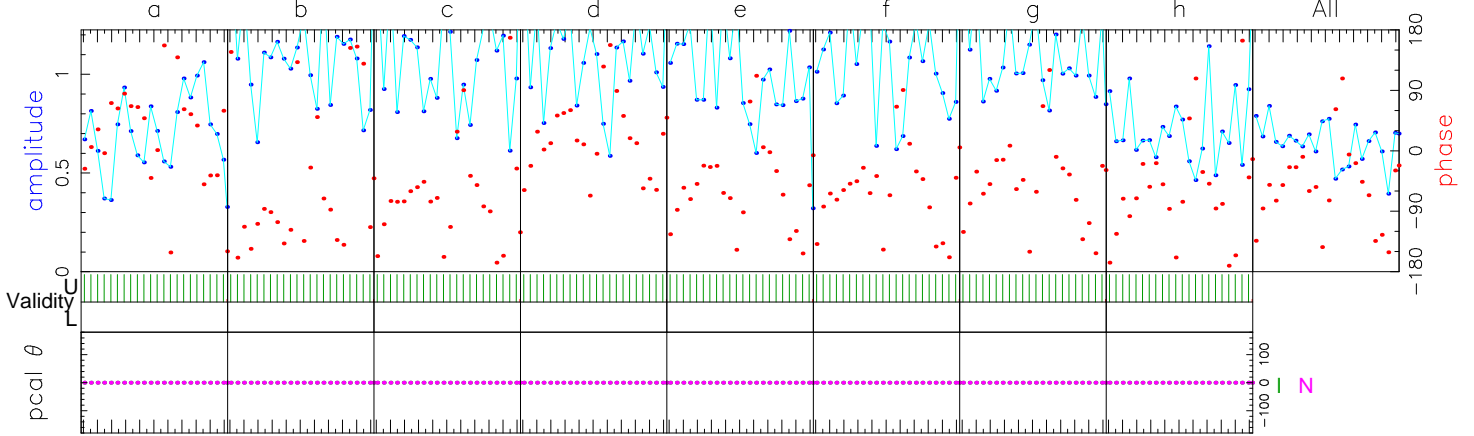


Fringe quality 5

SNR 27.4
Int time 599.599
Amp 0.408
Phase -61.9
PFD 0.0e+00
Delays (us)
SBD 0.008381
MBD -0.002479
Fringe rate (Hz) 0.002826
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232041
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

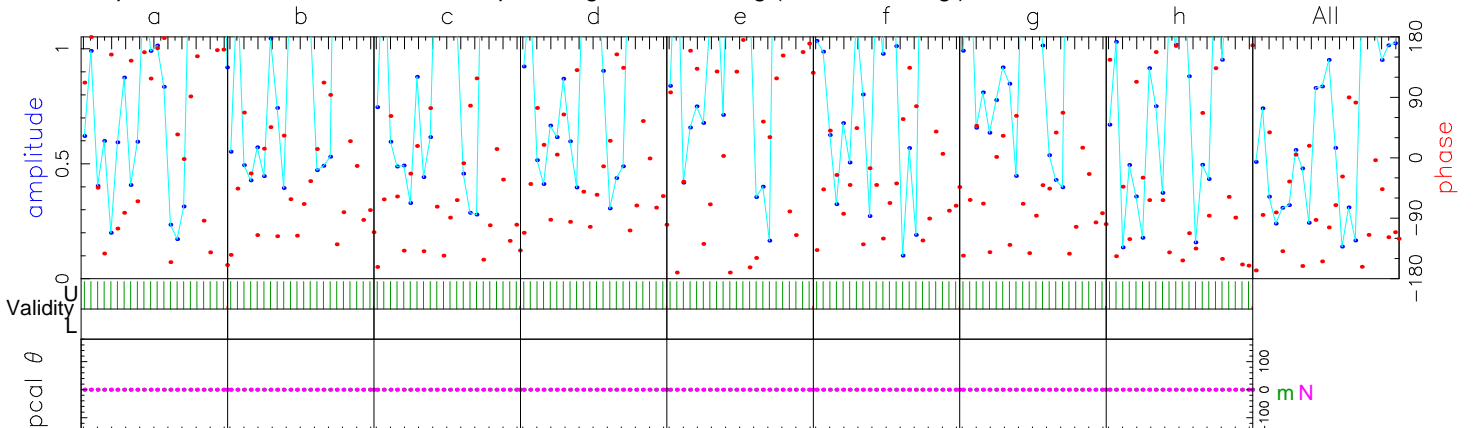
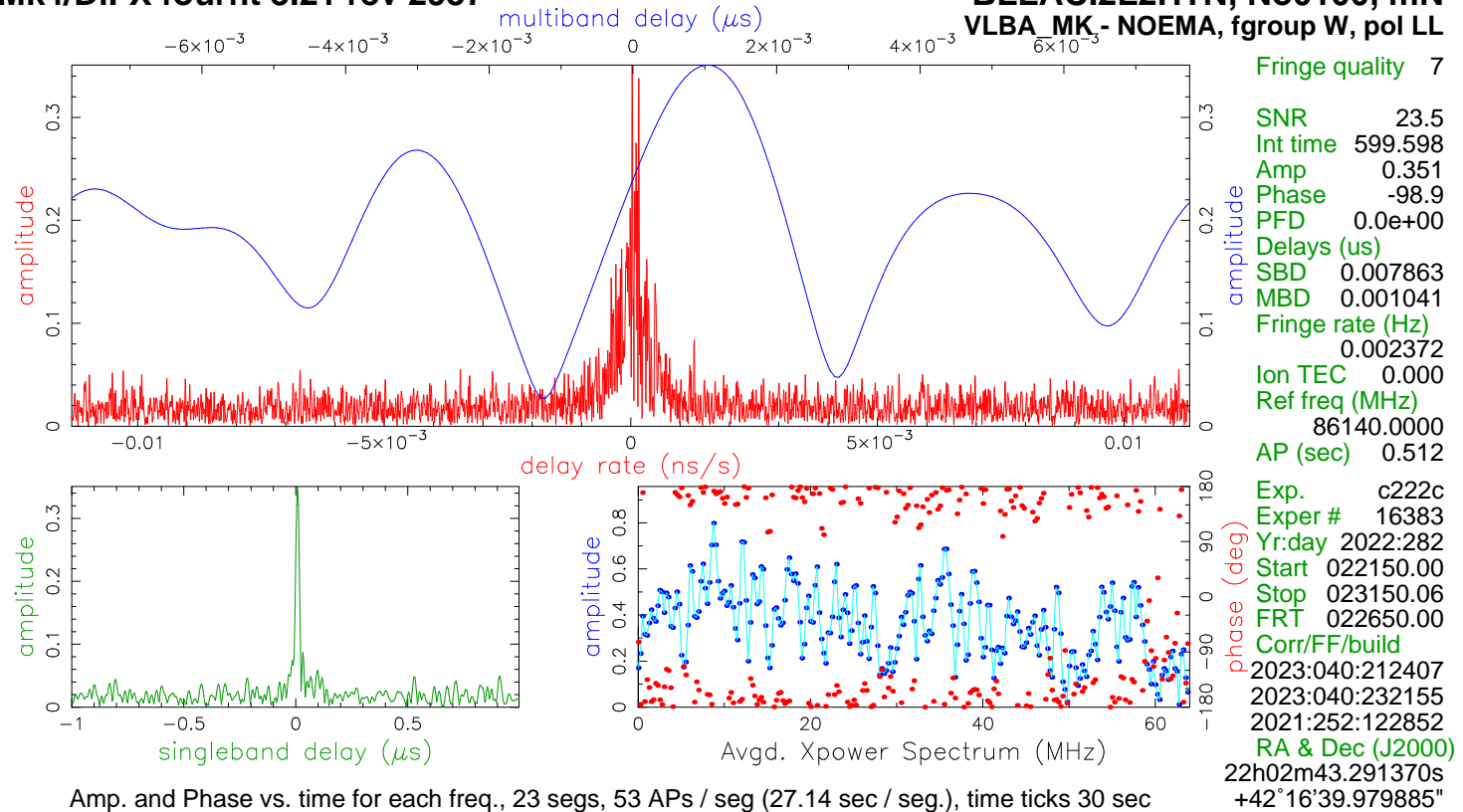


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	31.8	-133.9	-90.6	10.4	-66.5	-65.9	-54.5	-83.1	Phase	-61.9
	0.4	0.6	0.7	0.7	0.6	0.7	0.7	0.4	Ampl.	0.6
	257.0	258.7	259.4	259.6	259.5	259.2	258.6	257.1	Sbd box	259.1
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
I	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
I	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)	9.97540152387E+03		Apriori delay (usec)		9.97538837785E+03		Resid mbdelay (usec)		-2.47898E-03	+/- 4.0E-05
Sband delay (usec)	9.97539675935E+03		Apriori clock (usec)		1.0669809E+01		Resid sbdelay (usec)		8.38150E-03	+/- 3.1E-04
Phase delay (usec)	9.97538837586E+03		Apriori clockrate (us/s)		-1.3148000E-07		Resid phdelay (usec)		-1.99647E-06	+/- 1.4E-07
Delay rate (us/s)	1.17717965113E+00		Apriori rate (us/s)		1.17717961833E+00		Resid rate (us/s)		3.28020E-08	+/- 3.9E-10
Total phase (deg)	250.6		Apriori accel (us/s/s)		-6.19702925524E-05		Resid phase (deg)		-61.9	+/- 4.2

ph/seg (deg) 62.5 10.0 Search (4096X32) 0.406 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 65.0 17.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 58.5 5.9 Inc. seg. avg. 0.643 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 52.7 10.3 Inc. frq. avg. 0.587 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 I: az 63.3 el 70.0 pa -100.7 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -9327.933 -5016.599 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/IN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/IN.W.86.2L2HTN

Mk4/DiFX fourfit 3.21 rev 2937

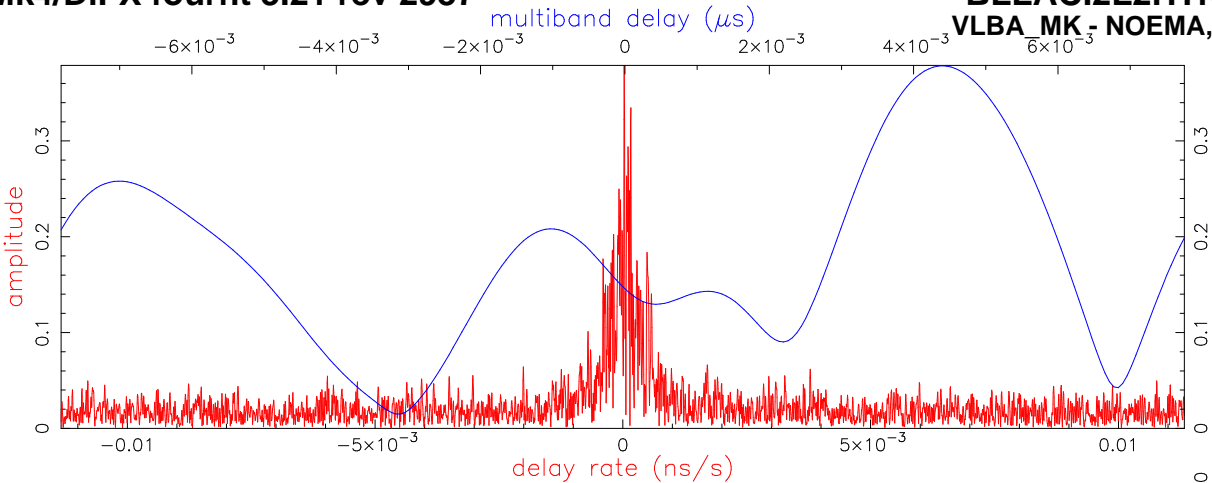
BLLAC.2L2HTN, No0100, mN
VLBA_MK- NOEMA, fgroup W, pol LL



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	175.6	-62.3	-84.3	-51.9	172.7	-61.6	-76.9	-144.2	Phase	-98.9
	0.5	0.6	0.5	0.6	0.7	0.6	0.6	0.5	Ampl.	0.6
	257.5	258.6	259.8	259.6	259.4	259.7	259.0	257.2	Sbd box	259.0
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
m	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	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	Manl PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
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)	-7.19933157466E+02		Apriori delay (usec)	-7.19934198325E+02		Resid mbdelay (usec)	1.04086E-03	+/-	4.6E-05	
Sband delay (usec)	-7.19926335075E+02		Apriori clock (usec)	1.7709179E+01		Resid sbdelay (usec)	7.86325E-03	+/-	3.7E-04	
Phase delay (usec)	-7.19934201516E+02		Apriori clockrate (us/s)	3.7801999E-07		Resid phdelay (usec)	-3.19057E-06	+/-	1.6E-07	
Delay rate (us/s)	1.84314657567E+00		Apriori rate (us/s)	1.84314654813E+00		Resid rate (us/s)	2.75360E-08	+/-	4.5E-10	
Total phase (deg)		-42.7	Apriori accel (us/s/s)	-2.37253993701E-05		Resid phase (deg)	-98.9	+/-	4.9	
RMS	80.9	11.7	Amplitude	0.351 +/- 0.015		Pcal mode: MANUAL, MANUAL		PC period (AP's)	5, 5	
ph/seg (deg)	80.9	11.7	Search (4096X32)	0.350		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
amp/seg (%)	127.7	20.4	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	61.6	6.9	Inc. seg. avg.	0.625		Sample rate(MISamp/s): 128			dr window (ns/s)	-0.011 0.011
amp/frq (%)	64.2	12.0	Inc. frq. avg.	0.561		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00
m: az 51.5 el 25.1 pa -85.1			N: az 301.9 el 29.7 pa 55.6			u,v (fr/asec)	-14366.701 -3770.364			simultaneous interpolator
Control file: cf_1234_gmva			Input file: /Exps/c222c/v1/3mm/3001/No0100/mN..2L2HTN			Output file: /Exps/c222c/v1/3mm/3001/No0100/mN.W.228.2L2HTN				

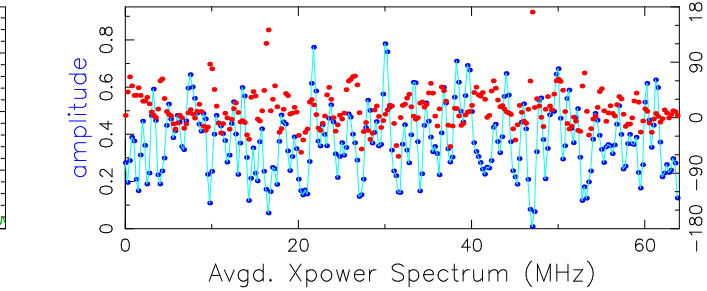
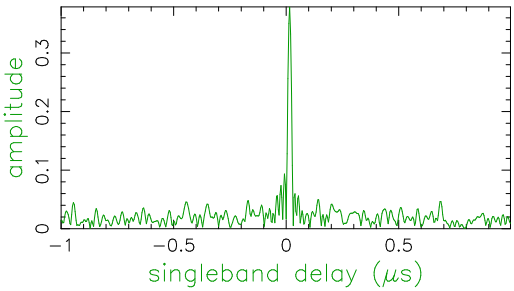
Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2L2HTN, No0100, mN
VLBA_MK - NOEMA, fgroup W, pol RR



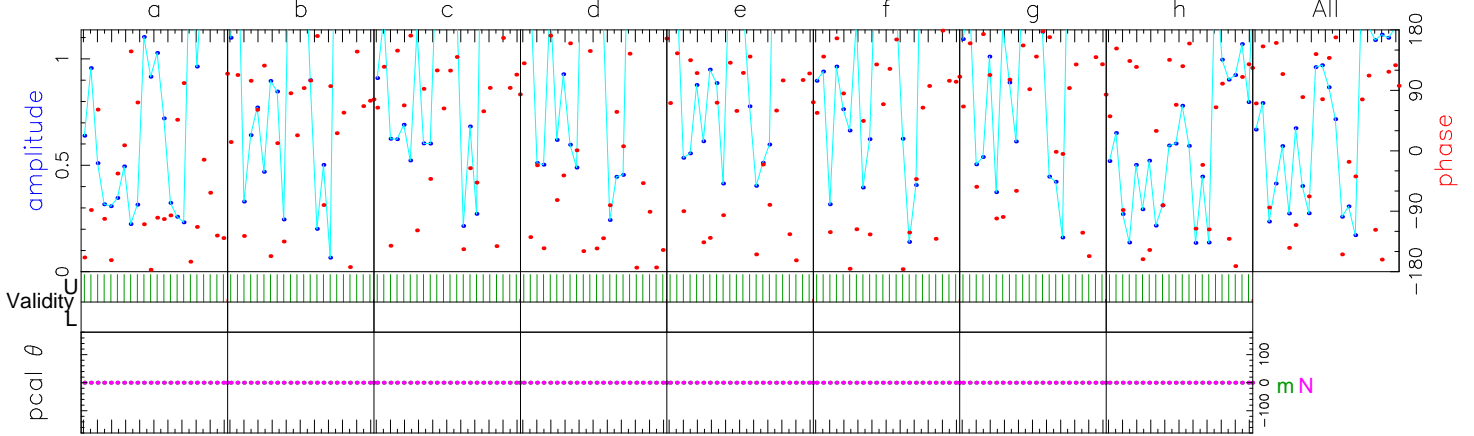
Fringe quality 5

SNR 25.4
Int time 599.598
Amp 0.379
Phase 135.7
PFD 0.0e+00
Delays (us)
SBD 0.015133
MBD 0.004360
Fringe rate (Hz)
0.002405
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232202
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-110.3	79.7	112.8	-152.0	124.2	127.5	144.0	128.8	Phase	135.7
	0.4	0.7	0.6	0.6	0.6	0.6	0.6	0.3	Ampl.	0.5
	258.9	261.0	261.1	260.8	261.3	261.0	260.1	258.4	Sbd box	260.9
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
m	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

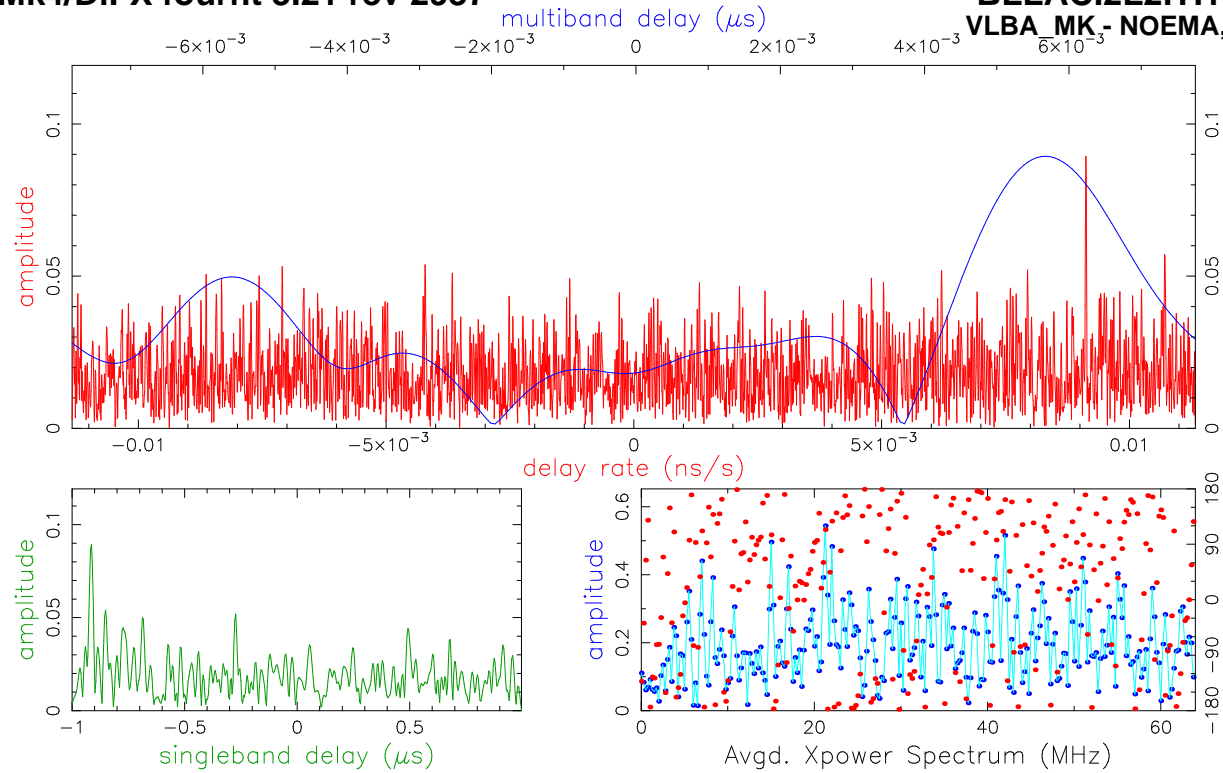
Group delay (usec)(sbd) -7.19914212841E+02 Apriori delay (usec) -7.19934198325E+02 Resid mbdelay (usec) 4.36048E-03 +/- 4.3E-05
 Sband delay (usec) -7.19919065575E+02 Apriori clock (usec) 1.7709179E+01 Resid sbdelay (usec) 1.51328E-02 +/- 3.4E-04
 Phase delay (usec) -7.19934193950E+02 Apriori clockrate (us/s) 3.7801999E-07 Resid phdelay (usec) 4.37504E-06 +/- 1.5E-07
 Delay rate (us/s) 1.84314657605E+00 Apriori rate (us/s) 1.84314654813E+00 Resid rate (us/s) 2.79154E-08 +/- 4.2E-10
 Total phase (deg) -168.1 Apriori accel (us/s/s) -2.37253993701E-05 Resid phase (deg) 135.7 +/- 4.5

RMS Theor. Amplitude 0.379 +/- 0.015 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 83.8 10.8 Search (4096X32) 0.378 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 131.6 18.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 60.8 6.4 Inc. seg. avg. 0.700 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 56.4 11.1 Inc. frq. avg. 0.547 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

m: az 51.5 el 25.1 pa -85.1 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -14366.701 -3770.364 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/mN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/mN.W.253.2L2HTN

Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2L2HTN, No0100, mN
VLBA_MK- NOEMA, fgroup W, pol LR

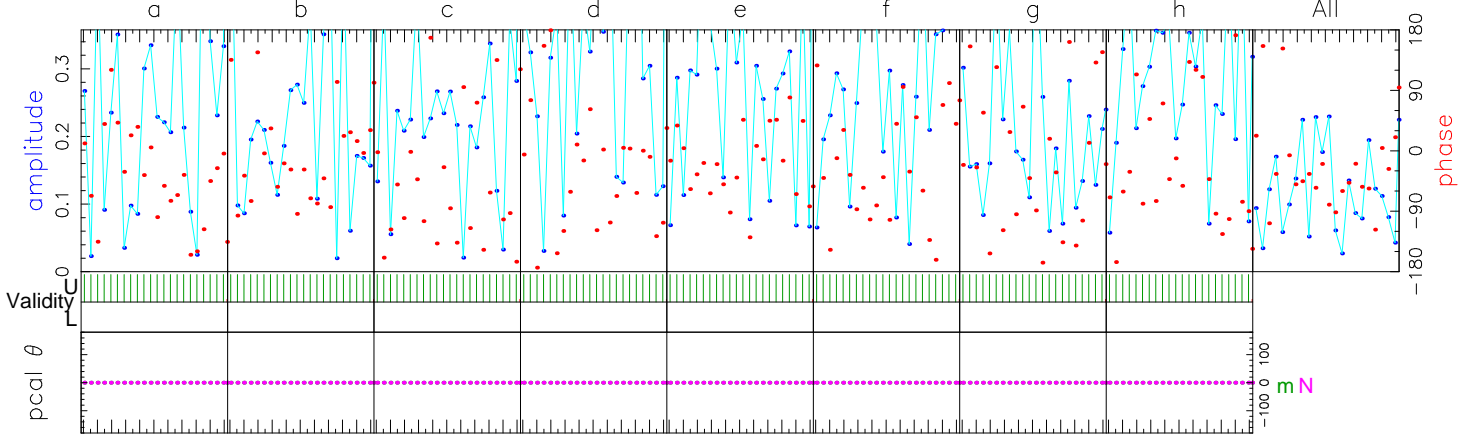


Fringe quality 0

SNR 6.0
Int time 599.598
Amp 0.119
Phase -47.3
PFD 6.0e-01
Delays (us)
SBD -0.915116
MBD 0.005666
Fringe rate (Hz)
0.786890
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232209
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0		
m	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
m:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
m:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
m	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-7.20850407663E+02	Apriori delay (usec)	-7.19934198325E+02	Resid mbdelay (usec)	5.66566E-03	+/-	1.8E-04
Sband delay (usec)	-7.20849314325E+02	Apriori clock (usec)	1.7709179E+01	Resid sbdelay (usec)	-9.15116E-01	+/-	1.4E-03
Phase delay (usec)	-7.19934198851E+02	Apriori clockrate (us/s)	3.7801999E-07	Resid phdelay (usec)	-1.52595E-06	+/-	6.1E-07
Delay rate (us/s)	1.84315568315E+00	Apriori rate (us/s)	1.84314654813E+00	Resid rate (us/s)	9.13502E-06	+/-	1.8E-09
Total phase (deg)	-351.1	Apriori accel (us/s/s)	-2.37253993701E-05	Resid phase (deg)	-47.3	+/-	19.0

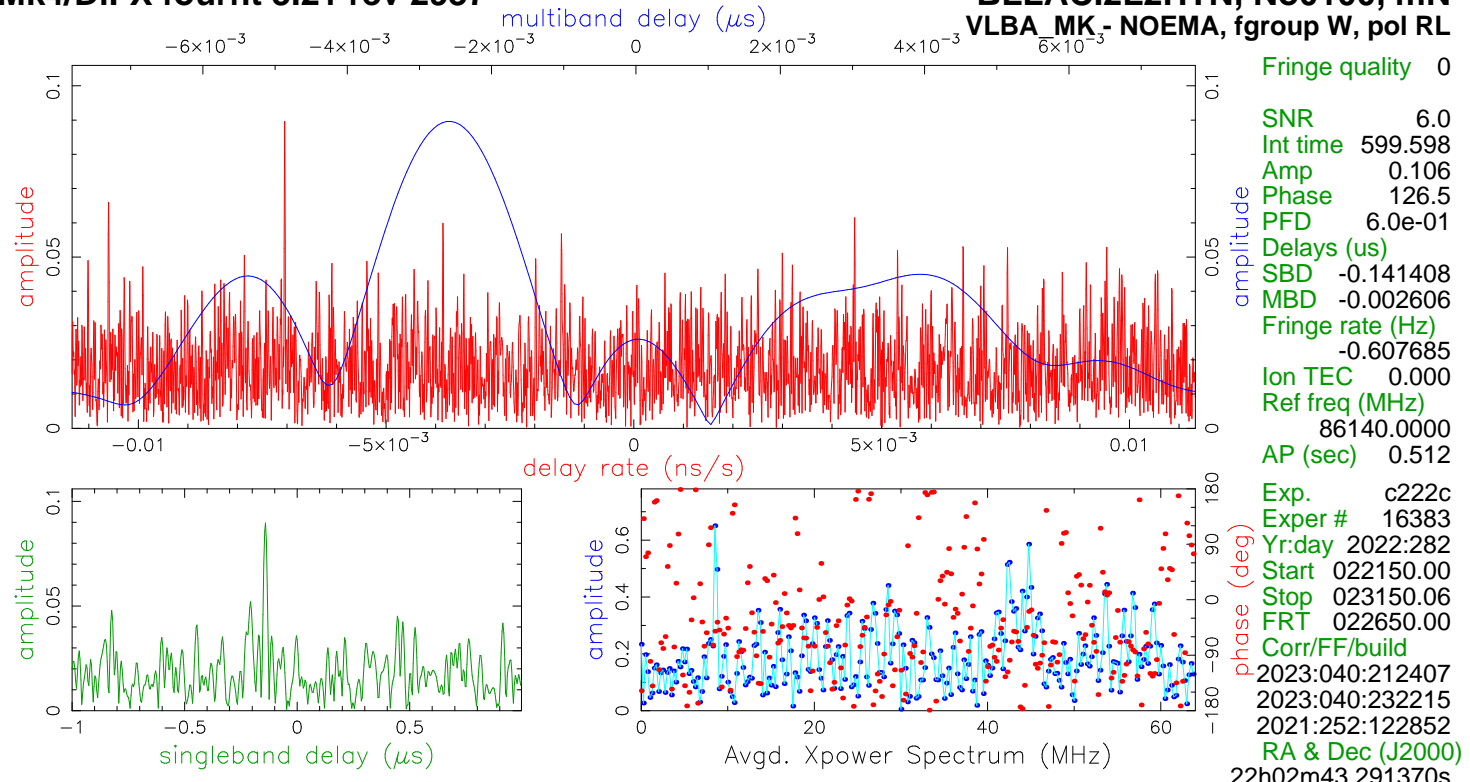
ph/seg (deg)	60.3	Theor.	45.7	Amplitude	0.119 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	76.2		79.7	Search (4096X32)	0.089	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	40.4		26.9	Inc. seg. avg.	0.118	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	51.6		47.0	Inc. frq. avg.	0.123	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 2048	nlags: 256			
							t_cohere infinite			

m: az 51.5 el 25.1 pa -85.1 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -14366.701 -3770.364 simultaneous interpolator

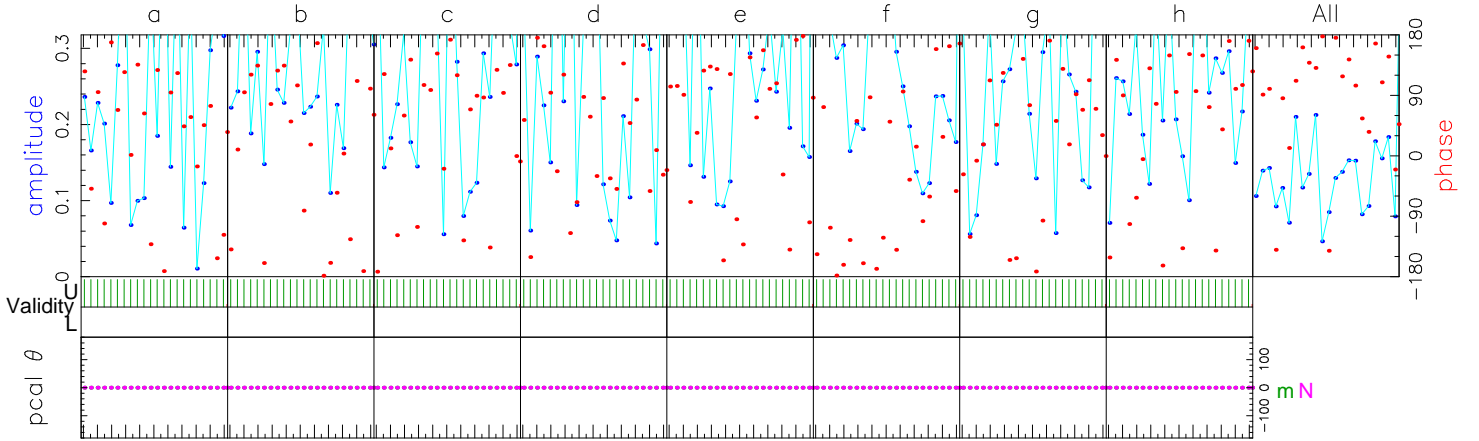
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/mN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/mN.W.273.2L2HTN

Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2L2HTN, No0100, mN
VLBA_MK- NOEMA, fgroup W, pol RL



Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	132.9	126.3	126.2	22.8	129.2	-170.8	98.3	133.9	Phase	126.5
	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	200.8	193.0	204.1	480.0	46.7	390.1	476.8	66.9	Sbd box	220.8
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
m	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	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	

Group delay (usec)(sbd)	-7.20077428885E+02	Apriori delay (usec)	-7.19934198325E+02	Resid mbdelay (usec)	-2.60556E-03	+/-	1.8E-04
Sband delay (usec)	-7.20075606325E+02	Apriori clock (usec)	1.7709179E+01	Resid sbdelay (usec)	-1.41408E-01	+/-	1.4E-03
Phase delay (usec)	-7.19934194247E+02	Apriori clockrate (us/s)	3.7801999E-07	Resid phdelay (usec)	4.07823E-06	+/-	6.1E-07
Delay rate (us/s)	1.84313949352E+00	Apriori rate (us/s)	1.84314654813E+00	Resid rate (us/s)	-7.05462E-06	+/-	1.8E-09
Total phase (deg)	-177.3	Apriori accel (us/s/s)	-2.37253993701E-05	Resid phase (deg)	126.5	+/-	19.0

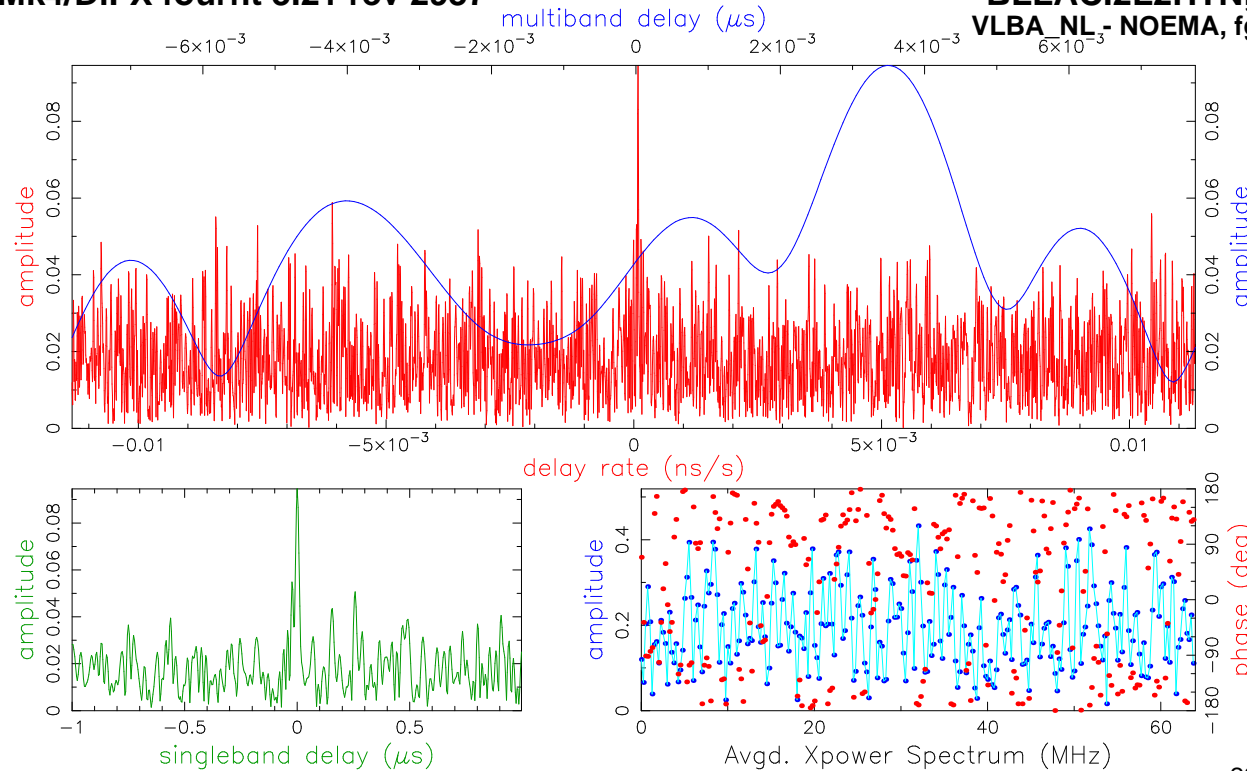
ph/seg (deg)	60.4	Theor.	45.7	Amplitude	0.106 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	66.5		79.7	Search (4096X32)	0.088	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	51.0		26.9	Inc. seg. avg.	0.115	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	37.8		47.0	Inc. frq. avg.	0.110	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

m: az 51.5 el 25.1 pa -85.1 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -14366.701 -3770.364 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/mN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/mN.W.291.2L2HTN

Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2L2HTN, No0100, nN
VLBA_NL- NOEMA, fgroup W, pol LR

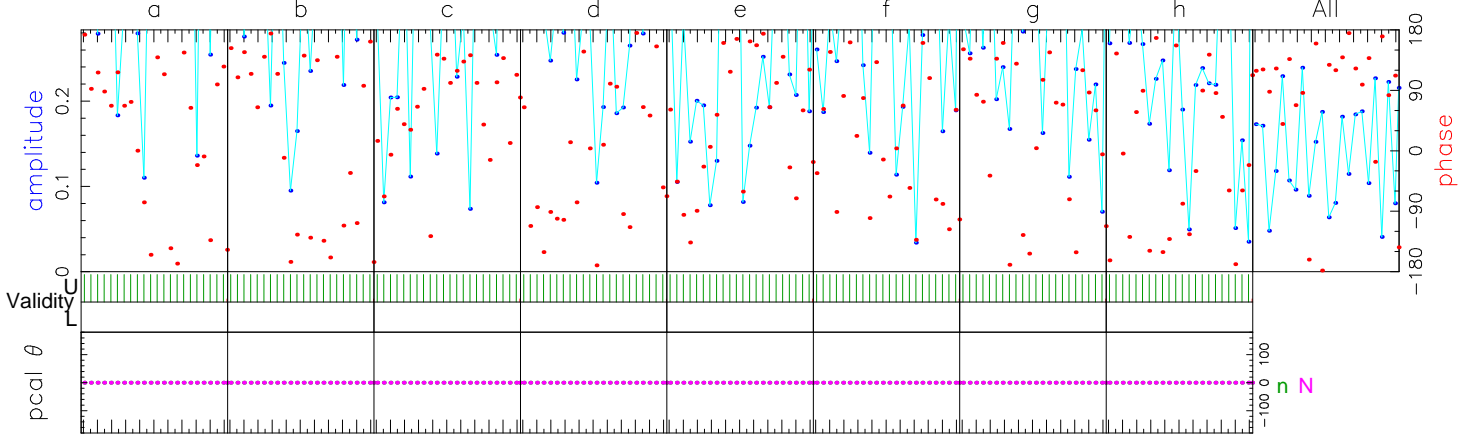


Fringe quality 0

SNR 6.3
Int time 599.957
Amp 0.095
Phase 114.7
PFD 1.2e-01
Delays (us)
SBD 0.000009
MBD 0.003496
Fringe rate (Hz) 0.007177
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232047
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



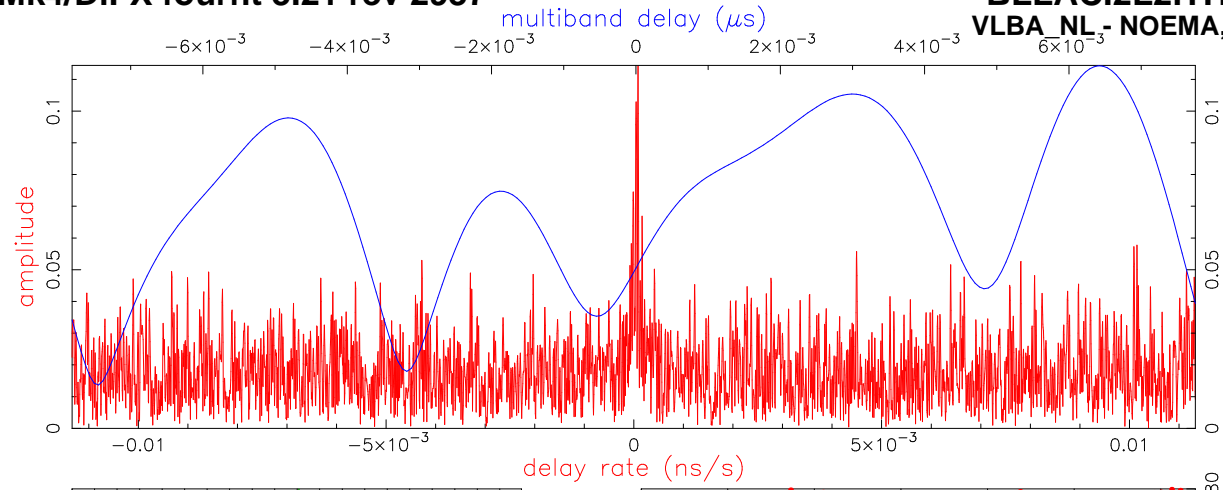
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0		
n	0	0	0	0	0	0	0	0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	1.10132220714E+04	Apriori delay (usec)	1.10132185750E+04	Resid mbdelay (usec)	3.49642E-03	+/-	1.7E-04
Sband delay (usec)	1.10132185843E+04	Apriori clock (usec)	3.6932659E+01	Resid sbdelay (usec)	9.25000E-06	+/-	1.4E-03
Phase delay (usec)	1.10132185787E+04	Apriori clockrate (us/s)	4.2387000E-07	Resid phdelay (usec)	3.70025E-06	+/-	5.8E-07
Delay rate (us/s)	9.37434719938E-01	Apriori rate (us/s)	9.37434636621E-01	Resid rate (us/s)	8.33175E-08	+/-	1.7E-09
Total phase (deg)	133.8	Apriori accel (us/s/s)	-6.11583107005E-05	Resid phase (deg)	114.7	+/-	18.1

ph/seg (deg)	48.1	Theor.	43.4	Amplitude	0.095 +/- 0.015	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	81.3	Search (4096X32)	0.094	Search	0.094	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	79.0	Inc. seg. avg.	0.110	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	80.7	Inc. frq. avg.	0.104	Inc. seg. avg.	0.110	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.104	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

n: az 81.9 el 82.7 pa -91.7 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -7466.322 -4465.883 simultaneous interpolator

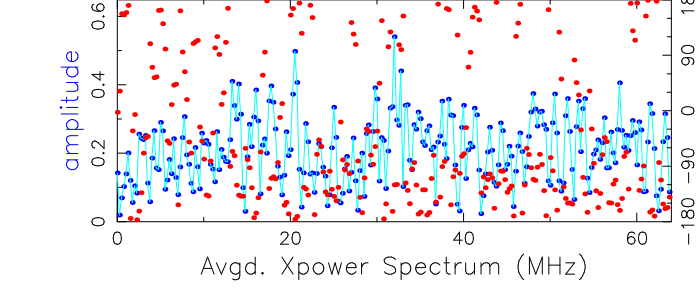
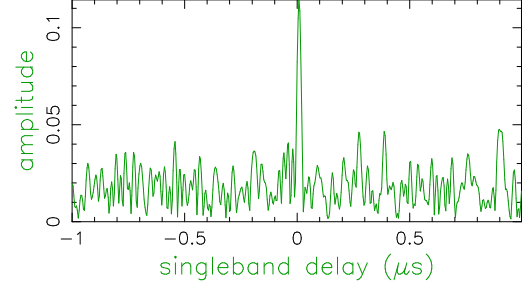
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/nN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/nN.W.102.2L2HTN



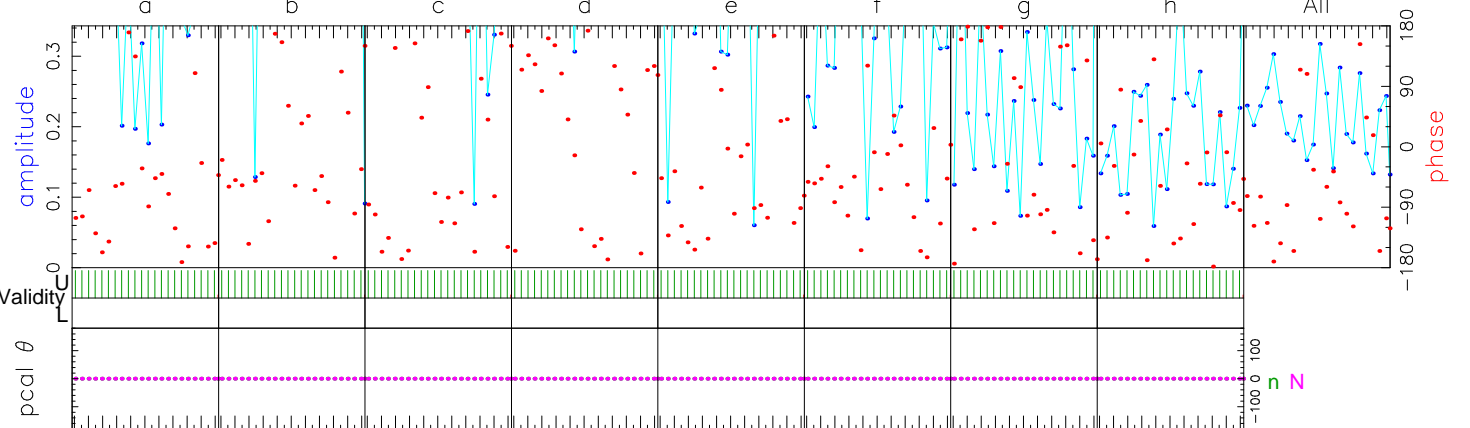
Fringe quality 9

SNR 7.7
Int time 599.957
Amp 0.114
Phase -111.2
PFD 1.2e-05
Delays (us)
SBD 0.008327
MBD 0.006427
Fringe rate (Hz) 0.007244
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232055
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

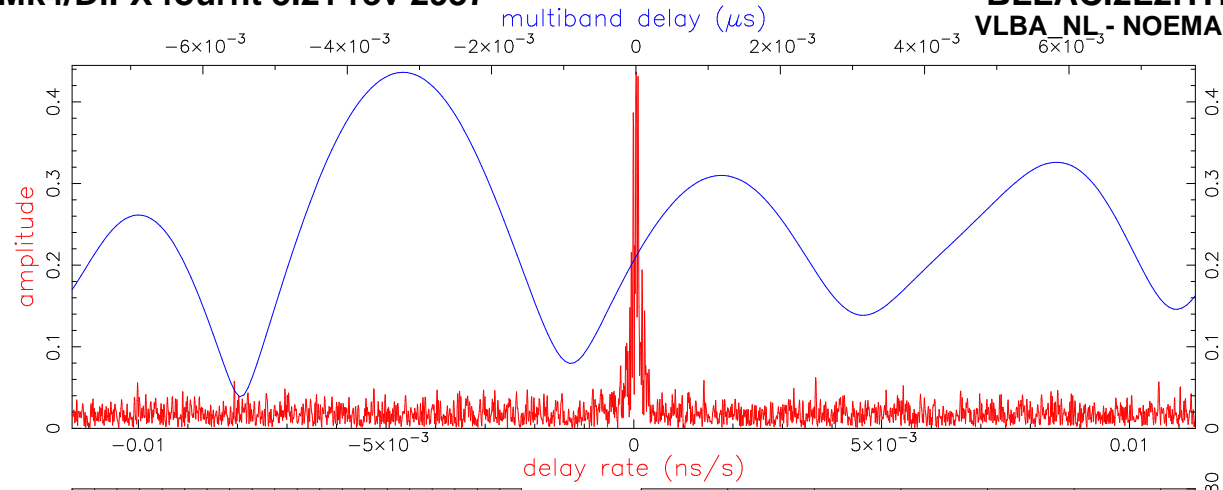


Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

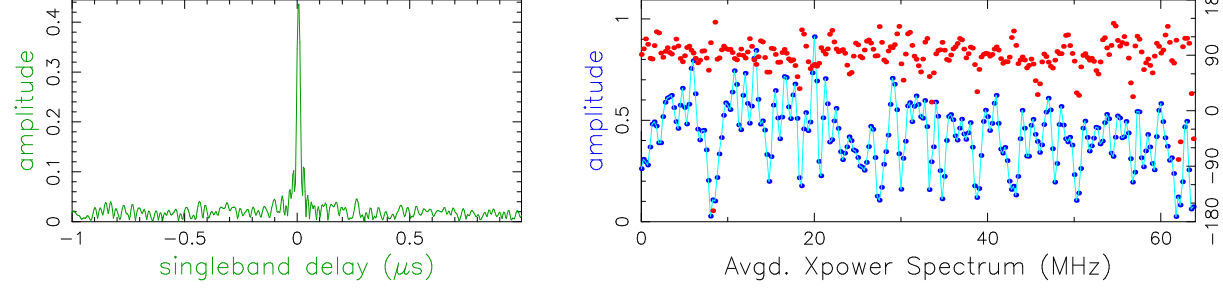


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-108.5	-55.2	-148.7	140.3	-82.3	-62.5	-168.4	-68.1	Phase	-111.2
	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.1	Ampl.	0.2
	257.5	260.1	260.2	260.2	259.9	258.5	326.2	139.7	Sbd box	259.1
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
n	0	0	0	0	0	0	0	0	PC freqs	
N	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: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)	1.10132250016E+04		Apriori delay (usec)		1.10132185750E+04		Resid mbdelay (usec)		6.42661E-03	+/- 1.4E-04
Sband delay (usec)	1.10132269020E+04		Apriori clock (usec)		3.6932659E+01		Resid sbdelay (usec)		8.32700E-03	+/- 1.1E-03
Phase delay (usec)	1.10132185714E+04		Apriori clockrate (us/s)		4.2387000E-07		Resid phdelay (usec)		-3.58653E-06	+/- 4.8E-07
Delay rate (us/s)	9.37434720712E-01		Apriori rate (us/s)		9.37434636621E-01		Resid rate (us/s)		8.40909E-08	+/- 1.4E-09
Total phase (deg)			Apriori accel (us/s/s)		-6.11583107005E-05		Resid phase (deg)		-111.2	+/- 15.0

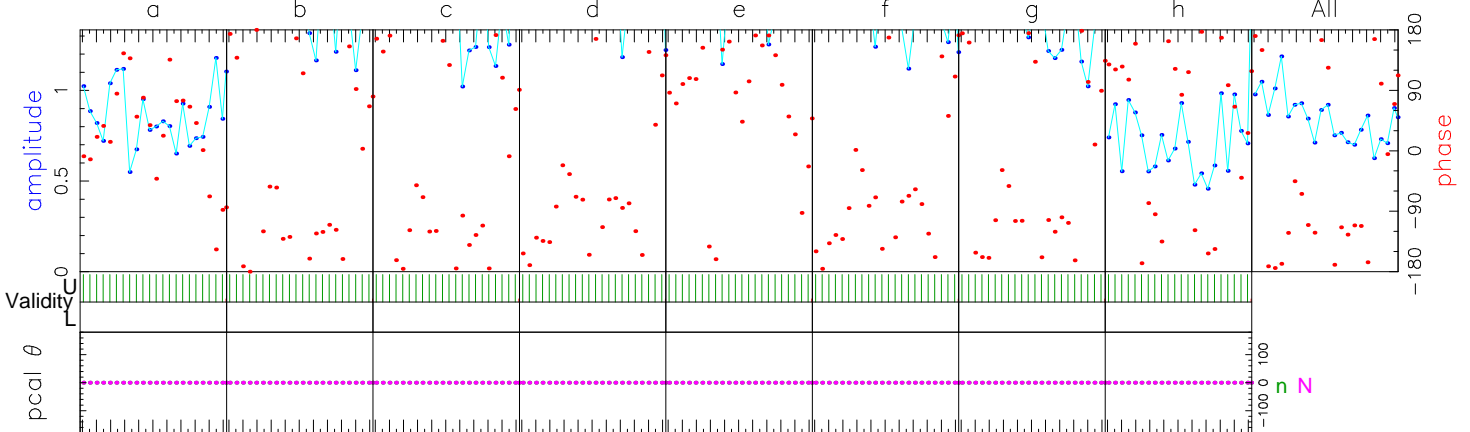
ph/seg (deg) RMS Theor. Amplitude 0.114 +/- 0.015 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 99.3 62.6 Interp. 0.113 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 64.1 21.1 Inc. seg. avg. 0.181 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 95.2 36.9 Inc. frq. avg. 0.189 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 81.9 el 82.7 pa -91.7 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -7466.322 -4465.883 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/nN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/nN.W.108.2L2HTN



Fringe quality 3
 SNR 29.8
 Int time 599.957
 Amp 0.445
 Phase -157.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.006090
 MBD -0.003243
 Fringe rate (Hz)
 0.003947
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c222c
 Exper # 16383
 Yr:day 2022:282
 Start 022150.00
 Stop 023150.06
 FRT 022650.00
 Corr/FF/build
 2023:040:212407
 2023:040:232029
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"



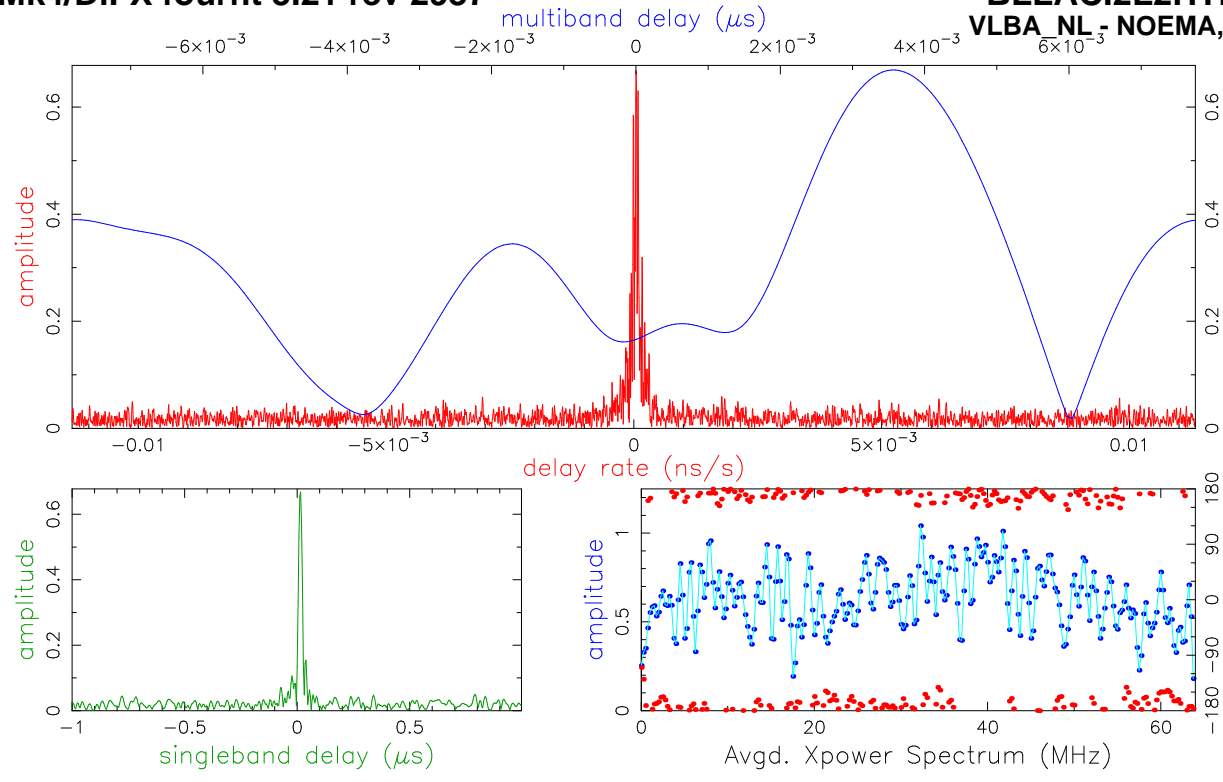
Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	39.0	-158.7	-162.3	-115.4	118.0	-119.4	-142.9	144.2	Phase	-157.6
	0.4	0.8	0.8	0.9	0.8	0.8	0.7	0.3	Ampl.	0.7
	256.3	258.1	258.9	258.7	258.8	258.6	257.8	256.3	Sbd box	258.6
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
n	0	0	0	0	0	0	0	0	PC freqs	
N	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: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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.10132309573E+04	Apriori delay (usec)	1.10132185750E+04	Resid mbdelay (usec)	-3.24273E-03	+/-	3.6E-05
Sband delay (usec)	1.10132246648E+04	Apriori clock (usec)	3.6932659E+01	Resid sbdelay (usec)	6.08975E-03	+/-	2.9E-04
Phase delay (usec)	1.10132185699E+04	Apriori clockrate (us/s)	4.2387000E-07	Resid phdelay (usec)	-5.08318E-06	+/-	1.2E-07
Delay rate (us/s)	9.37434682443E-01	Apriori rate (us/s)	9.37434636621E-01	Resid rate (us/s)	4.58221E-08	+/-	3.6E-10
Total phase (deg)	-138.6	Apriori accel (us/s/s)	-6.11583107005E-05	Resid phase (deg)	-157.6	+/-	3.8

ph/seg (deg)	67.0	RMS	9.2	Theor.	9.2	Amplitude	0.445 +/- 0.015	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	95.9	67.0	9.2	Search (4096X32)	0.431	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	82.3	95.9	16.1	Inc. seg. avg.	0.840	Inc. frq. avg.	0.695	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	73.4	82.3	5.4	Inc. frq. avg.	0.695	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	dr window (ns/s)	-0.011 0.011
n: az 81.9 el 82.7 pa -91.7		N: az 301.9 el 29.7 pa 55.6		u, v (fr/asec)	-7466.322 -4465.883							ion window (TEC)	0.00 0.00

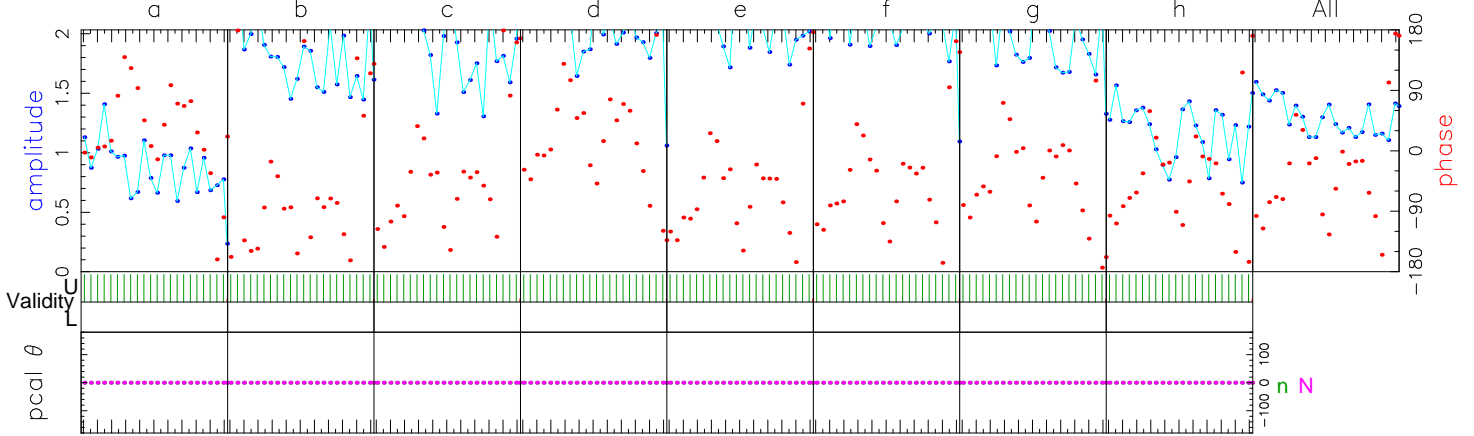


Fringe quality 3

SNR 45.4
Int time 599.957
Amp 0.678
Phase -58.1
PFD 0.0e+00
Delays (us)
SBD 0.014074
MBD 0.003474
Fringe rate (Hz)
0.003940
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

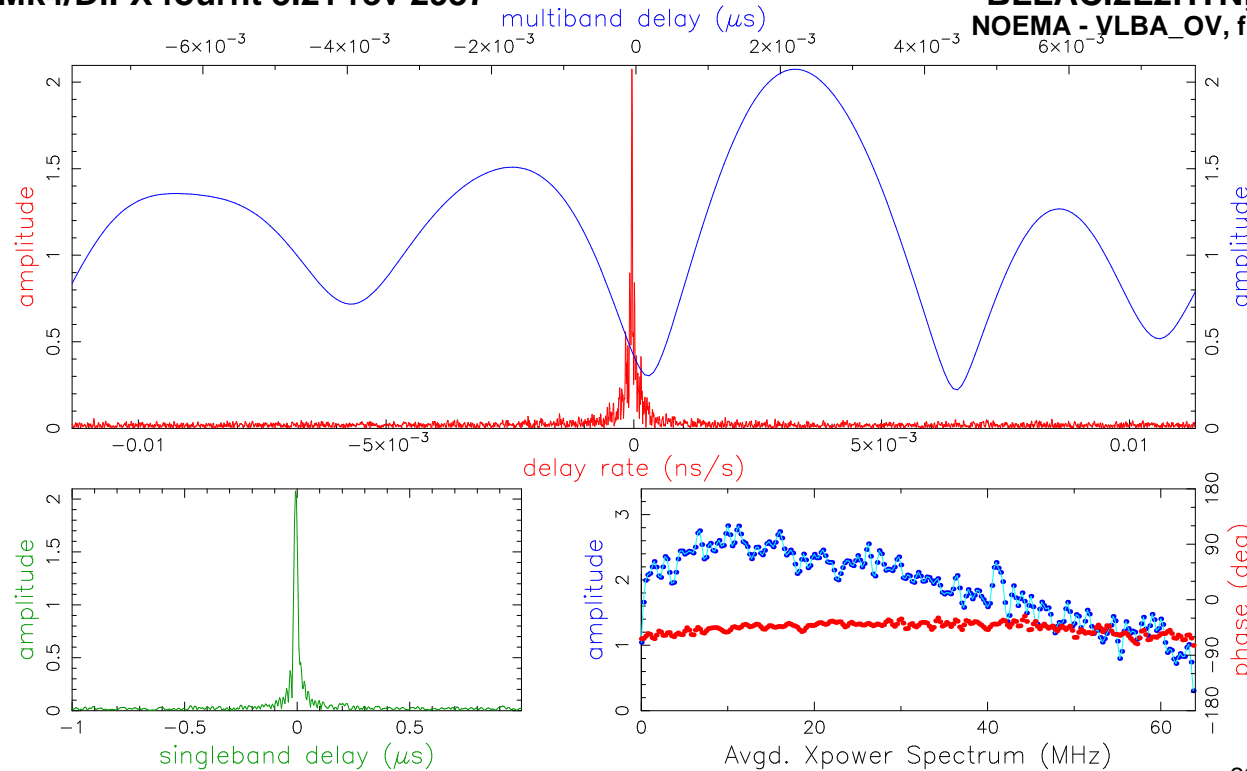
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232037
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	35.5	-126.5	-80.6	16.1	-78.2	-65.8	-44.7	-57.7	Phase	-58.1
	0.5	0.9	1.0	1.1	1.1	1.1	1.1	0.7	Ampl.	0.9
	258.2	260.6	261.2	261.1	260.7	260.8	260.1	258.6	Sbd box	260.6
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
n	0	0	0	0	0	0	0	0	PC freqs	
N	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: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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.10132376742E+04		Apriori delay (usec)		1.10132185750E+04		Resid mbdelay (usec)		3.47418E-03	+/- 2.4E-05
Sband delay (usec)	1.10132326493E+04		Apriori clock (usec)		3.6932659E+01		Resid sbdelay (usec)		1.40743E-02	+/- 1.9E-04
Phase delay (usec)	1.10132185732E+04		Apriori clockrate (us/s)		4.2387000E-07		Resid phdelay (usec)		-1.87230E-06	+/- 8.1E-08
Delay rate (us/s)	9.37434682361E-01		Apriori rate (us/s)		9.37434636621E-01		Resid rate (us/s)		4.57399E-08	+/- 2.3E-10
Total phase (deg)			Apriori accel (us/s/s)		-6.11583107005E-05		Resid phase (deg)		-58.1	+/- 2.5

ph/seg (deg) 67.2 6.1 Search (4096X32) 0.662 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 94.6 10.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 57.9 3.6 Inc. seg. avg. 1.294 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 48.6 6.2 Inc. frq. avg. 0.930 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 81.9 el 82.7 pa -91.7 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -7466.322 -4465.883 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/nN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/nN.W.71.2L2HTN

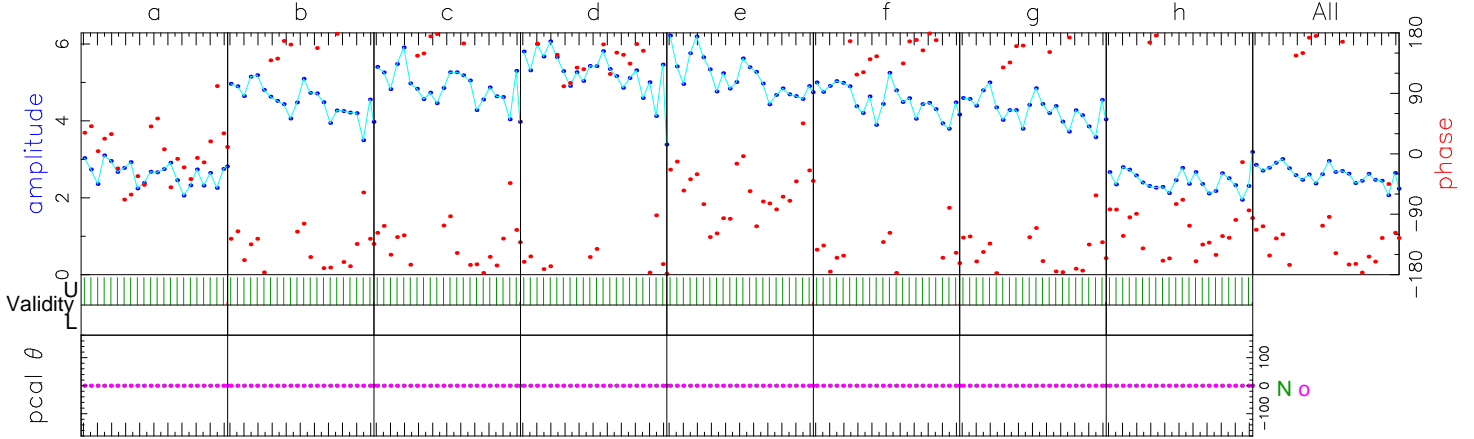


Fringe quality 2

SNR 140.4
Int time 599.599
Amp 2.097
Phase -147.3
PFD 0.0e+00
Delays (us)
SBD -0.006460
MBD 0.002213
Fringe rate (Hz)
-0.003465
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

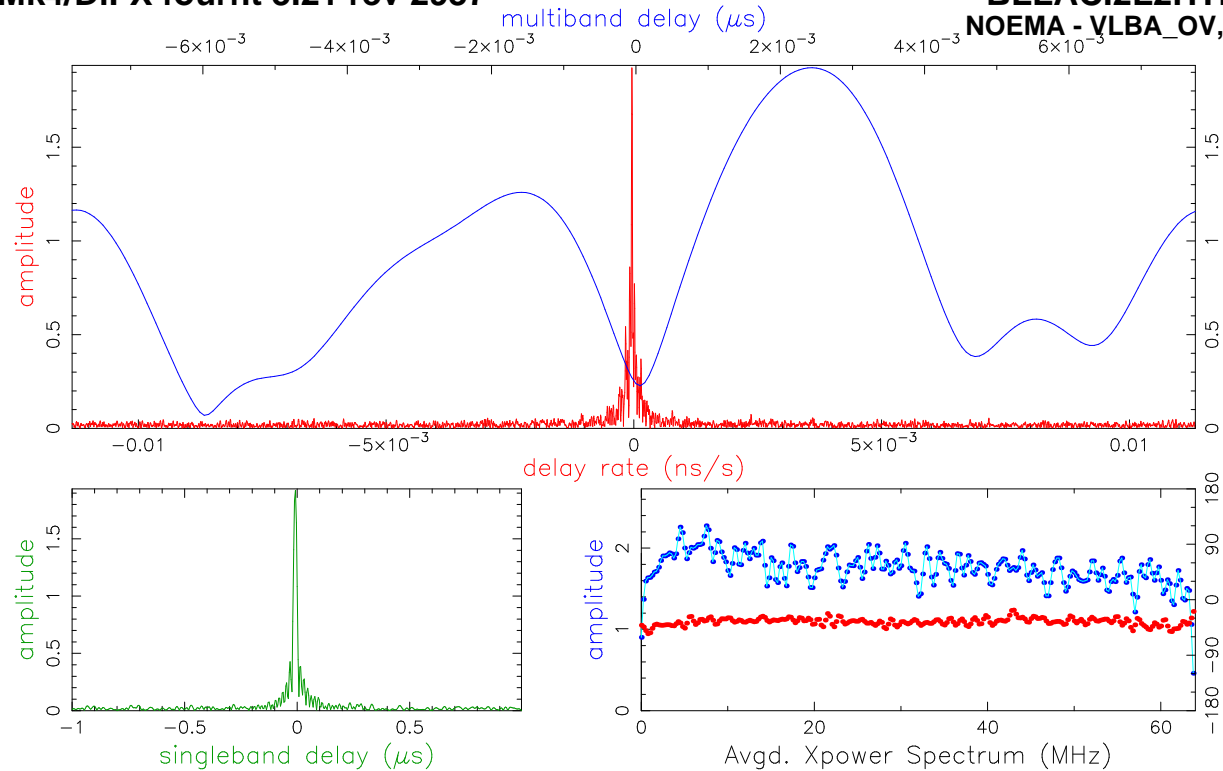
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232026
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	0.3	-155.5	-147.2	165.3	-56.2	-175.7	-160.4	-117.1	Phase	-147.3
	2.0	3.6	3.9	4.2	4.0	3.6	3.4	1.9	Ampl.	3.3
	257.3	255.6	254.8	255.1	255.3	255.1	255.7	257.5	Sbd box	255.3
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	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	
									Tracks	
Group delay (usec)(sbd)	-8.79448721101E+03		Apriori delay (usec)		-8.79447379911E+03		Resid mbdelay (usec)		2.21310E-03	+/- 7.7E-06
Sband delay (usec)	-8.79448025886E+03		Apriori clock (usec)		-2.2520115E+01		Resid sbdelay (usec)		-6.45975E-03	+/- 6.1E-05
Phase delay (usec)	-8.79447380386E+03		Apriori clockrate (us/s)		-3.2452001E-07		Resid phdelay (usec)		-4.75050E-06	+/- 2.6E-08
Delay rate (us/s)	-1.33829822386E+00		Apriori rate (us/s)		-1.33829818364E+00		Resid rate (us/s)		-4.02287E-08	+/- 7.6E-11
Total phase (deg)			Apriori accel (us/s/s)		5.40792983713E-05		Resid phase (deg)		-147.3	+/- 0.8

ph/seg (deg) 40.2 2.0 Search (4096X32) 2.025 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 27.0 3.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 75.6 1.2 Inc. seg. avg. 2.620 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 70.7 2.0 Inc. frq. avg. 3.329 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 301.9 el 29.7 pa 55.6 o: az 68.0 el 61.7 pa -87.5 u,v (fr/asec) 10550.683 4290.953 simultaneous interpolator

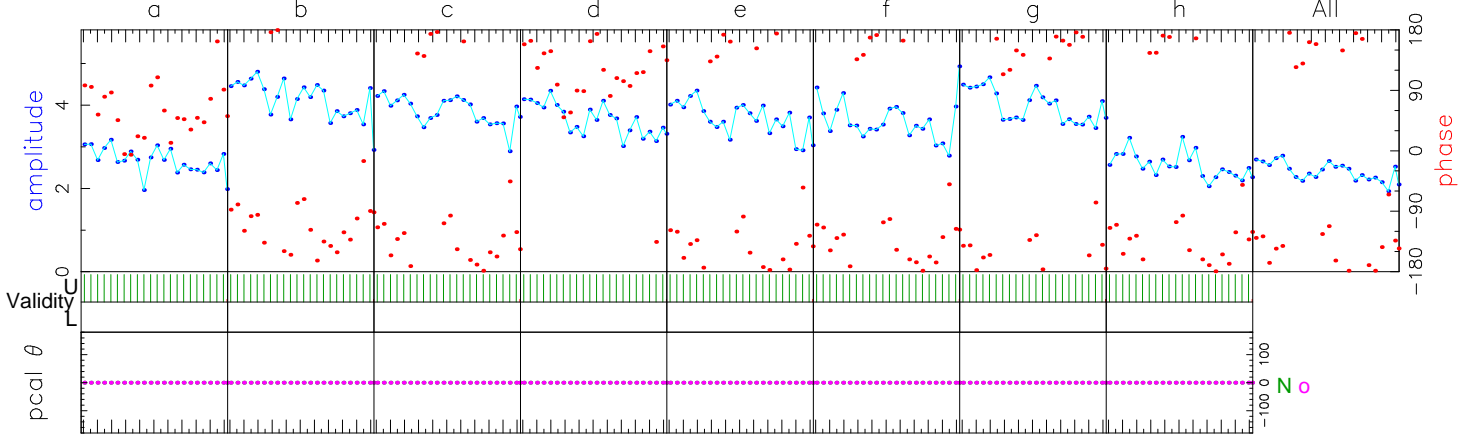


Fringe quality 2

SNR 129.7
Int time 599.599
Amp 1.937
Phase -164.4
PFD 0.0e+00
Delays (us)
SBD -0.008854
MBD 0.002370
Fringe rate (Hz)
-0.003480
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232032
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

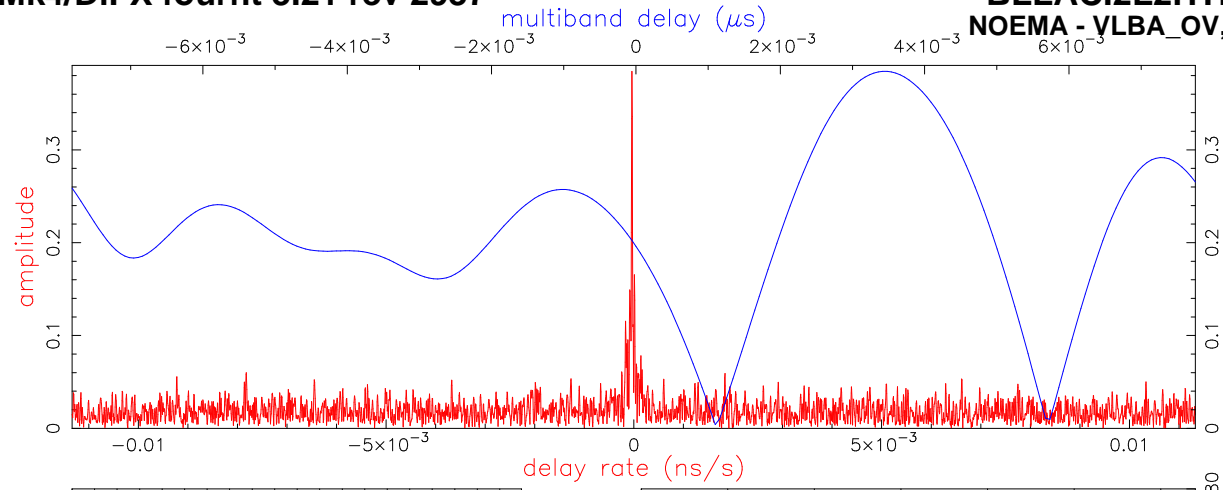


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
60.1	-118.9	-149.1	123.9	-157.0	-149.2	-175.4	-149.6	-149.6	Phase	-164.4
2.1	3.3	3.1	2.9	2.9	2.8	3.2	2.0	2.0	Ampl.	2.8
257.1	254.9	254.5	254.5	254.6	254.6	255.5	257.3	257.3	Sbd box	254.7
U/L 1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
N 0	0	0	0	0	0	0	0	0	PC freqs	
o 0	0	0	0	0	0	0	0	0	PC freqs	
N:o 0:0	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	0:0	Mani PC	
N 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o 1000	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	
									Tracks	
Group delay (usec)(sbd)	-8.79448705417E+03		Apriori delay (usec)	-8.79447379911E+03	Resid mbdelay (usec)	2.36995E-03	+/-	8.4E-06		
Sband delay (usec)	-8.79448265336E+03		Apriori clock (usec)	-2.2520115E+01	Resid sbdelay (usec)	-8.85425E-03	+/-	6.6E-05		
Phase delay (usec)	-8.79447380442E+03		Apriori clockrate (us/s)	-3.2452001E-07	Resid phdelay (usec)	-5.30270E-06	+/-	2.8E-08		
Delay rate (us/s)	-1.33829822404E+00		Apriori rate (us/s)	-1.33829818364E+00	Resid rate (us/s)	-4.04012E-08	+/-	8.2E-11		
Total phase (deg)		-184.5	Apriori accel (us/s/s)	5.40792983713E-05	Resid phase (deg)	-164.4	+/-	0.9		

RMS Theor. Amplitude 1.937 +/- 0.015
ph/seg (deg) 39.9 2.1 Search (4096X32) 1.899
amp/seg (%) 27.3 3.7 Interp. 0.000
ph/frq (deg) 66.4 1.2 Inc. seg. avg. 2.417
amp/frq (%) 49.9 2.2 Inc. frq. avg. 2.794

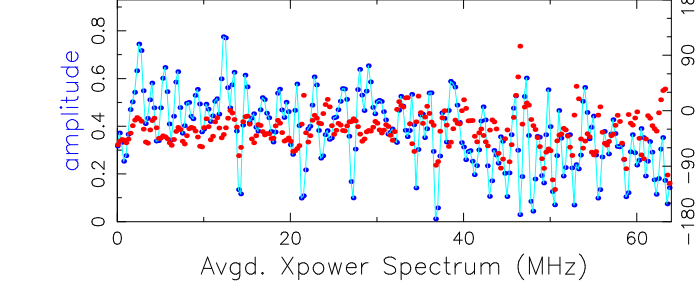
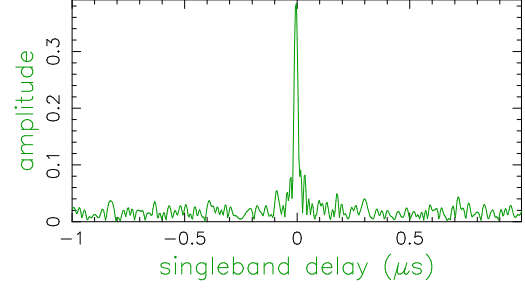
Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

N: az 301.9 el 29.7 pa 55.6 o: az 68.0 el 61.7 pa -87.5 u,v (fr/asec) 10550.683 4290.953 simultaneous interpolator



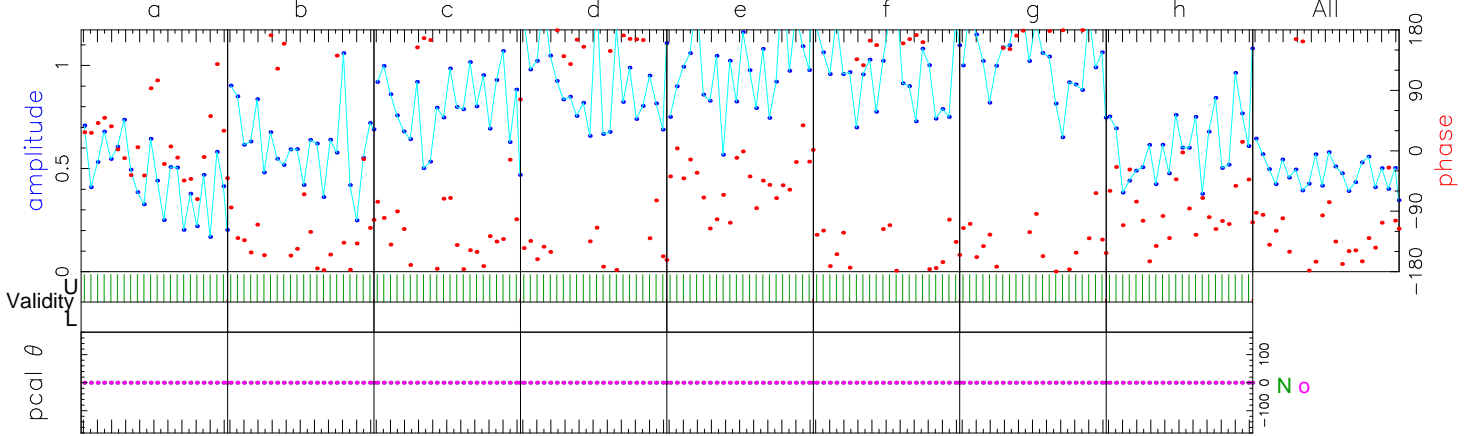
Fringe quality 6

SNR 26.2
Int time 599.599
Amp 0.391
Phase -130.8
PFD 0.0e+00
Delays (us)
SBD -0.005548
MBD 0.003427
Fringe rate (Hz)
-0.003438
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



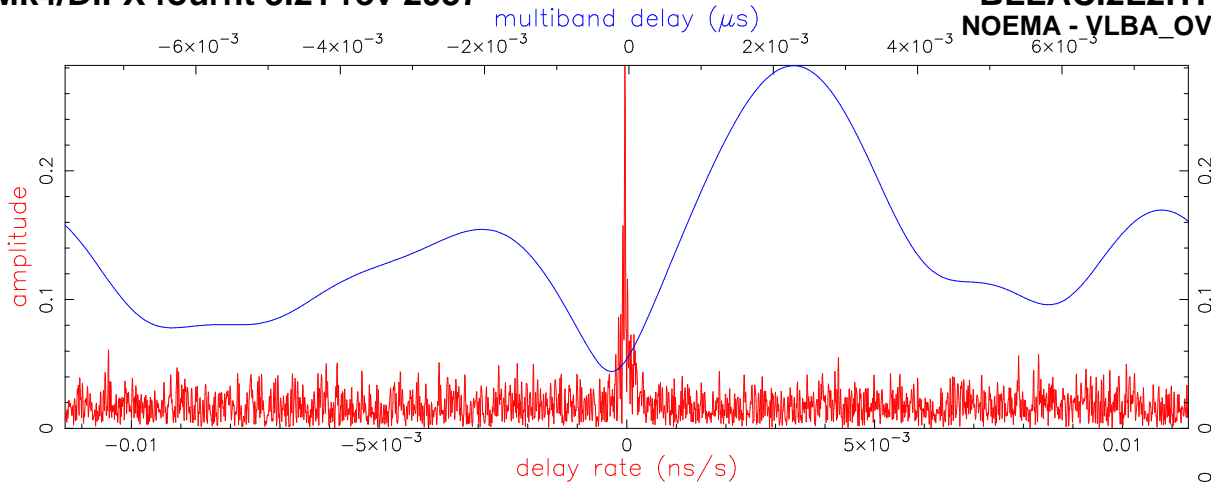
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232038
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



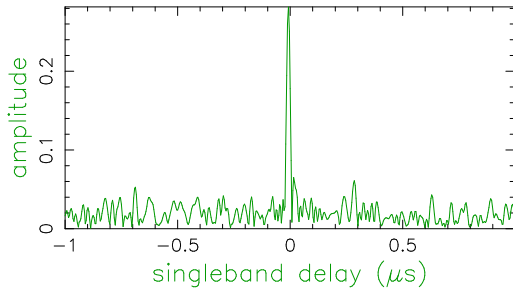
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	17.8	-143.9	-132.7	-166.4	-42.2	-164.2	-153.0	-79.0	Phase	-130.8
	0.3	0.4	0.6	0.7	0.8	0.8	0.8	0.4	Ampl.	0.6
	257.4	255.7	255.2	255.4	255.6	255.3	256.2	258.2	Sbd box	255.6
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
N	0	0	0	0	0	0	0	0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-8.79448599748E+03		Apriori delay (usec)		-8.79447379911E+03		Resid mbdelay (usec)		3.42664E-03	+/- 4.1E-05
Sband delay (usec)	-8.79447934711E+03		Apriori clock (usec)		-2.2520115E+01		Resid sbdelay (usec)		-5.54800E-03	+/- 3.3E-04
Phase delay (usec)	-8.79447380333E+03		Apriori clockrate (us/s)		-3.2452001E-07		Resid phdelay (usec)		-4.21794E-06	+/- 1.4E-07
Delay rate (us/s)	-1.33829822355E+00		Apriori rate (us/s)		-1.33829818364E+00		Resid rate (us/s)		-3.99152E-08	+/- 4.1E-10
Total phase (deg)			Apriori accel (us/s/s)		5.40792983713E-05		Resid phase (deg)		-130.8	+/- 4.4

ph/seg (deg) 40.5 10.5 Search (4096X32) 0.382 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 30.5 18.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 77.1 6.2 Inc. seg. avg. 0.480 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 75.5 10.8 Inc. frq. avg. 0.617 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 301.9 el 29.7 pa 55.6 o: az 68.0 el 61.7 pa -87.5 u,v (fr/asec) 10550.683 4290.953 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/No..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/No.W.80.2L2HTN

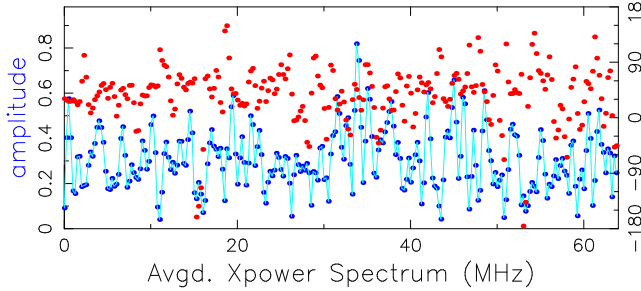


Fringe quality 7

SNR 18.9
Int time 599.599
Amp 0.282
Phase -78.1
PFD 0.0e+00
Delays (us)
SBD -0.008156
MBD 0.002266
Fringe rate (Hz)
-0.003573
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

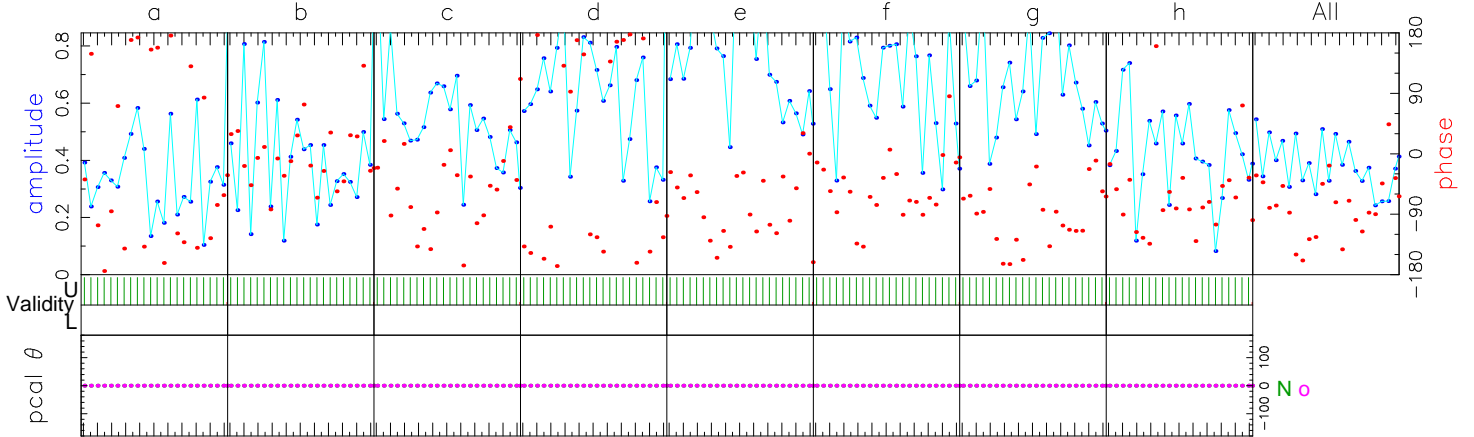


delay rate (ns/s)



Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232044
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-150.3	-1.1	-51.5	-168.5	-70.7	-51.1	-93.1	-72.6	Phase	-78.1
	0.2	0.3	0.4	0.5	0.6	0.5	0.5	0.3	Ampl.	0.4
	256.1	255.0	254.4	254.1	254.6	254.5	254.9	256.8	Sbd box	254.9
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	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)	-8.79448715782E+03	Apriori delay (usec)	-8.79447379911E+03	Resid mbdelay (usec)	2.26629E-03	+/-	5.7E-05
Sband delay (usec)	-8.7944819561E+03	Apriori clock (usec)	-2.2520115E+01	Resid sbdelay (usec)	-8.15650E-03	+/-	4.6E-04
Phase delay (usec)	-8.79447380163E+03	Apriori clockrate (us/s)	-3.2452001E-07	Resid phdelay (usec)	-2.51889E-06	+/-	2.0E-07
Delay rate (us/s)	-1.33829822512E+00	Apriori rate (us/s)	-1.33829818364E+00	Resid rate (us/s)	-4.14800E-08	+/-	5.7E-10
Total phase (deg)	-98.1	Apriori accel (us/s/s)	5.40792983713E-05	Resid phase (deg)	-78.1	+/-	6.1

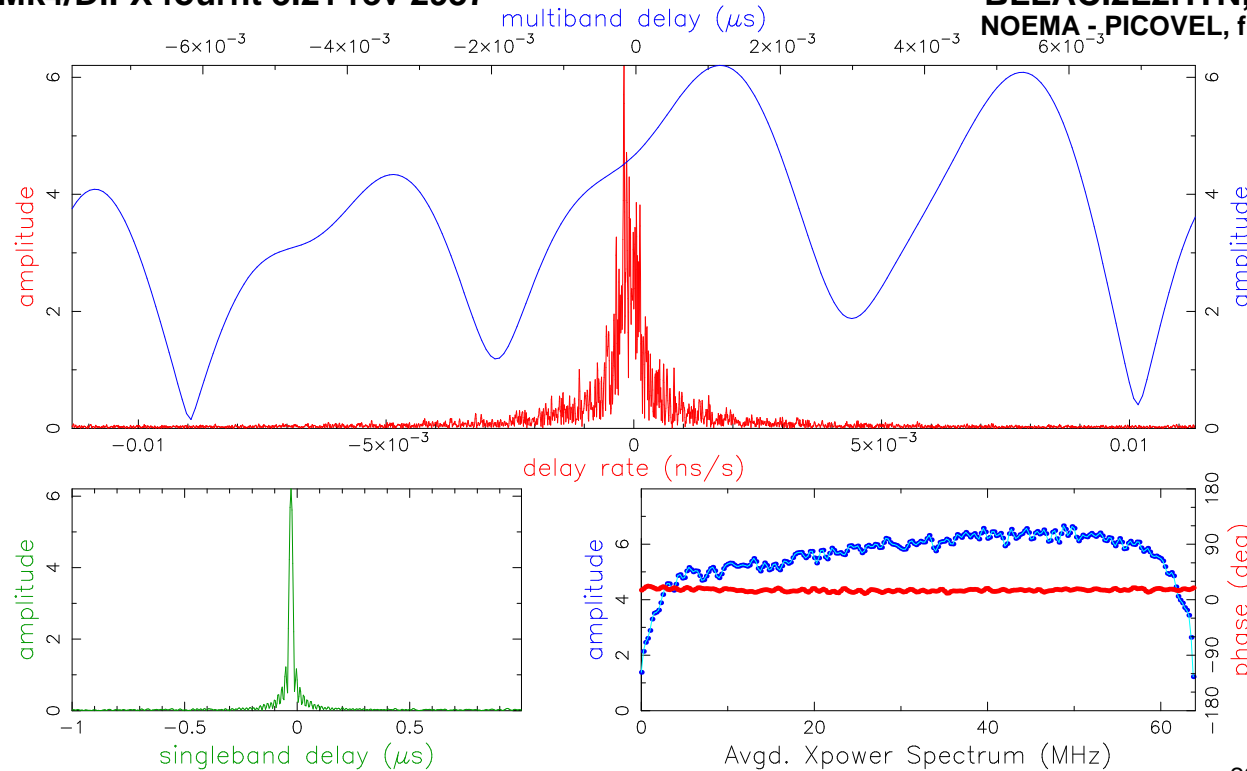
ph/seg (deg)	47.3	RMS	14.6	Theor.	14.6	Amplitude	0.282 +/- 0.015	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	47.6	Search (4096X32)	0.272	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	59.2	Inc. seg. avg.	0.371	Inc. frq. avg.	0.398	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	60.2	Inc. frq. avg.	0.398	Data rate (Mb/s):	2048	Sample rate (MSamp/s):	128	nlags: 256	dr window (ns/s)	-0.011	0.011
						Data rate (Mb/s):	2048	t_cohere infinite	ion window (TEC)	0.00	0.00

N: az 301.9 el 29.7 pa 55.6 o: az 68.0 el 61.7 pa -87.5 u,v (fr/asec) 10550.683 4290.953 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/No..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/No.W.94.2L2HTN

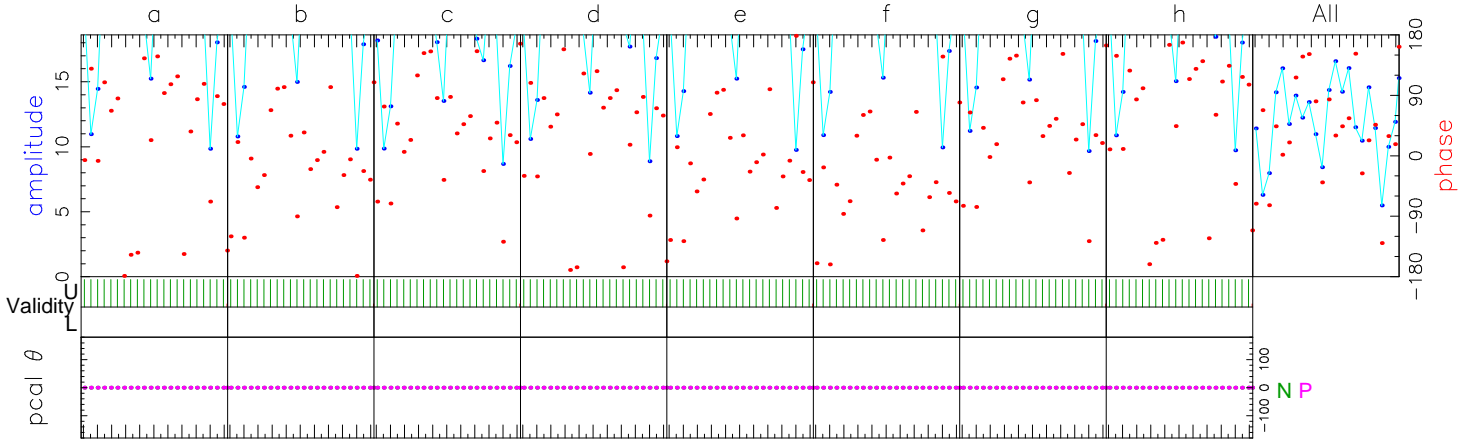
Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2L2HTN, No0100, NP
NOEMA - PICOVEL, fgroup W, pol LL



Fringe quality 1
SNR 415.6
Int time 599.992
Amp 6.205
Phase 45.5
PFD 0.0e+00
Delays (us)
SBD -0.027476
MBD 0.001166
Fringe rate (Hz)
-0.017184
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232023
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

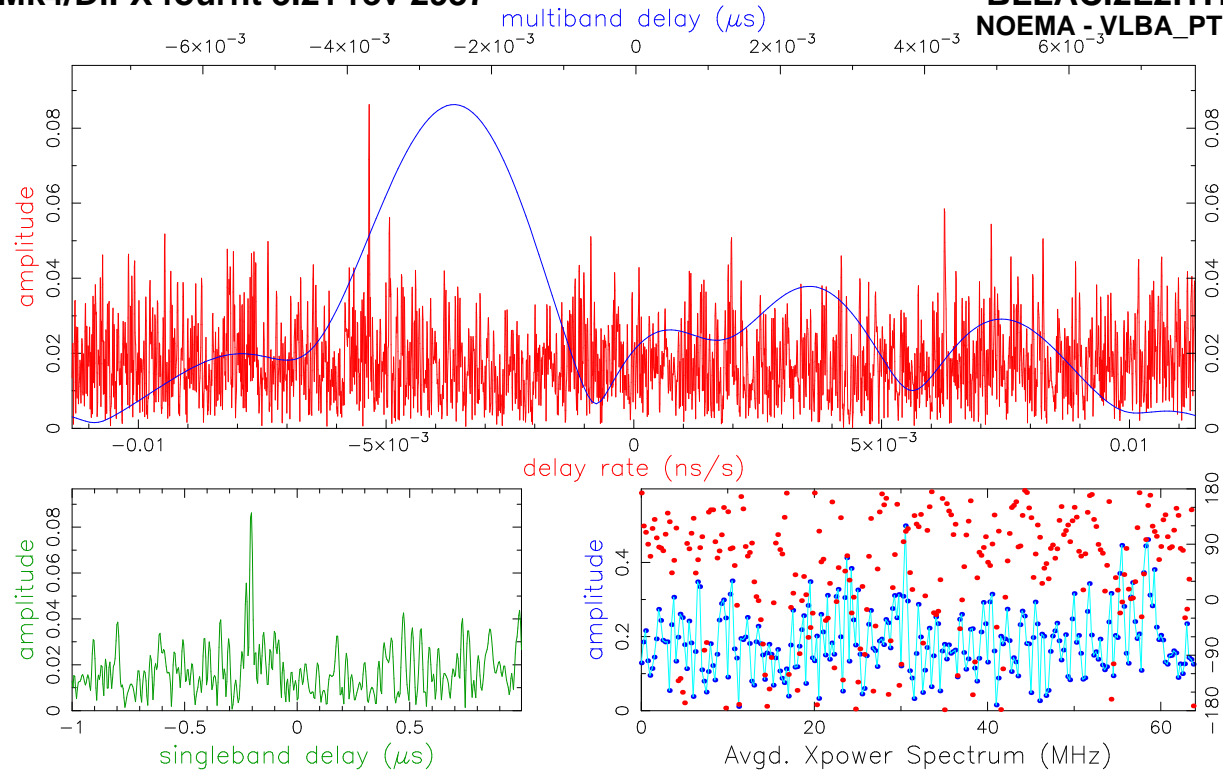
Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	108.1	-5.0	48.9	87.1	-8.6	-40.4	44.8	130.4	Phase	45.5
	11.2	11.1	10.0	10.5	11.0	11.0	11.3	11.1	Ampl.	10.9
	250.0	250.0	249.4	249.9	250.0	249.8	250.3	250.2	Sbd box	250.0
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
P	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:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.25354597666E+02		Apriori delay (usec)		-6.25324513339E+02		Resid mbdelay (usec)		1.16567E-03	+/- 2.6E-06
Sband delay (usec)	-6.25351989589E+02		Apriori clock (usec)		-1.2112591E+01		Resid sbdelay (usec)		-2.74762E-02	+/- 2.1E-05
Phase delay (usec)	-6.25324511871E+02		Apriori clockrate (us/s)		2.0990000E-07		Resid phdelay (usec)		1.46761E-06	+/- 8.9E-09
Delay rate (us/s)	8.51588130161E-02		Apriori rate (us/s)		8.51590125097E-02		Resid rate (us/s)		-1.99494E-07	+/- 2.6E-11
Total phase (deg)			Apriori accel (us/s/s)		1.08580914398E-05		Resid phase (deg)		45.5	+/- 0.3

	RMS	Theor.	Amplitude	6.205 +/- 0.015	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	73.1	0.7	Search (4096X32)	6.048	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	104.8	1.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	65.5	0.4	Inc. seg. avg.	11.985	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	76.0	0.7	Inc. frq. avg.	10.903	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

N: az 301.9 el 29.7 pa 55.6 P: az 301.8 el 31.7 pa 67.4 u,v (fr/asec) -623.557 1445.967 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/NP..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/NP.W.17.2L2HTN

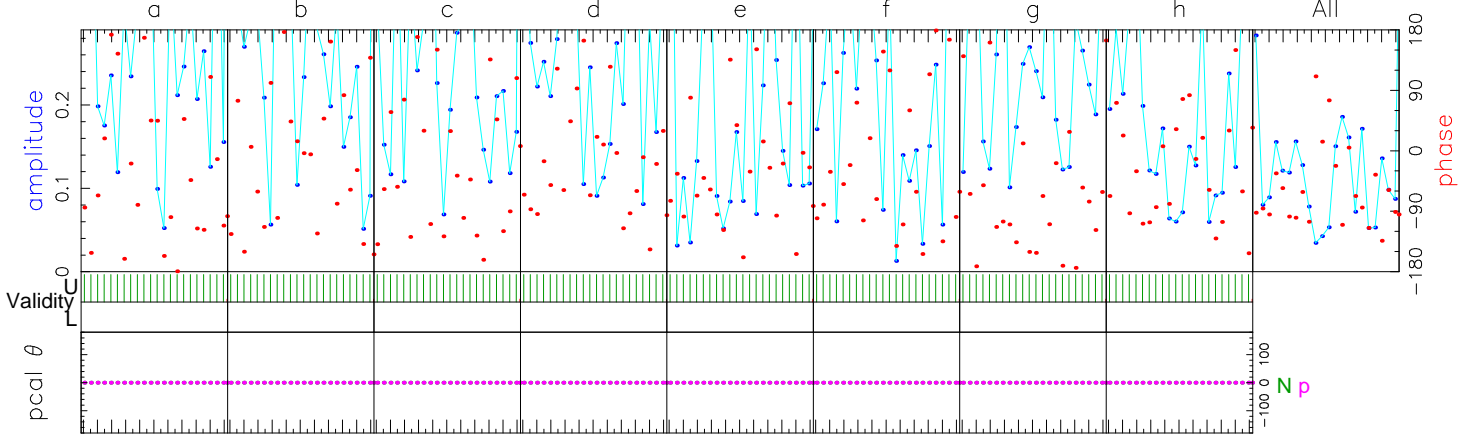


Fringe quality 0

SNR 5.9
Int time 599.795
Amp 0.097
Phase -75.4
PFD 8.4e-01
Delays (us)
SBD -0.204725
MBD -0.002550
Fringe rate (Hz)
-0.460898
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

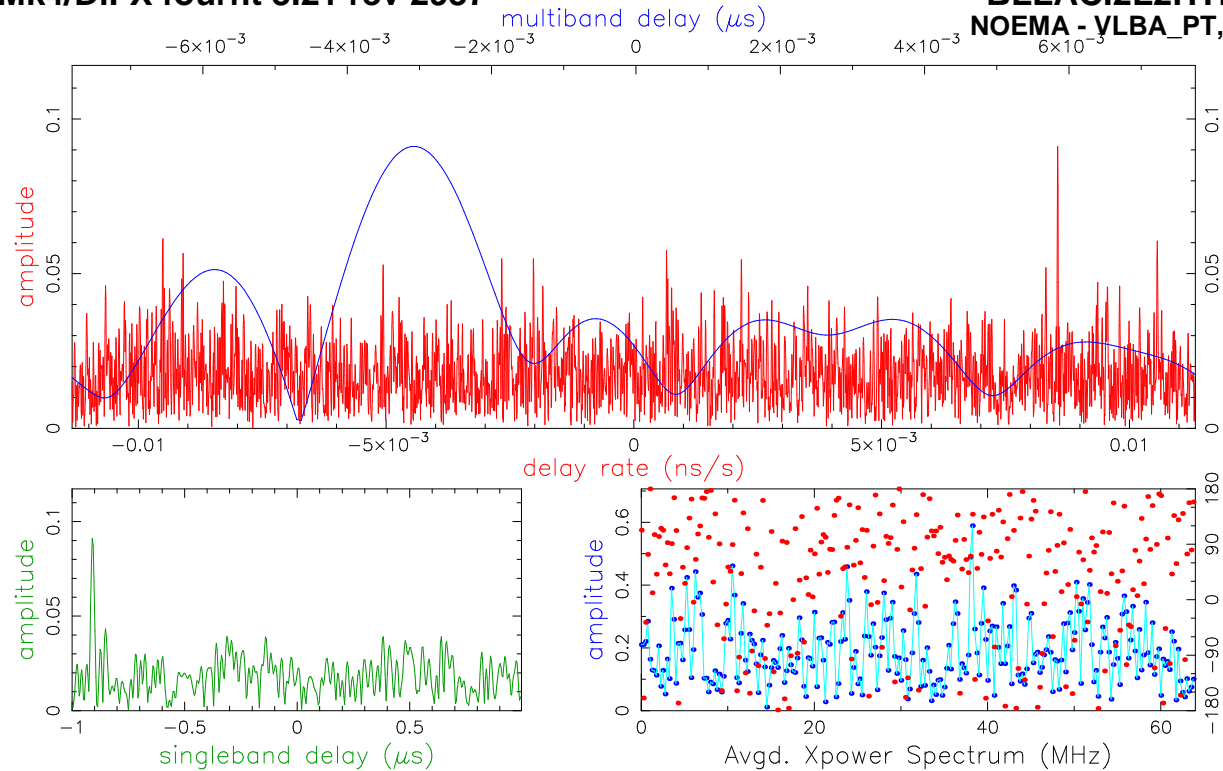
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232154
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



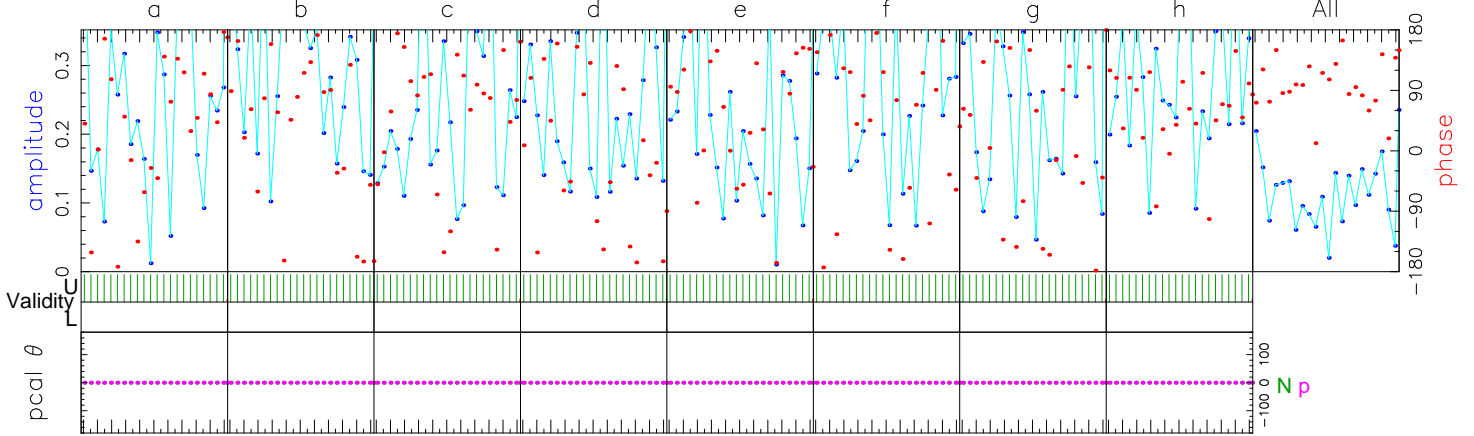
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-95.4	-67.8	-91.8	-51.2	-57.0	-80.3	-107.6	-38.1	Phase	-75.4
	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	Ampl.	0.1
	356.3	355.9	227.4	357.3	232.1	221.7	205.5	303.1	Sbd box	204.6
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
p	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:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-9.70016076266E+03		Apriori delay (usec)		-9.69995508812E+03		Resid mbdelay (usec)		-2.54954E-03	+/- 1.8E-04
Sband delay (usec)	-9.70015981262E+03		Apriori clock (usec)		7.3590097E+08		Resid sbdelay (usec)		-2.04725E-01	+/- 1.5E-03
Phase delay (usec)	-9.69995509055E+03		Apriori clockrate (us/s)		-3.3799999E-08		Resid phdelay (usec)		-2.43040E-06	+/- 6.3E-07
Delay rate (us/s)	-1.21211771879E+00		Apriori rate (us/s)		-1.21211236822E+00		Resid rate (us/s)		-5.35057E-06	+/- 1.8E-09
Total phase (deg)			Apriori accel (us/s/s)		6.22004765021E-05		Resid phase (deg)		-75.4	+/- 19.4

ph/seg (deg) 61.5 46.6 Search (4096X32) 0.083 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.8 81.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 26.1 27.5 Inc. seg. avg. 0.095 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 38.6 47.9 Inc. frq. avg. 0.093 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 301.9 el 29.7 pa 55.6 p: az 60.7 el 67.9 pa -103.9 u,v (fr/asec) 9599.634 5164.814 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/Np..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/Np.W.221.2L2HTN



Fringe quality 0
SNR 6.1
Int time 599.795
Amp 0.117
Phase 98.4
PFD 3.6e-01
Delays (us)
SBD -0.909179
MBD -0.003048
Fringe rate (Hz) 0.738023
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232200
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0		
N	0	0	0	0	0	0	0	0	APs used	
p	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: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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-9.70086438589E+03								Resid mbdelay (usec)	-3.04777E-03 +/- 1.8E-04
Sband delay (usec)	-9.70086426712E+03								Resid sbdelay (usec)	-9.09179E-01 +/- 1.4E-03
Phase delay (usec)	-9.69995508495E+03								Resid phdelay (usec)	3.17175E-06 +/- 6.0E-07
Delay rate (us/s)	-1.21210380050E+00								Resid rate (us/s)	8.56772E-06 +/- 1.7E-09
Total phase (deg)		-6.2							Resid phase (deg)	98.4 +/- 18.7

ph/seg (deg) 37.8 44.8
amp/seg (%) 52.8 78.1
ph/frq (deg) 28.8 26.4
amp/frq (%) 54.9 46.1

RMS Theor. Amplitude 0.117 +/- 0.019
Search (4096X32) 0.088
Interp. 0.000
Inc. seg. avg. 0.108
Inc. frq. avg. 0.113

Group delay (usec)(sbd) -9.70086438589E+03
Sband delay (usec) -9.70086426712E+03
Phase delay (usec) -9.69995508495E+03
Delay rate (us/s) -1.21210380050E+00
Total phase (deg) -6.2

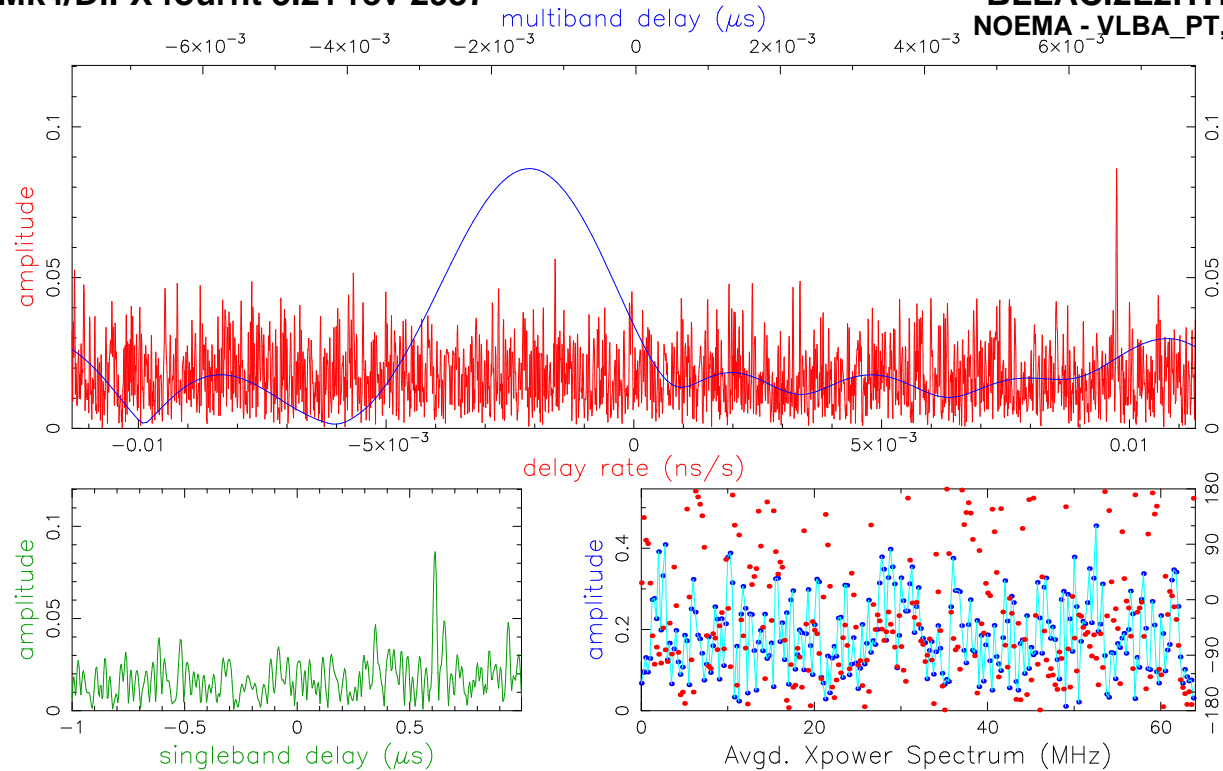
Apriori delay (usec) -9.69995508812E+03
Apriori clock (usec) 7.3590097E+08
Apriori clockrate (us/s) -3.3799999E-08
Apriori rate (us/s) -1.21211236822E+00
Apriori accel (us/s/s) 6.22004765021E-05

Resid mbdelay (usec) -3.04777E-03
Resid sbdelay (usec) -9.09179E-01
Resid phdelay (usec) 3.17175E-06
Resid rate (us/s) 8.56772E-06
Resid phase (deg) 98.4

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MISamp/s): 128
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite

sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

N: az 301.9 el 29.7 pa 55.6 p: az 60.7 el 67.9 pa -103.9 u,v (fr/asec) 9599.634 5164.814 simultaneous interpolator

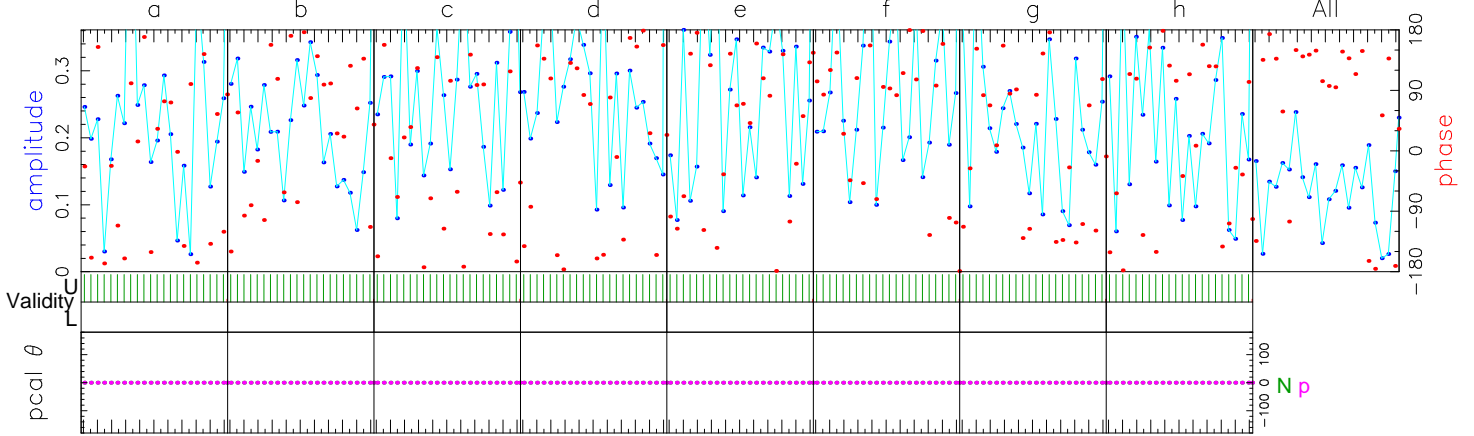


Fringe quality 0

SNR 5.8
Int time 599.795
Amp 0.120
Phase 150.3
PFD 9.5e-01
Delays (us)
SBD 0.612072
MBD -0.001494
Fringe rate (Hz)
0.840646
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

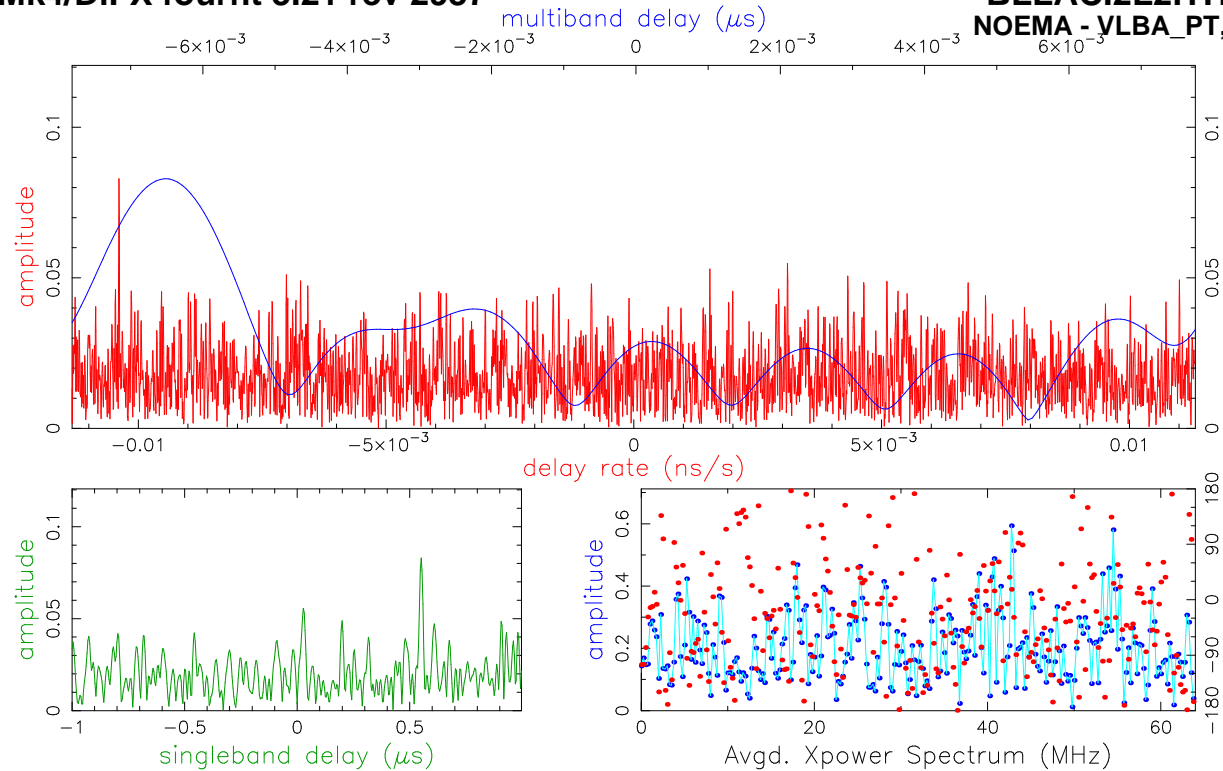
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232207
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	147.8	150.7	164.3	148.6	156.6	128.0	157.5	163.0	Phase	150.3
N	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.2	Ampl.	0.1
p	36.0	466.2	496.1	296.8	182.5	130.1	360.8	341.1	Sbd box	413.7
N	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	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	Mani PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
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)	-9.69934720699E+03		Apriori delay (usec)		-9.69995508812E+03		Resid mbdelay (usec)		-1.49387E-03	+/- 1.9E-04
Sband delay (usec)	-9.69934301612E+03		Apriori clock (usec)		7.3590097E+08		Resid sbdelay (usec)		6.12072E-01	+/- 1.5E-03
Phase delay (usec)	-9.69995508327E+03		Apriori clockrate (us/s)		-3.3799999E-08		Resid phdelay (usec)		4.84560E-06	+/- 6.3E-07
Delay rate (us/s)	-1.21210260916E+00		Apriori rate (us/s)		-1.21211236822E+00		Resid rate (us/s)		9.75906E-06	+/- 1.8E-09
Total phase (deg)			Apriori accel (us/s/s)		6.22004765021E-05		Resid phase (deg)		150.3	+/- 19.7

ph/seg (deg) 48.4 47.2 Search (4096X32) 0.086 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 75.5 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) 12.6 27.8 Inc. seg. avg. 0.127 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.7 48.6 Inc. frq. avg. 0.109 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 301.9 el 29.7 pa 55.6 p: az 60.7 el 67.9 pa -103.9 u,v (fr/asec) 9599.634 5164.814 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/Np..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/Np.W.266.2L2HTN

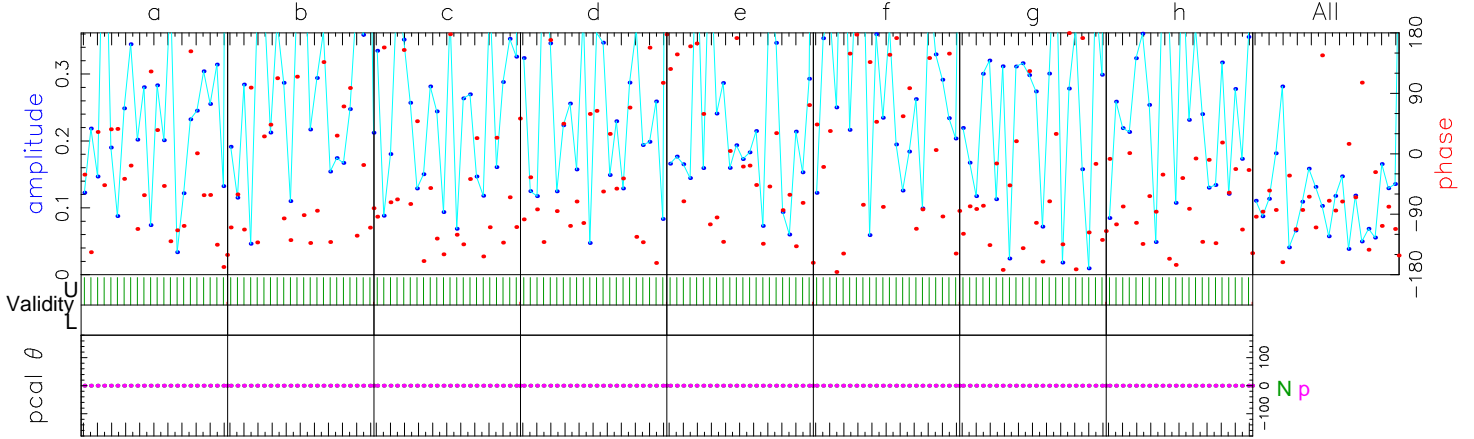


Fringe quality 0

SNR 5.6
Int time 599.795
Amp 0.121
Phase -96.0
PFD 1.0e+00
Delays (us)
SBD 0.550787
MBD -0.006516
Fringe rate (Hz)
-0.896488
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232213
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

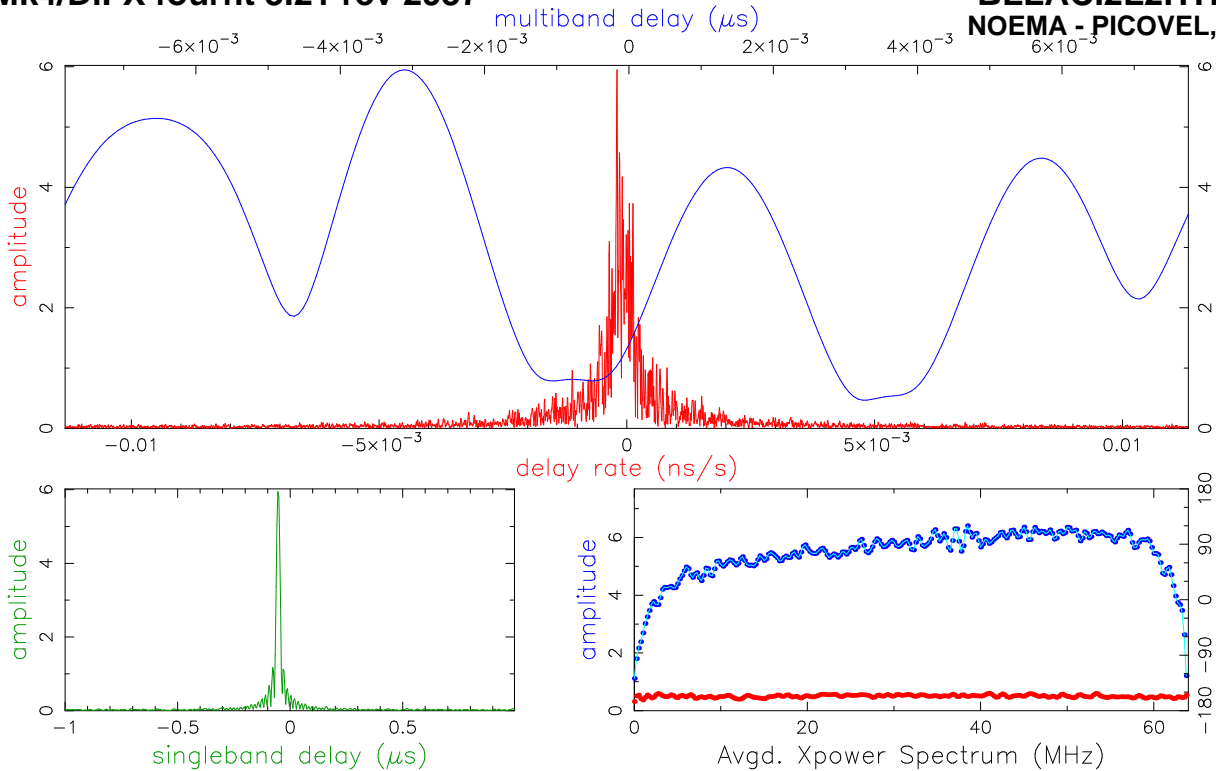


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-62.2	-114.2	-102.8	-107.5	-99.8	-164.2	-113.1	-64.9	Phase	-96.0
	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
	379.5	160.6	2.6	234.9	233.4	264.3	258.5	397.9	Sbd box	398.0
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
p	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: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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	

Group delay (usec)(sbd) -9.69939910438E+03 Apriori delay (usec) -9.69995508812E+03 Resid mbdelay (usec) -6.51626E-03 +/- 2.0E-04
 Sband delay (usec) -9.69940430137E+03 Apriori clock (usec) 7.3590097E+08 Resid sbdelay (usec) 5.50787E-01 +/- 1.6E-03
 Phase delay (usec) -9.69995509121E+03 Apriori clockrate (us/s) -3.3799999E-08 Resid phdelay (usec) -3.09501E-06 +/- 6.7E-07
 Delay rate (us/s) -1.21212277556E+00 Apriori rate (us/s) -1.21211236822E+00 Resid rate (us/s) -1.04073E-05 +/- 1.9E-09
 Total phase (deg) -200.6 Apriori accel (us/s/s) 6.22004765021E-05 Resid phase (deg) -96.0 +/- 20.6

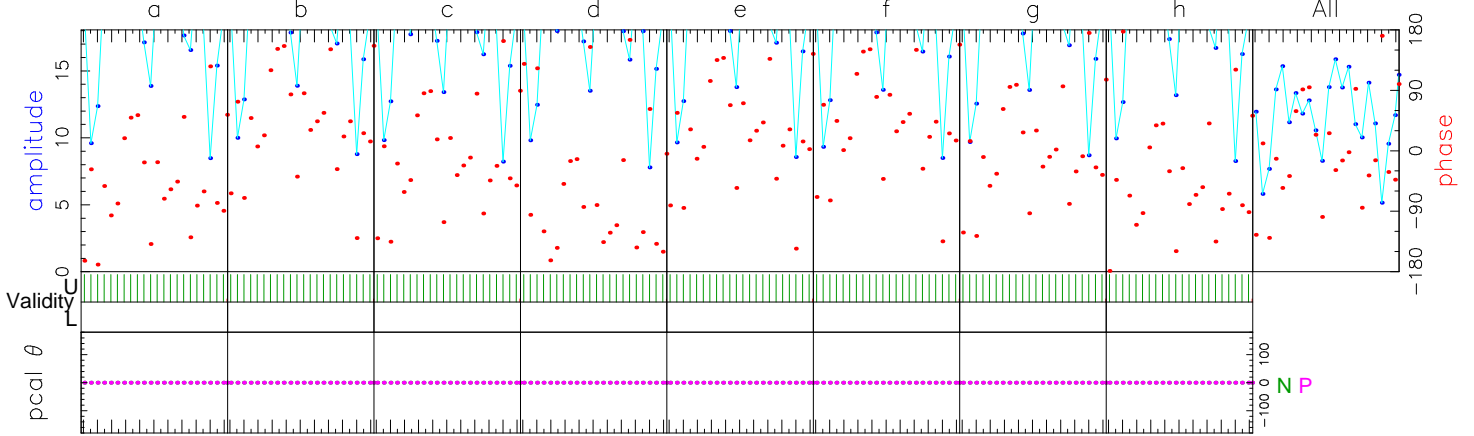
RMS Theor. Amplitude 0.121 +/- 0.022 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 57.6 49.5 Search (4096X32) 0.082 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 81.8 86.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 35.6 29.2 Inc. seg. avg. 0.121 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 41.1 50.9 Inc. frq. avg. 0.121 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

N: az 301.9 el 29.7 pa 55.6 p: az 60.7 el 67.9 pa -103.9 u,v (fr/asec) 9599.634 5164.814 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/Np..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/Np.W.279.2L2HTN



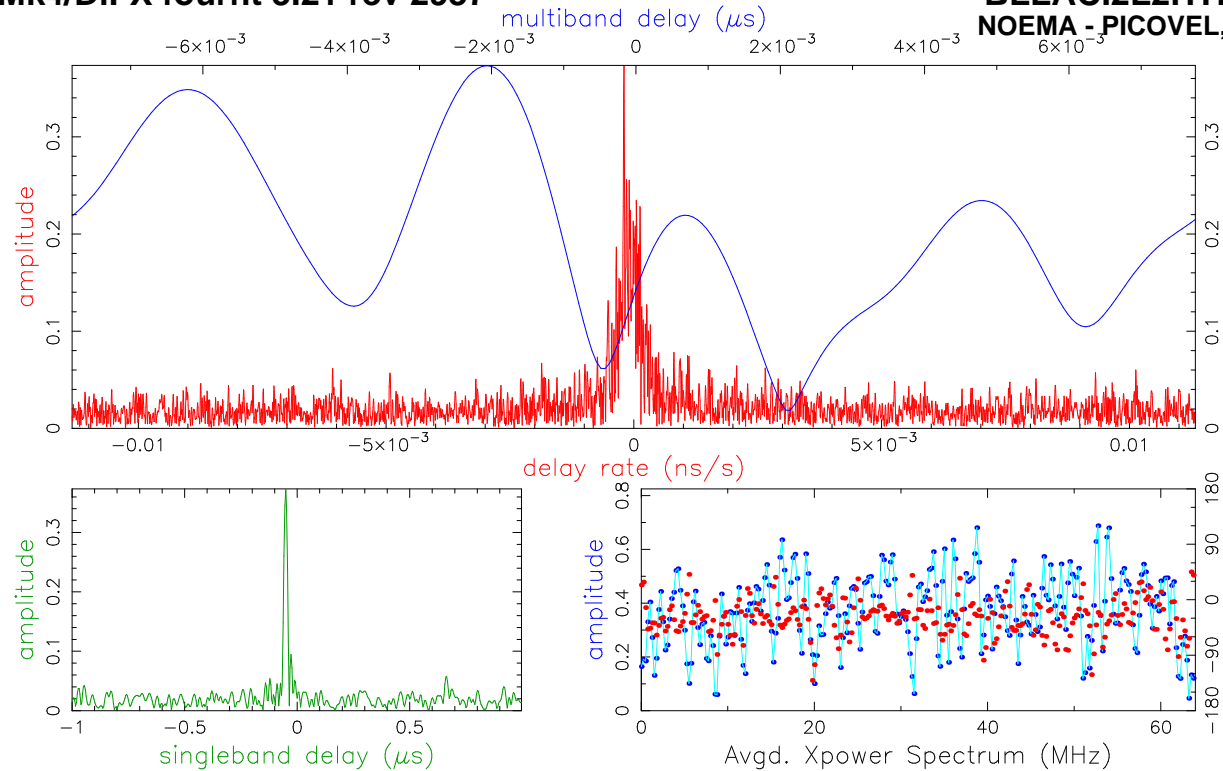
Fringe quality 1
SNR 403.4
Int time 599.992
Amp 6.023
Phase -13.6
PFD 0.0e+00
Delays (us)
SBD -0.053270
MBD -0.003105
Fringe rate (Hz)
-0.017138
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232029
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-57.0	45.7	-21.1	-121.1	30.7	43.8	-8.5	-65.3	Phase	-13.6
	9.7	9.9	9.6	9.5	10.1	10.0	10.1	10.0	Ampl.	9.9
	243.4	243.3	243.0	243.3	243.6	243.1	243.6	243.6	Sbd box	243.4
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
P	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: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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.25374493291E+02		Apriori delay (usec)		-6.25324513339E+02		Resid mbdelay (usec)		-3.10495E-03	+/- 2.7E-06
Sband delay (usec)	-6.25377783339E+02		Apriori clock (usec)		-1.2112591E+01		Resid sbdelay (usec)		-5.32700E-02	+/- 2.1E-05
Phase delay (usec)	-6.25324513779E+02		Apriori clockrate (us/s)		2.0990000E-07		Resid phdelay (usec)		-4.39656E-07	+/- 9.2E-09
Delay rate (us/s)	8.51588135528E-02		Apriori rate (us/s)		8.51590125097E-02		Resid rate (us/s)		-1.98957E-07	+/- 2.6E-11
Total phase (deg)			Apriori accel (us/s/s)		1.08580914398E-05		Resid phase (deg)		-13.6	+/- 0.3

ph/seg (deg) RMS Theor. Amplitude 6.023 +/- 0.015 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 72.8 0.7 Search (4096X32) 5.868 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 103.4 1.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 64.5 0.4 Inc. seg. avg. 11.551 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
amp/frq (%) 63.8 0.7 Inc. frq. avg. 9.859 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
N: az 301.9 el 29.7 pa 55.6 P: az 301.8 el 31.7 pa 67.4 u,v (fr/asec) -623.557 1445.967 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/NP..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/NP.W.39.2L2HTN

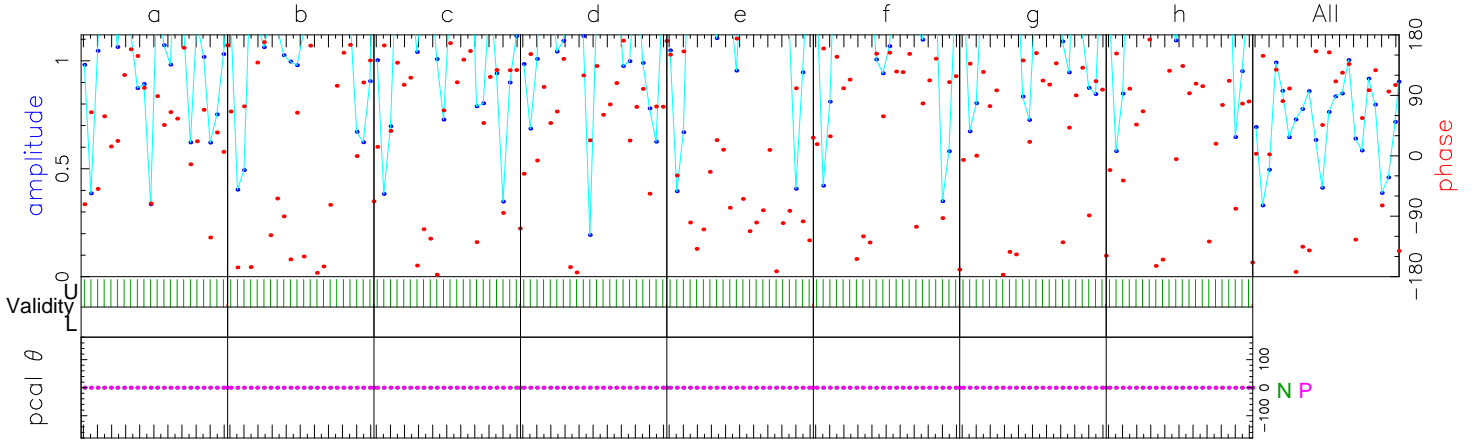


Fringe quality 5

SNR 25.0
Int time 599.992
Amp 0.374
Phase 126.8
PFD 0.0e+00
Delays (us)
SBD -0.051122
MBD -0.002062
Fringe rate (Hz)
-0.017179
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232034
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

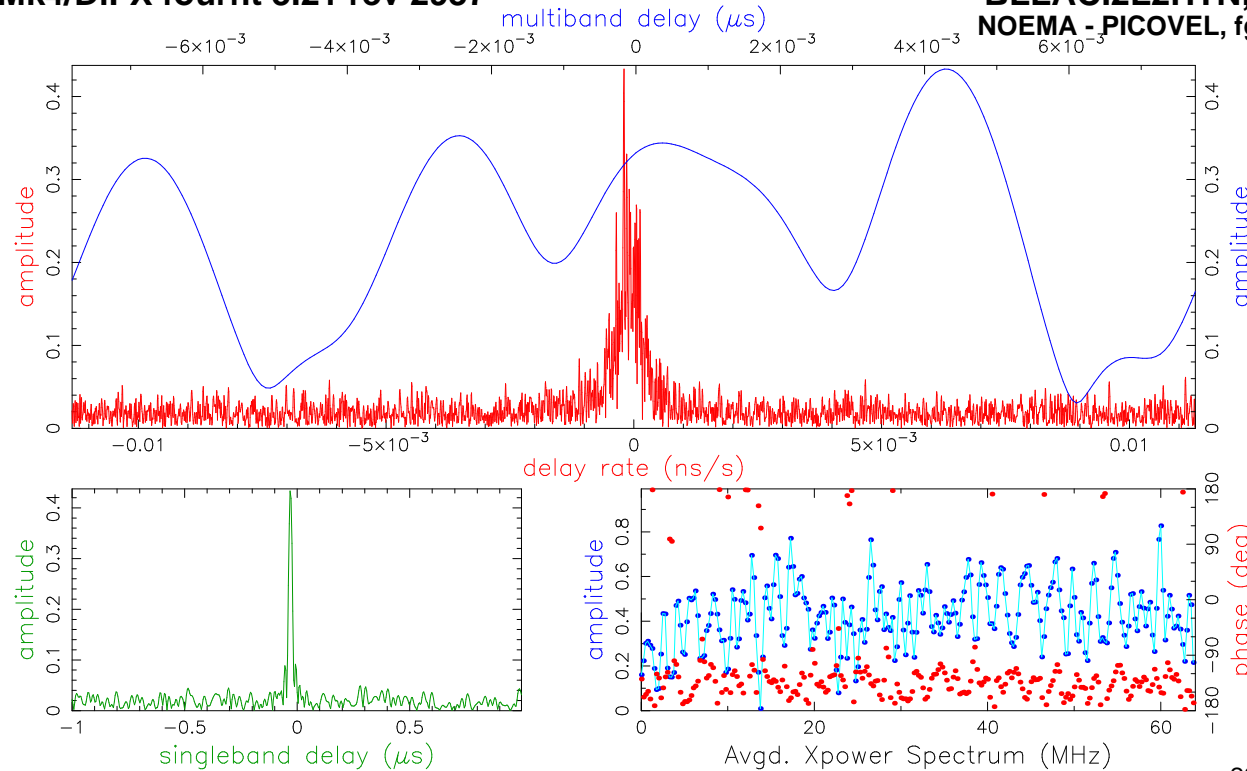


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0		
N	0	0	0	0	0	0	0	0		
P	0	0	0	0	0	0	0	0		
N:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
N:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
N	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-6.25373450354E+02									
Sband delay (usec)	-6.25375635089E+02									
Phase delay (usec)	-6.25324509249E+02									
Delay rate (us/s)	8.51588130830E-02									
Total phase (deg)			-81.6							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 70.4 11.0 Search (4096X32) 0.371 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 101.0 19.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 69.0 6.5 Inc. seg. avg. 0.688 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 67.0 11.3 Inc. frq. avg. 0.612 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 N: az 301.9 el 29.7 pa 55.6 P: az 301.8 el 31.7 pa 67.4 u,v (fr/asec) -623.557 1445.967 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/NP..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/NP.W.64.2L2HTN simultaneous interpolator

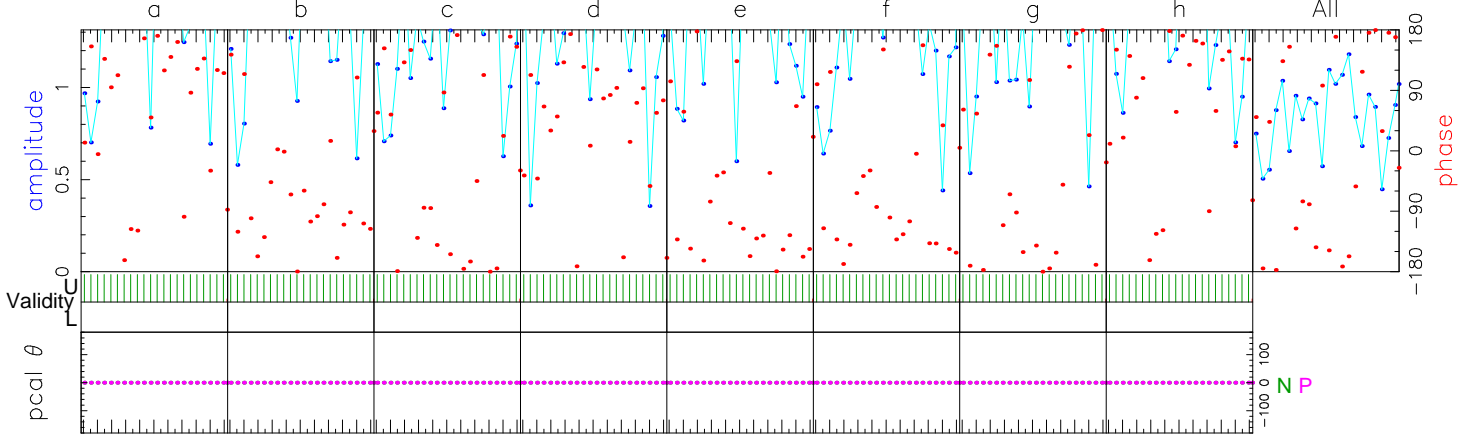
Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2L2HTN, No0100, NP
NOEMA - PICOVEL, fgroup W, pol RL



Fringe quality 3
SNR 29.3
Int time 599.992
Amp 0.438
Phase -172.5
PFD 0.0e+00
Delays (us)
SBD -0.029978
MBD 0.004309
Fringe rate (Hz)
-0.017311
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232040
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

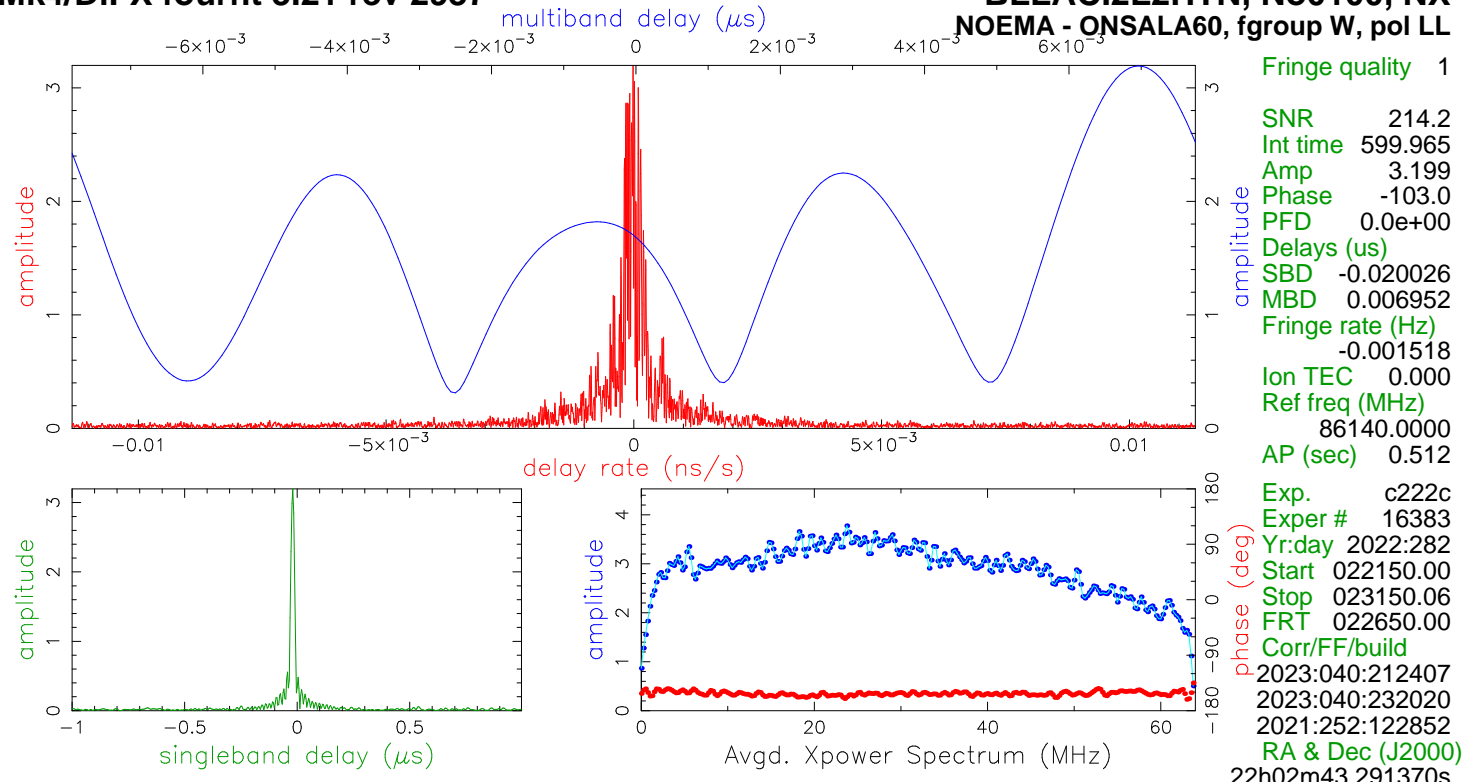


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0		
N	0	0	0	0	0	0	0	0		
P	0	0	0	0	0	0	0	0		
N:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
N:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
N	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-6.25351453948E+02	Apriori delay (usec)	-6.25324513339E+02	Resid mbdelay (usec)	4.30939E-03	+/-	3.7E-05
Sband delay (usec)	-6.25354490839E+02	Apriori clock (usec)	-1.2112591E+01	Resid sbdelay (usec)	-2.99775E-02	+/-	2.9E-04
Phase delay (usec)	-6.25324518903E+02	Apriori clockrate (us/s)	2.0990000E-07	Resid phdelay (usec)	-5.56366E-06	+/-	1.3E-07
Delay rate (us/s)	8.51588115426E-02	Apriori rate (us/s)	8.51590125097E-02	Resid rate (us/s)	-2.00967E-07	+/-	3.6E-10
Total phase (deg)	-21.0	Apriori accel (us/s/s)	1.08580914398E-05	Resid phase (deg)	-172.5	+/-	3.9

ph/seg (deg)	74.4	RMS	74.4	Theor.	9.4	Amplitude	0.438 +/- 0.015	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	101.9		101.9		16.4	Search (4096X32)	0.427	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.008	0.008
ph/frq (deg)	65.4		65.4		5.5	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	66.7		66.7		9.7	Inc. seg. avg.	0.826	Sample rate (MSamp/s):	128			ion window (TEC)	0.00	0.00
						Inc. frq. avg.	0.722	Data rate (Mb/s):	2048	nlags:	256	t_cohere	infinite	

N: az 301.9 el 29.7 pa 55.6 P: az 301.8 el 31.7 pa 67.4 u,v (fr/asec) -623.557 1445.967 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/NP..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/NP.W.84.2L2HTN



Fringe quality 1

SNR 214.2

Int time 599.965

Ampl 3.199

Phase -103.0

PFD 0.0e+00

Delays (us)

SBD -0.020026

MBD 0.006952

Fringe rate (Hz)

-0.001518

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c222c

Exper # 16383

Yr:day 2022:282

Start 022150.00

Stop 023150.06

FRT 022650.00

Corr/FF/build

2023:040:212407

2023:040:232020

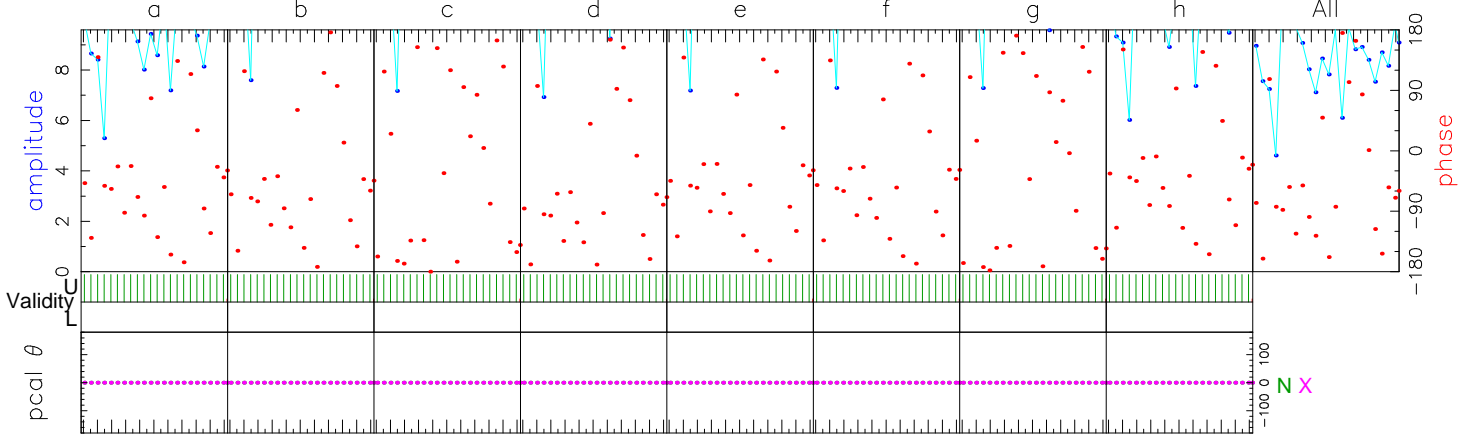
2021:252:122852

RA & Dec (J2000)

22h02m43.291370s

+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-72.7	-91.0	175.7	-112.7	-70.6	-75.7	166.9	-58.6	Phase	-103.0
	3.7	5.3	5.0	4.7	5.1	5.2	5.1	4.0	Ampl.	4.8
	253.8	252.1	251.9	251.4	251.6	251.7	251.9	252.6	Sbd box	251.9
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.17654121744E+03	Apriori delay (usec)	-1.17651691990E+03	Resid mbdelay (usec)	6.95246E-03	+/-	5.1E-06
Sband delay (usec)	-1.17653694640E+03	Apriori clock (usec)	-9.5511887E+01	Resid sbdelay (usec)	-2.00265E-02	+/-	4.0E-05
Phase delay (usec)	-1.17651692322E+03	Apriori clockrate (us/s)	-5.9420004E-07	Resid phdelay (usec)	-3.32104E-06	+/-	1.7E-08
Delay rate (us/s)	-2.00893486342E-01	Apriori rate (us/s)	-2.00893468725E-01	Resid rate (us/s)	-1.76172E-08	+/-	5.0E-11
Total phase (deg)	-275.7	Apriori accel (us/s/s)	-4.88838187838E-06	Resid phase (deg)	-103.0	+/-	0.5

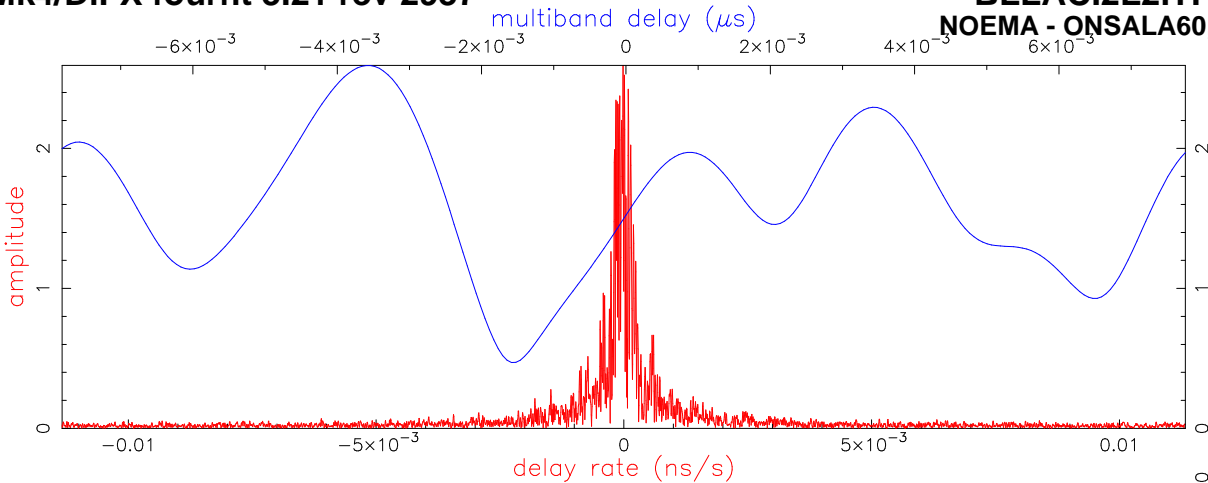
ph/seg (deg)	81.4	1.3	Search (4096X32)	3.153	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	169.1	2.2	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	57.2	0.8	Inc. seg. avg.	8.426	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	52.2	1.3	Inc. frq. avg.	4.769	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
					Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

N: az 301.9 el 29.7 pa 55.6 X: az 298.7 el 32.8 pa 39.4 u,v (fr/asec) 1539.745 -1299.033 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/NX..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/NX.W.12.2L2HTN

Mk4/DiFX fourfit 3.21 rev 2937

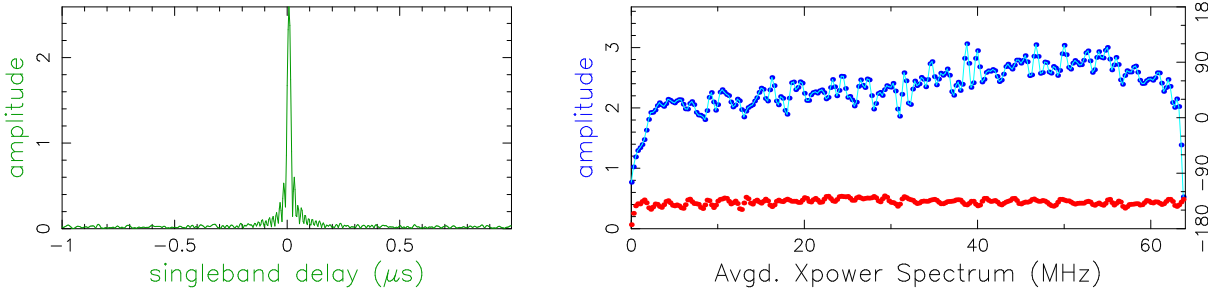
BLLAC.2L2HTN, No0100, NX
NOEMA - ONSALA60, fgroup W, pol RR



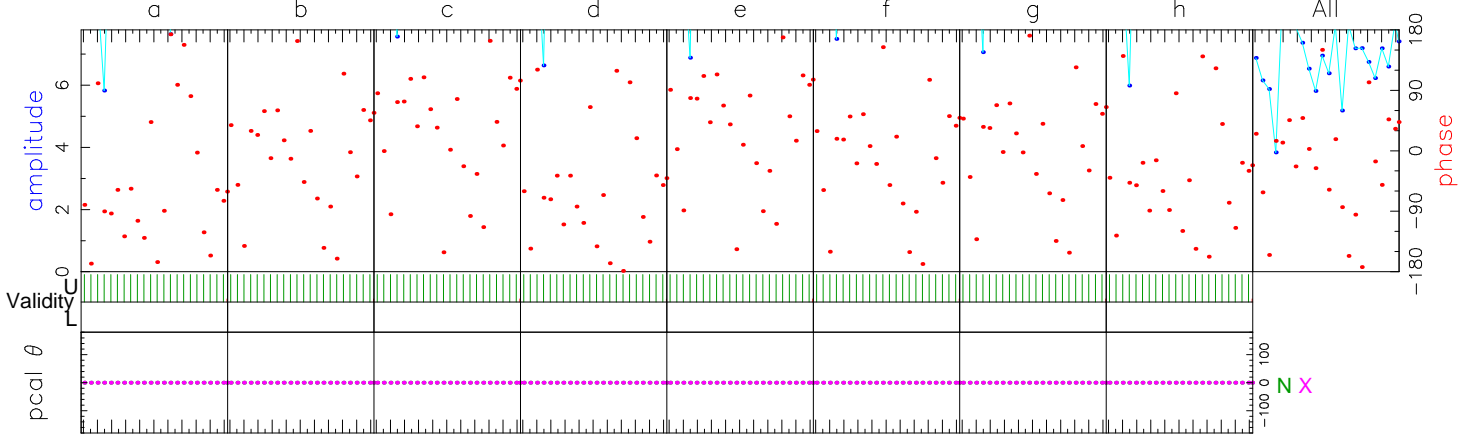
Fringe quality 1

SNR 173.7
Int time 599.965
Amp 2.594
Phase -3.0
PFD 0.0e+00
Delays (us)
SBD 0.008023
MBD -0.003571
Fringe rate (Hz)
-0.001531
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232025
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

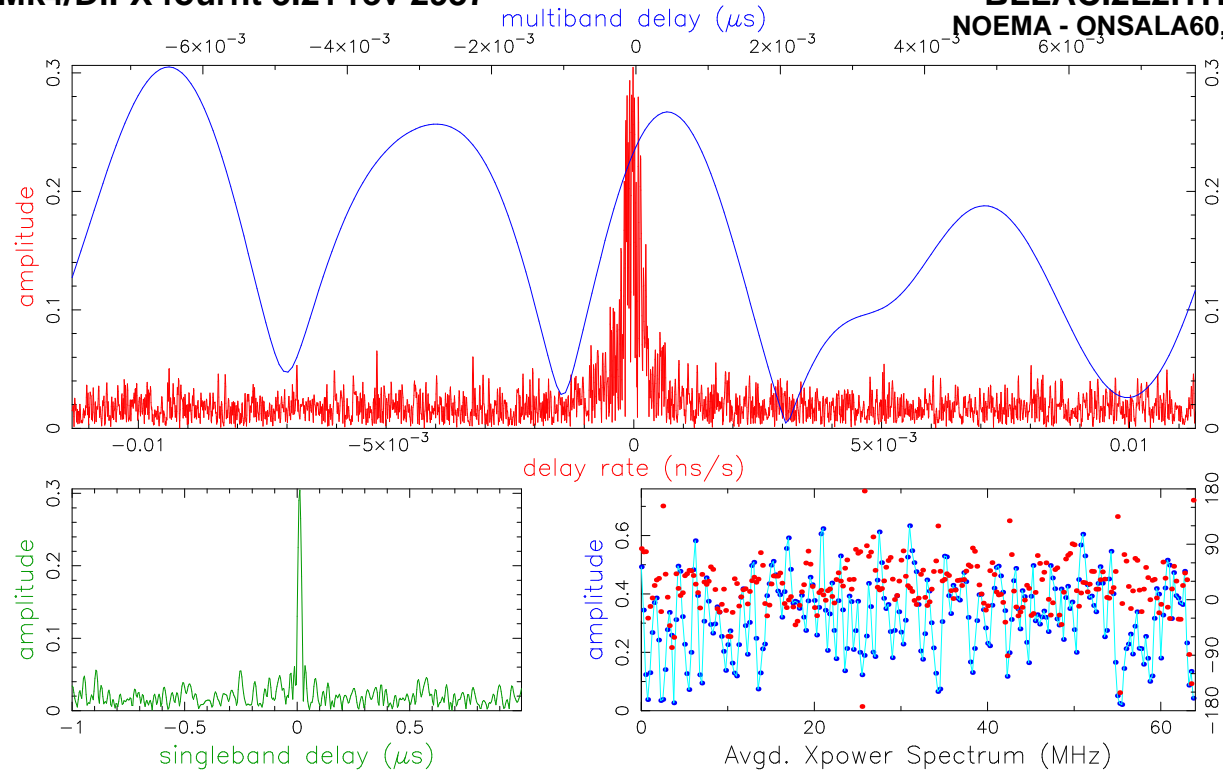


Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-108.4	9.9	57.4	-86.3	62.6	1.6	19.3	-65.8	Phase	-3.0
	3.8	5.3	5.1	4.7	4.6	5.2	4.9	4.2	Ampl.	4.7
	260.2	259.0	258.6	258.2	258.0	258.6	258.8	259.7	Sbd box	259.1
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.17650486622E+03		Apriori delay (usec)	-1.17651691990E+03	Resid mbdelay (usec)	-3.57132E-03	+/-	6.2E-06		
Sband delay (usec)	-1.17650889690E+03		Apriori clock (usec)	-9.5511887E+01	Resid sbdelay (usec)	8.02300E-03	+/-	5.0E-05		
Phase delay (usec)	-1.17651691999E+03		Apriori clockrate (us/s)	-5.9420004E-07	Resid phdelay (usec)	-9.66190E-08	+/-	2.1E-08		
Delay rate (us/s)	-2.00893486501E-01		Apriori rate (us/s)	-2.00893468725E-01	Resid rate (us/s)	-1.77759E-08	+/-	6.1E-11		
Total phase (deg)		-175.7	Apriori accel (us/s/s)	-4.88838187838E-06	Resid phase (deg)	-3.0	+/-	0.7		

RMS Theor. Amplitude 2.594 +/- 0.015
 ph/seg (deg) 81.2 1.6 Search (4096X32) 2.552 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 170.1 2.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 71.4 0.9 Inc. seg. avg. 6.864 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 84.4 1.6 Inc. frq. avg. 4.728 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 301.9 el 29.7 pa 55.6 X: az 298.7 el 32.8 pa 39.4 u,v (fr/asec) 1539.745 -1299.033 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/NX..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/NX.W.26.2L2HTN

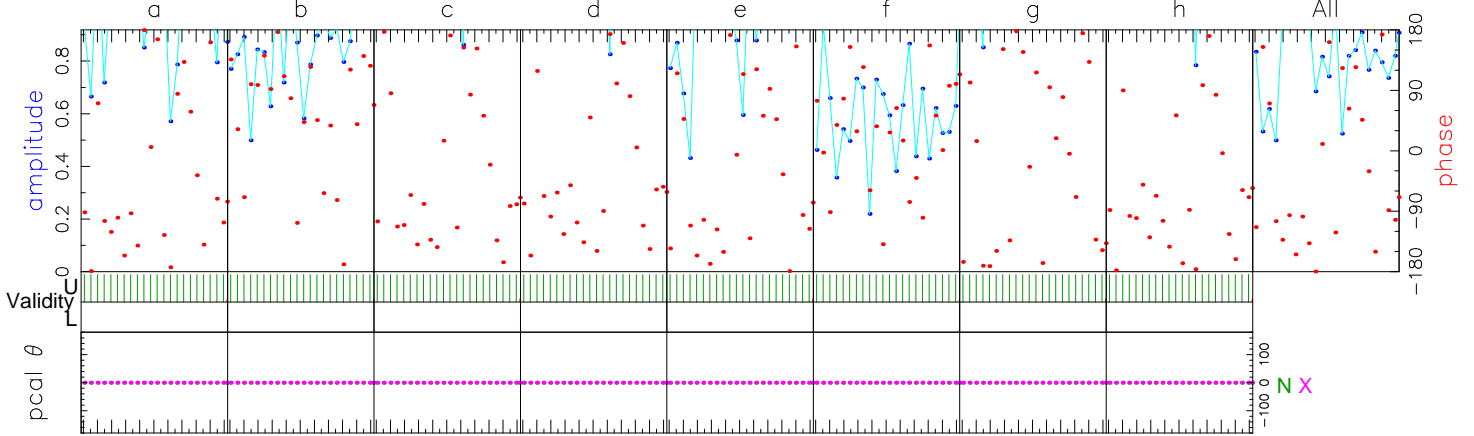


Fringe quality 7

SNR 20.5
Int time 599.965
Amp 0.306
Phase -138.9
PFD 0.0e+00
Delays (us)
SBD 0.010787
MBD -0.006516
Fringe rate (Hz)
-0.001540
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232031
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec

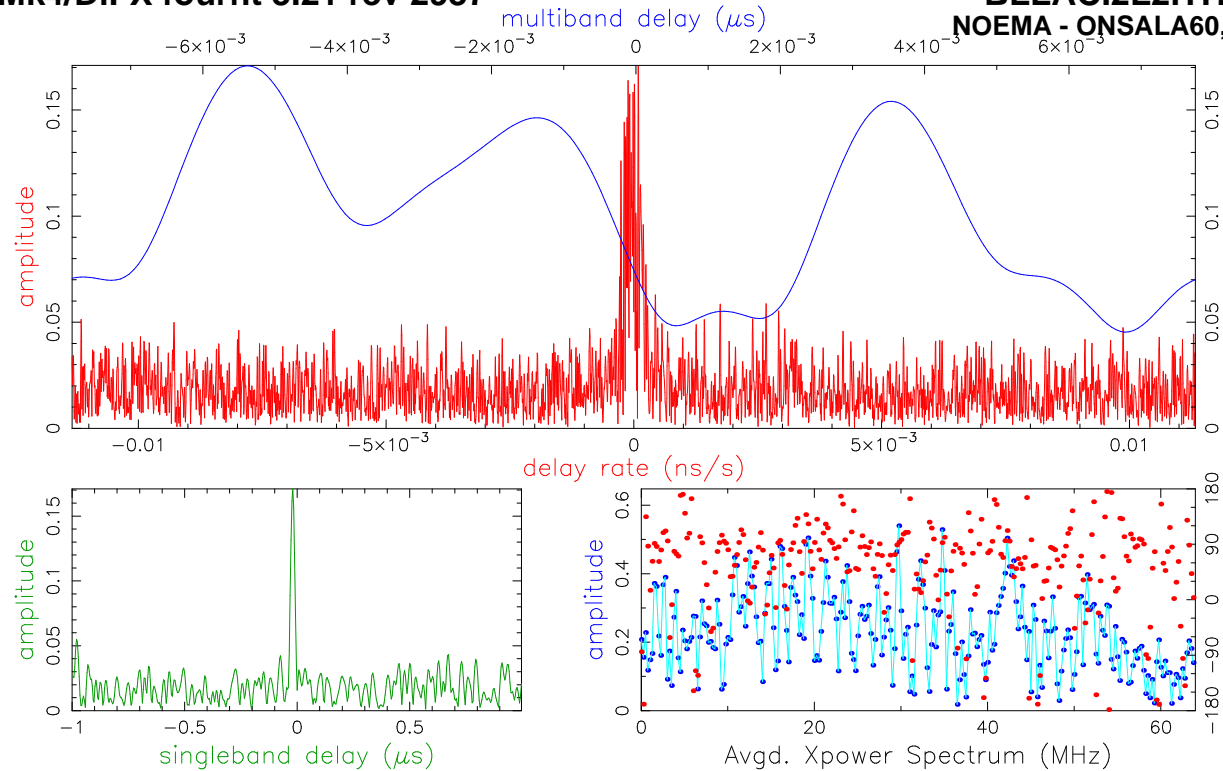


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-138.1	102.5	-130.1	-100.5	-158.3	33.9	172.6	-110.6	Phase	-138.9
	0.4	0.3	0.6	0.7	0.3	0.2	0.6	0.6	Ampl.	0.5
	260.5	259.2	259.4	259.3	258.8	258.6	260.0	261.0	Sbd box	259.8
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.17650781041E+03		Apriori delay (usec)		-1.17651691990E+03		Resid mbdelay (usec)		-6.51551E-03	+/- 5.3E-05
Sband delay (usec)	-1.17650613290E+03		Apriori clock (usec)		-9.5511887E+01		Resid sbdelay (usec)		1.07870E-02	+/- 4.2E-04
Phase delay (usec)	-1.17651692438E+03		Apriori clockrate (us/s)		-5.9420004E-07		Resid phdelay (usec)		-4.48028E-06	+/- 1.8E-07
Delay rate (us/s)	-2.00893486601E-01		Apriori rate (us/s)		-2.00893468725E-01		Resid rate (us/s)		-1.78762E-08	+/- 5.2E-10
Total phase (deg)	-311.7		Apriori accel (us/s/s)		-4.88838187838E-06		Resid phase (deg)		-138.9	+/- 5.6

	RMS	Theor.	Amplitude	0.306 +/- 0.015	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	83.4	13.4	Search (4096X32)	0.300	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	169.0	23.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	90.4	7.9	Inc. seg. avg.	0.780	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	74.8	13.8	Inc. frq. avg.	0.463	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
					nlags: 256	t_cohere infinite

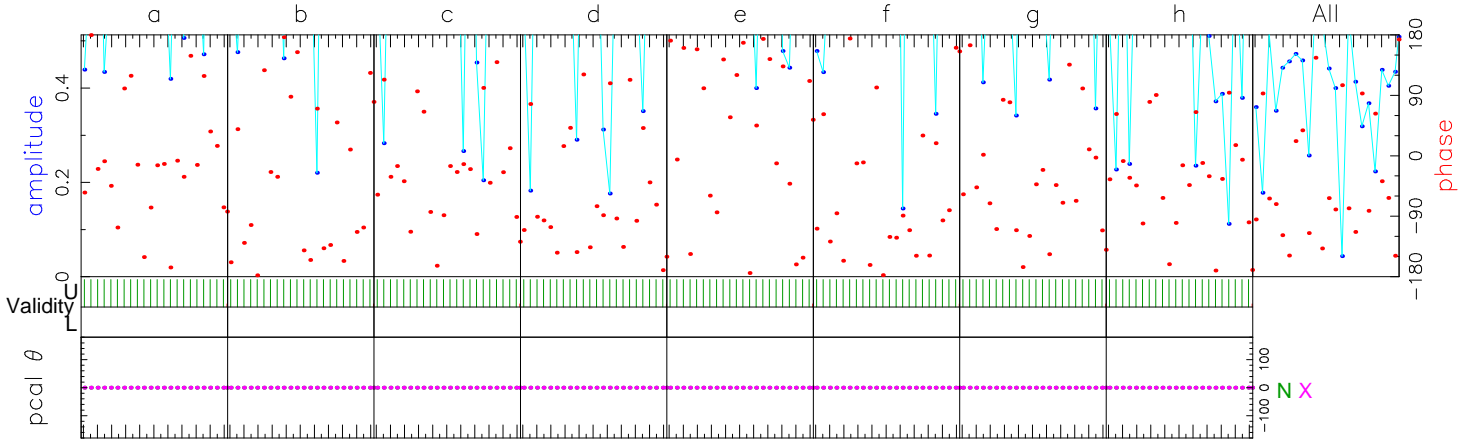
N: az 301.9 el 29.7 pa 55.6 X: az 298.7 el 32.8 pa 39.4 u,v (fr/asec) 1539.745 -1299.033 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/NX..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/NX.W.49.2L2HTN



Fringe quality 9
SNR 11.5
Int time 599.965
Amp 0.171
Phase -90.8
PFD 2.2e-21
Delays (us)
SBD -0.020035
MBD -0.005381
Fringe rate (Hz) 0.007565
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022150.00
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232037
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

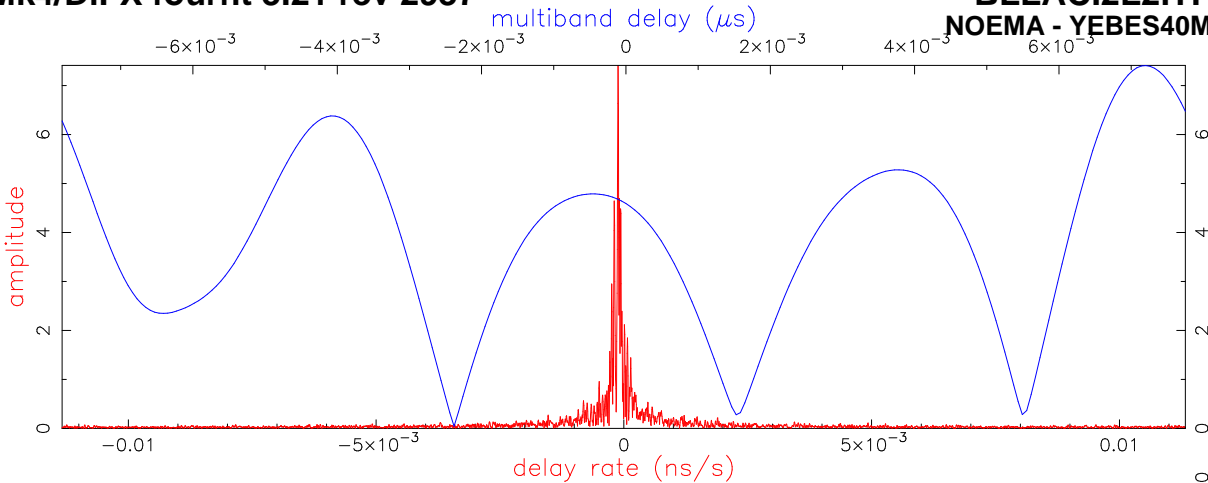
Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



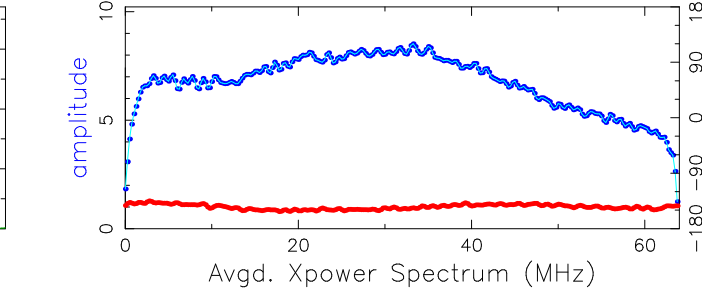
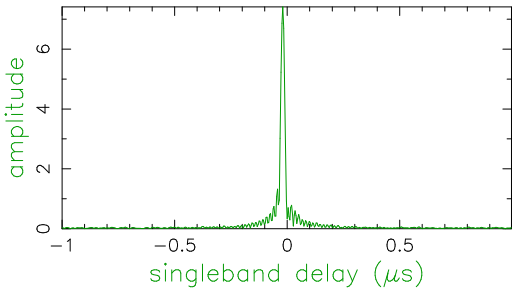
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-24.7	-160.6	-39.8	-102.8	164.3	-124.4	-75.5	-35.4	Phase	-90.8
	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.3	Ampl.	0.3
	253.5	251.3	251.1	250.9	251.5	251.7	253.0	251.5	Sbd box	251.9
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
N:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.17653792554E+03		Apriori delay (usec)		-1.17651691990E+03		Resid mbdelay (usec)		-5.38064E-03	+/- 9.5E-05
Sband delay (usec)	-1.17653695465E+03		Apriori clock (usec)		-9.5511887E+01		Resid sbdelay (usec)		-2.00348E-02	+/- 7.5E-04
Phase delay (usec)	-1.17651692282E+03		Apriori clockrate (us/s)		-5.9420004E-07		Resid phdelay (usec)		-2.92846E-06	+/- 3.2E-07
Delay rate (us/s)	-2.00893380904E-01		Apriori rate (us/s)		-2.00893468725E-01		Resid rate (us/s)		8.78208E-08	+/- 9.3E-10
Total phase (deg)			Apriori accel (us/s/s)		-4.88838187838E-06		Resid phase (deg)		-90.8	+/- 10.0

	RMS	Theor.	Amplitude	0.171 +/- 0.015	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	88.9	24.0	Search (4096X32)	0.170	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	151.0	41.9	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	67.6	14.1	Inc. seg. avg.	0.364	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	79.0	24.7	Inc. frq. avg.	0.292	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
					nlags: 256	t_cohere infinite

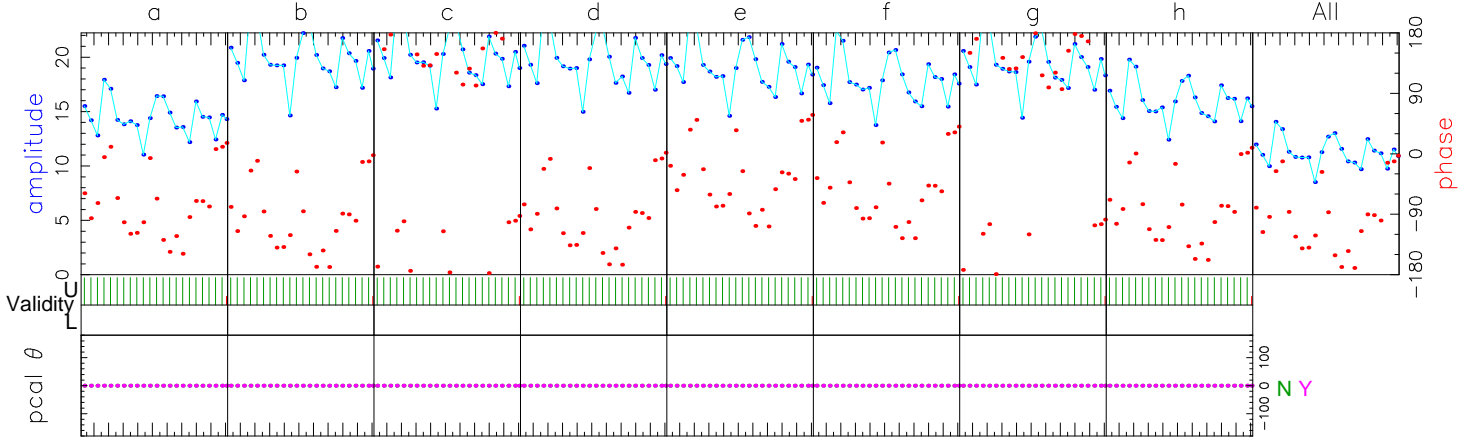
N: az 301.9 el 29.7 pa 55.6 X: az 298.7 el 32.8 pa 39.4 u,v (fr/asec) 1539.745 -1299.033 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/NX..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/NX.W.68.2L2HTN



Fringe quality 1
SNR 489.3
Int time 582.437
Amp 7.414
Phase -95.8
PFD 0.0e+00
Delays (us)
SBD -0.019814
MBD 0.007190
Fringe rate (Hz)
-0.010196
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022207.41
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232113
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

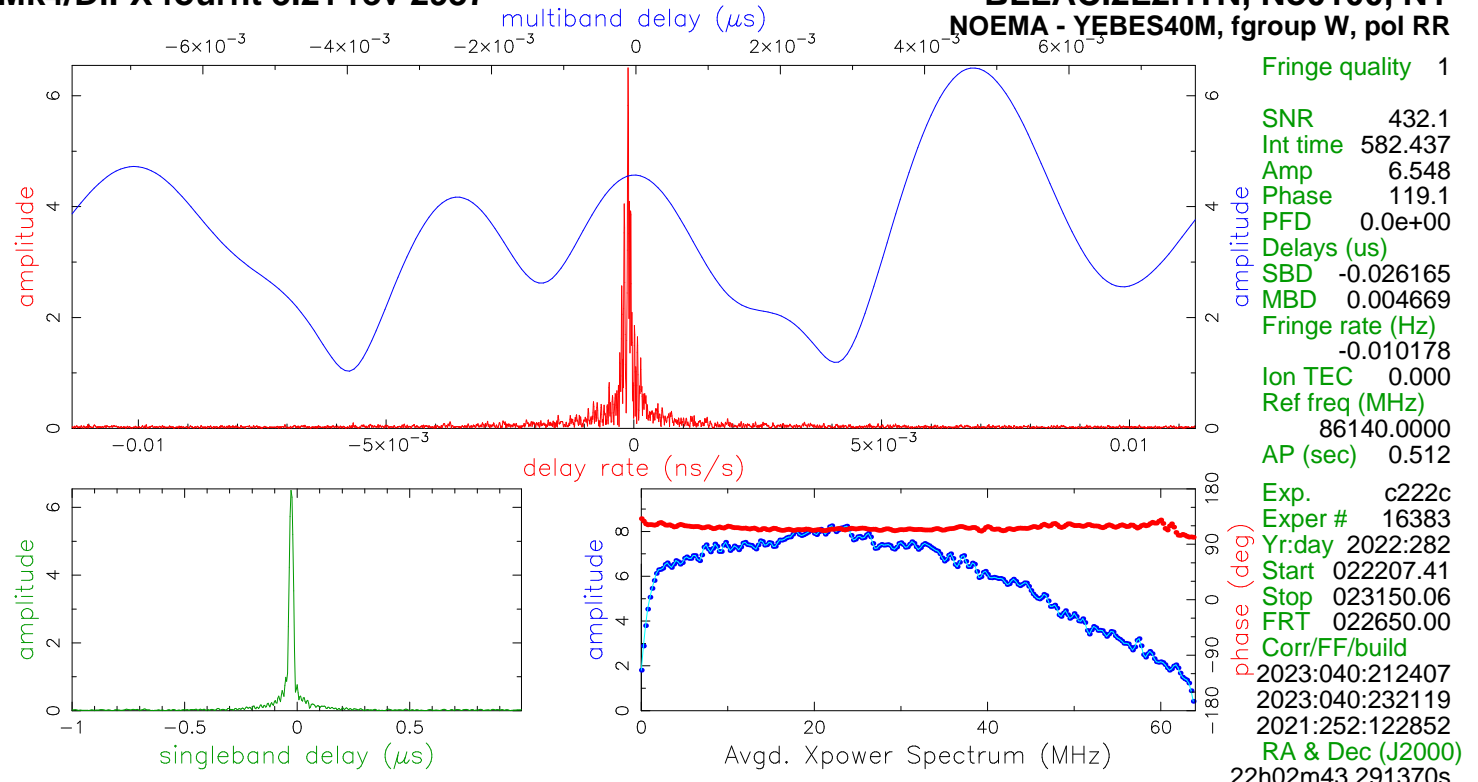


Amp. and Phase vs. time for each freq., 23 segs, 51 APs / seg (26.11 sec / seg.), time ticks 30 sec

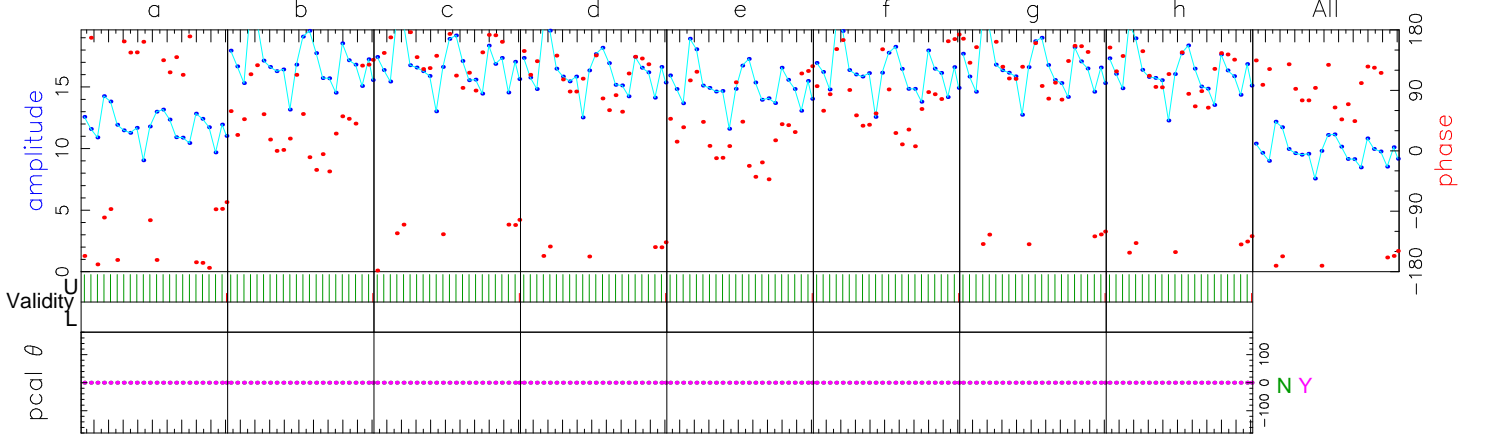


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-75.0	-95.0	175.6	-91.5	-33.7	-52.3	170.9	-83.5		-95.8
	9.6	13.1	13.3	13.0	12.6	11.8	12.8	10.5		12.1
	254.0	252.5	251.8	251.8	251.6	251.5	251.9	251.6		251.9
U/L	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0		
N	0	0	0	0	0	0	0	0		
Y	0	0	0	0	0	0	0	0		
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
N:Y	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		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks
										Tracks
Group delay (usec)(sbd)	-1.08715359578E+03		Apriori delay (usec)		-1.08712953628E+03		Resid mbdelay (usec)		7.19049E-03	+/- 2.2E-06
Sband delay (usec)	-1.08714934978E+03		Apriori clock (usec)		3.0872559E+01		Resid sbdelay (usec)		-1.98135E-02	+/- 1.8E-05
Phase delay (usec)	-1.08712953936E+03		Apriori clockrate (us/s)		1.5210000E-06		Resid phdelay (usec)		-3.08833E-06	+/- 7.6E-09
Delay rate (us/s)	4.31051829905E-02		Apriori rate (us/s)		4.31053013554E-02		Resid rate (us/s)		-1.18365E-07	+/- 2.2E-11
Total phase (deg)			Apriori accel (us/s/s)		9.97793541966E-06		Resid phase (deg)		-95.8	+/- 0.2

RMS Theor. Amplitude 7.414 +/- 0.015
 ph/seg (deg) 50.2 0.6 Search (4096X32) 7.222
 amp/seg (%) 54.7 1.0 Interp. 0.000
 ph/frq (deg) 61.8 0.3 Inc. seg. avg. 11.265
 amp/frq (%) 65.2 0.6 Inc. frq. avg. 12.077
 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(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 N: az 301.9 el 29.7 pa 55.6 Y: az 300.0 el 33.2 pa 62.5 u,v (fr/asec) -300.920 1069.194 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/NY..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/NY.W.121.2L2HTN



Amp. and Phase vs. time for each freq., 23 segs, 51 APs / seg (26.11 sec / seg.), time ticks 30 sec

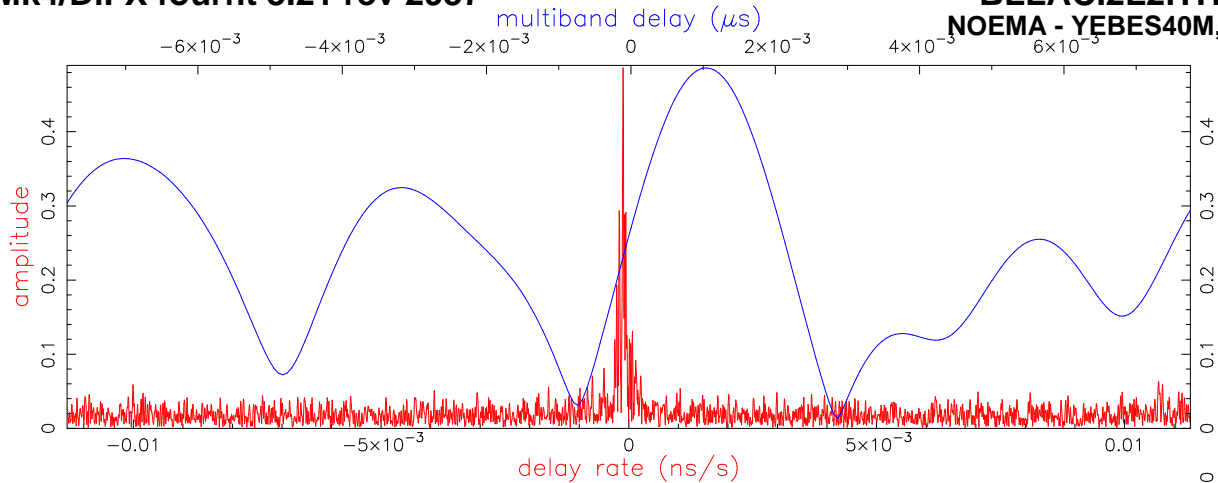


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-171.6	44.3	166.2	132.8	33.1	81.1	151.3	139.0	Phase	119.1
	7.8	11.3	11.0	10.7	10.0	10.7	11.0	10.6	Ampl.	10.4
	252.1	249.7	250.0	249.8	249.5	249.5	249.9	250.0	Sbd box	250.3
U/L	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.08715611685E+03		Apriori delay (usec)		-1.08712953628E+03		Resid mbdelay (usec)		4.66943E-03	+/- 2.5E-06
Sband delay (usec)	-1.08715570078E+03		Apriori clock (usec)		3.0872559E+01		Resid sbdelay (usec)		-2.61645E-02	+/- 2.0E-05
Phase delay (usec)	-1.08712953243E+03		Apriori clockrate (us/s)		1.5210000E-06		Resid phdelay (usec)		3.84005E-06	+/- 8.6E-09
Delay rate (us/s)	4.31051832005E-02		Apriori rate (us/s)		4.31053013554E-02		Resid rate (us/s)		-1.18155E-07	+/- 2.5E-11
Total phase (deg)	27.4		Apriori accel (us/s/s)		9.97793541966E-06		Resid phase (deg)		119.1	+/- 0.3

	RMS	Theor.	Amplitude	6.548 +/- 0.015	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	50.2	0.6	Search (4096X32)	6.311	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	53.3	1.1	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	62.0	0.4	Inc. seg. avg.	9.873	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	60.6	0.7	Inc. frq. avg.	10.379	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

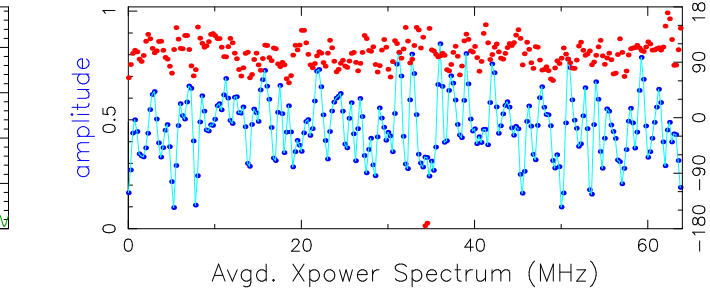
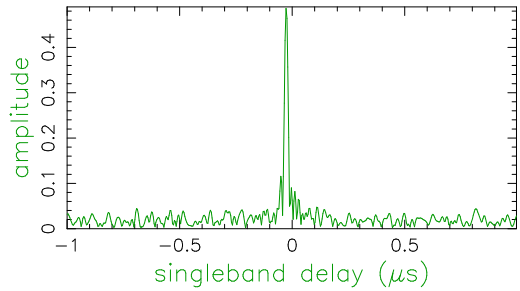
N: az 301.9 el 29.7 pa 55.6 Y: az 300.0 el 33.2 pa 62.5 u,v (fr/asec) -300.920 1069.194 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/NY..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/NY.W.147.2L2HTN



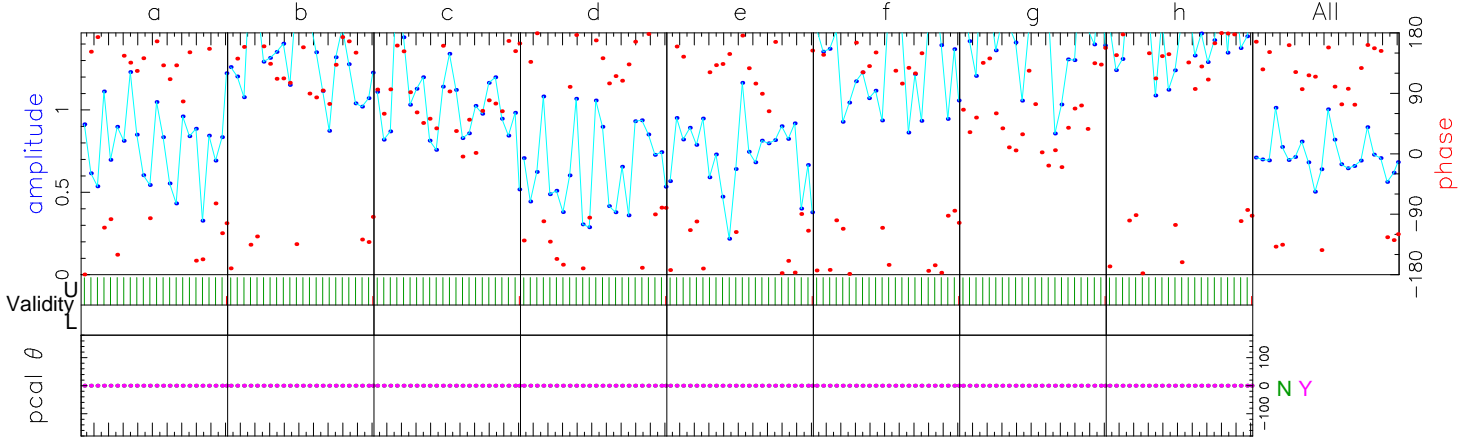
Fringe quality 3

SNR 32.3
Int time 582.437
Amp 0.489
Phase 149.2
PFD 0.0e+00
Delays (us)
SBD -0.026310
MBD 0.001062
Fringe rate (Hz)
-0.010175
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022207.41
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232125
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 51 APs / seg (26.11 sec / seg.), time ticks 30 sec



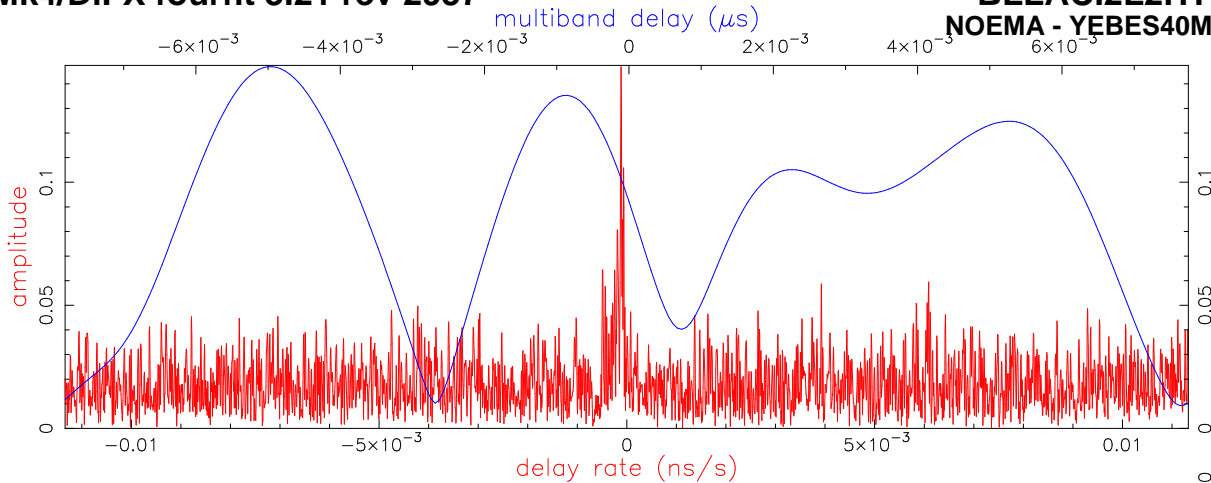
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	173.6	156.6	84.9	-174.9	170.9	176.7	58.9	179.2	Phase	149.2
	0.5	0.8	0.7	0.4	0.5	0.8	0.9	0.9	Ampl.	0.7
	252.7	250.7	250.9	250.4	250.0	250.2	250.8	250.5	Sbd box	250.3
U/L	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-1.08715972400E+03	Apriori delay (usec)	-1.08712953628E+03	Resid mbdelay (usec)	1.06227E-03	+/-	3.4E-05
Sband delay (usec)	-1.08715584653E+03	Apriori clock (usec)	3.0872559E+01	Resid sbdelay (usec)	-2.63103E-02	+/-	2.7E-04
Phase delay (usec)	-1.08712953146E+03	Apriori clockrate (us/s)	1.5210000E-06	Resid phdelay (usec)	4.81051E-06	+/-	1.1E-07
Delay rate (us/s)	4.31051832392E-02	Apriori rate (us/s)	4.31053013554E-02	Resid rate (us/s)	-1.18116E-07	+/-	3.4E-10
Total phase (deg)		Apriori accel (us/s/s)	9.97793541966E-06	Resid phase (deg)	149.2	+/-	3.5

ph/seg (deg)	50.5	RMS	50.5	Theor.	8.5	Amplitude	0.489 +/- 0.015	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	53.9		53.9		14.8	Search (4096X32)	0.476	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	52.2		52.2		5.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	60.3		60.3		8.8	Inc. seg. avg.	0.717	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Inc. frq. avg.	0.699	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

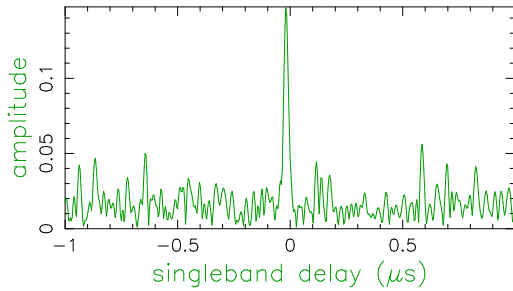
N: az 301.9 el 29.7 pa 55.6 Y: az 300.0 el 33.2 pa 62.5 u,v (fr/asec) -300.920 1069.194 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/NY..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/NY.W.172.2L2HTN

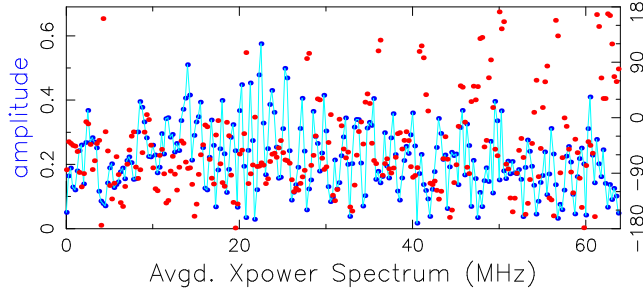


Fringe quality 9

SNR 9.7
Int time 582.437
Amp 0.147
Phase 127.2
PFD 1.8e-13
Delays (us)
SBD -0.018629
MBD -0.004972
Fringe rate (Hz)
-0.010156
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

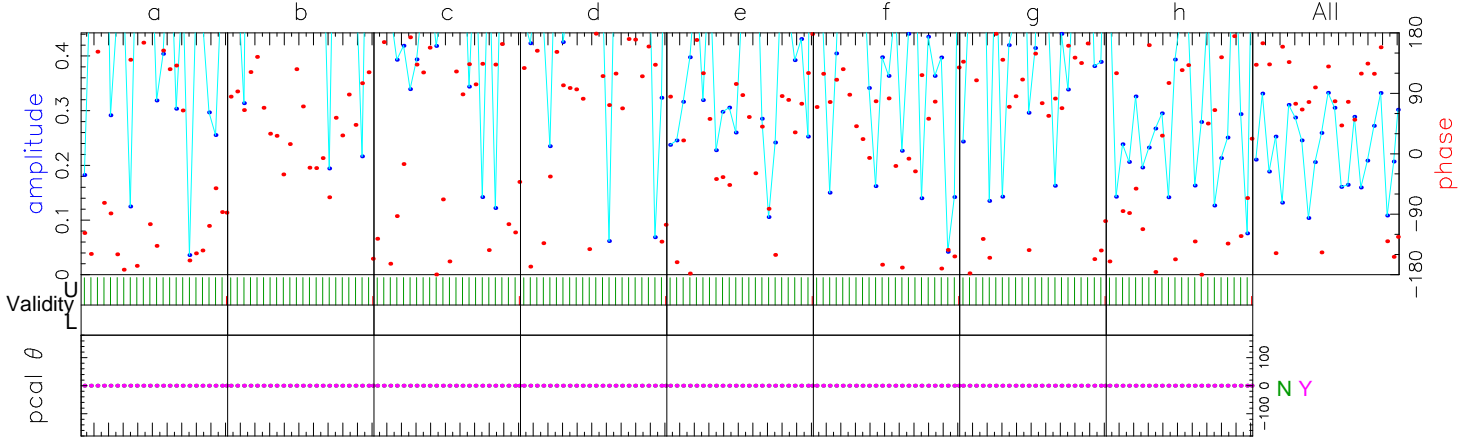


delay rate (ns/s)



Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022207.41
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232131
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 51 APs / seg (26.11 sec / seg.), time ticks 30 sec

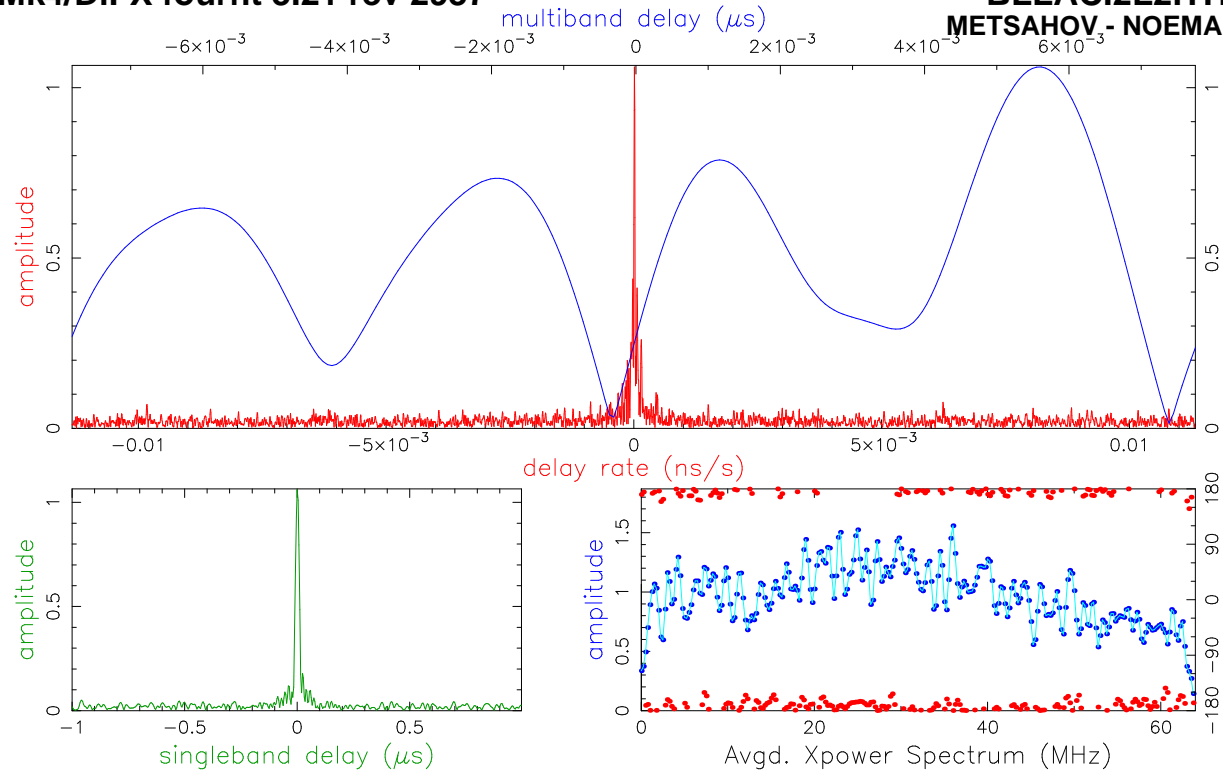


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-147.5	57.6	-179.8	143.1	73.3	72.0	140.4	178.4	Phase	127.2
	0.3	0.4	0.3	0.3	0.2	0.2	0.3	0.1	Ampl.	0.2
	254.2	251.8	251.3	251.4	250.8	252.2	252.0	254.2	Sbd box	252.2
U/L	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.08715013294E+03	Apriori delay (usec)	-1.08712953628E+03	Resid mbdelay (usec)	-4.97166E-03	+/-	1.1E-04
Sband delay (usec)	-1.08714816503E+03	Apriori clock (usec)	3.0872559E+01	Resid sbdelay (usec)	-1.86287E-02	+/-	8.9E-04
Phase delay (usec)	-1.08712953217E+03	Apriori clockrate (us/s)	1.5210000E-06	Resid phdelay (usec)	4.10229E-06	+/-	3.8E-07
Delay rate (us/s)	4.31051834514E-02	Apriori rate (us/s)	4.31053013554E-02	Resid rate (us/s)	-1.17904E-07	+/-	1.1E-09
Total phase (deg)		Apriori accel (us/s/s)	9.97793541966E-06	Resid phase (deg)	127.2	+/-	11.8

ph/seg (deg)	RMS 54.7	Theor. 28.2	Amplitude Search (4096X32)	0.145	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	74.6	49.3	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	63.2	16.6	Inc. seg. avg.	0.206	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	96.0	29.1	Inc. frq. avg.	0.240	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

N: az 301.9 el 29.7 pa 55.6 Y: az 300.0 el 33.2 pa 62.5 u,v (fr/asec) -300.920 1069.194 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/NY..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/NY.W.192.2L2HTN

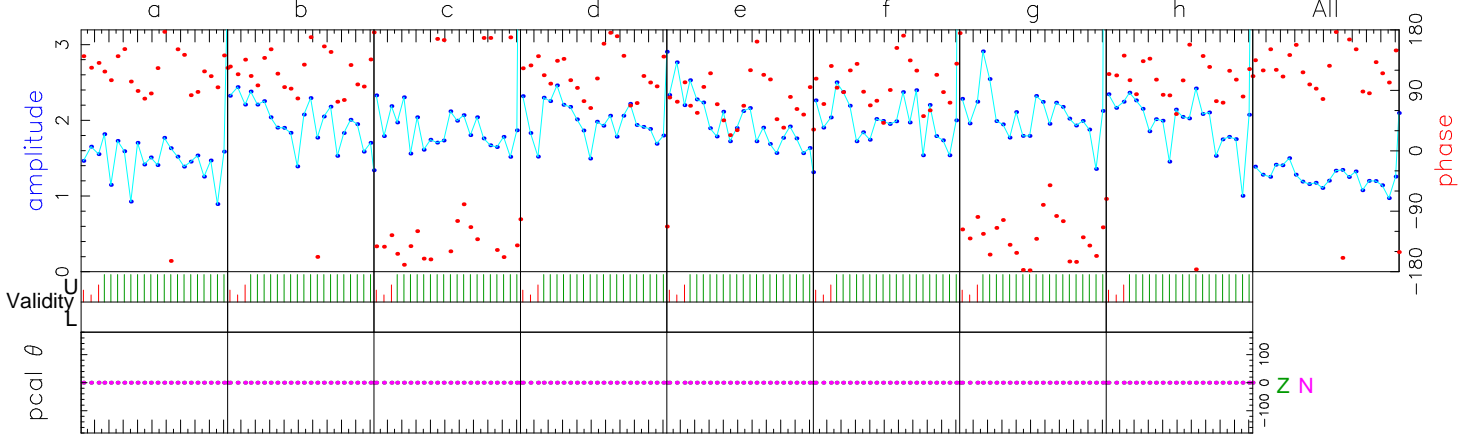


Fringe quality 2

SNR 67.7
Int time 540.831
Amp 1.065
Phase 128.7
PFD 0.0e+00
Delays (us)
SBD 0.000869
MBD 0.005612
Fringe rate (Hz) 0.000765
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:282
Start 022203.82
Stop 023150.06
FRT 022650.00
Corr/FF/build
2023:040:212407
2023:040:232149
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 52 APs / seg (26.62 sec / seg.), time ticks 30 sec



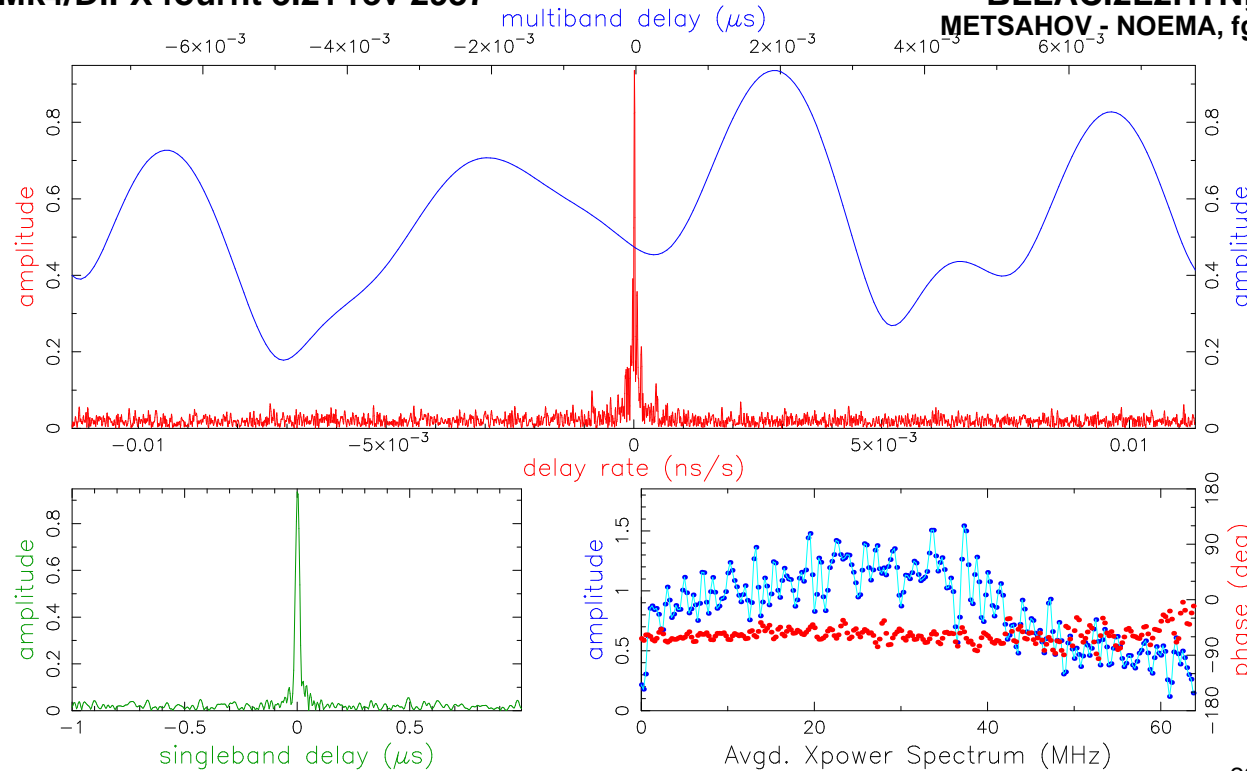
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	122.8	121.9	-149.9	115.0	76.0	100.8	-128.3	112.0	Phase	128.7
	1.2	1.7	1.6	1.7	1.6	1.7	1.8	1.7	Ampl.	1.6
	255.0	256.7	257.3	257.6	257.7	257.7	257.5	256.8	Sbd box	257.2
U/L	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.41850668109E+02	Apriori delay (usec)	-1.41856280525E+02	Resid mbdelay (usec)	5.61242E-03	+/-	1.6E-05
Sband delay (usec)	-1.41855411275E+02	Apriori clock (usec)	1.2735888E+01	Resid sbdelay (usec)	8.69250E-04	+/-	1.3E-04
Phase delay (usec)	-1.41856276374E+02	Apriori clockrate (us/s)	3.3299999E-08	Resid phdelay (usec)	4.15119E-06	+/-	5.5E-08
Delay rate (us/s)	2.73990301242E-01	Apriori rate (us/s)	2.73990292366E-01	Resid rate (us/s)	8.87575E-09	+/-	1.7E-10
Total phase (deg)	127.1	Apriori accel (us/s/s)	1.34055474866E-05	Resid phase (deg)	128.7	+/-	1.7

ph/seg (deg)	32.2	Theor.	4.0	Amplitude	1.065 +/- 0.016	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	20.4		6.9	Search (4096X32)	1.018	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	59.6		2.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	54.3		4.2	Inc. seg. avg.	1.240	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	1.622	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

Z: az 305.9 el 28.9 pa 33.5 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -2078.176 2089.095 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/ZN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/ZN.W.211.2L2HTN

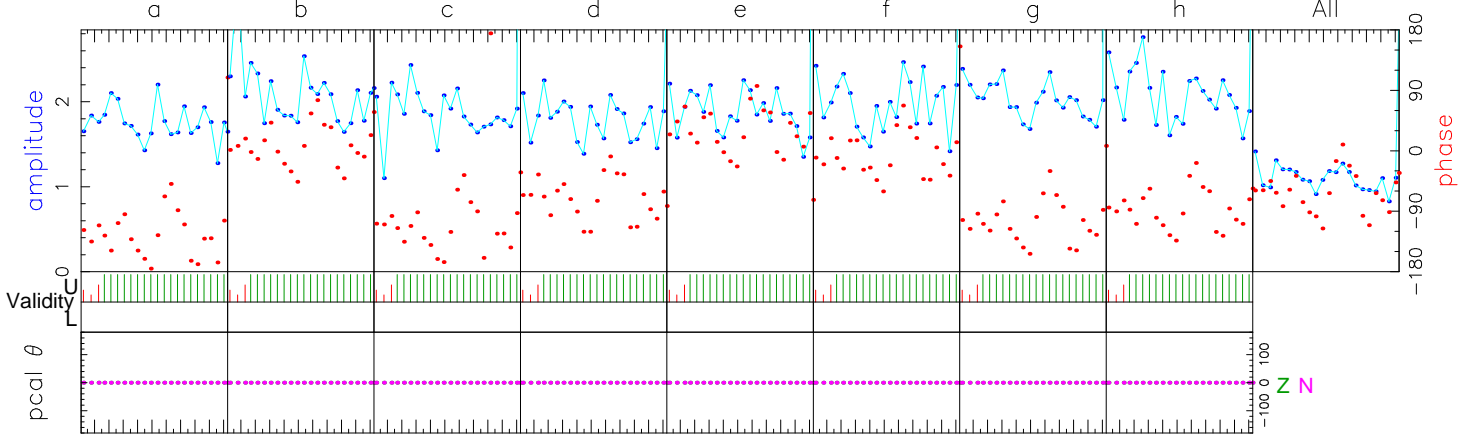


Fringe quality 2

SNR 60.3
 Int time 540.831
 Amp 0.949
 Phase -62.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.001681
 MBD 0.001920
 Fringe rate (Hz)
 0.000718
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c222c
 Exper # 16383
 Yr:day 2022:282
 Start 022203.82
 Stop 023150.06
 FRT 022650.00
 Corr/FF/build
 2023:040:212407
 2023:040:232155
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 52 APs / seg (26.62 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All				
	-125.5	7.4	-117.2	-70.2	29.9	-6.3	-104.4	-86.6	Phase	-62.8				
	1.5	1.8	1.5	1.5	1.6	1.7	1.7	1.8	Ampl.	1.6				
	255.9	257.2	257.9	258.3	258.3	258.1	258.0	257.2	Sbd box	257.4				
U/L	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	APs used					
Z	0	0	0	0	0	0	0	0	PC freqs					
N	0	0	0	0	0	0	0	0	PC freqs					
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC					
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
N	1000	1000	1000	1000	1000	1000	1000	1000						
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids					
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks					
									Tracks					
Group delay (usec)(sbd)	-1.41854360734E+02								Apriori delay (usec)	-1.41856280525E+02	Resid mbdelay (usec)	1.91979E-03	+/-	1.8E-05
Sband delay (usec)	-1.41854599275E+02								Apriori clock (usec)	1.2735888E+01	Resid sbdelay (usec)	1.68125E-03	+/-	1.4E-04
Phase delay (usec)	-1.41856282549E+02								Apriori clockrate (us/s)	3.3299999E-08	Resid phdelay (usec)	-2.02423E-06	+/-	6.1E-08
Delay rate (us/s)	2.73990300705E-01								Apriori rate (us/s)	2.73990292366E-01	Resid rate (us/s)	8.33901E-09	+/-	1.9E-10
Total phase (deg)			-64.4						Apriori accel (us/s/s)	1.34055474866E-05	Resid phase (deg)	-62.8	+/-	1.9

ph/seg (deg) 31.9 4.4
 amp/seg (%) 20.9 7.8
 ph/frq (deg) 65.8 2.7
 amp/frq (%) 73.9 4.7

RMS Theor. Amplitude 0.949 +/- 0.016
 Search (4096X32) 0.907
 Interp. 0.000
 Inc. seg. avg. 1.092
 Inc. frq. avg. 1.640

Group delay (usec)(sbd) -1.41854360734E+02
 Sband delay (usec) -1.41854599275E+02
 Phase delay (usec) -1.41856282549E+02
 Delay rate (us/s) 2.73990300705E-01
 Total phase (deg) -64.4

Apriori delay (usec) -1.41856280525E+02
 Apriori clock (usec) 1.2735888E+01
 Apriori clockrate (us/s) 3.3299999E-08
 Apriori rate (us/s) 2.73990292366E-01
 Apriori accel (us/s/s) 1.34055474866E-05

Resid mbdelay (usec) 1.91979E-03
 Resid sbdelay (usec) 1.68125E-03
 Resid phdelay (usec) -2.02423E-06
 Resid rate (us/s) 8.33901E-09
 Resid phase (deg) -62.8

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
 PC freqs
 PC phase
 Mani PC
 PC amp

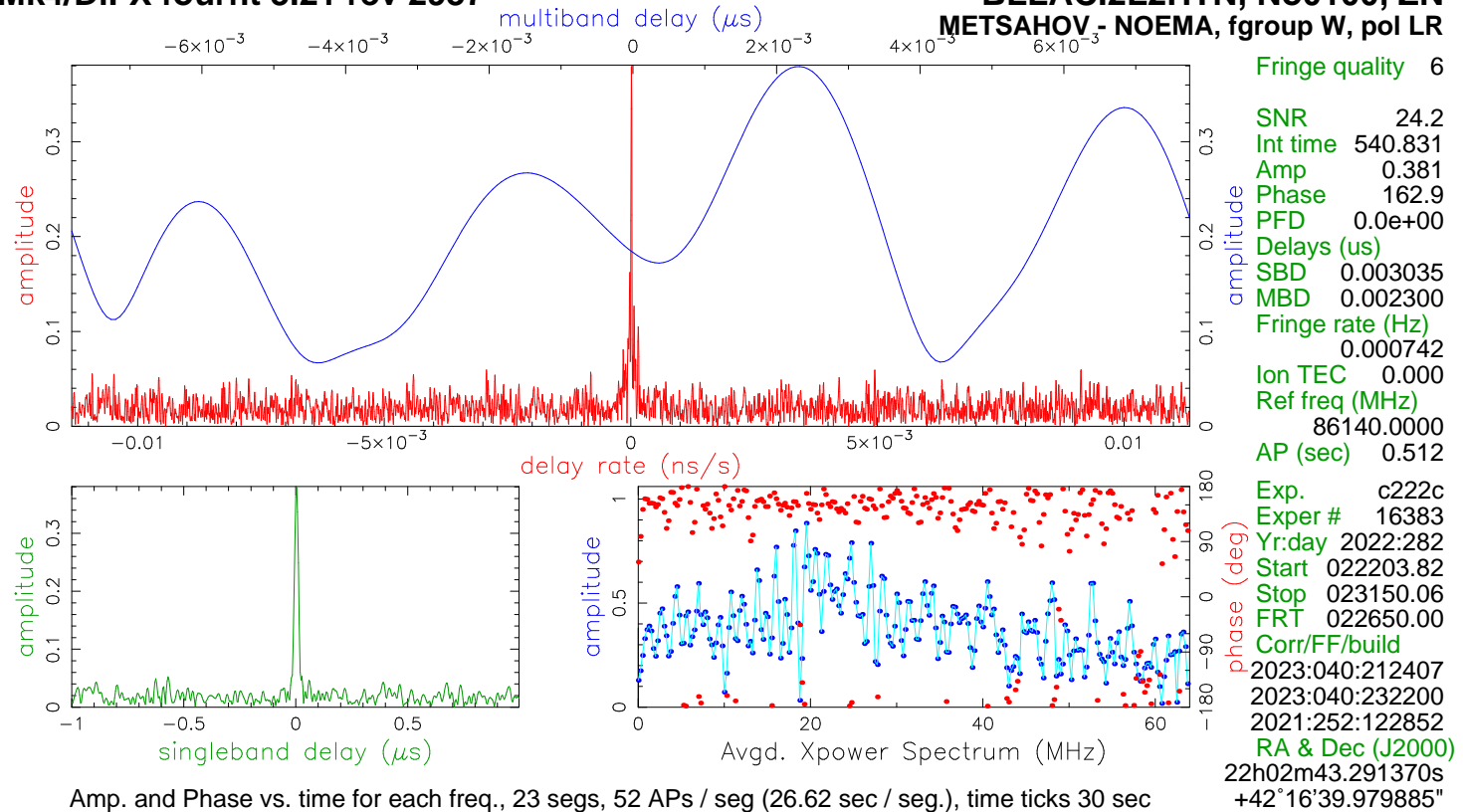
sb window (us) -1.000 1.000
 mb window (us) -0.008 0.008
 dr window (ns/s) -0.011 0.011
 ion window (TEC) 0.00 0.00

nlags: 256 t_cohere infinite

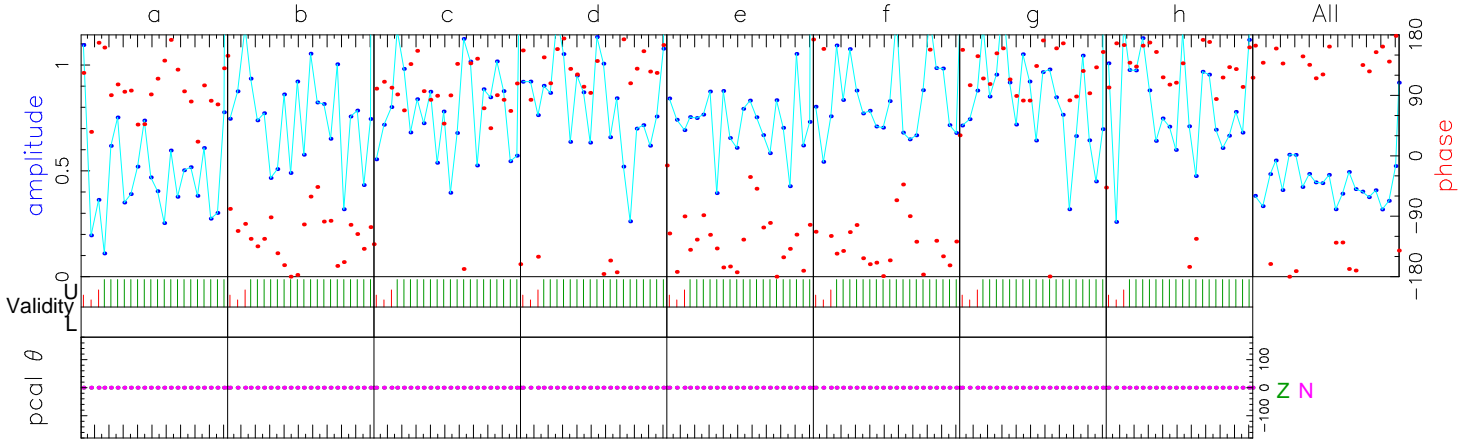
Z: az 305.9 el 28.9 pa 33.5
 N: az 301.9 el 29.7 pa 55.6
 u,v (fr/asec) -2078.176 2089.095

simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/ZN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/ZN.W.230.2L2HTN



Amp. and Phase vs. time for each freq., 23 segs, 52 APs / seg (26.62 sec / seg.), time ticks 30 sec



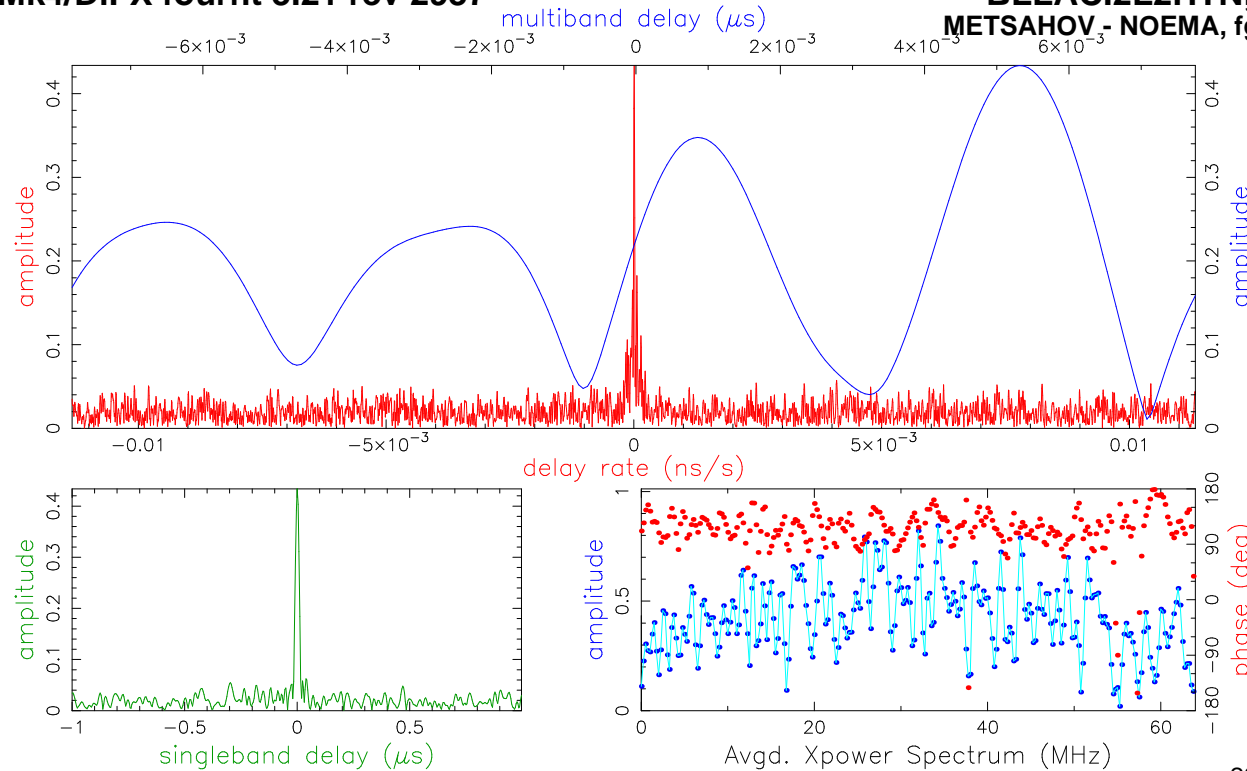
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	99.8	-118.8	100.3	147.2	-125.5	-137.7	129.6	143.5	Phase	162.9
	0.4	0.6	0.6	0.7	0.6	0.7	0.7	0.7	Ampl.	0.6
	255.5	257.2	257.8	258.6	258.7	258.3	258.3	257.3	Sbd box	257.8
U/L	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-1.41853980390E+02	Apriori delay (usec)	-1.41856280525E+02	Resid mbdelay (usec)	2.30013E-03	+/-	4.5E-05
Sband delay (usec)	-1.41853245775E+02	Apriori clock (usec)	1.2735888E+01	Resid sbdelay (usec)	3.03475E-03	+/-	3.6E-04
Phase delay (usec)	-1.41856275273E+02	Apriori clockrate (us/s)	3.3299999E-08	Resid phdelay (usec)	5.25203E-06	+/-	1.5E-07
Delay rate (us/s)	2.73990300985E-01	Apriori rate (us/s)	2.73990292366E-01	Resid rate (us/s)	8.61925E-09	+/-	4.7E-10
Total phase (deg)		Apriori accel (us/s/s)	1.34055474866E-05	Resid phase (deg)	162.9	+/-	4.7

ph/seg (deg)	32.4	Theor.	11.1	Amplitude	0.381 +/- 0.016	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	25.3		19.3	Search (4096X32)	0.367	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	63.8		6.7	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	68.2		11.7	Inc. seg. avg.	0.432	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.616	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

Z: az 305.9 el 28.9 pa 33.5 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -2078.176 2089.095 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/ZN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/ZN.W.243.2L2HTN

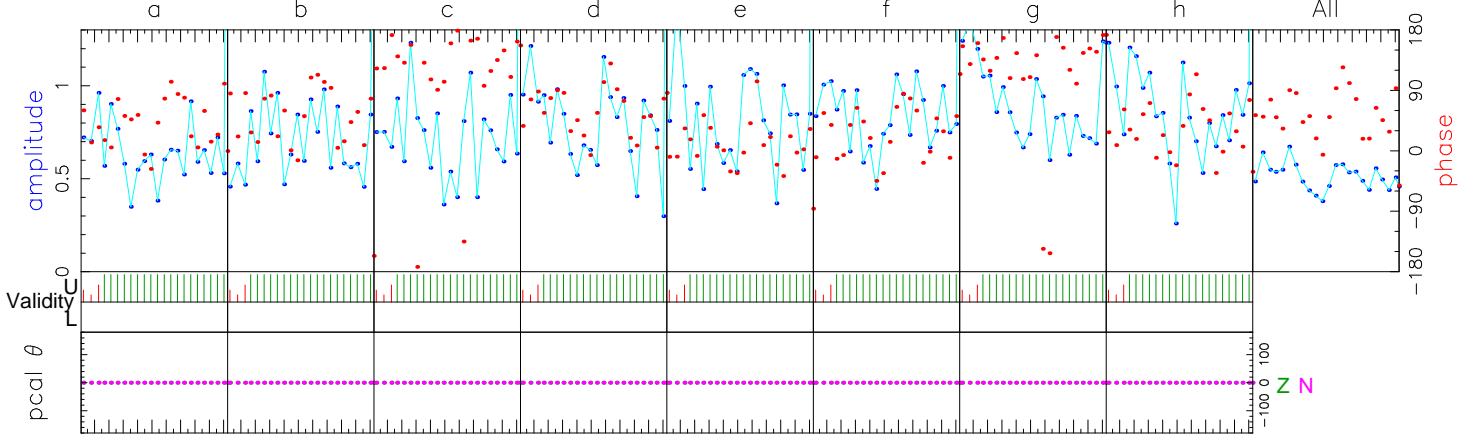


Fringe quality 6

SNR 27.6
 Int time 540.831
 Amp 0.434
 Phase 60.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.000331
 MBD 0.005328
 Fringe rate (Hz) 0.000690
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c222c
 Exper # 16383
 Yr:day 2022:282
 Start 022203.82
 Stop 023150.06
 FRT 022650.00
 Corr/FF/build
 2023:040:212407
 2023:040:232205
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 52 APs / seg (26.62 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	41.7	52.9	142.3	62.2	11.6	28.5	145.6	35.9	Phase	60.4
	0.5	0.6	0.6	0.6	0.7	0.7	0.8	0.7	Ampl.	0.6
	255.1	256.3	257.1	257.4	257.7	257.4	257.5	256.5	Sbd box	257.1
U/L	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	1093/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) -1.41850952129E+02 Apriori delay (usec) -1.41856280525E+02 Resid mbdelay (usec) 5.32840E-03 +/- 3.9E-05
 Sband delay (usec) -1.41855949525E+02 Apriori clock (usec) 1.2735888E+01 Resid sbdelay (usec) 3.31000E-04 +/- 3.1E-04
 Phase delay (usec) -1.41856278577E+02 Apriori clockrate (us/s) 3.3299999E-08 Resid phdelay (usec) 1.94735E-06 +/- 1.3E-07
 Delay rate (us/s) 2.73990300379E-01 Apriori rate (us/s) 2.73990292366E-01 Resid rate (us/s) 8.01343E-09 +/- 4.1E-10
 Total phase (deg) 58.8 Apriori accel (us/s/s) 1.34055474866E-05 Resid phase (deg) 60.4 +/- 4.2

RMS Theor. Amplitude 0.434 +/- 0.016 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 33.1 9.7 Search (4096X32) 0.422 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 23.9 17.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 55.3 5.9 Inc. seg. avg. 0.503 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 50.5 10.3 Inc. frq. avg. 0.636 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 305.9 el 28.9 pa 33.5 N: az 301.9 el 29.7 pa 55.6 u,v (fr/asec) -2078.176 2089.095 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0100/ZN..2L2HTN Output file: /Exps/c222c/v1/3mm/3001/No0100/ZN.W.260.2L2HTN