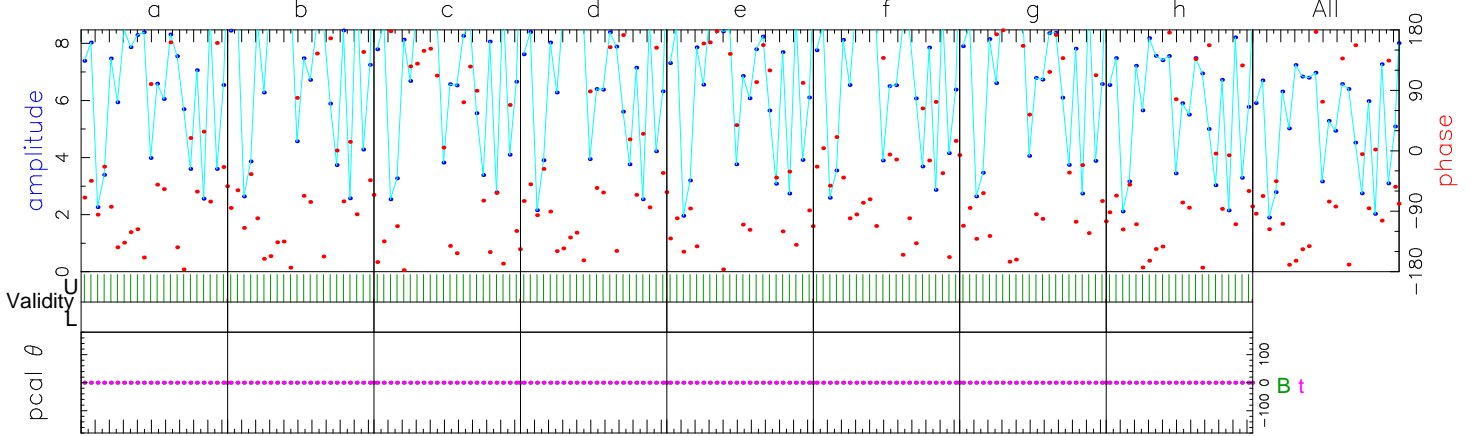


Fringe quality 2
 SNR 189.2
 Int time 599.966
 Amp 2.826
 Phase -126.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.032208
 MBD -0.000450
 Fringe rate (Hz) 0.028460
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c222c
 Exper # 16383
 Yr:day 2022:281
 Start 154000.00
 Stop 155000.06
 FRT 154555.00
 Corr/FF/build
 2023:040:205350
 2023:040:223645
 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

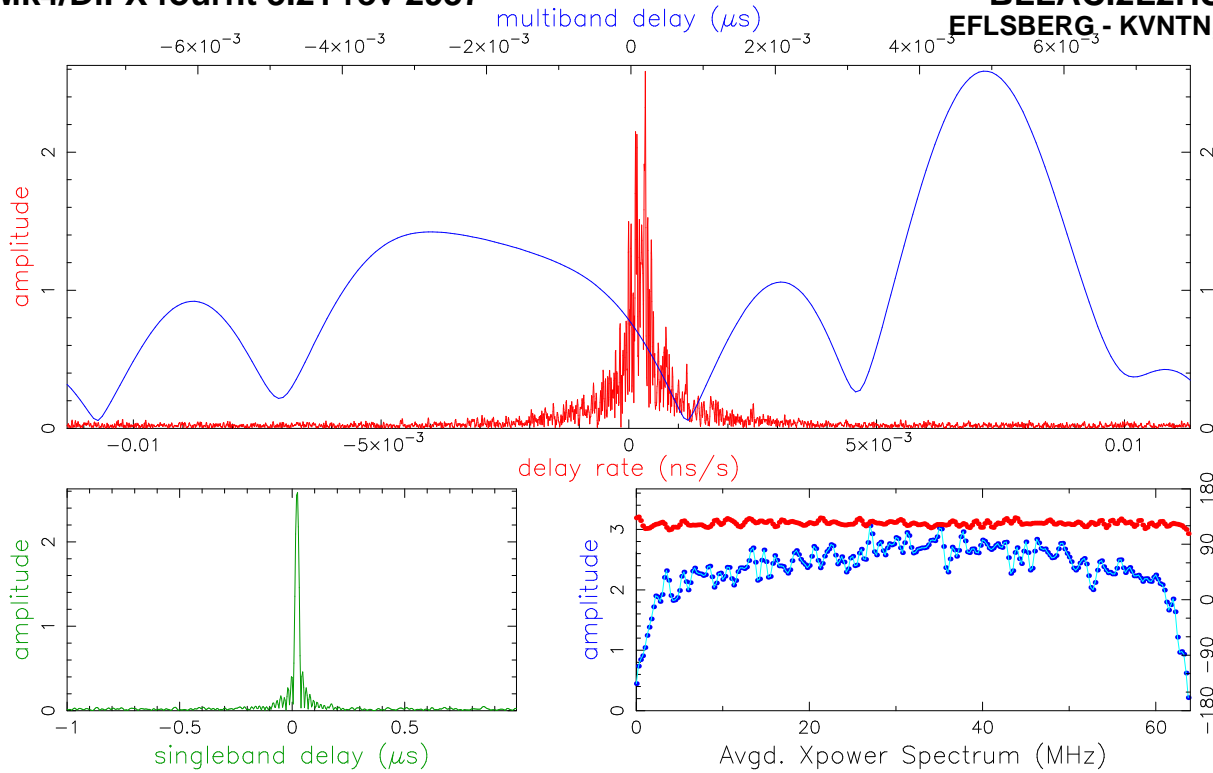


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0		
B	0	0	0	0	0	0	0	0		
t	0	0	0	0	0	0	0	0		
B:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-2.04556876102E+03	Apriori delay (usec)	-2.04559956059E+03	Resid mbdelay (usec)	-4.50427E-04	+/-	5.7E-06
Sband delay (usec)	-2.04556735234E+03	Apriori clock (usec)	-3.3945236E+01	Resid sbdelay (usec)	3.22082E-02	+/-	4.6E-05
Phase delay (usec)	-2.04559956466E+03	Apriori clockrate (us/s)	-4.3499999E-07	Resid phdelay (usec)	-4.06415E-06	+/-	2.0E-08
Delay rate (us/s)	1.41391064202E+00	Apriori rate (us/s)	1.41391031162E+00	Resid rate (us/s)	3.30397E-07	+/-	5.6E-11
Total phase (deg)	-179.9	Apriori accel (us/s/s)	2.76704597277E-05	Resid phase (deg)	-126.0	+/-	0.6

ph/seg (deg)	72.0	1.5	Search (4096X32)	2.749	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	103.8	2.5	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)	44.6	0.9	Inc. seg. avg.	5.178	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	27.1	1.5	Inc. frq. avg.	3.559	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 70.4 el 41.9 pa -54.1 t: az 298.0 el 51.7 pa 88.1 u,v (fr/asec) -10879.146 3650.354 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/Bt..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/Bt.W.28.2L2HSR

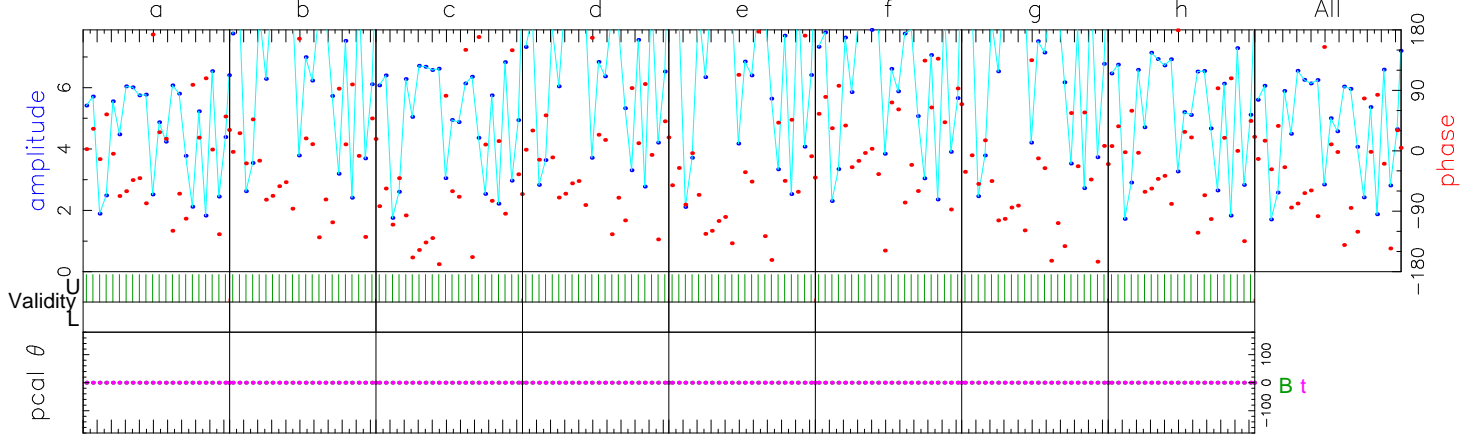


Fringe quality 2

SNR 176.0
Int time 599.966
Amp 2.628
Phase -41.6
PFD 0.0e+00
Delays (us)
SBD 0.021754
MBD 0.004859
Fringe rate (Hz)
0.028450
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154000.00
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:040:223652
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
	-22.6	-30.9	-113.5	-26.6	-83.5	21.7	-63.1	-20.6	Phase	-41.6
	2.5	3.7	2.7	3.6	3.6	3.3	3.8	2.9	Ampl.	3.3
	260.9	262.7	263.4	263.2	263.5	263.2	263.1	261.7	Sbd box	262.6
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	
t	0	0	0	0	0	0	0	0	PC freqs	
B:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:t	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	
t	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.04557907655E+03		Apriori delay (usec)		-2.04559956059E+03		Resid mbdelay (usec)		4.85904E-03	+/- 6.2E-06
Sband delay (usec)	-2.04557780609E+03		Apriori clock (usec)		-3.3945236E+01		Resid sbdelay (usec)		2.17545E-02	+/- 4.9E-05
Phase delay (usec)	-2.04559956194E+03		Apriori clockrate (us/s)		-4.3499999E-07		Resid phdelay (usec)		-1.34028E-06	+/- 2.1E-08
Delay rate (us/s)	1.41391064189E+00		Apriori rate (us/s)		1.41391031162E+00		Resid rate (us/s)		3.30271E-07	+/- 6.1E-11
Total phase (deg)			Apriori accel (us/s/s)		2.76704597277E-05		Resid phase (deg)		-41.6	+/- 0.7

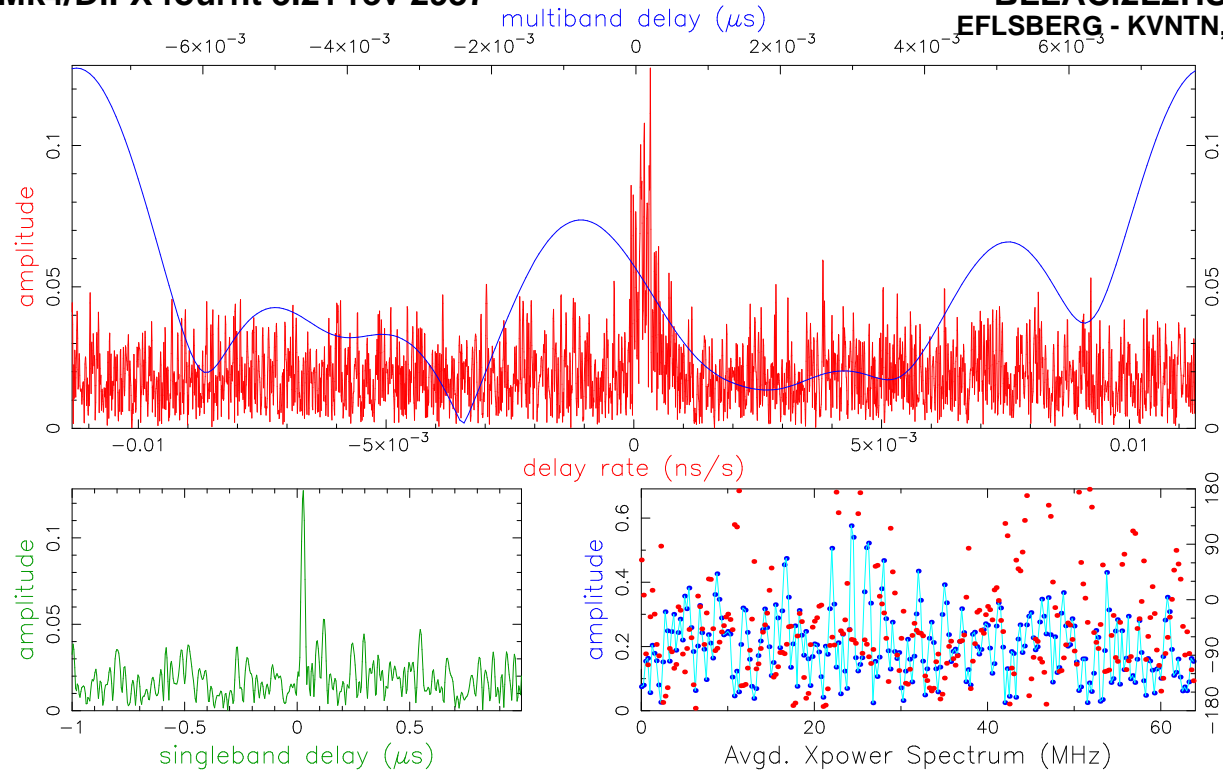
ph/seg (deg) 72.1 1.6
amp/seg (%) 100.5 2.7
ph/frq (deg) 45.7 0.9
amp/frq (%) 29.9 1.6

RMS Theor. Amplitude 2.628 +/- 0.015
72.1 1.6 Search (4096X32) 2.529
100.5 2.7 Interp. 0.000
45.7 0.9 Inc. seg. avg. 4.727
29.9 1.6 Inc. frq. avg. 3.261

Group delay (usec)(sbd) -2.04557907655E+03 Apriori delay (usec) -2.04559956059E+03 Resid mbdelay (usec) 4.85904E-03 +/- 6.2E-06
Sband delay (usec) -2.04557780609E+03 Apriori clock (usec) -3.3945236E+01 Resid sbdelay (usec) 2.17545E-02 +/- 4.9E-05
Phase delay (usec) -2.04559956194E+03 Apriori clockrate (us/s) -4.3499999E-07 Resid phdelay (usec) -1.34028E-06 +/- 2.1E-08
Delay rate (us/s) 1.41391064189E+00 Apriori rate (us/s) 1.41391031162E+00 Resid rate (us/s) 3.30271E-07 +/- 6.1E-11
Total phase (deg) -95.4 Apriori accel (us/s/s) 2.76704597277E-05 Resid phase (deg) -41.6 +/- 0.7

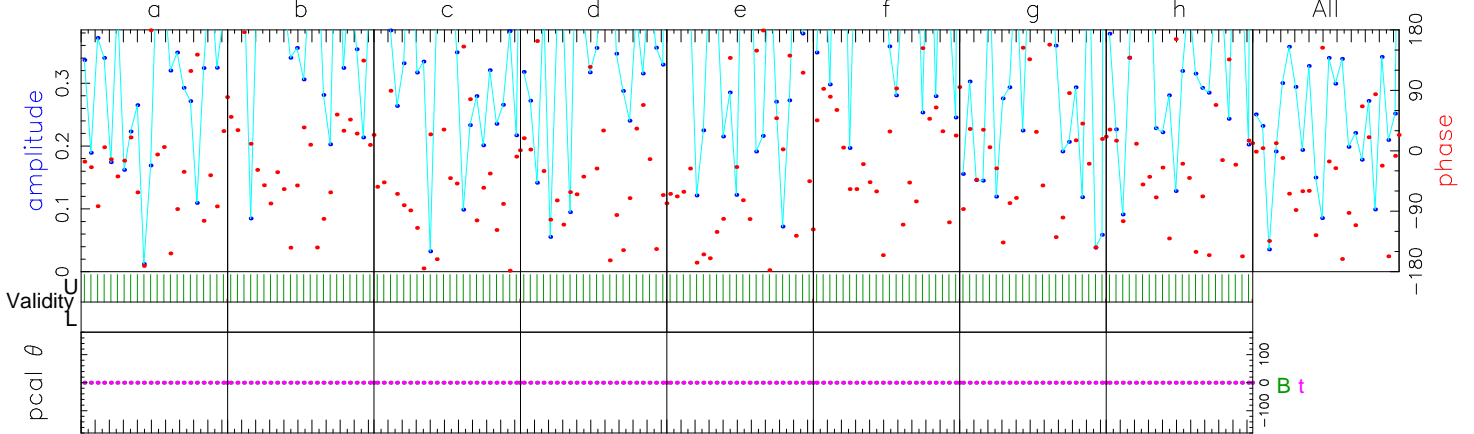
pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC)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

B: az 70.4 el 41.9 pa -54.1 t: az 298.0 el 51.7 pa 88.1 u,v (fr/asec) -10879.146 3650.354 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/Bt..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/Bt.W.58.2L2HSR



Fringe quality 9
 SNR 8.6
 Int time 599.966
 Amp 0.128
 Phase -39.2
 PFD 6.2e-09
 Delays (us)
 SBD 0.026230
 MBD -0.007769
 Fringe rate (Hz)
 0.028640
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c222c
 Exper # 16383
 Yr:day 2022:281
 Start 154000.00
 Stop 155000.06
 FRT 154555.00
 Corr/FF/build
 2023:040:205350
 2023:040:223659
 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

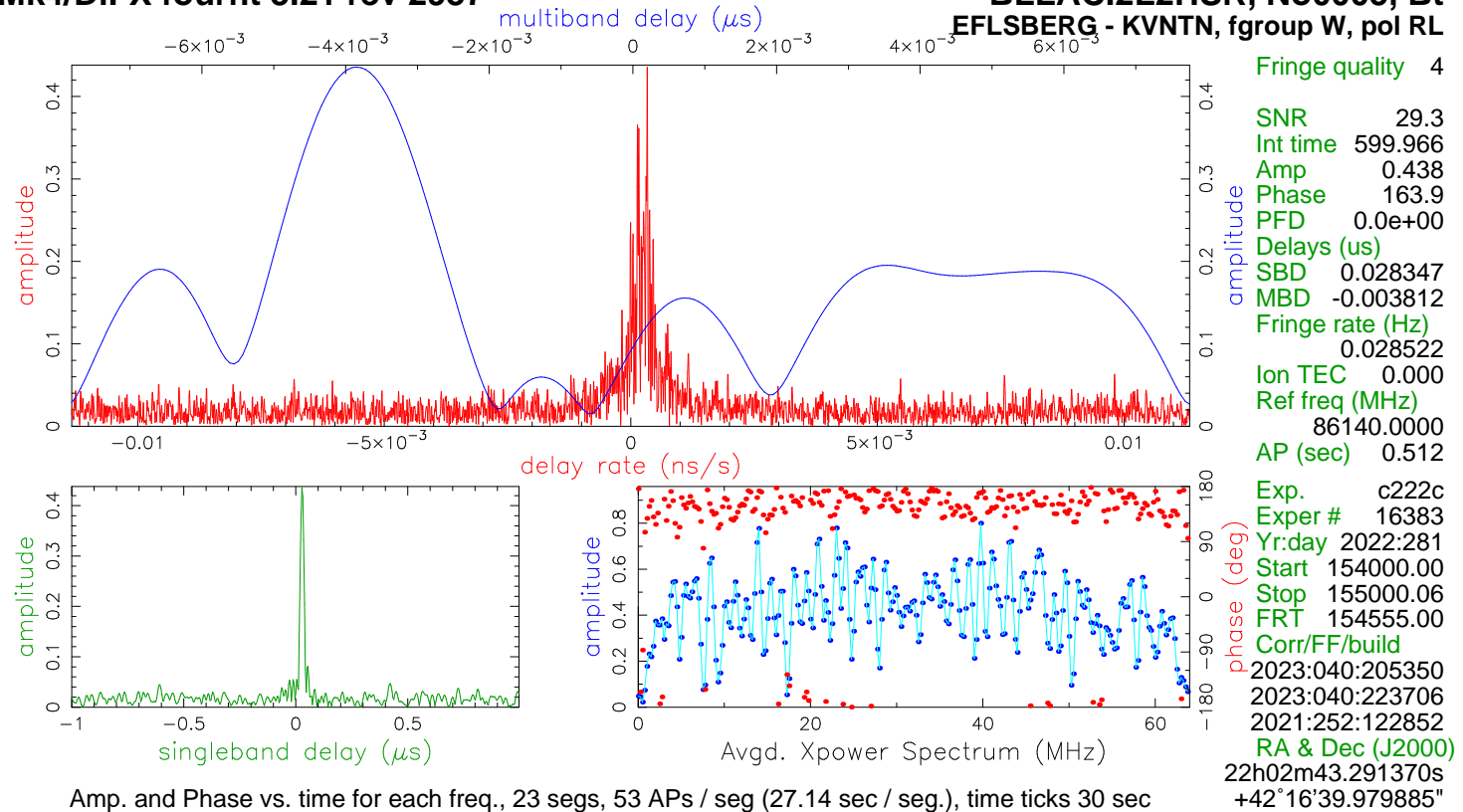


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-31.9	-5.8	-72.5	-52.6	-107.1	-0.2	-28.0	-29.6	Phase	-39.2
	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	Ampl.	0.1
	263.1	262.9	264.9	263.9	264.2	264.0	340.5	262.9	Sbd box	263.7
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
t	0	0	0	0	0	0	0	0	PC freqs	
B:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:t	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	
t	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

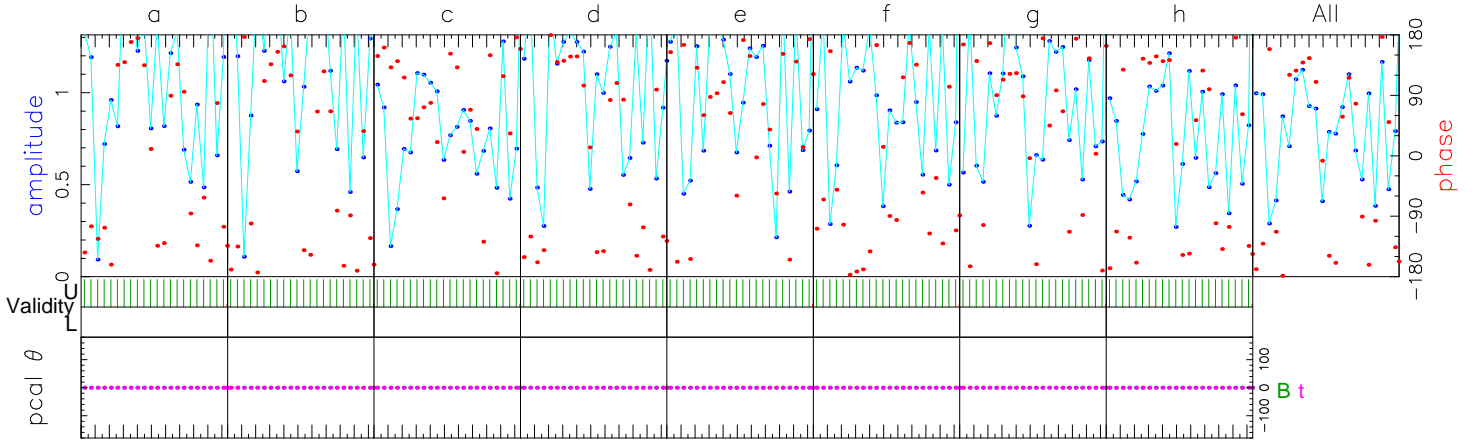
Group delay (usec)(sbd)	-2.04557607999E+03	Apriori delay (usec)	-2.04559956059E+03	Resid mbdelay (usec)	-7.76940E-03	+/-	1.3E-04
Sband delay (usec)	-2.04557333059E+03	Apriori clock (usec)	-3.3945236E+01	Resid sbdelay (usec)	2.62300E-02	+/-	1.0E-03
Phase delay (usec)	-2.04559956186E+03	Apriori clockrate (us/s)	-4.3499999E-07	Resid phdelay (usec)	-1.26324E-06	+/-	4.3E-07
Delay rate (us/s)	1.41391064410E+00	Apriori rate (us/s)	1.41391031162E+00	Resid rate (us/s)	3.32482E-07	+/-	1.2E-09
Total phase (deg)		Apriori accel (us/s/s)	2.76704597277E-05	Resid phase (deg)	-39.2	+/-	13.3

ph/seg (deg)	RMS 74.9	Theor. 32.0	Amplitude Search (4096X32)	0.128 +/- 0.015	0.127	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	112.7	55.8	Interp.	0.000	0.127	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	38.3	18.9	Inc. seg. avg.	0.206	0.127	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	31.1	32.9	Inc. frq. avg.	0.146	0.127	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 70.4 el 41.9 pa -54.1 t: az 298.0 el 51.7 pa 88.1 u,v (fr/asec) -10879.146 3650.354 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/Bt..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/Bt.W.80.2L2HSR



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

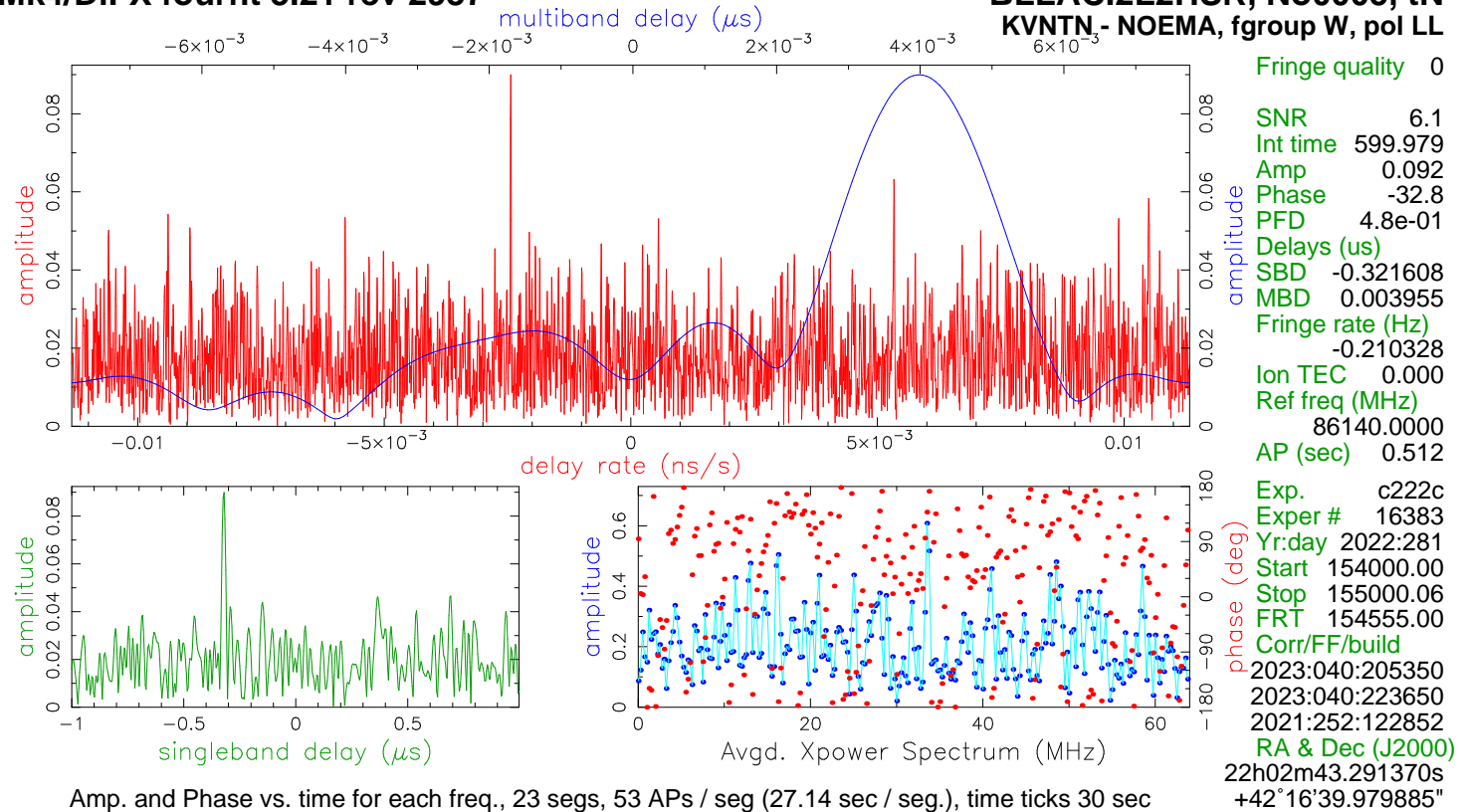


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-172.6	169.4	102.7	175.2	122.7	-134.5	134.3	174.2	Phase	163.9
	0.6	0.6	0.4	0.6	0.5	0.5	0.5	0.5	Ampl.	0.5
	262.4	264.8	265.3	265.0	265.1	265.1	264.8	263.1	Sbd box	264.3
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
t	0	0	0	0	0	0	0	0	PC freqs	
B:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:t	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	
t	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.04557212246E+03		Apriori delay (usec)	-2.04559956059E+03	Resid mbdelay (usec)	-3.81186E-03	+/-	3.7E-05		
Sband delay (usec)	-2.04557121334E+03		Apriori clock (usec)	-3.3945236E+01	Resid sbdelay (usec)	2.83473E-02	+/-	2.9E-04		
Phase delay (usec)	-2.04559955531E+03		Apriori clockrate (us/s)	-4.3499999E-07	Resid phdelay (usec)	5.28670E-06	+/-	1.3E-07		
Delay rate (us/s)	1.41391064274E+00		Apriori rate (us/s)	1.41391031162E+00	Resid rate (us/s)	3.31115E-07	+/-	3.6E-10		
Total phase (deg)		110.1	Apriori accel (us/s/s)	2.76704597277E-05	Resid phase (deg)	163.9	+/-	3.9		

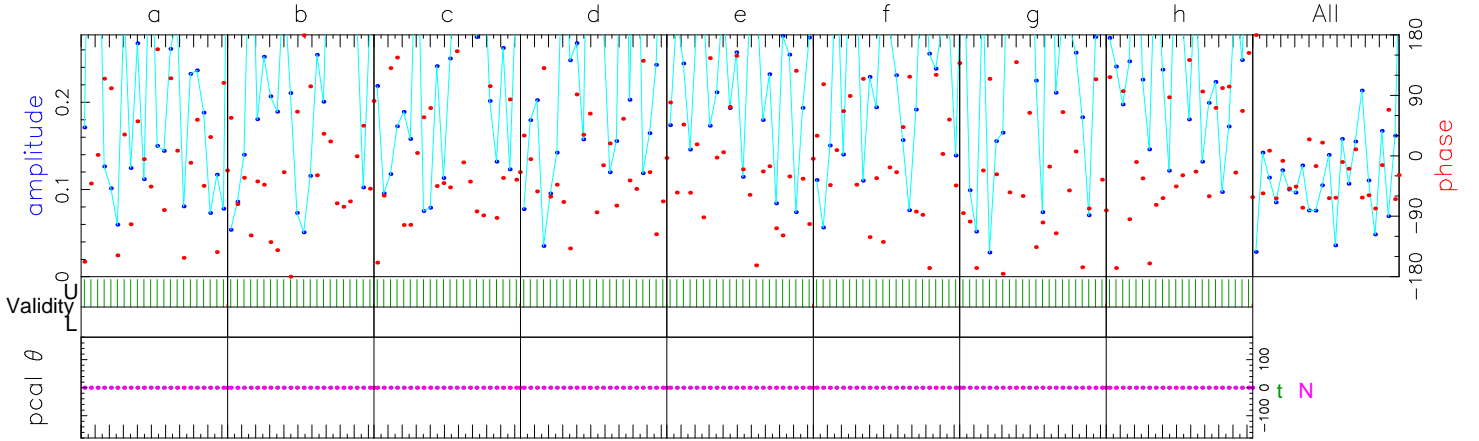
	RMS	Theor.	Amplitude	0.438 +/- 0.015	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	71.3	9.4	Search (4096X32)	0.431	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
amp/seg (%)	100.5	16.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
ph/frq (deg)	42.7	5.5	Inc. seg. avg.	0.781	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011		
amp/frq (%)	26.3	9.6	Inc. frq. avg.	0.528	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

B: az 70.4 el 41.9 pa -54.1 t: az 298.0 el 51.7 pa 88.1 u,v (fr/asec) -10879.146 3650.354 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/Bt..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/Bt.W.94.2L2HSR



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



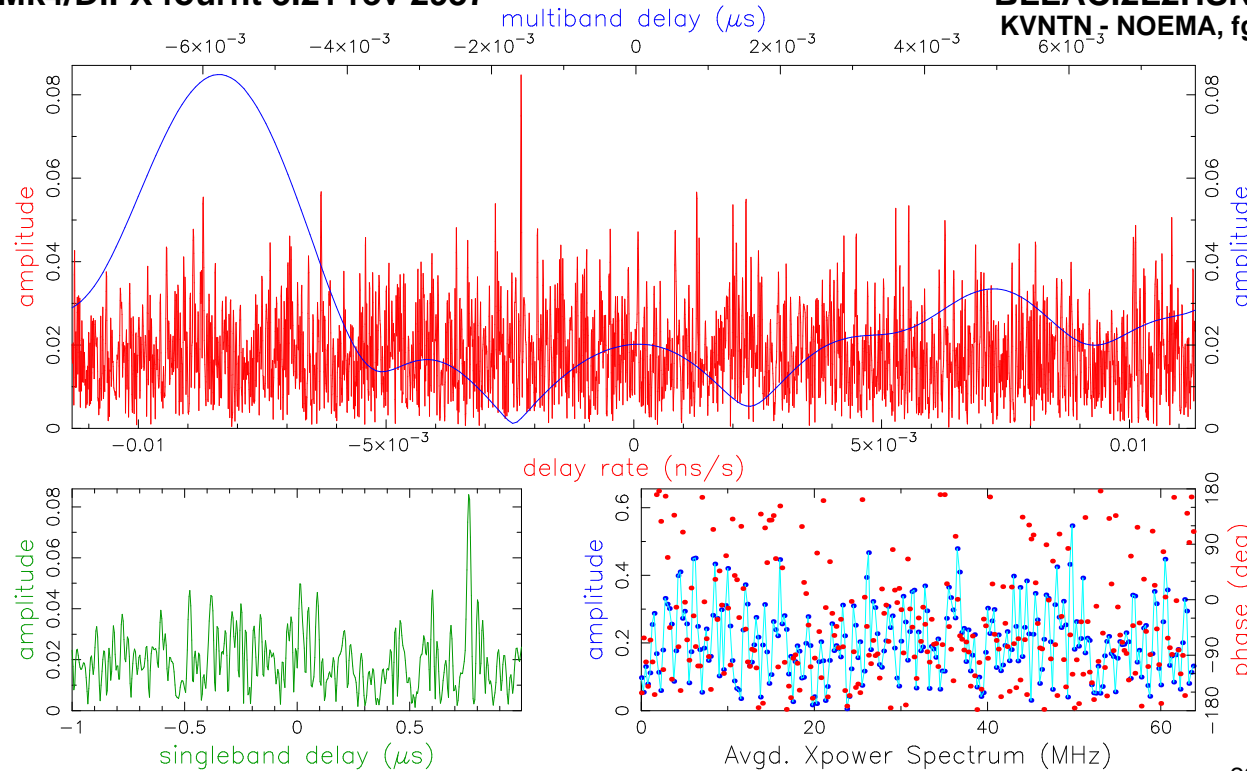
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-4.9	-51.3	-49.6	-27.9	-37.1	-17.2	-41.2	-17.0	Phase	-32.8
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	431.0	175.2	89.5	208.6	179.1	305.8	60.2	215.7	Sbd box	174.7
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
t:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	2.79724295263E+03	Apriori delay (usec)	2.79756712300E+03	Resid mbdelay (usec)	3.95462E-03	+/-	1.8E-04
Sband delay (usec)	2.79724551475E+03	Apriori clock (usec)	1.8541107E+01	Resid sbdelay (usec)	-3.21608E-01	+/-	1.4E-03
Phase delay (usec)	2.79756712194E+03	Apriori clockrate (us/s)	4.5800001E-07	Resid phdelay (usec)	-1.05817E-06	+/-	6.1E-07
Delay rate (us/s)	-1.50050612455E+00	Apriori rate (us/s)	-1.50050368285E+00	Resid rate (us/s)	-2.44170E-06	+/-	1.8E-09
Total phase (deg)	318.4	Apriori accel (us/s/s)	-2.64883556501E-05	Resid phase (deg)	-32.8	+/-	18.9

ph/seg (deg)	49.3	Theor.	45.2	Amplitude	0.092 +/- 0.015	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	57.1		78.9	Search (4096X32)	0.089	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	18.3		26.7	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	27.1		46.6	Inc. seg. avg.	0.087	Sample rate(MISamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.086	Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

t: az 298.0 el 51.7 pa 88.1 N: az 65.2 el 39.0 pa -61.5 u,v (fr/asec) 11554.394 -3125.541 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tN..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tN.W.49.2L2HSR

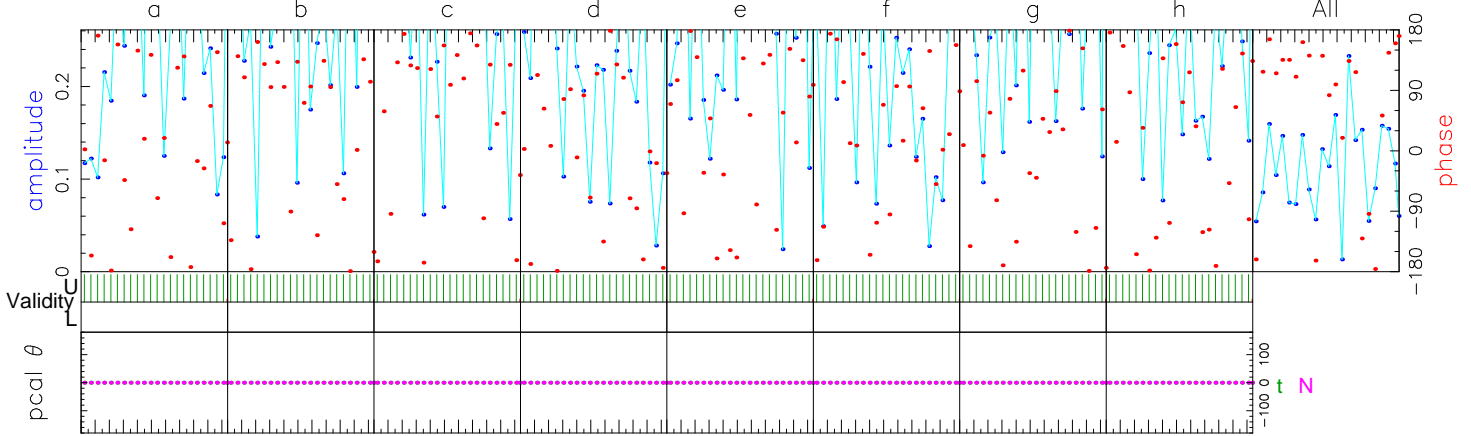


Fringe quality 0

SNR 5.7
Int time 599.979
Amp 0.087
Phase 138.6
PFD 9.9e-01
Delays (us)
SBD 0.763127
MBD -0.005709
Fringe rate (Hz)
-0.196128
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154000.00
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:040:223659
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



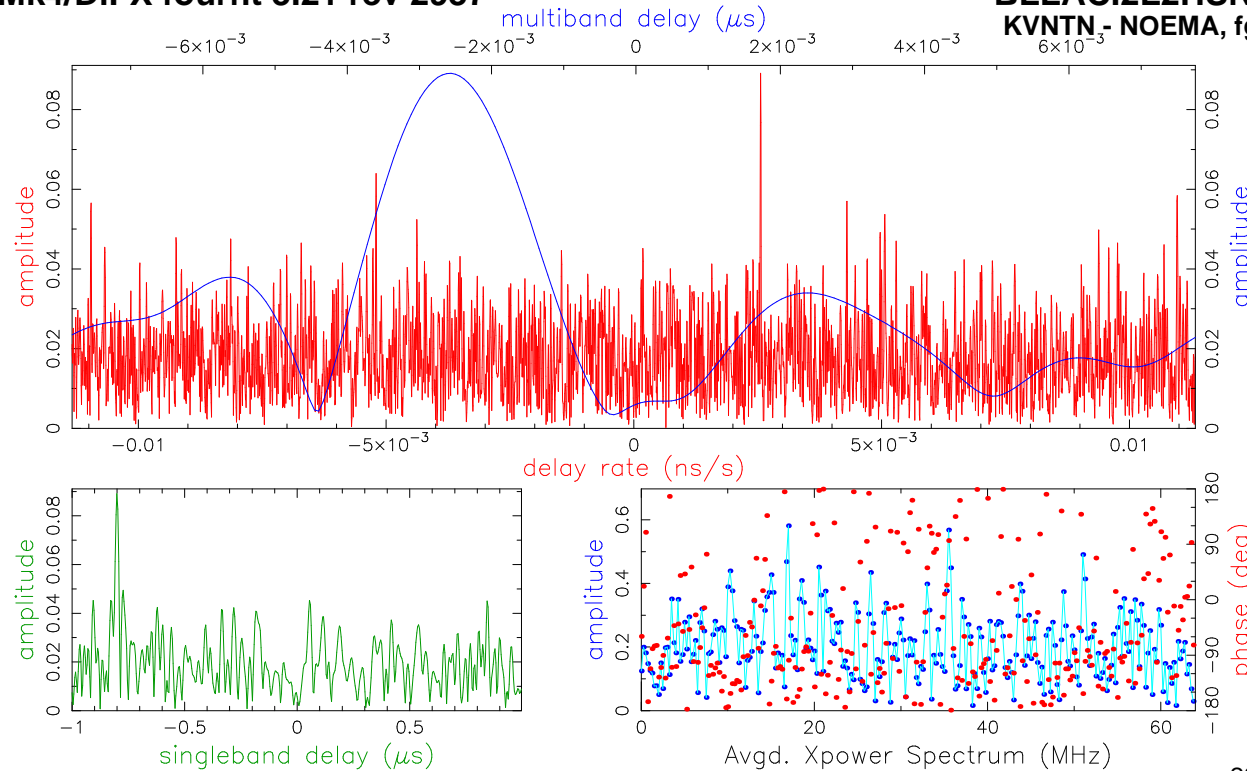
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0		
t	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
t:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	2.79832703898E+03	Apriori delay (usec)	2.79756712300E+03	Resid mbdelay (usec)	-5.70903E-03	+/-	1.9E-04
Sband delay (usec)	2.79833024975E+03	Apriori clock (usec)	1.8541107E+01	Resid sbdelay (usec)	7.63127E-01	+/-	1.5E-03
Phase delay (usec)	2.79756712747E+03	Apriori clockrate (us/s)	4.5800001E-07	Resid phdelay (usec)	4.46901E-06	+/-	6.4E-07
Delay rate (us/s)	-1.50050595970E+00	Apriori rate (us/s)	-1.50050368285E+00	Resid rate (us/s)	-2.27685E-06	+/-	1.9E-09
Total phase (deg)	129.8	Apriori accel (us/s/s)	-2.64883556501E-05	Resid phase (deg)	138.6	+/-	20.0

ph/seg (deg)	53.9	RMS	53.9	Theor.	47.9	Amplitude	0.087 +/- 0.015	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	66.7	Search (4096X32)	0.083	sb window (us)	-1.000	1.000		Pcal rate:	0.000E+00, 0.000E+00 (us/s)	mb window (us)	-0.008 0.008
ph/frq (deg)	31.5	Interp.	0.000	dr window (ns/s)	-0.011	0.011		Bits/sample:	2x2	SampCntNorm: enabled	
amp/frq (%)	53.7	Inc. seg. avg.	0.086	ion window (TEC)	0.00	0.00		Sample rate (MSamp/s):	128	nlags: 256	t_cohere infinite
		Inc. frq. avg.	0.081					Data rate (Mb/s):	2048		

t: az 298.0 el 51.7 pa 88.1 N: az 65.2 el 39.0 pa -61.5 u,v (fr/asec) 11554.394 -3125.541 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tN...2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tN.W.78.2L2HSR

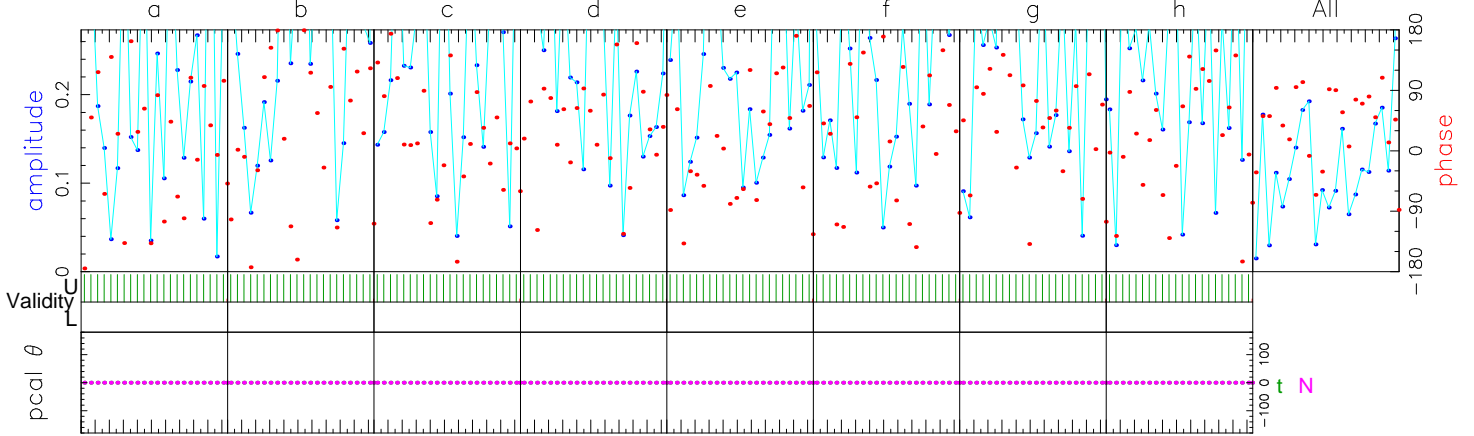


Fringe quality 0

SNR 6.0
Int time 599.979
Amp 0.091
Phase 56.2
PFD 7.0e-01
Delays (us)
SBD -0.800391
MBD -0.002582
Fringe rate (Hz) 0.220793
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154000.00
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:040:223707
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



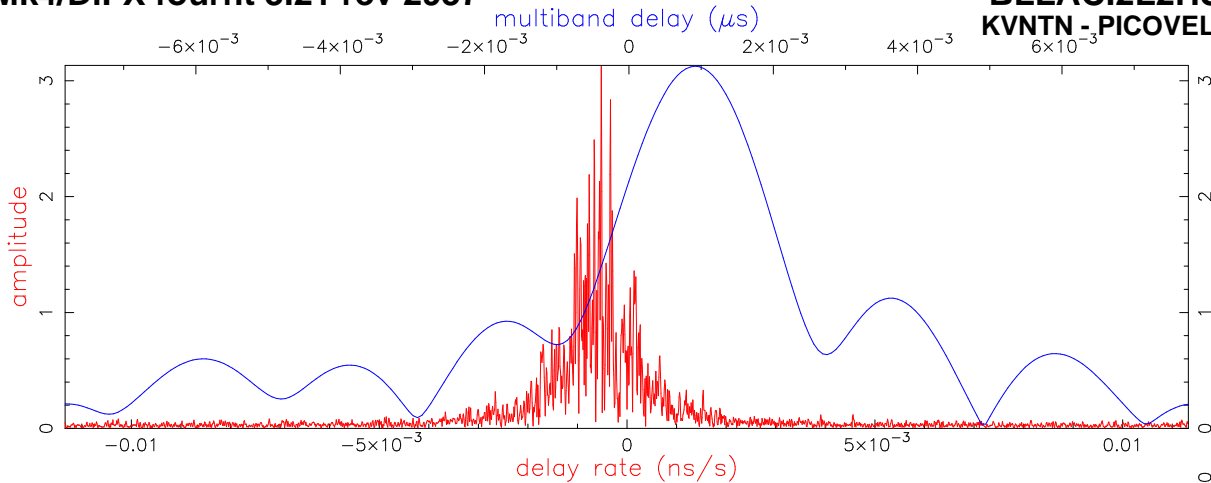
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	59.7	95.9	24.8	53.5	51.7	72.0	72.3	38.5	Phase	56.2
	0.1	0.1	0.1	0.2	0.1	0.0	0.2	0.1	Ampl.	0.1
	400.8	362.4	326.2	112.4	396.0	71.7	105.3	376.7	Sbd box	52.1
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
t:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	2.79676766608E+03	Apriori delay (usec)	2.79756712300E+03	Resid mbdelay (usec)	-2.58192E-03	+/-	1.8E-04
Sband delay (usec)	2.79676673225E+03	Apriori clock (usec)	1.8541107E+01	Resid sbdelay (usec)	-8.00391E-01	+/-	1.4E-03
Phase delay (usec)	2.79756712481E+03	Apriori clockrate (us/s)	4.5800001E-07	Resid phdelay (usec)	1.81162E-06	+/-	6.2E-07
Delay rate (us/s)	-1.50050111966E+00	Apriori rate (us/s)	-1.50050368285E+00	Resid rate (us/s)	2.56319E-06	+/-	1.8E-09
Total phase (deg)	47.4	Apriori accel (us/s/s)	-2.64883556501E-05	Resid phase (deg)	56.2	+/-	19.2

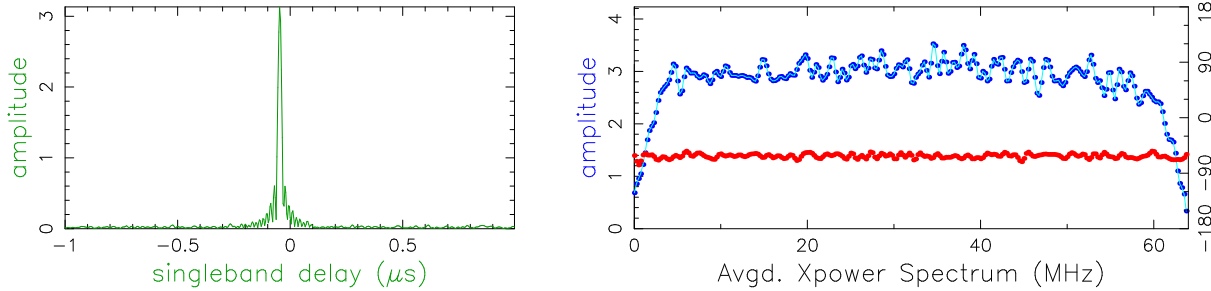
ph/seg (deg)	49.6	RMS	46.0	Theor.	46.0	Amplitude	0.091 +/- 0.015	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	80.8	Search (4096X32)	0.088	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000			
ph/frq (deg)	23.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008		
amp/frq (%)	45.5	Inc. seg. avg.	0.092	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011	0.011			
		Inc. frq. avg.	0.087	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00	

t: az 298.0 el 51.7 pa 88.1 N: az 65.2 el 39.0 pa -61.5 u,v (fr/asec) 11554.394 -3125.541 simultaneous interpolator

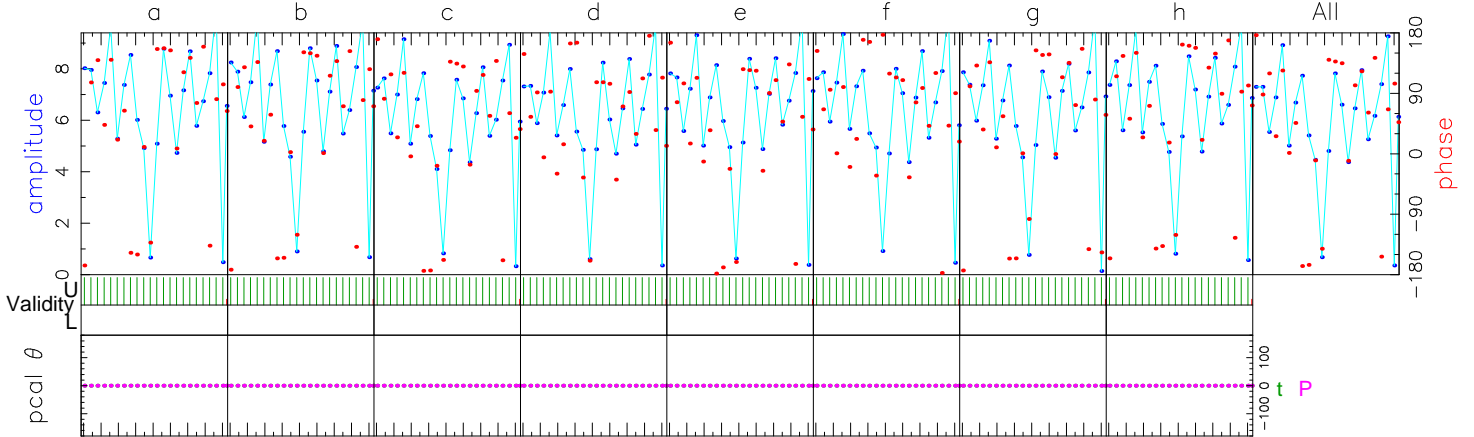
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tN..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tN.W.98.2L2HSR



Fringe quality 4
SNR 189.3
Int time 488.892
Amp 3.133
Phase 113.5
PFD 0.0e+00
Delays (us)
SBD -0.046330
MBD 0.000922
Fringe rate (Hz)
-0.045197
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154151.11
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:040:223600
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"



Amp. and Phase vs. time for each freq., 23 segs, 43 APs / seg (22.02 sec / seg.), time ticks 30 sec

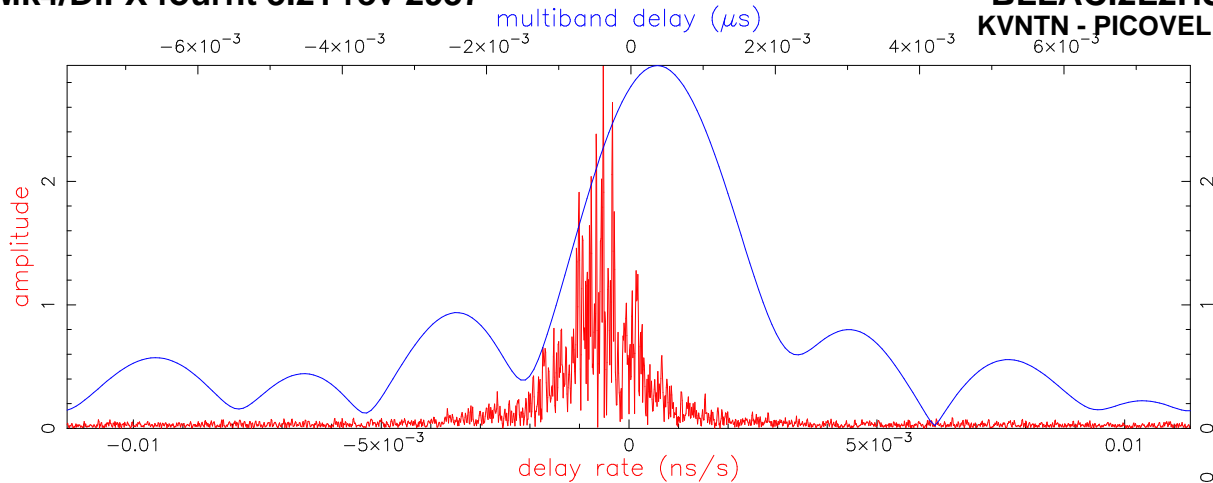


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	131.0	126.7	108.9	82.1	101.9	88.8	126.0	138.0	Phase	113.5
	3.4	3.5	3.2	3.1	3.3	3.4	3.2	3.4	Ampl.	3.3
	245.2	245.1	244.7	245.1	245.1	245.2	245.6	245.3	Sbd box	245.1
U/L	955/0	955/0	955/0	955/0	955/0	955/0	955/0	955/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
t:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

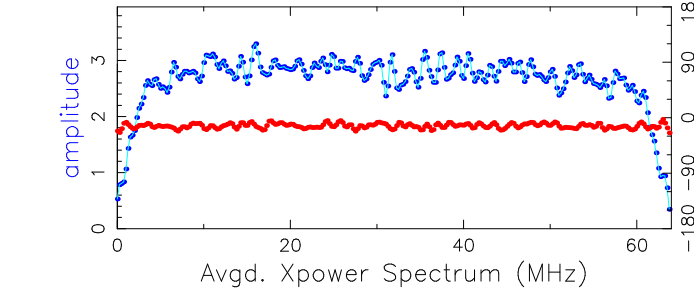
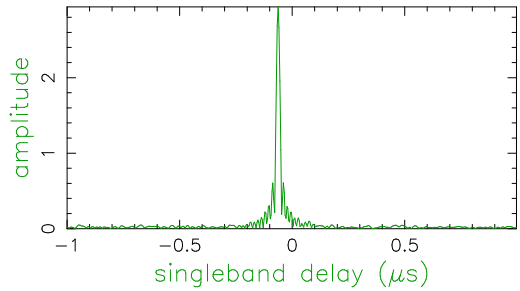
Group delay (usec)(sbd)	5.75435299074E+03	Apriori delay (usec)	5.75439894424E+03	Resid mbdelay (usec)	9.21504E-04	+/-	5.7E-06
Sband delay (usec)	5.75435261399E+03	Apriori clock (usec)	6.4204445E+00	Resid sbdelay (usec)	-4.63303E-02	+/-	4.6E-05
Phase delay (usec)	5.75439894790E+03	Apriori clockrate (us/s)	6.6789998E-07	Resid phdelay (usec)	3.65948E-02	+/-	2.0E-08
Delay rate (us/s)	-1.63015397419E+00	Apriori rate (us/s)	-1.63015344950E+00	Resid rate (us/s)	-5.24690E-07	+/-	6.9E-11
Total phase (deg)	134.0	Apriori accel (us/s/s)	-3.46783212057E-05	Resid phase (deg)	113.5	+/-	0.6

ph/seg (deg)	RMS 67.7	Theor. 1.5	Amplitude Search (2048X32)	3.133 +/- 0.017	2.888	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	115.5	2.5	Interp.	0.000	2.888	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
ph/frq (deg)	22.3	0.9	Inc. seg. avg.	6.024	2.888	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
amp/frq (%)	7.0	1.5	Inc. frq. avg.	3.313	2.888	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011		
					2.888	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

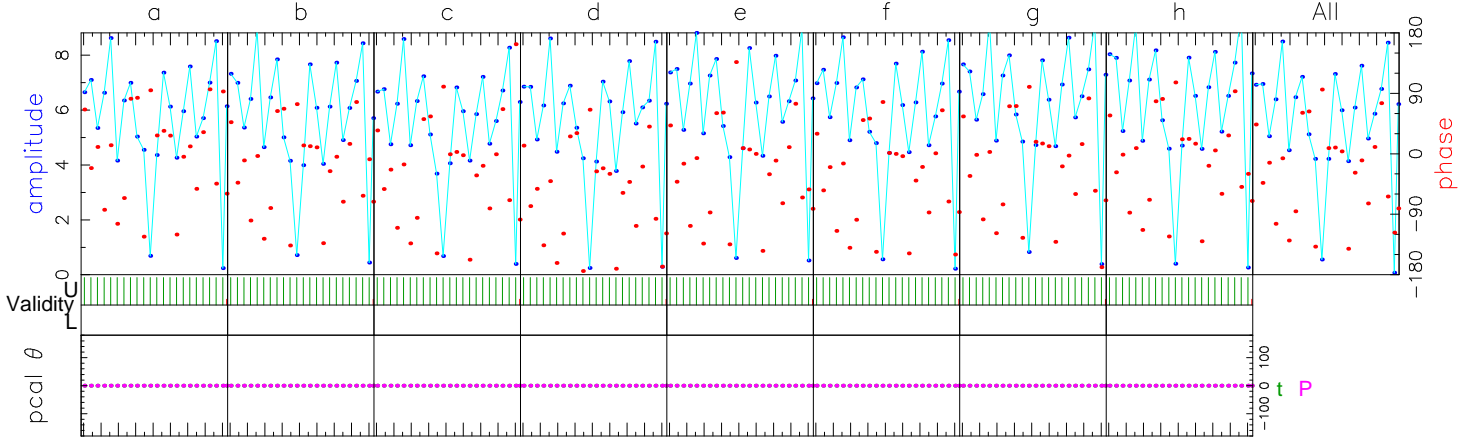
t: az 298.0 el 51.7 pa 88.1 P: az 56.9 el 29.2 pa -65.5 u,v (fr/asec) 12536.993 -3077.842 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tP..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tP.W.1.2L2HSR



Fringe quality 4
SNR 177.5
Int time 488.892
Amp 2.939
Phase -18.2
PFD 0.0e+00
Delays (us)
SBD -0.062583
MBD 0.000366
Fringe rate (Hz)
-0.045213
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154151.11
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:040:223603
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

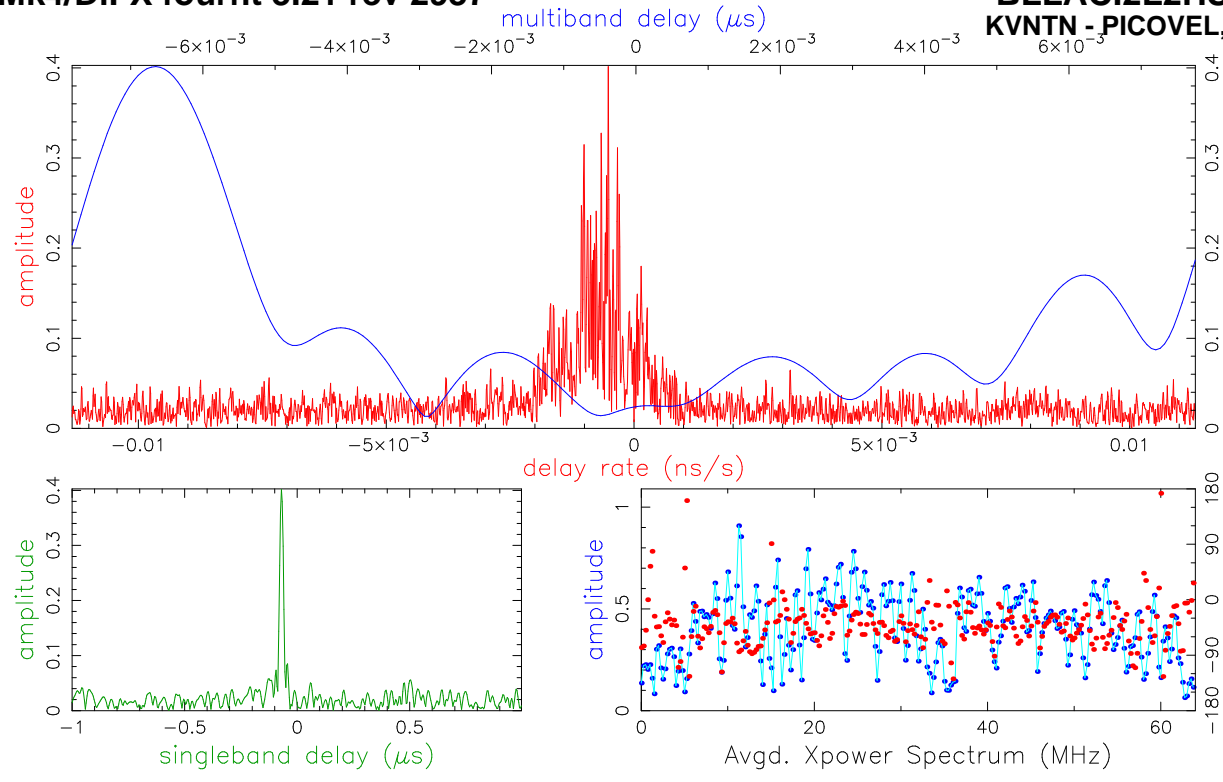


Amp. and Phase vs. time for each freq., 23 segs, 43 APs / seg (22.02 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	3.7	-13.3	-25.6	-51.7	-20.0	-29.1	-9.3	-3.9	Phase	-18.2
	2.9	3.0	2.8	3.0	3.2	3.0	3.3	3.2	Ampl.	3.1
	240.9	240.9	240.6	241.0	241.2	240.8	241.2	241.2	Sbd box	241.0
U/L	955/0	955/0	955/0	955/0	955/0	955/0	955/0	955/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
t:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
t	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)	5.75433680978E+03		Apriori delay (usec)		5.75439894424E+03		Resid mbdelay (usec)		3.65535E-04	+/- 6.1E-06
Sband delay (usec)	5.75433636074E+03		Apriori clock (usec)		6.4204445E+00		Resid sbdelay (usec)		-6.25835E-02	+/- 4.9E-05
Phase delay (usec)	5.75439894365E+03		Apriori clockrate (us/s)		6.6789998E-07		Resid phdelay (usec)		-5.88177E-07	+/- 2.1E-08
Delay rate (us/s)	-1.63015397438E+00		Apriori rate (us/s)		-1.63015344950E+00		Resid rate (us/s)		-5.24884E-07	+/- 7.4E-11
Total phase (deg)	2.2		Apriori accel (us/s/s)		-3.46783212057E-05		Resid phase (deg)		-18.2	+/- 0.6

ph/seg (deg) 70.9 1.5 Search (2048X32) 2.701 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 115.7 2.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 18.6 0.9 Inc. seg. avg. 5.619 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 6.2 1.6 Inc. frq. avg. 3.055 Data rate (Mbit/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
t: az 298.0 el 51.7 pa 88.1 P: az 56.9 el 29.2 pa -65.5 u,v (fr/asec) 12536.993 -3077.842 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tP..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tP.W.2.2L2HSR

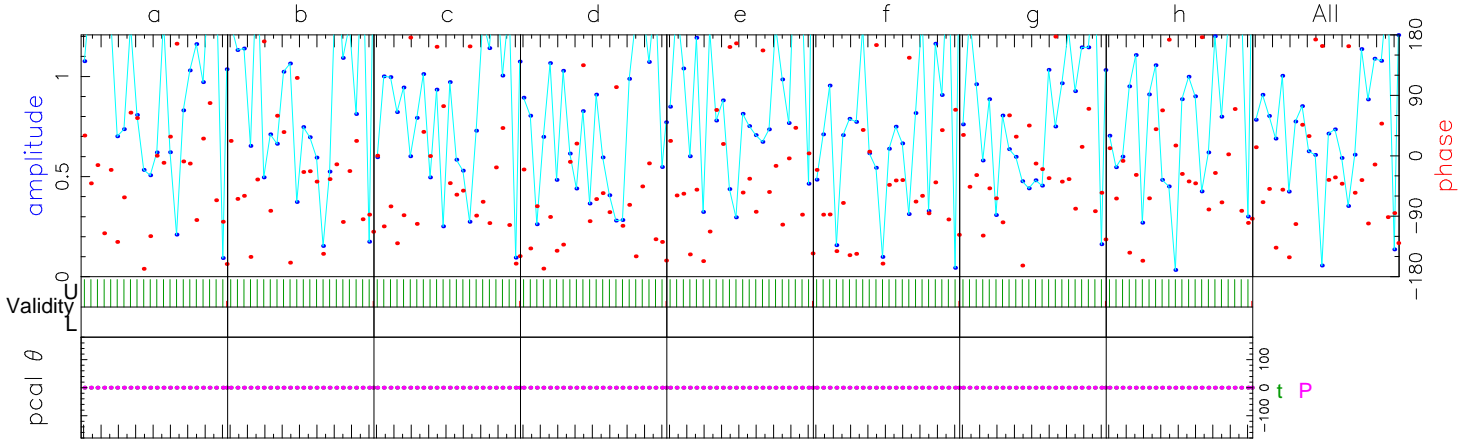


Fringe quality 6

SNR 24.3
Int time 488.892
Amp 0.403
Phase -50.1
PFD 0.0e+00
Delays (us)
SBD -0.069669
MBD -0.006656
Fringe rate (Hz)
-0.045325
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154151.11
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:040:223606
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

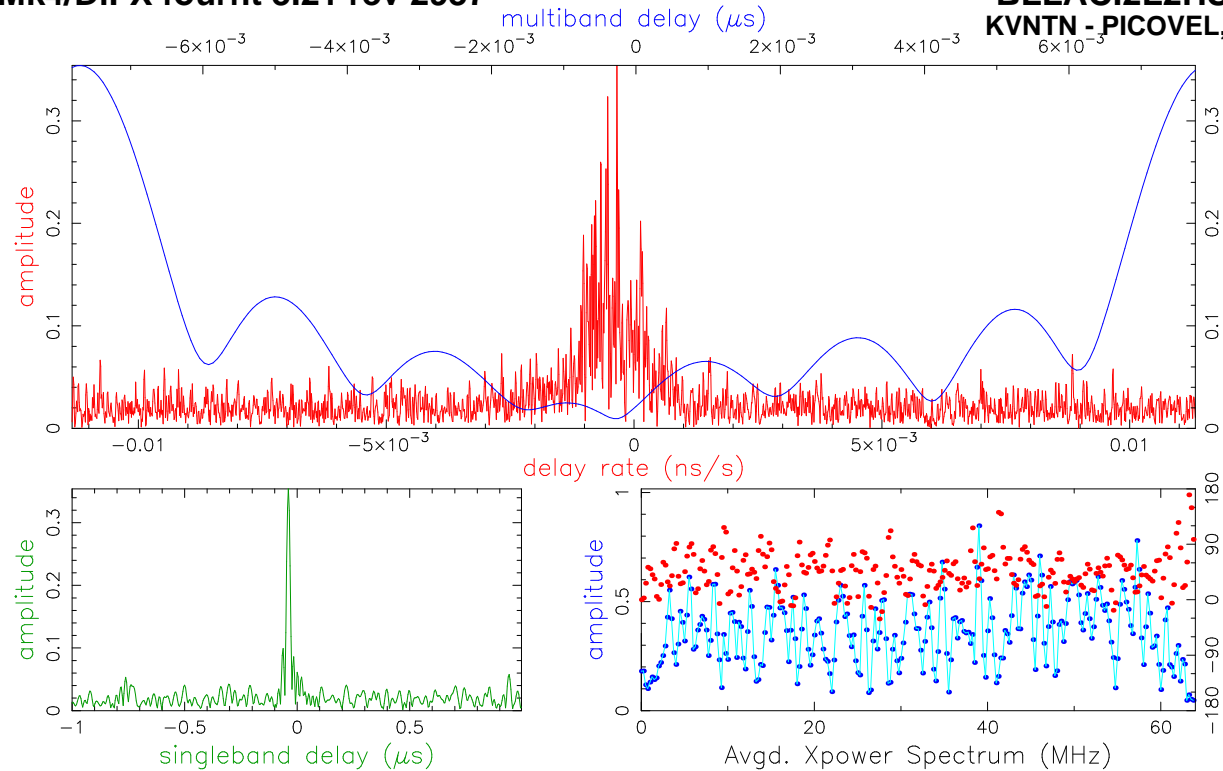
Amp. and Phase vs. time for each freq., 23 segs, 43 APs / seg (22.02 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-19.1	-43.5	-72.2	-93.2	-48.4	-63.0	-35.3	-34.5	Phase	-50.1
	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	Ampl.	0.4
	239.2	239.0	238.6	239.2	239.4	239.0	239.5	239.6	Sbd box	239.2
U/L	955/0	955/0	955/0	955/0	955/0	955/0	955/0	955/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
t:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	5.75432978820E+03		Apriori delay (usec)		5.75439894424E+03		Resid mbdelay (usec)		-6.65604E-03	+/- 4.5E-05
Sband delay (usec)	5.75432927474E+03		Apriori clock (usec)		6.4204445E+00		Resid sbdelay (usec)		-6.96695E-02	+/- 3.5E-04
Phase delay (usec)	5.75439894262E+03		Apriori clockrate (us/s)		6.6789998E-07		Resid phdelay (usec)		-1.61711E-06	+/- 1.5E-07
Delay rate (us/s)	-1.63015397568E+00		Apriori rate (us/s)		-1.63015344950E+00		Resid rate (us/s)		-5.26179E-07	+/- 5.4E-10
Total phase (deg)			Apriori accel (us/s/s)		-3.46783212057E-05		Resid phase (deg)		-50.1	+/- 4.7

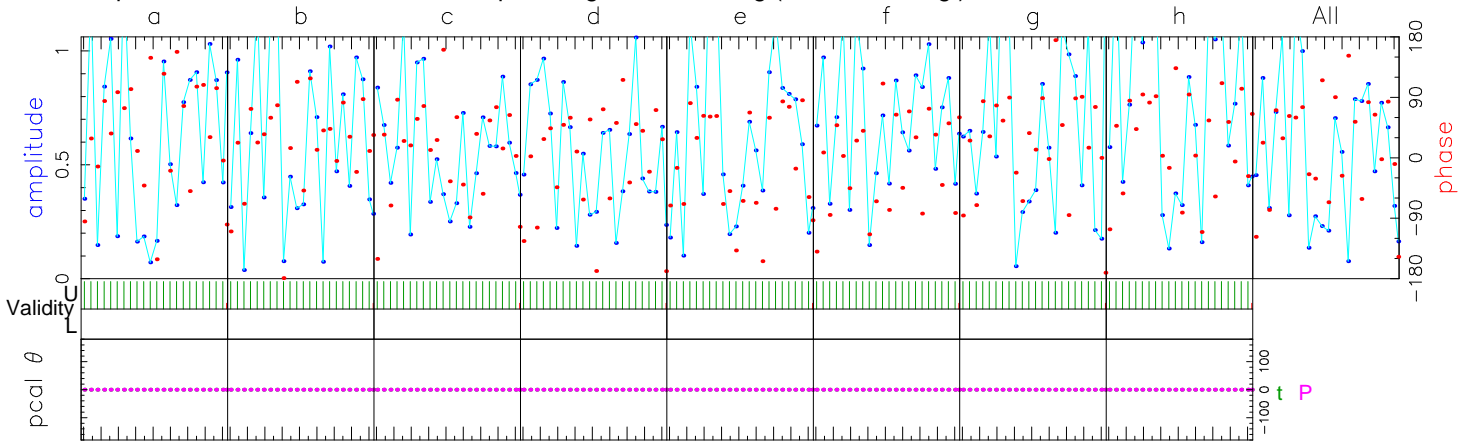
ph/seg (deg) RMS Theor. Amplitude 0.403 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 73.7 11.3 Search (2048X32) 0.350 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 116.0 19.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 25.8 6.7 Inc. seg. avg. 0.732 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 10.0 11.6 Inc. frq. avg. 0.430 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

t: az 298.0 el 51.7 pa 88.1 P: az 56.9 el 29.2 pa -65.5 u,v (fr/asec) 12536.993 -3077.842 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tP..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tP.W.3.2L2HSR



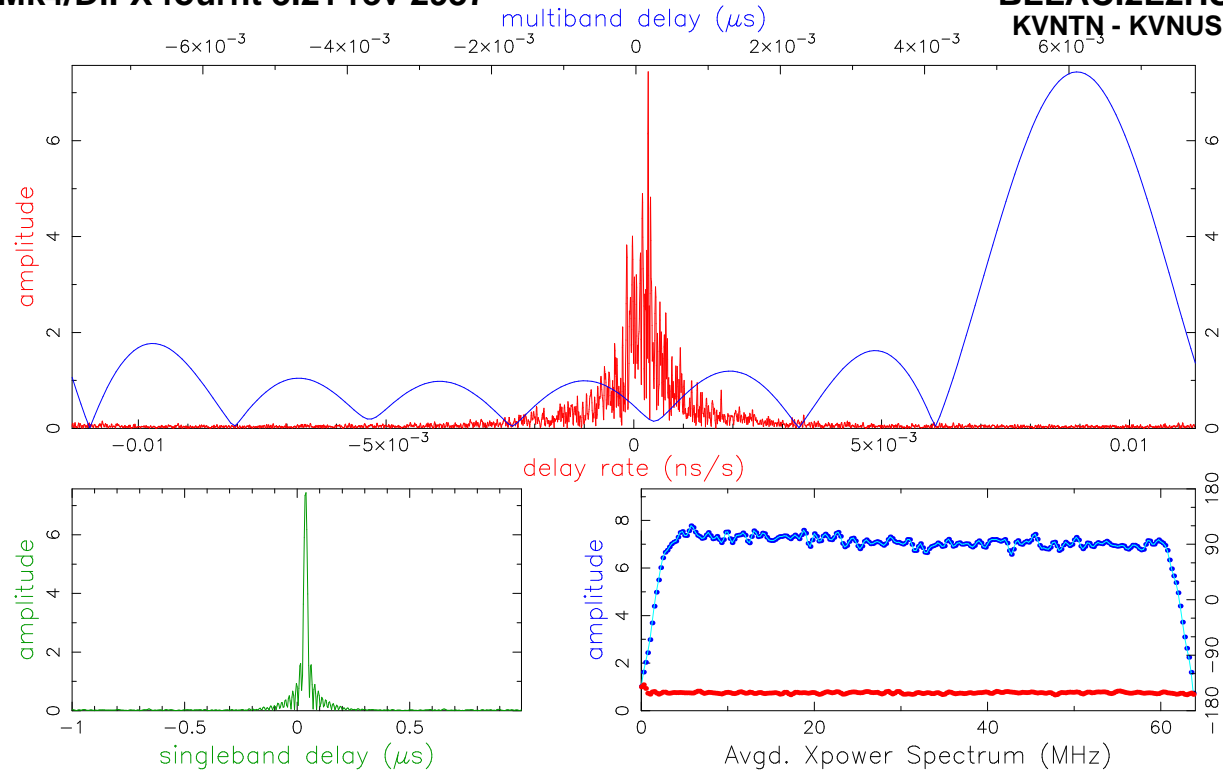
Fringe quality 9
 SNR 21.4
 Int time 488.892
 Amp 0.354
 Phase 41.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.039187
 MBD -0.007705
 Fringe rate (Hz)
 -0.029198
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c222c
 Exper # 16383
 Yr:day 2022:281
 Start 154151.11
 Stop 155000.06
 FRT 154555.00
 Corr/FF/build
 2023:040:205350
 2023:040:223609
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 23 segs, 43 APs / seg (22.02 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
	63.0	45.0	31.2	20.6	37.2	15.4	45.3	61.4	Phase	41.4
	0.3	0.4	0.3	0.3	0.3	0.4	0.4	0.5	Ampl.	0.4
	246.6	246.8	247.1	247.4	246.5	247.3	248.0	246.6	Sbd box	247.0
U/L	955/0	955/0	955/0	955/0	955/0	955/0	955/0	955/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
t:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
t	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)	5.75435998912E+03		Apriori delay (usec)		5.75439894424E+03		Resid mbdelay (usec)		-7.70513E-03	+/- 5.1E-05
Sband delay (usec)	5.75435975774E+03		Apriori clock (usec)		6.4204445E+00		Resid sbdelay (usec)		-3.91865E-02	+/- 4.0E-04
Phase delay (usec)	5.75439894557E+03		Apriori clockrate (us/s)		6.6789998E-07		Resid phdelay (usec)		1.33457E-06	+/- 1.7E-07
Delay rate (us/s)	-1.63015378846E+00		Apriori rate (us/s)		-1.63015344950E+00		Resid rate (us/s)		-3.38960E-07	+/- 6.1E-10
Total phase (deg)			Apriori accel (us/s/s)		-3.46783212057E-05		Resid phase (deg)		41.4	+/- 5.4

ph/seg (deg) RMS Theor. Amplitude 0.354 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.6 12.8 Search (2048X32) 0.328 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 109.8 22.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 18.8 7.6 Inc. seg. avg. 0.563 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 17.7 13.2 Inc. frq. avg. 0.366 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 t: az 298.0 el 51.7 pa 88.1 P: az 56.9 el 29.2 pa -65.5 u,v (fr/asec) 12536.993 -3077.842 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tP..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tP.W.4.2L2HSR

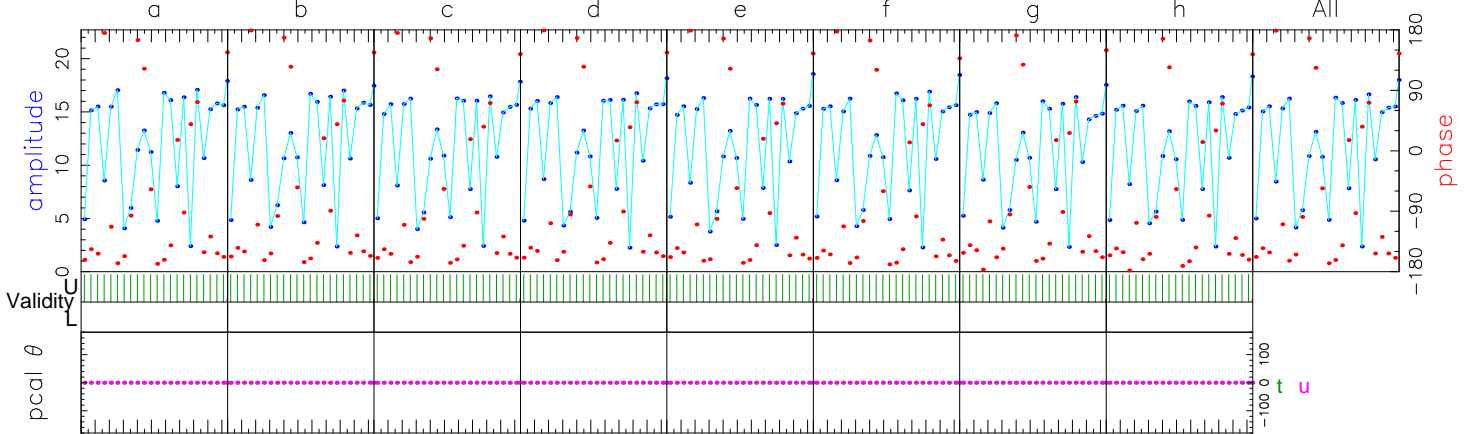


Fringe quality 5

SNR 507.0
Int time 599.979
Amp 7.571
Phase -150.6
PFD 0.0e+00
Delays (us)
SBD 0.037378
MBD 0.006111
Fringe rate (Hz)
0.024826
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

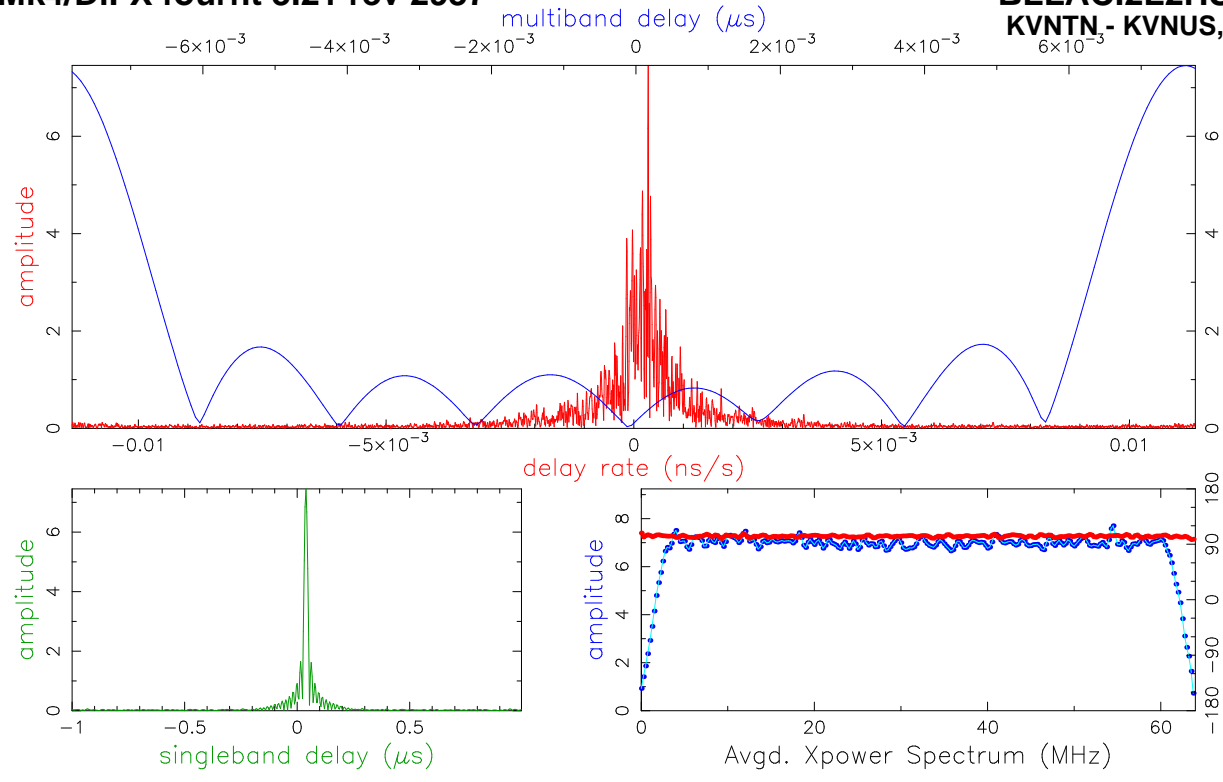
Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154000.00
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:045:103521
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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
	-151.7	-148.7	-151.3	-148.6	-151.4	-154.5	-146.9	-151.2	Phase	-150.6
	7.5	7.5	7.4	7.5	7.4	7.5	7.3	7.4	Ampl.	7.4
	266.6	266.5	266.6	266.6	266.4	266.7	266.6	266.5	Sbd box	266.6
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
u	0	0	0	0	0	0	0	0	PC freqs	
t:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
tu	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
u	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.50474396598E+02					2.50437035203E+02			Resid mbdelay (usec)	6.11140E-03 +/- 2.1E-06
Sband delay (usec)	2.50474412953E+02					4.5705624E+00			Resid sbdelay (usec)	3.73777E-02 +/- 1.7E-05
Phase delay (usec)	2.50437030348E+02					-6.1999993E-08			Resid phdelay (usec)	-4.85513E-06 +/- 7.3E-09
Delay rate (us/s)	9.50866282243E-03					9.50837461697E-03			Resid rate (us/s)	2.88205E-07 +/- 2.1E-11
Total phase (deg)			-74.1			-3.77484202594E-06			Resid phase (deg)	-150.6 +/- 0.2

RMS Theor. Amplitude 7.571 +/- 0.015
 ph/seg (deg) 69.1 0.5 Search (4096X32) 7.320 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 82.6 0.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 2.5 0.3 Inc. seg. avg. 11.708 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 2.0 0.6 Inc. frq. avg. 7.444 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 t: az 298.0 el 51.7 pa 88.1 u: az 295.8 el 50.7 pa 81.9 u,v (fr/asec) -84.757 -481.429 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tu..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tu.W.141.2L2HSR

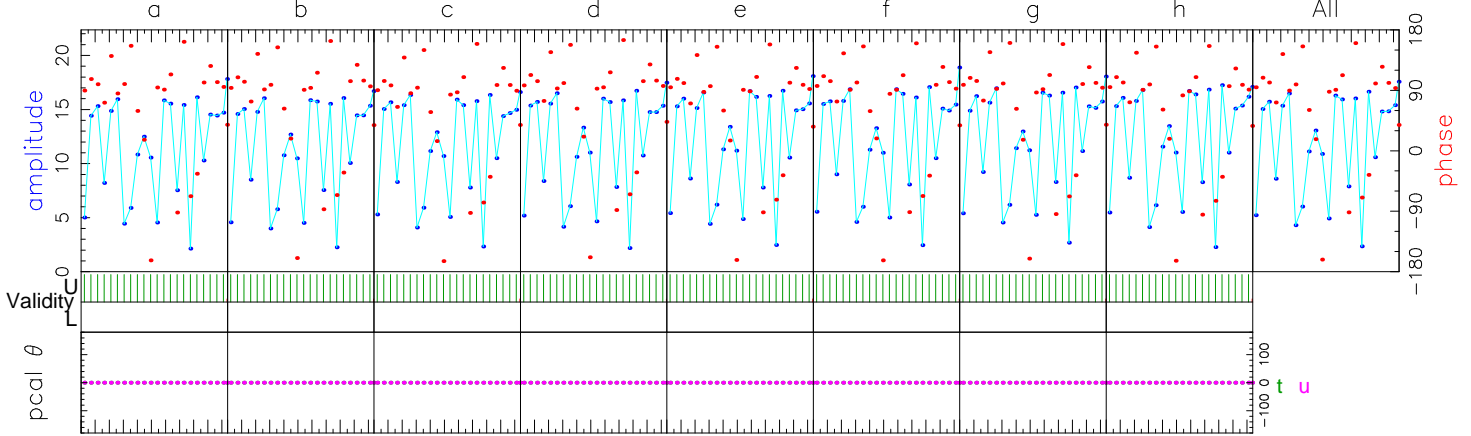


Fringe quality 5

SNR 499.3
Int time 599.979
Amp 7.456
Phase 102.7
PFD 0.0e+00
Delays (us)
SBD 0.038823
MBD 0.007613
Fringe rate (Hz)
0.024827
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154000.00
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:045:103527
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
	102.3	104.5	98.9	106.0	101.0	103.1	103.9	101.7	Phase	102.7
	7.2	7.2	7.3	7.4	7.6	7.6	7.6	7.7	Ampl.	7.5
	266.9	266.9	266.9	267.1	266.9	267.0	267.0	266.9	Sbd box	266.9
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
u	0	0	0	0	0	0	0	0	PC freqs	
t:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
tu	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
u	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.50475898629E+02		Apriori delay (usec)		2.50437035203E+02		Resid mbdelay (usec)		7.61343E-03	+/- 2.2E-06
Sband delay (usec)	2.50475858203E+02		Apriori clock (usec)		4.5705624E+00		Resid sbdelay (usec)		3.88230E-02	+/- 1.7E-05
Phase delay (usec)	2.50437038514E+02		Apriori clockrate (us/s)		-6.1999993E-08		Resid phdelay (usec)		3.31063E-06	+/- 7.4E-09
Delay rate (us/s)	9.50866283518E-03		Apriori rate (us/s)		9.50837461697E-03		Resid rate (us/s)		2.88218E-07	+/- 2.1E-11
Total phase (deg)	179.1		Apriori accel (us/s/s)		-3.77484202594E-06		Resid phase (deg)		102.7	+/- 0.2

ph/seg (deg) 68.9 0.6
amp/seg (%) 84.6 1.0
ph/frq (deg) 2.4 0.3
amp/frq (%) 2.4 0.6

RMS Theor. Amplitude 7.456 +/- 0.015
Search (4096X32) 7.294
Interp. 0.000
Inc. seg. avg. 11.738
Inc. frq. avg. 7.458

Group delay (usec)(sbd) 2.50475898629E+02
Sband delay (usec) 2.50475858203E+02
Phase delay (usec) 2.50437038514E+02
Delay rate (us/s) 9.50866283518E-03
Total phase (deg) 179.1

Apriori delay (usec) 2.50437035203E+02
Apriori clock (usec) 4.5705624E+00
Apriori clockrate (us/s) -6.1999993E-08
Apriori rate (us/s) 9.50837461697E-03
Apriori accel (us/s/s) -3.77484202594E-06

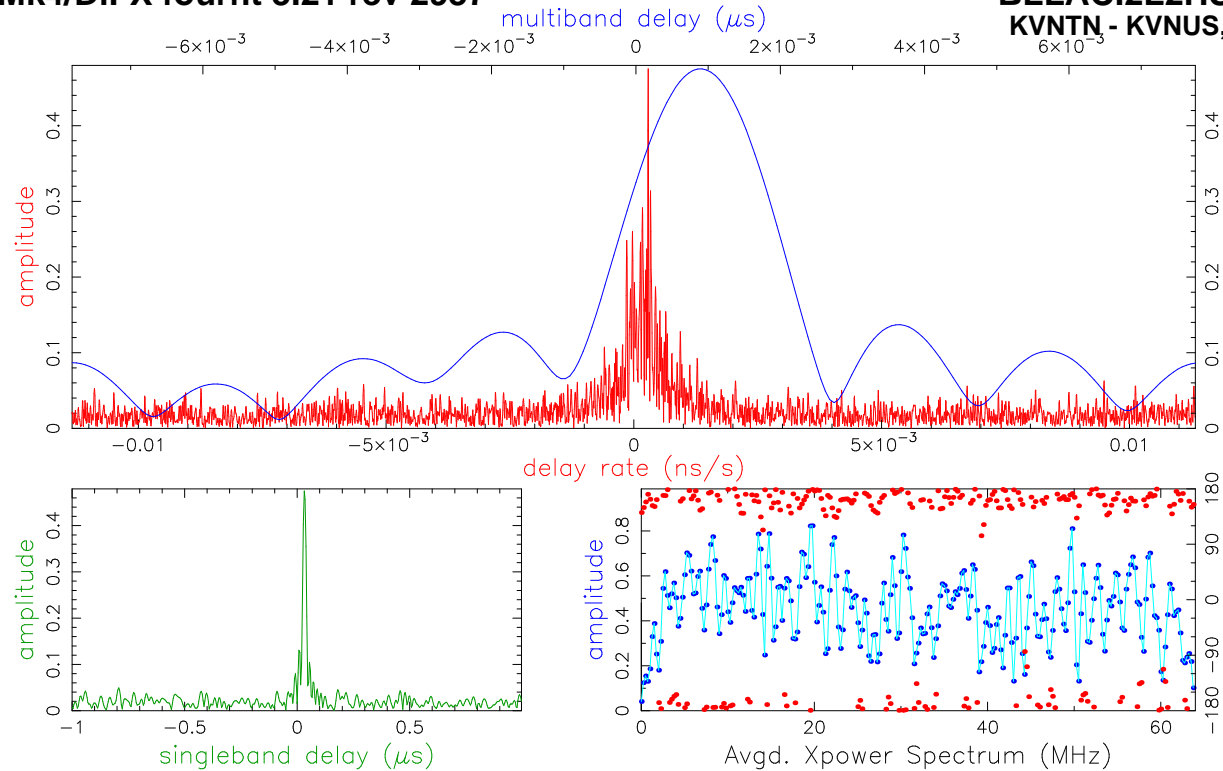
Resid mbdelay (usec) 7.61343E-03
Resid sbdelay (usec) 3.88230E-02
Resid phdelay (usec) 3.31063E-06
Resid rate (us/s) 2.88218E-07
Resid phase (deg) 102.7

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

t: az 298.0 el 51.7 pa 88.1
u: az 295.8 el 50.7 pa 81.9
u,v (fr/asec) -84.757 -481.429

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tu..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tu.W.142.2L2HSR simultaneous interpolator

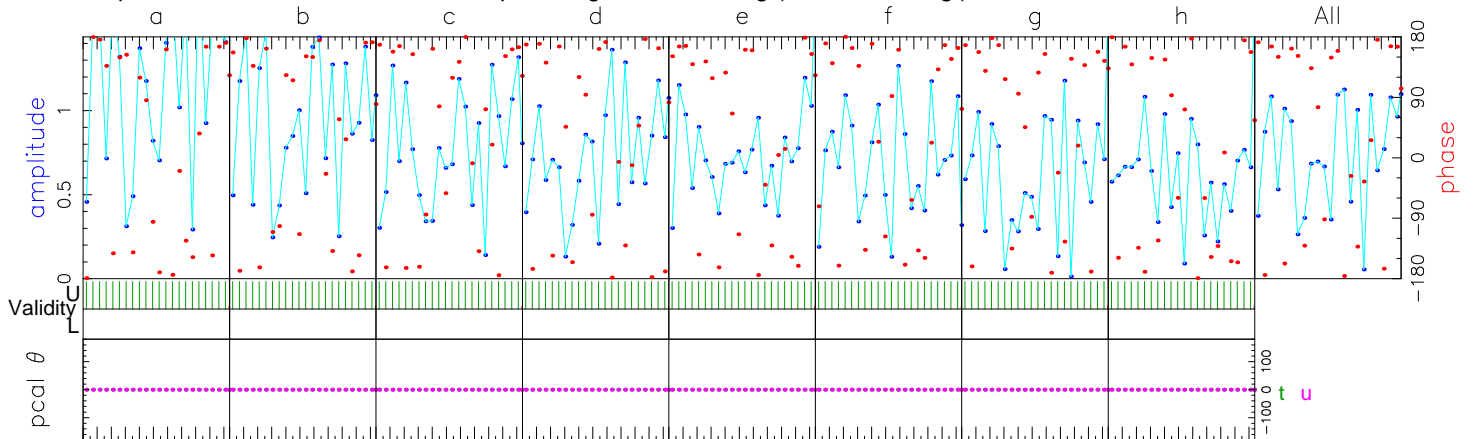


Fringe quality 6

SNR 32.1
Int time 599.979
Amp 0.480
Phase 173.3
PFD 0.0e+00
Delays (us)
SBD 0.032448
MBD 0.000894
Fringe rate (Hz) 0.024818
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

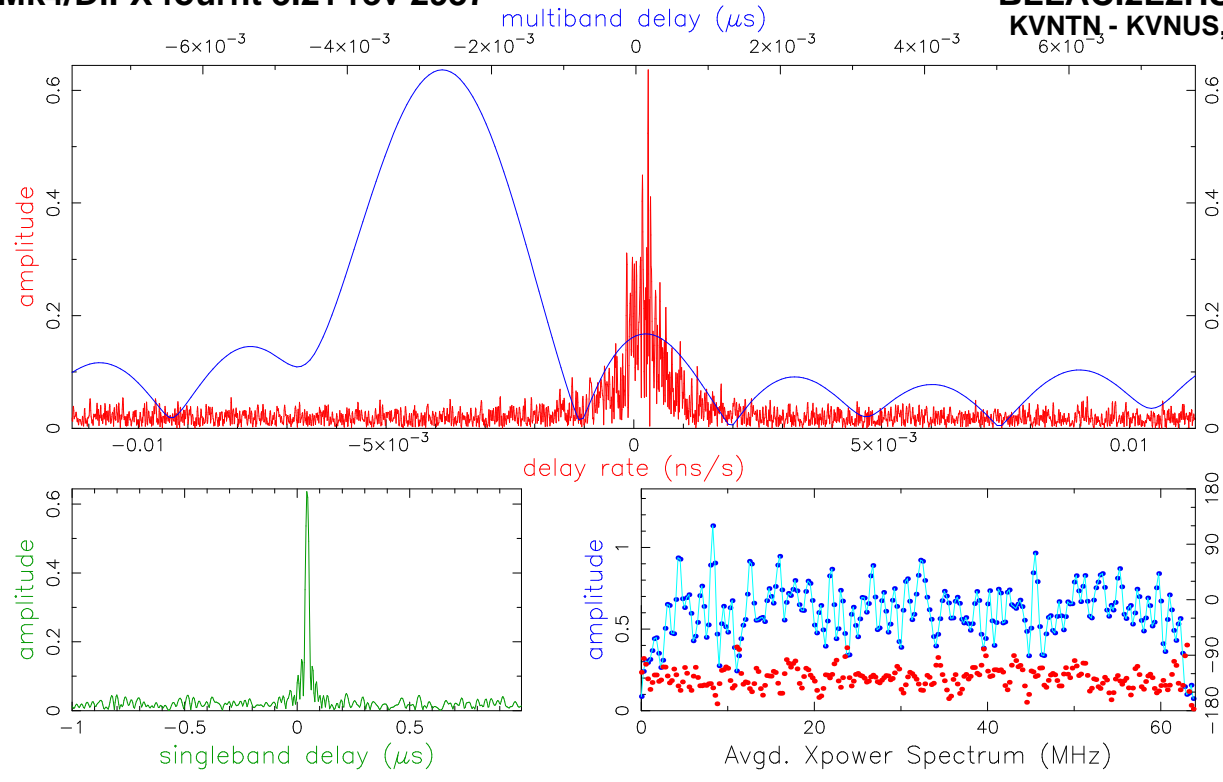
Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154000.00
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:045:103533
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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
	175.7	176.9	165.0	175.4	170.7	169.4	168.1	-176.6	Phase	173.3
	0.7	0.6	0.5	0.4	0.5	0.4	0.4	0.4	Ampl.	0.5
	265.2	265.1	265.1	265.3	265.6	265.4	265.6	265.3	Sbd box	265.3
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
u	0	0	0	0	0	0	0	0	PC freqs	
t:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
tu	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
u	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.50469178723E+02		Apriori delay (usec)		2.50437035203E+02		Resid mbdelay (usec)		8.93520E-04	+/- 3.4E-05
Sband delay (usec)	2.50469482953E+02		Apriori clock (usec)		4.5705624E+00		Resid sbdelay (usec)		3.24478E-02	+/- 2.7E-04
Phase delay (usec)	2.50437040793E+02		Apriori clockrate (us/s)		-6.1999993E-08		Resid phdelay (usec)		5.59004E-06	+/- 1.2E-07
Delay rate (us/s)	9.50866273457E-03		Apriori rate (us/s)		9.50837461697E-03		Resid rate (us/s)		2.88118E-07	+/- 3.3E-10
Total phase (deg)	249.8		Apriori accel (us/s/s)		-3.77484202594E-06		Resid phase (deg)		173.3	+/- 3.6

ph/seg (deg) 67.5 8.6 Amplitude 0.480 +/- 0.015 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 84.2 14.9 Search (4096X32) 0.465 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 6.4 5.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 21.6 8.8 Inc. seg. avg. 0.727 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 t: az 298.0 el 51.7 pa 88.1 u: az 295.8 el 50.7 pa 81.9 u,v (fr/asec) -84.757 -481.429 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tu..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tu.W.143.2L2HSR simultaneous interpolator

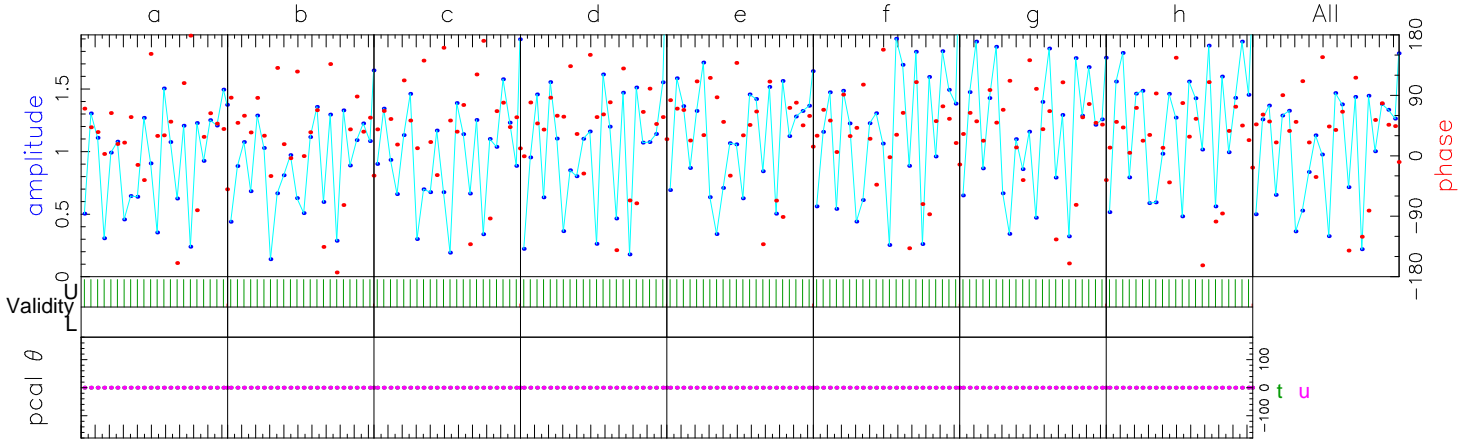


Fringe quality 7

SNR 43.1
Int time 599.979
Amp 0.644
Phase 54.2
PFD 0.0e+00
Delays (us)
SBD 0.044370
MBD -0.002675
Fringe rate (Hz) 0.024825
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154000.00
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:045:103540
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

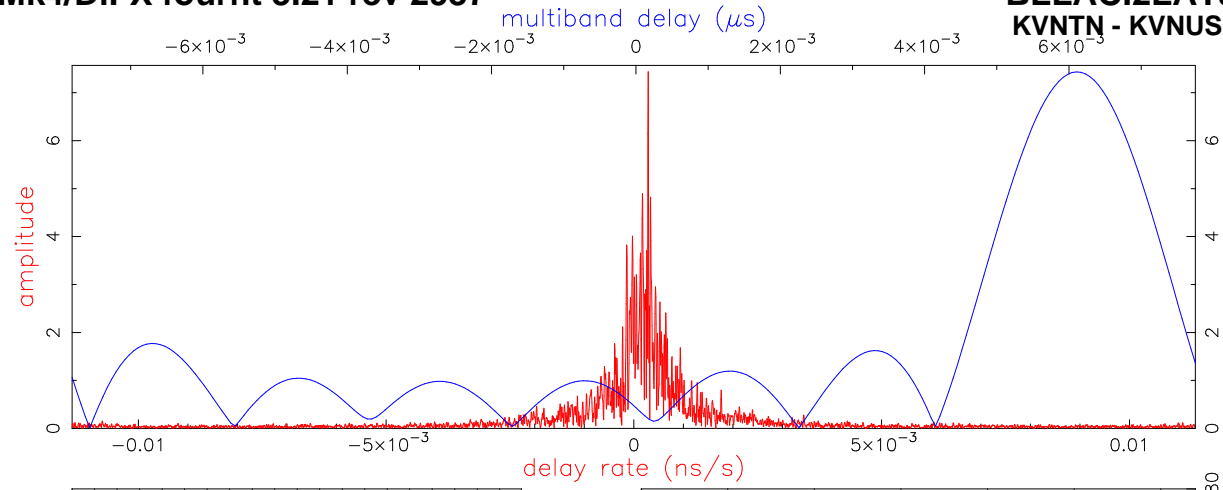


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	39.0	54.3	61.6	67.3	62.8	49.6	56.8	42.6	Phase	54.2
	0.6	0.5	0.6	0.6	0.7	0.7	0.8	0.7	Ampl.	0.6
	268.3	268.2	268.3	268.5	268.4	268.6	268.1	268.3	Sbd box	268.4
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
u	0	0	0	0	0	0	0	0	PC freqs	
t:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
tu	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
u	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.5048123491E+02		Apriori delay (usec)		2.50437035203E+02		Resid mbdelay (usec)		-2.67529E-03	+/- 2.5E-05
Sband delay (usec)	2.50481404703E+02		Apriori clock (usec)		4.5705624E+00		Resid sbdelay (usec)		4.43695E-02	+/- 2.0E-04
Phase delay (usec)	2.50437036950E+02		Apriori clockrate (us/s)		-6.1999993E-08		Resid phdelay (usec)		1.74705E-06	+/- 8.6E-08
Delay rate (us/s)	9.50866281641E-03		Apriori rate (us/s)		9.50837461697E-03		Resid rate (us/s)		2.88199E-07	+/- 2.5E-10
Total phase (deg)	130.6		Apriori accel (us/s/s)		-3.77484202594E-06		Resid phase (deg)		54.2	+/- 2.7

ph/seg (deg) 68.9 6.4 Search (4096X32) 0.627 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 85.6 11.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 10.8 3.8 Inc. seg. avg. 1.007 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 11.2 6.6 Inc. frq. avg. 0.643 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
t: az 298.0 el 51.7 pa 88.1 u: az 295.8 el 50.7 pa 81.9 u,v (fr/asec) -84.757 -481.429 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tu..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tu.W.144.2L2HSR

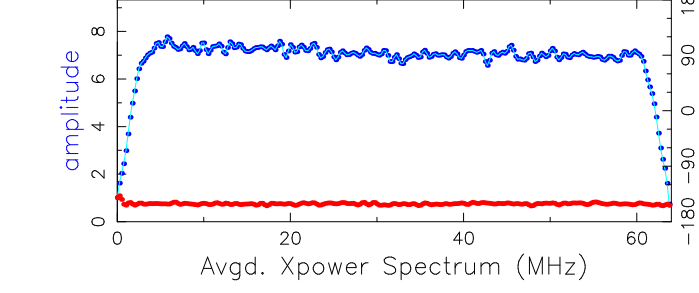
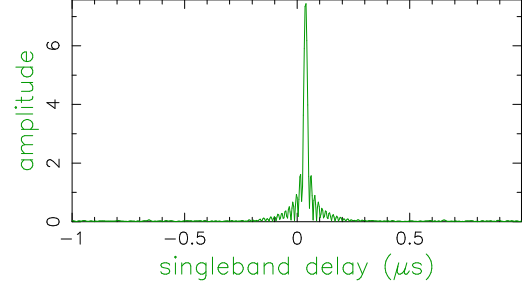
Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2LATJ8, No0005, tu
KVNTN - KVNUS, fgroup W, pol LL



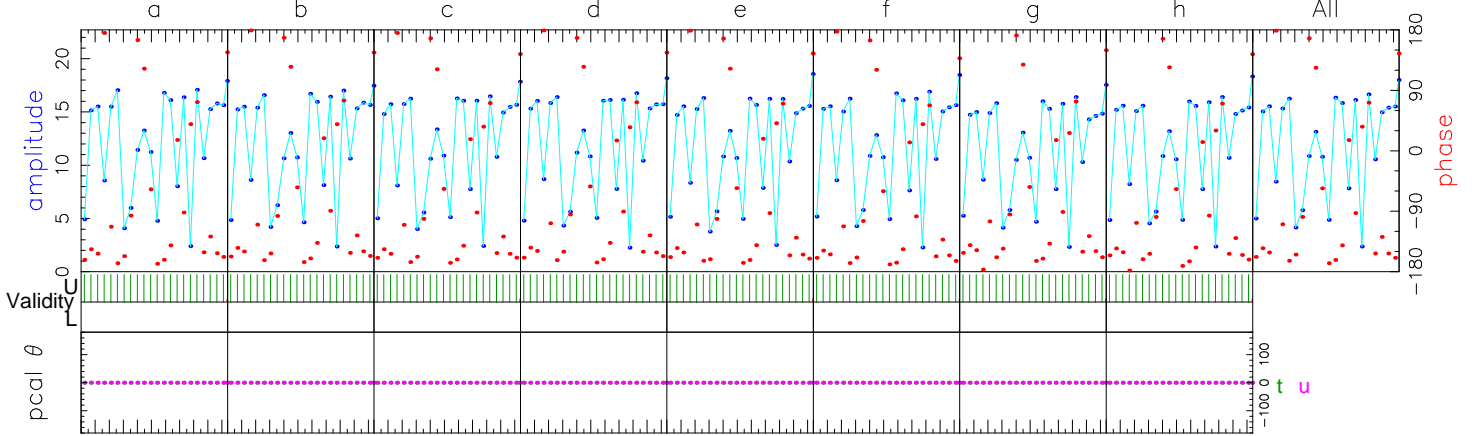
Fringe quality 5

SNR 507.0
Int time 599.979
Amp 7.571
Phase -150.6
PFD 0.0e+00
Delays (us)
SBD 0.037378
MBD 0.006111
Fringe rate (Hz)
0.024826
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154000.00
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:045:103546
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
	-151.7	-148.7	-151.3	-148.6	-151.4	-154.5	-146.9	-151.2	Phase	-150.6
	7.5	7.5	7.4	7.5	7.4	7.5	7.3	7.4	Ampl.	7.4
	266.6	266.5	266.6	266.6	266.4	266.7	266.6	266.5	Sbd box	266.6
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
u	0	0	0	0	0	0	0	0	PC freqs	
t:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
tu	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
u	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

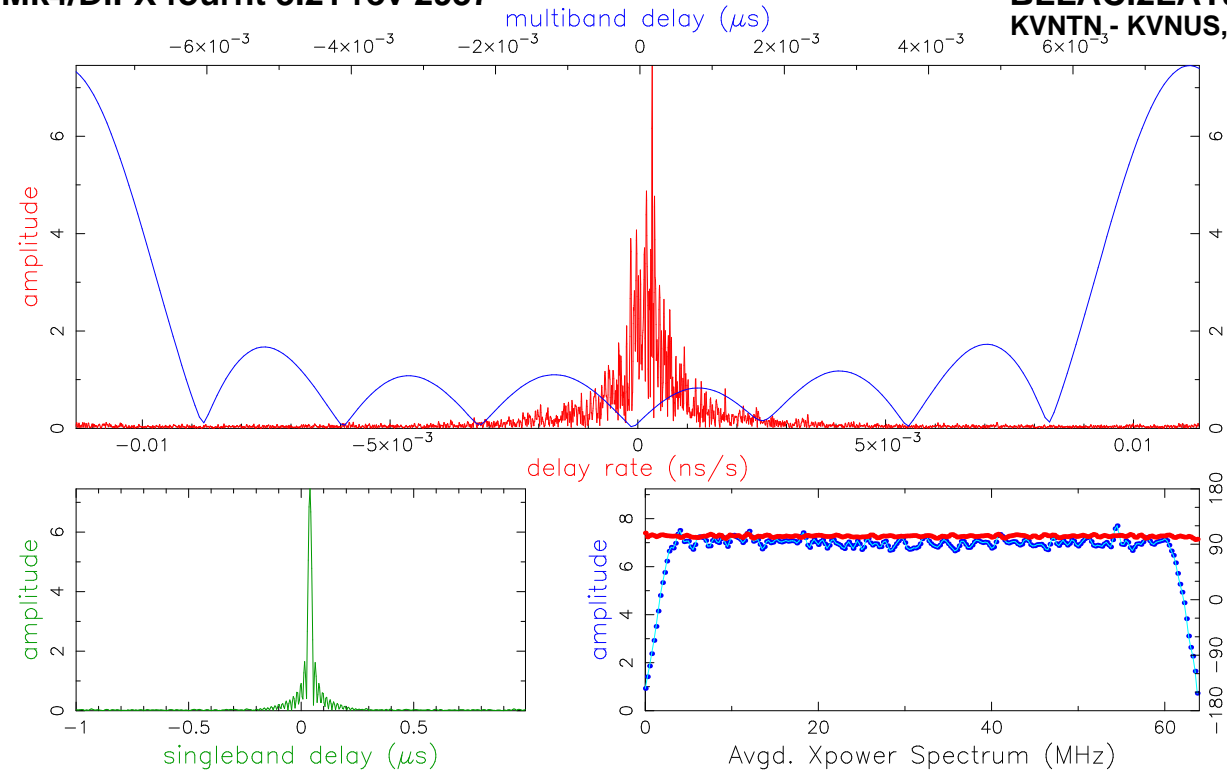
Group delay (usec)(sbd) 2.50474396598E+02 Apriori delay (usec) 2.50437035203E+02 Resid mbdelay (usec) 6.11140E-03 +/- 2.1E-06
 Sband delay (usec) 2.50474412953E+02 Apriori clock (usec) 4.5705624E+00 Resid sbdelay (usec) 3.73777E-02 +/- 1.7E-05
 Phase delay (usec) 2.50437030348E+02 Apriori clockrate (us/s) -6.1999993E-08 Resid phdelay (usec) -4.85513E-06 +/- 7.3E-09
 Delay rate (us/s) 9.50866282243E-03 Apriori rate (us/s) 9.50837461697E-03 Resid rate (us/s) 2.88205E-07 +/- 2.1E-11
 Total phase (deg) -74.1 Apriori accel (us/s/s) -3.77484202594E-06 Resid phase (deg) -150.6 +/- 0.2

RMS Theor. Amplitude 7.571 +/- 0.015 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 69.1 0.5 Search (4096X32) 7.320 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 82.6 0.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 2.5 0.3 Inc. seg. avg. 11.708 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 2.0 0.6 Inc. frq. avg. 7.444 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

t: az 298.0 el 51.7 pa 88.1 u: az 295.8 el 50.7 pa 81.9 u,v (fr/asec) -84.757 -481.429 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tu..2LATJ8 Output file: /Exps/c222c/v1/3mm/3001/No0005/tu.W.15.2LATJ8

Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2LATJ8, No0005, tu
KVNTN- KVNUS, fgroup W, pol RR

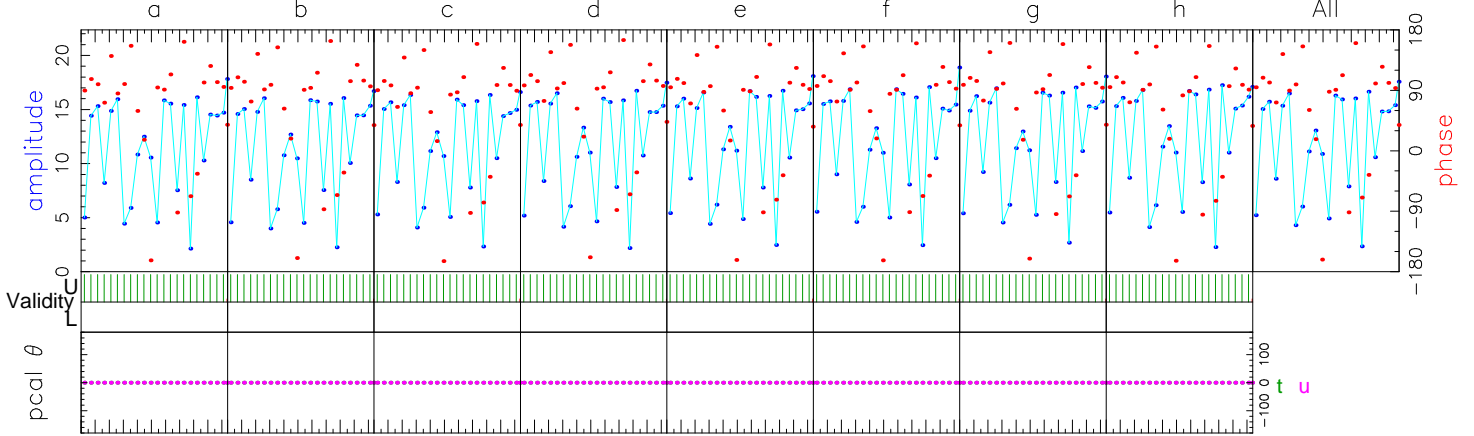


Fringe quality 5

SNR 499.3
Int time 599.979
Amp 7.456
Phase 102.7
PFD 0.0e+00
Delays (us)
SBD 0.038823
MBD 0.007613
Fringe rate (Hz)
0.024827
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154000.00
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:045:103553
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

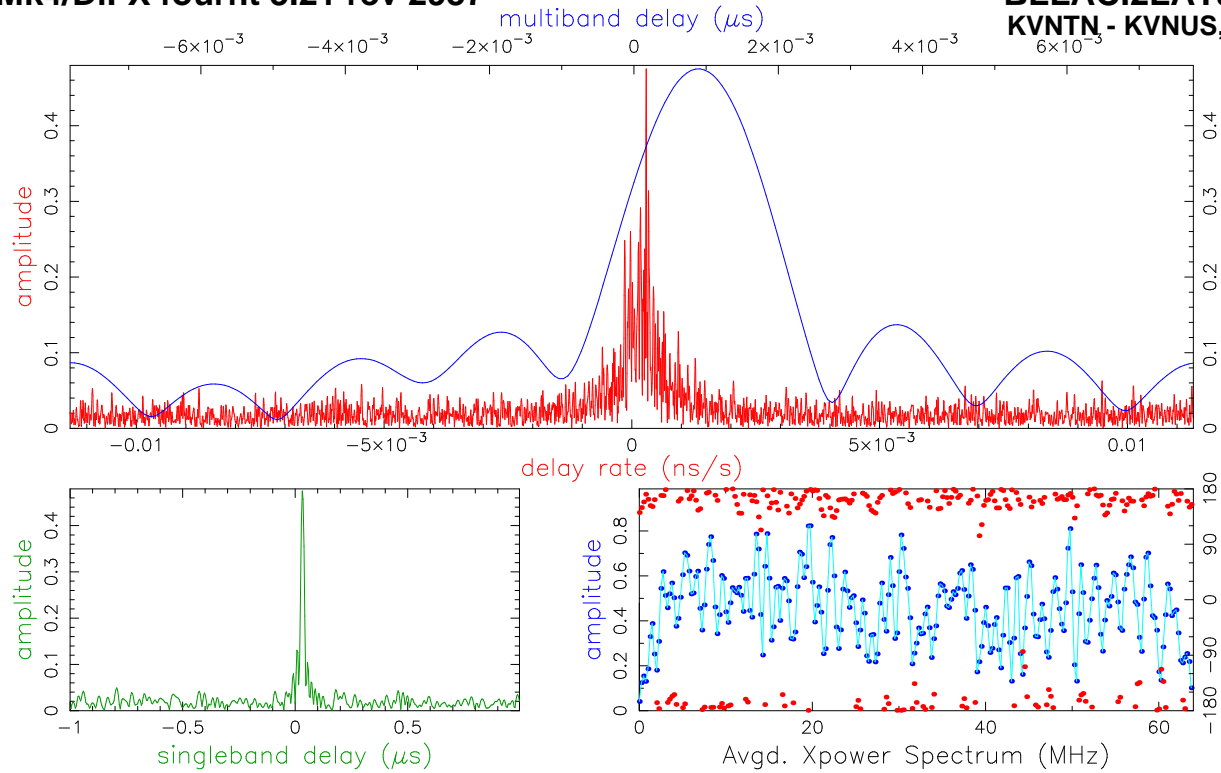


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	102.3	104.5	98.9	106.0	101.0	103.1	103.9	101.7	Phase	102.7
	7.2	7.2	7.3	7.4	7.6	7.6	7.6	7.7	Ampl.	7.5
	266.9	266.9	266.9	267.1	266.9	267.0	267.0	266.9	Sbd box	266.9
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
u	0	0	0	0	0	0	0	0	PC freqs	
t:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
tu	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
u	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.50475898629E+02					2.50437035203E+02			Resid mbdelay (usec)	7.61343E-03 +/- 2.2E-06
Sband delay (usec)	2.50475858203E+02					4.5705624E+00			Resid sbdelay (usec)	3.88230E-02 +/- 1.7E-05
Phase delay (usec)	2.50437038514E+02					-6.1999993E-08			Resid phdelay (usec)	3.31063E-06 +/- 7.4E-09
Delay rate (us/s)	9.50866283518E-03					9.50837461697E-03			Resid rate (us/s)	2.88218E-07 +/- 2.1E-11
Total phase (deg)		179.1				-3.77484202594E-06			Resid phase (deg)	102.7 +/- 0.2
	RMS	Theor.	Amplitude	7.456 +/- 0.015					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	68.9	0.6	Search (4096X32)	7.294					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	84.6	1.0	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	2.4	0.3	Inc. seg. avg.	11.738					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	2.4	0.6	Inc. frq. avg.	7.458					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
t: az 298.0 el 51.7 pa 88.1			u: az 295.8 el 50.7 pa 81.9			u,v (fr/asec) -84.757 -481.429				ion window (TEC) 0.00 0.00

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tu..2LATJ8 Output file: /Exps/c222c/v1/3mm/3001/No0005/tu.W.16.2LATJ8 simultaneous interpolator

Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2LATJ8, No0005, tu
KVNTN - KVNUS, fgroup W, pol LR

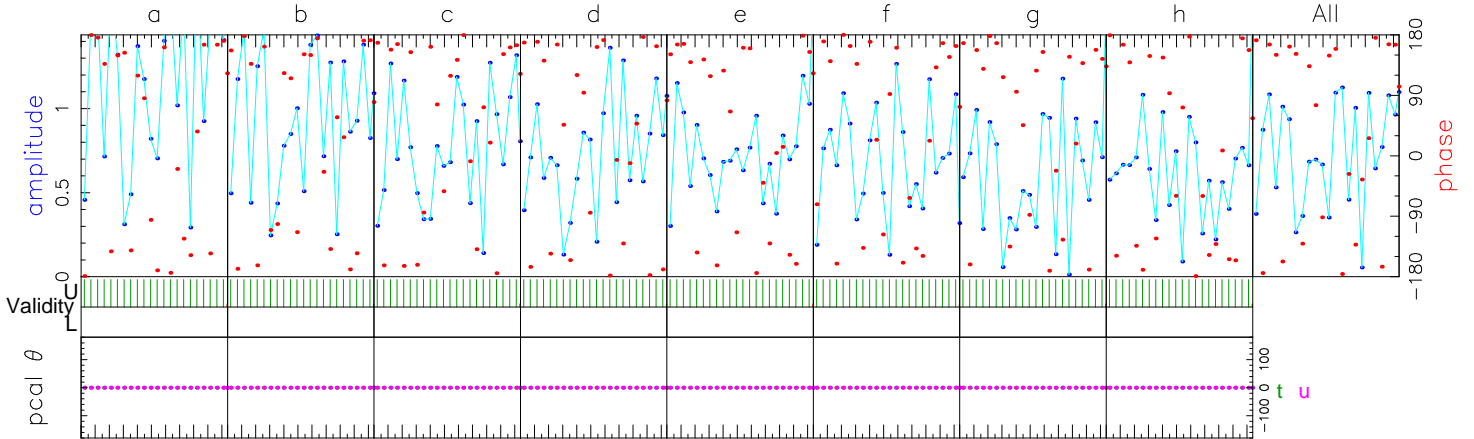


Fringe quality 6

SNR 32.1
Int time 599.979
Amp 0.480
Phase 173.3
PFD 0.0e+00
Delays (us)
SBD 0.032448
MBD 0.000894
Fringe rate (Hz) 0.024818
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154000.00
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:045:103559
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
	175.7	176.9	165.0	175.4	170.7	169.4	168.1	-176.6	Phase	173.3
	0.7	0.6	0.5	0.4	0.5	0.4	0.4	0.4	Ampl.	0.5
	265.2	265.1	265.1	265.3	265.6	265.4	265.6	265.3	Sbd box	265.3
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
u	0	0	0	0	0	0	0	0	PC freqs	
t:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
tu	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
u	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.50469178723E+02		Apriori delay (usec)		2.50437035203E+02		Resid mbdelay (usec)		8.93520E-04	+/- 3.4E-05
Sband delay (usec)	2.50469482953E+02		Apriori clock (usec)		4.5705624E+00		Resid sbdelay (usec)		3.24478E-02	+/- 2.7E-04
Phase delay (usec)	2.50437040793E+02		Apriori clockrate (us/s)		-6.1999993E-08		Resid phdelay (usec)		5.59004E-06	+/- 1.2E-07
Delay rate (us/s)	9.50866273457E-03		Apriori rate (us/s)		9.50837461697E-03		Resid rate (us/s)		2.88118E-07	+/- 3.3E-10
Total phase (deg)	249.8		Apriori accel (us/s/s)		-3.77484202594E-06		Resid phase (deg)		173.3	+/- 3.6

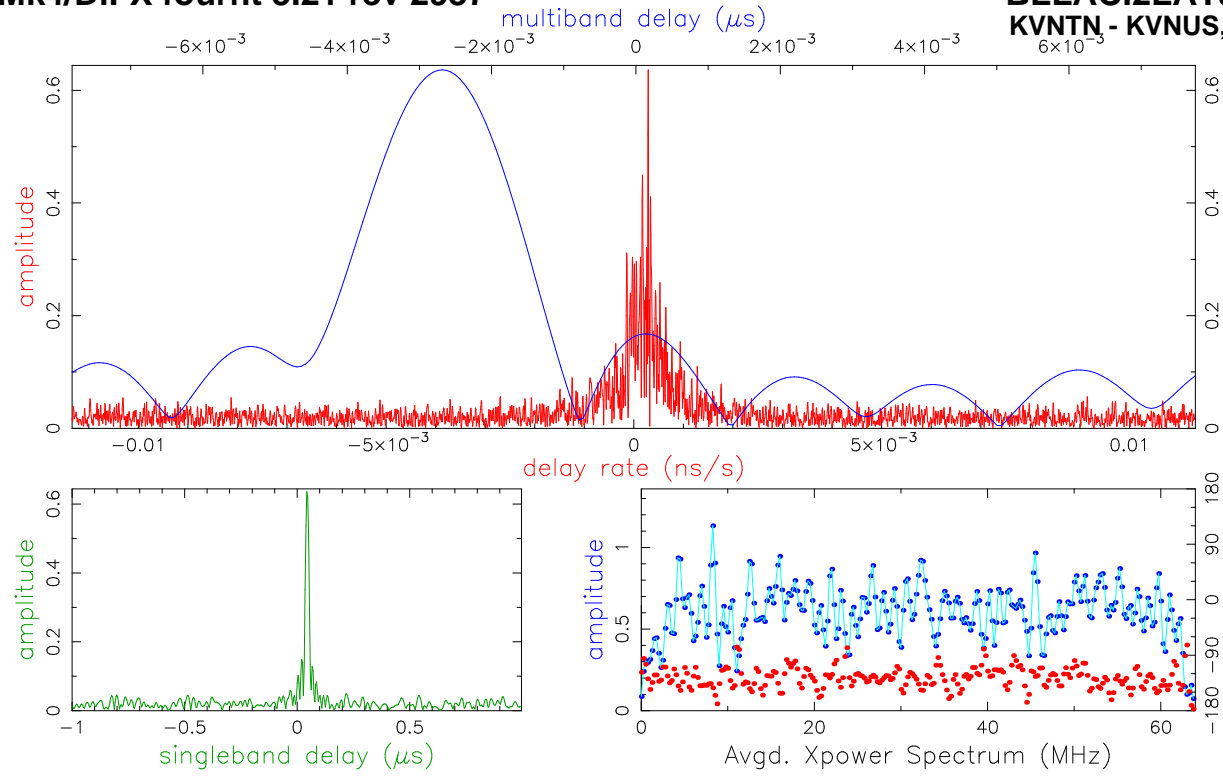
	RMS	Theor.	Amplitude	0.480 +/- 0.015	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	67.5	8.6	Search (4096X32)	0.465	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	84.2	14.9	Interp.	0.000	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	6.4	5.0	Inc. seg. avg.	0.727	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	21.6	8.8	Inc. frq. avg.	0.475	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

t: az 298.0 el 51.7 pa 88.1 u: az 295.8 el 50.7 pa 81.9 u,v (fr/asec) -84.757 -481.429 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tu..2LATJ8 Output file: /Exps/c222c/v1/3mm/3001/No0005/tu.W.18.2LATJ8

Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2LATJ8, No0005, tu
KVNTN - KVNUS, fgroup W, pol RL

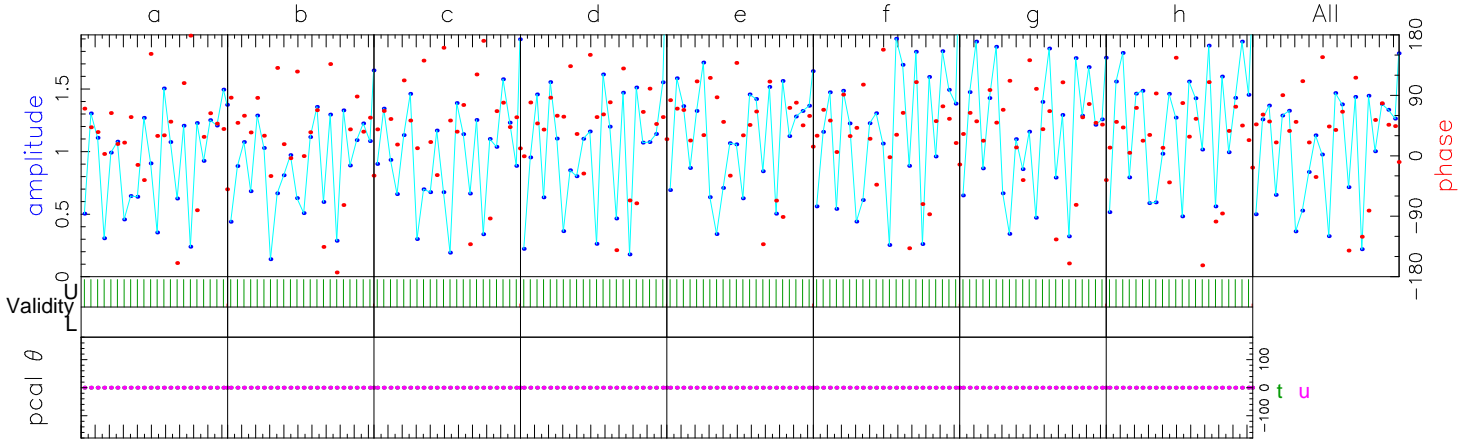


Fringe quality 7

SNR 43.1
Int time 599.979
Amp 0.644
Phase 54.2
PFD 0.0e+00
Delays (us)
SBD 0.044370
MBD -0.002675
Fringe rate (Hz) 0.024825
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

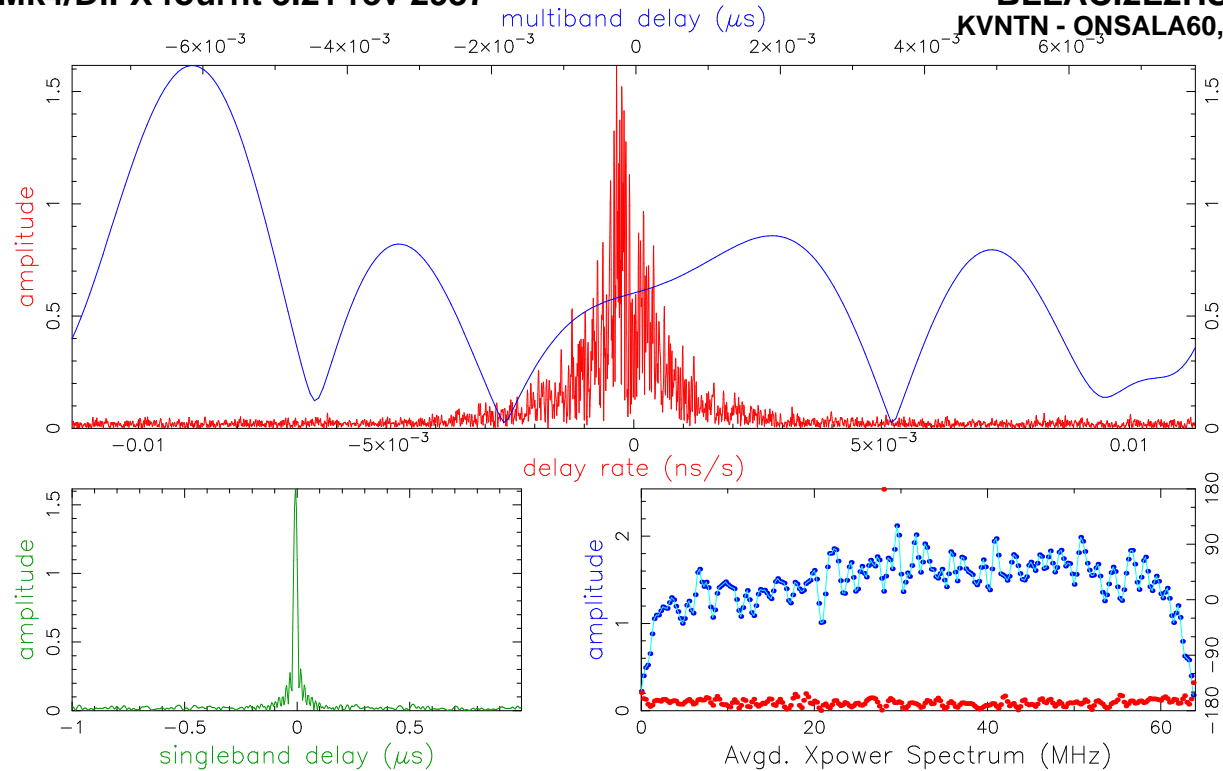
Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154000.00
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:045:103604
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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		
t	0	0	0	0	0	0	0	0		
u	0	0	0	0	0	0	0	0		
t:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
tu	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
u	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	2.5048123491E+02		Apriori delay (usec)		2.50437035203E+02		Resid mbdelay (usec)		-2.67529E-03	+/- 2.5E-05
Sband delay (usec)	2.50481404703E+02		Apriori clock (usec)		4.5705624E+00		Resid sbdelay (usec)		4.43695E-02	+/- 2.0E-04
Phase delay (usec)	2.50437036950E+02		Apriori clockrate (us/s)		-6.1999993E-08		Resid phdelay (usec)		1.74705E-06	+/- 8.6E-08
Delay rate (us/s)	9.50866281641E-03		Apriori rate (us/s)		9.50837461697E-03		Resid rate (us/s)		2.88199E-07	+/- 2.5E-10
Total phase (deg)	130.6		Apriori accel (us/s/s)		-3.77484202594E-06		Resid phase (deg)		54.2	+/- 2.7

ph/seg (deg) 68.9 6.4 Search (4096X32) 0.627 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 85.6 11.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 10.8 3.8 Inc. seg. avg. 1.007 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 11.2 6.6 Inc. frq. avg. 0.643 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
t: az 298.0 el 51.7 pa 88.1 u: az 295.8 el 50.7 pa 81.9 u,v (fr/asec) -84.757 -481.429 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tu..2LATJ8 Output file: /Exps/c222c/v1/3mm/3001/No0005/tu.W.20.2LATJ8

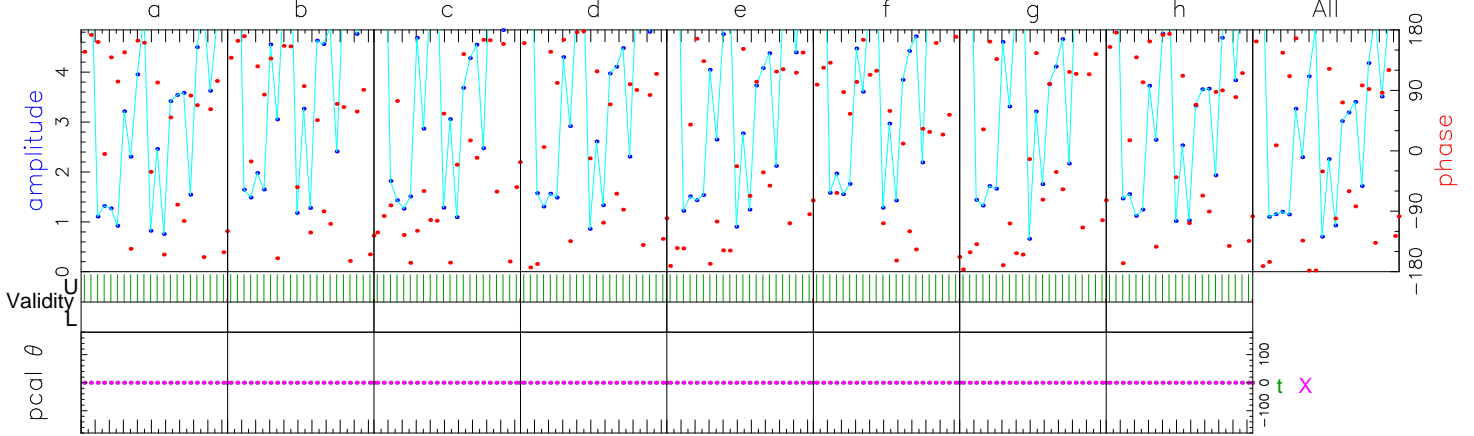


Fringe quality 2

SNR 108.2
Int time 599.956
Amp 1.617
Phase 173.7
PFD 0.0e+00
Delays (us)
SBD -0.007784
MBD -0.006145
Fringe rate (Hz)
-0.030227
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

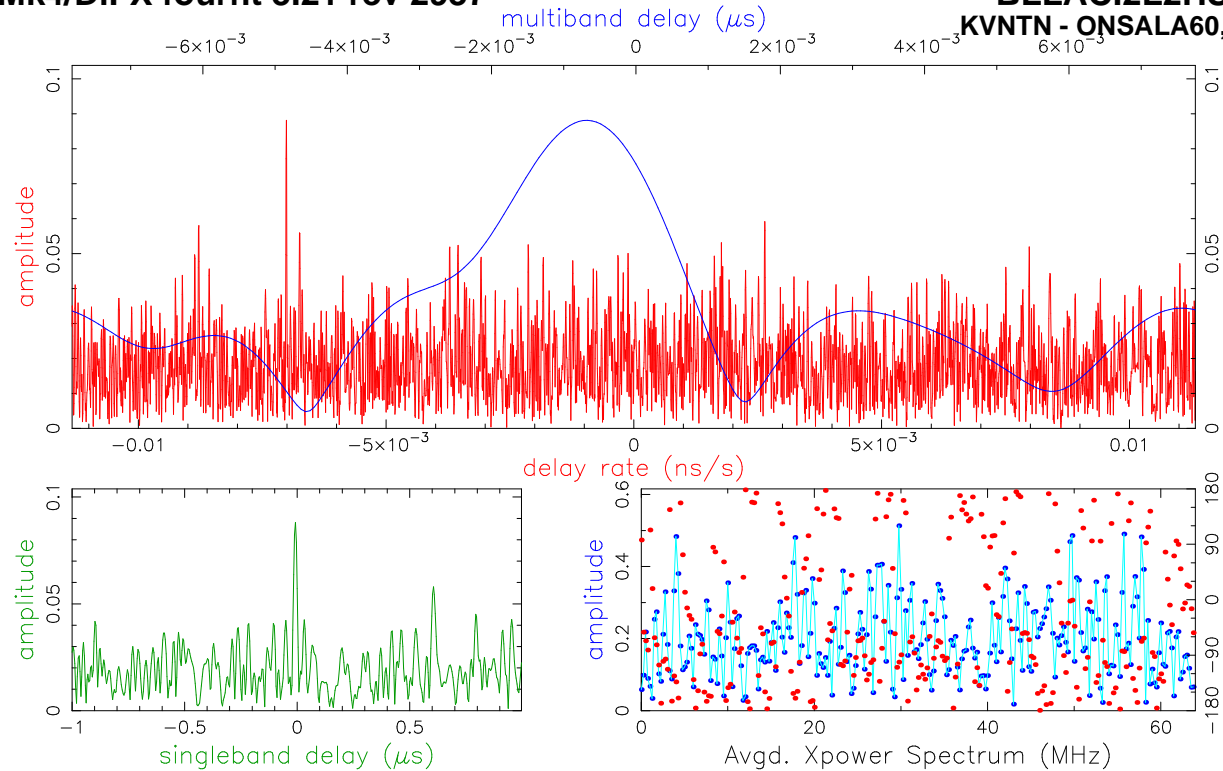
Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154000.00
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:040:223643
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



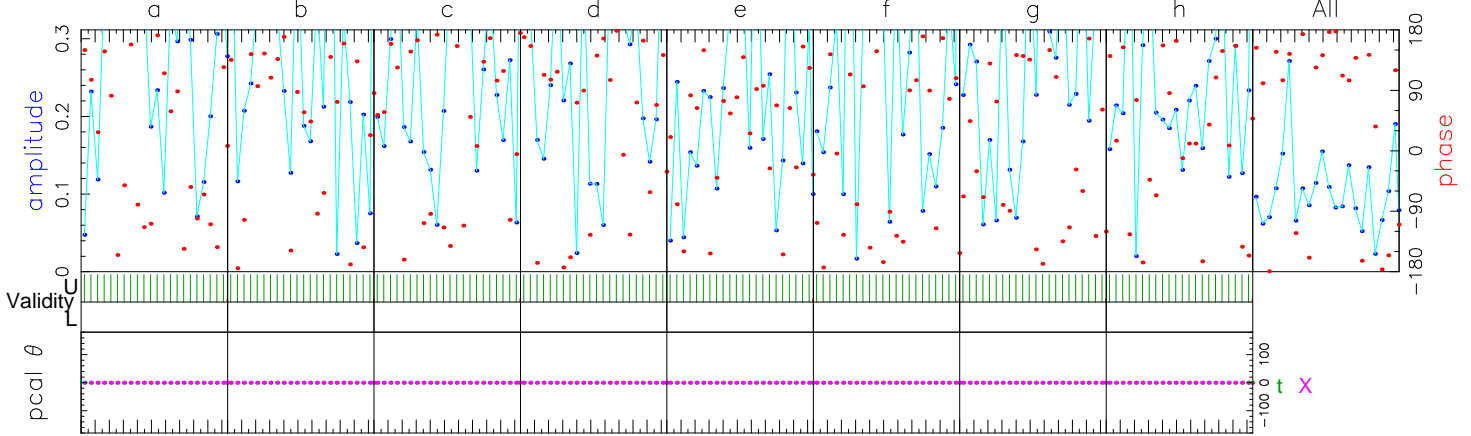
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0		
t	0	0	0	0	0	0	0	0		
X	0	0	0	0	0	0	0	0		
t:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	7.46324447874E+02					7.46330593057E+02			Resid mbdelay (usec)	-6.14518E-03 +/- 1.0E-05
Sband delay (usec)	7.46322808807E+02					-7.6947937E+01			Resid sbdelay (usec)	-7.78425E-03 +/- 8.0E-05
Phase delay (usec)	7.46330598658E+02					-1.3620002E-07			Resid phdelay (usec)	5.60058E-06 +/- 3.4E-08
Delay rate (us/s)	-1.28874790726E+00					-1.28874755636E+00			Resid rate (us/s)	-3.50901E-07 +/- 9.9E-11
Total phase (deg)		276.6				-2.67252459507E-05			Resid phase (deg)	173.7 +/- 1.1

ph/seg (deg) 78.7 2.5 Search (4096X32) 1.545 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 151.7 4.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 44.8 1.5 Inc. seg. avg. 3.240 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 30.4 2.6 Inc. frq. avg. 2.065 Data rate (Mbit/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
t: az 298.0 el 51.7 pa 88.1 X: az 80.2 el 46.5 pa -46.0 u,v (fr/asec) 9910.966 -4026.640 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tX..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tX.W.22.2L2HSR



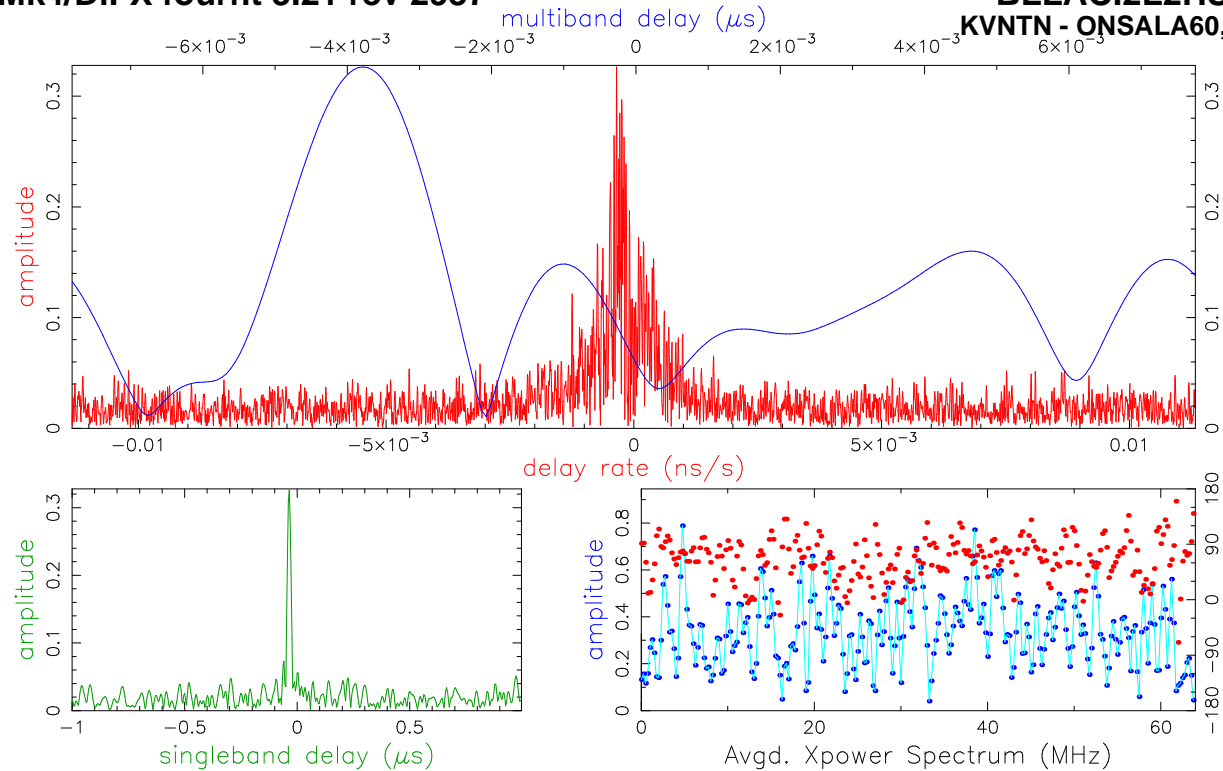
Fringe quality 0
SNR 5.9
Int time 599.956
Amp 0.104
Phase 147.5
PFD 8.3e-01
Delays (us)
SBD -0.008265
MBD -0.000694
Fringe rate (Hz)
-0.604992
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154000.00
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:040:223649
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
	-169.9	137.2	164.1	139.0	84.6	146.0	-142.7	160.2	Phase	147.5
	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.0	Ampl.	0.1
	485.3	254.1	185.1	206.8	485.2	342.4	196.3	44.7	Sbd box	254.9
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
t:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
t	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)	7.46329899468E+02		Apriori delay (usec)		7.46330593057E+02		Resid mbdelay (usec)		-6.93590E-04	+/- 1.8E-04
Sband delay (usec)	7.46322327807E+02		Apriori clock (usec)		-7.6947937E+01		Resid sbdelay (usec)		-8.26525E-03	+/- 1.5E-03
Phase delay (usec)	7.46330597813E+02		Apriori clockrate (us/s)		-1.3620002E-07		Resid phdelay (usec)		4.75575E-06	+/- 6.3E-07
Delay rate (us/s)	-1.28875457972E+00		Apriori rate (us/s)		-1.28874755636E+00		Resid rate (us/s)		-7.02336E-06	+/- 1.8E-09
Total phase (deg)	250.4		Apriori accel (us/s/s)		-2.67252459507E-05		Resid phase (deg)		147.5	+/- 19.4

ph/seg (deg) 44.4 46.5 Search (4096X32) 0.087 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 62.3 81.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 43.3 27.4 Inc. seg. avg. 0.095 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 48.5 47.9 Inc. frq. avg. 0.112 Data rate (Mbit/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
t: az 298.0 el 51.7 pa 88.1 X: az 80.2 el 46.5 pa -46.0 u,v (fr/asec) 9910.966 -4026.640 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tX...2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tX.W.42.2L2HSR

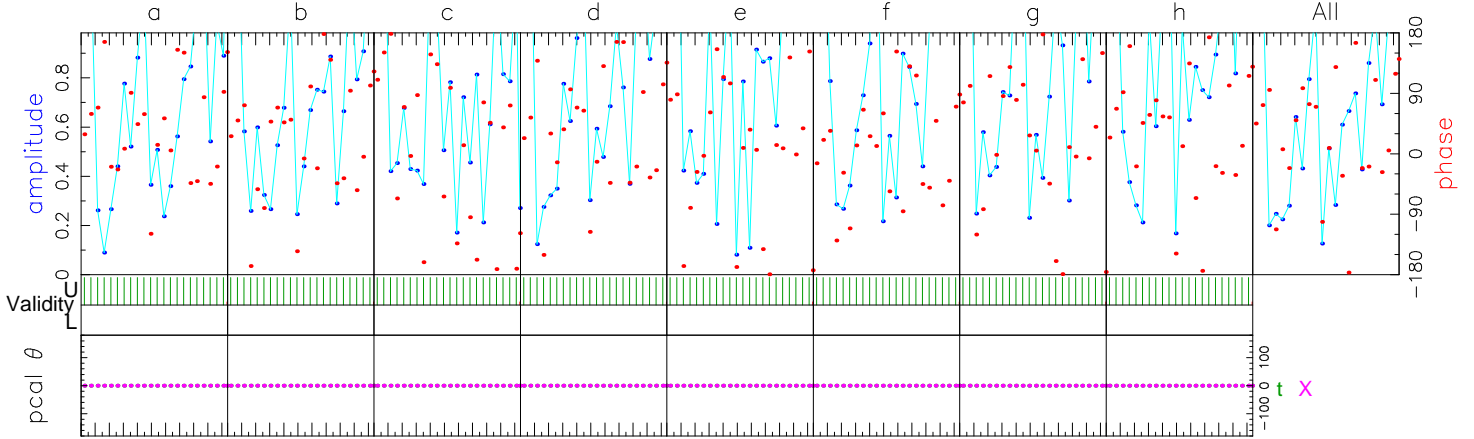


Fringe quality 8

SNR 21.9
Int time 599.956
Amp 0.328
Phase 56.8
PFD 0.0e+00
Delays (us)
SBD -0.035958
MBD -0.003793
Fringe rate (Hz)
-0.030272
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154000.00
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:040:223656
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



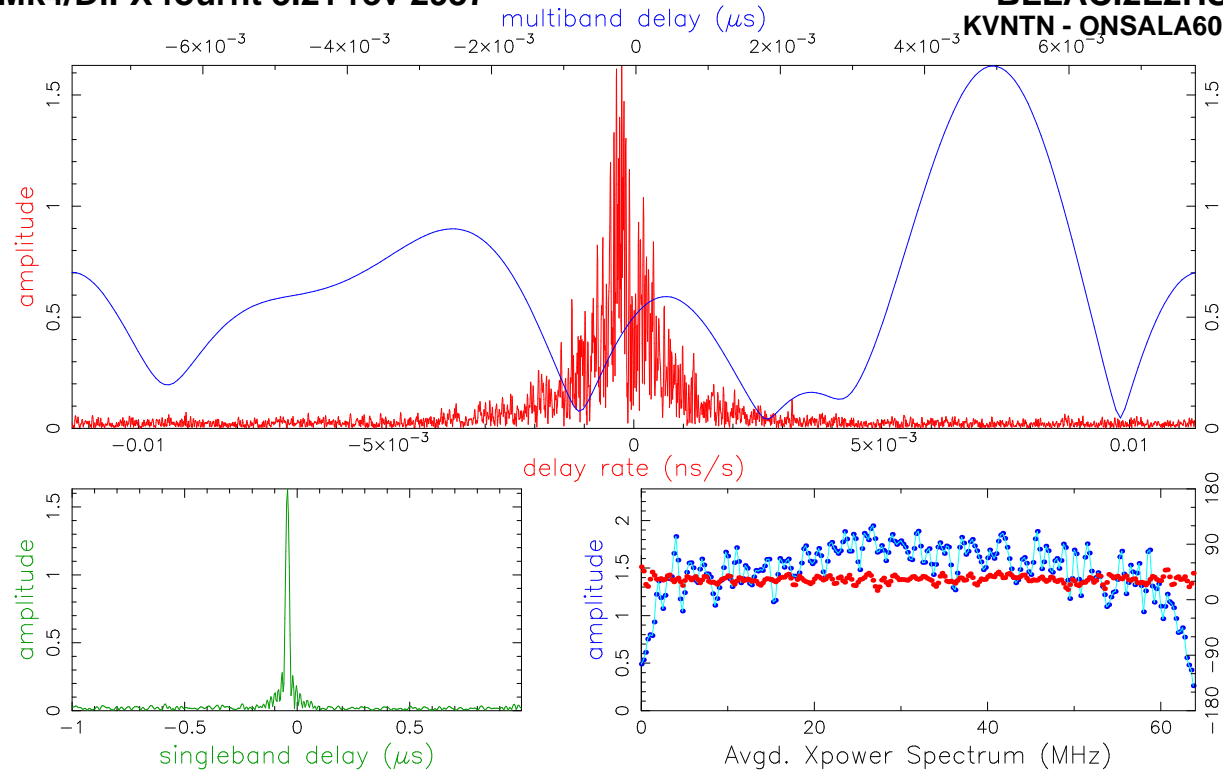
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	35.4	48.2	132.9	48.2	75.6	6.4	93.3	50.5	Phase	56.8
	0.4	0.4	0.3	0.4	0.4	0.5	0.4	0.5	Ampl.	0.4
	249.2	247.4	247.2	247.1	246.8	247.2	247.1	248.0	Sbd box	247.8
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
t:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
t	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)	7.46295550062E+02		Apriori delay (usec)		7.46330593057E+02		Resid mbdelay (usec)		-3.79300E-03	+/- 4.9E-05
Sband delay (usec)	7.46294635307E+02		Apriori clock (usec)		-7.6947937E+01		Resid sbdelay (usec)		-3.59577E-02	+/- 3.9E-04
Phase delay (usec)	7.46330594890E+02		Apriori clockrate (us/s)		-1.3620002E-07		Resid phdelay (usec)		1.83216E-06	+/- 1.7E-07
Delay rate (us/s)	-1.28874790779E+00		Apriori rate (us/s)		-1.28874755636E+00		Resid rate (us/s)		-3.51430E-07	+/- 4.9E-10
Total phase (deg)	159.8		Apriori accel (us/s/s)		-2.67252459507E-05		Resid phase (deg)		56.8	+/- 5.2

ph/seg (deg) RMS Theor. Amplitude 0.328 +/- 0.015 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 79.2 12.5 Search (4096X32) 0.302 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 148.4 21.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 42.2 7.4 Inc. seg. avg. 0.647 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 26.0 12.9 Inc. frq. avg. 0.392 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

t: az 298.0 el 51.7 pa 88.1 X: az 80.2 el 46.5 pa -46.0 u,v (fr/asec) 9910.966 -4026.640 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tX..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tX.W.62.2L2HSR

Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2L2HSR, No0005, tX
KVNTN - ONSALA60, fgroup W, pol LL

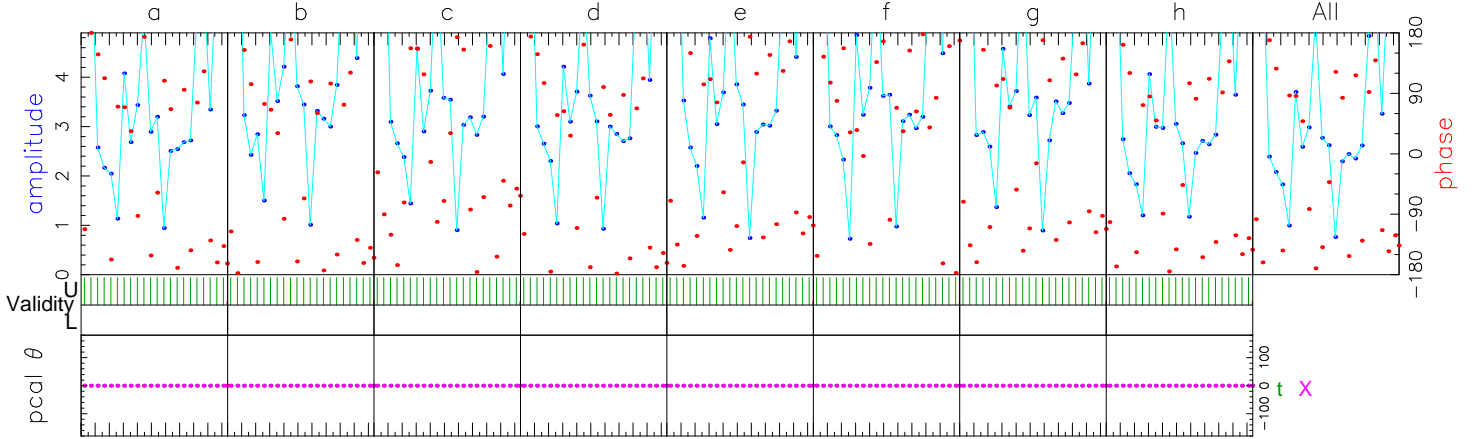


Fringe quality 2

SNR 109.4
Int time 599.956
Amp 1.633
Phase -164.5
PFD 0.0e+00
Delays (us)
SBD -0.043463
MBD 0.004937
Fringe rate (Hz)
-0.021007
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154000.00
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:040:223638
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



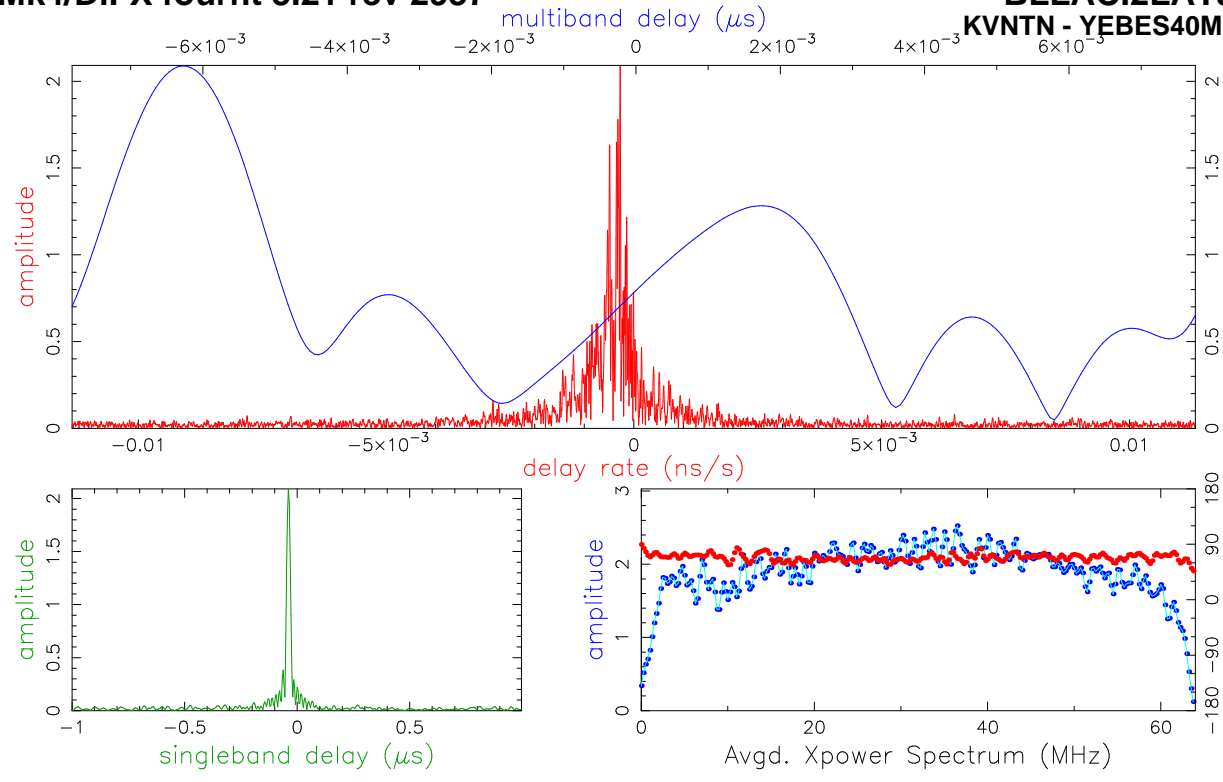
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	178.2	179.2	-94.1	169.5	-137.0	141.8	-136.6	-171.0	Phase	-164.5
	1.6	2.2	2.1	2.0	2.2	2.2	2.0	1.8	Ampl.	2.0
	247.4	245.5	245.5	245.1	245.2	245.5	245.5	246.2	Sbd box	245.9
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
t:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	7.46288655435E+02	Apriori delay (usec)	7.46330593057E+02	Resid mbdelay (usec)	4.93738E-03	+/-	9.9E-06
Sband delay (usec)	7.46287129557E+02	Apriori clock (usec)	-7.6947937E+01	Resid sbdelay (usec)	-4.34635E-02	+/-	7.9E-05
Phase delay (usec)	7.46330587751E+02	Apriori clockrate (us/s)	-1.3620002E-07	Resid phdelay (usec)	-5.30625E-06	+/-	3.4E-08
Delay rate (us/s)	-1.28874780023E+00	Apriori rate (us/s)	-1.28874755636E+00	Resid rate (us/s)	-2.43867E-07	+/-	9.8E-11
Total phase (deg)		Apriori accel (us/s/s)	-2.67252459507E-05	Resid phase (deg)	-164.5	+/-	1.0

ph/seg (deg)	RMS 74.5	Theor. 2.5	Amplitude Search (4096X32)	1.601	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	157.3	4.4	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)	42.1	1.5	Inc. seg. avg.	3.495	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	26.5	2.6	Inc. frq. avg.	2.023	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

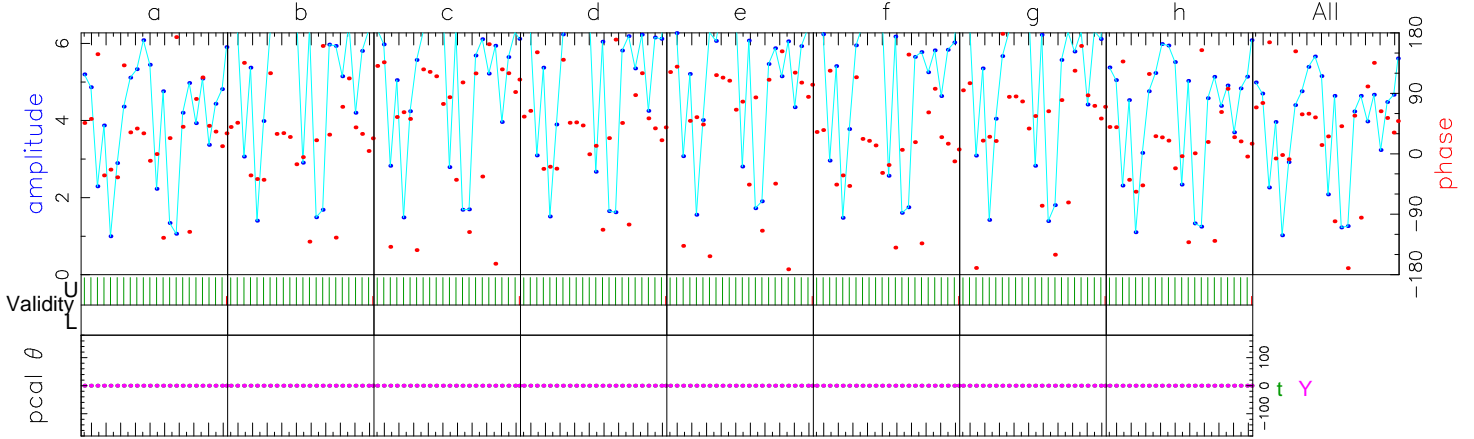
t: az 298.0 el 51.7 pa 88.1 X: az 80.2 el 46.5 pa -46.0 u,v (fr/asec) 9910.966 -4026.640 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tX..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tX.W.6.2L2HSR



Fringe quality 2
SNR 138.0
Int time 582.429
Amp 2.092
Phase 55.9
PFD 0.0e+00
Delays (us)
SBD -0.038584
MBD -0.006255
Fringe rate (Hz)
-0.023893
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154017.41
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:045:103537
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

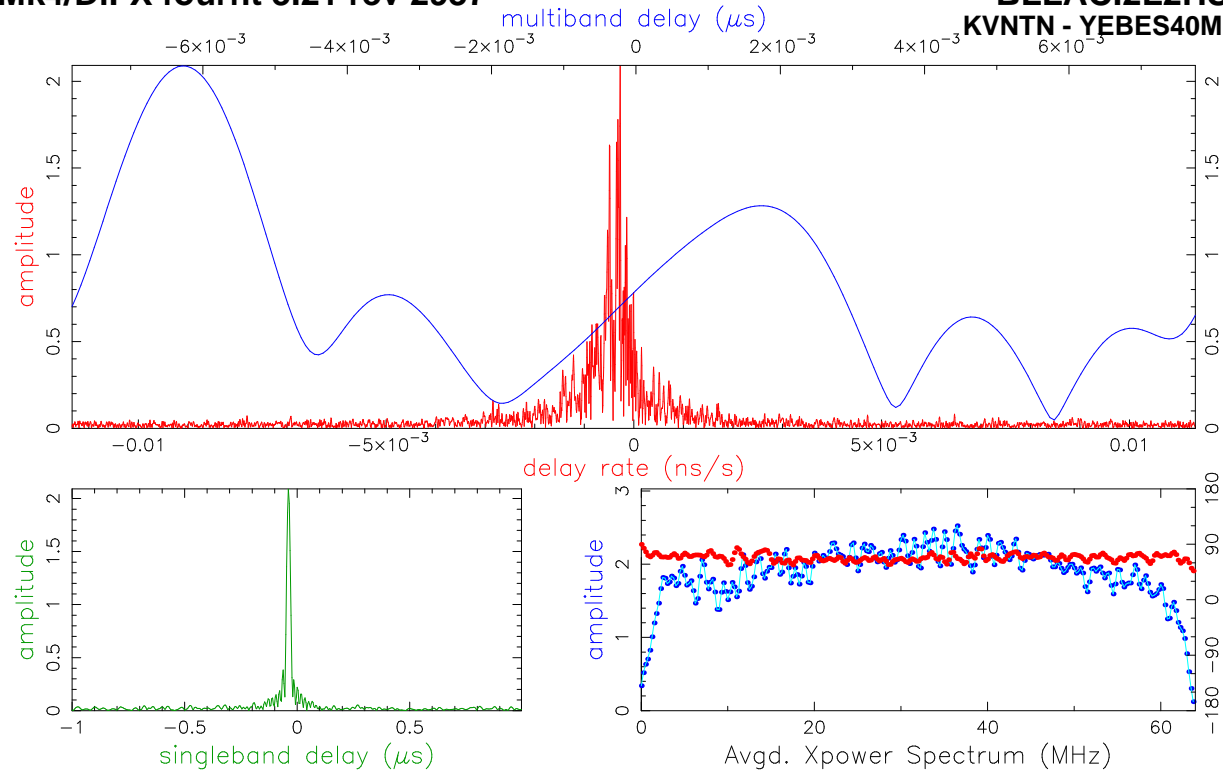


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	33.5	28.9	117.4	43.4	109.9	16.5	80.7	19.7	Phase	55.9
	2.1	2.9	2.7	2.8	2.8	2.8	2.8	2.3	Ampl.	2.6
	248.8	247.1	246.5	246.5	246.3	246.3	246.7	246.3	Sbd box	247.1
U/L	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
t:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	5.16170992286E+03	Apriori delay (usec)		5.16174742817E+03	Resid mbdelay (usec)	-6.25531E-03	+/-	7.9E-06
Sband delay (usec)	5.16170884442E+03	Apriori clock (usec)		4.9355175E+01	Resid sbdelay (usec)	-3.85838E-02	+/-	6.2E-05
Phase delay (usec)	5.16174742997E+03	Apriori clockrate (us/s)		1.9789999E-06	Resid phdelay (usec)	1.80250E-06	+/-	2.7E-08
Delay rate (us/s)	-1.58647300516E+00	Apriori rate (us/s)		-1.58647272779E+00	Resid rate (us/s)	-2.77369E-07	+/-	8.0E-11
Total phase (deg)	222.3	Apriori accel (us/s/s)		-3.48629705212E-05	Resid phase (deg)	55.9	+/-	0.8

ph/seg (deg)	RMS 70.4	Theor. 2.0	Amplitude	2.092 +/- 0.015	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	107.5	3.5	Search (4096X32)	2.047	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	43.9	1.2	Inc. seg. avg.	3.857	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s)	-0.011	0.011
amp/frq (%)	29.2	2.0	Inc. frq. avg.	2.642	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00

t: az 298.0 el 51.7 pa 88.1 Y: az 58.7 el 31.2 pa -62.2 u,v (fr/asec) 12197.445 -3391.345 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tY..2LATJ8 Output file: /Exps/c222c/v1/3mm/3001/No0005/tY.W.13.2LATJ8

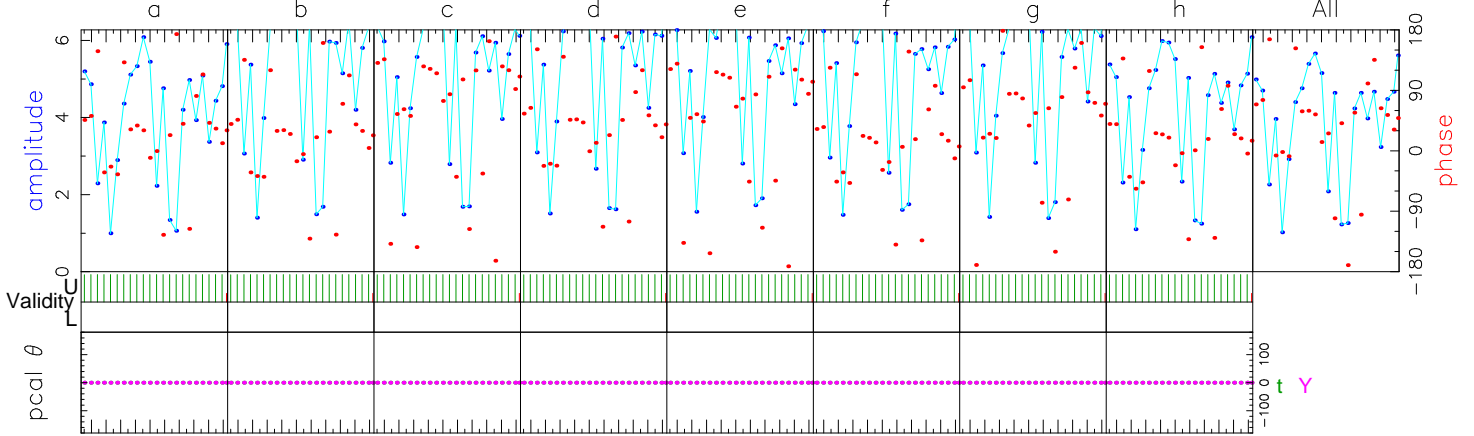


Fringe quality 2

SNR 138.0
Int time 582.429
Amp 2.092
Phase 55.9
PFD 0.0e+00
Delays (us)
SBD -0.038584
MBD -0.006255
Fringe rate (Hz)
-0.023893
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154017.41
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:045:103453
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



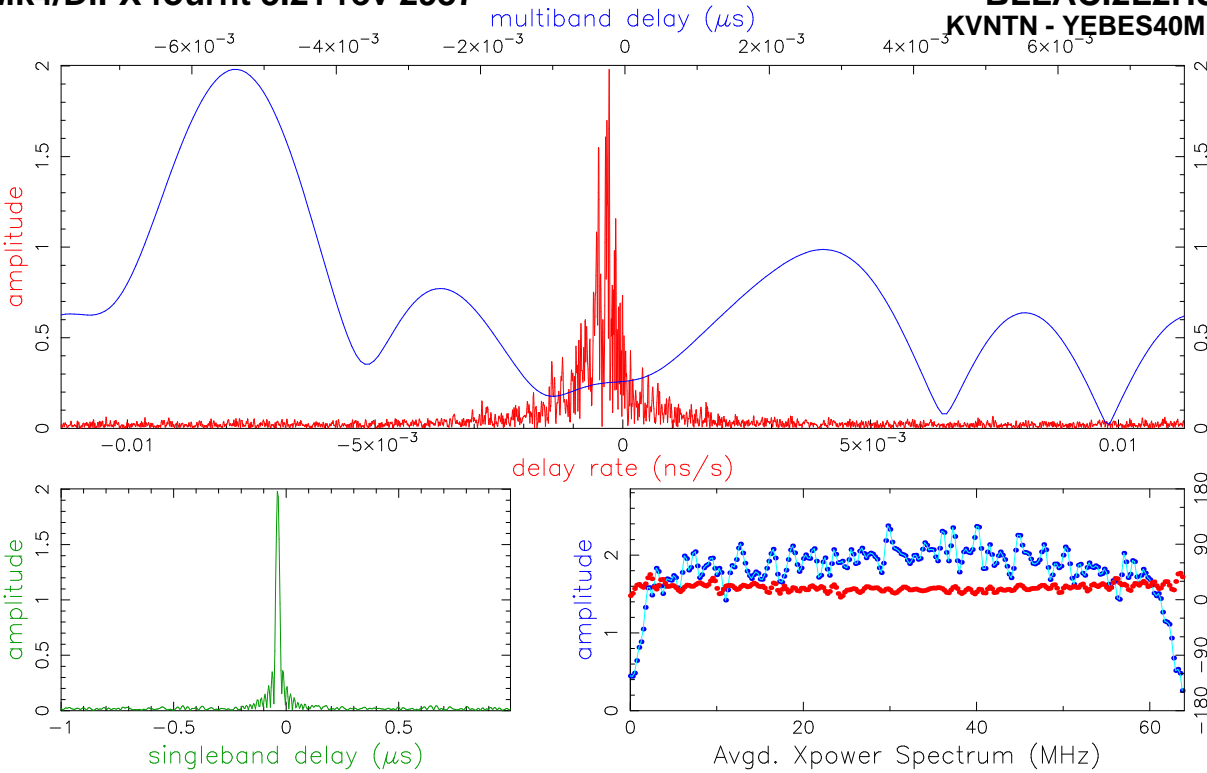
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	33.5	28.9	117.4	43.4	109.9	16.5	80.7	19.7	Phase	55.9
	2.1	2.9	2.7	2.8	2.8	2.8	2.8	2.3	Ampl.	2.6
	248.8	247.1	246.5	246.5	246.3	246.3	246.7	246.3	Sbd box	247.1
U/L	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
t:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	5.16170992286E+03	Apriori delay (usec)	5.16174742817E+03	Resid mbdelay (usec)	-6.25531E-03	+/-	7.9E-06
Sband delay (usec)	5.16170884442E+03	Apriori clock (usec)	4.9355175E+01	Resid sbdelay (usec)	-3.85838E-02	+/-	6.2E-05
Phase delay (usec)	5.16174742997E+03	Apriori clockrate (us/s)	1.9789999E-06	Resid phdelay (usec)	1.80250E-06	+/-	2.7E-08
Delay rate (us/s)	-1.58647300516E+00	Apriori rate (us/s)	-1.58647272779E+00	Resid rate (us/s)	-2.77369E-07	+/-	8.0E-11
Total phase (deg)	222.3	Apriori accel (us/s/s)	-3.48629705212E-05	Resid phase (deg)	55.9	+/-	0.8

ph/seg (deg)	RMS 70.4	Theor. 2.0	Amplitude Search (4096X32)	2.092 +/- 0.015	2.047	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	107.5	3.5	Interp.	0.000	3.857	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	43.9	1.2	Inc. seg. avg.	3.857	2.642	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	29.2	2.0	Inc. frq. avg.	2.642		Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

t: az 298.0 el 51.7 pa 88.1 Y: az 58.7 el 31.2 pa -62.2 u,v (fr/asec) 12197.445 -3391.345 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tY..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tY.W.133.2L2HSR

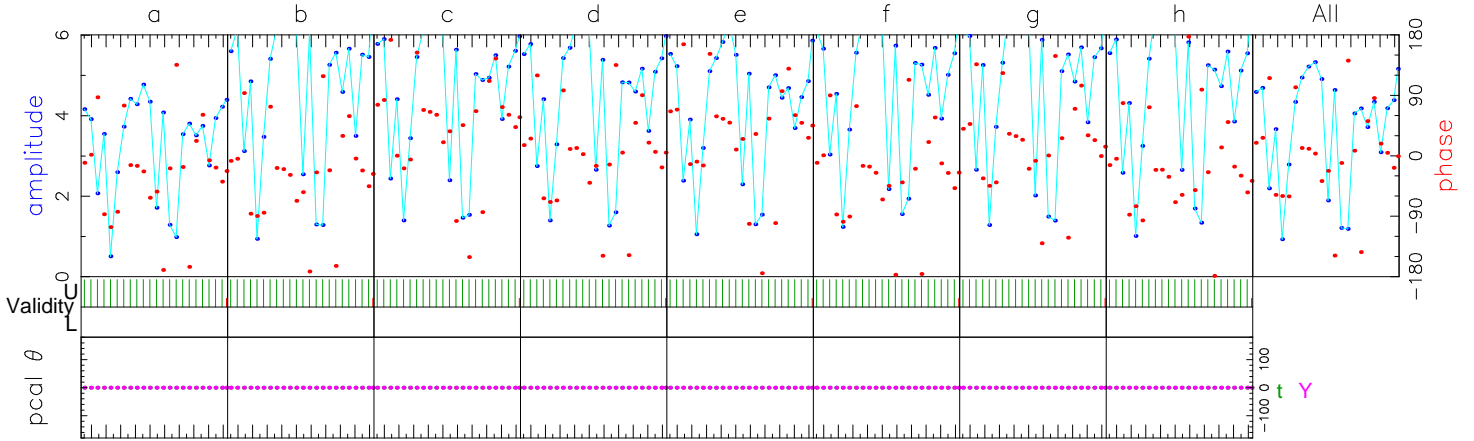


Fringe quality 2

SNR 132.2
 Int time 582.429
 Amp 2.003
 Phase 6.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.037697
 MBD -0.005365
 Fringe rate (Hz)
 -0.023916
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

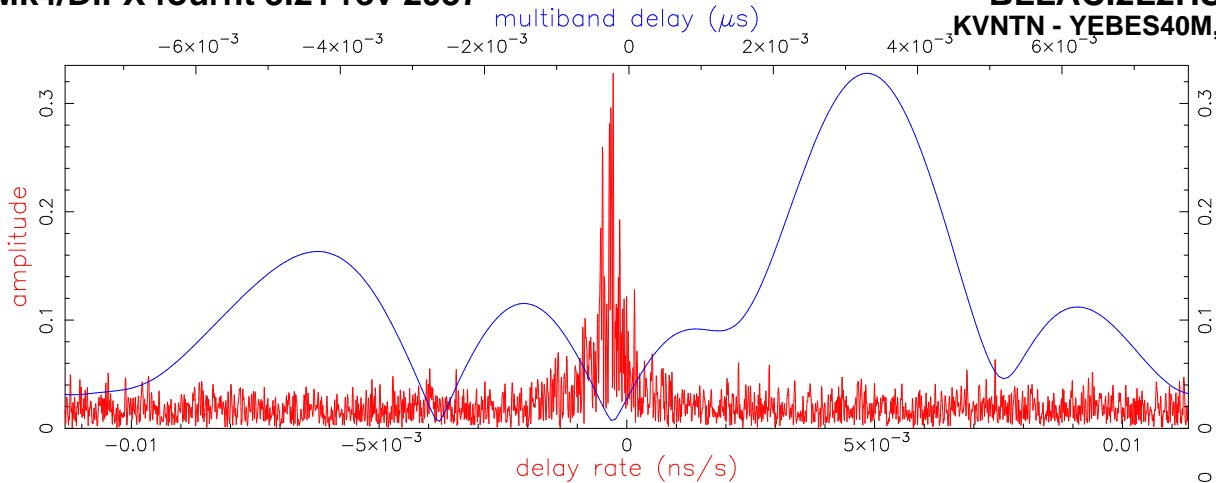
Exp. c222c
 Exper # 16383
 Yr:day 2022:281
 Start 154017.41
 Stop 155000.06
 FRT 154555.00
 Corr/FF/build
 2023:040:205350
 2023:045:103501
 2021:252:122852
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

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



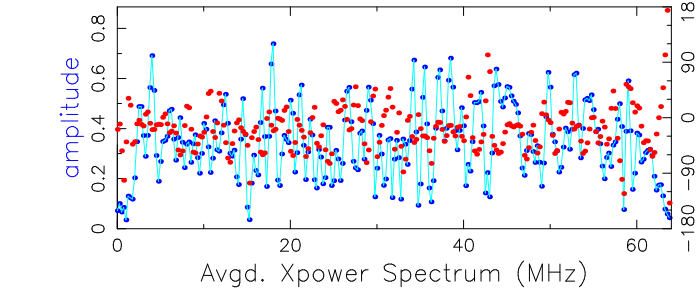
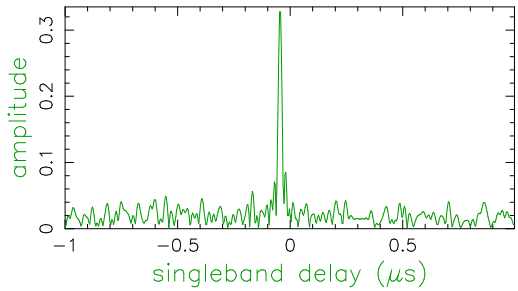
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-19.6	-22.4	64.5	6.8	52.6	-20.1	24.8	-25.9	Phase	6.9
	1.8	2.5	2.5	2.4	2.2	2.5	2.6	2.6	Ampl.	2.4
	249.1	246.8	247.1	247.0	246.5	246.7	246.9	246.9	Sbd box	247.3
U/L	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
t:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
t	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)	5.16171081355E+03		Apriori delay (usec)		5.16174742817E+03		Resid mbdelay (usec)		-5.36462E-03	+/- 8.2E-06
Sband delay (usec)	5.16170973092E+03		Apriori clock (usec)		4.9355175E+01		Resid sbdelay (usec)		-3.76972E-02	+/- 6.5E-05
Phase delay (usec)	5.16174742839E+03		Apriori clockrate (us/s)		1.9789999E-06		Resid phdelay (usec)		2.21640E-07	+/- 2.8E-08
Delay rate (us/s)	-1.58647300543E+00		Apriori rate (us/s)		-1.58647272779E+00		Resid rate (us/s)		-2.77639E-07	+/- 8.3E-11
Total phase (deg)	173.3		Apriori accel (us/s/s)		-3.48629705212E-05		Resid phase (deg)		6.9	+/- 0.9

ph/seg (deg) 70.7 2.1 Search (4096X32) 1.958 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 107.2 3.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 38.9 1.2 Inc. seg. avg. 3.679 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 22.2 2.1 Inc. frq. avg. 2.375 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 t: az 298.0 el 51.7 pa 88.1 Y: az 58.7 el 31.2 pa -62.2 u,v (fr/asec) 12197.445 -3391.345 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tY..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tY.W.136.2L2HSR



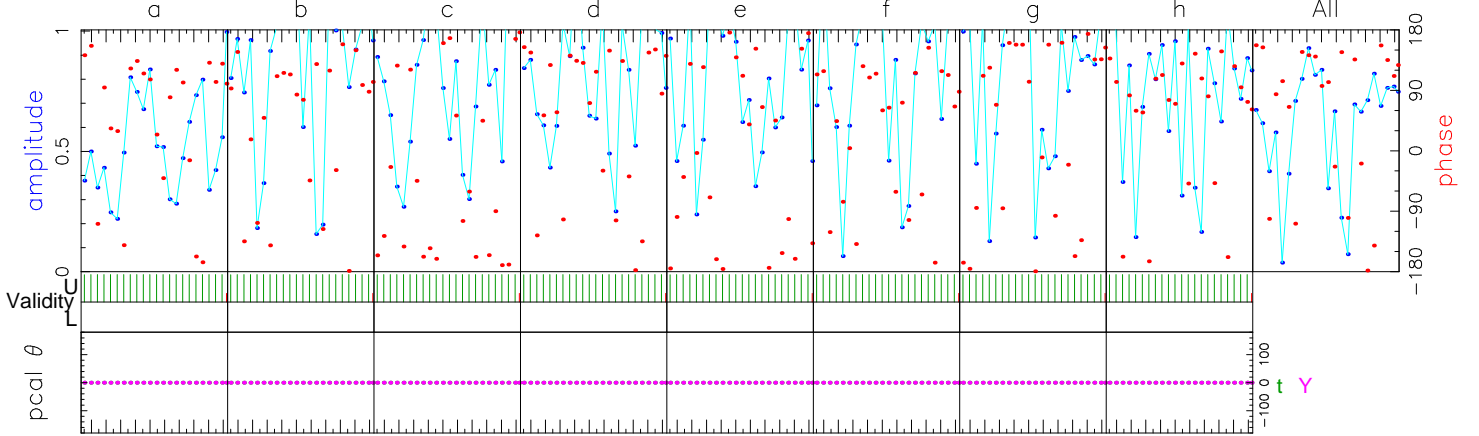
Fringe quality 8

SNR 22.1
Int time 582.429
Amp 0.335
Phase 143.3
PFD 0.0e+00
Delays (us)
SBD -0.044946
MBD 0.003343
Fringe rate (Hz)
-0.023873
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154017.41
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:045:103510
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



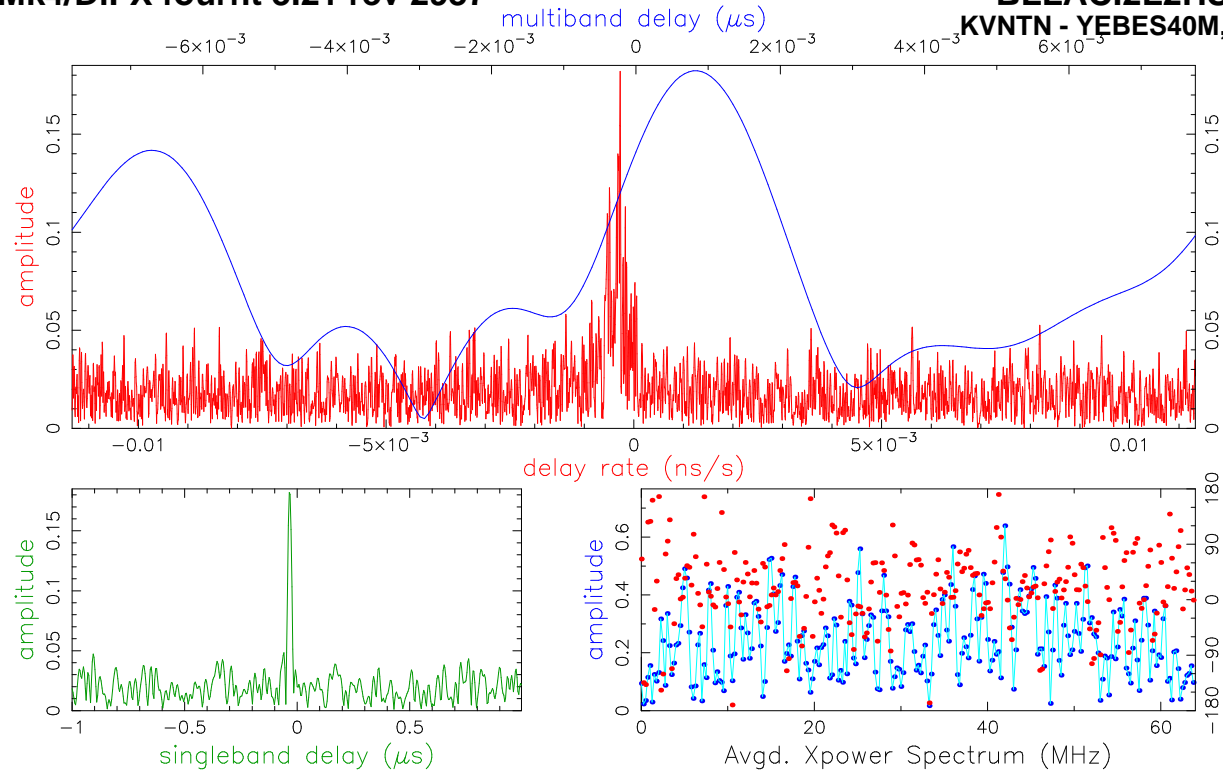
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	124.2	114.2	-160.6	142.2	178.3	112.8	165.2	107.6	Phase	143.3
	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.4	Ampl.	0.4
	247.4	244.8	245.1	245.0	245.0	245.1	245.1	245.2	Sbd box	245.5
U/L	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
t:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	5.16170389630E+03	Apriori delay (usec)	5.16174742817E+03	Resid mbdelay (usec)	3.34313E-03	+/-	4.9E-05
Sband delay (usec)	5.16170248192E+03	Apriori clock (usec)	4.9355175E+01	Resid sbdelay (usec)	-4.49462E-02	+/-	3.9E-04
Phase delay (usec)	5.16174743279E+03	Apriori clockrate (us/s)	1.9789999E-06	Resid phdelay (usec)	4.62085E-06	+/-	1.7E-07
Delay rate (us/s)	-1.58647300494E+00	Apriori rate (us/s)	-1.58647272779E+00	Resid rate (us/s)	-2.77146E-07	+/-	5.0E-10
Total phase (deg)	309.7	Apriori accel (us/s/s)	-3.48629705212E-05	Resid phase (deg)	143.3	+/-	5.2

ph/seg (deg)	RMS 72.4	Theor. 12.4	Amplitude Search (4096X32)	0.335 +/- 0.015	0.325	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	107.9	21.7	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)	37.1	7.3	Inc. seg. avg.	0.591	0.591	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	23.0	12.8	Inc. frq. avg.	0.384	0.384	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

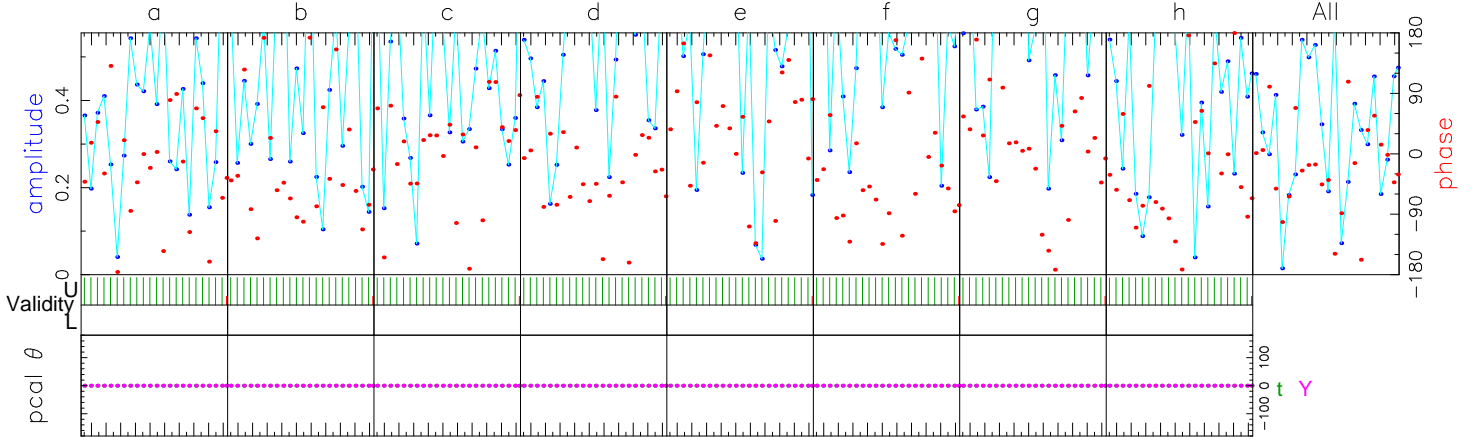
t: az 298.0 el 51.7 pa 88.1 Y: az 58.7 el 31.2 pa -62.2 u,v (fr/asec) 12197.445 -3391.345 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tY..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tY.W.139.2L2HSR



Fringe quality 9
SNR 12.2
Int time 582.429
Amp 0.185
Phase -15.0
PFD 2.9e-25
Delays (us)
SBD -0.033417
MBD 0.000894
Fringe rate (Hz)
-0.023846
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154017.41
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:045:103518
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

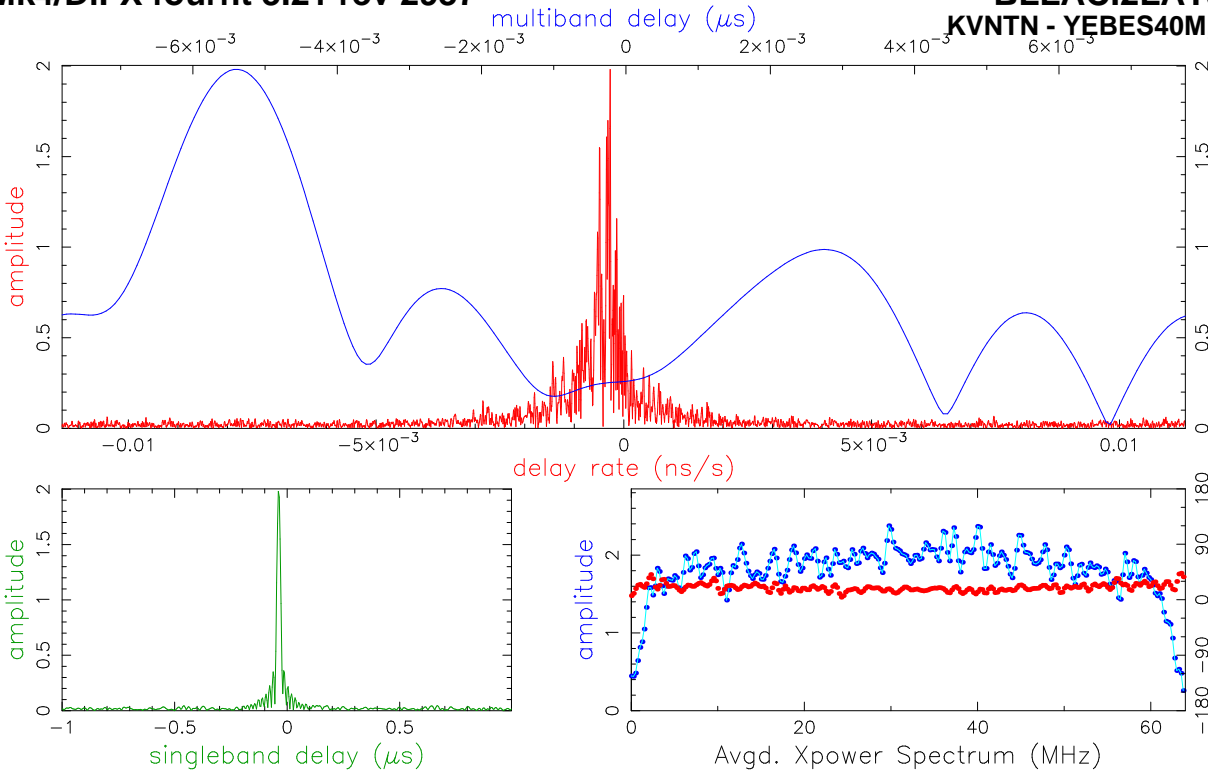


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-13.7	-71.4	26.9	-27.3	53.3	-52.8	11.3	-77.3	Phase	-15.0
	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	Ampl.	0.2
	250.7	248.5	248.8	247.9	247.7	247.8	247.7	246.4	Sbd box	248.4
U/L	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
t:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	5.16171707227E+03	Apriori delay (usec)	5.16174742817E+03	Resid mbdelay (usec)	8.94101E-04	+/-	8.9E-05
Sband delay (usec)	5.16171401117E+03	Apriori clock (usec)	4.9355175E+01	Resid sbdelay (usec)	-3.34170E-02	+/-	7.1E-04
Phase delay (usec)	5.16174742768E+03	Apriori clockrate (us/s)	1.9789999E-06	Resid phdelay (usec)	-4.84491E-07	+/-	3.0E-07
Delay rate (us/s)	-1.58647300461E+00	Apriori rate (us/s)	-1.5864727279E+00	Resid rate (us/s)	-2.76824E-07	+/-	9.0E-10
Total phase (deg)	151.4	Apriori accel (us/s/s)	-3.48629705212E-05	Resid phase (deg)	-15.0	+/-	9.4

ph/seg (deg)	67.5	RMS	22.5	Theor.	0.185 +/- 0.015	PCal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	114.1	Search (4096X32)	0.181	Amplitude	0.185 +/- 0.015	PCal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	51.2	Interp.	0.000	Search	0.181	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	47.2	Inc. seg. avg.	0.309	Inc. seg. avg.	0.309	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	0.240	Inc. frq. avg.	0.240	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

t: az 298.0 el 51.7 pa 88.1 Y: az 58.7 el 31.2 pa -62.2 u,v (fr/asec) 12197.445 -3391.345 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tY..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tY.W.140.2L2HSR

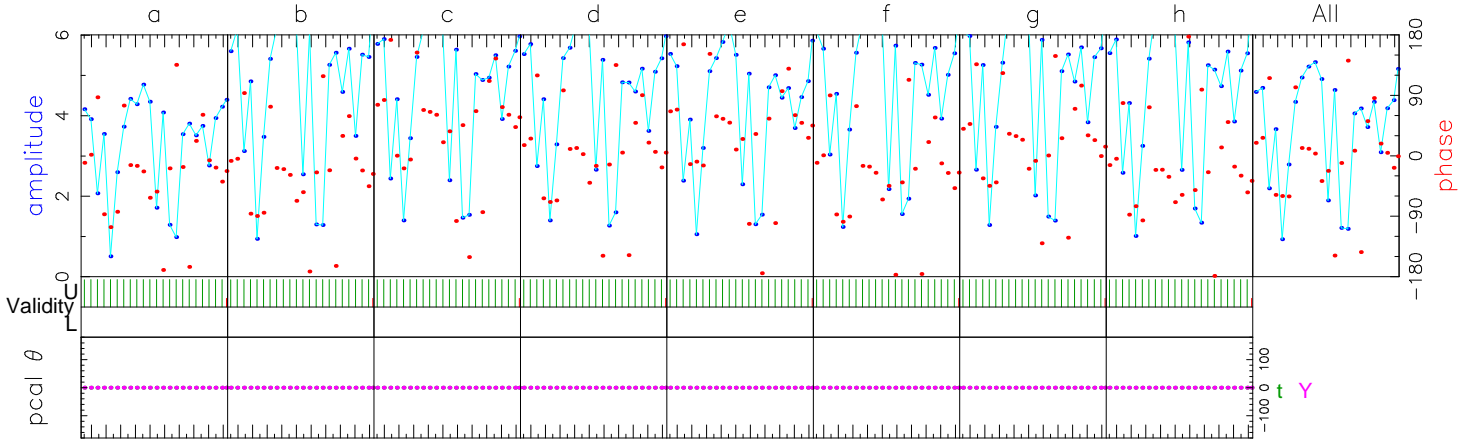


Fringe quality 2

SNR 132.2
Int time 582.429
Amp 2.003
Phase 6.9
PFD 0.0e+00
Delays (us)
SBD -0.037697
MBD -0.005365
Fringe rate (Hz)
-0.023916
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154017.41
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:045:103546
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

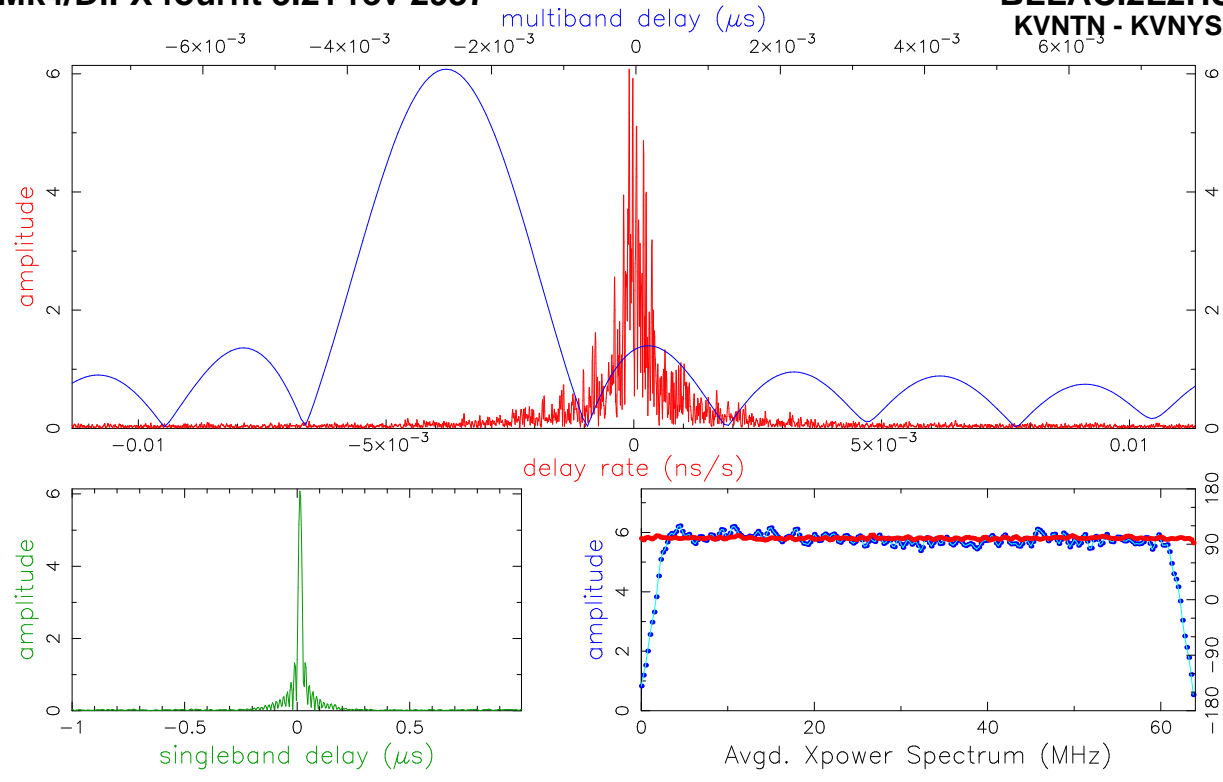


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-19.6	-22.4	64.5	6.8	52.6	-20.1	24.8	-25.9	Phase	6.9
	1.8	2.5	2.5	2.4	2.2	2.5	2.6	2.6	Ampl.	2.4
	249.1	246.8	247.1	247.0	246.5	246.7	246.9	246.9	Sbd box	247.3
U/L	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
t:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
t	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)	5.16171081355E+03		Apriori delay (usec)		5.16174742817E+03		Resid mbdelay (usec)		-5.36462E-03	+/- 8.2E-06
Sband delay (usec)	5.16170973092E+03		Apriori clock (usec)		4.9355175E+01		Resid sbdelay (usec)		-3.76972E-02	+/- 6.5E-05
Phase delay (usec)	5.16174742839E+03		Apriori clockrate (us/s)		1.9789999E-06		Resid phdelay (usec)		2.21640E-07	+/- 2.8E-08
Delay rate (us/s)	-1.58647300543E+00		Apriori rate (us/s)		-1.58647272779E+00		Resid rate (us/s)		-2.77639E-07	+/- 8.3E-11
Total phase (deg)	173.3		Apriori accel (us/s/s)		-3.48629705212E-05		Resid phase (deg)		6.9	+/- 0.9

	RMS	Theor.	Amplitude	2.003 +/- 0.015	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	70.7	2.1	Search (4096X32)	1.958	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	107.2	3.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	38.9	1.2	Inc. seg. avg.	3.679	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	22.2	2.1	Inc. frq. avg.	2.375	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
					nlags: 256	t_cohere infinite

t: az 298.0 el 51.7 pa 88.1 Y: az 58.7 el 31.2 pa -62.2 u,v (fr/asec) 12197.445 -3391.345 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tY..2LATJ8 Output file: /Exps/c222c/v1/3mm/3001/No0005/tY.W.14.2LATJ8

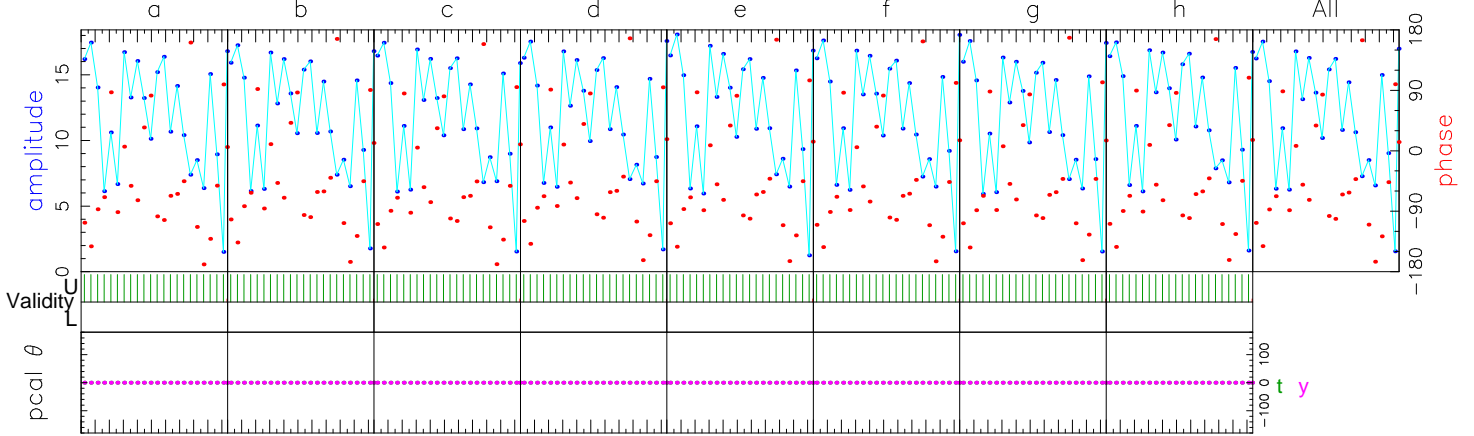


Fringe quality 5

SNR 411.4
Int time 599.957
Amp 6.142
Phase -80.0
PFD 0.0e+00
Delays (us)
SBD 0.013009
MBD -0.002632
Fringe rate (Hz)
-0.008228
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154000.00
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:040:223642
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
	-81.9	-76.7	-83.6	-77.1	-79.4	-81.7	-79.5	-80.3	Phase	-80.0
	6.1	6.0	6.1	6.0	6.2	6.1	6.0	6.2	Ampl.	6.1
	260.3	260.3	260.3	260.4	260.2	260.3	260.4	260.3	Sbd box	260.3
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
y	0	0	0	0	0	0	0	0	PC freqs	
ty	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
ty	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
t	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)	-3.43500437469E+02		Apriori delay (usec)		-3.43513430555E+02		Resid mbdelay (usec)		-2.63191E-03	+/- 2.6E-06
Sband delay (usec)	-3.43500421555E+02		Apriori clock (usec)		3.2346821E+00		Resid sbdelay (usec)		1.30090E-02	+/- 2.1E-05
Phase delay (usec)	-3.43513433135E+02		Apriori clockrate (us/s)		2.0599998E-07		Resid phdelay (usec)		-2.58053E-06	+/- 9.0E-09
Delay rate (us/s)	-3.25115252213E-02		Apriori rate (us/s)		-3.25114297045E-02		Resid rate (us/s)		-9.55168E-08	+/- 2.6E-11
Total phase (deg)			Apriori accel (us/s/s)		-2.77602187469E-06		Resid phase (deg)		-80.0	+/- 0.3

ph/seg (deg) 80.4 0.7
amp/seg (%) 114.2 1.2
ph/frq (deg) 2.5 0.4
amp/frq (%) 1.4 0.7

RMS Theor. Amplitude 6.142 +/- 0.015
Search (4096X32) 5.944
Interp. 0.000
Inc. seg. avg. 11.716
Inc. frq. avg. 6.083

Group delay (usec)(sbd) -3.43500437469E+02
Sband delay (usec) -3.43500421555E+02
Phase delay (usec) -3.43513433135E+02
Delay rate (us/s) -3.25115252213E-02
Total phase (deg) -46.9

Apriori delay (usec) -3.43513430555E+02
Apriori clock (usec) 3.2346821E+00
Apriori clockrate (us/s) 2.0599998E-07
Apriori rate (us/s) -3.25114297045E-02
Apriori accel (us/s/s) -2.77602187469E-06

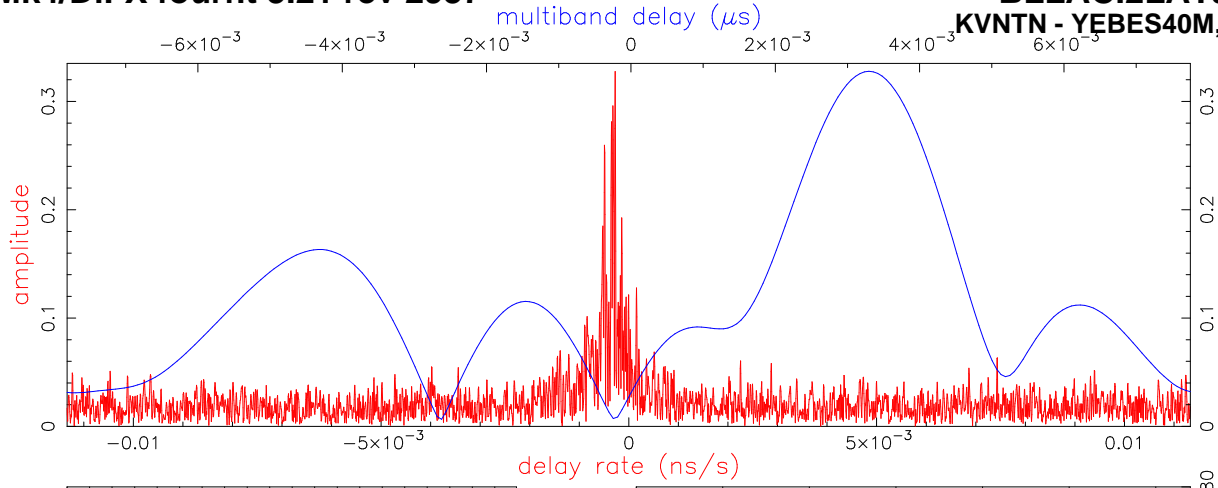
Resid mbdelay (usec) -2.63191E-03
Resid sbdelay (usec) 1.30090E-02
Resid phdelay (usec) -2.58053E-06
Resid rate (us/s) -9.55168E-08
Resid phase (deg) -80.0

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

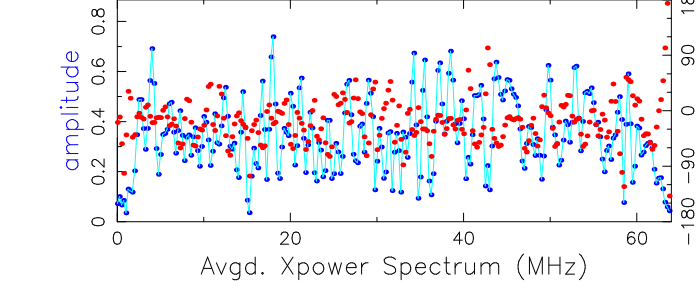
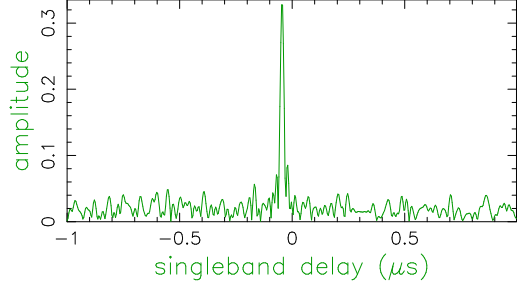
sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

t: az 298.0 el 51.7 pa 88.1 y: az 293.1 el 53.2 pa 80.2 u,v (fr/asec) 243.544 -601.179 simultaneous interpolator

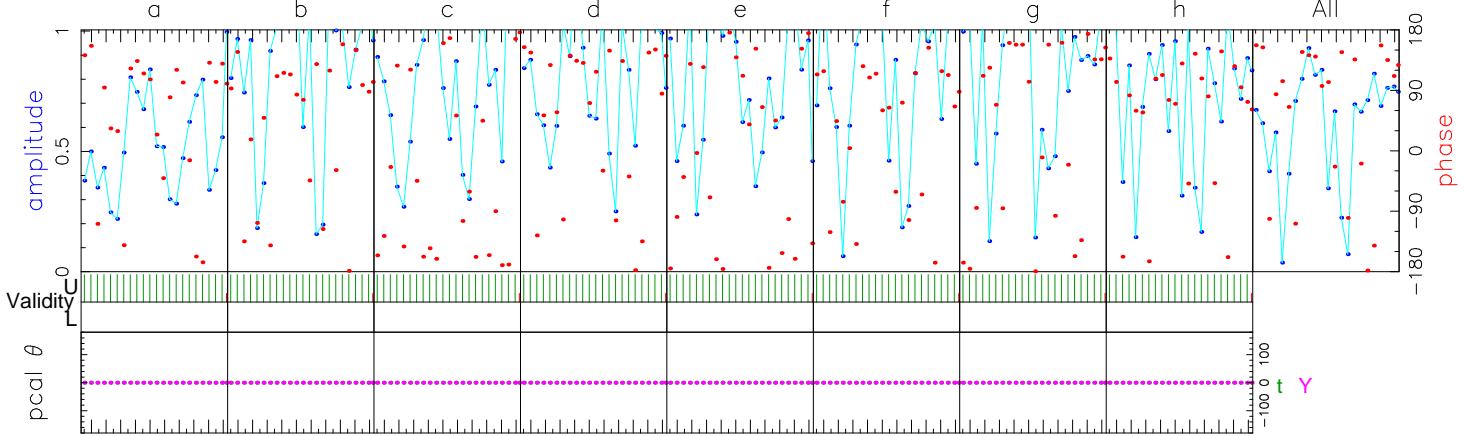
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/ty..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/ty.W.17.2L2HSR



Fringe quality 8
SNR 22.1
Int time 582.429
Amp 0.335
Phase 143.3
PFD 0.0e+00
Delays (us)
SBD -0.044946
MBD 0.003343
Fringe rate (Hz)
-0.023873
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154017.41
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:045:103554
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

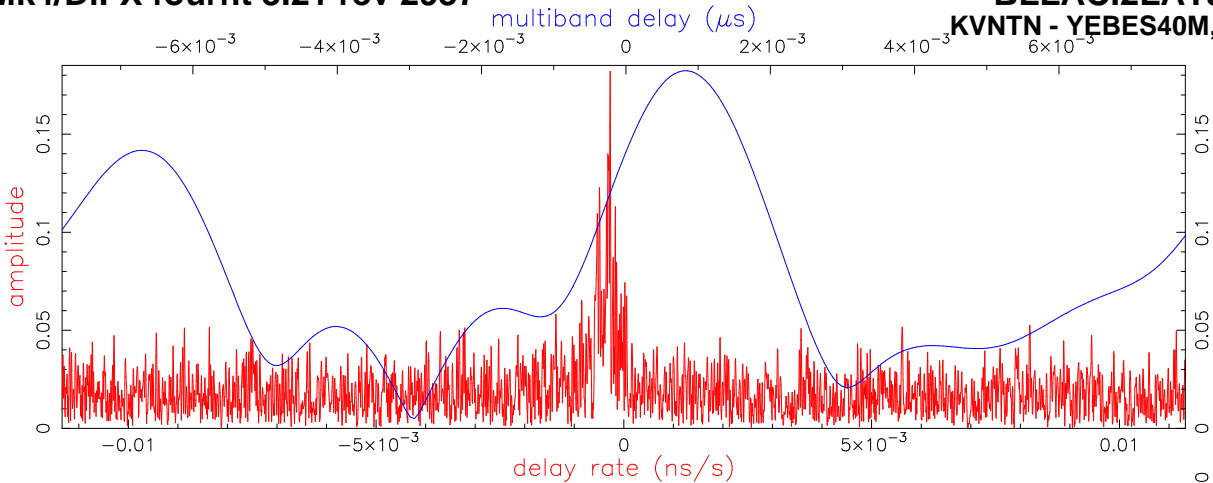


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	124.2	114.2	-160.6	142.2	178.3	112.8	165.2	107.6	Phase	143.3
	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.4	Ampl.	0.4
	247.4	244.8	245.1	245.0	245.0	245.1	245.1	245.2	Sbd box	245.5
U/L	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
t:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	5.16170389630E+03	Apriori delay (usec)	5.16174742817E+03	Resid mbdelay (usec)	3.34313E-03	+/-	4.9E-05
Sband delay (usec)	5.16170248192E+03	Apriori clock (usec)	4.9355175E+01	Resid sbdelay (usec)	-4.49462E-02	+/-	3.9E-04
Phase delay (usec)	5.16174743279E+03	Apriori clockrate (us/s)	1.9789999E-06	Resid phdelay (usec)	4.62085E-06	+/-	1.7E-07
Delay rate (us/s)	-1.58647300494E+00	Apriori rate (us/s)	-1.58647272779E+00	Resid rate (us/s)	-2.77146E-07	+/-	5.0E-10
Total phase (deg)	309.7	Apriori accel (us/s/s)	-3.48629705212E-05	Resid phase (deg)	143.3	+/-	5.2

ph/seg (deg)	RMS 72.4	Theor. 12.4	Amplitude Search (4096X32)	0.335 +/- 0.015	0.325	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	107.9	21.7	Interp.	0.000	0.325	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	37.1	7.3	Inc. seg. avg.	0.591	0.325	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	23.0	12.8	Inc. frq. avg.	0.384	0.325	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
					0.384	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

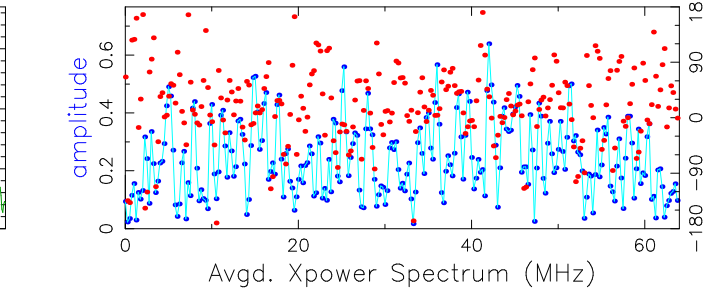
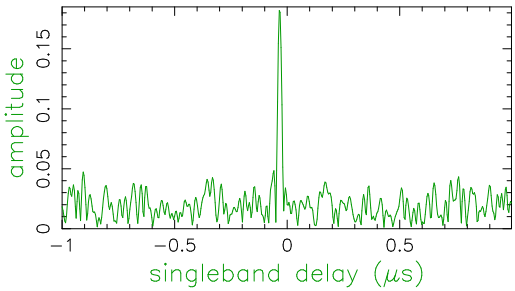
t: az 298.0 el 51.7 pa 88.1 Y: az 58.7 el 31.2 pa -62.2 u,v (fr/asec) 12197.445 -3391.345 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tY..2LATJ8 Output file: /Exps/c222c/v1/3mm/3001/No0005/tY.W.17.2LATJ8



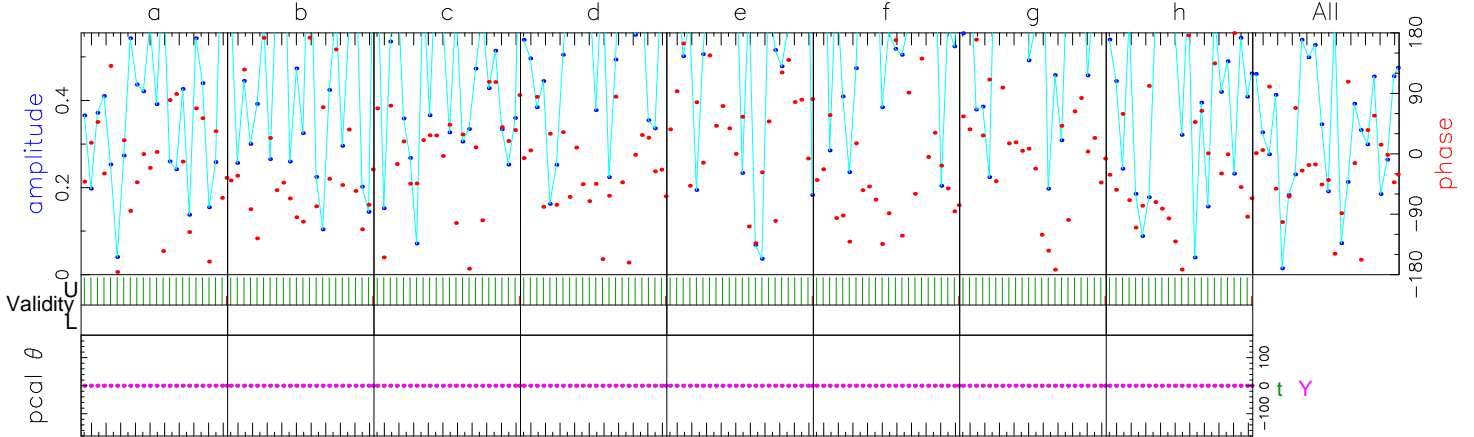
Fringe quality 9

SNR 12.2
Int time 582.429
Amp 0.185
Phase -15.0
PFD 2.9e-25
Delays (us)
SBD -0.033417
MBD 0.000894
Fringe rate (Hz)
-0.023846
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154017.41
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:045:103602
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



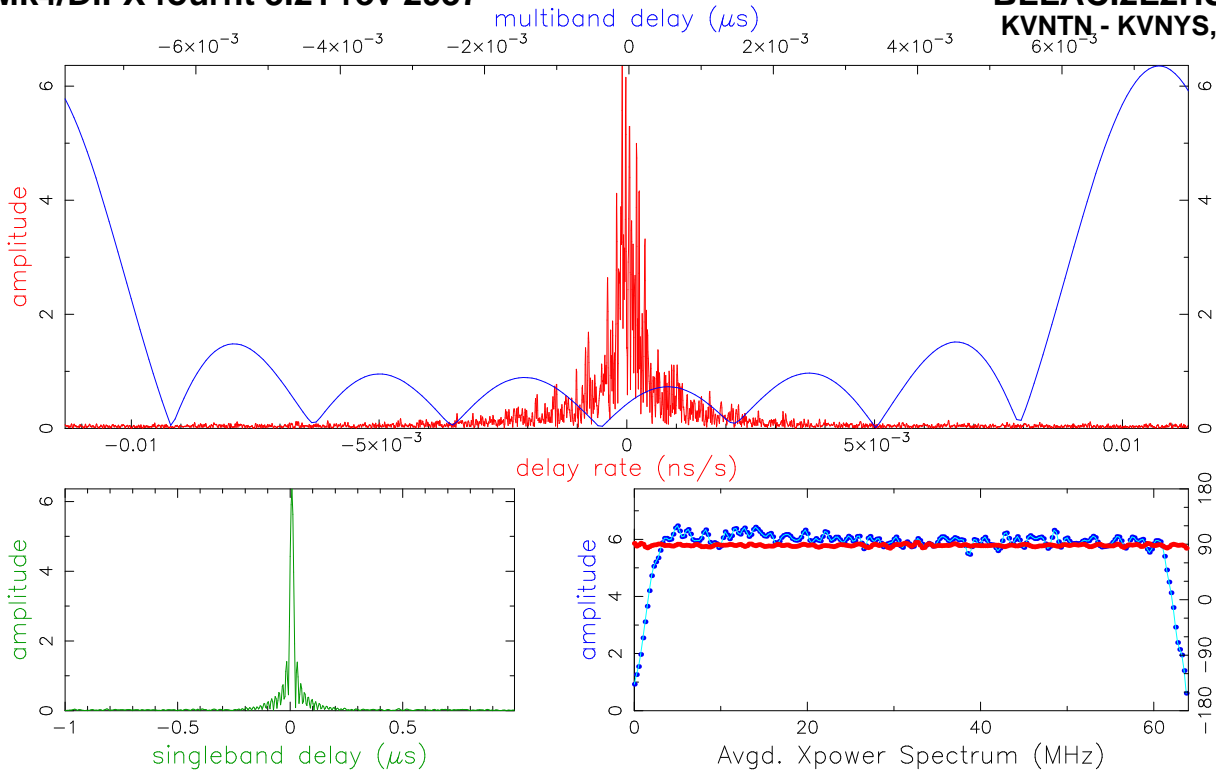
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-13.7	-71.4	26.9	-27.3	53.3	-52.8	11.3	-77.3	Phase	-15.0
	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	Ampl.	0.2
	250.7	248.5	248.8	247.9	247.7	247.8	247.7	246.4	Sbd box	248.4
U/L	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	1138/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
t:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	5.16171707227E+03	Apriori delay (usec)	5.16174742817E+03	Resid mbdelay (usec)	8.94101E-04	+/-	8.9E-05
Sband delay (usec)	5.16171401117E+03	Apriori clock (usec)	4.9355175E+01	Resid sbdelay (usec)	-3.34170E-02	+/-	7.1E-04
Phase delay (usec)	5.16174742768E+03	Apriori clockrate (us/s)	1.9789999E-06	Resid phdelay (usec)	-4.84491E-07	+/-	3.0E-07
Delay rate (us/s)	-1.58647300461E+00	Apriori rate (us/s)	-1.58647272779E+00	Resid rate (us/s)	-2.76824E-07	+/-	9.0E-10
Total phase (deg)	151.4	Apriori accel (us/s/s)	-3.48629705212E-05	Resid phase (deg)	-15.0	+/-	9.4

ph/seg (deg)	RMS 67.5	Theor. 22.5	Amplitude Search (4096X32)	0.181	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	114.1	39.3	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)	51.2	13.3	Inc. seg. avg.	0.309	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s)	-0.011	0.011
amp/frq (%)	47.2	23.2	Inc. frq. avg.	0.240	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00

t: az 298.0 el 51.7 pa 88.1 Y: az 58.7 el 31.2 pa -62.2 u,v (fr/asec) 12197.445 -3391.345 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tY..2LATJ8 Output file: /Exps/c222c/v1/3mm/3001/No0005/tY.W.19.2LATJ8

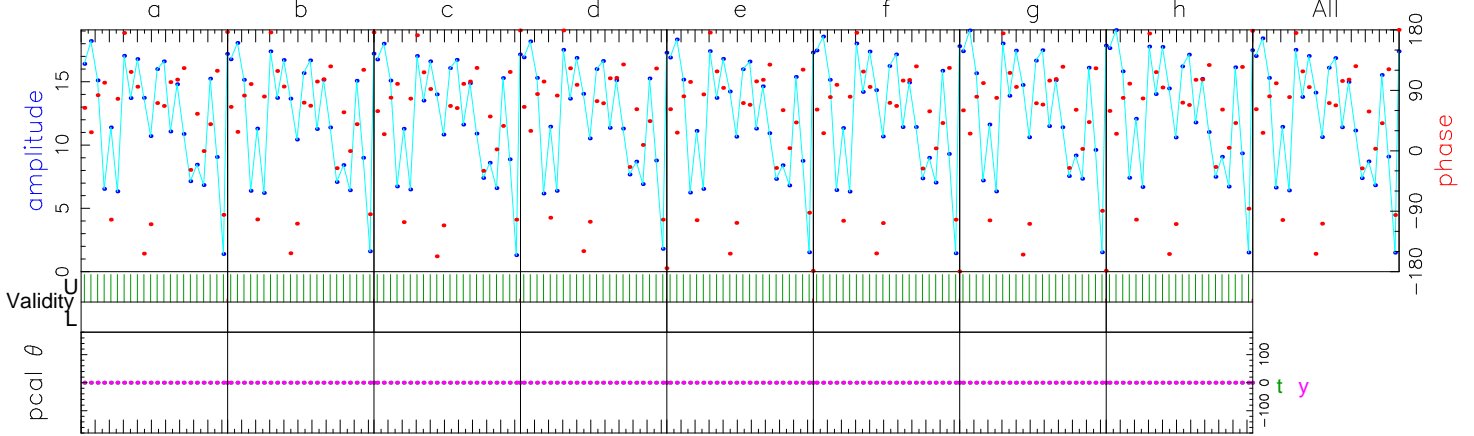


Fringe quality 5

SNR 426.3
Int time 599.957
Amp 6.364
Phase 88.3
PFD 0.0e+00
Delays (us)
SBD 0.007349
MBD 0.007344
Fringe rate (Hz)
-0.008223
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154000.00
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:040:223648
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



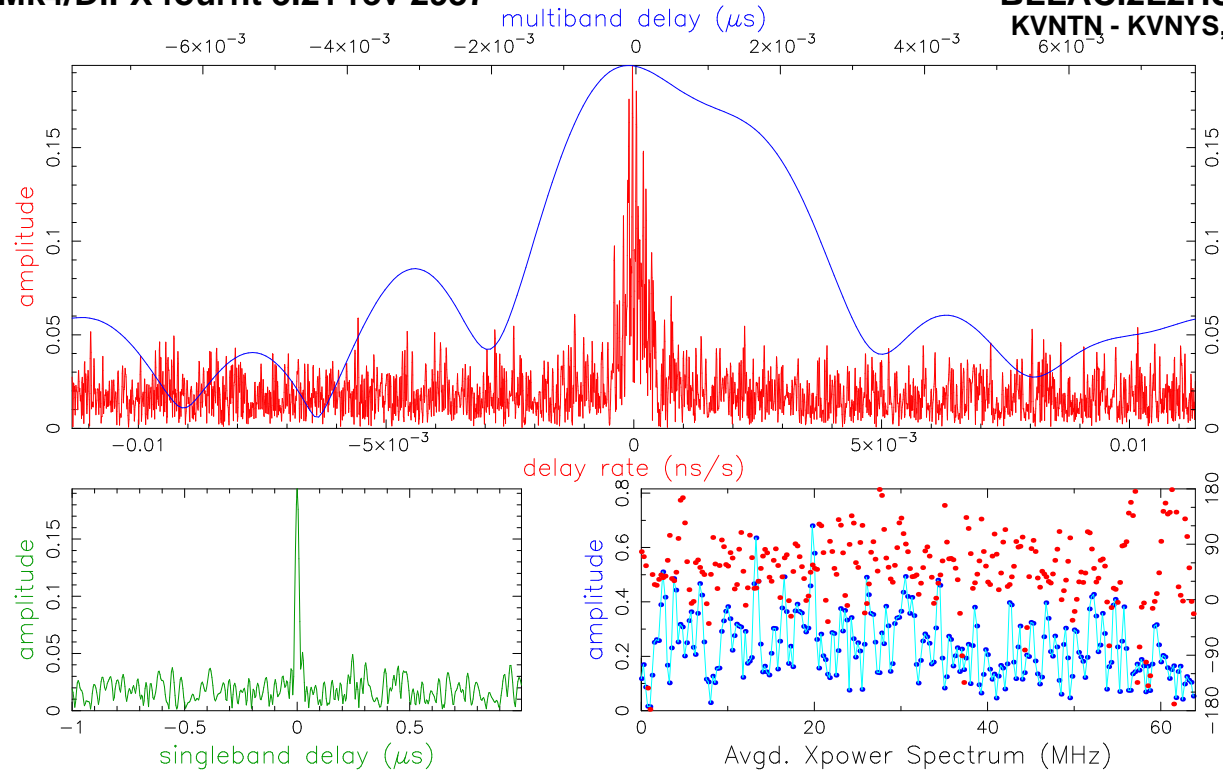
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0		
t	0	0	0	0	0	0	0	0		
y	0	0	0	0	0	0	0	0		
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.43506086438E+02									
Sband delay (usec)	-3.43506081055E+02									
Phase delay (usec)	-3.43513427706E+02									
Delay rate (us/s)	-3.25115251649E-02									
Total phase (deg)			-238.5							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									88.3	+/- 0.3
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Sample rate (MSamp/s):	128									
Data rate (Mb/s):	2048									
nlags:	256									
t_cohere:	infinite									
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

ph/seg (deg) 80.0 0.6
amp/seg (%) 115.7 1.1
ph/frq (deg) 1.9 0.4
amp/frq (%) 2.0 0.7

t: az 298.0 el 51.7 pa 88.1
y: az 293.1 el 53.2 pa 80.2
u,v (fr/asec) 243.544 -601.179

Control file: cf_1234_gmva
Input file: /Exps/c222c/v1/3mm/3001/No0005/ty..2L2HSR
Output file: /Exps/c222c/v1/3mm/3001/No0005/ty.W.39.2L2HSR

simultaneous interpolator

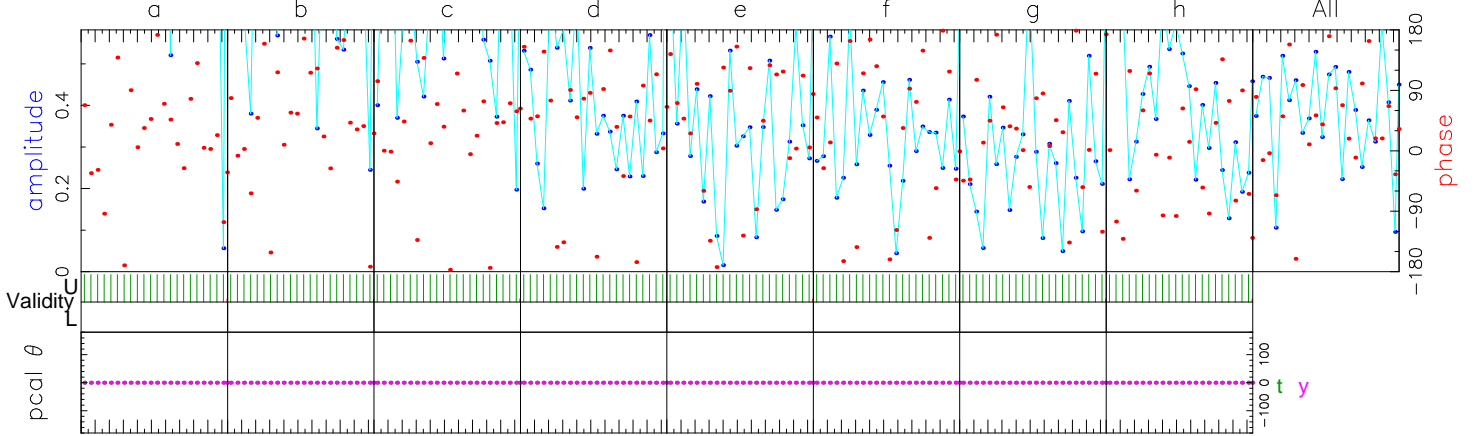


Fringe quality 9

SNR 13.0
Int time 599.957
Amp 0.194
Phase 52.5
PFD 1.5e-29
Delays (us)
SBD -0.000273
MBD -0.000120
Fringe rate (Hz)
-0.002201
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154000.00
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:040:223657
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

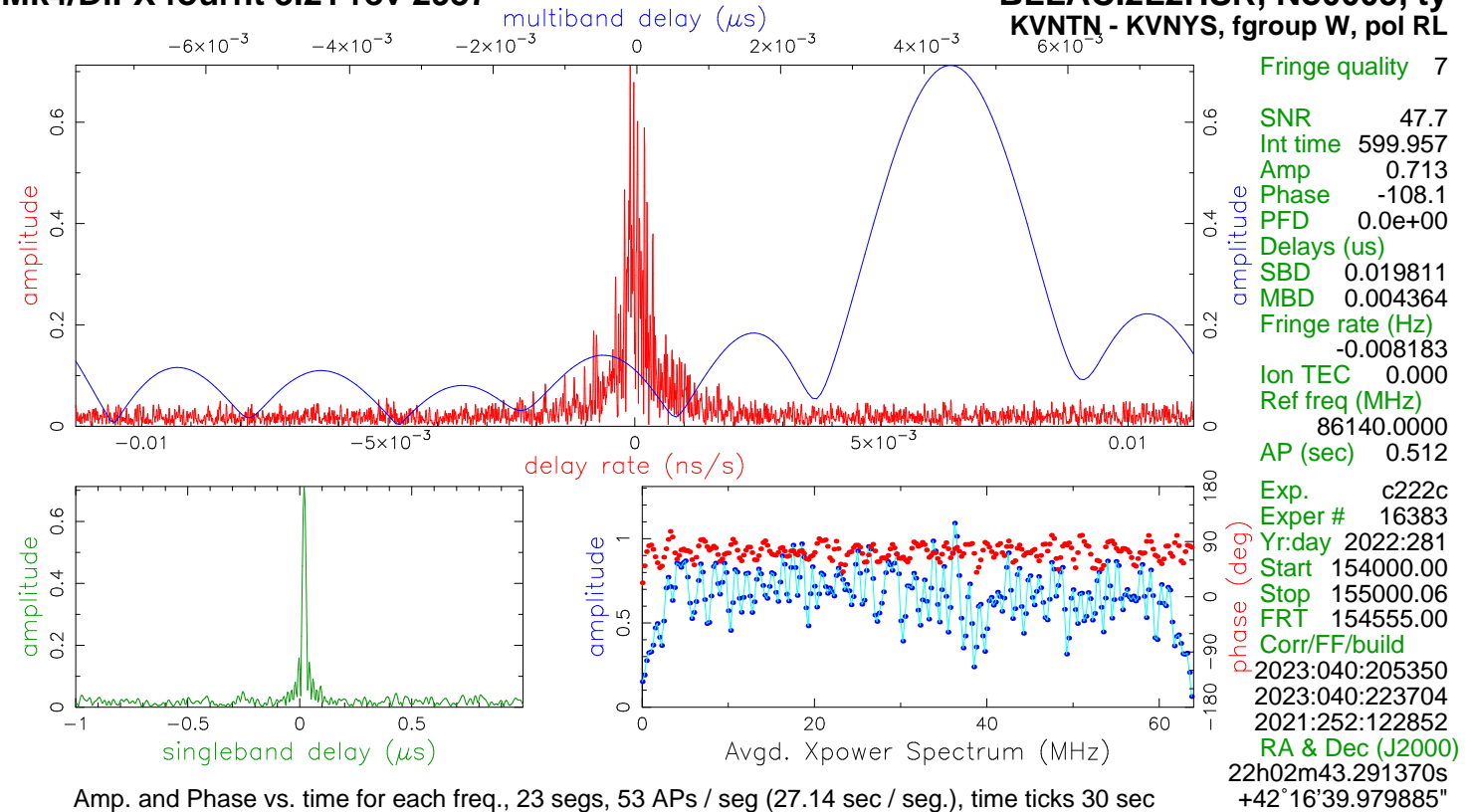


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0		
t	0	0	0	0	0	0	0	0		
y	0	0	0	0	0	0	0	0		
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.43513550342E+02				-3.43513430555E+02				-1.19787E-04	+/- 8.4E-05
Sband delay (usec)	-3.43513703305E+02					3.2346821E+00			-2.72750E-04	+/- 6.6E-04
Phase delay (usec)	-3.43513428863E+02					2.0599998E-07			1.69208E-06	+/- 2.8E-07
Delay rate (us/s)	-3.25114552555E-02					-3.25114297045E-02			-2.55509E-08	+/- 8.2E-10
Total phase (deg)			-274.4			-2.77602187469E-06			52.5	+/- 8.8
	RMS	Theor.	Amplitude	0.194 +/- 0.015						
ph/seg (deg)	68.8	21.2	Search (4096X32)	0.189						
amp/seg (%)	117.9	36.9	Interp.	0.000						
ph/frq (deg)	52.2	12.5	Inc. seg. avg.	0.360						
amp/frq (%)	72.8	21.8	Inc. frq. avg.	0.223						

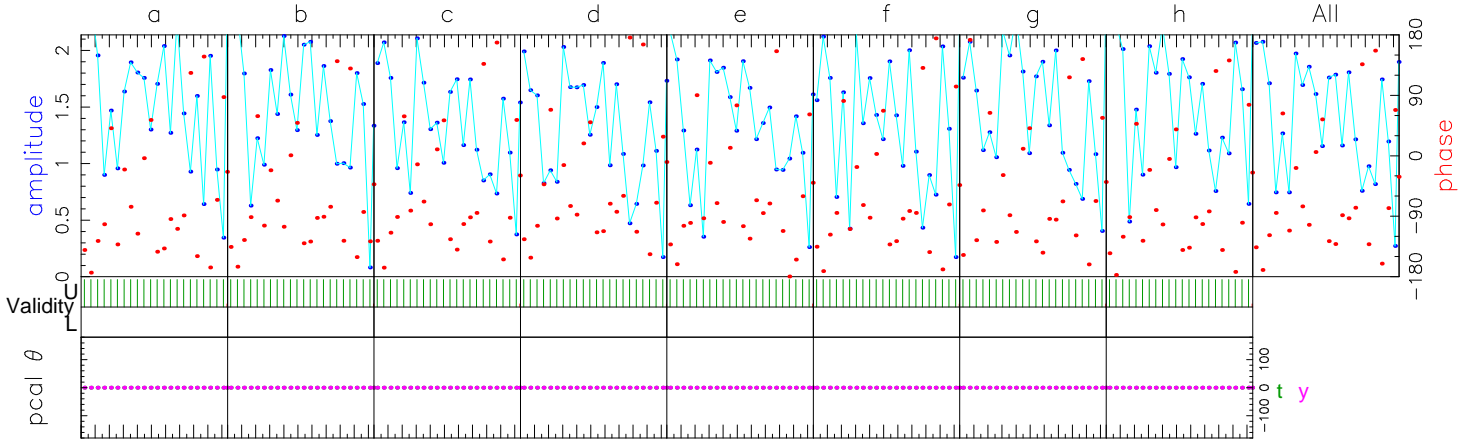
Group delay (usec)(sbd) -3.43513550342E+02 Apriori delay (usec) -3.43513430555E+02 Resid mbdelay (usec) -1.19787E-04 +/- 8.4E-05
 Sband delay (usec) -3.43513703305E+02 Apriori clock (usec) 3.2346821E+00 Resid sbdelay (usec) -2.72750E-04 +/- 6.6E-04
 Phase delay (usec) -3.43513428863E+02 Apriori clockrate (us/s) 2.0599998E-07 Resid phdelay (usec) 1.69208E-06 +/- 2.8E-07
 Delay rate (us/s) -3.25114552555E-02 Apriori rate (us/s) -3.25114297045E-02 Resid rate (us/s) -2.55509E-08 +/- 8.2E-10
 Total phase (deg) -274.4 Apriori accel (us/s/s) -2.77602187469E-06 Resid phase (deg) 52.5 +/- 8.8

ph/seg (deg) 68.8 Theor. 21.2 Amplitude 0.194 +/- 0.015 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 117.9 36.9 Search (4096X32) 0.189 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 52.2 12.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 72.8 21.8 Inc. seg. avg. 0.360 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.223 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

t: az 298.0 el 51.7 pa 88.1 y: az 293.1 el 53.2 pa 80.2 u,v (fr/asec) 243.544 -601.179 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/ty..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/ty.W.74.2L2HSR

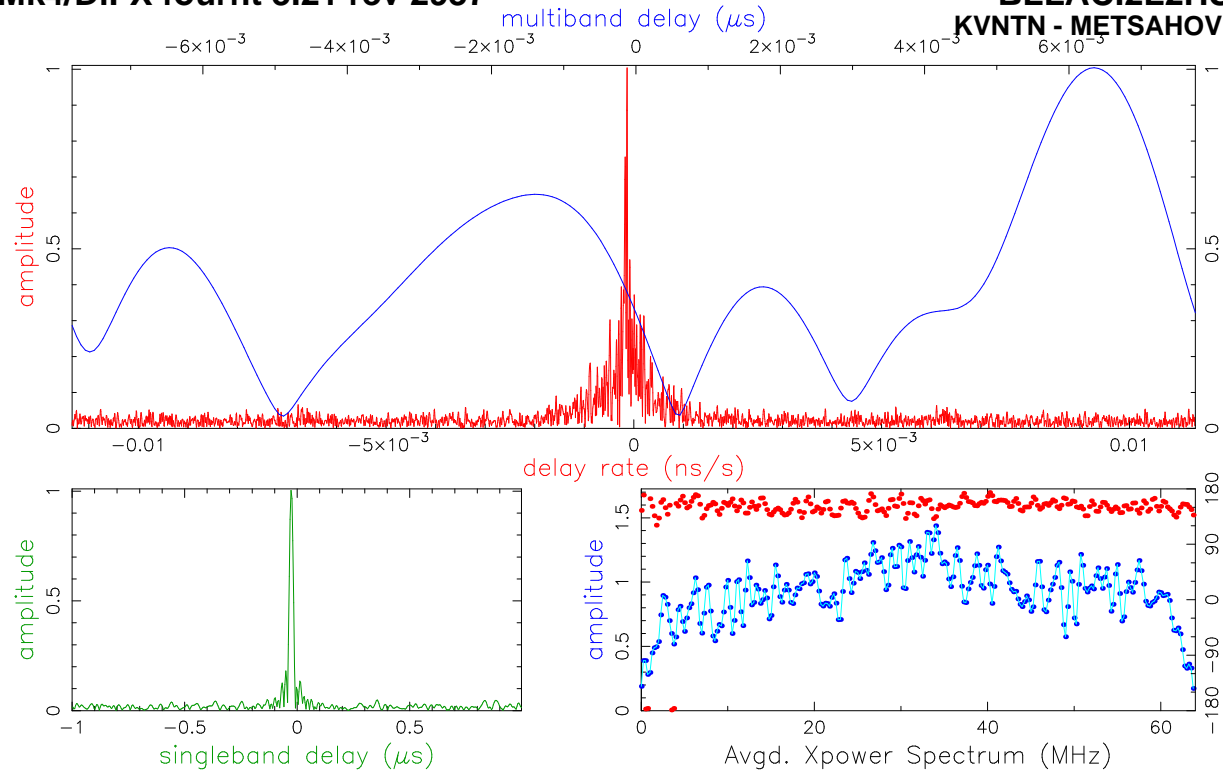


Amp. and Phase vs. time for each freq., 23 segs, 53 APs / seg (27.14 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-120.0	-109.9	-105.8	-88.7	-100.3	-109.0	-110.3	-117.6	Phase	-108.1
	0.8	0.8	0.7	0.7	0.7	0.6	0.7	0.8	Ampl.	0.7
	261.8	262.0	262.4	262.3	261.9	262.2	262.1	261.8	Sbd box	262.1
U/L	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	1172/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
y	0	0	0	0	0	0	0	0	PC freqs	
ty	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
ty	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.43493441407E+02		Apriori delay (usec)	-3.43513430555E+02	Resid mbdelay (usec)	4.36415E-03	+/-	2.3E-05		
Sband delay (usec)	-3.43493619555E+02		Apriori clock (usec)	3.2346821E+00	Resid sbdelay (usec)	1.98110E-02	+/-	1.8E-04		
Phase delay (usec)	-3.43513434040E+02		Apriori clockrate (us/s)	2.0599998E-07	Resid phdelay (usec)	-3.48465E-06	+/-	7.7E-08		
Delay rate (us/s)	-3.25115247030E-02		Apriori rate (us/s)	-3.25114297045E-02	Resid rate (us/s)	-9.49984E-08	+/-	2.2E-10		
Total phase (deg)		-74.9	Apriori accel (us/s/s)	-2.77602187469E-06	Resid phase (deg)	-108.1	+/-	2.4		

RMS Theor. Amplitude 0.713 +/- 0.015
 ph/seg (deg) 80.6 5.8 Search (4096X32) 0.708 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 117.4 10.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 10.7 3.4 Inc. seg. avg. 1.378 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 8.3 5.9 Inc. frq. avg. 0.721 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 t: az 298.0 el 51.7 pa 88.1 y: az 293.1 el 53.2 pa 80.2 u,v (fr/asec) 243.544 -601.179 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/ty..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/ty.W.91.2L2HSR

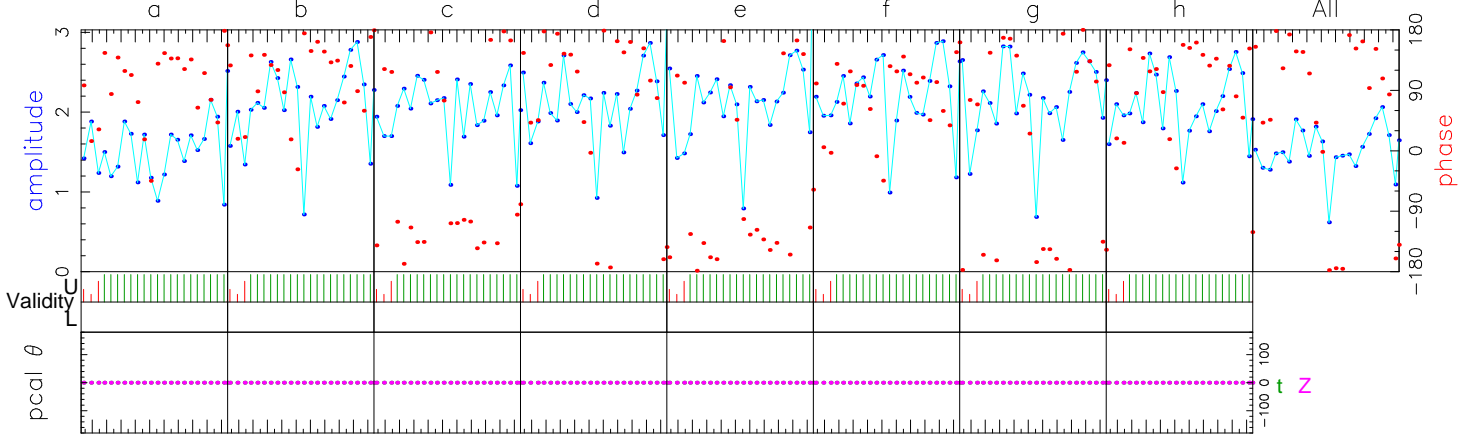


Fringe quality 2

SNR 64.6
Int time 546.759
Amp 1.010
Phase 136.8
PFD 0.0e+00
Delays (us)
SBD -0.026248
MBD 0.006372
Fringe rate (Hz)
-0.011874
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154013.31
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:040:223643
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

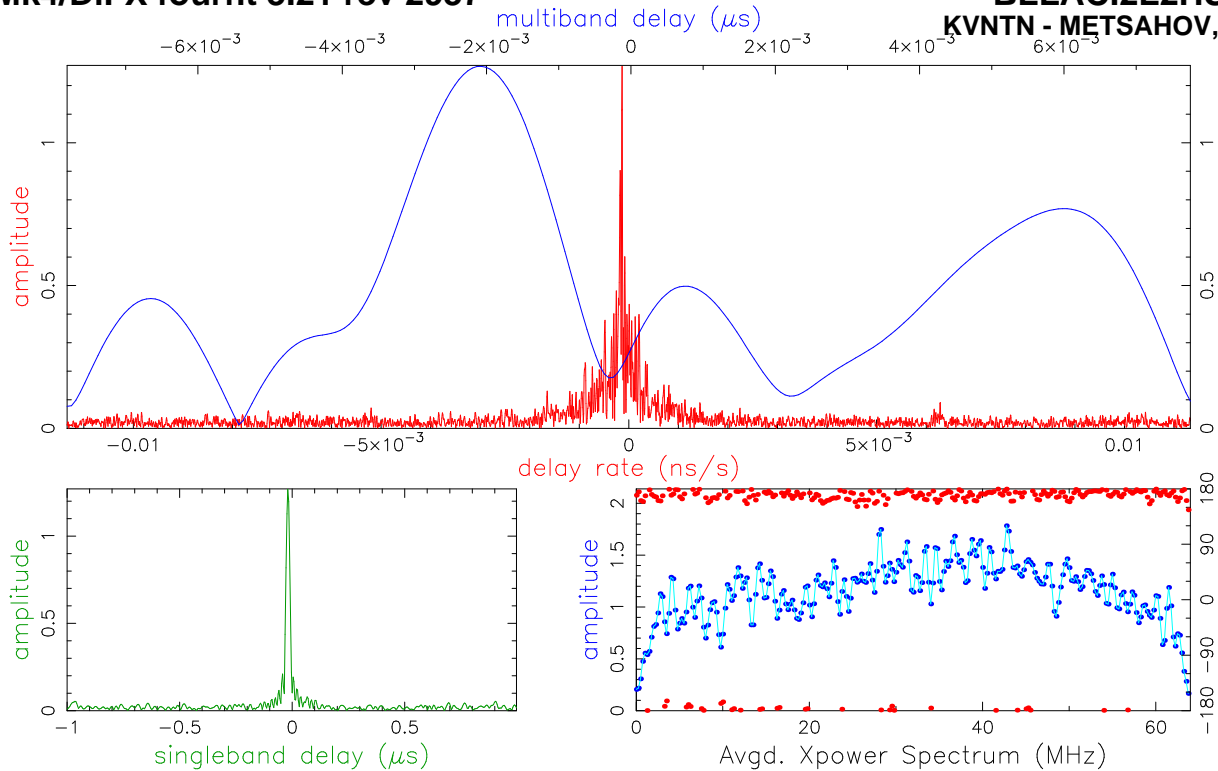


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
102.7	110.4	-151.6	136.3	-165.9	83.5	162.1	105.9	105.9	Phase	136.8
1.0	1.4	1.4	1.4	1.4	1.5	1.4	1.4	1.4	Ampl.	1.4
252.1	250.4	250.0	249.6	249.3	249.8	249.7	250.3	250.3	Sbd box	250.3
U/L 1102/0	1102/0	1102/0	1102/0	1102/0	1102/0	1102/0	1102/0	1102/0	APs used	
t 0	0	0	0	0	0	0	0	0	PC freqs	
Z 0	0	0	0	0	0	0	0	0	PC freqs	
t:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000	1000		
t W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
Z W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks	

Group delay (usec)(sbd)	-7.16631361021E+02	Apriori delay (usec)	-7.16606482833E+02	Resid mbdelay (usec)	6.37181E-03	+/-	1.7E-05
Sband delay (usec)	-7.16632731083E+02	Apriori clock (usec)	5.8065014E+00	Resid sbdelay (usec)	-2.62483E-02	+/-	1.3E-04
Phase delay (usec)	-7.16606478421E+02	Apriori clockrate (us/s)	4.2469999E-07	Resid phdelay (usec)	4.41198E-06	+/-	5.7E-08
Delay rate (us/s)	-1.18110571698E+00	Apriori rate (us/s)	-1.18110557913E+00	Resid rate (us/s)	-1.37847E-07	+/-	1.8E-10
Total phase (deg)	-18.4	Apriori accel (us/s/s)	-2.04529293629E-05	Resid phase (deg)	136.8	+/-	1.8

	RMS	Theor.	Amplitude	1.010 +/- 0.016	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	53.9	4.2	Search (4096X32)	0.997	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	60.0	7.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	49.5	2.5	Inc. seg. avg.	1.526	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	36.6	4.4	Inc. frq. avg.	1.355	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

t: az 298.0 el 51.7 pa 88.1 Z: az 93.8 el 53.1 pa -42.1 u,v (fr/asec) 9094.198 -3728.862 simultaneous interpolator

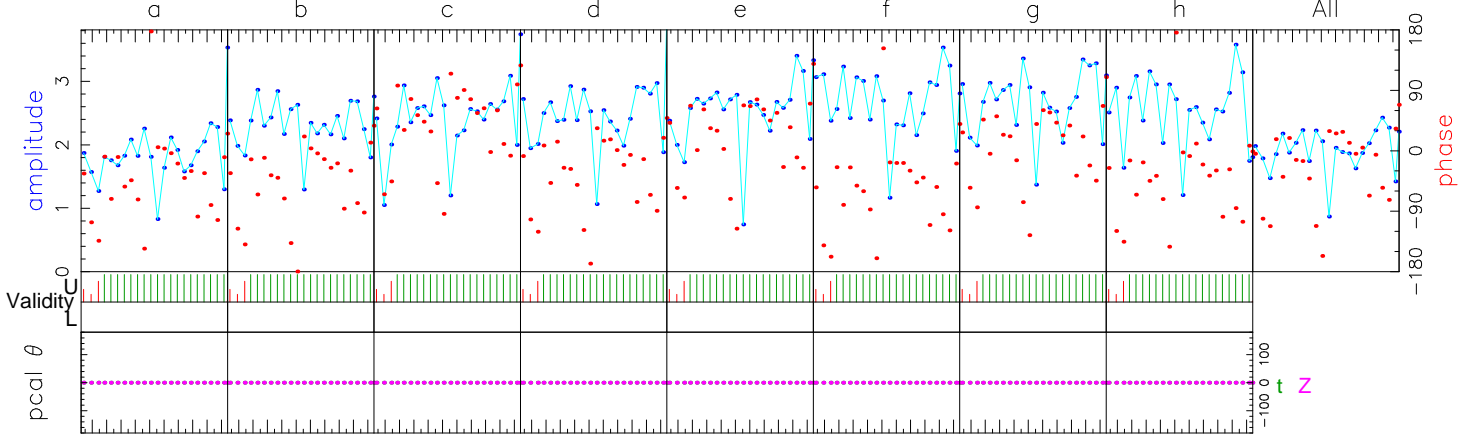


Fringe quality 2

SNR 81.3
Int time 546.759
Amp 1.271
Phase -21.9
PFD 0.0e+00
Delays (us)
SBD -0.018879
MBD -0.002075
Fringe rate (Hz)
-0.011834
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

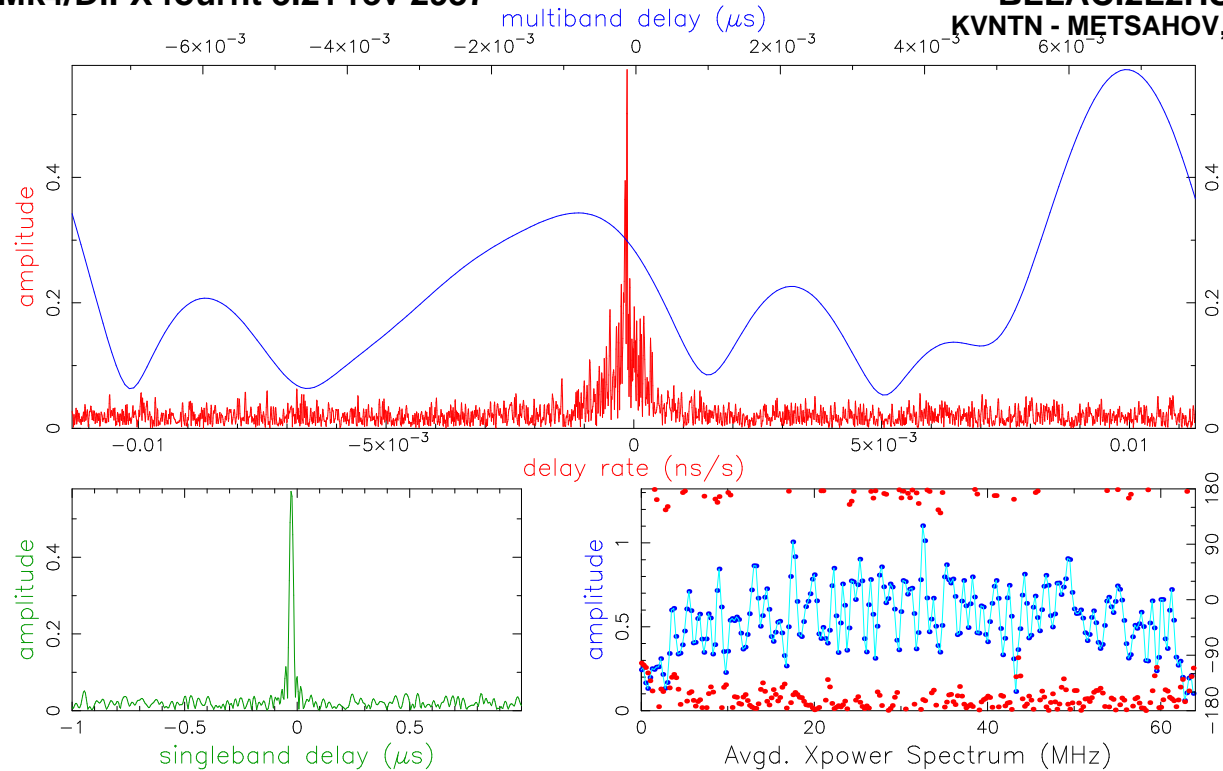
Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154013.31
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:040:223648
2021:252:122852
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

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



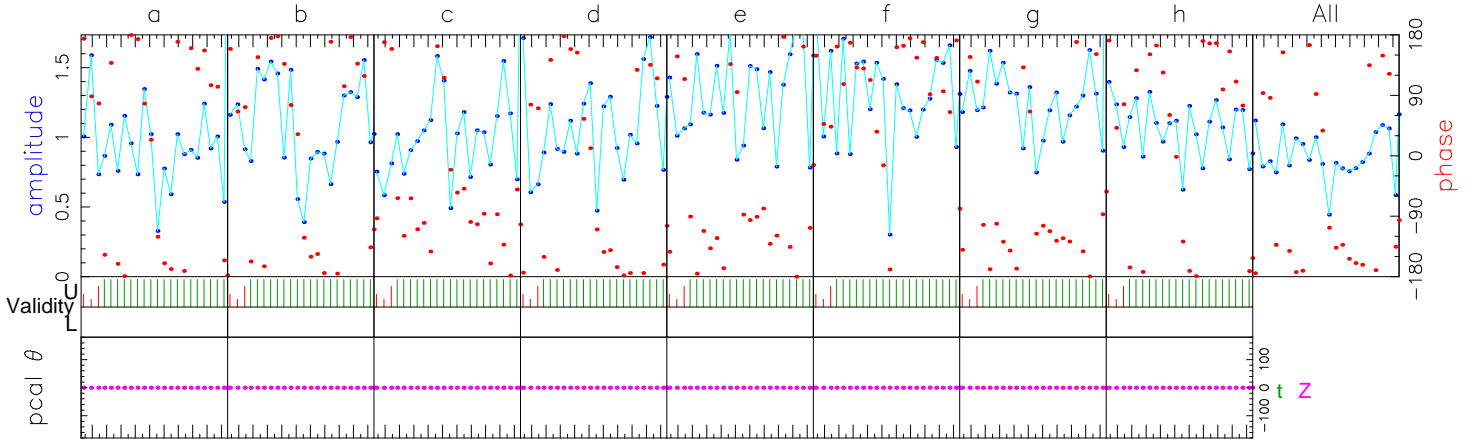
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-52.6	-44.3	42.7	-32.1	24.3	-67.4	9.6	-51.2	Phase	-21.9
	1.2	1.6	1.6	1.6	1.7	1.8	1.8	1.7	Ampl.	1.6
	253.6	252.3	251.8	251.4	251.3	251.6	251.5	252.5	Sbd box	252.2
U/L	1102/0	1102/0	1102/0	1102/0	1102/0	1102/0	1102/0	1102/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
t:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
t	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)	-7.16624182678E+02		Apriori delay (usec)		-7.16606482833E+02		Resid mbdelay (usec)		-2.07484E-03	+/- 1.3E-05
Sband delay (usec)	-7.16625362333E+02		Apriori clock (usec)		5.8065014E+00		Resid sbdelay (usec)		-1.88795E-02	+/- 1.1E-04
Phase delay (usec)	-7.16606483540E+02		Apriori clockrate (us/s)		4.2469999E-07		Resid phdelay (usec)		-7.07322E-07	+/- 4.5E-08
Delay rate (us/s)	-1.18110571651E+00		Apriori rate (us/s)		-1.18110557913E+00		Resid rate (us/s)		-1.37385E-07	+/- 1.4E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.04529293629E-05		Resid phase (deg)		-21.9	+/- 1.4

ph/seg (deg) 52.7 3.3 Search (4096X32) 1.252 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 57.2 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) 44.3 2.0 Inc. seg. avg. 1.909 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 29.8 3.5 Inc. frq. avg. 1.610 Data rate (Mbit/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 t: az 298.0 el 51.7 pa 88.1 Z: az 93.8 el 53.1 pa -42.1 u,v (fr/asec) 9094.198 -3728.862 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tZ...2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tZ.W.40.2L2HSR



Fringe quality 4
SNR 37.0
Int time 546.759
Amp 0.579
Phase 176.5
PFD 0.0e+00
Delays (us)
SBD -0.025882
MBD 0.006817
Fringe rate (Hz)
-0.011862
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154013.31
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:040:223657
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

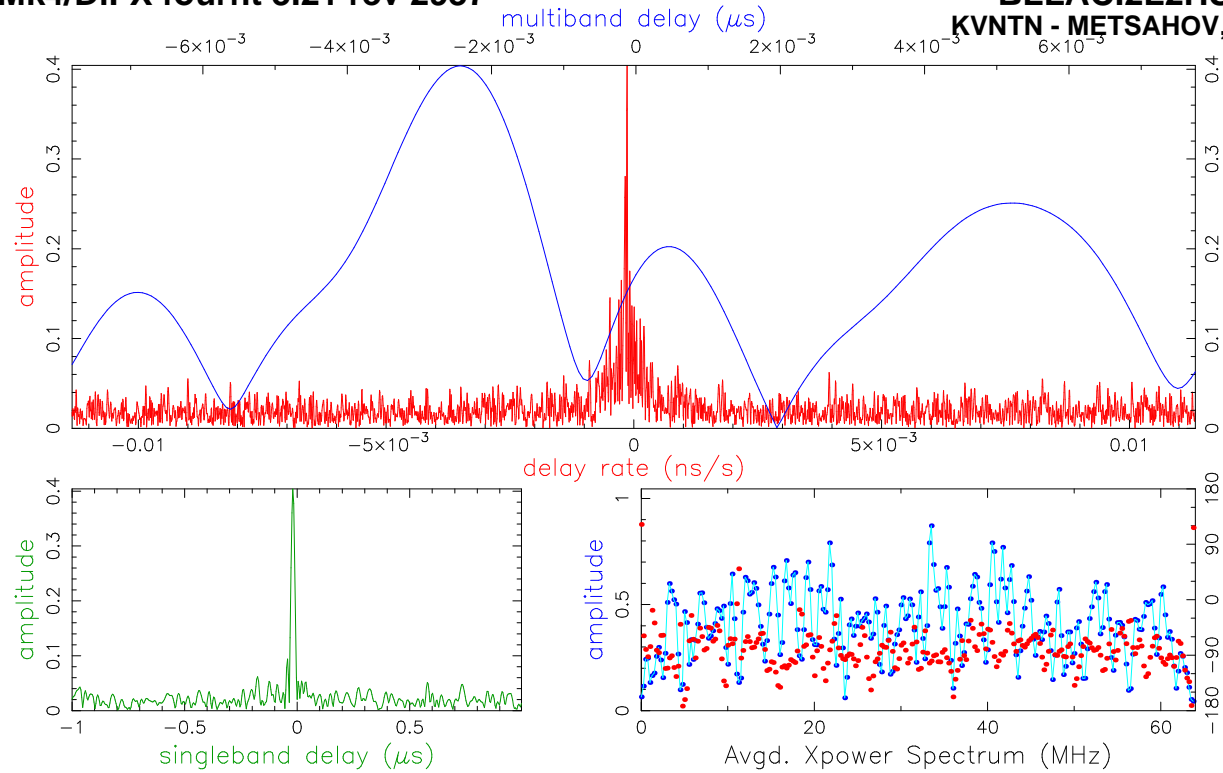


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	154.4	159.7	-112.5	166.8	-145.4	122.9	-148.0	146.0	Phase	176.5
	0.6	0.8	0.6	0.7	0.9	0.8	0.7	0.7	Ampl.	0.7
	251.8	250.2	249.8	249.5	249.7	249.9	249.9	250.7	Sbd box	250.4
U/L	1102/0	1102/0	1102/0	1102/0	1102/0	1102/0	1102/0	1102/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
t:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -7.16630915865E+02 Apriori delay (usec) -7.16606482833E+02 Resid mbdelay (usec) 6.81697E-03 +/- 2.9E-05
 Sband delay (usec) -7.16632364833E+02 Apriori clock (usec) 5.8065014E+00 Resid sbdelay (usec) -2.58820E-02 +/- 2.3E-04
 Phase delay (usec) -7.16606477140E+02 Apriori clockrate (us/s) 4.2469999E-07 Resid phdelay (usec) 5.69284E-06 +/- 1.0E-07
 Delay rate (us/s) -1.18110571684E+00 Apriori rate (us/s) -1.18110557913E+00 Resid rate (us/s) -1.37707E-07 +/- 3.1E-10
 Total phase (deg) 21.3 Apriori accel (us/s/s) -2.04529293629E-05 Resid phase (deg) 176.5 +/- 3.1

RMS Theor. Amplitude 0.579 +/- 0.016 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 54.4 7.3 Search (4096X32) 0.568 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 56.6 12.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 45.5 4.4 Inc. seg. avg. 0.855 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 31.5 7.6 Inc. frq. avg. 0.727 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

t: az 298.0 el 51.7 pa 88.1 Z: az 93.8 el 53.1 pa -42.1 u,v (fr/asec) 9094.198 -3728.862 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tZ..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tZ.W.68.2L2HSR

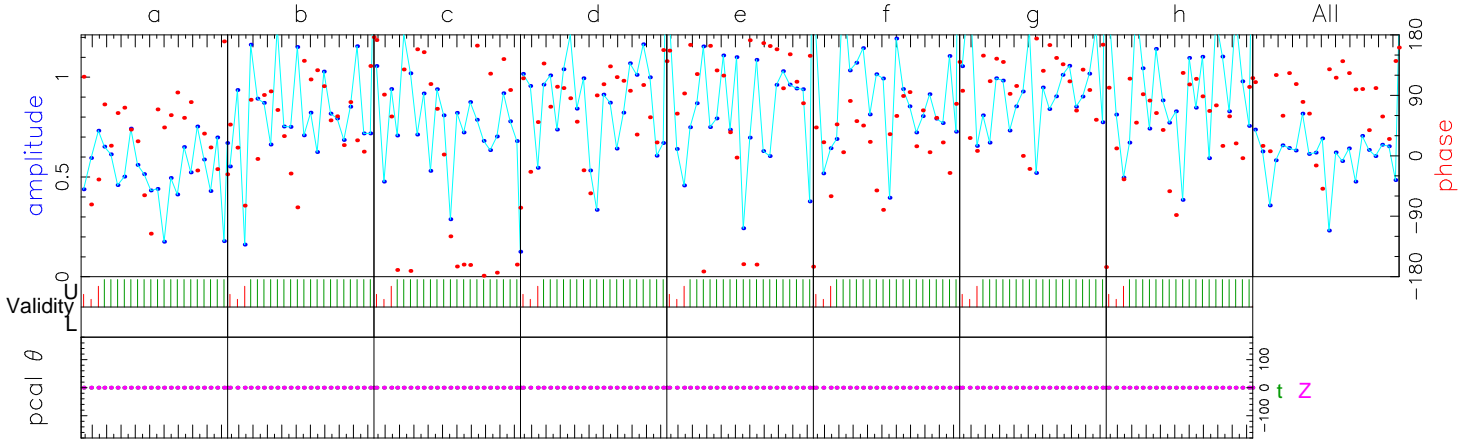


Fringe quality 5

SNR 25.8
Int time 546.759
Amp 0.404
Phase 84.4
PFD 0.0e+00
Delays (us)
SBD -0.019054
MBD -0.002424
Fringe rate (Hz)
-0.011831
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222c
Exper # 16383
Yr:day 2022:281
Start 154013.31
Stop 155000.06
FRT 154555.00
Corr/FF/build
2023:040:205350
2023:040:223702
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
	31.8	61.1	155.3	86.3	138.3	32.9	109.9	61.6	Phase	84.4
	0.3	0.5	0.5	0.6	0.6	0.6	0.6	0.6	Ampl.	0.5
	254.2	251.8	252.3	251.2	251.3	251.5	251.5	252.2	Sbd box	252.1
U/L	1102/0	1102/0	1102/0	1102/0	1102/0	1102/0	1102/0	1102/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
t:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-7.16624531615E+02	Apriori delay (usec)	-7.16606482833E+02	Resid mbdelay (usec)	-2.42378E-03	+/-	4.2E-05
Sband delay (usec)	-7.16625536833E+02	Apriori clock (usec)	5.8065014E+00	Resid sbdelay (usec)	-1.90540E-02	+/-	3.3E-04
Phase delay (usec)	-7.16606480113E+02	Apriori clockrate (us/s)	4.2469999E-07	Resid phdelay (usec)	2.72037E-06	+/-	1.4E-07
Delay rate (us/s)	-1.18110571647E+00	Apriori rate (us/s)	-1.18110557913E+00	Resid rate (us/s)	-1.37343E-07	+/-	4.4E-10
Total phase (deg)	-70.9	Apriori accel (us/s/s)	-2.04529293629E-05	Resid phase (deg)	84.4	+/-	4.4

ph/seg (deg)	52.4	RMS	10.4	Theor.	52.4	Amplitude	0.404 +/- 0.016	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	58.3	Search (4096X32)	0.399	Search	4096X32	Search	0.399	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	50.1	Interp.	0.000	Interp.	0.000	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	40.3	Inc. seg. avg.	0.594	Inc. seg. avg.	0.594	Inc. seg. avg.	0.594	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	0.536	Inc. frq. avg.	0.536	Inc. frq. avg.	0.536	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

t: az 298.0 el 51.7 pa 88.1 Z: az 93.8 el 53.1 pa -42.1 u,v (fr/asec) 9094.198 -3728.862 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222c/v1/3mm/3001/No0005/tZ..2L2HSR Output file: /Exps/c222c/v1/3mm/3001/No0005/tZ.W.84.2L2HSR