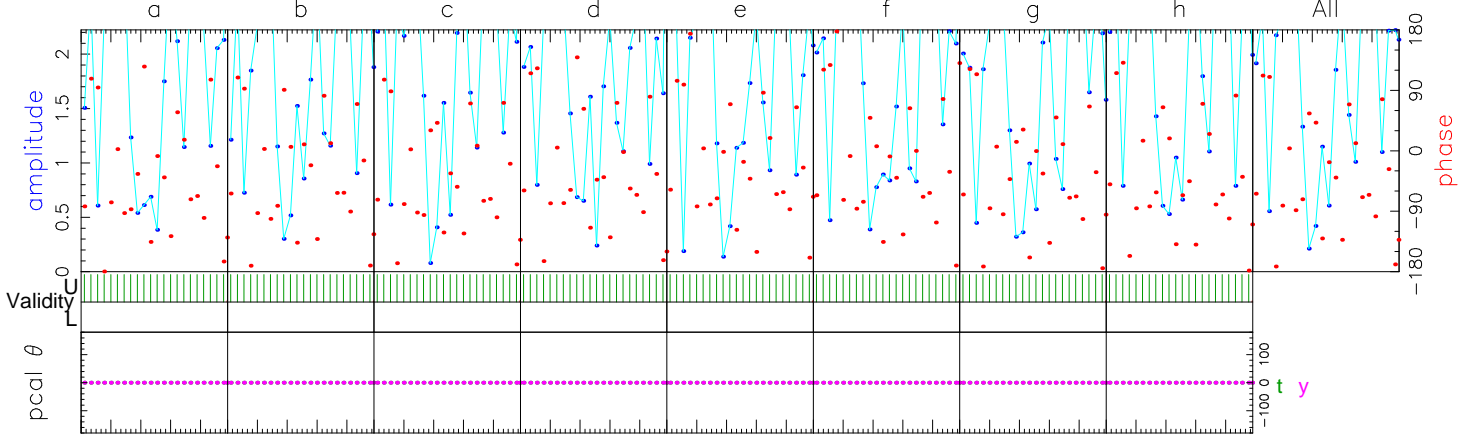


Fringe quality 7

SNR 34.0
Int time 282.150
Amp 0.741
Phase -74.1
PFD 0.0e+00
Delays (us)
SBD 0.033766
MBD 0.002472
Fringe rate (Hz) 0.014687
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c222d
Exper # 16383
Yr:day 2022:282
Start 183000.00
Stop 183442.62
FRT 183330.00
Corr/FF/build
2023:040:225757
2023:044:123012
2021:252:122852
RA & Dec (J2000)
01h12m05.824716s
+22°44'38.786350"

Amp. and Phase vs. time for each freq., 23 segs, 25 APs / seg (12.80 sec / seg.), time ticks 10 sec

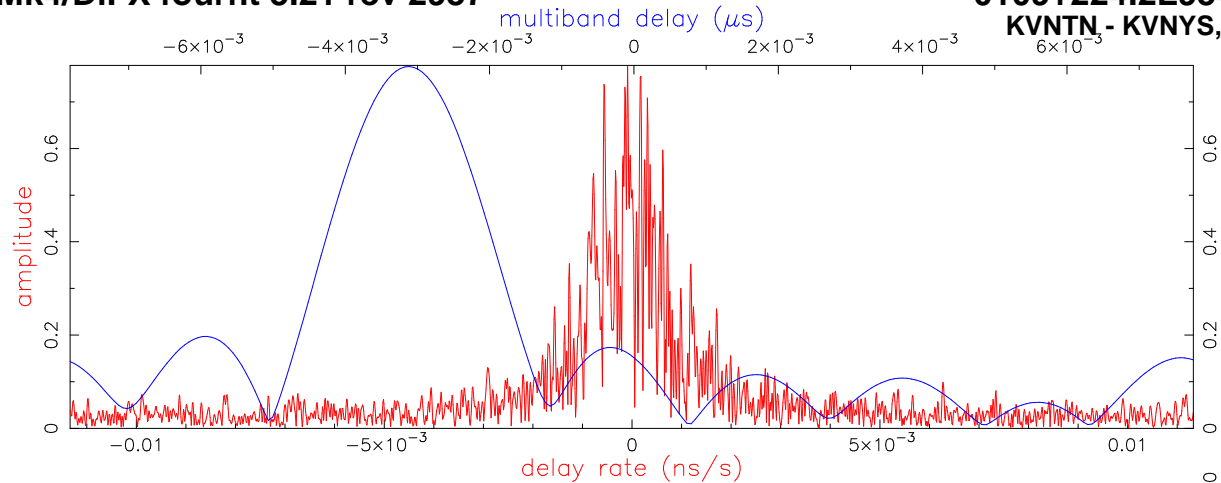


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-76.7	-72.1	-79.7	-70.8	-67.4	-75.0	-71.2	-79.7	Phase	-74.1
	0.7	0.6	0.8	0.7	0.7	0.8	0.7	0.8	Ampl.	0.7
	265.5	265.7	265.6	265.9	265.5	265.5	265.7	265.7	Sbd box	265.6
U/L	552/0	552/0	552/0	552/0	552/0	552/0	552/0	552/0	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	
									Tracks	
Group delay (usec)(sbd)	1.94759161298E+02		Apriori delay (usec)		1.94725439091E+02		Resid mbdelay (usec)		2.47221E-03	+/- 3.2E-05
Sband delay (usec)	1.94759205341E+02		Apriori clock (usec)		3.2325516E+00		Resid sbdelay (usec)		3.37663E-02	+/- 2.5E-04
Phase delay (usec)	1.94725436701E+02		Apriori clockrate (us/s)		2.0599998E-07		Resid phdelay (usec)		-2.39068E-06	+/- 1.1E-07
Delay rate (us/s)	-3.67780240897E-02		Apriori rate (us/s)		-3.67781945864E-02		Resid rate (us/s)		1.70497E-07	+/- 6.7E-10
Total phase (deg)	42.3		Apriori accel (us/s/s)		-3.68099803777E-06		Resid phase (deg)		-74.1	+/- 3.4

ph/seg (deg) 90.7 8.1 Search (2048X32) 0.722 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 178.6 14.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 4.8 4.8 Inc. seg. avg. 1.757 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 6.8 8.3 Inc. frq. avg. 0.731 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 266.5 el 50.1 pa 64.7 y: az 261.8 el 49.3 pa 58.4 u,v (fr/asec) 224.236 -618.974 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222d/v1/3mm/3001/No0005/ty..2L954T Output file: /Exps/c222d/v1/3mm/3001/No0005/ty.W.21.2L954T

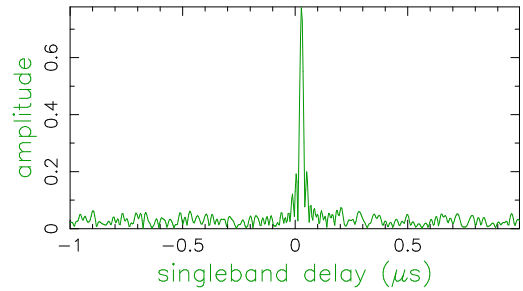
Mk4/DiFX fourfit 3.21 rev 2937

0109+224.2L954T, No0005, ty
KVNTN - KVNYS, fgroup W, pol RR

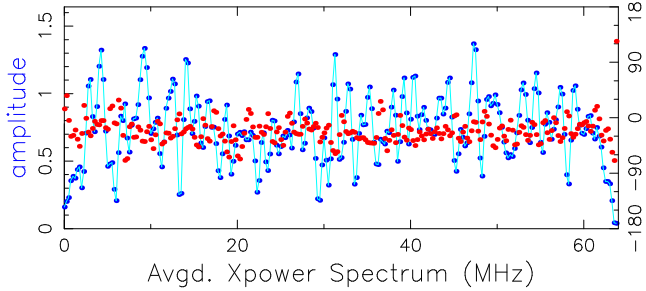


Fringe quality 7

SNR 35.7
Int time 282.150
Amp 0.778
Phase -23.8
PFD 0.0e+00
Delays (us)
SBD 0.028068
MBD -0.003123
Fringe rate (Hz)
-0.007631
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

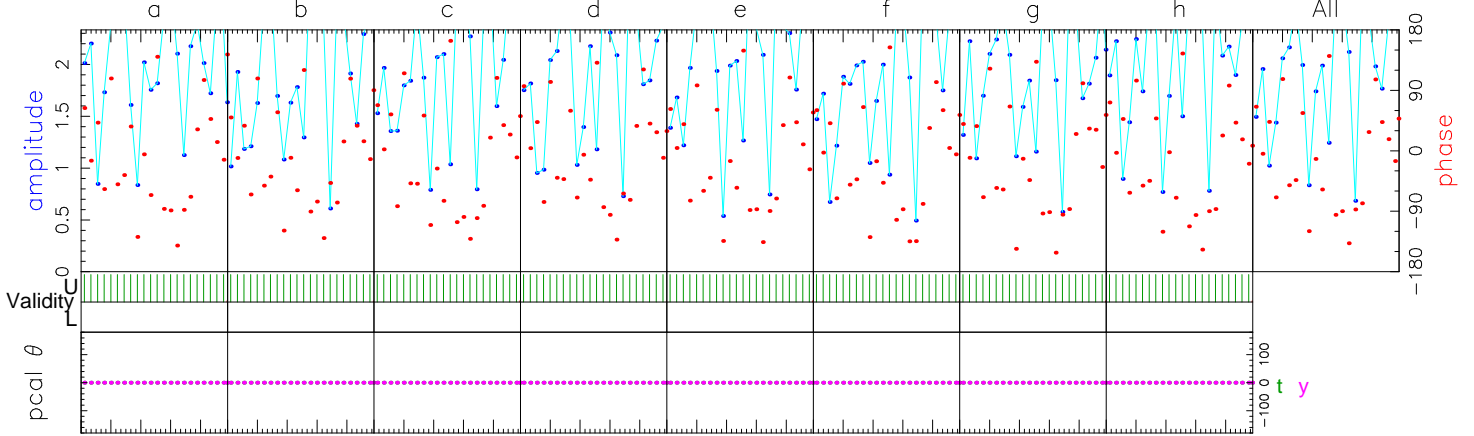


delay rate (ns/s)



Exp. c222d
Yr:day 16383
2023:040:225757
2023:044:123015
2021:252:122852
RA & Dec (J2000)
01h12m05.824716s
+22°44'38.786350"

Amp. and Phase vs. time for each freq., 23 segs, 25 APs / seg (12.80 sec / seg.), time ticks 10 sec

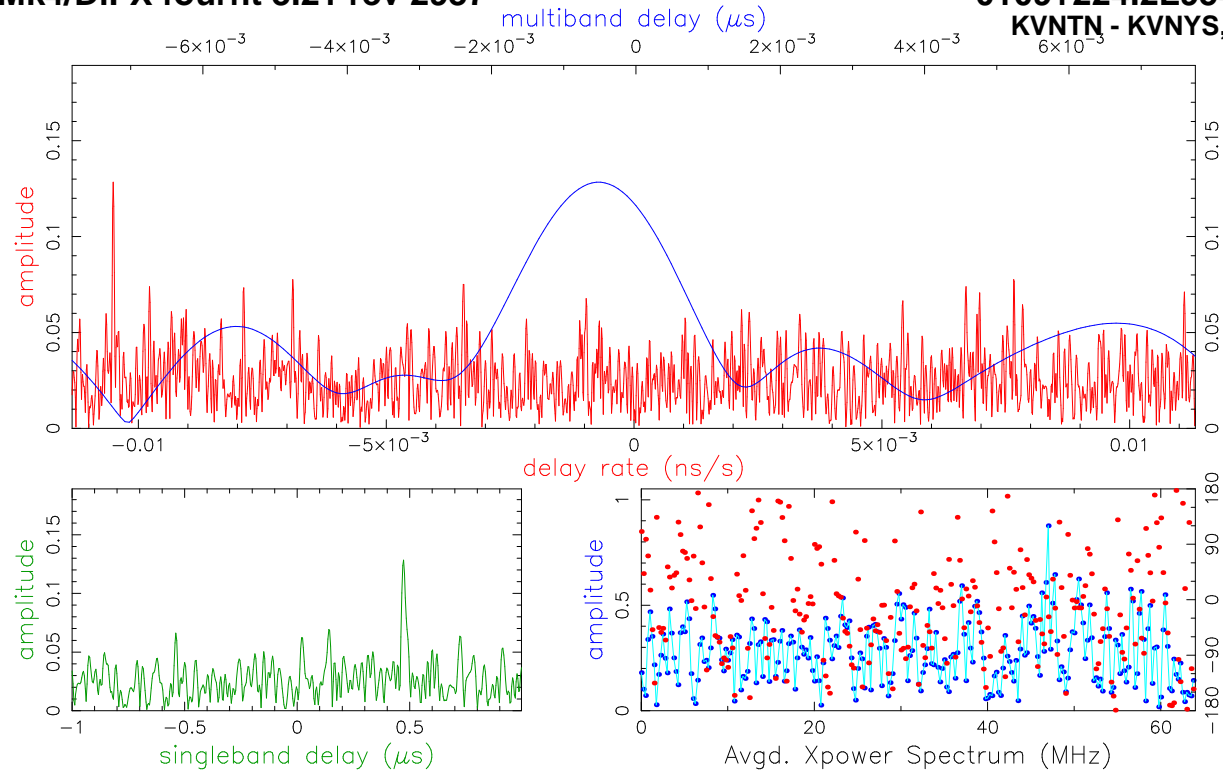


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-20.8	-29.1	-28.4	-14.8	-24.3	-18.6	-28.2	-25.0	Phase	-23.8
	0.8	0.9	0.8	0.8	0.8	0.7	0.7	0.7	Ampl.	0.8
	264.3	264.6	263.9	264.1	264.0	264.4	264.1	264.3	Sbd box	264.2
U/L	552/0	552/0	552/0	552/0	552/0	552/0	552/0	552/0	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)	1.94753566514E+02		Apriori delay (usec)		1.94725439091E+02		Resid mbdelay (usec)		-3.12258E-03	+/- 3.0E-05
Sband delay (usec)	1.94753506841E+02		Apriori clock (usec)		3.2325516E+00		Resid sbdelay (usec)		2.80678E-02	+/- 2.4E-04
Phase delay (usec)	1.94725438323E+02		Apriori clockrate (us/s)		2.0599998E-07		Resid phdelay (usec)		-7.68235E-07	+/- 1.0E-07
Delay rate (us/s)	-3.67782831802E-02		Apriori rate (us/s)		-3.67781945864E-02		Resid rate (us/s)		-8.85938E-08	+/- 6.3E-10
Total phase (deg)			Apriori accel (us/s/s)		-3.68099803777E-06		Resid phase (deg)		-23.8	+/- 3.2

	RMS	Theor.	Amplitude	0.778 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	77.5	7.7	Search (2048X32)	0.764	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	167.5	13.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	5.6	4.5	Inc. seg. avg.	1.921	Sample rate(MSamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	8.2	7.9	Inc. frq. avg.	0.776	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

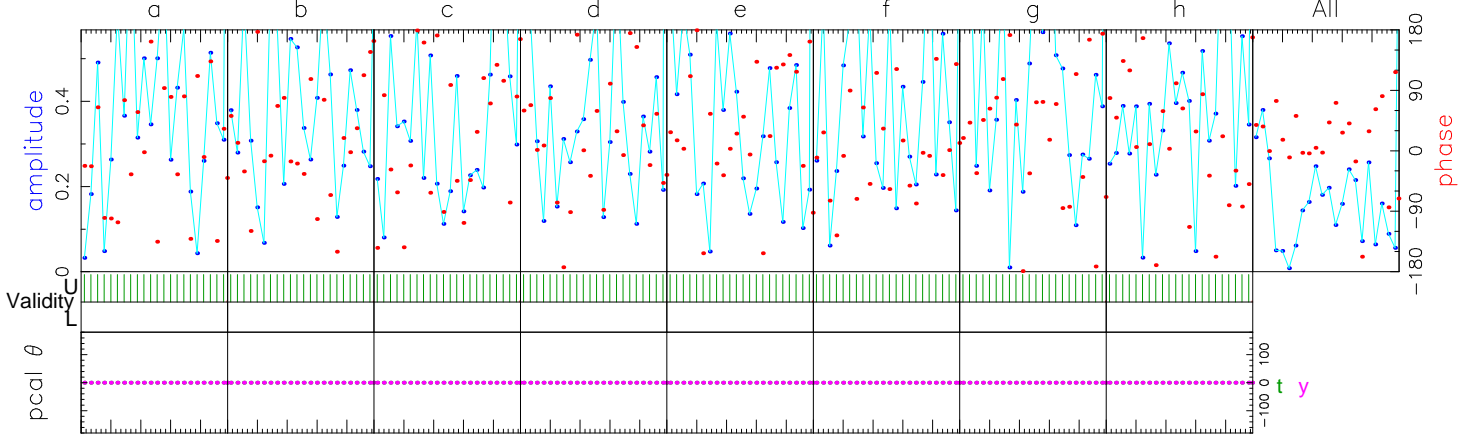
t: az 266.5 el 50.1 pa 64.7 y: az 261.8 el 49.3 pa 58.4 u,v (fr/asec) 224.236 -618.974 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222d/v1/3mm/3001/No0005/ty..2L954T Output file: /Exps/c222d/v1/3mm/3001/No0005/ty.W.46.2L954T



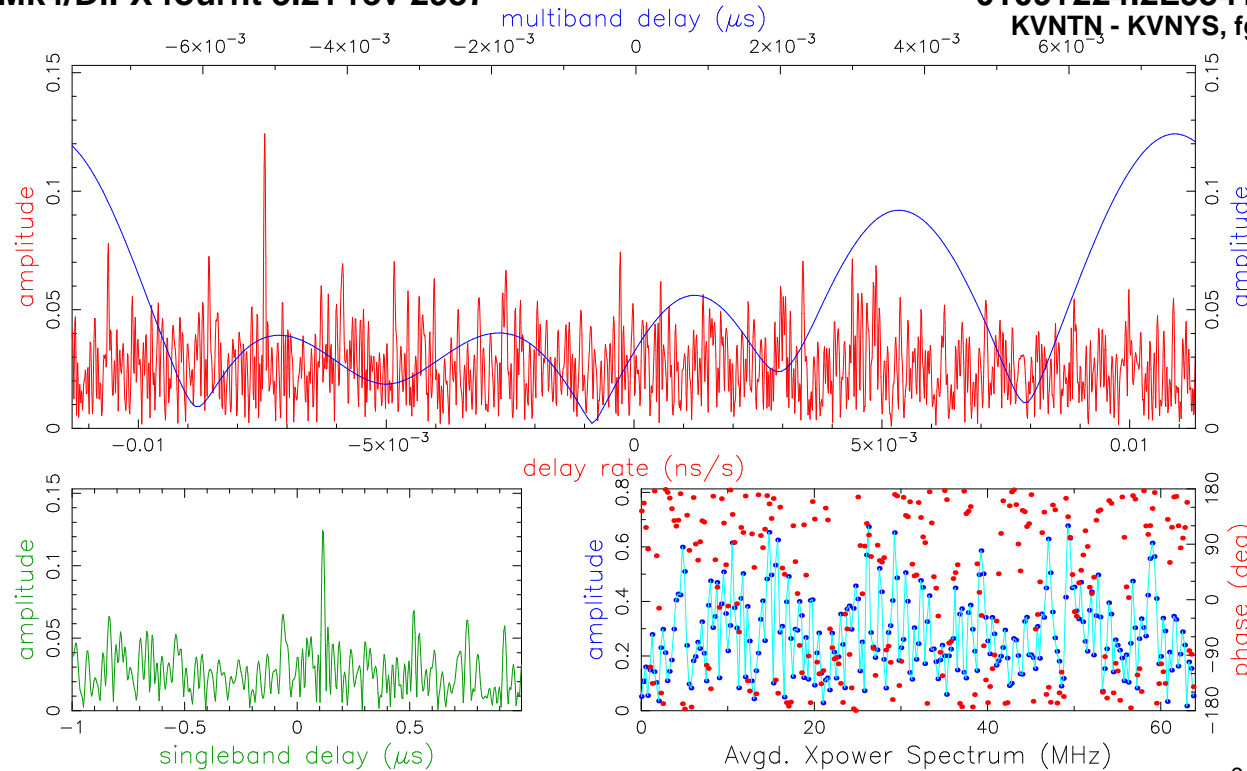
Fringe quality 0
SNR 5.9
Int time 282.150
Amp 0.189
Phase 24.2
PFD 5.5e-01
Delays (us)
SBD 0.471644
MBD -0.000536
Fringe rate (Hz)
-0.906622
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c222d
Exper # 16383
Yr:day 2022:282
Start 183000.00
Stop 183442.62
FRT 183330.00
Corr/FF/build
2023:040:225757
2023:044:123021
2021:252:122852
RA & Dec (J2000)
01h12m05.824716s
+22°44'38.786350"

Amp. and Phase vs. time for each freq., 23 segs, 25 APs / seg (12.80 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	552/0	552/0	552/0	552/0	552/0	552/0	552/0	552/0		
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)		1.95193652817E+02		Apriori delay (usec)	1.94725439091E+02		Resid mbdelay (usec)	-5.36274E-04		+/- 1.8E-04
Sband delay (usec)		1.95197083341E+02		Apriori clock (usec)	0.124		Resid sbdelay (usec)	4.71644E-01		+/- 1.5E-03
Phase delay (usec)		1.94725439870E+02		Apriori clockrate (us/s)	2.0599998E-07		Resid phdelay (usec)	7.79067E-07		+/- 6.2E-07
Delay rate (us/s)		-3.67887195742E-02		Apriori rate (us/s)	-3.67781945864E-02		Resid rate (us/s)	-1.05250E-05		+/- 3.8E-09
Total phase (deg)		140.6		Apriori accel (us/s/s)	-3.68099803777E-06		Resid phase (deg)	24.2		+/- 19.3

ph/seg (deg) 56.3 81.0 Interp. 0.000 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 82.8 81.0 Search (2048X32) 0.124 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 47.9 27.4 Inc. seg. avg. 0.177 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 52.7 47.7 Inc. frq. avg. 0.185 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
t: az 266.5 el 50.1 pa 64.7 y: az 261.8 el 49.3 pa 58.4 u,v (fr/asec) 224.236 -618.974 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222d/v1/3mm/3001/No0005/ty..2L954T Output file: /Exps/c222d/v1/3mm/3001/No0005/ty.W.78.2L954T

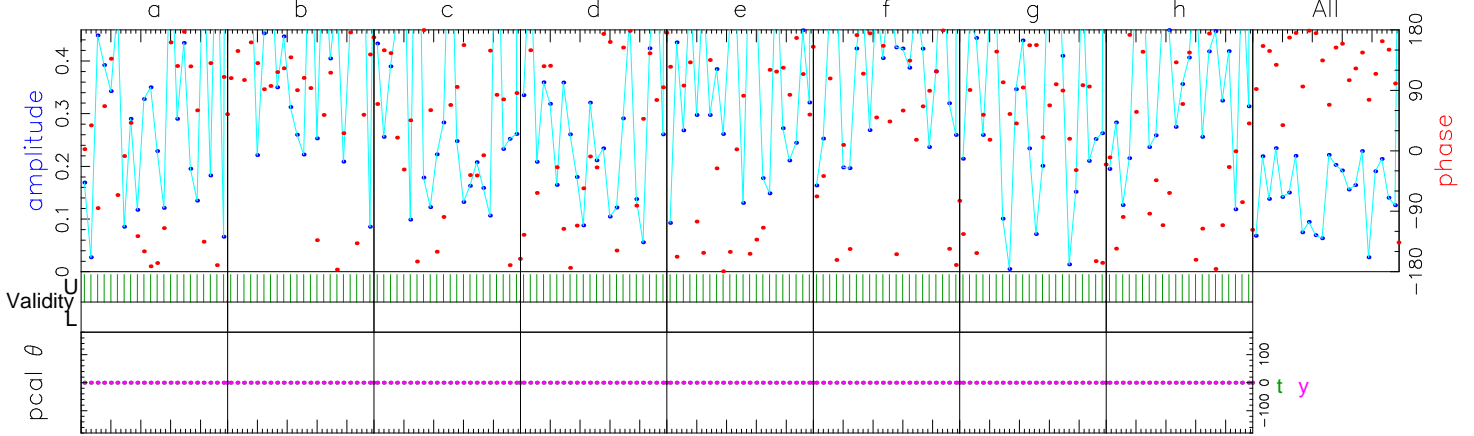


Fringe quality 0

SNR 5.8
Int time 282.150
Amp 0.153
Phase 136.3
PFD 7.3e-01
Delays (us)
SBD 0.115024
MBD -0.008167
Fringe rate (Hz)
-0.642689
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

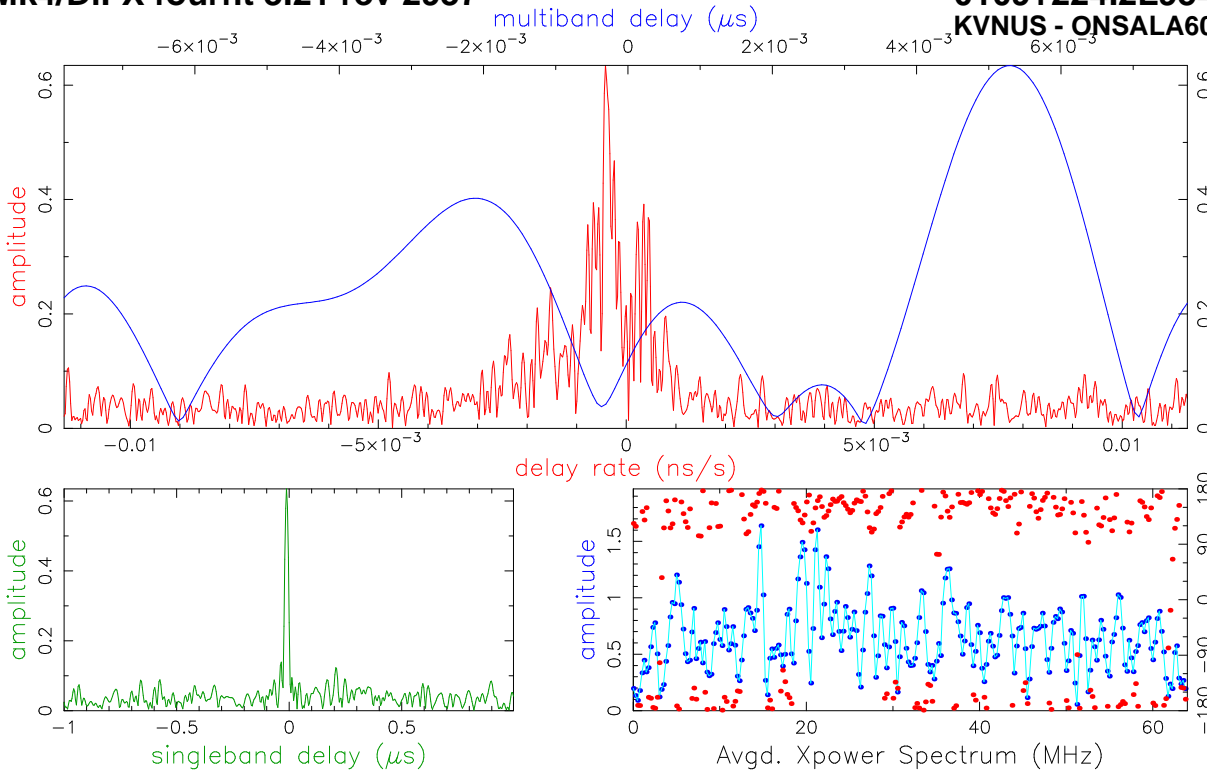
Exp. c222d
Exper # 16383
Yr:day 2022:282
Start 183000.00
Stop 183442.62
FRT 183330.00
Corr/FF/build
2023:040:225757
2023:044:123023
2021:252:122852
RA & Dec (J2000)
01h12m05.824716s
+22°44'38.786350"

Amp. and Phase vs. time for each freq., 23 segs, 25 APs / seg (12.80 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-177.6	118.2	97.6	161.5	162.4	128.1	95.9	-138.5	Phase	136.3
	0.2	0.4	0.1	0.1	0.2	0.2	0.2	0.1	Ampl.	0.2
	328.0	286.9	475.0	190.8	241.0	470.5	502.0	493.4	Sbd box	286.4
U/L	552/0	552/0	552/0	552/0	552/0	552/0	552/0	552/0	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	
									Tracks	
Group delay (usec)(sbd)	1.94842272279E+02		Apriori delay (usec)		1.94725439091E+02		Resid mbdelay (usec)		-8.16681E-03	+/- 1.9E-04
Sband delay (usec)	1.94840463341E+02		Apriori clock (usec)		3.2325516E+00		Resid sbdelay (usec)		1.15024E-01	+/- 1.5E-03
Phase delay (usec)	1.94725443486E+02		Apriori clockrate (us/s)		2.0599998E-07		Resid phdelay (usec)		4.39433E-06	+/- 6.3E-07
Delay rate (us/s)	-3.6785655677E-02		Apriori rate (us/s)		-3.67781945864E-02		Resid rate (us/s)		-7.46098E-06	+/- 3.9E-09
Total phase (deg)	252.7		Apriori accel (us/s/s)		-3.68099803777E-06		Resid phase (deg)		136.3	+/- 19.6

ph/seg (deg) 38.8 47.0 Search (2048X32) 0.122 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 57.3 82.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 48.7 27.7 Inc. seg. avg. 0.138 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 56.3 48.4 Inc. frq. avg. 0.165 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 t: az 266.5 el 50.1 pa 64.7 y: az 261.8 el 49.3 pa 58.4 u,v (fr/asec) 224.236 -618.974 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222d/v1/3mm/3001/No0005/ty..2L954T Output file: /Exps/c222d/v1/3mm/3001/No0005/ty.W.87.2L954T

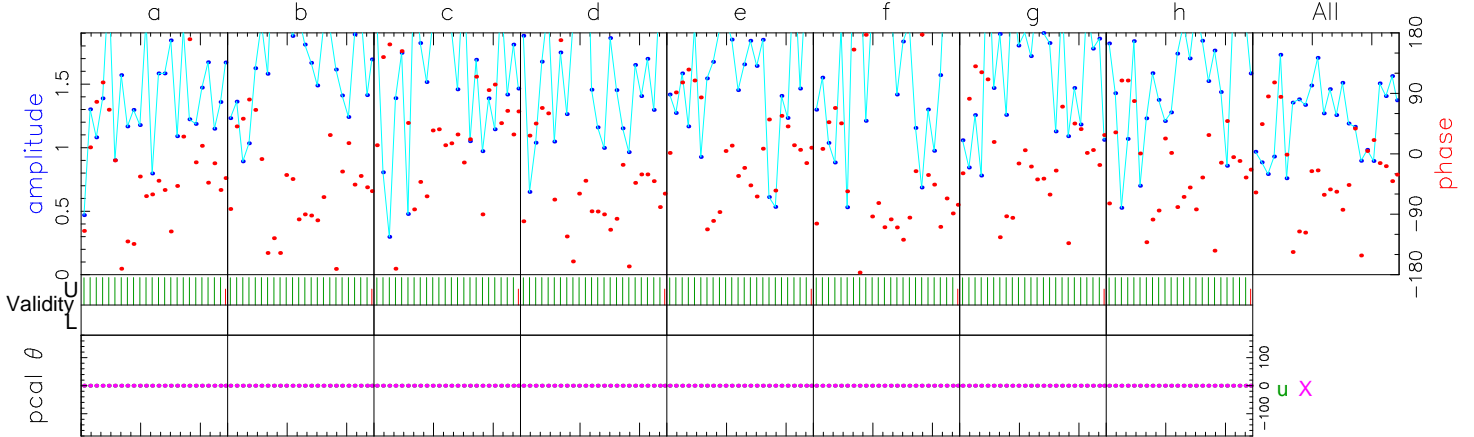


Fringe quality 8

SNR 20.9
 Int time 144.843
 Amp 0.635
 Phase -35.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.011676
 MBD 0.005290
 Fringe rate (Hz)
 -0.037139
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c222d
 Exper # 16383
 Yr:day 2022:282
 Start 183000.00
 Stop 183224.90
 FRT 183330.00
 Corr/FF/build
 2023:040:225757
 2023:044:123011
 2021:252:122852
 RA & Dec (J2000)
 01h12m05.824716s
 +22°44'38.786350"

Amp. and Phase vs. time for each freq., 24 segs, 12 APs / seg (6.14 sec / seg.), time ticks 10 sec



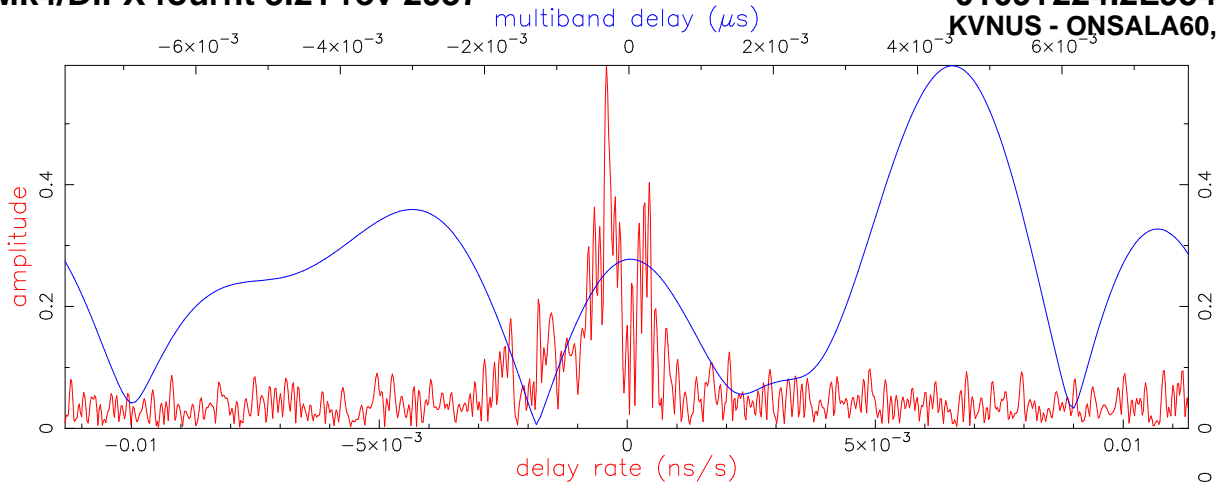
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-35.5	-57.0	27.9	-66.1	1.4	-93.0	-8.2	-34.4	Phase	-35.2
	0.6	0.8	0.8	0.9	0.8	0.9	0.8	0.8	Ampl.	0.8
	255.2	253.8	253.7	253.0	253.1	253.5	253.6	254.3	Sbd box	254.0
U/L	283/0	283/0	283/0	283/0	283/0	283/0	283/0	283/0	APs used	
u	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
u:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) 4.84439354355E+03 Apriori delay (usec) 4.84440387816E+03 Resid mbdelay (usec) 5.29038E-03 +/- 5.2E-05
 Sband delay (usec) 4.84439220241E+03 Apriori clock (usec) -8.1630646E+01 Resid sbdelay (usec) -1.16757E-02 +/- 4.1E-04
 Phase delay (usec) 4.84440387703E+03 Apriori clockrate (us/s) -7.4200032E-08 Resid phdelay (usec) -1.13422E-06 +/- 1.8E-07
 Delay rate (us/s) -1.58457802670E+00 Apriori rate (us/s) -1.58457759556E+00 Resid rate (us/s) -4.31147E-07 +/- 2.1E-09
 Total phase (deg) -11.8 Apriori accel (us/s/s) -3.76523432575E-05 Resid phase (deg) -35.2 +/- 5.5

RMS Theor. Amplitude 0.635 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 68.5 13.4 Search (1024X32) 0.624 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 105.6 23.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 42.5 7.8 Inc. seg. avg. 1.207 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 28.9 13.6 Inc. frq. avg. 0.785 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

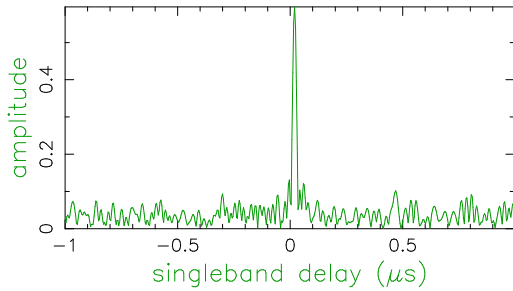
u: az 265.7 el 47.7 pa 61.7 X: az 93.2 el 29.5 pa -35.6 u,v (fr/asec) 9801.092 -3432.136 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222d/v1/3mm/3001/No0005/uX..2L954T Output file: /Exps/c222d/v1/3mm/3001/No0005/uX.W.14.2L954T

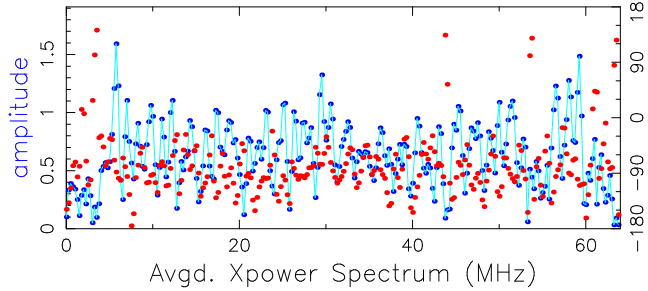


Fringe quality 8

SNR 19.6
Int time 144.843
Amp 0.596
Phase 83.6
PFD 0.0e+00
Delays (us)
SBD 0.019256
MBD 0.004476
Fringe rate (Hz)
-0.037053
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

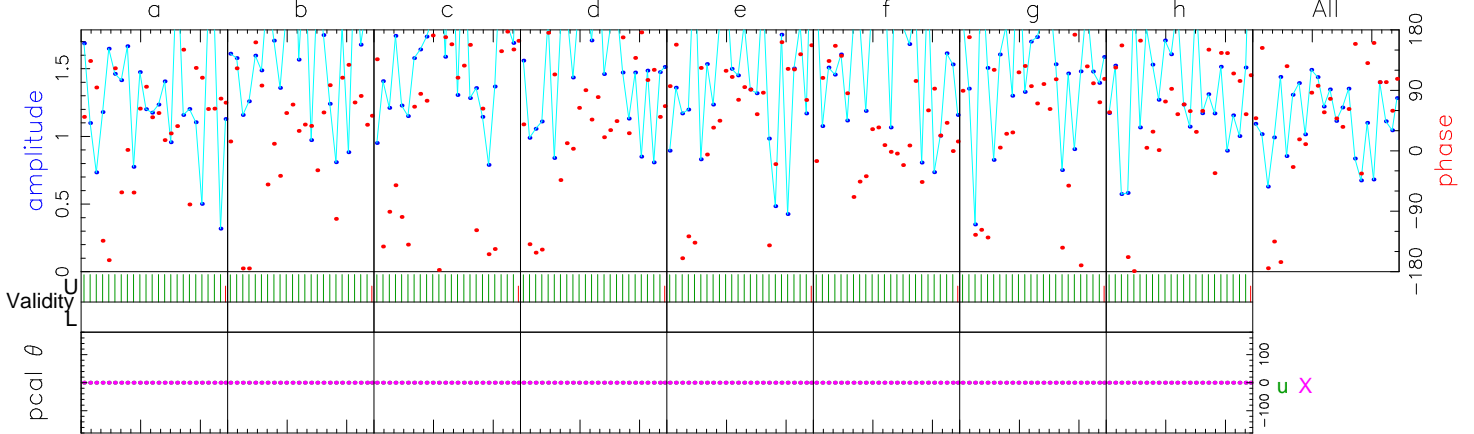


delay rate (ns/s)



Exp. c222d
Exper # 16383
Yr:day 2022:282
Start 183000.00
Stop 183224.90
FRT 183330.00
Corr/FF/build
2023:040:225757
2023:044:123013
2021:252:122852
RA & Dec (J2000)
01h12m05.824716s
+22°44'38.786350"

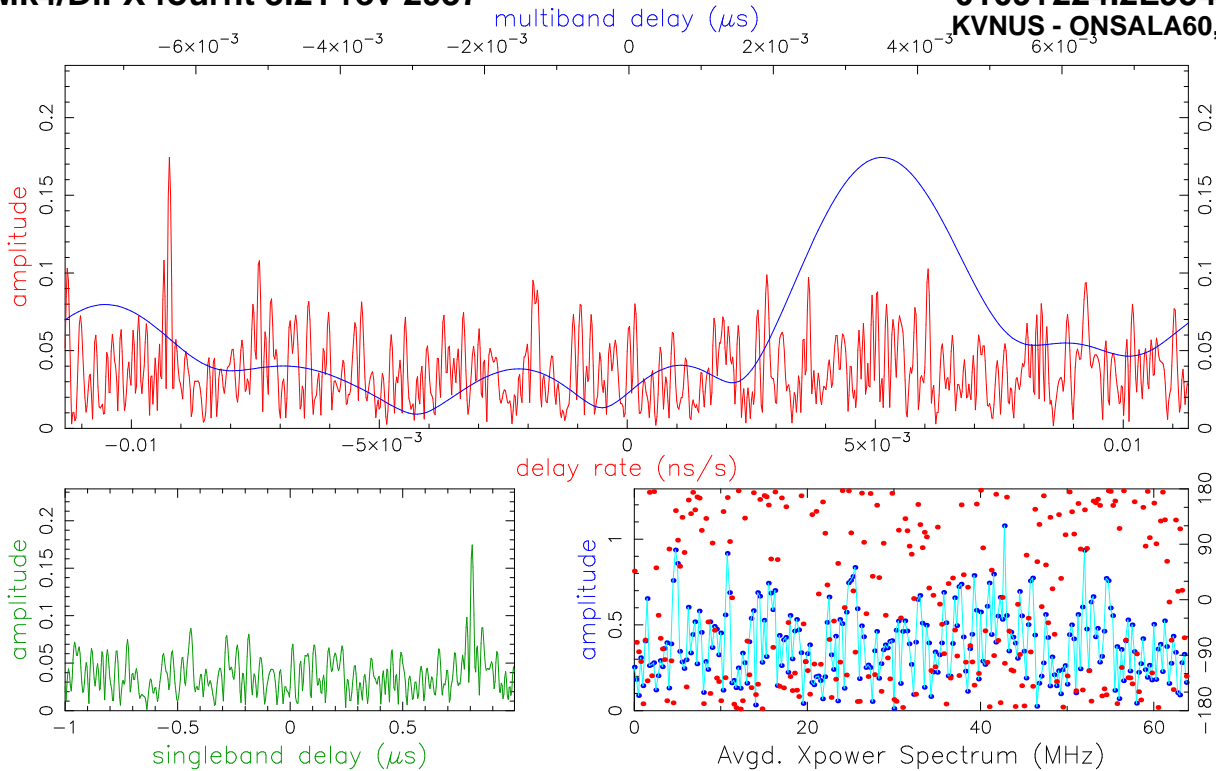
Amp. and Phase vs. time for each freq., 24 segs, 12 APs / seg (6.14 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	63.1	57.6	162.4	69.1	114.8	22.5	104.5	82.5	Phase	83.6
	0.6	0.9	0.9	0.7	0.8	0.9	0.7	0.8	Ampl.	0.8
	263.2	261.4	261.8	261.5	260.7	261.6	261.7	262.3	Sbd box	261.9
U/L	283/0	283/0	283/0	283/0	283/0	283/0	283/0	283/0	APs used	
u	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
u:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.84442397961E+03		Apriori delay (usec)		4.84440387816E+03		Resid mbdelay (usec)		4.47645E-03	+/- 5.5E-05
Sband delay (usec)	4.84442313416E+03		Apriori clock (usec)		-8.1630646E+01		Resid sbdelay (usec)		1.92560E-02	+/- 4.4E-04
Phase delay (usec)	4.84440388086E+03		Apriori clockrate (us/s)		-7.4200032E-08		Resid phdelay (usec)		2.69662E-06	+/- 1.9E-07
Delay rate (us/s)	-1.58457802570E+00		Apriori rate (us/s)		-1.58457759556E+00		Resid rate (us/s)		-4.30144E-07	+/- 2.3E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.76523432575E-05		Resid phase (deg)		83.6	+/- 5.8

	RMS	Theor.	Amplitude	0.596 +/- 0.030	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	67.0	14.3	Search (1024X32)	0.574	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	98.4	25.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	45.9	8.3	Inc. seg. avg.	1.091	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	36.6	14.4	Inc. frq. avg.	0.777	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

u: az 265.7 el 47.7 pa 61.7 X: az 93.2 el 29.5 pa -35.6 u,v (fr/asec) 9801.092 -3432.136 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222d/v1/3mm/3001/No0005/uX..2L954T Output file: /Exps/c222d/v1/3mm/3001/No0005/uX.W.30.2L954T

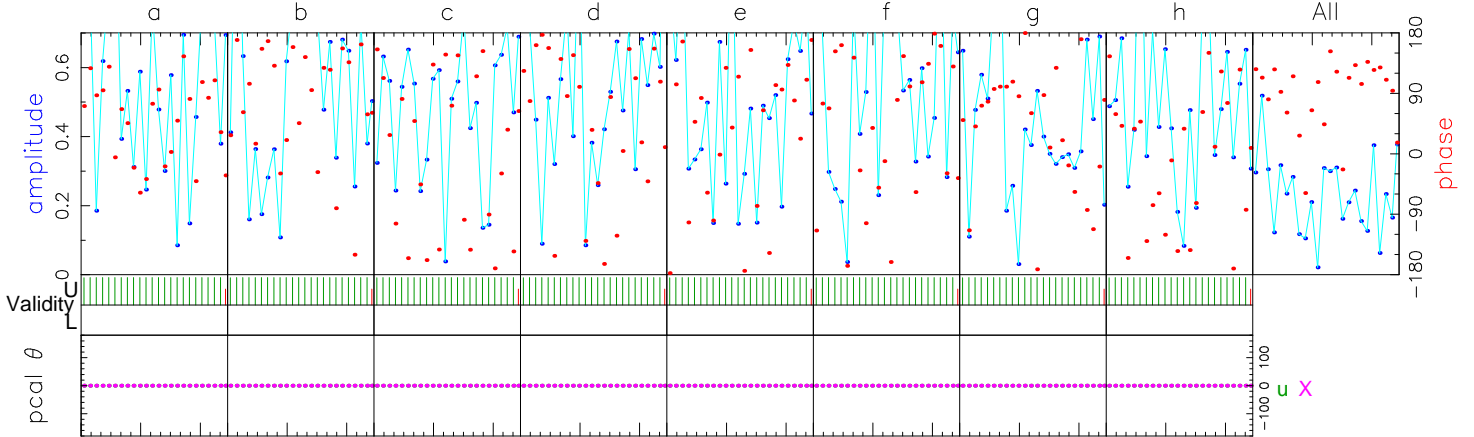


Fringe quality 0

SNR 5.8
 Int time 144.843
 Amp 0.234
 Phase 100.5
 PFD 6.7e-01
 Delays (us)
 SBD 0.808056
 MBD 0.003504
 Fringe rate (Hz)
 -0.796375
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c222d
 Exper # 16383
 Yr:day 2022:282
 Start 183000.00
 Stop 183224.90
 FRT 183330.00
 Corr/FF/build
 2023:040:225757
 2023:044:123015
 2021:252:122852
 RA & Dec (J2000)
 01h12m05.824716s
 +22°44'38.786350"

Amp. and Phase vs. time for each freq., 24 segs, 12 APs / seg (6.14 sec / seg.), time ticks 10 sec

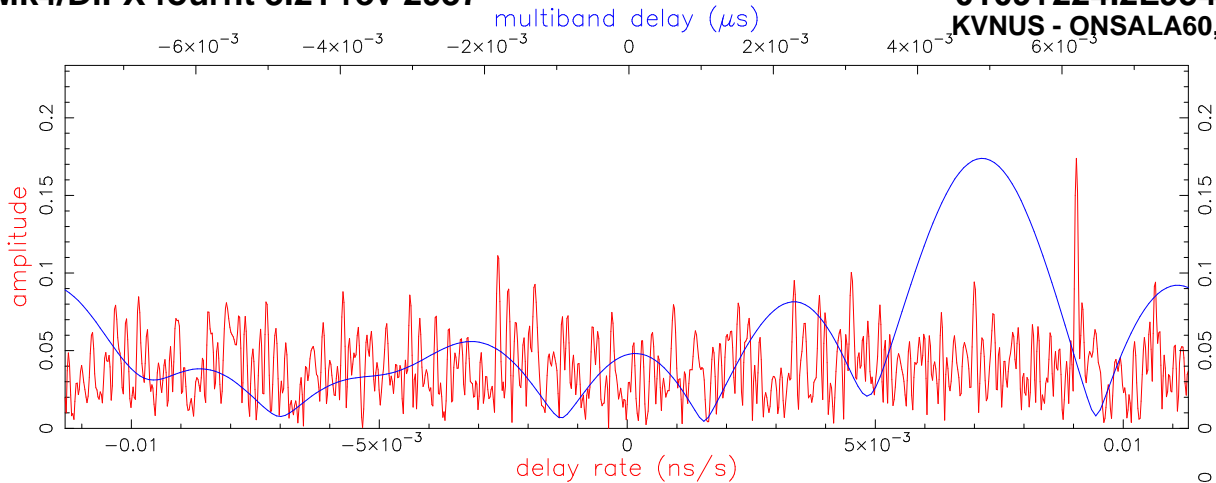


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	66.1	118.4	144.1	111.3	106.6	121.1	73.3	69.4	Phase	100.5
	0.4	0.4	0.1	0.3	0.3	0.2	0.2	0.1	Ampl.	0.2
	463.1	299.0	43.3	305.9	286.8	128.7	457.9	471.2	Sbd box	463.9
U/L	283/0	283/0	283/0	283/0	283/0	283/0	283/0	283/0	APs used	
u	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
u:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
u	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)	4.84520425709E+03		Apriori delay (usec)		4.84440387816E+03		Resid mbdelay (usec)		3.50393E-03	+/- 1.9E-04
Sband delay (usec)	4.84521193416E+03		Apriori clock (usec)		-8.1630646E+01		Resid sbdelay (usec)		8.08056E-01	+/- 1.5E-03
Phase delay (usec)	4.84440388140E+03		Apriori clockrate (us/s)		-7.4200032E-08		Resid phdelay (usec)		3.23924E-06	+/- 6.4E-07
Delay rate (us/s)	-1.58458684068E+00		Apriori rate (us/s)		-1.58457759556E+00		Resid rate (us/s)		-9.24512E-06	+/- 7.7E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.76523432575E-05		Resid phase (deg)		100.5	+/- 19.9

	RMS	Theor.	Amplitude	0.234 +/- 0.041	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	52.6	48.8	Search (1024X32)	0.167	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	71.0	85.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	30.8	28.2	Inc. seg. avg.	0.225	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	43.8	49.2	Inc. frq. avg.	0.229	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

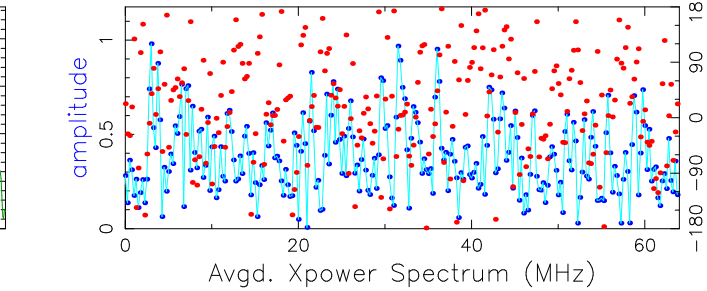
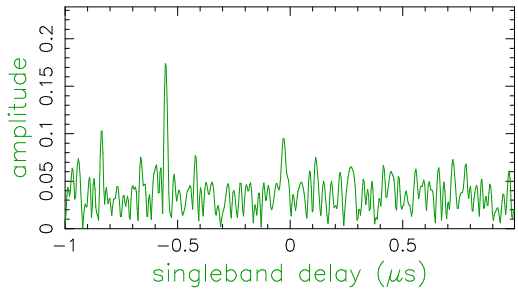
u: az 265.7 el 47.7 pa 61.7 X: az 93.2 el 29.5 pa -35.6 u,v (fr/asec) 9801.092 -3432.136 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222d/v1/3mm/3001/No0005/uX..2L954T Output file: /Exps/c222d/v1/3mm/3001/No0005/uX.W.45.2L954T



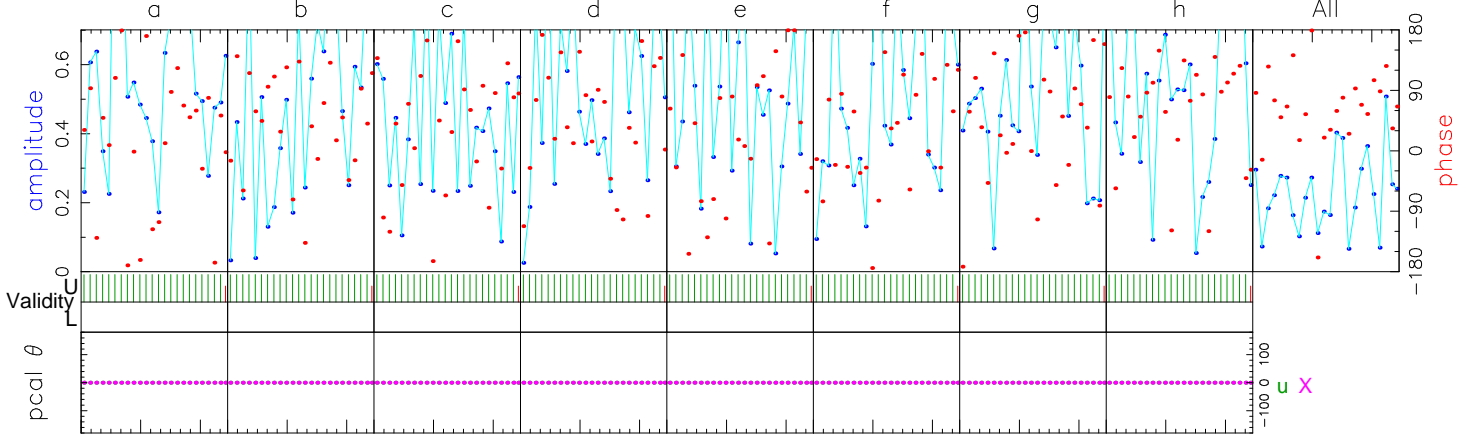
Fringe quality 0

SNR 5.8
 Int time 144.843
 Amp 0.234
 Phase 77.1
 PFD 5.1e-01
 Delays (us)
 SBD -0.553071
 MBD 0.004916
 Fringe rate (Hz)
 0.780388
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c222d
 Exper # 16383
 Yr:day 2022:282
 Start 183000.00
 Stop 183224.90
 FRT 183330.00
 Corr/FF/build
 2023:040:225757
 2023:044:123017
 2021:252:122852
 RA & Dec (J2000)
 01h12m05.824716s
 +22°44'38.786350"

Amp. and Phase vs. time for each freq., 24 segs, 12 APs / seg (6.14 sec / seg.), time ticks 10 sec



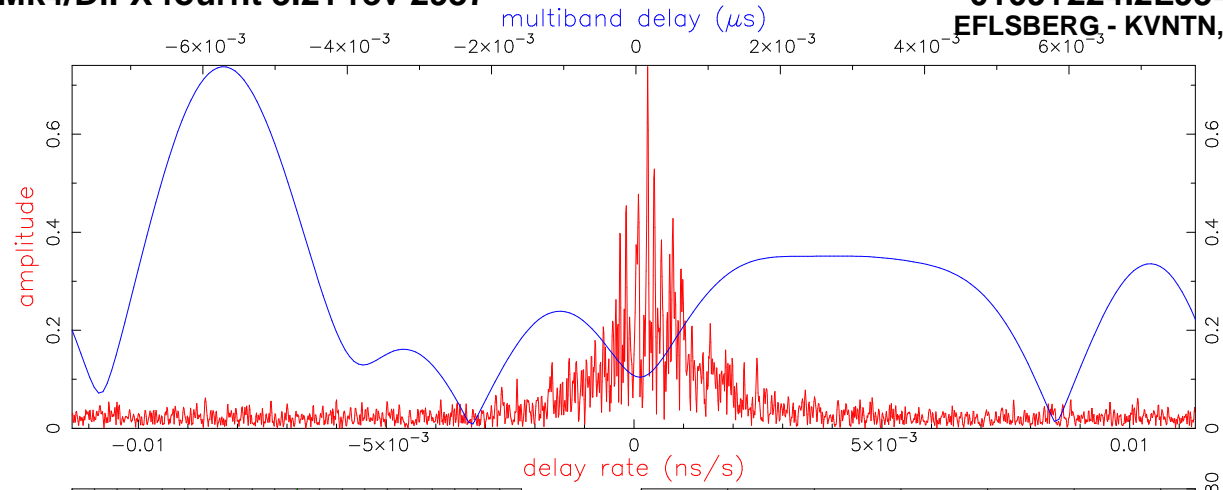
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	94.1	71.7	74.9	80.8	22.9	58.8	67.3	87.9	Phase	77.1
	0.3	0.4	0.2	0.2	0.0	0.2	0.2	0.4	Ampl.	0.2
	120.5	301.8	206.8	109.1	399.0	9.7	370.3	115.6	Sbd box	115.4
U/L	283/0	283/0	283/0	283/0	283/0	283/0	283/0	283/0	APs used	
u	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
u:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	4.84384629447E+03	Apriori delay (usec)	4.84440387816E+03	Resid mbdelay (usec)	4.91631E-03	+/-	1.9E-04
Sband delay (usec)	4.84385080741E+03	Apriori clock (usec)	-8.1630646E+01	Resid sbdelay (usec)	-5.53071E-01	+/-	1.5E-03
Phase delay (usec)	4.84440388065E+03	Apriori clockrate (us/s)	-7.4200032E-08	Resid phdelay (usec)	2.48493E-06	+/-	6.3E-07
Delay rate (us/s)	-1.58456853603E+00	Apriori rate (us/s)	-1.58457759556E+00	Resid rate (us/s)	9.05953E-06	+/-	7.6E-09
Total phase (deg)	100.4	Apriori accel (us/s/s)	-3.76523432575E-05	Resid phase (deg)	77.1	+/-	19.7

ph/seg (deg)	RMS 50.6	Theor. 48.2	Amplitude 50.6	0.234 +/- 0.040	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	69.4	84.1	Search (1024X32)	0.172	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	25.2	27.8	Inc. seg. avg.	0.225	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	45.7	48.6	Inc. frq. avg.	0.211	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
					Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

u: az 265.7 el 47.7 pa 61.7 X: az 93.2 el 29.5 pa -35.6 u,v (fr/asec) 9801.092 -3432.136 simultaneous interpolator

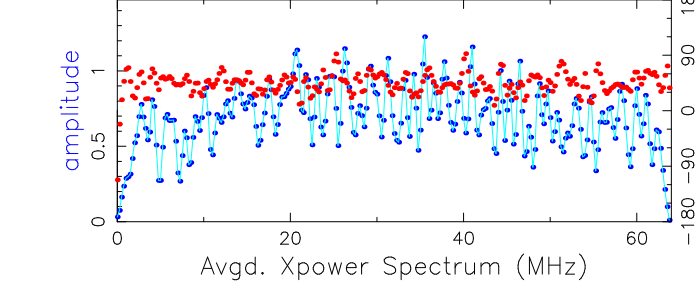
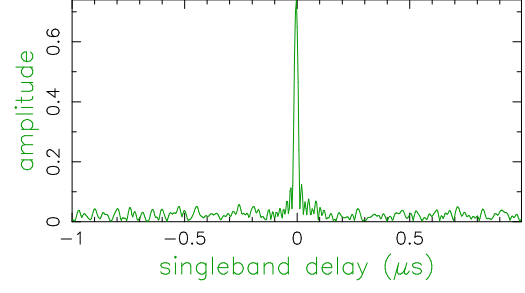
Control file: cf_1234_gmva Input file: /Exps/c222d/v1/3mm/3001/No0005/uX..2L954T Output file: /Exps/c222d/v1/3mm/3001/No0005/uX.W.62.2L954T



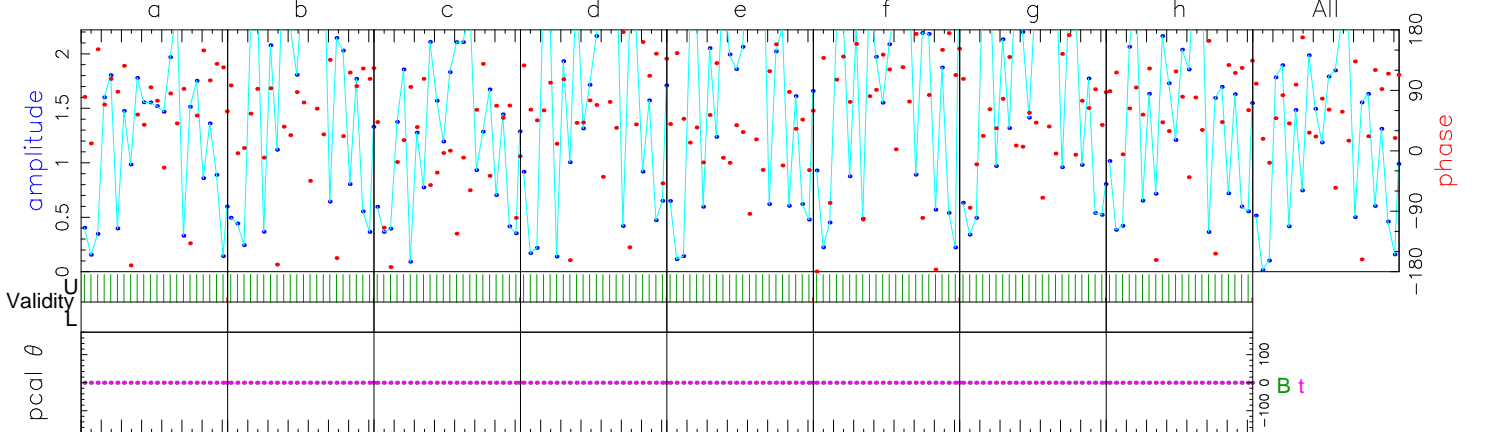
Fringe quality 4

SNR 41.5
Int time 419.824
Amp 0.740
Phase 57.2
PFD 0.0e+00
Delays (us)
SBD -0.004703
MBD -0.005742
Fringe rate (Hz) 0.023958
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c222d
Exper # 16383
Yr:day 2022:282
Start 183000.00
Stop 183659.84
FRT 183330.00
Corr/FF/build
2023:040:225757
2023:044:123013
2021:252:122852
RA & Dec (J2000)
01h12m05.824716s
+22°44'38.786350"



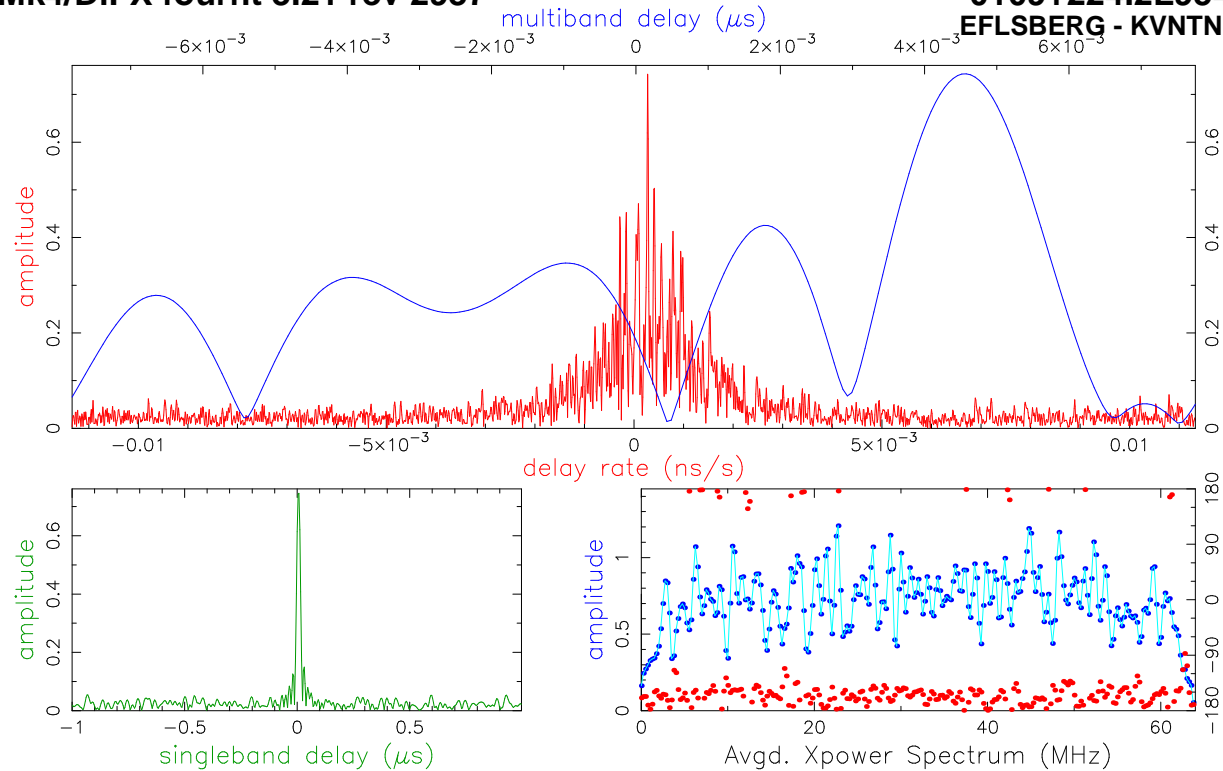
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All		
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0				
B	0	0	0	0	0	0	0	0	APs used			
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)	-6.53167613711E+03								Resid mbdelay (usec)	-5.74157E-03 +/- 2.6E-05		
Sband delay (usec)	-6.53167509854E+03								Resid sbdelay (usec)	-4.70300E-03 +/- 2.1E-04		
Phase delay (usec)	-6.53167039369E+03								Resid phdelay (usec)	1.84507E-06 +/- 8.9E-08		
Delay rate (us/s)	1.72221036603E+00								Resid rate (us/s)	2.78126E-07 +/- 3.7E-10		
Total phase (deg)		-256.6							Resid phase (deg)	57.2 +/- 2.8		
	RMS	Theor.	Amplitude	0.740 +/- 0.018					Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	59.5	6.6	Search (2048X32)	0.728					Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
amp/seg (%)	114.5	11.6	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
ph/frq (deg)	44.5	3.9	Inc. seg. avg.	1.177					Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011	
amp/frq (%)	29.6	6.8	Inc. frq. avg.	0.910					Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

B: az 85.5 el 26.5 pa -43.4 t: az 266.5 el 50.1 pa 64.7 u,v (fr/asec) -10647.670 3345.943 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222d/v1/3mm/3001/No0005/Bt..2L954T Output file: /Exps/c222d/v1/3mm/3001/No0005/Bt.W.31.2L954T

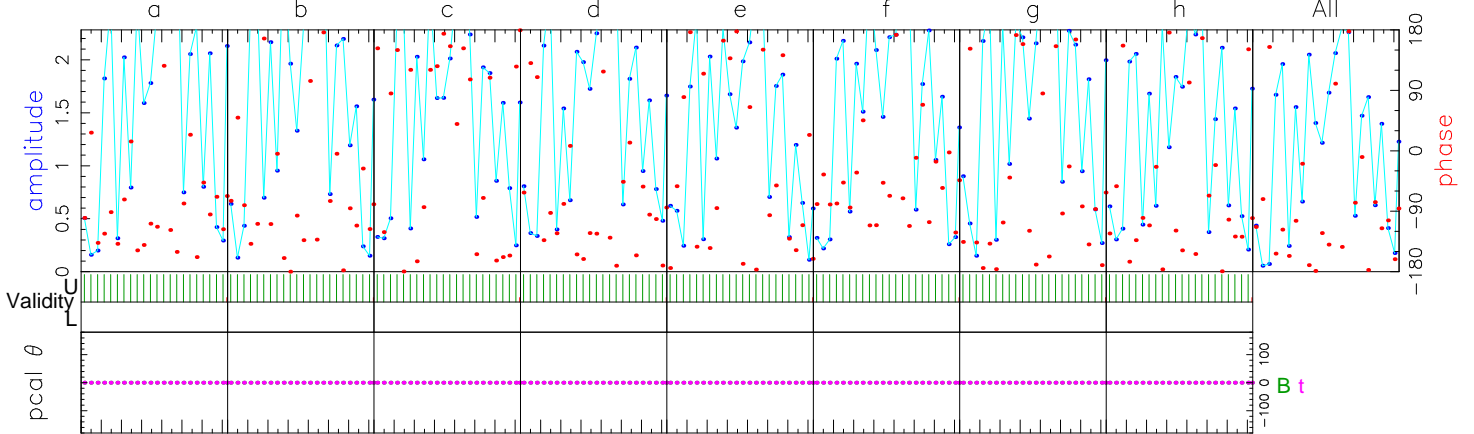


Fringe quality 4

SNR 42.6
Int time 419.824
Amp 0.761
Phase -143.2
PFD 0.0e+00
Delays (us)
SBD 0.005943
MBD 0.004608
Fringe rate (Hz)
0.023976
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

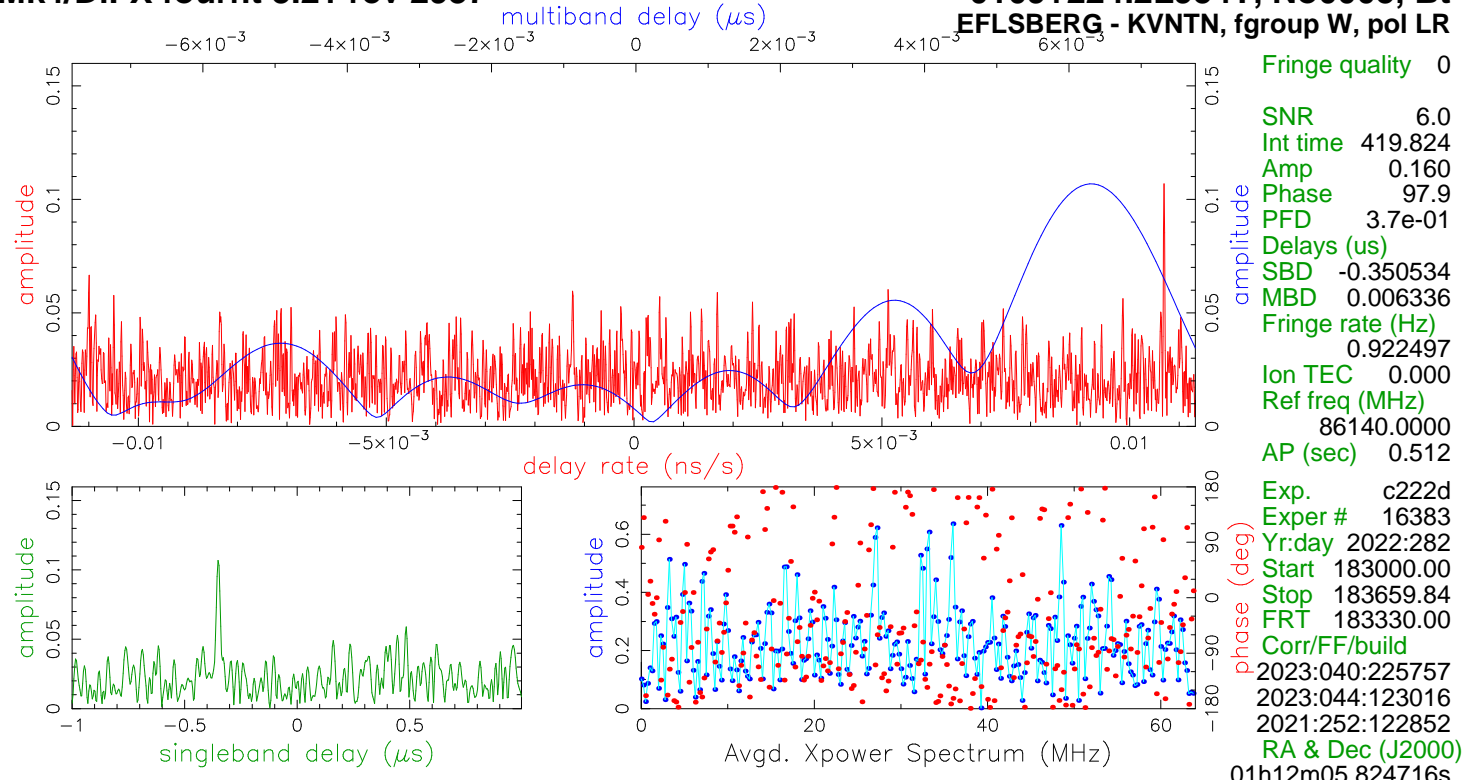
Exp. c222d
Exper # 16383
Yr:day 2022:282
Start 183000.00
Stop 183659.84
FRT 183330.00
Corr/FF/build
2023:040:225757
2023:044:123009
2021:252:122852
RA & Dec (J2000)
01h12m05.824716s
+22°44'38.786350"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

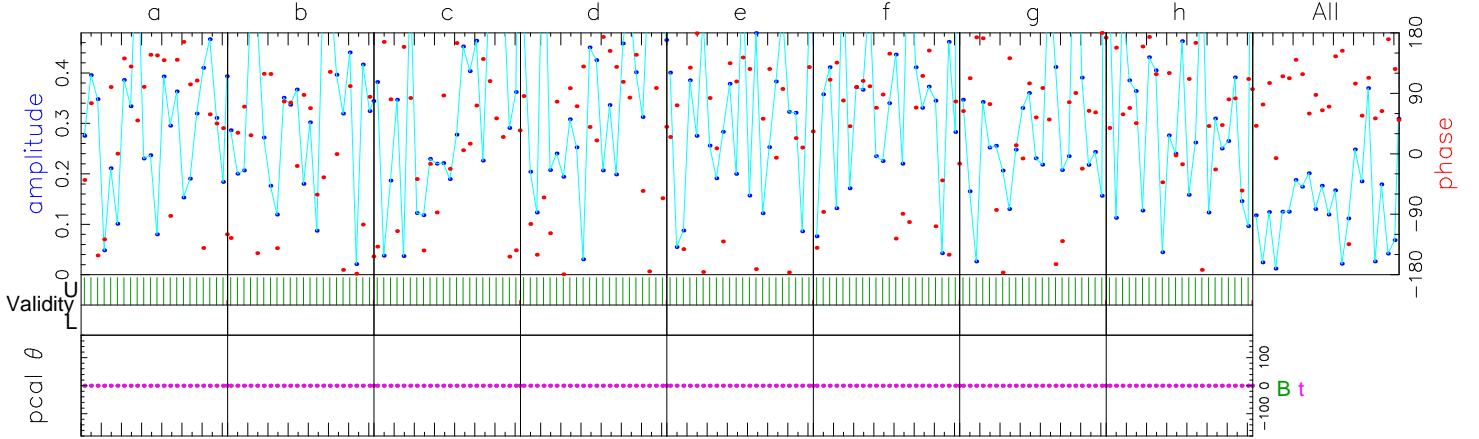


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-117.9	-136.6	153.0	-128.1	-175.5	-74.5	-159.4	-152.7	Phase	-143.2
	1.0	1.0	0.9	0.9	0.8	1.0	0.9	0.9	Ampl.	0.9
	257.3	258.4	259.2	259.3	259.4	259.1	258.8	258.2	Sbd box	258.5
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.53166578714E+03		Apriori delay (usec)		-6.53167039554E+03		Resid mbdelay (usec)		4.60840E-03	+/- 2.5E-05
Sband delay (usec)	-6.53166445204E+03		Apriori clock (usec)		-3.3943192E+01		Resid sbdelay (usec)		5.94350E-03	+/- 2.0E-04
Phase delay (usec)	-6.53167040016E+03		Apriori clockrate (us/s)		-4.3499999E-07		Resid phdelay (usec)		-4.61621E-06	+/- 8.7E-08
Delay rate (us/s)	1.72221036624E+00		Apriori rate (us/s)		1.72221008790E+00		Resid rate (us/s)		2.78339E-07	+/- 3.6E-10
Total phase (deg)			Apriori accel (us/s/s)		4.43344718902E-05		Resid phase (deg)		-143.2	+/- 2.7

ph/seg (deg) 58.7 6.4 Search (2048X32) 0.731 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 111.6 11.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.0 3.8 Inc. seg. avg. 1.170 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 22.2 6.6 Inc. frq. avg. 0.918 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 85.5 el 26.5 pa -43.4 t: az 266.5 el 50.1 pa 64.7 u,v (fr/asec) -10647.670 3345.943 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c222d/v1/3mm/3001/No0005/Bt..2L954T Output file: /Exps/c222d/v1/3mm/3001/No0005/Bt.W.5.2L954T



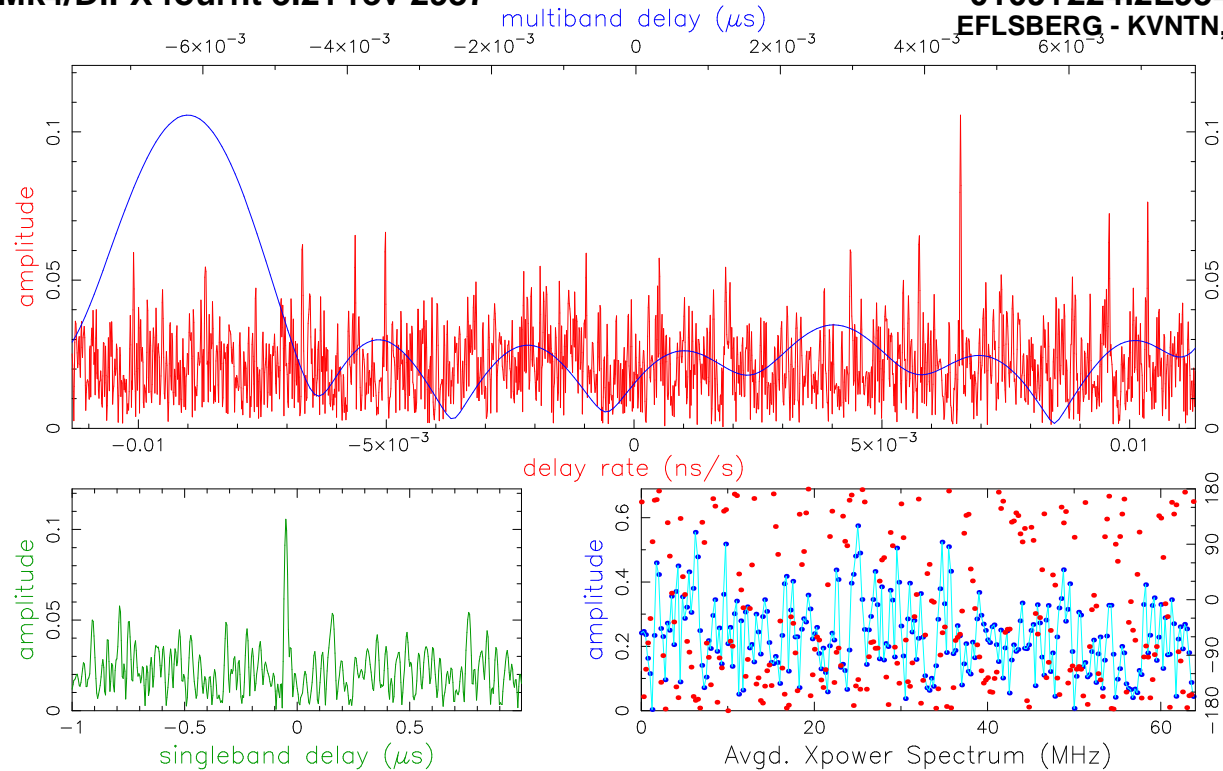
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
109.3	74.3	63.5	105.6	125.3	126.5	85.7	78.8	78.8	Phase	97.9
0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
177.9	492.3	174.6	285.2	165.7	110.7	82.3	339.3	339.3	Sbd box	167.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	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	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.53202343455E+03		Apriori delay (usec)	-6.53167039554E+03		Resid mbdelay (usec)	6.33599E-03		+/-	1.8E-04
Sband delay (usec)	-6.53202092954E+03		Apriori clock (usec)	-3.3943192E+01		Resid sbdelay (usec)	-3.50534E-01		+/-	1.4E-03
Phase delay (usec)	-6.53167039238E+03		Apriori clockrate (us/s)	-4.3499999E-07		Resid phdelay (usec)	3.15582E-06		+/-	6.1E-07
Delay rate (us/s)	1.72222079718E+00		Apriori rate (us/s)	1.72221008790E+00		Resid rate (us/s)	1.07093E-05		+/-	2.5E-09
Total phase (deg)		-216.0	Apriori accel (us/s/s)	4.43344718902E-05		Resid phase (deg)	97.9		+/-	19.1

	RMS	Theor.	Amplitude	0.160 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	49.4	45.7	Search (2048X32)	0.103	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/seg (%)	82.1	79.7	Interp.	0.000	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	25.8	26.9	Inc. seg. avg.	0.152	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	24.7	47.0	Inc. frq. avg.	0.154					

B: az 85.5 el 26.5 pa -43.4 t: az 266.5 el 50.1 pa 64.7 u,v (fr/asec) -10647.670 3345.943 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c222d/v1/3mm/3001/No0005/Bt..2L954T Output file: /Exps/c222d/v1/3mm/3001/No0005/Bt.W.56.2L954T

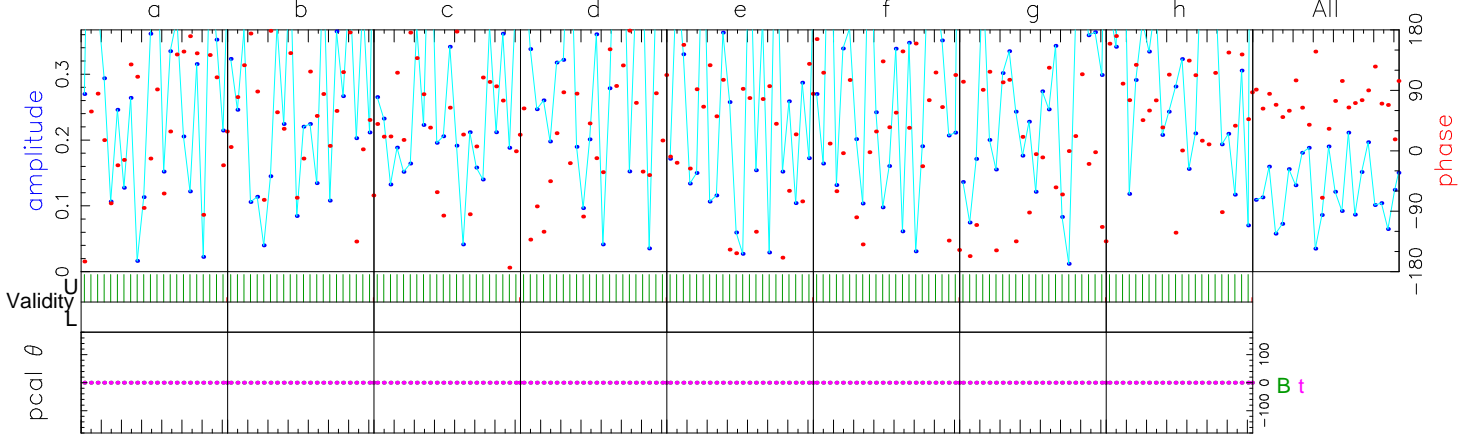


Fringe quality 0

SNR 5.9
Int time 419.824
Amp 0.122
Phase 68.8
PFD 5.1e-01
Delays (us)
SBD -0.050020
MBD -0.006192
Fringe rate (Hz)
0.568297
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c222d
Exper # 16383
Yr:day 2022:282
Start 183000.00
Stop 183659.84
FRT 183330.00
Corr/FF/build
2023:040:225757
2023:044:123020
2021:252:122852
RA & Dec (J2000)
01h12m05.824716s
+22°44'38.786350"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-6.53172346212E+03									
Sband delay (usec)	-6.53172041529E+03									
Phase delay (usec)	-6.53167039332E+03									
Delay rate (us/s)	1.72221668527E+00									
Total phase (deg)			-245.0							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 41.4 46.2
amp/seg (%) 48.5 80.7
ph/frq (deg) 18.1 27.3
amp/frq (%) 30.9 47.6

RMS Theor. Amplitude 0.122 +/- 0.021
Search (2048X32) 0.102
Interp. 0.000
Inc. seg. avg. 0.108
Inc. frq. avg. 0.114

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

B: az 85.5 el 26.5 pa -43.4 t: az 266.5 el 50.1 pa 64.7 u,v (fr/asec) -10647.670 3345.943 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c222d/v1/3mm/3001/No0005/Bt..2L954T Output file: /Exps/c222d/v1/3mm/3001/No0005/Bt.W.70.2L954T