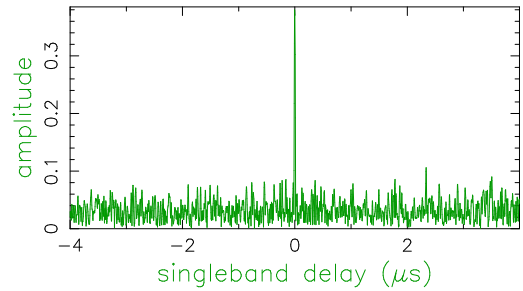
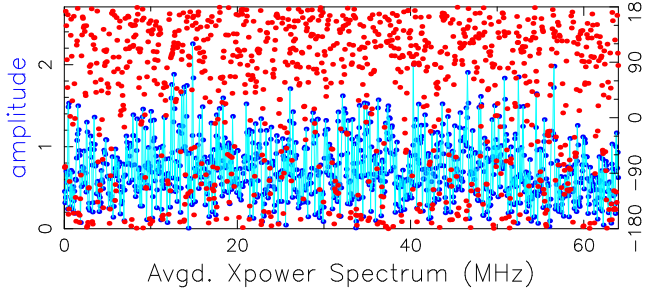


Fringe quality 9

SNR 14.9
 Int time 199.668
 Amp 0.385
 Phase 125.1
 PFD 5.5e-41
 Delays (us)
 SBD -0.002378
 MBD -0.001583
 Fringe rate (Hz)
 0.028397
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

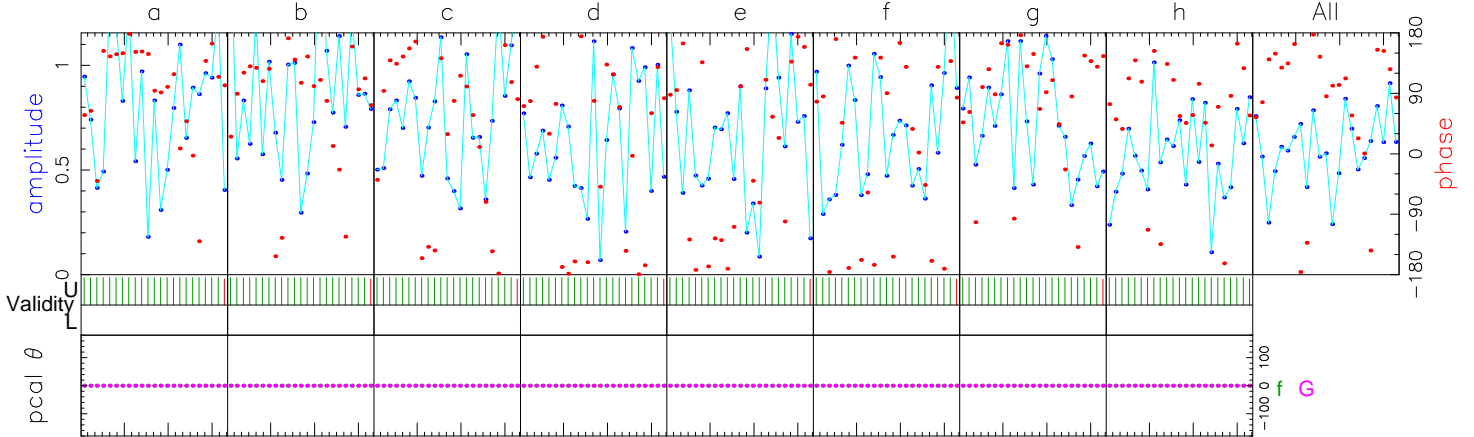


delay rate (ns/s)



Exp. c221d
 Exper # 16383
 Yr:day 2022:094
 Start 081501.00
 Stop 081820.68
 FRT 081831.00
 Corr/FF/build
 2022:355:085045
 2022:355:085058
 2021:252:122852
 RA & Dec (J2000)
 17h33m02.705790s
 -13°04'49.548180"

Amp. and Phase vs. time for each freq., 23 segs, 17 APs / seg (8.70 sec / seg.), time ticks 10 sec

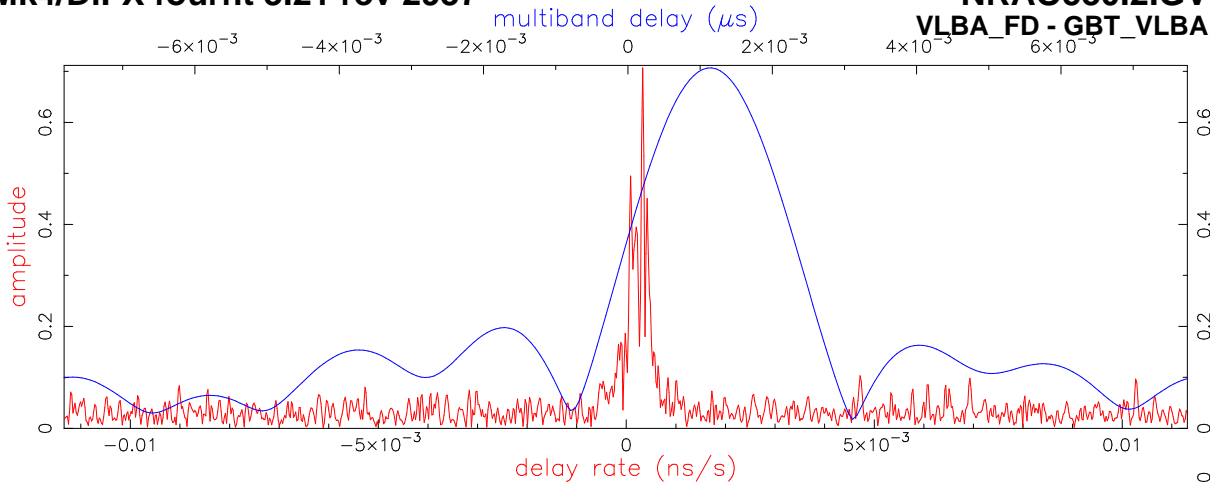


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	390/0	390/0	390/0	390/0	390/0	390/0	390/0	390/0		
f	0	0	0	0	0	0	0	0		
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
G	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-2.60651074211E+03	Apriori delay (usec)	-2.60650915956E+03	Resid mbdelay (usec)	-1.58256E-03	+/-	7.3E-05
Sband delay (usec)	-2.60651153706E+03	Apriori clock (usec)	3.4422157E+01	Resid sbdelay (usec)	-2.37750E-03	+/-	5.8E-04
Phase delay (usec)	-2.60650915552E+03	Apriori clockrate (us/s)	1.6914001E-07	Resid phdelay (usec)	4.03532E-06	+/-	2.5E-07
Delay rate (us/s)	4.78395622487E-01	Apriori rate (us/s)	4.78395292828E-01	Resid rate (us/s)	3.29659E-07	+/-	2.2E-09
Total phase (deg)	123.6	Apriori accel (us/s/s)	1.69036679490E-05	Resid phase (deg)	125.1	+/-	7.7

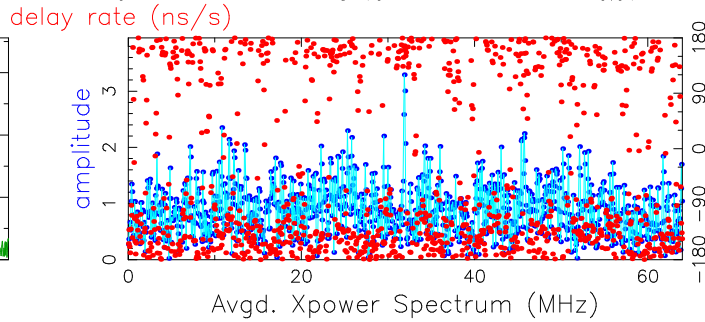
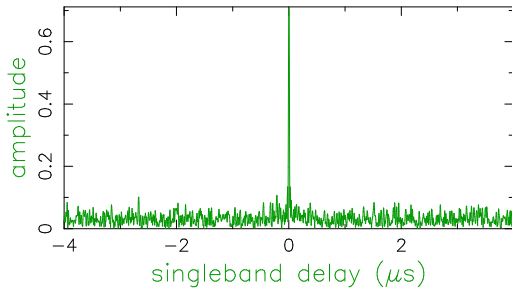
ph/seg (deg)	55.9	RMS	18.5	Theor.	18.5	Amplitude	0.385 +/- 0.026	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	71.4	Search (1024X32)	0.368	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000	4.000	
ph/frq (deg)	18.2	Inc. seg. avg.	0.577	Inc. frq. avg.	0.387	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	18.3	Inc. frq. avg.	0.387	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags:	1024	t_cohere	infinite

f: az 123.5 el 24.0 pa -47.4 G: az 148.0 el 32.5 pa -24.6 u,v (fr/asec) -2788.062 -1280.868 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/FRINGE/3mm/1234/No0128/fG..2IGVHI Output file: /Exps/c221d/FRINGE/3mm/1234/No0128/fG.W.2.2IGVHI



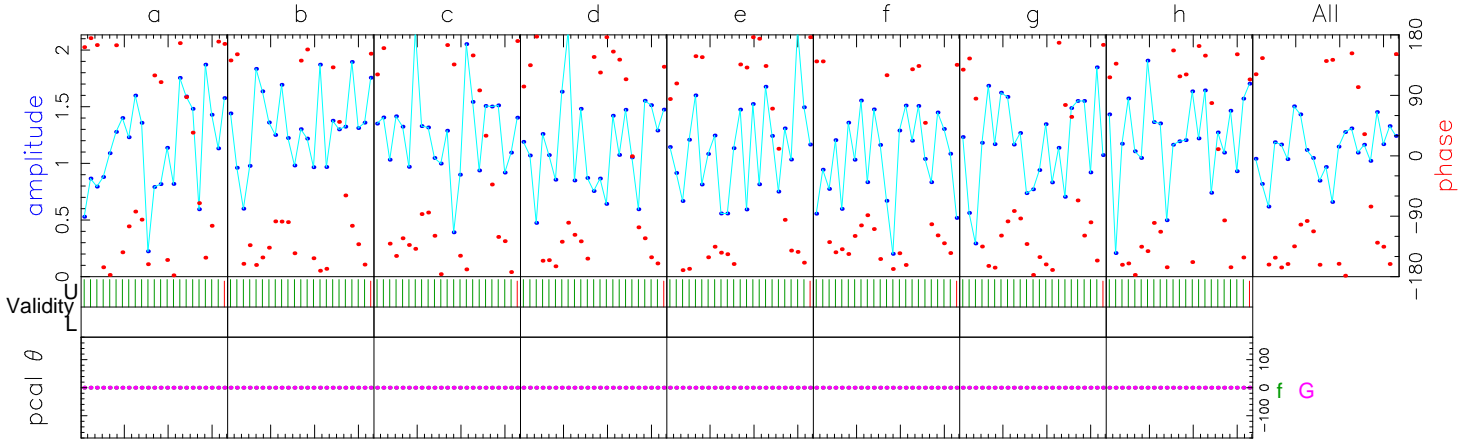
Fringe quality 7

SNR 27.5
 Int time 199.668
 Amp 0.712
 Phase -163.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.001039
 MBD 0.001161
 Fringe rate (Hz)
 0.028279
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c221d
 Exper # 16383
 Yr:day 2022:094
 Start 081501.00
 Stop 081820.68
 FRT 081831.00
 Corr/FF/build
 2022:355:085045
 2022:355:085104
 2021:252:122852
 RA & Dec (J2000)
 17h33m02.705790s
 -13°04'49.548180"

Amp. and Phase vs. time for each freq., 23 segs, 17 APs / seg (8.70 sec / seg.), time ticks 10 sec



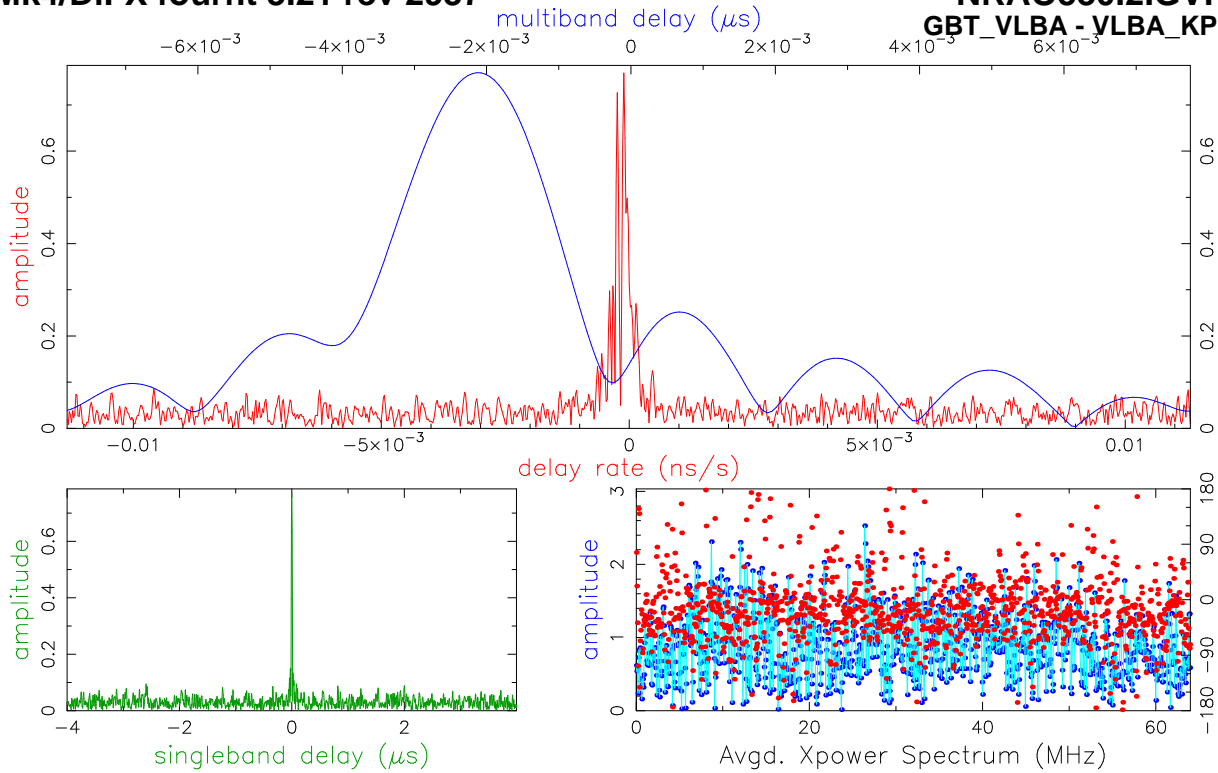
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-167.9	-156.8	-153.8	-168.4	176.7	-149.9	-145.1	-178.8	Phase	-163.0
	0.6	0.9	0.7	0.7	0.7	0.7	0.7	0.8	Ampl.	0.7
	1024.9	1025.2	1025.3	1025.1	1025.6	1025.3	1024.4	1025.7	Sbd box	1025.3
U/L	390/0	390/0	390/0	390/0	390/0	390/0	390/0	390/0	APs used	
f	0	0	0	0	0	0	0	0	PC freqs	
G	0	0	0	0	0	0	0	0	PC freqs	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-2.60650799836E+03	Apriori delay (usec)	-2.60650915956E+03	Resid mbdelay (usec)	1.16119E-03	+/-	3.9E-05
Sband delay (usec)	-2.60650812031E+03	Apriori clock (usec)	3.4422157E+01	Resid sbdelay (usec)	1.03925E-03	+/-	3.1E-04
Phase delay (usec)	-2.60650916482E+03	Apriori clockrate (us/s)	1.6914001E-07	Resid phdelay (usec)	-5.25662E-06	+/-	1.3E-07
Delay rate (us/s)	4.78395621123E-01	Apriori rate (us/s)	4.78395292828E-01	Resid rate (us/s)	3.28295E-07	+/-	1.2E-09
Total phase (deg)	-164.6	Apriori accel (us/s/s)	1.69036679490E-05	Resid phase (deg)	-163.0	+/-	4.2

ph/seg (deg)	57.5	Theor.	10.0	Amplitude	0.712 +/- 0.026	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	65.0		17.4	Search (1024X32)	0.696	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
ph/frq (deg)	14.9		5.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	8.9		10.3	Inc. seg. avg.	1.099	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.721	Data rate (Mb/s):	2048	nlags: 1024 t_cohere infinite	ion window (TEC)	0.00 0.00

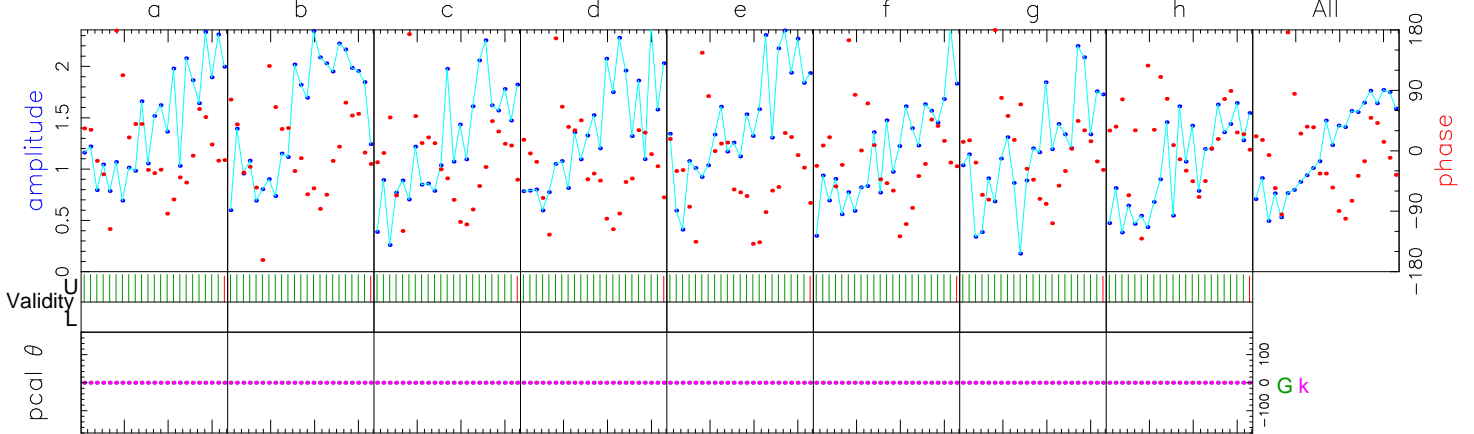
f: az 123.5 el 24.0 pa -47.4 G: az 148.0 el 32.5 pa -24.6 u,v (fr/asec) -2788.062 -1280.868 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/FRINGE/3mm/1234/No0128/fG..2IGVHI Output file: /Exps/c221d/FRINGE/3mm/1234/No0128/fG.W.7.2IGVHI



Fringe quality 6
SNR 30.4
Int time 199.668
Amp 0.786
Phase -15.9
PFD 0.0e+00
Delays (us)
SBD -0.001869
MBD -0.002165
Fringe rate (Hz)
-0.008871
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 081501.00
Stop 081820.68
FRT 081831.00
Corr/FF/build
2022:355:085045
2022:355:085056
2021:252:122852
RA & Dec (J2000)
17h33m02.705790s
-13°04'49.548180"

Amp. and Phase vs. time for each freq., 23 segs, 17 APs / seg (8.70 sec / seg.), time ticks 10 sec

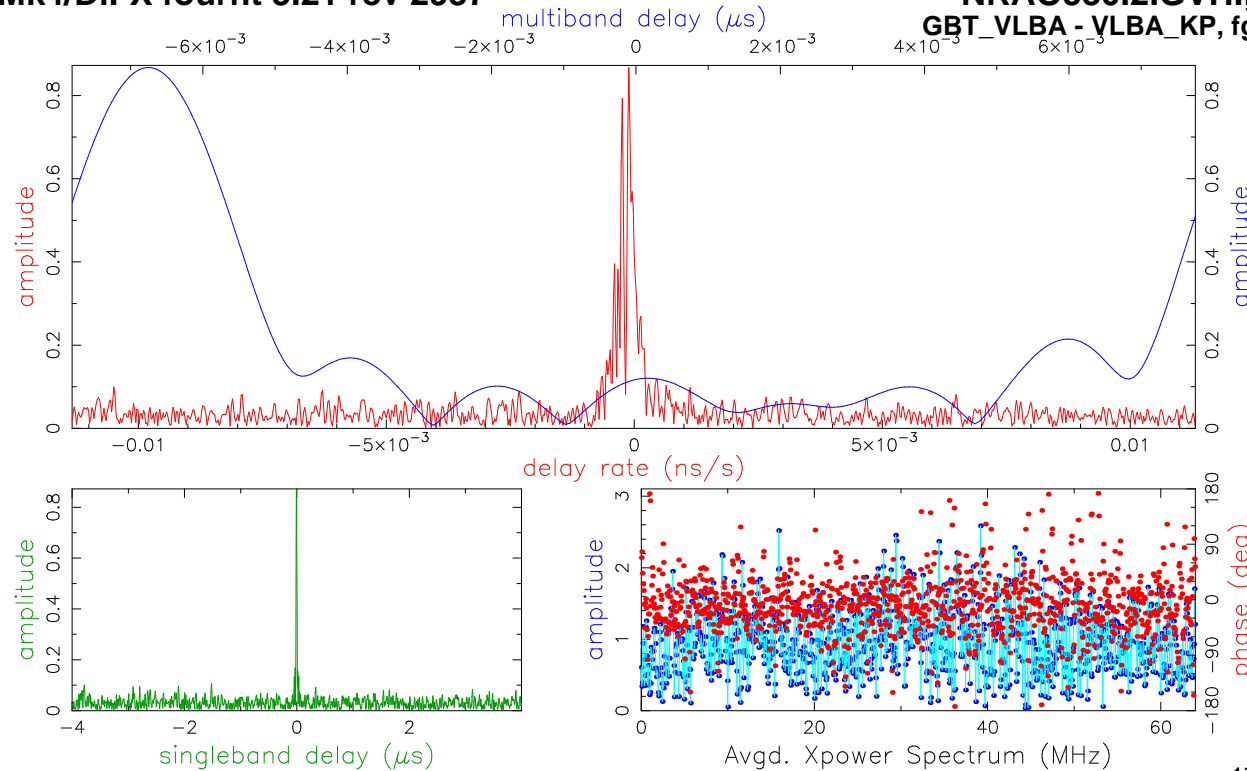


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-7.5	-5.2	-26.2	-33.1	-37.9	-19.1	-11.8	17.9	Phase	-15.9
	0.9	0.9	0.8	0.8	0.8	0.7	0.8	0.6	Ampl.	0.8
	1024.9	1024.6	1024.4	1024.6	1024.2	1024.6	1024.3	1025.1	Sbd box	1024.5
U/L	390/0	390/0	390/0	390/0	390/0	390/0	390/0	390/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
k	0	0	0	0	0	0	0	0	PC freqs	
G:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	4.78206282735E+03	Apriori delay (usec)	4.78206499279E+03	Resid mbdelay (usec)	-2.16544E-03	+/-	3.6E-05
Sband delay (usec)	4.78206312354E+03	Apriori clock (usec)	-1.7797138E+01	Resid sbdelay (usec)	-1.86925E-03	+/-	2.8E-04
Phase delay (usec)	4.78206499227E+03	Apriori clockrate (us/s)	5.9999999E-08	Resid phdelay (usec)	-5.13321E-07	+/-	1.2E-07
Delay rate (us/s)	-5.65254503814E-01	Apriori rate (us/s)	-5.65254400829E-01	Resid rate (us/s)	-1.02985E-07	+/-	1.1E-09
Total phase (deg)	156.4	Apriori accel (us/s/s)	-2.78792294825E-05	Resid phase (deg)	-15.9	+/-	3.8

ph/seg (deg)	60.2	RMS	9.1	Theor.	9.1	Amplitude	0.786 +/- 0.026	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-4.000	4.000
amp/seg (%)	75.0	60.2	9.1	Search (1024X32)	0.743	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)	19.3	75.0	15.8	Inc. seg. avg.	1.189	Inc. frq. avg.	0.797	Sample rate (MSamp/s):	128	nlags:	1024 t_cohere infinite	dr window (ns/s)	-0.011	0.011
amp/frq (%)	11.4	19.3	5.3	Inc. frq. avg.	0.797			Data rate (Mb/s):	2048	ion window (TEC)	0.00	0.00	0.00	0.00

G: az 148.0 el 32.5 pa -24.6 k: az 118.7 el 17.8 pa -49.5 u,v (fr/asec) 3281.264 1312.454 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221d/FRINGE/3mm/1234/No0128/Gk..2IGVHI Output file: /Exps/c221d/FRINGE/3mm/1234/No0128/Gk.W.1.2IGVHI

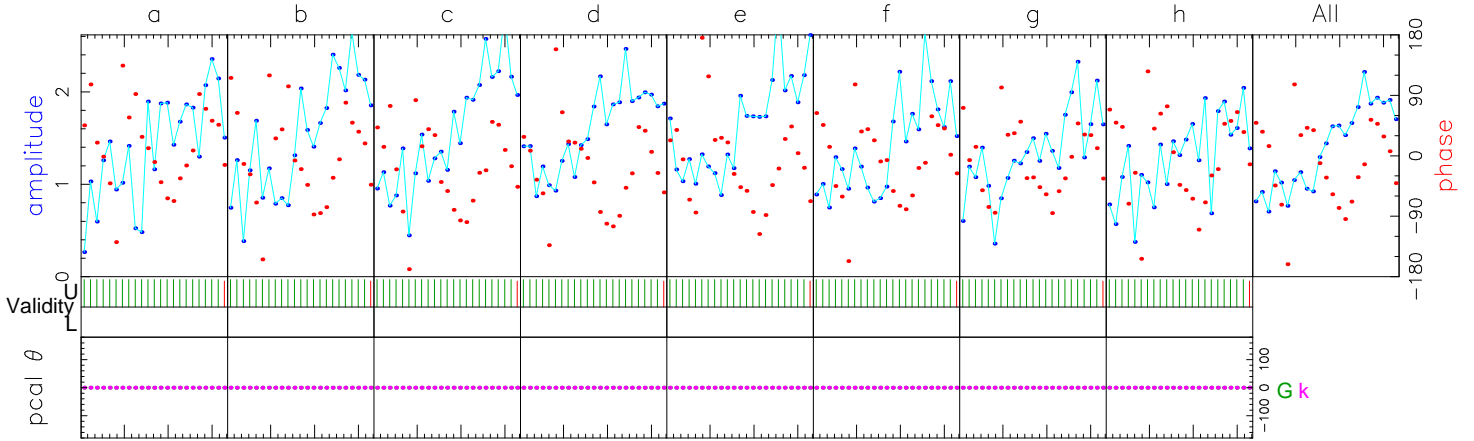


Fringe quality 6

SNR 33.7
Int time 199.668
Amp 0.872
Phase -9.8
PFD 0.0e+00
Delays (us)
SBD -0.006849
MBD -0.006734
Fringe rate (Hz) -0.008602
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

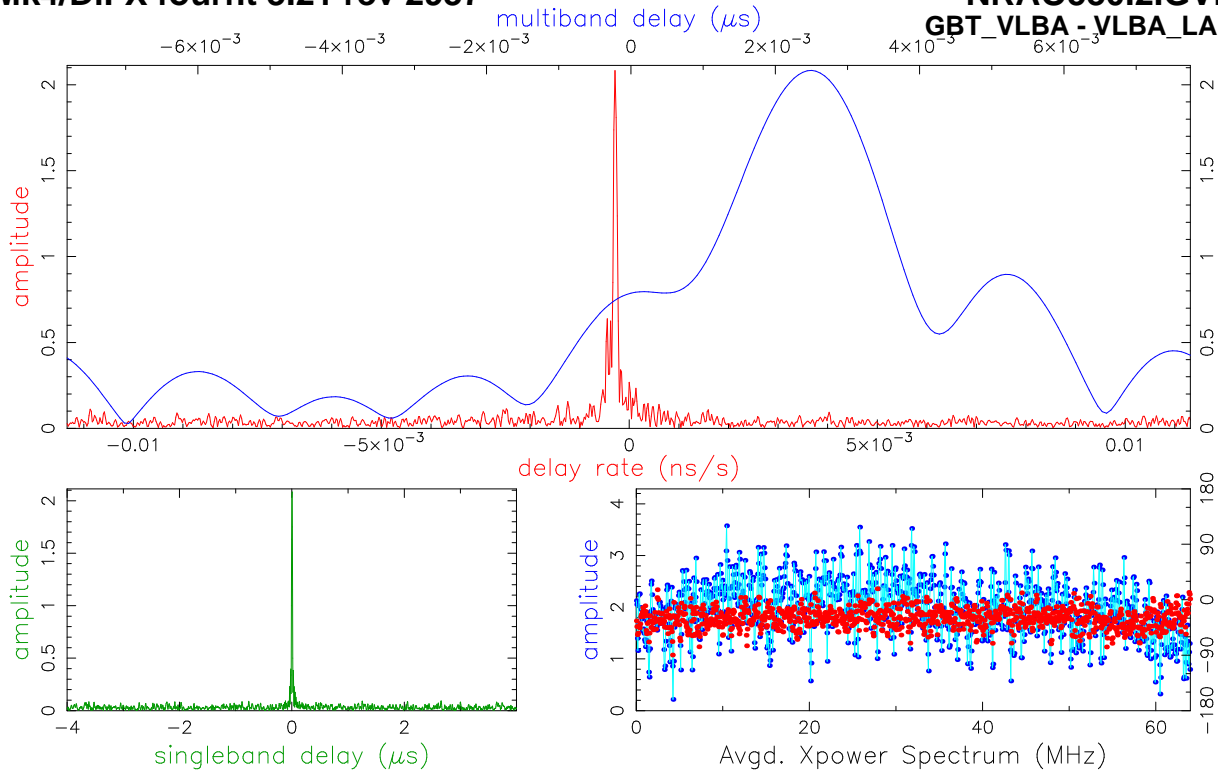
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 081501.00
Stop 081820.68
FRT 081831.00
Corr/FF/build
2022:355:085045
2022:355:085102
2021:252:122852
RA & Dec (J2000)
17h33m02.705790s
-13°04'49.548180"

Amp. and Phase vs. time for each freq., 23 segs, 17 APs / seg (8.70 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
	10.7	-5.1	-15.4	-25.5	-24.8	-4.8	-7.7	4.1	Phase	-9.8
	0.8	0.8	1.0	1.0	1.0	0.9	1.0	0.6	Ampl.	0.9
	1023.2	1023.1	1022.8	1022.9	1023.5	1023.6	1023.8	1023.3	Sbd box	1023.2
U/L	390/0	390/0	390/0	390/0	390/0	390/0	390/0	390/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
k	0	0	0	0	0	0	0	0	PC freqs	
G:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.78205825863E+03		Apriori delay (usec)		4.78206499279E+03		Resid mbdelay (usec)		-6.73416E-03	+/- 3.2E-05
Sband delay (usec)	4.78205814429E+03		Apriori clock (usec)		-1.7797138E+01		Resid sbdelay (usec)		-6.84850E-03	+/- 2.6E-04
Phase delay (usec)	4.78206499247E+03		Apriori clockrate (us/s)		5.9999999E-08		Resid phdelay (usec)		-3.15949E-07	+/- 1.1E-07
Delay rate (us/s)	-5.65254500686E-01		Apriori rate (us/s)		-5.65254400829E-01		Resid rate (us/s)		-9.98570E-08	+/- 9.5E-10
Total phase (deg)	162.5		Apriori accel (us/s/s)		-2.78792294825E-05		Resid phase (deg)		-9.8	+/- 3.4

ph/seg (deg) 60.0 8.2 Amplitude 0.872 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 77.9 14.2 Search (1024X32) 0.820 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 13.9 4.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 13.5 8.4 Inc. seg. avg. 1.375 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 G: az 148.0 el 32.5 pa -24.6 k: az 118.7 el 17.8 pa -49.5 u,v (fr/asec) 3281.264 1312.454 nlags: 1024 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c221d/FRINGE/3mm/1234/No0128/Gk..2IGVHI Output file: /Exps/c221d/FRINGE/3mm/1234/No0128/Gk.W.6.2IGVHI simultaneous interpolator

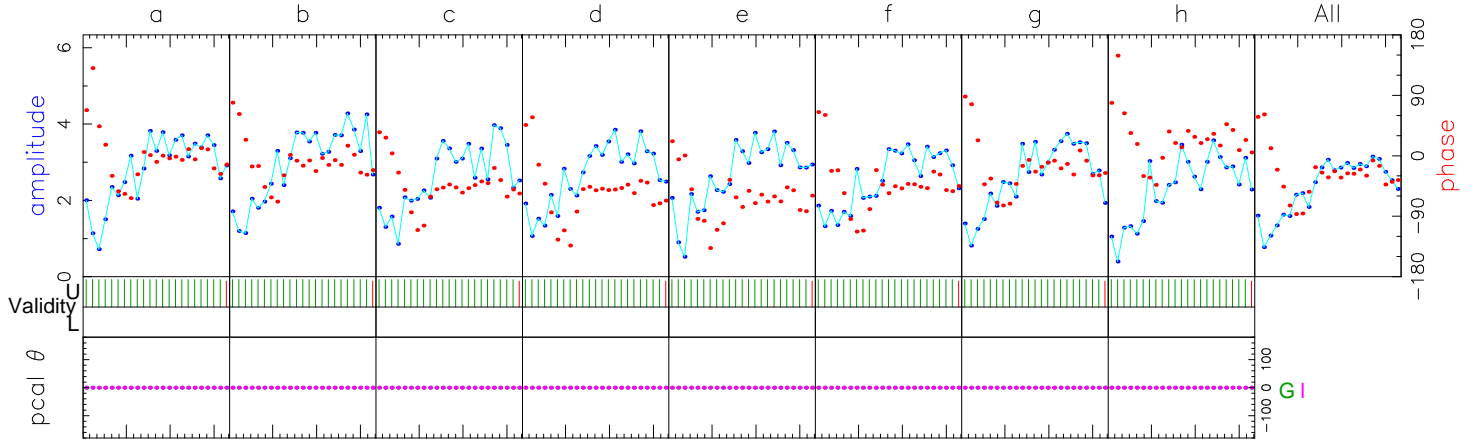


Fringe quality 4

SNR 81.6
Int time 199.668
Amp 2.113
Phase -30.0
PFD 0.0e+00
Delays (us)
SBD 0.002388
MBD 0.002458
Fringe rate (Hz) -0.024200
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

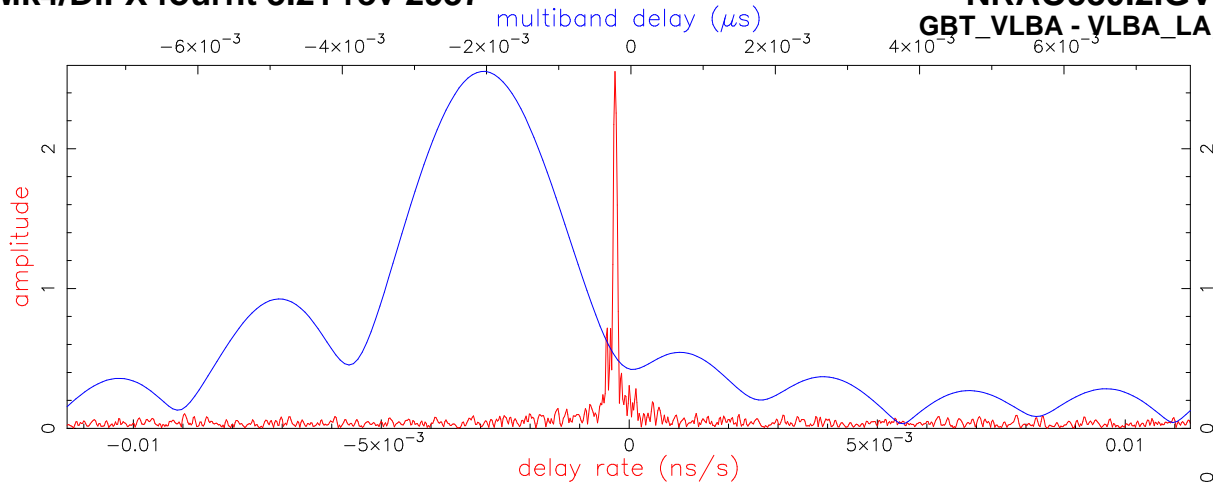
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 081501.00
Stop 081820.68
FRT 081831.00
Corr/FF/build
2022:355:085045
2022:355:085058
2021:252:122852
RA & Dec (J2000)
17h33m02.705790s
-13°04'49.548180"

Amp. and Phase vs. time for each freq., 23 segs, 17 APs / seg (8.70 sec / seg.), time ticks 10 sec



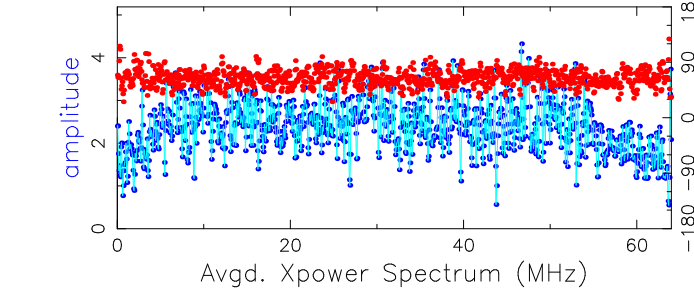
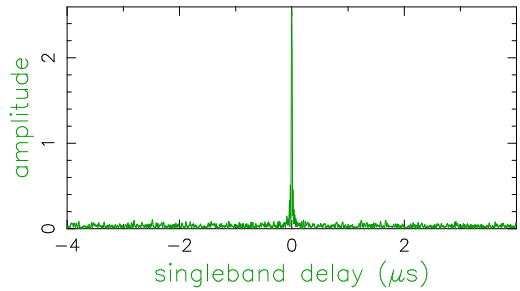
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-7.5	-13.4	-46.0	-56.4	-66.4	-46.7	-20.6	19.8	Phase	-30.0
	2.5	2.7	2.3	2.2	2.3	2.2	2.3	2.1	Ampl.	2.3
	1025.6	1025.8	1025.3	1025.4	1025.7	1025.7	1026.0	1026.4	Sbd box	1025.6
U/L	390/0	390/0	390/0	390/0	390/0	390/0	390/0	390/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
I	0	0	0	0	0	0	0	0	PC freqs	
G:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.16943169951E+03		Apriori delay (usec)		4.16942924144E+03		Resid mbdelay (usec)		2.45806E-03	+/- 1.3E-05
Sband delay (usec)	4.16943162969E+03		Apriori clock (usec)		-8.4030304E+00		Resid sbdelay (usec)		2.38825E-03	+/- 1.1E-04
Phase delay (usec)	4.16942924048E+03		Apriori clockrate (us/s)		4.0394999E-07		Resid phdelay (usec)		-9.65982E-07	+/- 4.5E-08
Delay rate (us/s)	-4.52332460236E-01		Apriori rate (us/s)		-4.52332179300E-01		Resid rate (us/s)		-2.80936E-07	+/- 3.9E-10
Total phase (deg)	278.9		Apriori accel (us/s/s)		-2.31580021864E-05		Resid phase (deg)		-30.0	+/- 1.4

ph/seg (deg) 35.2 3.4 Search (1024X32) 2.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 34.5 5.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
ph/frq (deg) 31.4 2.0 Inc. seg. avg. 2.334 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 13.0 3.5 Inc. frq. avg. 2.324 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 1024 t_cohere infinite dr window (ns/s) -0.011 0.011
G: az 148.0 el 32.5 pa -24.6 I: az 123.6 el 19.6 pa -43.5 u,v (fr/asec) 2623.754 747.411 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221d/FRINGE/3mm/1234/No0128/GI..2IGVHI Output file: /Exps/c221d/FRINGE/3mm/1234/No0128/GI.W.4.2IGVHI



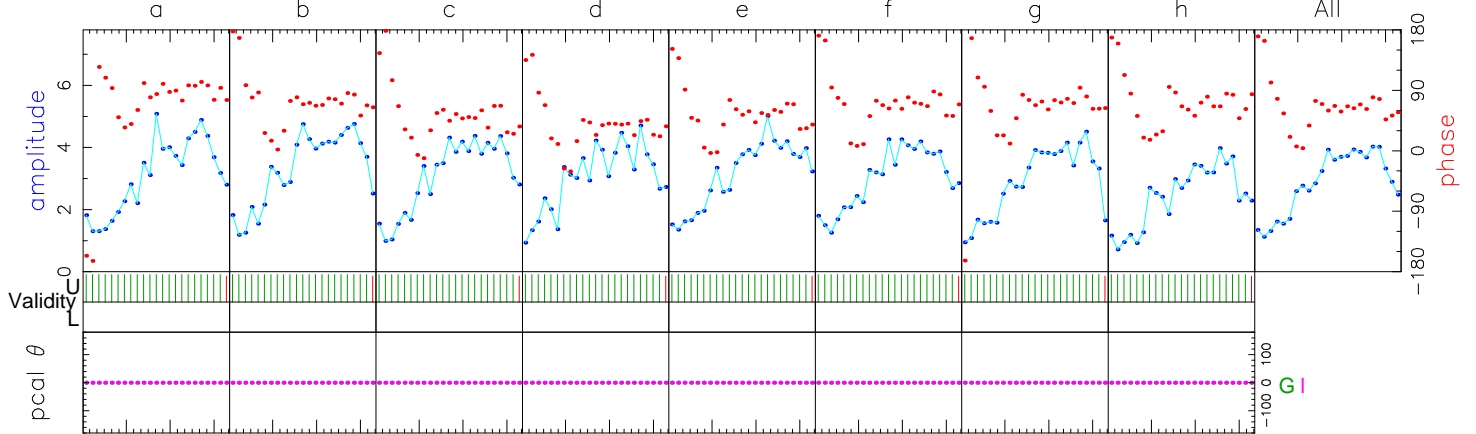
Fringe quality 5

SNR 100.3
Int time 199.668
Amp 2.596
Phase 61.3
PFD 0.0e+00
Delays (us)
SBD -0.002244
MBD -0.002002
Fringe rate (Hz)
-0.024174
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



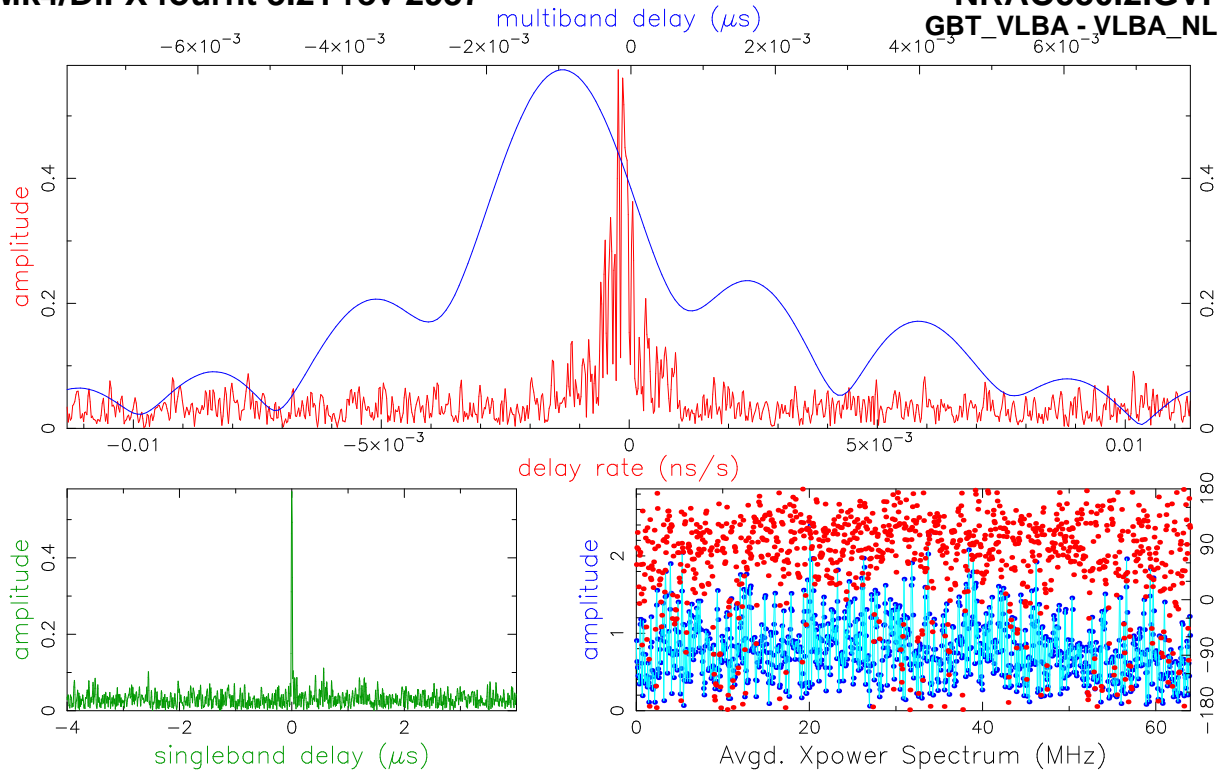
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 081501.00
Stop 081820.68
FRT 081831.00
Corr/FF/build
2022:355:085045
2022:355:085104
2021:252:122852
RA & Dec (J2000)
17h33m02.705790s
-13°04'49.548180"

Amp. and Phase vs. time for each freq., 23 segs, 17 APs / seg (8.70 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	390/0	390/0	390/0	390/0	390/0	390/0	390/0	390/0		1024.4
G	0	0	0	0	0	0	0	0		
I	0	0	0	0	0	0	0	0		
G:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
G:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
G	1000	1000	1000	1000	1000	1000	1000	1000		
I	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	4.16942723926E+03		Apriori delay (usec)		4.16942924144E+03		Resid mbdelay (usec)		-2.00219E-03	+/- 1.1E-05
Sband delay (usec)	4.16942699694E+03		Apriori clock (usec)		-8.4030304E+00		Resid sbdelay (usec)		-2.24450E-03	+/- 8.6E-05
Phase delay (usec)	4.16942924342E+03		Apriori clockrate (us/s)		4.0394999E-07		Resid phdelay (usec)		1.97594E-06	+/- 3.7E-08
Delay rate (us/s)	-4.52332459935E-01		Apriori rate (us/s)		-4.52332179300E-01		Resid rate (us/s)		-2.80636E-07	+/- 3.2E-10
Total phase (deg)	10.1		Apriori accel (us/s/s)		-2.31580021864E-05		Resid phase (deg)		61.3	+/- 1.1

RMS Theor. Amplitude 2.596 +/- 0.026
 ph/seg (deg) 38.5 2.7 Search (1024X32) 2.499 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 38.9 4.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 18.5 1.6 Inc. seg. avg. 2.864 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 8.3 2.8 Inc. frq. avg. 2.656 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 1024 t_cohere infinite dr window (ns/s) -0.011 0.011
 G: az 148.0 el 32.5 pa -24.6 I: az 123.6 el 19.6 pa -43.5 u,v (fr/asec) 2623.754 747.411 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/FRINGE/3mm/1234/No0128/GI..2IGVHI Output file: /Exps/c221d/FRINGE/3mm/1234/No0128/GI.W.8.2IGVHI

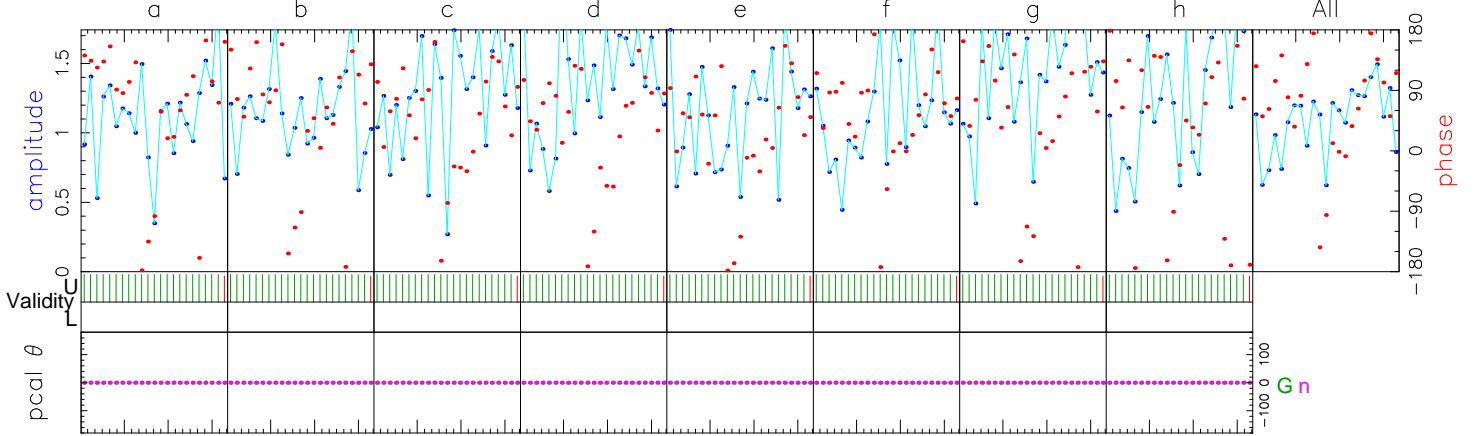


Fringe quality 8

SNR 22.4
Int time 199.668
Amp 0.581
Phase 88.6
PFD 0.0e+00
Delays (us)
SBD -0.001500
MBD -0.000973
Fringe rate (Hz) -0.018670
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

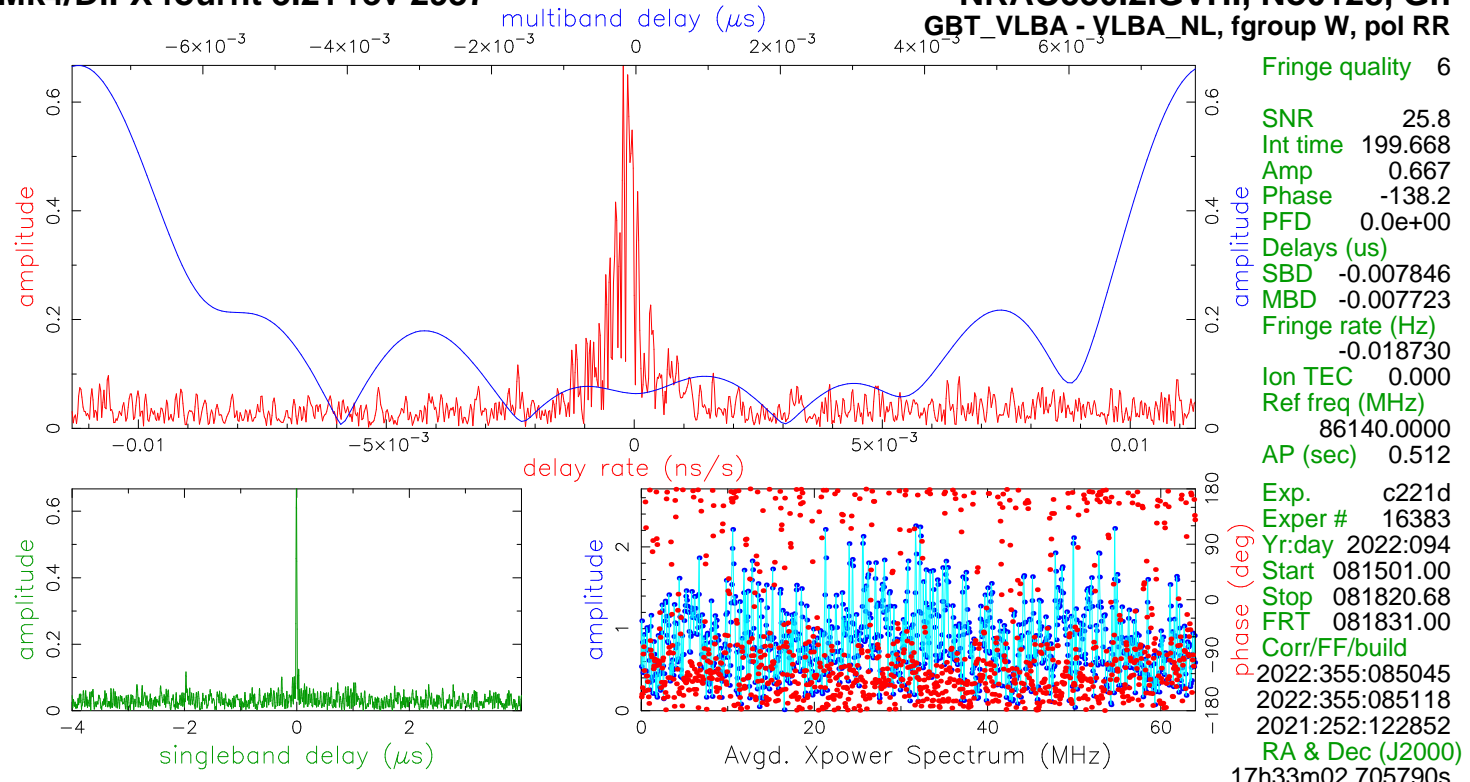
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 081501.00
Stop 081820.68
FRT 081831.00
Corr/FF/build
2022:355:085045
2022:355:085112
2021:252:122852
RA & Dec (J2000)
17h33m02.705790s
-13°04'49.548180"

Amp. and Phase vs. time for each freq., 23 segs, 17 APs / seg (8.70 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
	115.8	105.2	62.5	67.8	53.3	69.4	100.7	128.8	Phase	88.6
	0.7	0.6	0.6	0.7	0.5	0.7	0.7	0.6	Ampl.	0.6
	1024.7	1024.6	1024.0	1024.8	1024.5	1025.7	1024.9	1024.6	Sbd box	1024.6
U/L	390/0	390/0	390/0	390/0	390/0	390/0	390/0	390/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
n	0	0	0	0	0	0	0	0	PC freqs	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.55711185003E+03			Apriori delay (usec)	2.55711282347E+03			Resid mbdelay (usec)	-9.73442E-04	+/- 4.8E-05
Sband delay (usec)	2.55711132397E+03			Apriori clock (usec)	-3.2248047E+01			Resid sbdelay (usec)	-1.49950E-03	+/- 3.8E-04
Phase delay (usec)	2.55711282633E+03			Apriori clockrate (us/s)	-2.6422002E-07			Resid phdelay (usec)	2.85651E-06	+/- 1.6E-07
Delay rate (us/s)	-1.70671081369E-01			Apriori rate (us/s)	-1.70670864624E-01			Resid rate (us/s)	-2.16745E-07	+/- 1.4E-09
Total phase (deg)		309.6		Apriori accel (us/s/s)	-1.26307767711E-05			Resid phase (deg)	88.6	+/- 5.1

ph/seg (deg) 67.6 12.2 Theor. Amplitude 0.581 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 96.7 21.4 Search (1024X32) 0.562 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 30.3 7.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 14.7 12.6 Inc. seg. avg. 1.066 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 G: az 148.0 el 32.5 pa -24.6 n: az 137.7 el 24.4 pa -30.5 u,v (fr/asec) 982.842 -151.078 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/FRINGE/3mm/1234/No0128/Gn..2IGVHI Output file: /Exps/c221d/FRINGE/3mm/1234/No0128/Gn.W.11.2IGVHI



Fringe quality 6

SNR 25.8

Int time 199.668

Amp 0.667

Phase -138.2

PFD 0.0e+00

Delays (us)

SBD -0.007846

MBD -0.007723

Fringe rate (Hz)

-0.018730

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c221d

Exper # 16383

Yr:day 2022:094

Start 081501.00

Stop 081820.68

FRT 081831.00

Corr/FF/build

2022:355:085045

2022:355:085118

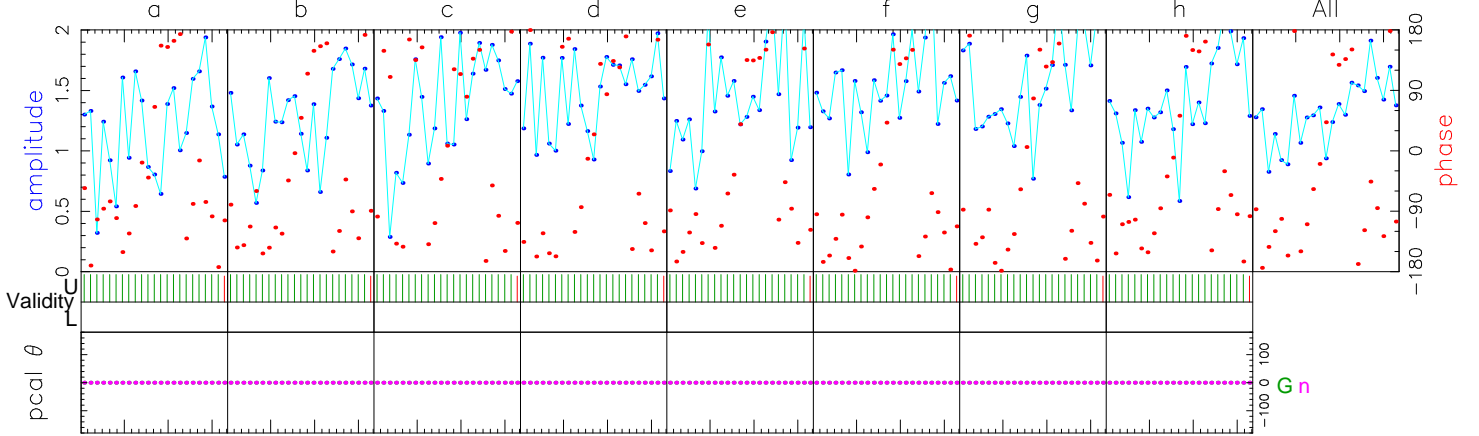
2021:252:122852

RA & Dec (J2000)

17h33m02.705790s

-13°04'49.548180"

Amp. and Phase vs. time for each freq., 23 segs, 17 APs / seg (8.70 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
	-106.4	-122.0	-171.2	-164.9	-148.4	-138.1	-140.7	-114.1	Phase	-138.2
	0.6	0.7	0.6	0.8	0.7	0.8	0.8	0.8	Ampl.	0.7
	1023.4	1022.5	1022.6	1022.7	1023.2	1023.2	1023.5	1022.5	Sbd box	1023.0
U/L	390/0	390/0	390/0	390/0	390/0	390/0	390/0	390/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
n	0	0	0	0	0	0	0	0	PC freqs	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.55710510013E+03		Apriori delay (usec)	2.55711282347E+03	Resid mbdelay (usec)	-7.72334E-03	+/-	4.2E-05		
Sband delay (usec)	2.55710497747E+03		Apriori clock (usec)	-3.2248047E+01	Resid sbdelay (usec)	-7.84600E-03	+/-	3.3E-04		
Phase delay (usec)	2.55711281902E+03		Apriori clockrate (us/s)	-2.6422002E-07	Resid phdelay (usec)	-4.45504E-06	+/-	1.4E-07		
Delay rate (us/s)	-1.70671082056E-01		Apriori rate (us/s)	-1.70670864624E-01	Resid rate (us/s)	-2.17432E-07	+/-	1.2E-09		
Total phase (deg)		82.9	Apriori accel (us/s/s)	-1.26307767711E-05	Resid phase (deg)	-138.2	+/-	4.4		

ph/seg (deg) 67.5 10.7 Amplitude 0.667 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

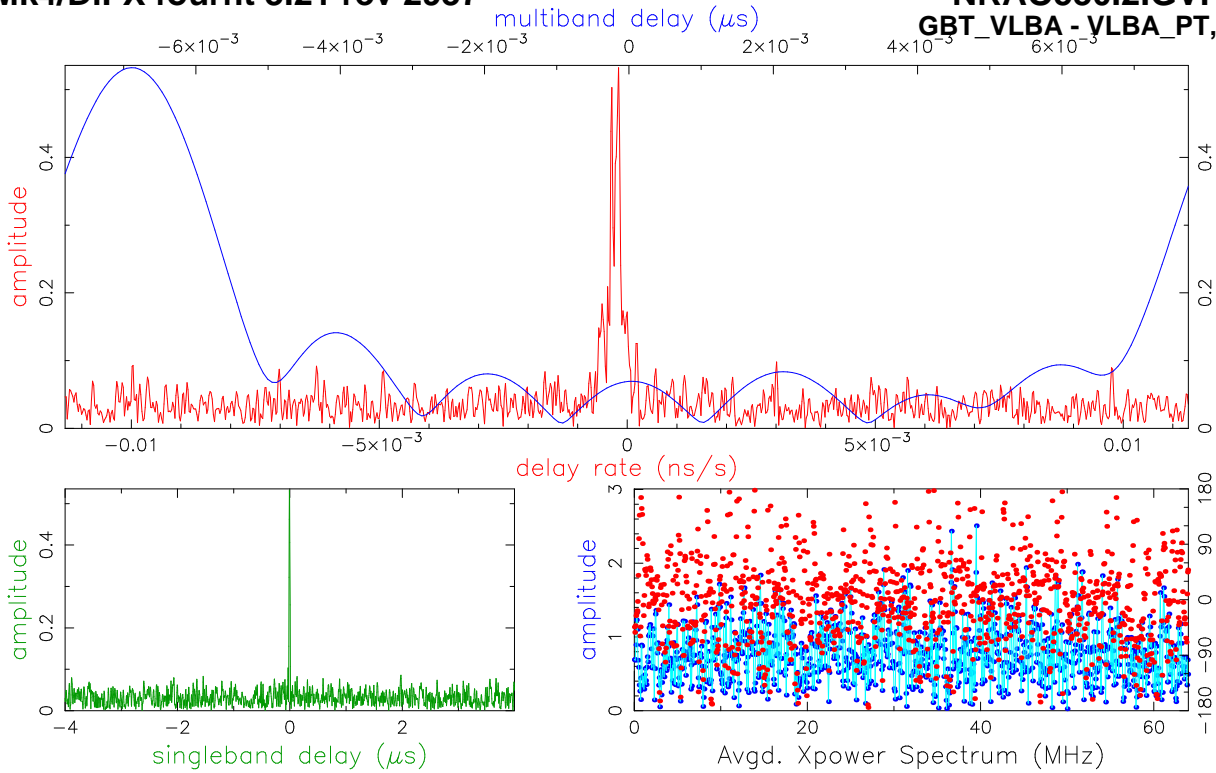
amp/seg (%) 105.3 18.6 Search (1024X32) 0.653 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000

ph/frq (deg) 25.1 6.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 15.5 11.0 Inc. seg. avg. 1.297 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011

G: az 148.0 el 32.5 pa -24.6 n: az 137.7 el 24.4 pa -30.5 u,v (fr/asec) 982.842 -151.078 nlags: 1024 t_cohere infinite ion window (TEC) 0.00 0.00

Control file: cf_1234_gmva Input file: /Exps/c221d/FRINGE/3mm/1234/No0128/Gn..2IGVHI Output file: /Exps/c221d/FRINGE/3mm/1234/No0128/Gn.W.12.2IGVHI simultaneous interpolator

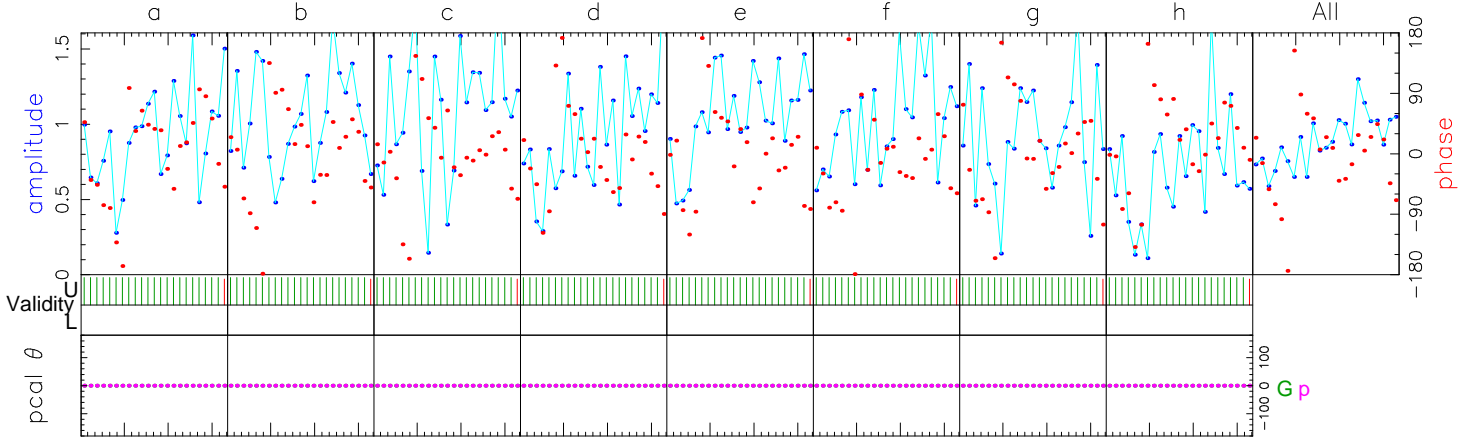


Fringe quality 9

SNR 20.7
Int time 199.668
Amp 0.536
Phase 1.1
PFD 0.0e+00
Delays (us)
SBD -0.006775
MBD -0.006866
Fringe rate (Hz)
-0.014410
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

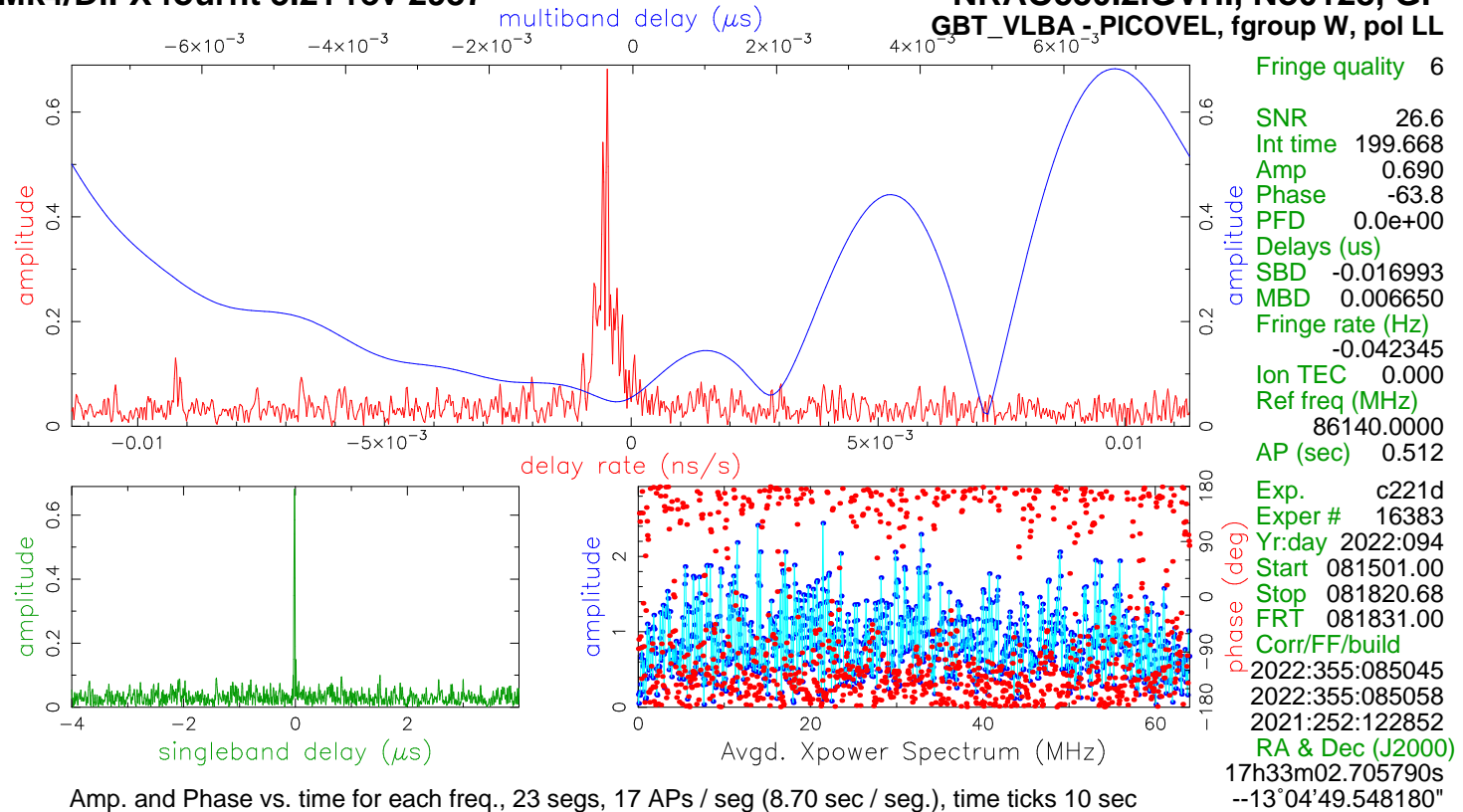
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 081501.00
Stop 081820.68
FRT 081831.00
Corr/FF/build
2022:355:085045
2022:355:085110
2021:252:122852
RA & Dec (J2000)
17h33m02.705790s
-13°04'49.548180"

Amp. and Phase vs. time for each freq., 23 segs, 17 APs / seg (8.70 sec / seg.), time ticks 10 sec

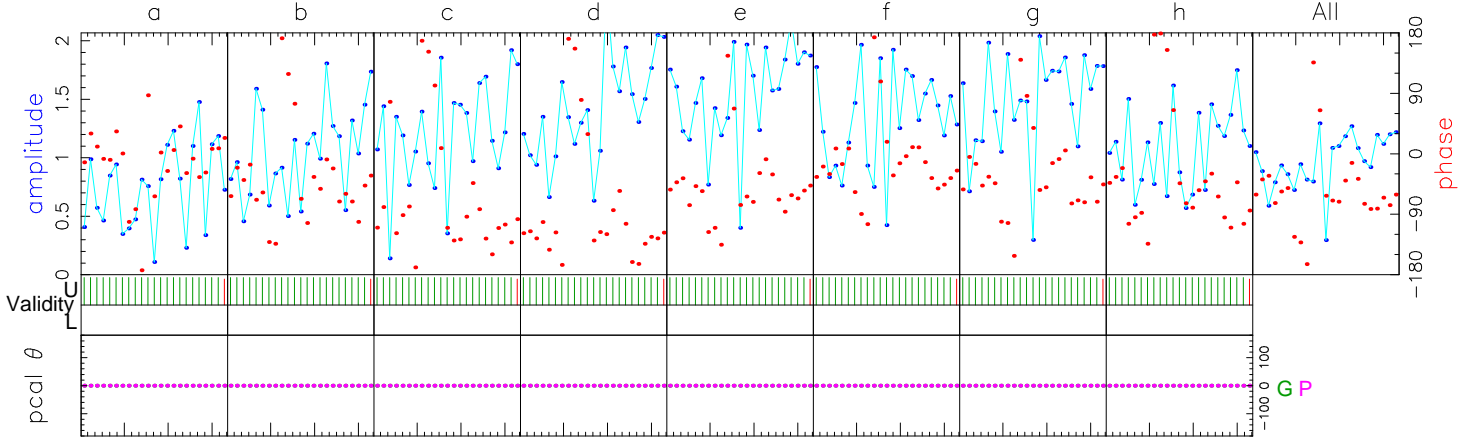


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	15.0	10.2	-1.0	-11.8	-9.1	-11.7	-1.9	26.6	Phase	1.1
	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	Ampl.	0.5
	1023.0	1022.7	1022.9	1022.8	1023.8	1023.5	1024.0	1023.7	Sbd box	1023.3
U/L	390/0	390/0	390/0	390/0	390/0	390/0	390/0	390/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
G:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
G	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)	4.32689135098E+03		Apriori delay (usec)		4.32689821707E+03		Resid mbdelay (usec)		-6.86609E-03	+/- 5.2E-05
Sband delay (usec)	4.32689144257E+03		Apriori clock (usec)		-1.4260387E+01		Resid sbdelay (usec)		-6.77450E-03	+/- 4.2E-04
Phase delay (usec)	4.32689821710E+03		Apriori clockrate (us/s)		2.4220999E-08		Resid phdelay (usec)		3.39848E-08	+/- 1.8E-07
Delay rate (us/s)	-4.94378190467E-01		Apriori rate (us/s)		-4.94378023185E-01		Resid rate (us/s)		-1.67282E-07	+/- 1.5E-09
Total phase (deg)	151.7		Apriori accel (us/s/s)		-2.45638650946E-05		Resid phase (deg)		1.1	+/- 5.5

ph/seg (deg) 66.4 13.3 Theor. Amplitude 0.536 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 73.4 23.2 Search (1024X32) 0.514 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
 ph/frq (deg) 15.1 7.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 10.0 13.7 Inc. seg. avg. 0.867 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 G: az 148.0 el 32.5 pa -24.6 p: az 121.8 el 19.1 pa -45.8 u,v (fr/asec) 2869.127 955.063 nlags: 1024 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c221d/FRINGE/3mm/1234/No0128/Gp..2IGVHI Output file: /Exps/c221d/FRINGE/3mm/1234/No0128/Gp.W.10.2IGVHI simultaneous interpolator



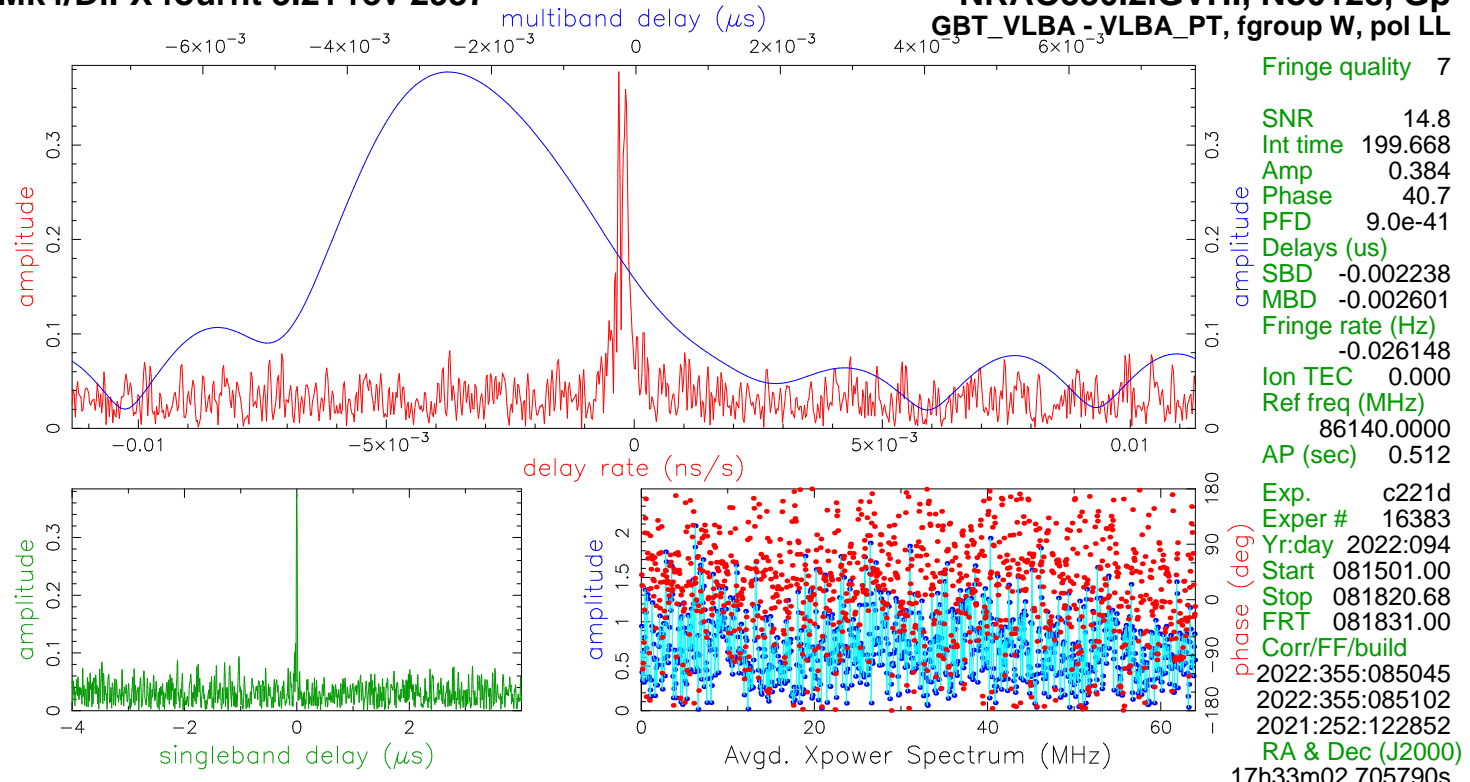
Amp. and Phase vs. time for each freq., 23 segs, 17 APs / seg (8.70 sec / seg.), time ticks 10 sec



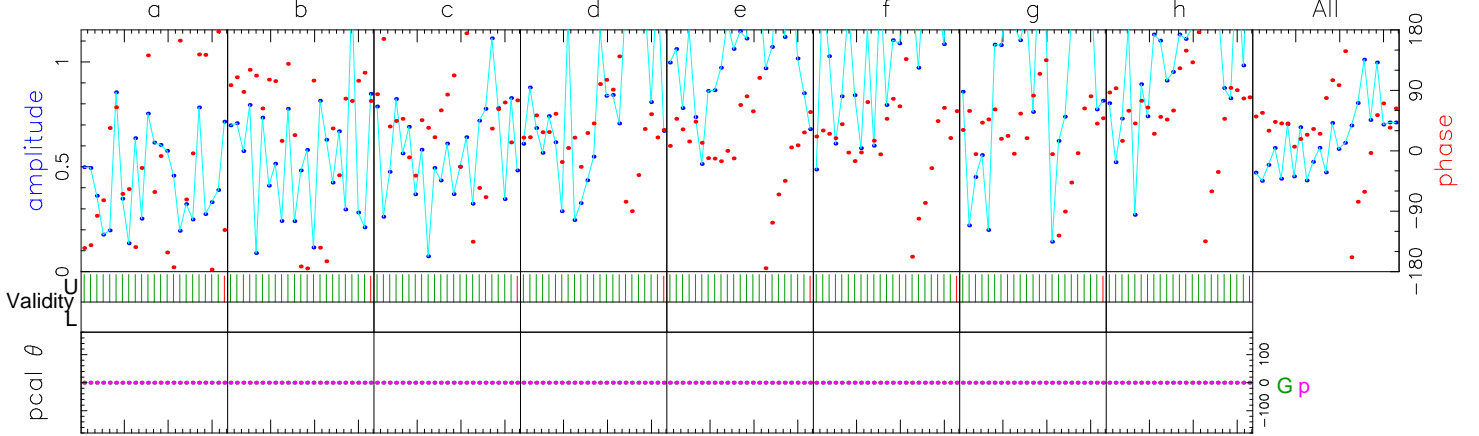
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	0.4	-54.0	-113.0	-126.4	-57.8	-25.1	-47.3	-75.1	Phase	-63.8
	0.6	0.7	0.8	1.0	1.1	1.0	1.0	0.7	Ampl.	0.9
	1018.4	1020.2	1020.3	1021.0	1021.2	1021.0	1020.6	1019.1	Sbd box	1020.6
U/L	390/0	390/0	390/0	390/0	390/0	390/0	390/0	390/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
G:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	3.90675083818E+03	Apriori delay (usec)	3.90677543780E+03	Resid mbdelay (usec)	6.65039E-03	+/-	4.1E-05
Sband delay (usec)	3.90675844480E+03	Apriori clock (usec)	-1.4251785E+01	Resid sbdelay (usec)	-1.69930E-02	+/-	3.2E-04
Phase delay (usec)	3.90677543574E+03	Apriori clockrate (us/s)	4.6200001E-07	Resid phdelay (usec)	-2.05629E-06	+/-	1.4E-07
Delay rate (us/s)	1.45162485597E+00	Apriori rate (us/s)	1.45162534756E+00	Resid rate (us/s)	-4.91586E-07	+/-	1.2E-09
Total phase (deg)	12.4	Apriori accel (us/s/s)	-2.13265388644E-05	Resid phase (deg)	-63.8	+/-	4.3

ph/seg (deg)	54.2	RMS	10.3	Theor.	0.690 +/- 0.026	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	53.0	Search (1024X32)	0.667	Amplitude		Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
ph/frq (deg)	45.6	Interp.	0.000	Interp.		Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	37.1	Inc. seg. avg.	0.956	Inc. seg. avg.		Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	0.856	Inc. frq. avg.		Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	



Amp. and Phase vs. time for each freq., 23 segs, 17 APs / seg (8.70 sec / seg.), time ticks 10 sec



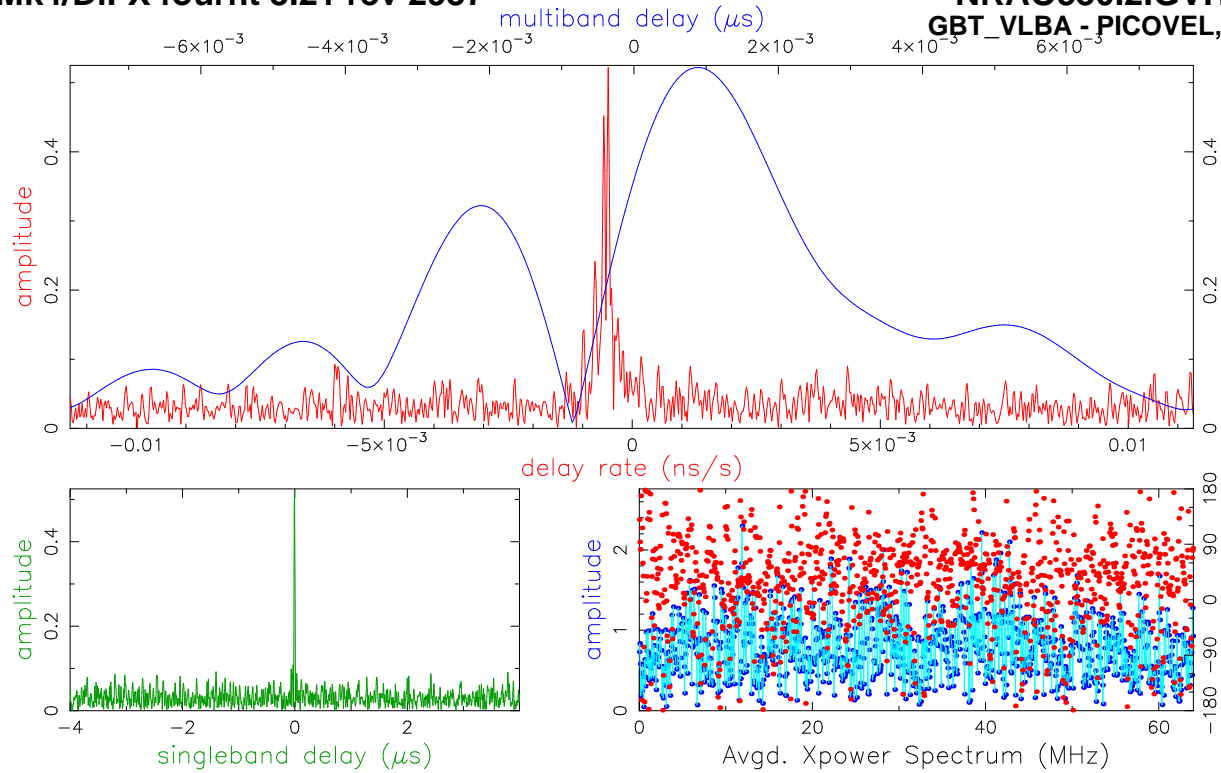
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-144.9	103.2	36.3	24.6	16.8	25.7	40.9	74.1	Phase	40.7
	0.1	0.3	0.3	0.5	0.6	0.6	0.6	0.5	Ampl.	0.4
	1848.8	1024.4	1024.0	1023.9	1024.7	1024.5	1024.5	1025.1	Sbd box	1024.4
U/L	390/0	390/0	390/0	390/0	390/0	390/0	390/0	390/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
G:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	4.32689561646E+03	Apriori delay (usec)	4.32689821707E+03	Resid mbdelay (usec)	-2.60061E-03	+/-	7.3E-05
Sband delay (usec)	4.32689597932E+03	Apriori clock (usec)	-1.4260387E+01	Resid sbdelay (usec)	-2.23775E-03	+/-	5.8E-04
Phase delay (usec)	4.32689821838E+03	Apriori clockrate (us/s)	2.4220999E-08	Resid phdelay (usec)	1.31370E-06	+/-	2.5E-07
Delay rate (us/s)	-4.94378326741E-01	Apriori rate (us/s)	-4.94378023185E-01	Resid rate (us/s)	-3.03556E-07	+/-	2.2E-09
Total phase (deg)	191.4	Apriori accel (us/s/s)	-2.45638650946E-05	Resid phase (deg)	40.7	+/-	7.7

ph/seg (deg)	57.7	RMS	18.5	Theor.	Amplitude	0.384 +/- 0.026	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	77.0		32.3	Search (1024X32)	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-4.000 4.000	
ph/frq (deg)	78.0		10.9	Inc. seg. avg.	Inc. frq. avg.	0.603	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	48.2		19.0	Inc. frq. avg.	Inc. frq. avg.	0.449	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
							Data rate (Mb/s):	2048	nlags: 1024 t_cohere infinite	ion window (TEC)	0.00 0.00

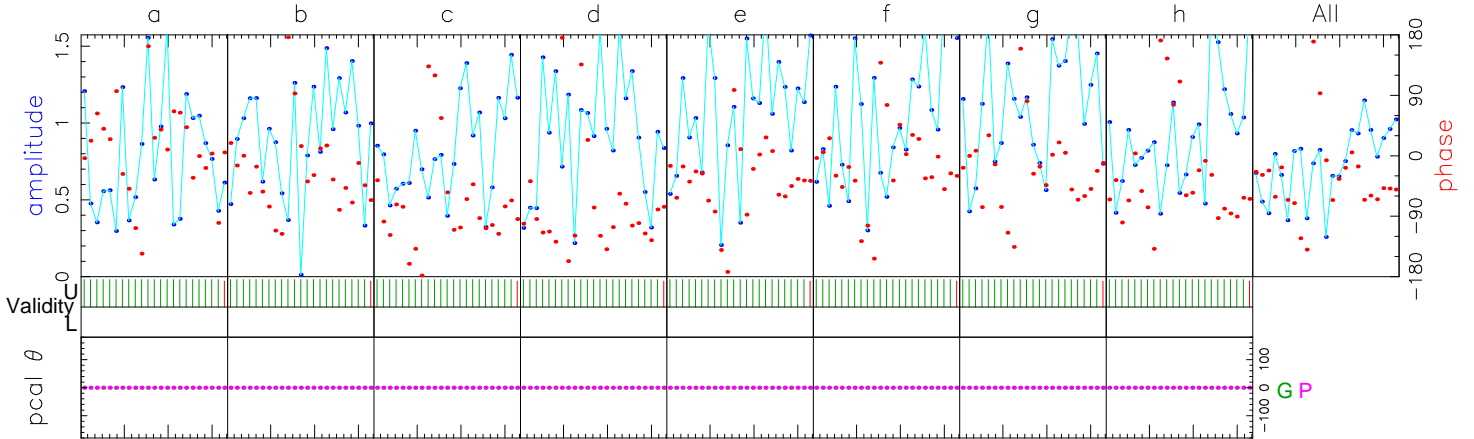
G: az 148.0 el 32.5 pa -24.6 p: az 121.8 el 19.1 pa -45.8 u,v (fr/asec) 2869.127 955.063 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/FRINGE/3mm/1234/No0128/Gp..2IGVHI Output file: /Exps/c221d/FRINGE/3mm/1234/No0128/Gp.W.5.2IGVHI



Fringe quality 8
SNR 20.3
Int time 199.668
Amp 0.525
Phase -47.0
PFD 0.0e+00
Delays (us)
SBD -0.006861
MBD 0.000912
Fringe rate (Hz)
-0.042578
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c221d
Yr:day 16383
Start 081501.00
Stop 081820.68
FRT 081831.00
Corr/FF/build
2022:355:085045
2022:355:085104
2021:252:122852
RA & Dec (J2000)
17h33m02.705790s
-13°04'49.548180"

Amp. and Phase vs. time for each freq., 23 segs, 17 APs / seg (8.70 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
	8.1	-36.6	-93.3	-105.5	-35.8	-21.7	-29.2	-63.3	Phase	-47.0
	0.4	0.6	0.5	0.7	0.8	0.7	0.7	0.6	Ampl.	0.6
	1020.9	1022.8	1022.6	1023.6	1023.8	1023.4	1023.3	1021.7	Sbd box	1023.2
U/L	390/0	390/0	390/0	390/0	390/0	390/0	390/0	390/0	APs used	
G	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
G:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
G:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
G	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
G	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.90677635009E+03		Apriori delay (usec)		3.90677543780E+03		Resid mbdelay (usec)		9.12295E-04	+/- 5.4E-05
Sband delay (usec)	3.90676857655E+03		Apriori clock (usec)		-1.4251785E+01		Resid sbdelay (usec)		-6.86125E-03	+/- 4.3E-04
Phase delay (usec)	3.90677543628E+03		Apriori clockrate (us/s)		4.6200001E-07		Resid phdelay (usec)		-1.51704E-06	+/- 1.8E-07
Delay rate (us/s)	1.45162485328E+00		Apriori rate (us/s)		1.45162534756E+00		Resid rate (us/s)		-4.94283E-07	+/- 1.6E-09
Total phase (deg)	29.2		Apriori accel (us/s/s)		-2.13265388644E-05		Resid phase (deg)		-47.0	+/- 5.7

ph/seg (deg) 53.4 13.6 Search (1024X32) 0.501 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 59.2 23.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -4.000 4.000
ph/frq (deg) 41.0 8.0 Inc. seg. avg. 0.718 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 26.2 14.0 Inc. frq. avg. 0.618 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 1024 t_cohere infinite dr window (ns/s) -0.011 0.011
G: az 148.0 el 32.5 pa -24.6 P: az 232.5 el 21.8 pa 40.6 u,v (fr/asec) -8565.764 531.034 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221d/FRINGE/3mm/1234/No0128/GP..2IGVHI Output file: /Exps/c221d/FRINGE/3mm/1234/No0128/GP.W.9.2IGVHI