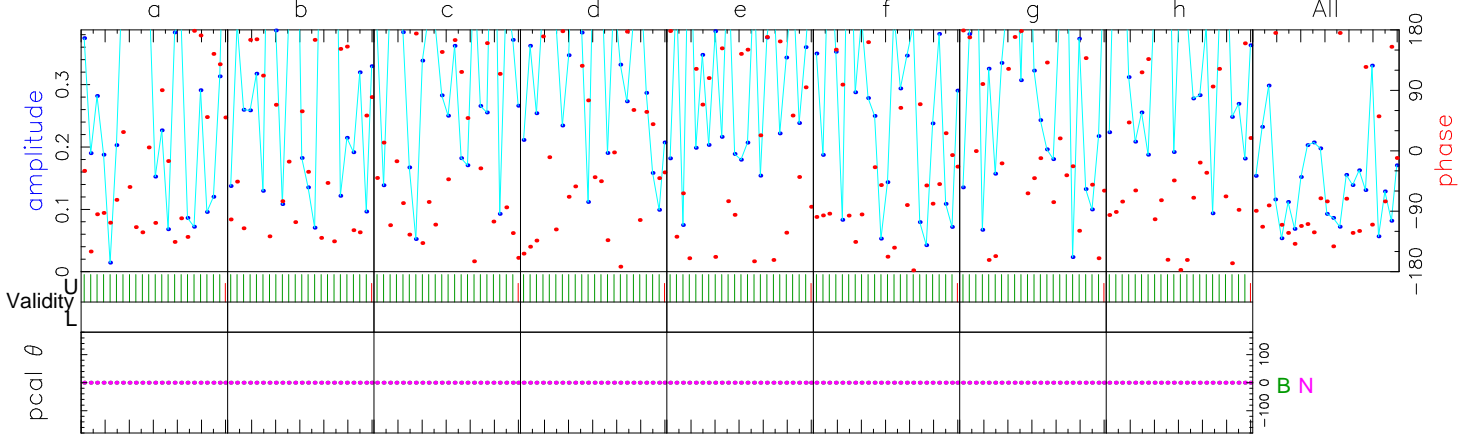


Fringe quality 0

SNR 5.7
Int time 359.897
Amp 0.129
Phase -107.7
PFD 9.8e-01
Delays (us)
SBD 0.495854
MBD -0.001431
Fringe rate (Hz)
-0.618021
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145310
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

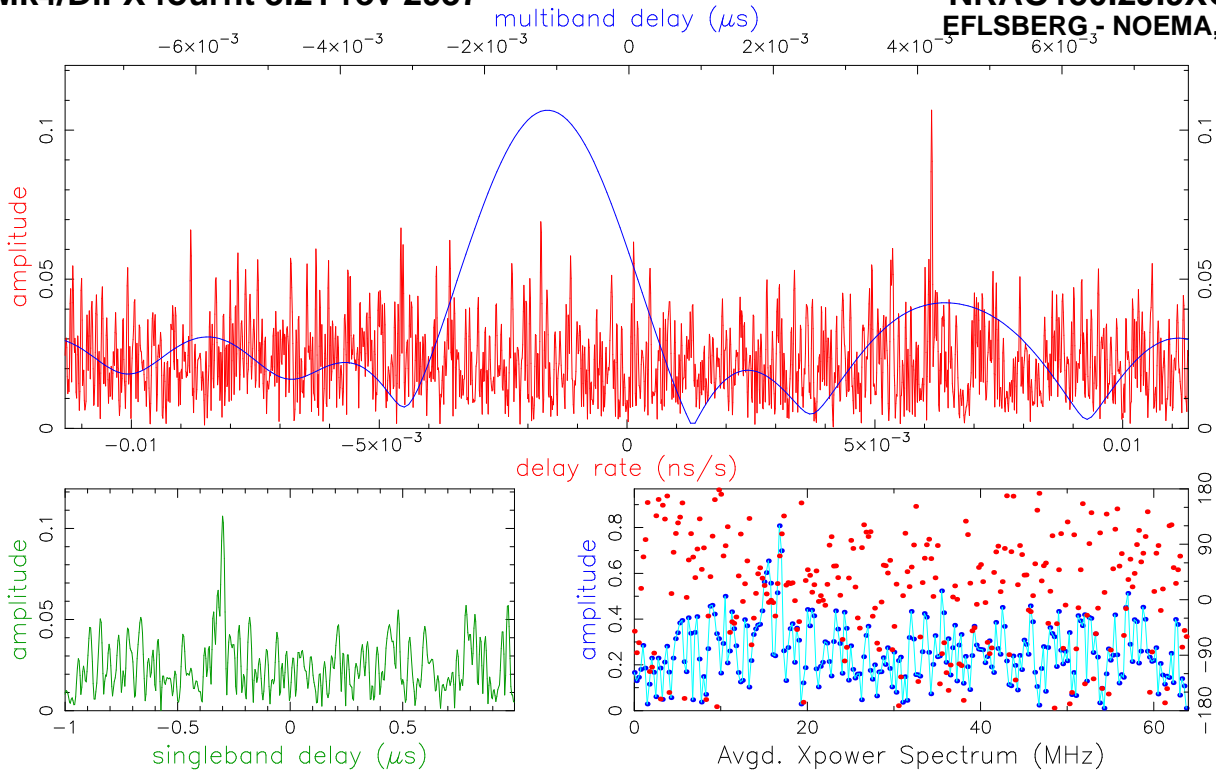


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-82.1	-118.5	-106.6	-80.3	-168.9	-103.3	-80.3	-101.2	Phase	-107.7
	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.2	Ampl.	0.1
	22.5	394.6	253.1	448.4	455.9	3.4	57.1	36.7	Sbd box	383.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.52236778735E+02		Apriori delay (usec)		3.51738209932E+02		Resid mbdelay (usec)		-1.43120E-03	+/- 1.9E-04
Sband delay (usec)	3.52234064182E+02		Apriori clock (usec)		-1.6675282E+01		Resid sbdelay (usec)		4.95854E-01	+/- 1.5E-03
Phase delay (usec)	3.51738206458E+02		Apriori clockrate (us/s)		1.2800000E-07		Resid phdelay (usec)		-3.47390E-06	+/- 6.5E-07
Delay rate (us/s)	4.95080793085E-02		Apriori rate (us/s)		4.95152539171E-02		Resid rate (us/s)		-7.17461E-06	+/- 3.1E-09
Total phase (deg)	37.5		Apriori accel (us/s/s)		4.11028276330E-06		Resid phase (deg)		-107.7	+/- 20.3

ph/seg (deg) RMS Theor. Amplitude 0.129 +/- 0.023 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 58.7 48.6 Search (2048X32) 0.108 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 74.6 84.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 31.8 28.7 Inc. seg. avg. 0.129 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 32.9 50.0 Inc. frq. avg. 0.127 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

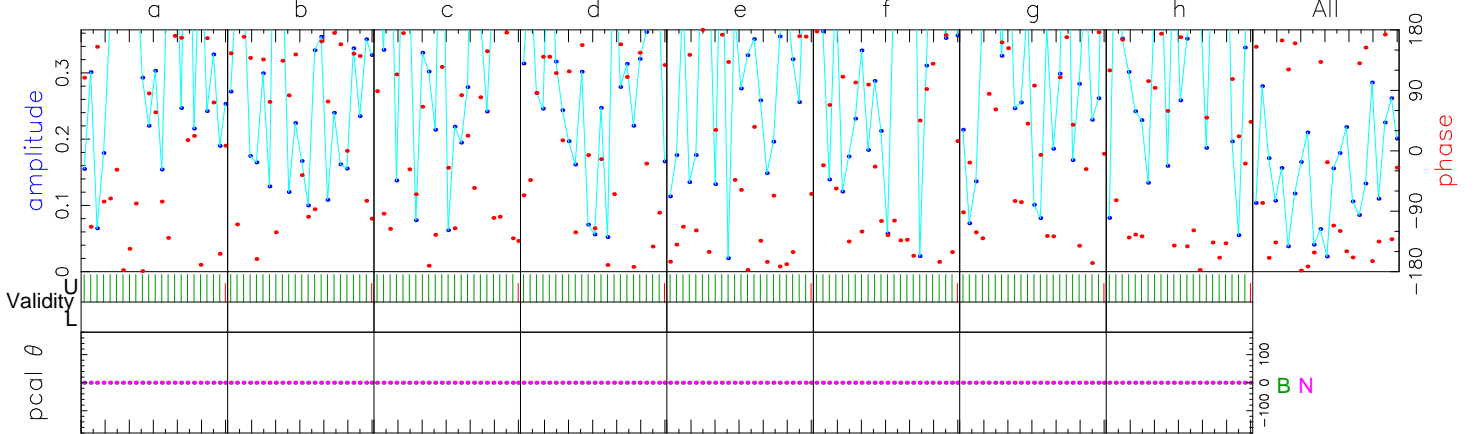
B: az 290.6 el 59.2 pa 71.4 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -446.406 787.994 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/BN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/BN.W.106.2J19XC



Fringe quality 0
 SNR 5.6
 Int time 359.897
 Amp 0.122
 Phase -156.4
 PFD 1.0e+00
 Delays (us)
 SBD -0.299610
 MBD -0.001121
 Fringe rate (Hz)
 0.530092
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c221d
 Exper # 16383
 Yr:day 2022:094
 Start 180000.00
 Stop 180559.94
 FRT 180300.00
 Corr/FF/build
 2023:010:110447
 2023:010:145314
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'59.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

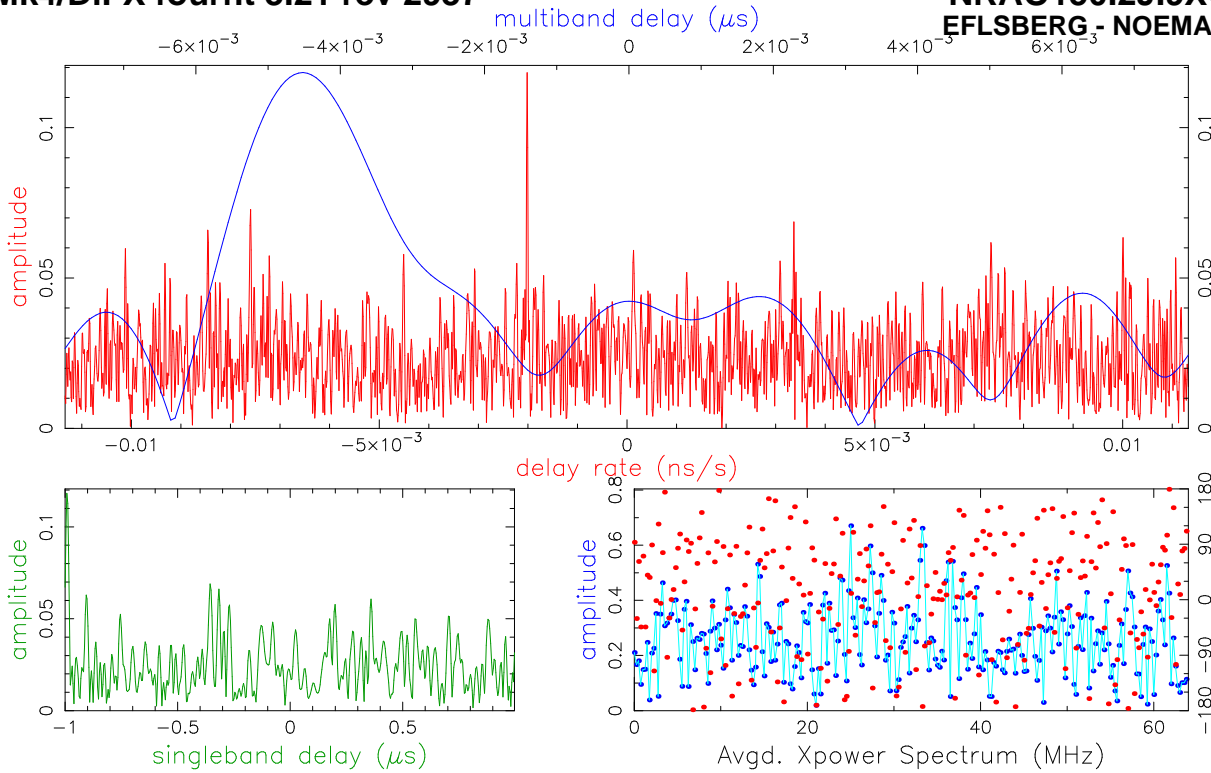


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-144.3	-173.9	-140.1	-173.0	-150.4	-152.4	168.4	-153.6	Phase	-156.4
	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	Ampl.	0.1
	199.6	86.2	478.8	105.5	180.2	95.0	337.3	177.1	Sbd box	180.3
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	3.51440214363E+02	Apriori delay (usec)	3.51738209932E+02	Resid mbdelay (usec)	-1.12057E-03	+/-	1.9E-04
Sband delay (usec)	3.51438600182E+02	Apriori clock (usec)	-1.6675282E+01	Resid sbdelay (usec)	-2.99610E-01	+/-	1.5E-03
Phase delay (usec)	3.51738204887E+02	Apriori clockrate (us/s)	1.2800000E-07	Resid phdelay (usec)	-5.04449E-06	+/-	6.6E-07
Delay rate (us/s)	4.95214077591E-02	Apriori rate (us/s)	4.95152539171E-02	Resid rate (us/s)	6.15384E-06	+/-	3.2E-09
Total phase (deg)	-11.2	Apriori accel (us/s/s)	4.11028276330E-06	Resid phase (deg)	-156.4	+/-	20.6

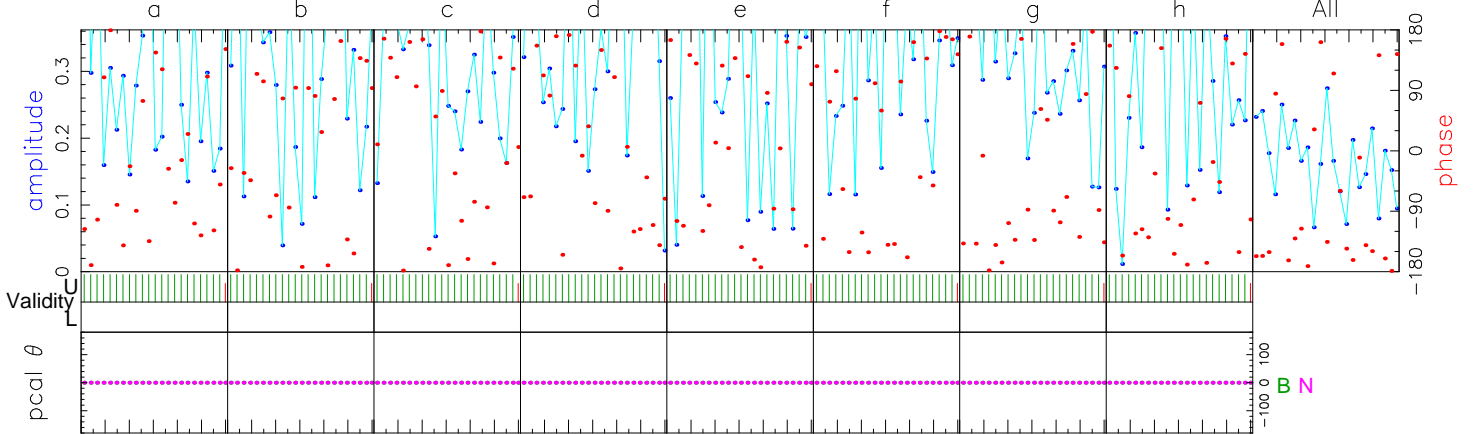
ph/seg (deg)	RMS 55.5	Theor. 49.3	Amplitude Search (2048X32)	0.122 +/- 0.022	0.104	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	79.3	86.0	Interp.	0.000	0.104	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	19.5	29.1	Inc. seg. avg.	0.123	0.123	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	42.6	50.7	Inc. frq. avg.	0.110	0.110	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 290.6 el 59.2 pa 71.4 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -446.406 787.994 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/BN..2JI9XC Output file: /Exps/c221d/v1/3mm/3000/No0237/BN.W.142.2JI9XC



Fringe quality 0
 SNR 6.2
 Int time 359.897
 Amp 0.121
 Phase -161.9
 PFD 1.6e-01
 Delays (us)
 SBD -0.991139
 MBD -0.004492
 Fringe rate (Hz)
 -0.174082
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c221d
 Exper # 16383
 Yr:day 2022:094
 Start 180000.00
 Stop 180559.94
 FRT 180300.00
 Corr/FF/build
 2023:010:110447
 2023:010:145318
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

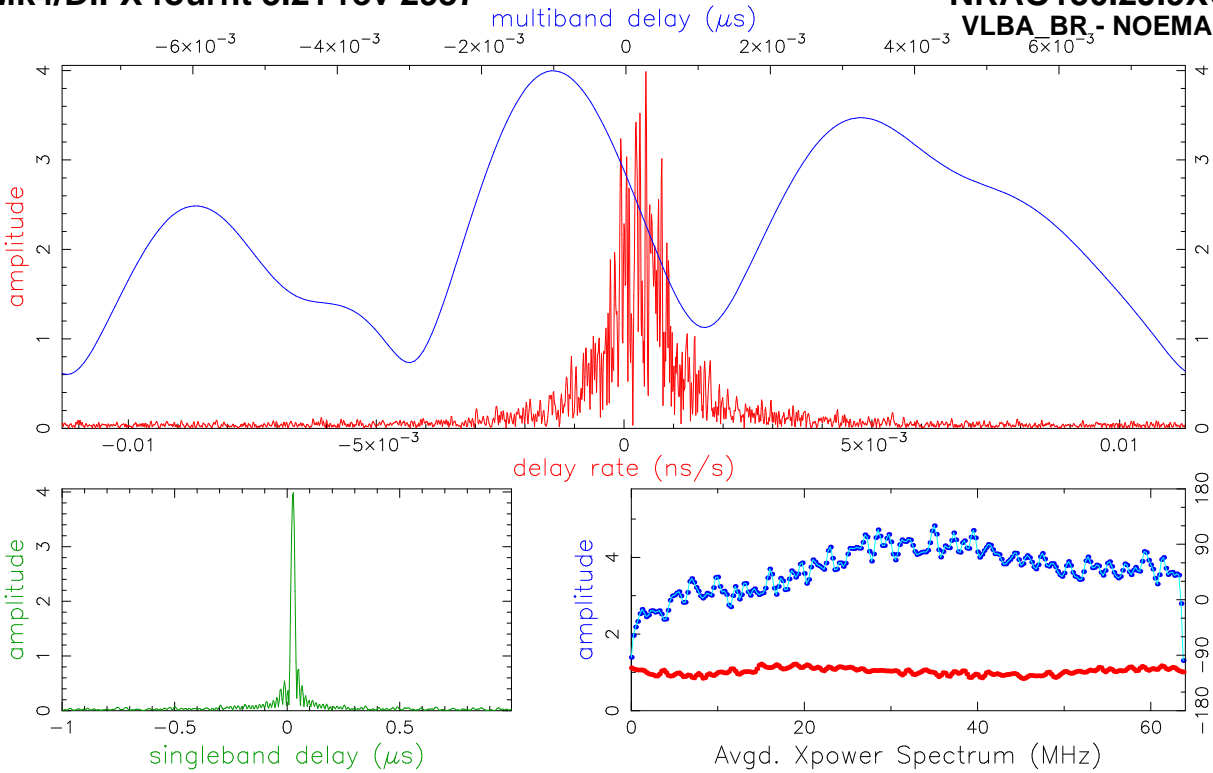


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-113.0	144.0	161.2	-137.2	169.2	-174.2	-150.5	-148.8	Phase	-161.9
	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	Ampl.	0.1
	3.0	54.6	303.3	66.3	244.2	402.5	449.1	2.1	Sbd box	3.3
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	3.50749343140E+02	Apriori delay (usec)	3.51738209932E+02	Resid mbdelay (usec)	-4.49179E-03	+/-	1.8E-04
Sband delay (usec)	3.50747070932E+02	Apriori clock (usec)	-1.6675282E+01	Resid sbdelay (usec)	-9.91139E-01	+/-	1.4E-03
Phase delay (usec)	3.51738204711E+02	Apriori clockrate (us/s)	1.2800000E-07	Resid phdelay (usec)	-5.22024E-06	+/-	6.0E-07
Delay rate (us/s)	4.95132329959E-02	Apriori rate (us/s)	4.95152539171E-02	Resid rate (us/s)	-2.02092E-06	+/-	2.9E-09
Total phase (deg)	-16.6	Apriori accel (us/s/s)	4.11028276330E-06	Resid phase (deg)	-161.9	+/-	18.5

ph/seg (deg)	64.4	RMS	44.5	Theor.	45.8	Amplitude	0.121 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	62.7	Search (2048X32)	0.109	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	0.109	sb window (us)	-1.000 1.000		
ph/frq (deg)	37.8	Inc. seg. avg.	0.131	Inc. frq. avg.	0.126	Bits/sample: 2x2	1.2800000E-07	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	30.9	Inc. frq. avg.	0.126	Sample rate(MISamp/s): 128	2048	Data rate(Mb/s): 2048	4.95152539171E-02	nlags: 256	t_cohere infinite	dr window (ns/s)	-0.011 0.011

B: az 290.6 el 59.2 pa 71.4 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -446.406 787.994 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/BN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/BN.W.169.2J19XC

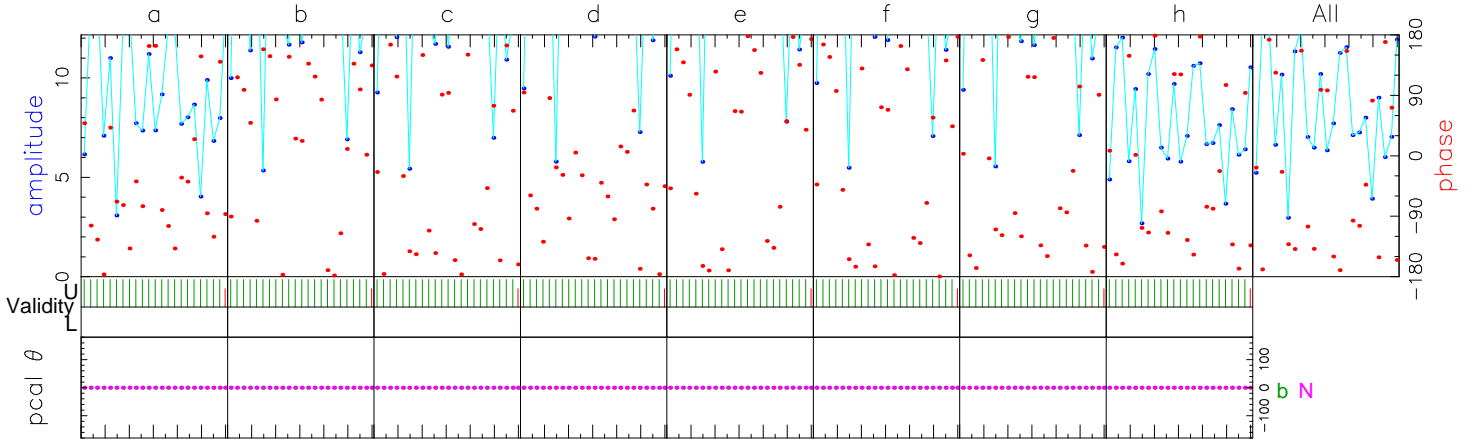


Fringe quality 1

SNR 210.3
Int time 359.635
Amp 4.057
Phase -169.2
PFD 0.0e+00
Delays (us)
SBD 0.025652
MBD -0.001100
Fringe rate (Hz)
0.037774
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145328
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

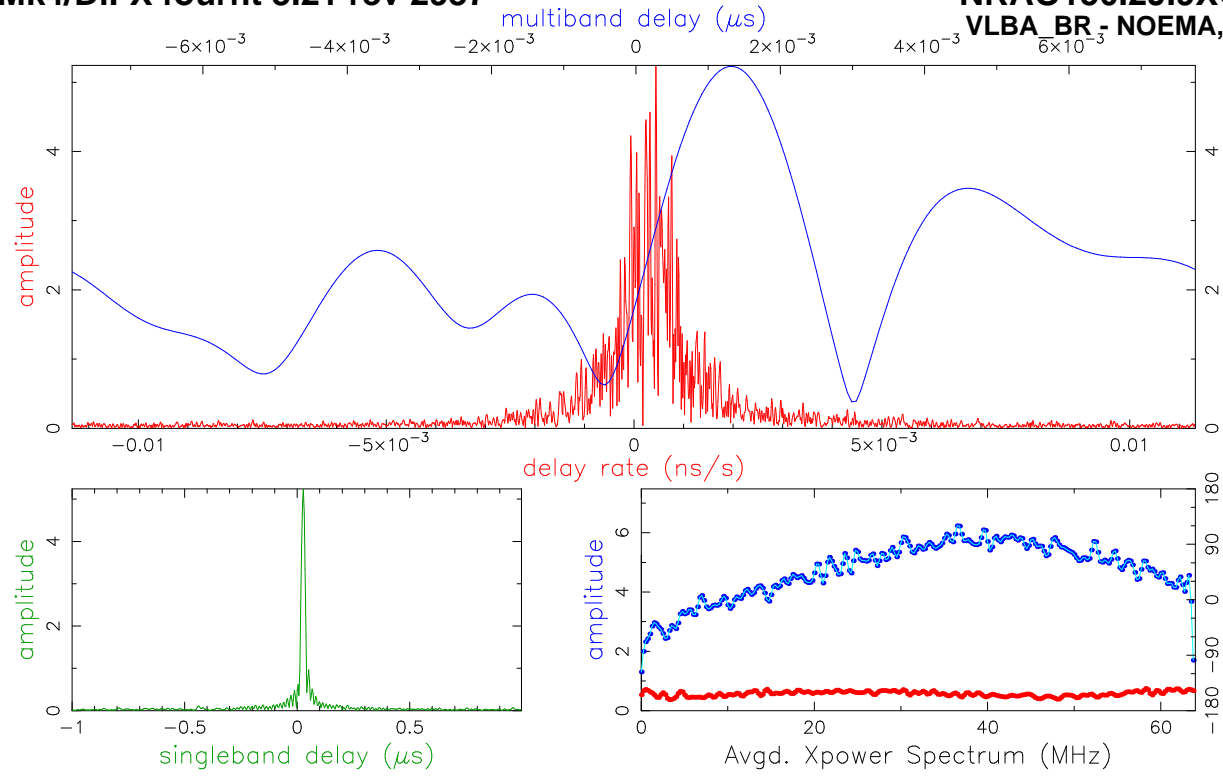


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-103.8	118.2	-175.5	-59.4	158.3	164.4	-149.6	-146.2	Phase	-169.2
	4.4	7.3	7.2	7.6	7.5	7.4	7.4	3.7	Ampl.	6.6
	261.7	263.5	264.2	263.9	264.0	263.9	263.2	260.8	Sbd box	263.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-3.36814789377E+03	Apriori delay (usec)	-3.36817804406E+03	Resid mbdelay (usec)	-1.09971E-03	+/-	5.2E-06
Sband delay (usec)	-3.36815239206E+03	Apriori clock (usec)	1.1490395E+01	Resid sbdelay (usec)	2.56520E-02	+/-	4.1E-05
Phase delay (usec)	-3.36817804951E+03	Apriori clockrate (us/s)	-3.5377999E-07	Resid phdelay (usec)	-5.45495E-06	+/-	1.8E-08
Delay rate (us/s)	1.16196979756E+00	Apriori rate (us/s)	1.16196935904E+00	Resid rate (us/s)	4.38522E-07	+/-	8.5E-11
Total phase (deg)	-66.6	Apriori accel (us/s/s)	2.16467089194E-05	Resid phase (deg)	-169.2	+/-	0.5

	RMS	Theor.	Amplitude	4.057 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	75.4	1.3	Search (2048X32)	3.845	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	128.5	2.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	63.6	0.8	Inc. seg. avg.	8.443	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	71.4	1.3	Inc. frq. avg.	6.558	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

b: az 56.0 el 42.4 pa -61.7 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -10552.052 2413.095 simultaneous interpolator

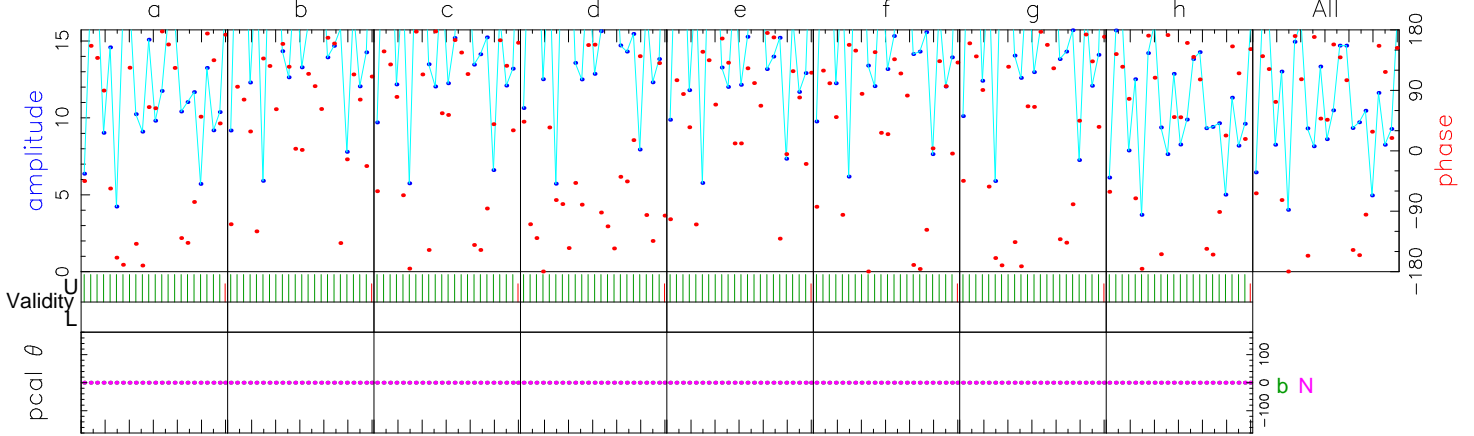


Fringe quality 1

SNR 271.7
Int time 359.635
Amp 5.243
Phase 139.7
PFD 0.0e+00
Delays (us)
SBD 0.026710
MBD 0.001299
Fringe rate (Hz)
0.037793
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

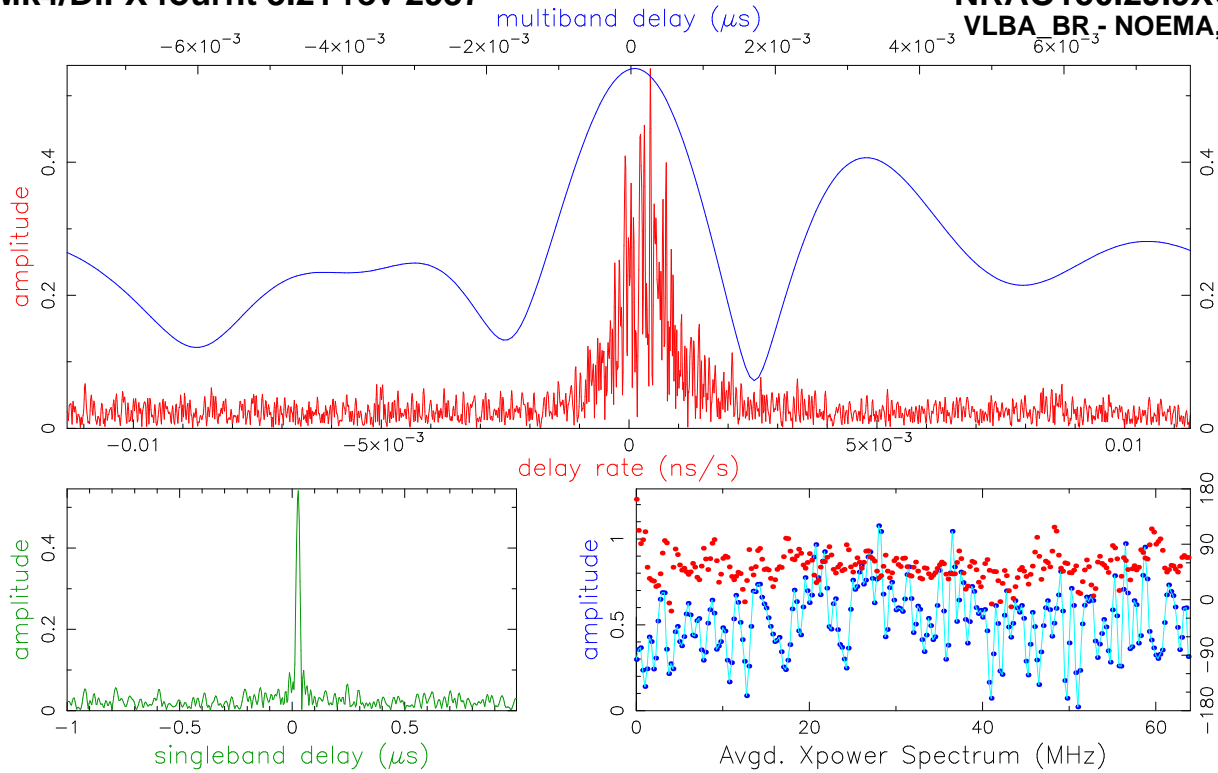
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145331
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	157.3	95.8	147.5	-111.2	102.9	117.3	158.1	140.5	Phase	139.7
	5.8	7.9	7.6	7.9	7.4	7.7	7.9	5.0	Ampl.	7.2
	262.3	264.4	264.7	264.4	264.8	264.4	263.7	261.9	Sbd box	263.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.36814549464E+03		Apriori delay (usec)		-3.36817804406E+03		Resid mbdelay (usec)		1.29941E-03	+/- 4.0E-06
Sband delay (usec)	-3.36815133431E+03		Apriori clock (usec)		1.1490395E+01		Resid sbdelay (usec)		2.67098E-02	+/- 3.2E-05
Phase delay (usec)	-3.36817803955E+03		Apriori clockrate (us/s)		-3.5377999E-07		Resid phdelay (usec)		4.50388E-06	+/- 1.4E-08
Delay rate (us/s)	1.16196979778E+00		Apriori rate (us/s)		1.16196935904E+00		Resid rate (us/s)		4.38742E-07	+/- 6.5E-11
Total phase (deg)			Apriori accel (us/s/s)		2.16467089194E-05		Resid phase (deg)		139.7	+/- 0.4

ph/seg (deg) 76.2 1.0 Theor. Amplitude 5.243 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 130.6 1.8 Search (2048X32) 4.947 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 52.3 0.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 41.7 1.0 Inc. seg. avg. 11.023 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 b: az 56.0 el 42.4 pa -61.7 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -10552.052 2413.095 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/bN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/bN.W.212.2J19XC simultaneous interpolator

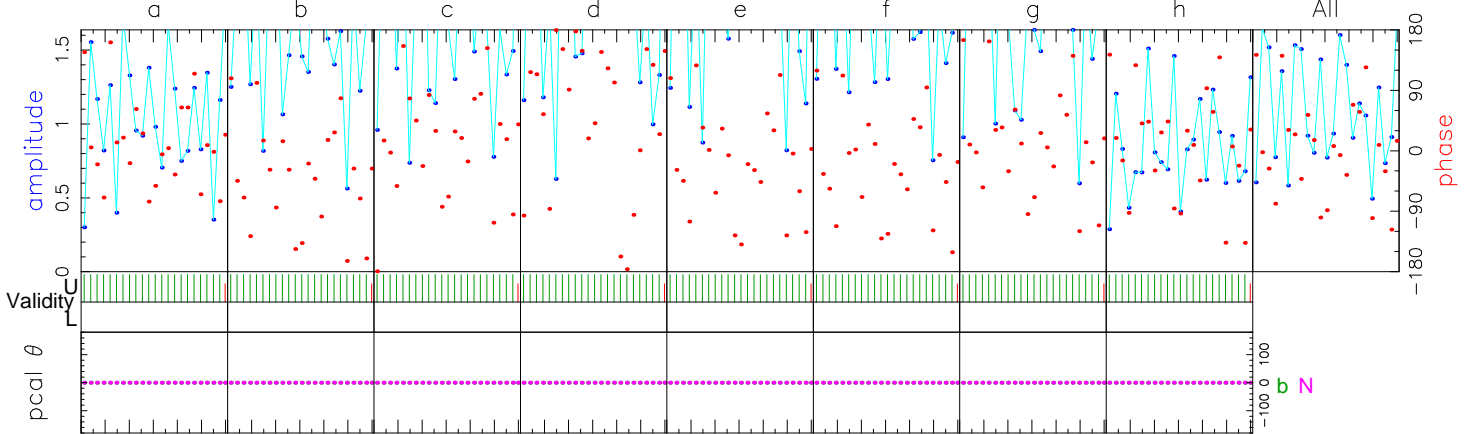


Fringe quality 5

SNR 28.3
Int time 359.635
Amp 0.546
Phase -4.6
PFD 0.0e+00
Delays (us)
SBD 0.026134
MBD 0.000011
Fringe rate (Hz)
0.037693
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145335
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

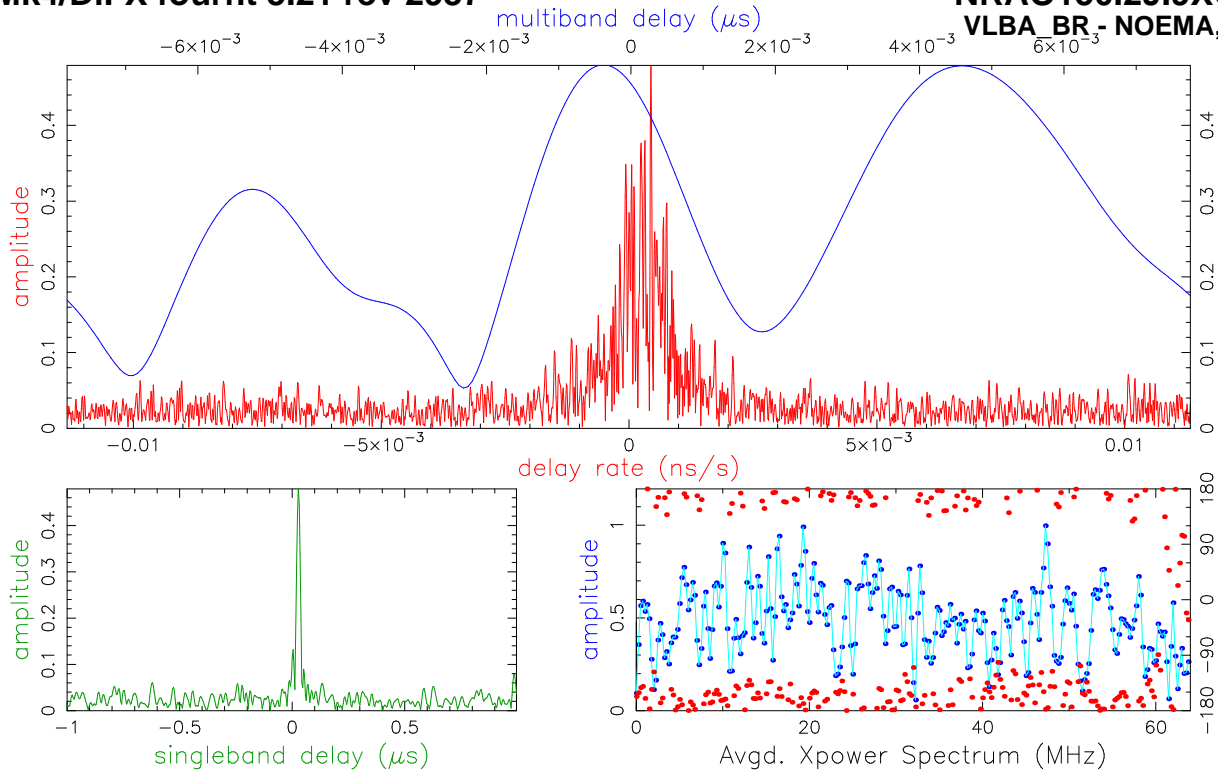


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-1.6	-47.8	13.9	128.0	-24.2	-28.0	3.6	13.1	Phase	-4.6
	0.6	0.7	0.8	0.9	1.0	0.9	0.9	0.4	Ampl.	0.8
	262.4	264.0	264.9	264.0	264.0	264.0	263.4	260.7	Sbd box	263.7
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -3.36814678333E+03 Apriori delay (usec) -3.36817804406E+03 Resid mbdelay (usec) 1.07244E-05 +/- 3.8E-05
 Sband delay (usec) -3.36815191031E+03 Apriori clock (usec) 1.1490395E+01 Resid sbdelay (usec) 2.61337E-02 +/- 3.0E-04
 Phase delay (usec) -3.36817804420E+03 Apriori clockrate (us/s) -3.5377999E-07 Resid phdelay (usec) -1.46830E-07 +/- 1.3E-07
 Delay rate (us/s) 1.16196979662E+00 Apriori rate (us/s) 1.16196935904E+00 Resid rate (us/s) 4.37577E-07 +/- 6.3E-10
 Total phase (deg) -262.0 Apriori accel (us/s/s) 2.16467089194E-05 Resid phase (deg) -4.6 +/- 4.1

RMS Theor. Amplitude 0.546 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 73.4 9.7 Search (2048X32) 0.515 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 122.7 17.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 59.3 5.7 Inc. seg. avg. 1.089 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 56.4 10.0 Inc. frq. avg. 0.780 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 56.0 el 42.4 pa -61.7 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -10552.052 2413.095 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/bN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/bN.W.238.2J19XC

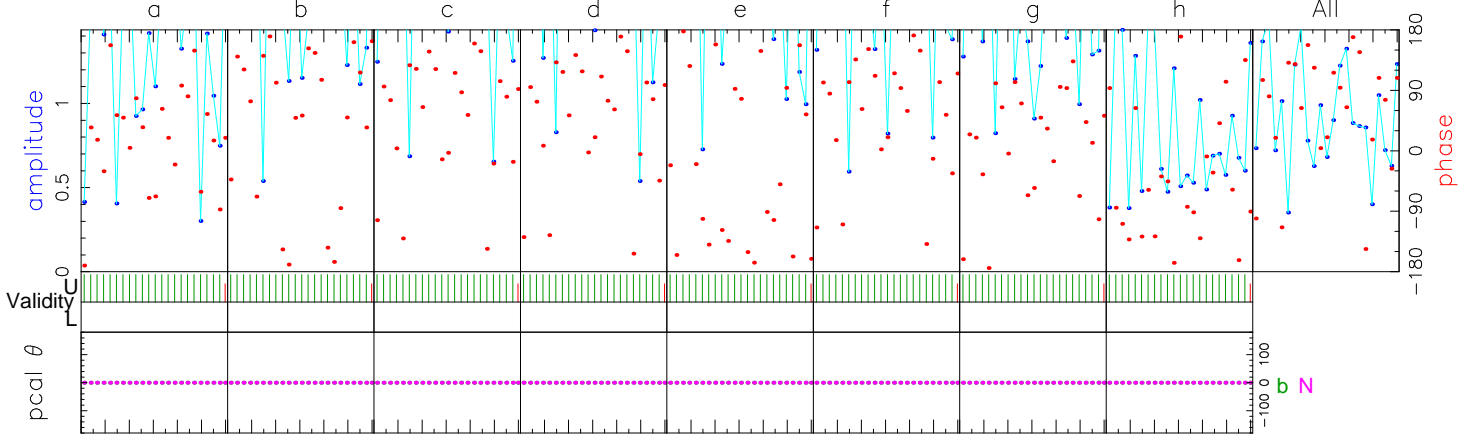


Fringe quality 5

SNR 24.8
Int time 359.635
Amp 0.479
Phase 97.8
PFD 0.0e+00
Delays (us)
SBD 0.027684
MBD 0.004580
Fringe rate (Hz)
0.037878
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

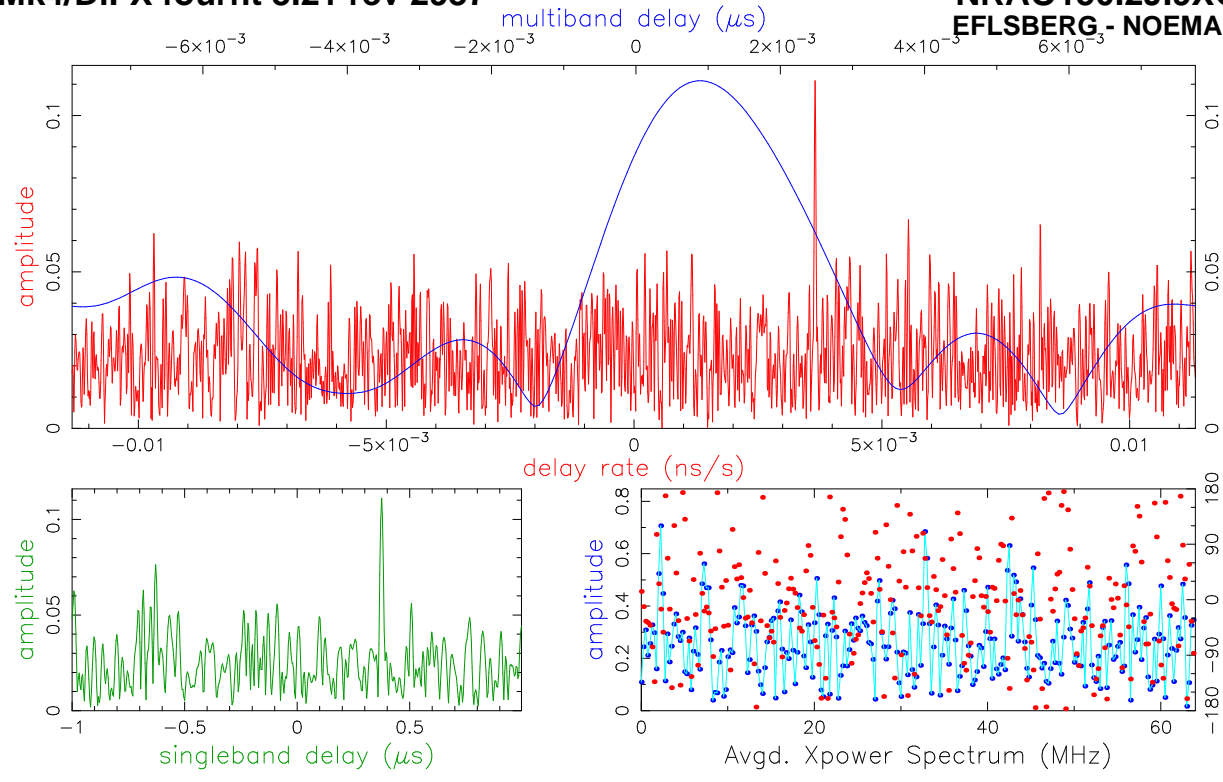
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145338
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



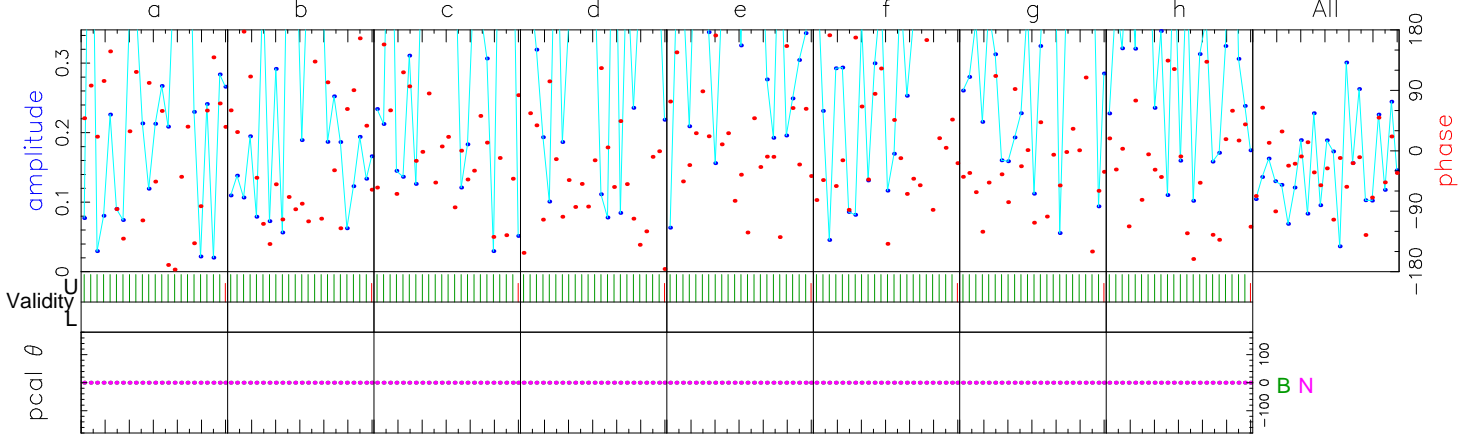
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	31.7	139.0	93.4	93.7	-166.6	96.3	36.9	-96.9	Phase	97.8
	0.7	0.8	1.0	1.0	0.9	1.0	0.8	0.4	Ampl.	0.8
	262.2	264.0	264.2	264.2	264.3	264.1	263.5	261.7	Sbd box	264.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
b	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.36815783936E+03		Apriori delay (usec)		-3.36817804406E+03		Resid mbdelay (usec)		4.57969E-03	+/- 4.4E-05
Sband delay (usec)	-3.36815035981E+03		Apriori clock (usec)		1.1490395E+01		Resid sbdelay (usec)		2.76843E-02	+/- 3.5E-04
Phase delay (usec)	-3.36817804090E+03		Apriori clockrate (us/s)		-3.5377999E-07		Resid phdelay (usec)		3.15294E-06	+/- 1.5E-07
Delay rate (us/s)	1.16196979876E+00		Apriori rate (us/s)		1.16196935904E+00		Resid rate (us/s)		4.39722E-07	+/- 7.2E-10
Total phase (deg)			Apriori accel (us/s/s)		2.16467089194E-05		Resid phase (deg)		97.8	+/- 4.6

ph/seg (deg) 73.4 11.1 Search (2048X32) 0.469 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 115.3 19.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 87.8 6.5 Inc. seg. avg. 0.916 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 82.6 11.4 Inc. frq. avg. 0.817 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 56.0 el 42.4 pa -61.7 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -10552.052 2413.095 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/bN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/bN.W.261.2J19XC



Fringe quality 0
 SNR 5.8
 Int time 359.897
 Amp 0.116
 Phase -21.8
 PFD 8.7e-01
 Delays (us)
 SBD 0.375105
 MBD 0.000889
 Fringe rate (Hz)
 0.315140
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c221d
 Exper # 16383
 Yr:day 2022:094
 Start 180000.00
 Stop 180559.94
 FRT 180300.00
 Corr/FF/build
 2023:010:110447
 2023:010:145306
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



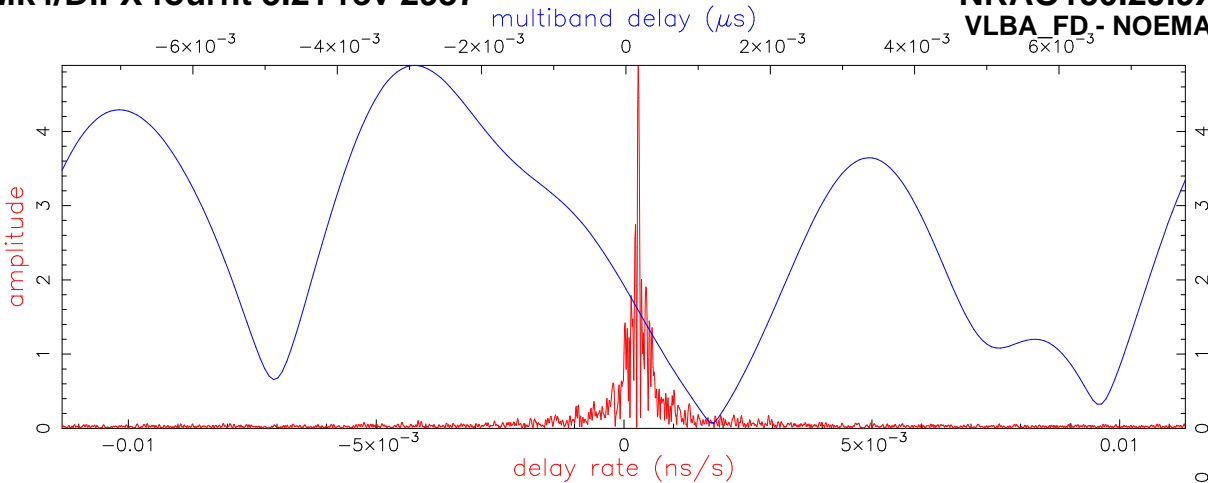
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	71.7	-89.9	-4.3	-54.2	-5.0	-20.5	-21.9	-13.4	Phase	-21.8
	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	Ampl.	0.1
	1.5	111.0	352.8	353.0	28.7	341.9	155.5	444.0	Sbd box	353.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	3.52114099126E+02	Apriori delay (usec)	3.51738209932E+02	Resid mbdelay (usec)	8.89195E-04	+/-	1.9E-04
Sband delay (usec)	3.52113314682E+02	Apriori clock (usec)	-1.6675282E+01	Resid sbdelay (usec)	3.75105E-01	+/-	1.5E-03
Phase delay (usec)	3.51738209228E+02	Apriori clockrate (us/s)	1.2800000E-07	Resid phdelay (usec)	-7.03320E-07	+/-	6.4E-07
Delay rate (us/s)	4.95189123779E-02	Apriori rate (us/s)	4.95152539171E-02	Resid rate (us/s)	3.65846E-06	+/-	3.1E-09
Total phase (deg)	123.5	Apriori accel (us/s/s)	4.11028276330E-06	Resid phase (deg)	-21.8	+/-	19.9

ph/seg (deg)	46.3	RMS	46.3	Theor.	47.7	Amplitude	0.116 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	69.5		69.5		83.2	Search (2048X32)	0.107	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	50.2		50.2		28.1	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	38.6		38.6		49.1	Inc. seg. avg.	0.118	Sample rate(MISamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Inc. frq. avg.	0.126	Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 290.6 el 59.2 pa 71.4 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -446.406 787.994 simultaneous interpolator

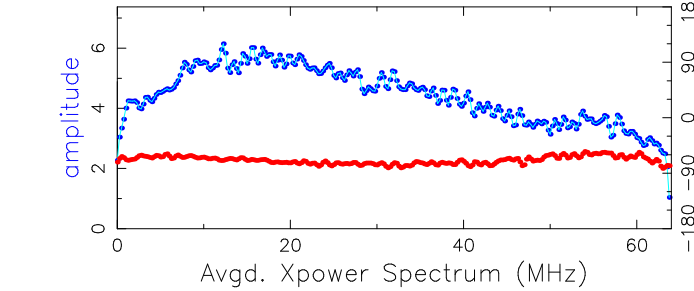
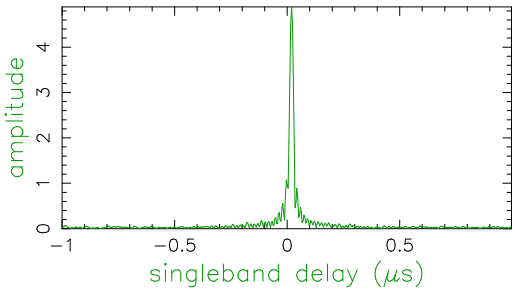
Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/BN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/BN.W.72.2J19XC



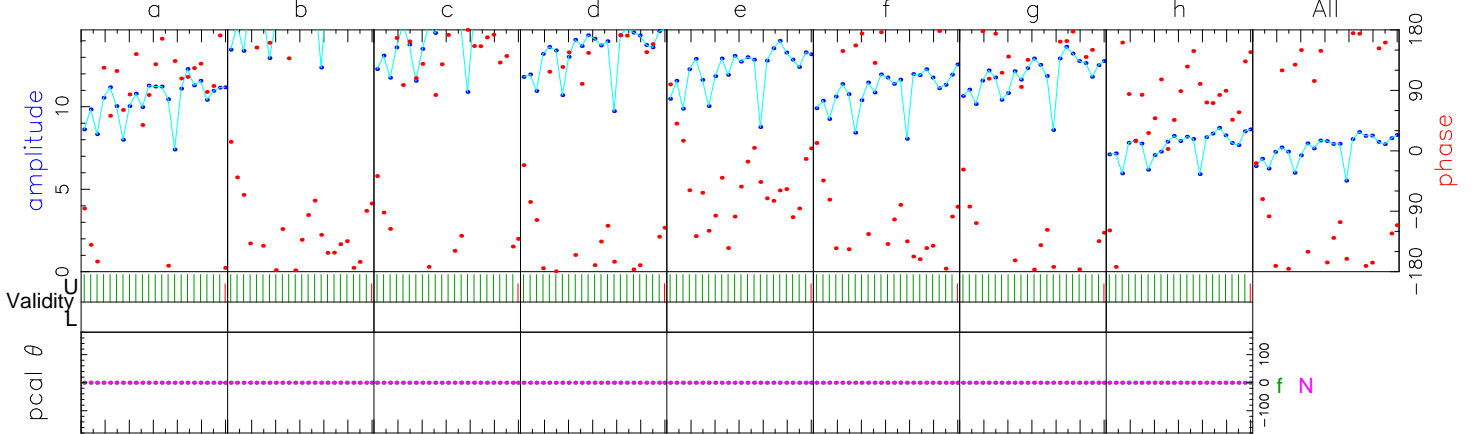
Fringe quality 1

SNR 253.5
Int time 359.635
Amp 4.889
Phase -170.3
PFD 0.0e+00
Delays (us)
SBD 0.019551
MBD -0.002928
Fringe rate (Hz) 0.024687
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145249
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



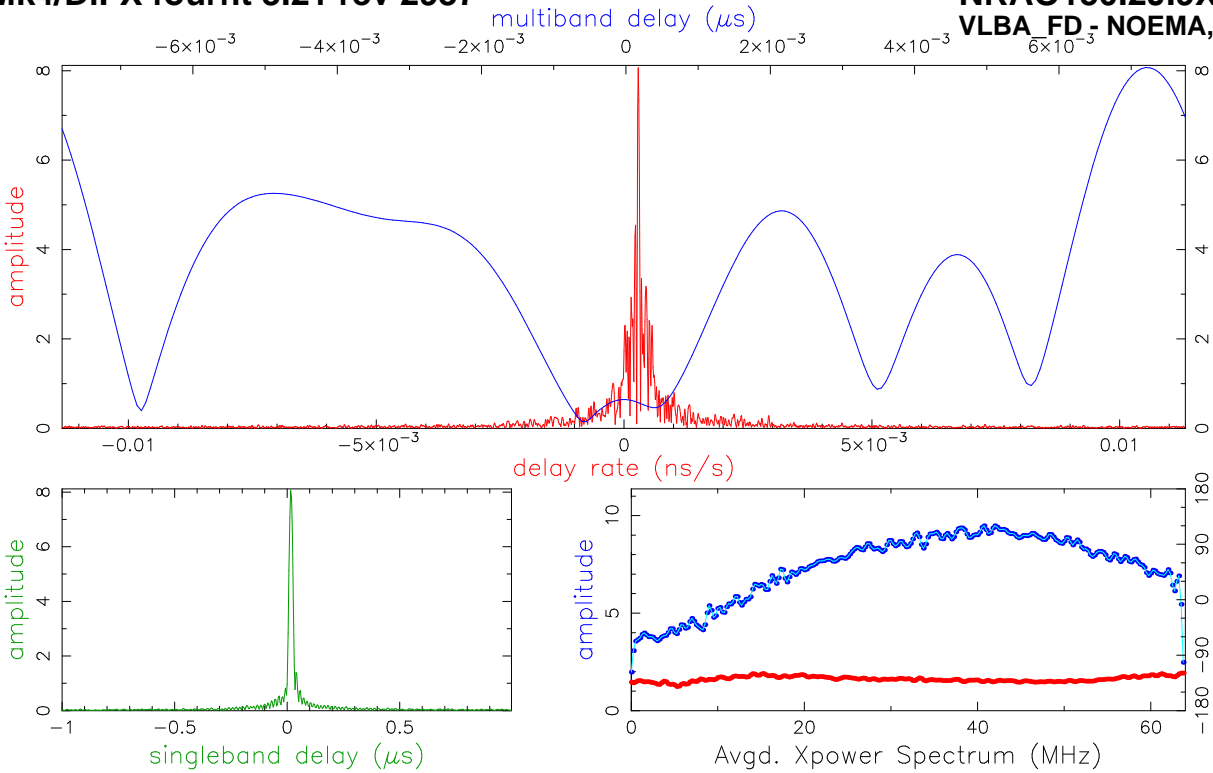
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
f	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-3.67523878994E+03	Apriori delay (usec)	-3.67525148702E+03	Resid mbdelay (usec)	-2.92792E-03	+/-	4.3E-06
Sband delay (usec)	-3.67523193627E+03	Apriori clock (usec)	3.2352352E+01	Resid sbdelay (usec)	1.95508E-02	+/-	3.4E-05
Phase delay (usec)	-3.67525149251E+03	Apriori clockrate (us/s)	2.2714000E-07	Resid phdelay (usec)	-5.49233E-06	+/-	1.5E-08
Delay rate (us/s)	1.25949854604E+00	Apriori rate (us/s)	1.25949825945E+00	Resid rate (us/s)	2.86590E-07	+/-	7.0E-11
Total phase (deg)	-203.4	Apriori accel (us/s/s)	2.77679514227E-06	Resid phase (deg)	-170.3	+/-	0.5

ph/seg (deg)	RMS 56.0	Theor. 1.1	Amplitude Search (2048X32)	4.889 +/- 0.019	4.848	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	54.9	1.9	Interp.	0.000	7.459	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	70.7	0.6	Inc. seg. avg.	7.459	7.942	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	70.9	1.1	Inc. frq. avg.	7.942		Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 47.0 el 41.1 pa -89.7 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -11461.957 -722.092 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/fN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/fN.W.21.2J19XC

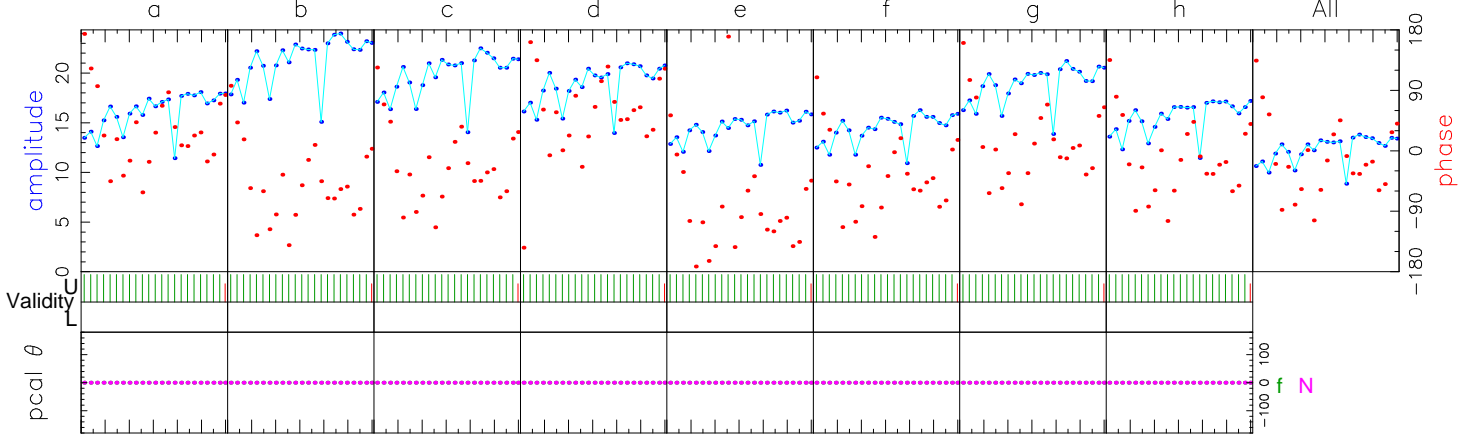


Fringe quality 1

SNR 420.9
Int time 359.635
Amp 8.119
Phase -19.2
PFD 0.0e+00
Delays (us)
SBD 0.016671
MBD 0.007250
Fringe rate (Hz)
0.024712
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145252
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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	
	23.0	-56.2	-30.0	61.0	-103.4	-44.4	5.2	-20.1		Phase	-19.2
	10.6	14.0	12.9	12.3	9.5	9.4	12.3	10.1		Ampl.	11.4
	259.6	261.4	262.0	262.0	262.3	262.2	261.3	259.4		Sbd box	261.3
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		APs used	
f	0	0	0	0	0	0	0	0		PC freqs	
N	0	0	0	0	0	0	0	0		PC freqs	
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000			
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	
										Tracks	
Group delay (usec)(sbd)		-3.67522861156E+03		Apriori delay (usec)		-3.67525148702E+03		Resid mbdelay (usec)		7.25046E-03	+/- 2.6E-06
Sband delay (usec)		-3.67523481552E+03		Apriori clock (usec)		3.2352352E+01		Resid sbdelay (usec)		1.66715E-02	+/- 2.0E-05
Phase delay (usec)		-3.67525148764E+03		Apriori clockrate (us/s)		2.2714000E-07		Resid phdelay (usec)		-6.20050E-07	+/- 8.8E-09
Delay rate (us/s)		1.25949854633E+00		Apriori rate (us/s)		1.25949825945E+00		Resid rate (us/s)		2.86882E-07	+/- 4.2E-11
Total phase (deg)			-52.3	Apriori accel (us/s/s)		2.77679514227E-06		Resid phase (deg)		-19.2	+/- 0.3

ph/seg (deg) 56.1 0.7
amp/seg (%) 54.3 1.1
ph/frq (deg) 54.8 0.4
amp/frq (%) 44.8 0.7

RMS Theor. Amplitude 8.119 +/- 0.019
Search (2048X32) 7.902
Interp. 0.000
Inc. seg. avg. 12.324
Inc. frq. avg. 11.386

Group delay (usec)(sbd) -3.67522861156E+03
Sband delay (usec) -3.67523481552E+03
Phase delay (usec) -3.67525148764E+03
Delay rate (us/s) 1.25949854633E+00
Total phase (deg) -52.3

Apriori delay (usec) -3.67525148702E+03
Apriori clock (usec) 3.2352352E+01
Apriori clockrate (us/s) 2.2714000E-07
Apriori rate (us/s) 1.25949825945E+00
Apriori accel (us/s/s) 2.77679514227E-06

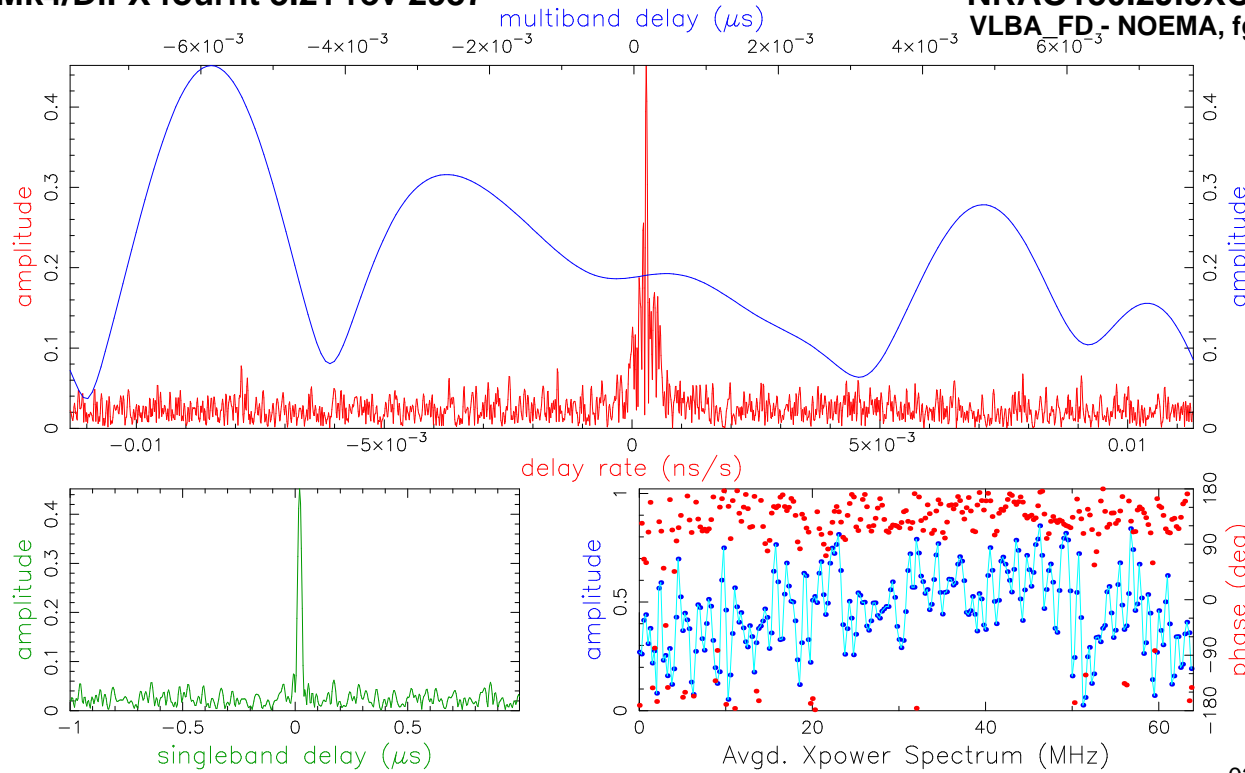
Resid mbdelay (usec) 7.25046E-03
Resid sbdelay (usec) 1.66715E-02
Resid phdelay (usec) -6.20050E-07
Resid rate (us/s) 2.86882E-07
Resid phase (deg) -19.2

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

f: az 47.0 el 41.1 pa -89.7 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -11461.957 -722.092 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/fN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/fN.W.38.2J19XC

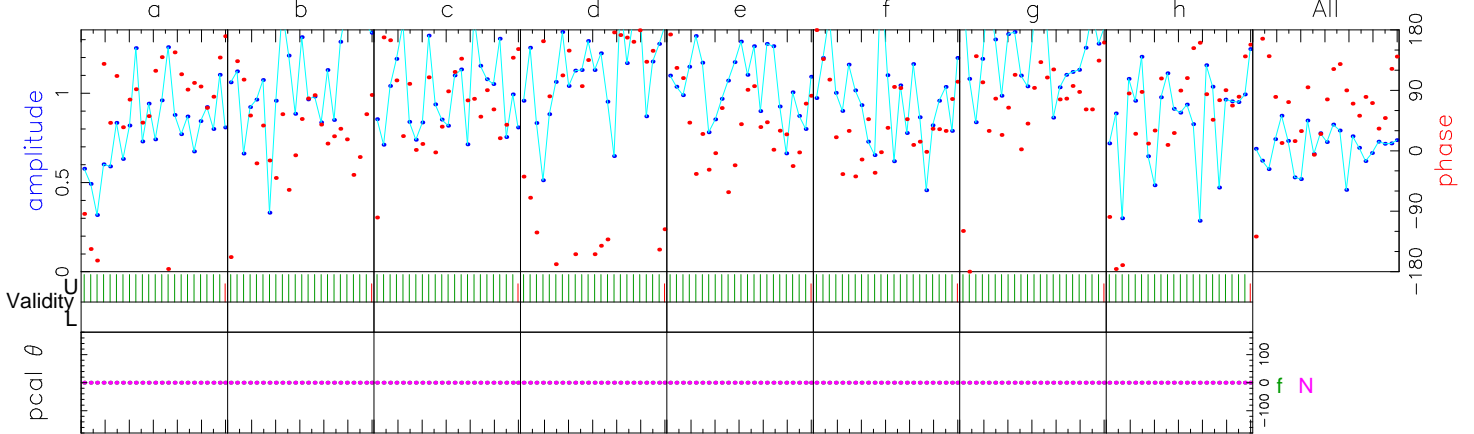


Fringe quality 7

SNR 23.4
Int time 359.635
Amp 0.452
Phase 75.4
PFD 0.0e+00
Delays (us)
SBD 0.019809
MBD -0.005853
Fringe rate (Hz) 0.024702
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145255
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
f	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-3.67522608997E+03	Apriori delay (usec)	-3.67525148702E+03	Resid mbdelay (usec)	-5.85295E-03	+/-	4.6E-05
Sband delay (usec)	-3.67523167777E+03	Apriori clock (usec)	3.2352352E+01	Resid sbdelay (usec)	1.98092E-02	+/-	3.7E-04
Phase delay (usec)	-3.67525148459E+03	Apriori clockrate (us/s)	2.2714000E-07	Resid phdelay (usec)	2.43257E-06	+/-	1.6E-07
Delay rate (us/s)	1.25949854621E+00	Apriori rate (us/s)	1.25949825945E+00	Resid rate (us/s)	2.86763E-07	+/-	7.6E-10
Total phase (deg)		Apriori accel (us/s/s)	2.77679514227E-06	Resid phase (deg)	75.4	+/-	4.9

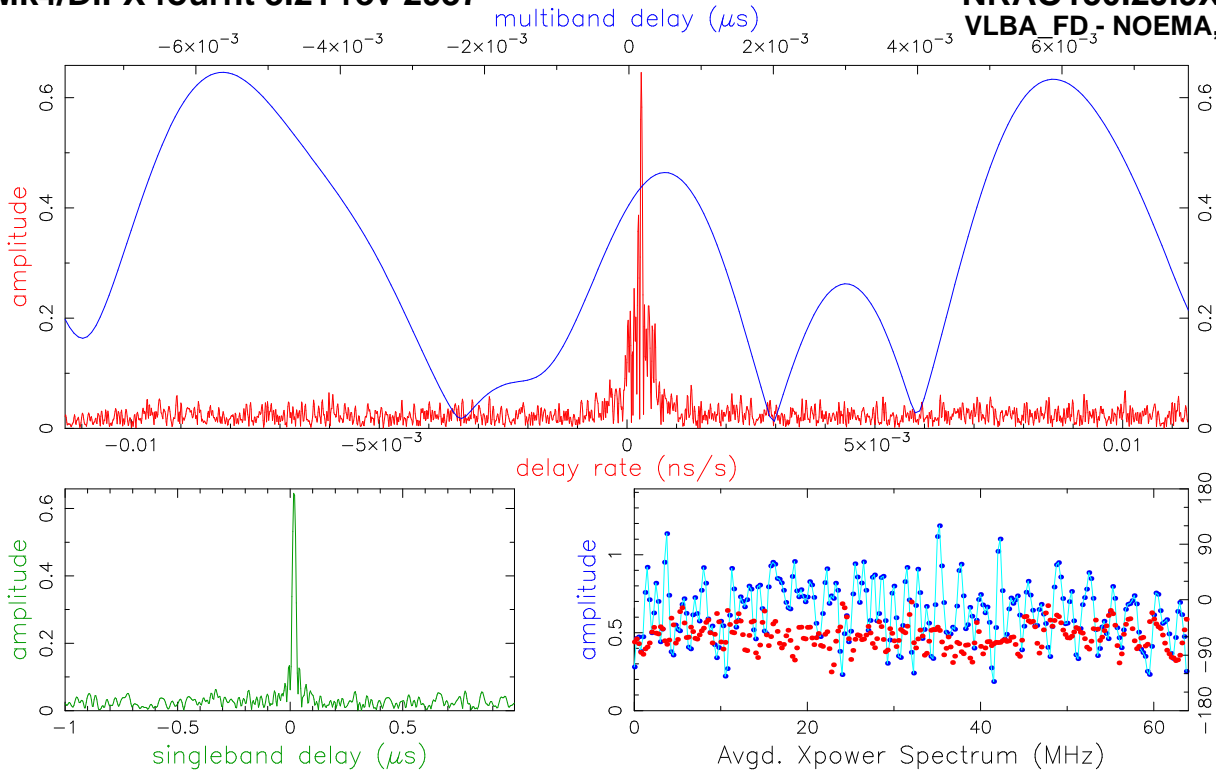
ph/seg (deg)	55.6	Theor.	11.7	Amplitude	0.452 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	58.6	Search (2048X32)	0.447	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	54.0	Inc. seg. avg.	0.681	Inc. frq. avg.	0.634	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	45.7	Inc. frq. avg.	0.634			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

f: az 47.0 el 41.1 pa -89.7 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -11461.957 -722.092 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/fN...2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/fN.W.54.2J19XC

Mk4/DiFX fourfit 3.21 rev 2937

NRAO150.2JI9XC, No0237, fN
VLBA_FD- NOEMA, fgroup W, pol RL

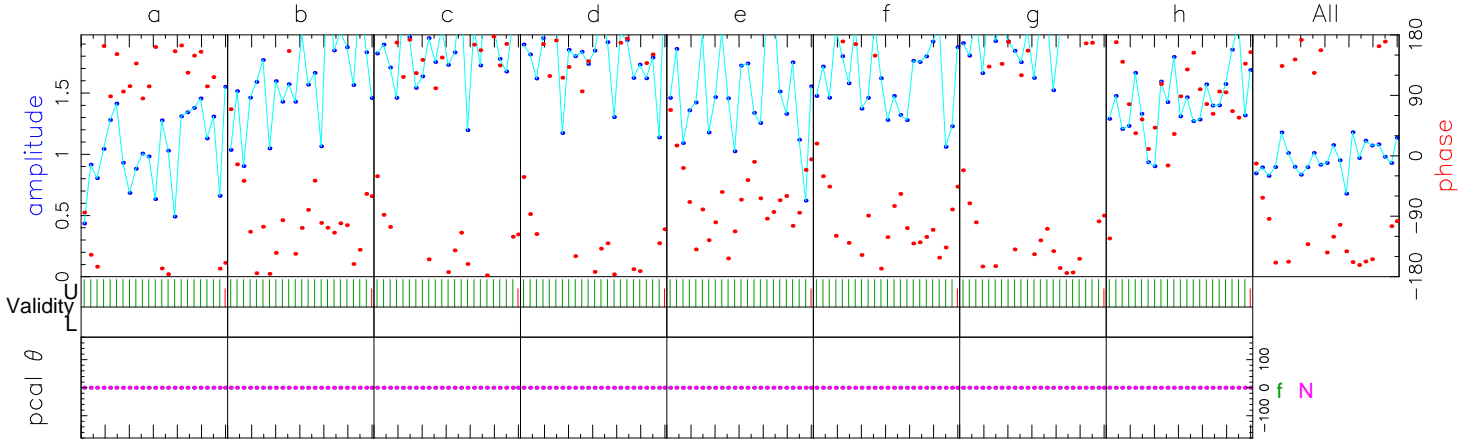


Fringe quality 3

SNR 34.1
Int time 359.635
Amp 0.659
Phase -155.5
PFD 0.0e+00
Delays (us)
SBD 0.017396
MBD -0.005576
Fringe rate (Hz) 0.024643
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145259
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
f	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

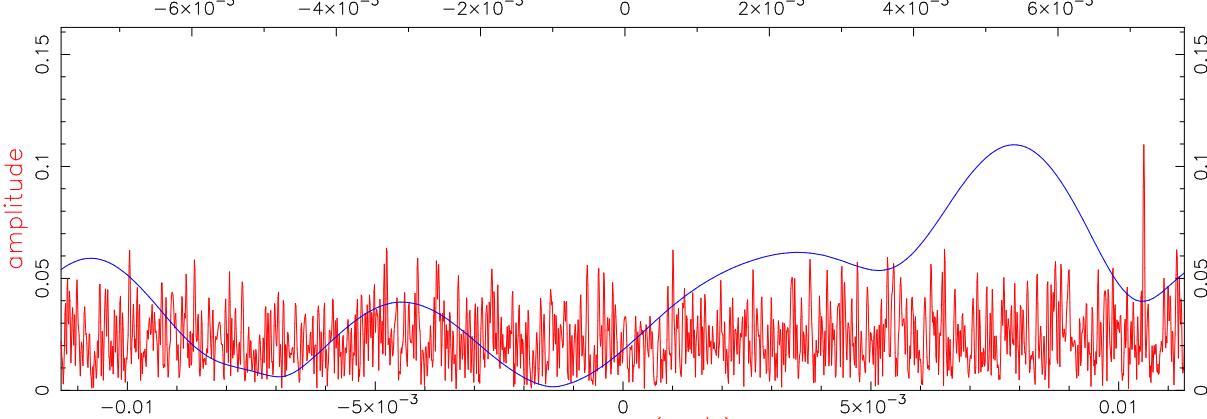
Group delay (usec)(sbd)	-3.67524143815E+03	Apriori delay (usec)	-3.67525148702E+03	Resid mbdelay (usec)	-5.57614E-03	+/-	3.2E-05
Sband delay (usec)	-3.67523409127E+03	Apriori clock (usec)	3.2352352E+01	Resid sbdelay (usec)	1.73957E-02	+/-	2.5E-04
Phase delay (usec)	-3.67525149203E+03	Apriori clockrate (us/s)	2.2714000E-07	Resid phdelay (usec)	-5.01548E-06	+/-	1.1E-07
Delay rate (us/s)	1.25949854553E+00	Apriori rate (us/s)	1.25949825945E+00	Resid rate (us/s)	2.86083E-07	+/-	5.2E-10
Total phase (deg)	-188.6	Apriori accel (us/s/s)	2.77679514227E-06	Resid phase (deg)	-155.5	+/-	3.4

ph/seg (deg)	53.4	RMS	8.0	Theor.	8.0	Amplitude	0.659 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	50.3	Search (2048X32)	0.634	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	Interp.	0.000	sb window (us)	-1.000	1.000	
ph/frq (deg)	69.9	Inc. seg. avg.	0.957	Bits/sample:	2x2	Inc. frq. avg.	1.070	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	67.5	Inc. frq. avg.	1.070	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	dr window (ns/s)	-0.011	0.011
								t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 47.0 el 41.1 pa -89.7 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -11461.957 -722.092 simultaneous interpolator

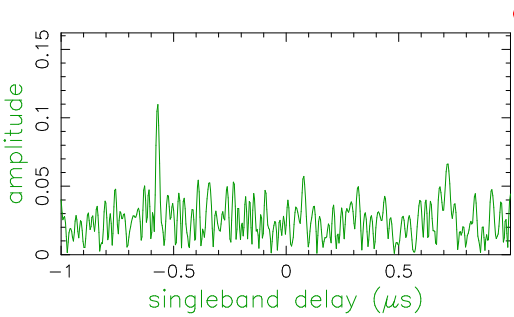
Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/fN..2JI9XC Output file: /Exps/c221d/v1/3mm/3000/No0237/fN.W.66.2JI9XC

multiband delay (μs)

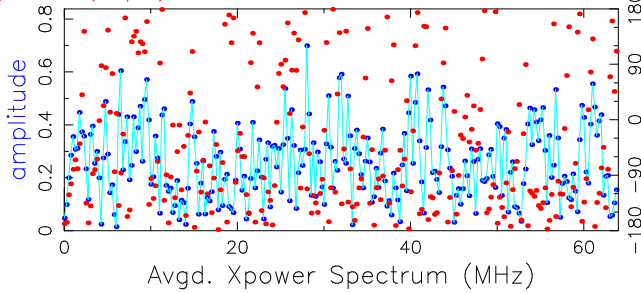


Fringe quality 0

SNR 5.7
 Int time 359.917
 Amp 0.162
 Phase 53.1
 PFD 9.2e-01
 Delays (us)
 SBD -0.571384
 MBD 0.005362
 Fringe rate (Hz) 0.906545
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

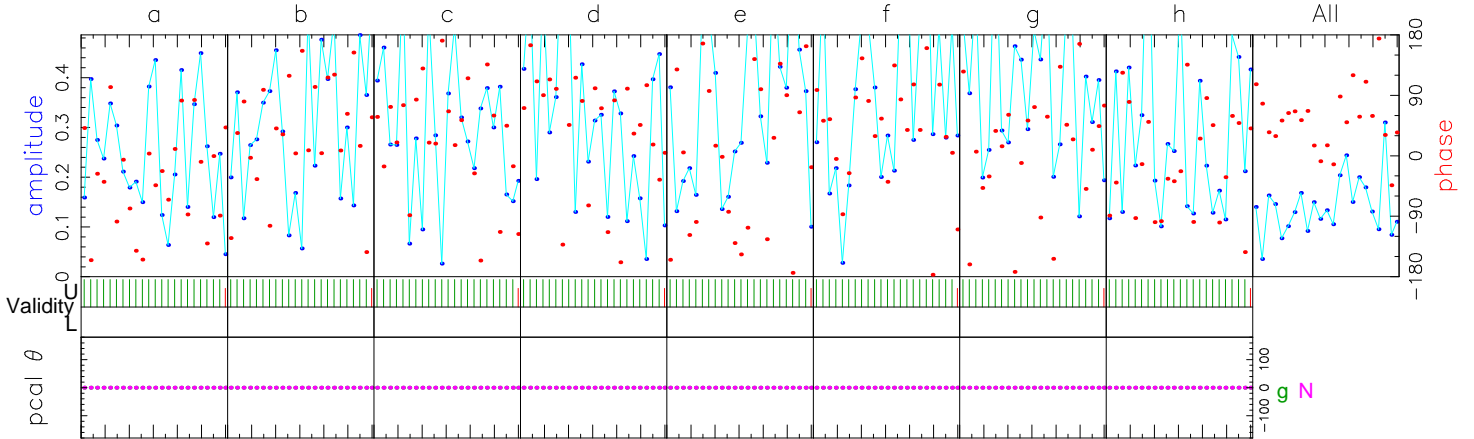


delay rate (ns/s)



Exp. c221d
 Exper # 16383
 Yr:day 2022:094
 Start 180000.00
 Stop 180559.94
 FRT 180300.00
 Corr/FF/build
 2023:010:110447
 2023:010:145330
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'59.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



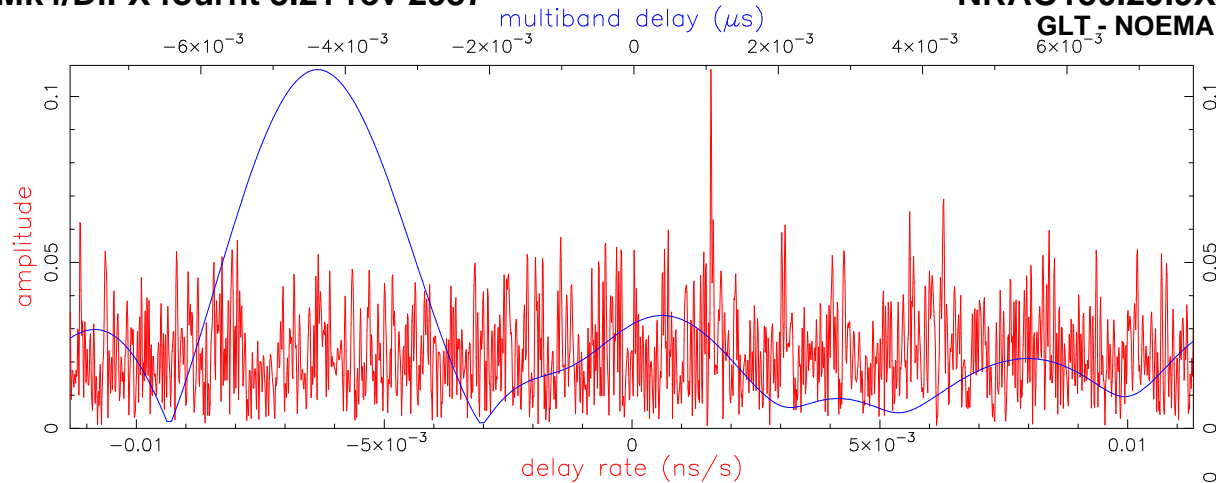
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-29.5	44.2	47.0	87.2	149.4	72.6	37.2	12.5	Phase	53.1
	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.2	Ampl.	0.2
	118.4	383.7	140.0	29.4	399.9	109.8	111.7	338.3	Sbd box	110.7
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N/g	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	
N/g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N/g	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.09578185864E+03	Apriori delay (usec)	1.09635462183E+03	Resid mbdelay (usec)	5.36182E-03	+/-	1.9E-04
Sband delay (usec)	1.09578323783E+03	Apriori clock (usec)	1.3674057E+01	Resid sbdelay (usec)	-5.71384E-01	+/-	1.5E-03
Phase delay (usec)	1.09635462354E+03	Apriori clockrate (us/s)	6.6000001E-08	Resid phdelay (usec)	1.71082E-06	+/-	6.4E-07
Delay rate (us/s)	6.25374558053E-01	Apriori rate (us/s)	6.25364033969E-01	Resid rate (us/s)	1.05241E-05	+/-	3.1E-09
Total phase (deg)	97.7	Apriori accel (us/s/s)	1.79709149093E-05	Resid phase (deg)	53.1	+/-	20.0

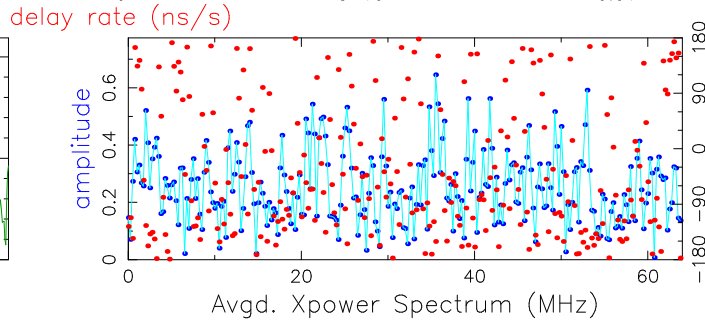
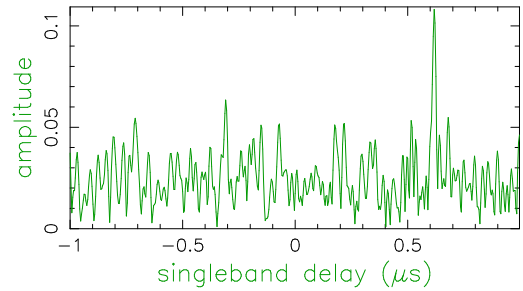
ph/seg (deg)	RMS 46.7	Theor. 48.0	Amplitude Search (2048X32)	0.162 +/- 0.028	0.105	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	60.2	83.7	Interp.	0.000	0.105	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	57.2	28.3	Inc. seg. avg.	0.155	0.105	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	44.6	49.4	Inc. frq. avg.	0.187	0.105	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

g: az 143.3 el 62.6 pa -12.7 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -5674.405 3294.263 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/gN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/gN.W.199.2J19XC

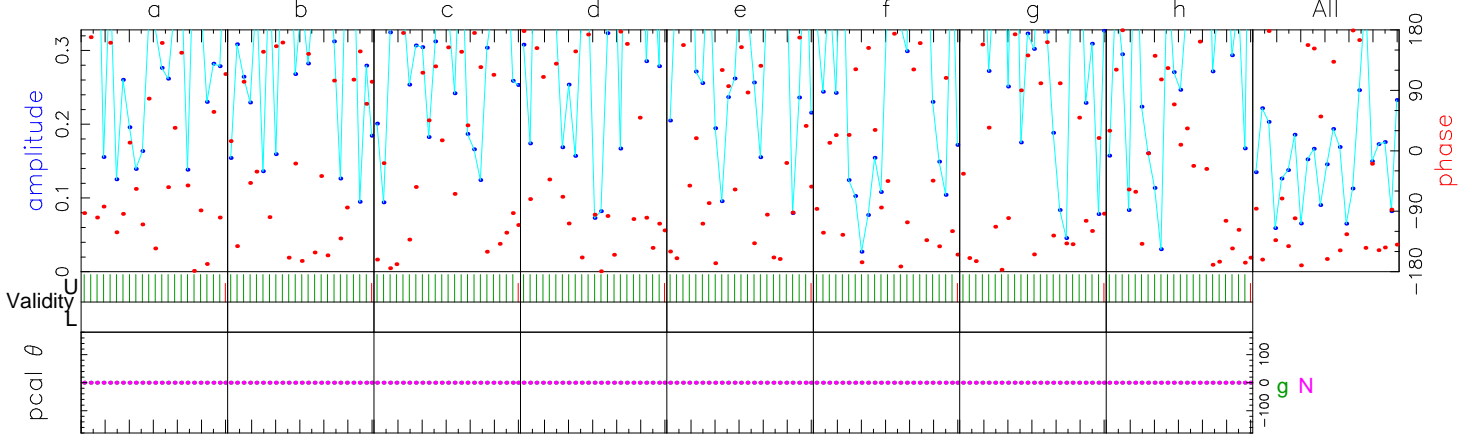


Fringe quality 0
SNR 5.6
Int time 359.914
Amp 0.109
Phase -154.4
PFD 9.9e-01
Delays (us)
SBD 0.617924
MBD -0.004383
Fringe rate (Hz)
0.137271
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145333
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'59.161694"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
g:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:N	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		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

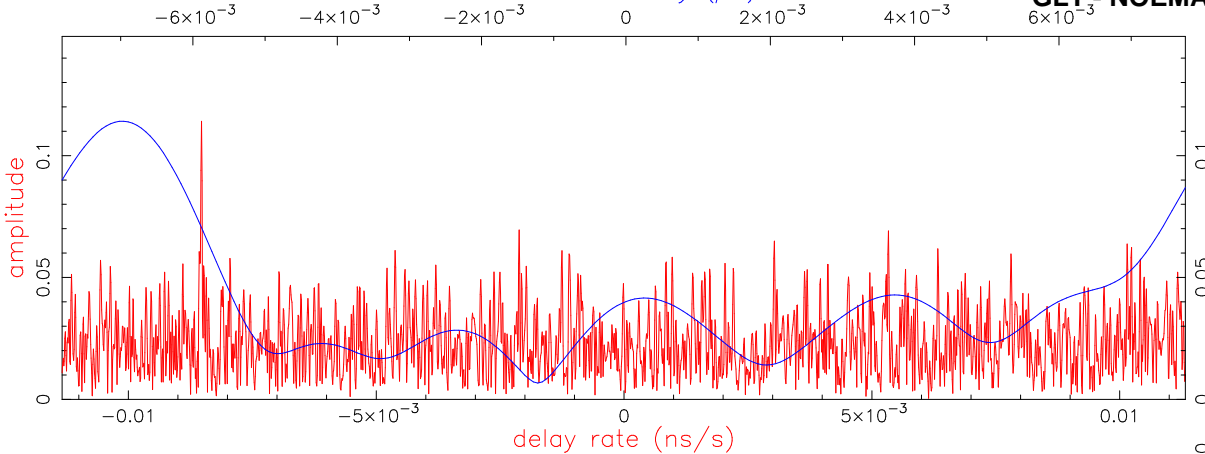
Group delay (usec)(sbd)	1.09697523904E+03	Apriori delay (usec)	1.09635462183E+03	Resid mbdelay (usec)	-4.38279E-03	+/-	1.9E-04
Sband delay (usec)	1.09697254558E+03	Apriori clock (usec)	1.3674057E+01	Resid sbdelay (usec)	6.17924E-01	+/-	1.5E-03
Phase delay (usec)	1.09635461685E+03	Apriori clockrate (us/s)	6.6000001E-08	Resid phdelay (usec)	-4.97863E-06	+/-	6.6E-07
Delay rate (us/s)	6.25365627543E-01	Apriori rate (us/s)	6.25364033969E-01	Resid rate (us/s)	1.59357E-06	+/-	3.2E-09
Total phase (deg)	-109.7	Apriori accel (us/s/s)	1.79709149093E-05	Resid phase (deg)	-154.4	+/-	20.4

ph/seg (deg)	58.3	Theor.	48.8	Amplitude	0.109 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	78.7		85.2	Search (2048X32)	0.105	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	15.5		28.8	Interp.	0.000	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	33.8		50.3	Inc. seg. avg.	0.117	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.099						

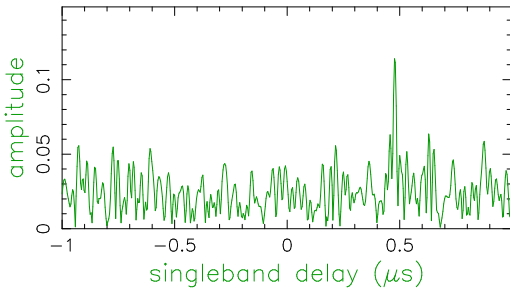
g: az 143.3 el 62.6 pa -12.7 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -5674.405 3294.263 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/gN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/gN.W.225.2J19XC

multiband delay (μs)

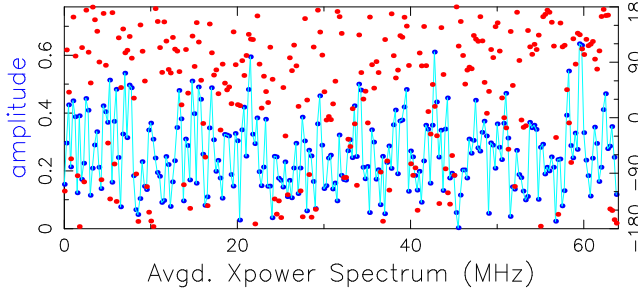
Fringe quality 0



SNR 6.0
 Int time 359.917
 Amp 0.149
 Phase -54.5
 PFD 3.2e-01
 Delays (us)
 SBD 0.478163
 MBD -0.007014
 Fringe rate (Hz)
 -0.735276
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

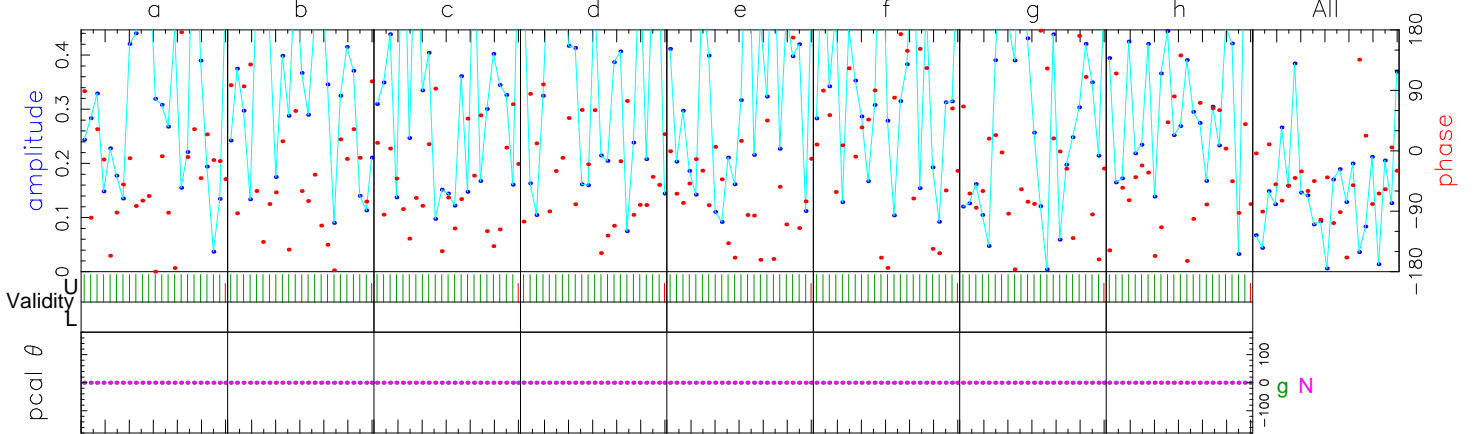


delay rate (ns/s)



Exp. c221d
 Exper # 16383
 Yr:day 2022:094
 Start 180000.00
 Stop 180559.94
 FRT 180300.00
 Corr/FF/build
 2023:010:110447
 2023:010:145336
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'59.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



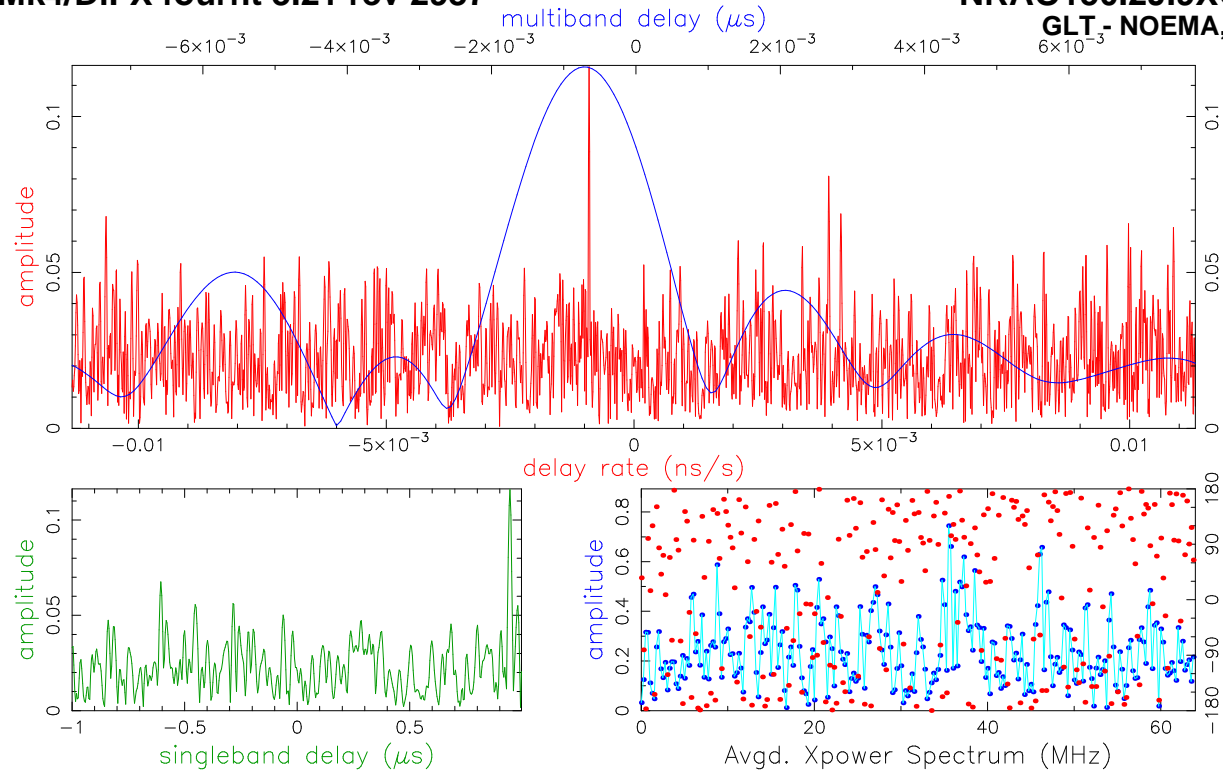
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-45.4	-57.0	-59.0	-47.0	-84.7	94.9	-58.3	-26.7	Phase	-54.5
	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	Ampl.	0.1
	472.6	11.0	306.4	379.1	380.1	373.4	228.2	327.0	Sbd box	379.4
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
Z/g	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 freqs	
g:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	1.09683198295E+03	Apriori delay (usec)	1.09635462183E+03	Resid mbdelay (usec)	-7.01387E-03	+/-	1.8E-04
Sband delay (usec)	1.09683278508E+03	Apriori clock (usec)	1.3674057E+01	Resid sbdelay (usec)	4.78163E-01	+/-	1.4E-03
Phase delay (usec)	1.09635462007E+03	Apriori clockrate (us/s)	6.6000001E-08	Resid phdelay (usec)	-1.75776E-06	+/-	6.1E-07
Delay rate (us/s)	6.25355498145E-01	Apriori rate (us/s)	6.25364033969E-01	Resid rate (us/s)	-8.53582E-06	+/-	2.9E-09
Total phase (deg)	-9.8	Apriori accel (us/s/s)	1.79709149093E-05	Resid phase (deg)	-54.5	+/-	19.0

ph/seg (deg)	54.1	Theor.	45.4	Amplitude	0.149 +/- 0.025	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	83.3		79.3	Search (2048X32)	0.113	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	63.5		26.8	Inc. seg. avg.	0.141	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	41.8		46.8	Inc. frq. avg.	0.149	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

g: az 143.3 el 62.6 pa -12.7 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -5674.405 3294.263 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/gN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/gN.W.249.2J19XC

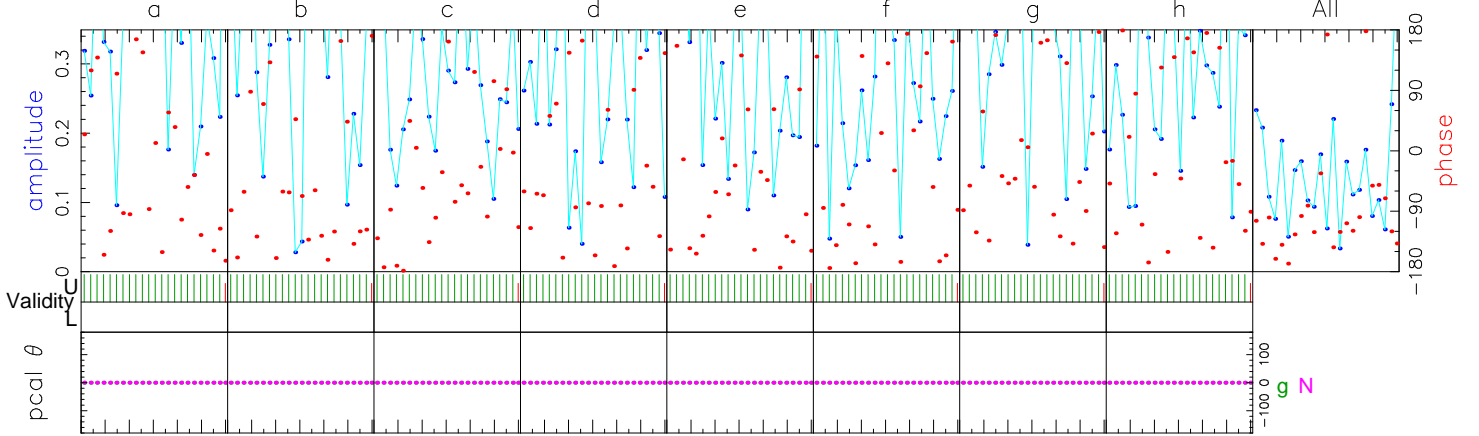


Fringe quality 0

SNR 6.0
 Int time 359.914
 Amp 0.116
 Phase -118.6
 PFD 3.6e-01
 Delays (us)
 SBD 0.944845
 MBD -0.000725
 Fringe rate (Hz)
 -0.078537
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c221d
 Exper # 16383
 Yr:day 2022:094
 Start 180000.00
 Stop 180559.94
 FRT 180300.00
 Corr/FF/build
 2023:010:110447
 2023:010:145340
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

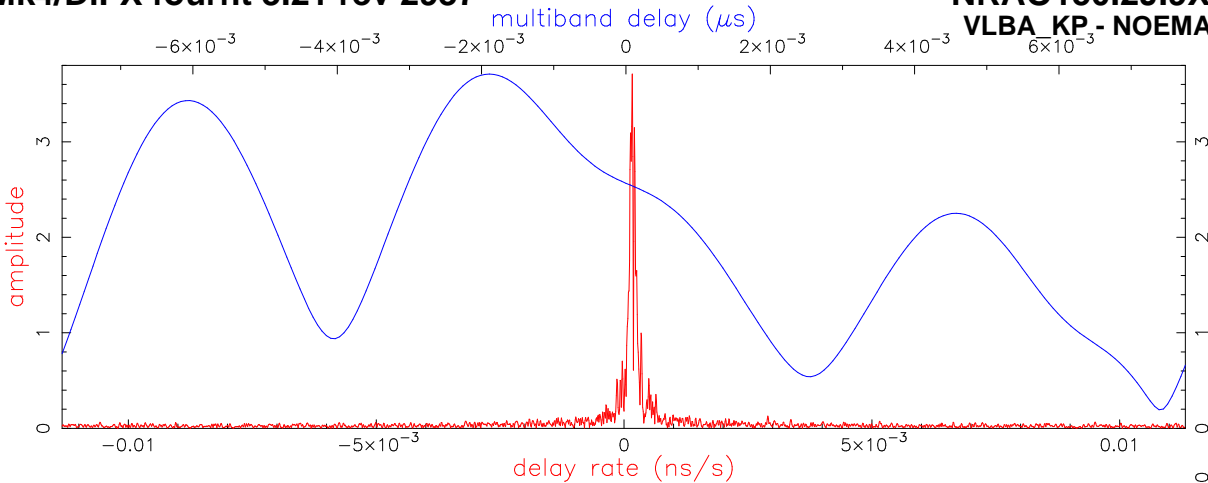


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-132.2	-128.7	-71.2	-108.8	-117.1	-153.4	-99.4	-129.0	Phase	-118.6
	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	393.2	499.3	77.0	271.3	141.4	450.5	233.9	14.4	Sbd box	498.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N/g	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	
N/g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N/g	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) 1.09730702180E+03 Apriori delay (usec) 1.09635462183E+03 Resid mbdelay (usec) -7.25022E-04 +/- 1.8E-04
 Sband delay (usec) 1.09729946708E+03 Apriori clock (usec) 0.111 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 Phase delay (usec) 1.09635461800E+03 Apriori clockrate (us/s) 6.6000001E-08 Resid sbdelay (usec) 9.44845E-01 +/- 1.4E-03
 Delay rate (us/s) 6.25363122232E-01 Apriori rate (us/s) 6.25364033969E-01 Resid phdelay (usec) -3.82315E-06 +/- 6.1E-07
 Total phase (deg) -73.9 Apriori accel (us/s/s) 1.79709149093E-05 Resid rate (us/s) -9.11736E-07 +/- 3.0E-09
 Resid phase (deg) -118.6 +/- 19.0

RMS Theor. Amplitude 0.116 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 40.0 45.6 Search (2048X32) 0.111 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 72.8 79.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 26.8 26.9 Inc. seg. avg. 0.108 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 27.7 47.0 Inc. frq. avg. 0.111 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

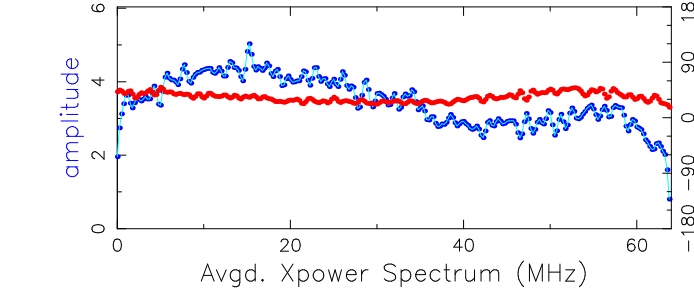
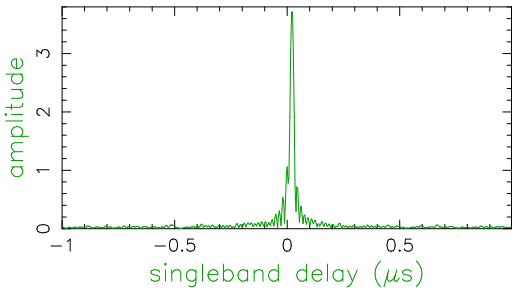
g: az 143.3 el 62.6 pa -12.7 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -5674.405 3294.263 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/gN..2JI9XC Output file: /Exps/c221d/v1/3mm/3000/No0237/gN.W.270.2JI9XC



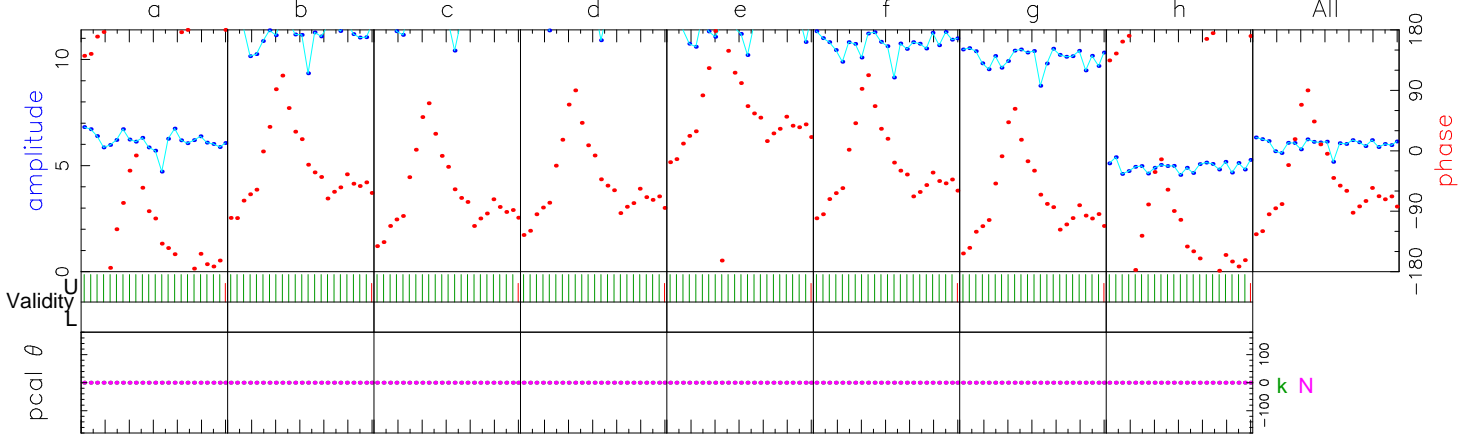
Fringe quality 1

SNR 197.1
Int time 359.918
Amp 3.800
Phase -55.4
PFD 0.0e+00
Delays (us)
SBD 0.021478
MBD -0.001917
Fringe rate (Hz) 0.014729
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145328
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"



Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



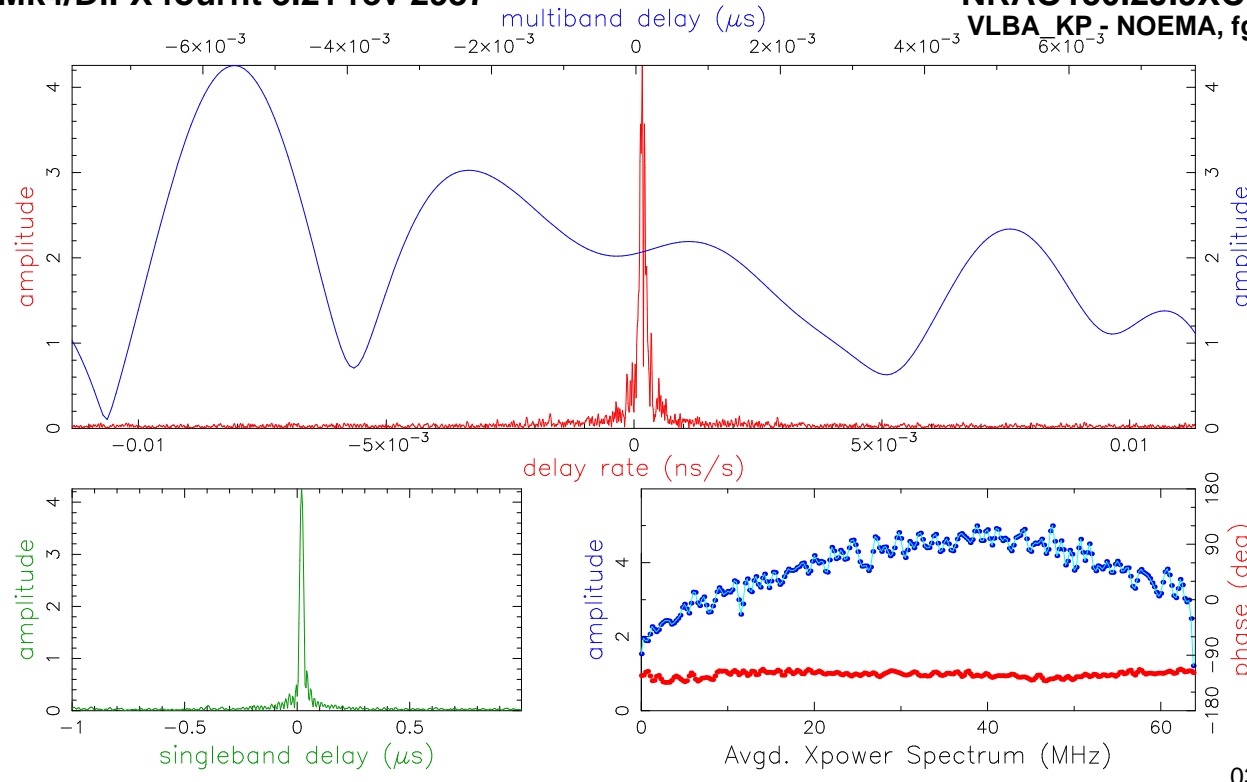
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-152.5	-35.0	-73.6	-56.1	50.9	-32.1	-81.6	-156.3	Phase	-55.4
	3.8	6.9	7.4	7.6	7.2	6.7	6.2	3.1	Ampl.	6.1
	260.2	262.0	262.9	262.7	262.5	262.7	262.1	260.0	Sbd box	262.5
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
k	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
k:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-4.81468853297E+03	Apriori delay (usec)	-4.81470224094E+03	Resid mbdelay (usec)	-1.91703E-03	+/-	5.5E-06
Sband delay (usec)	-4.81468076319E+03	Apriori clock (usec)	1.5719299E+01	Resid sbdelay (usec)	2.14777E-02	+/-	4.4E-05
Phase delay (usec)	-4.81470224273E+03	Apriori clockrate (us/s)	-2.0000000E-09	Resid phdelay (usec)	-1.78724E-06	+/-	1.9E-08
Delay rate (us/s)	1.29751383884E+00	Apriori rate (us/s)	1.29751366784E+00	Resid rate (us/s)	1.70995E-07	+/-	9.0E-11
Total phase (deg)	-67.9	Apriori accel (us/s/s)	1.04761078761E-05	Resid phase (deg)	-55.4	+/-	0.6

ph/seg (deg)	57.6	1.4	Search (2048X32)	3.556	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	58.5	2.4	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)	74.0	0.8	Inc. seg. avg.	6.005	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	73.6	1.4	Inc. frq. avg.	6.093	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

k: az 47.4 el 37.2 pa -83.5 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -11798.009 137.808 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/kN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/kN.W.192.2J19XC

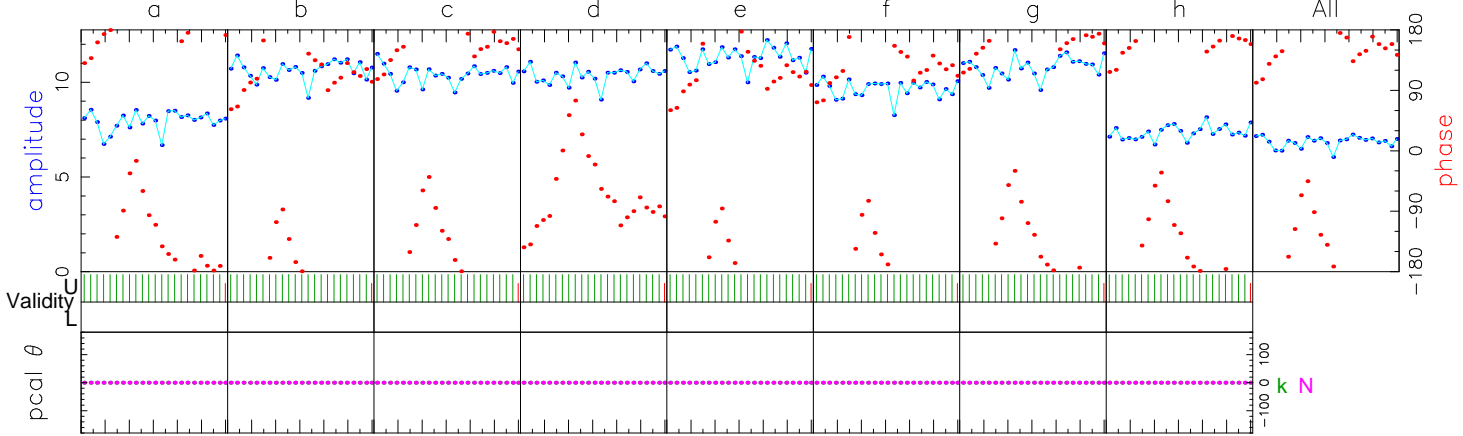


Fringe quality 1

SNR 220.8
Int time 359.918
Amp 4.257
Phase 170.2
PFD 0.0e+00
Delays (us)
SBD 0.019751
MBD -0.005560
Fringe rate (Hz)
0.014723
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

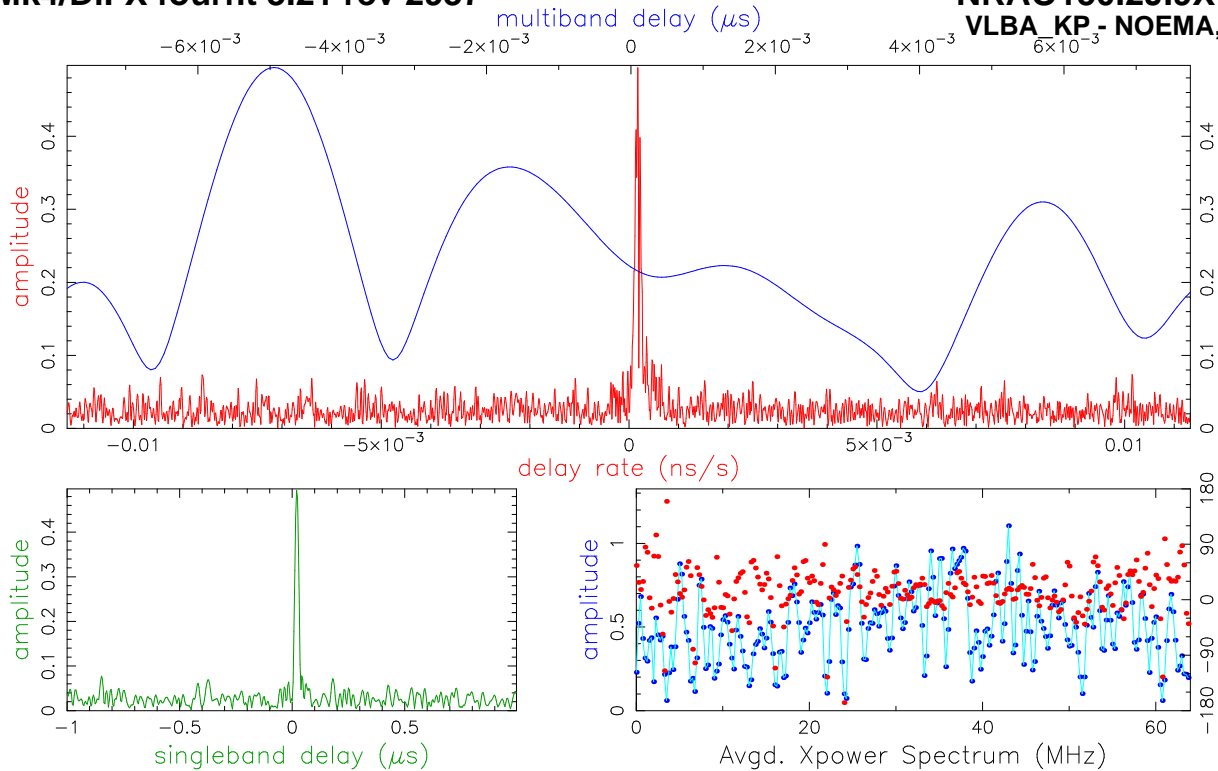
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145332
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



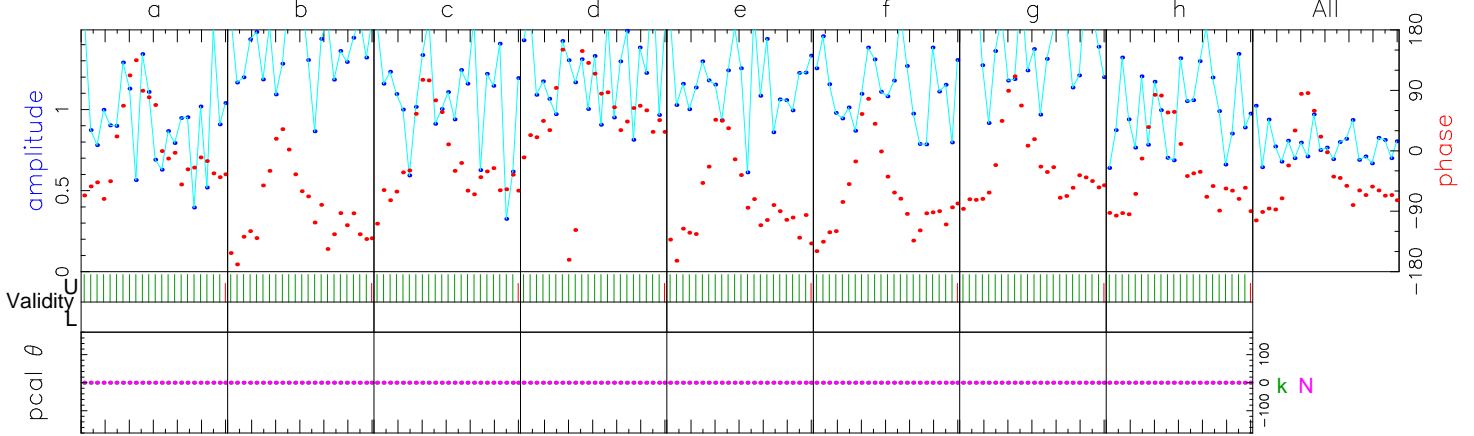
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-158.6	129.7	177.0	-72.6	128.4	140.8	-174.1	-175.5	Phase	170.2
	4.9	6.6	6.5	6.4	7.0	6.0	6.7	4.6	Ampl.	6.1
	260.4	262.5	262.8	262.9	262.6	263.0	262.0	260.4	Sbd box	262.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
k	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
k:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.81467655078E+03		Apriori delay (usec)		-4.81470224094E+03		Resid mbdelay (usec)		-5.55984E-03	+/- 4.9E-06
Sband delay (usec)	-4.81468248969E+03		Apriori clock (usec)		1.5719299E+01		Resid sbdelay (usec)		1.97513E-02	+/- 3.9E-05
Phase delay (usec)	-4.81470223545E+03		Apriori clockrate (us/s)		-2.0000000E-09		Resid phdelay (usec)		5.48992E-06	+/- 1.7E-08
Delay rate (us/s)	1.29751383876E+00		Apriori rate (us/s)		1.29751366784E+00		Resid rate (us/s)		1.70920E-07	+/- 8.1E-11
Total phase (deg)	157.7		Apriori accel (us/s/s)		1.04761078761E-05		Resid phase (deg)		170.2	+/- 0.5

ph/seg (deg) 57.4 1.2 Search (2048X32) 3.980 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 61.5 2.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 56.9 0.7 Inc. seg. avg. 6.857 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 47.1 1.3 Inc. frq. avg. 6.083 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 47.4 el 37.2 pa -83.5 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -11798.009 137.808 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/kN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/kN.W.220.2J19XC



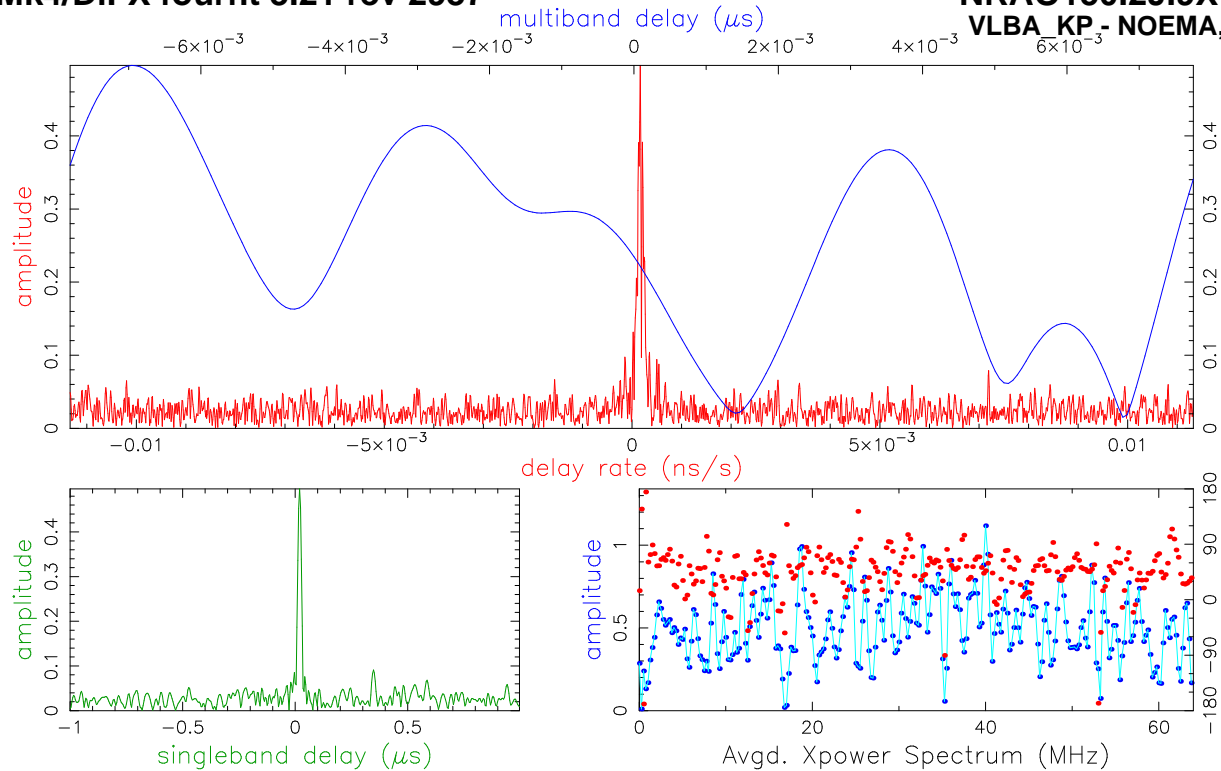
Fringe quality 5
 SNR 25.8
 Int time 359.918
 Amp 0.497
 Phase -47.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.020589
 MBD -0.004912
 Fringe rate (Hz)
 0.014812
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c221d
 Exper # 16383
 Yr:day 2022:094
 Start 180000.00
 Stop 180559.94
 FRT 180300.00
 Corr/FF/build
 2023:010:110447
 2023:010:145336
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



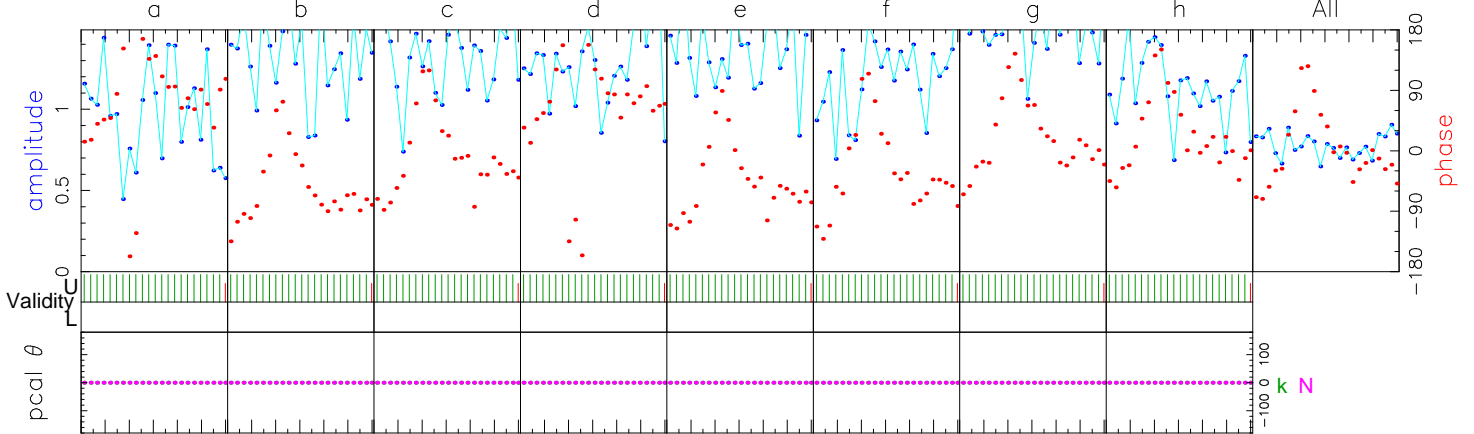
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-9.5	-93.9	-31.5	63.0	-85.5	-81.5	-35.8	-44.4	Phase	-47.6
	0.5	0.9	0.6	0.7	0.7	0.6	0.9	0.6	Ampl.	0.7
	260.3	262.3	263.4	262.9	263.0	263.1	262.2	260.3	Sbd box	262.3
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
k	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
k:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.81467590307E+03		Apriori delay (usec)		-4.81470224094E+03		Resid mbdelay (usec)		-4.91213E-03	+/- 4.2E-05
Sband delay (usec)	-4.81468165244E+03		Apriori clock (usec)		1.5719299E+01		Resid sbdelay (usec)		2.05885E-02	+/- 3.3E-04
Phase delay (usec)	-4.81470224248E+03		Apriori clockrate (us/s)		-2.0000000E-09		Resid phdelay (usec)		-1.53355E-06	+/- 1.4E-07
Delay rate (us/s)	1.29751383980E+00		Apriori rate (us/s)		1.29751366784E+00		Resid rate (us/s)		1.71956E-07	+/- 6.9E-10
Total phase (deg)			Apriori accel (us/s/s)		1.04761078761E-05		Resid phase (deg)		-47.6	+/- 4.4

ph/seg (deg) 56.3 10.7 Search (2048X32) 0.463 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 61.0 18.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 56.0 6.3 Inc. seg. avg. 0.770 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 49.6 11.0 Inc. frq. avg. 0.702 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 47.4 el 37.2 pa -83.5 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -11798.009 137.808 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/kN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/kN.W.245.2J19XC



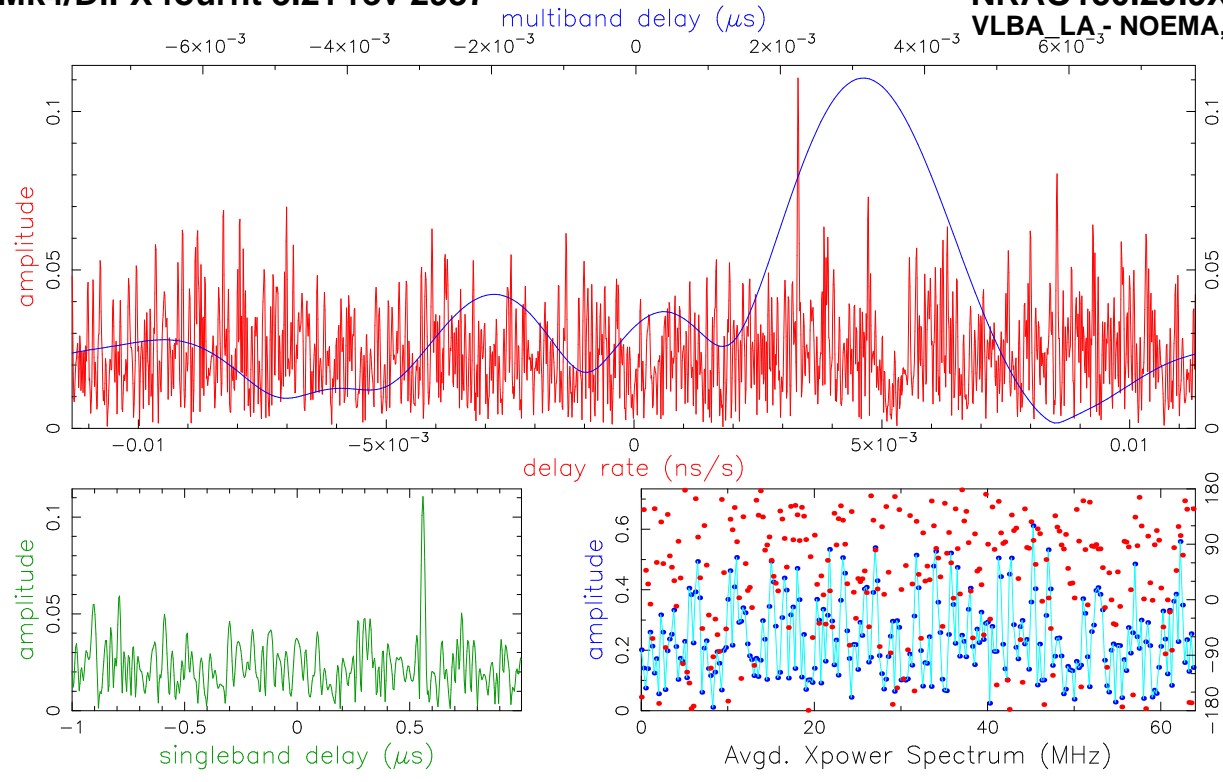
Fringe quality 5
 SNR 25.7
 Int time 359.918
 Amp 0.496
 Phase -6.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.019561
 MBD -0.006944
 Fringe rate (Hz) 0.014663
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c221d
 Exper # 16383
 Yr:day 2022:094
 Start 180000.00
 Stop 180559.94
 FRT 180300.00
 Corr/FF/build
 2023:010:110447
 2023:010:145339
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'59.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



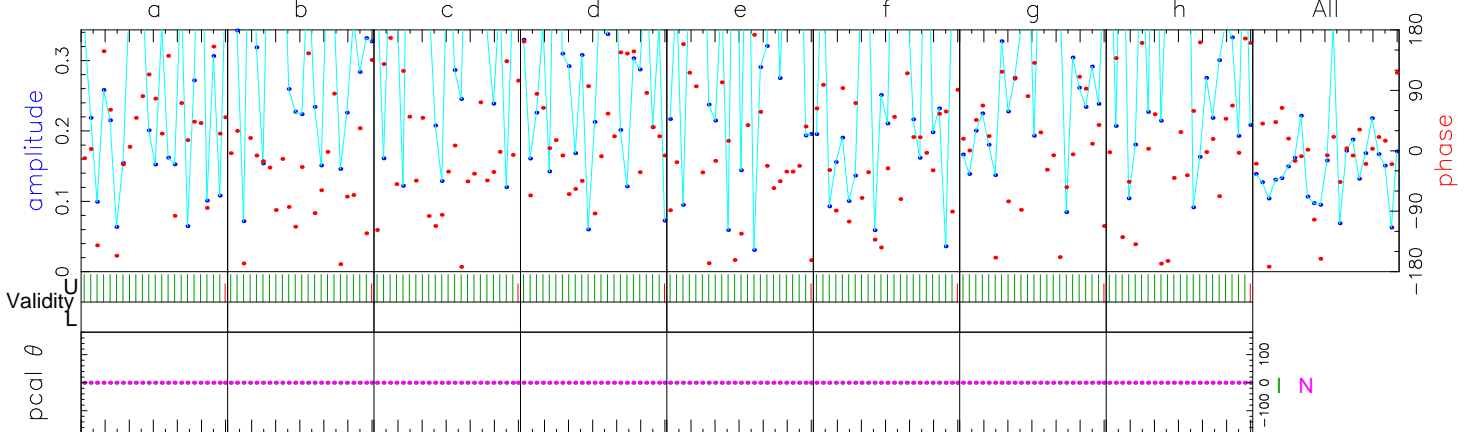
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	83.2	-60.7	-19.6	86.2	-54.8	-43.1	11.2	14.6	Phase	-6.0
	0.7	0.9	0.8	0.8	0.9	0.6	1.0	0.7	Ampl.	0.8
	260.4	261.7	262.6	263.0	262.4	263.2	261.9	260.1	Sbd box	262.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
k	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
k:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.81467793503E+03		Apriori delay (usec)		-4.81470224094E+03		Resid mbdelay (usec)		-6.94409E-03	+/- 4.2E-05
Sband delay (usec)	-4.81468267969E+03		Apriori clock (usec)		1.5719299E+01		Resid sbdelay (usec)		1.95612E-02	+/- 3.3E-04
Phase delay (usec)	-4.81470224113E+03		Apriori clockrate (us/s)		-2.0000000E-09		Resid phdelay (usec)		-1.93101E-07	+/- 1.4E-07
Delay rate (us/s)	1.29751383807E+00		Apriori rate (us/s)		1.29751366784E+00		Resid rate (us/s)		1.70223E-07	+/- 6.9E-10
Total phase (deg)			Apriori accel (us/s/s)		1.04761078761E-05		Resid phase (deg)		-6.0	+/- 4.5

ph/seg (deg) 55.3 10.7 Search (2048X32) 0.477 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 58.9 18.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 63.4 6.3 Inc. seg. avg. 0.766 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 65.3 11.0 Inc. frq. avg. 0.794 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 47.4 el 37.2 pa -83.5 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -11798.009 137.808 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/kN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/kN.W.266.2J19XC



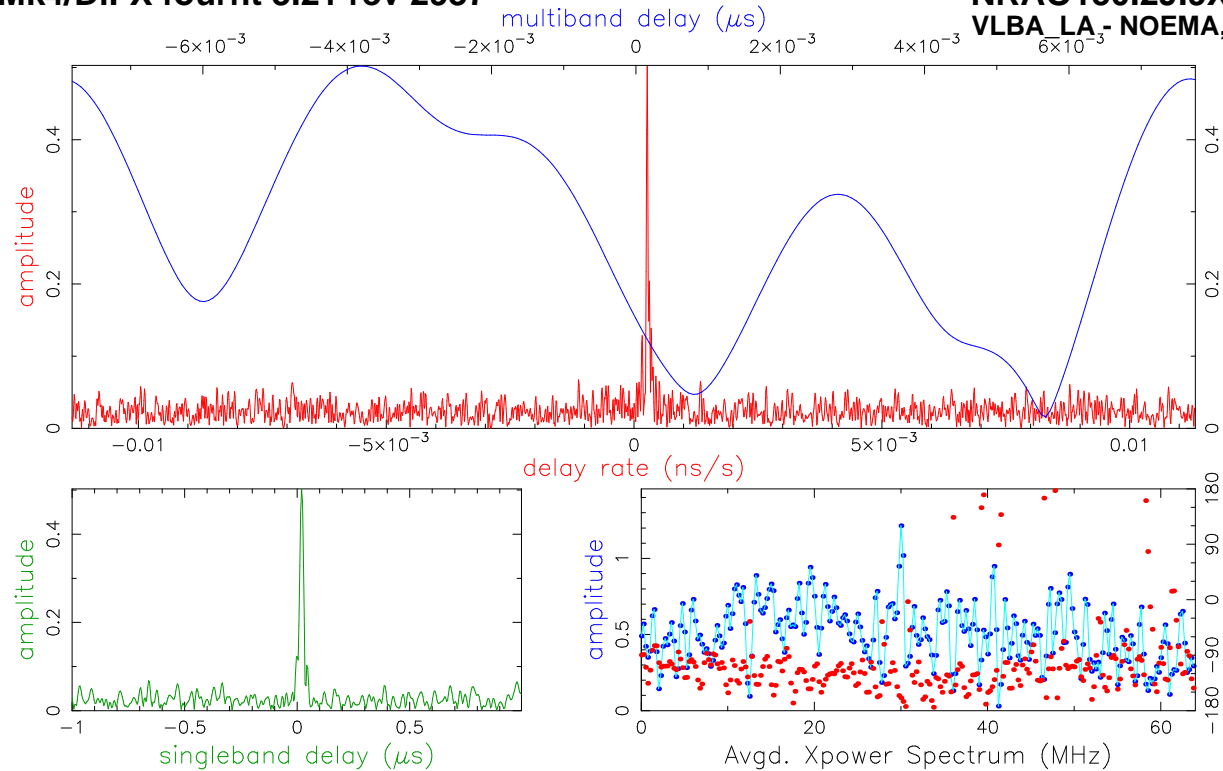
Fringe quality 0
 SNR 5.7
 Int time 359.635
 Amp 0.115
 Phase 7.5
 PFD 9.1e-01
 Delays (us)
 SBD 0.558691
 MBD 0.003151
 Fringe rate (Hz) 0.285148
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c221d
 Exper # 16383
 Yr:day 2022:094
 Start 180000.00
 Stop 180559.94
 FRT 180300.00
 Corr/FF/build
 2023:010:110447
 2023:010:145325
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
I	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.17006020051E+03									
Sband delay (usec)	-3.17006716123E+03									
Phase delay (usec)	-3.17062585174E+03									
Delay rate (us/s)	1.23314172793E+00									
Total phase (deg)			-312.9							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

I: az 50.3 el 43.0 pa -83.8 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -11218.033 59.070
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/IN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/IN.W.115.2J19XC

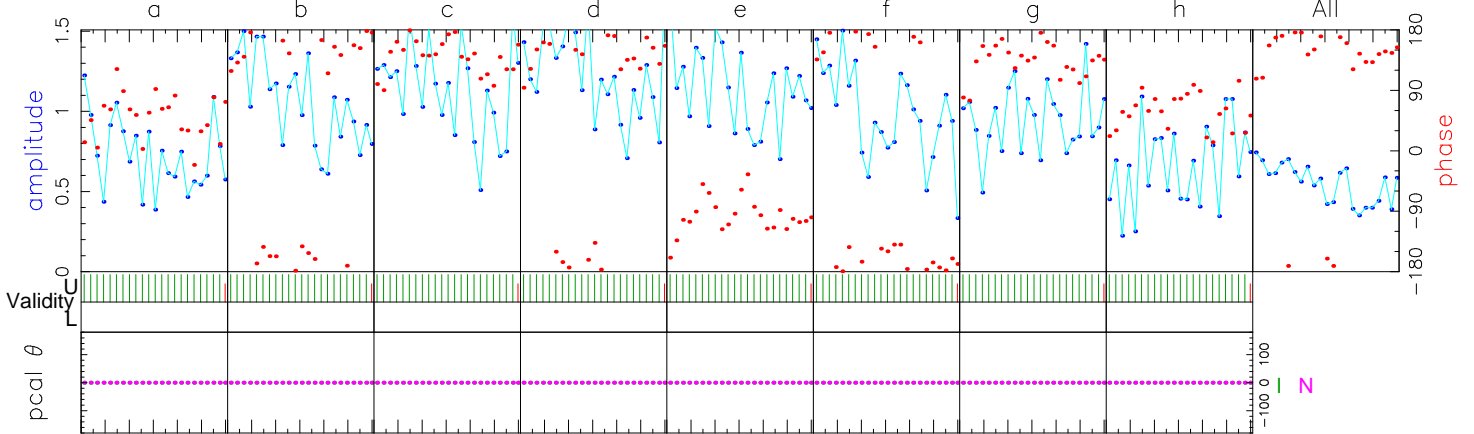


Fringe quality 6

SNR 26.1
Int time 359.635
Amp 0.503
Phase 155.0
PFD 0.0e+00
Delays (us)
SBD 0.020055
MBD -0.003801
Fringe rate (Hz)
0.022745
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145328
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



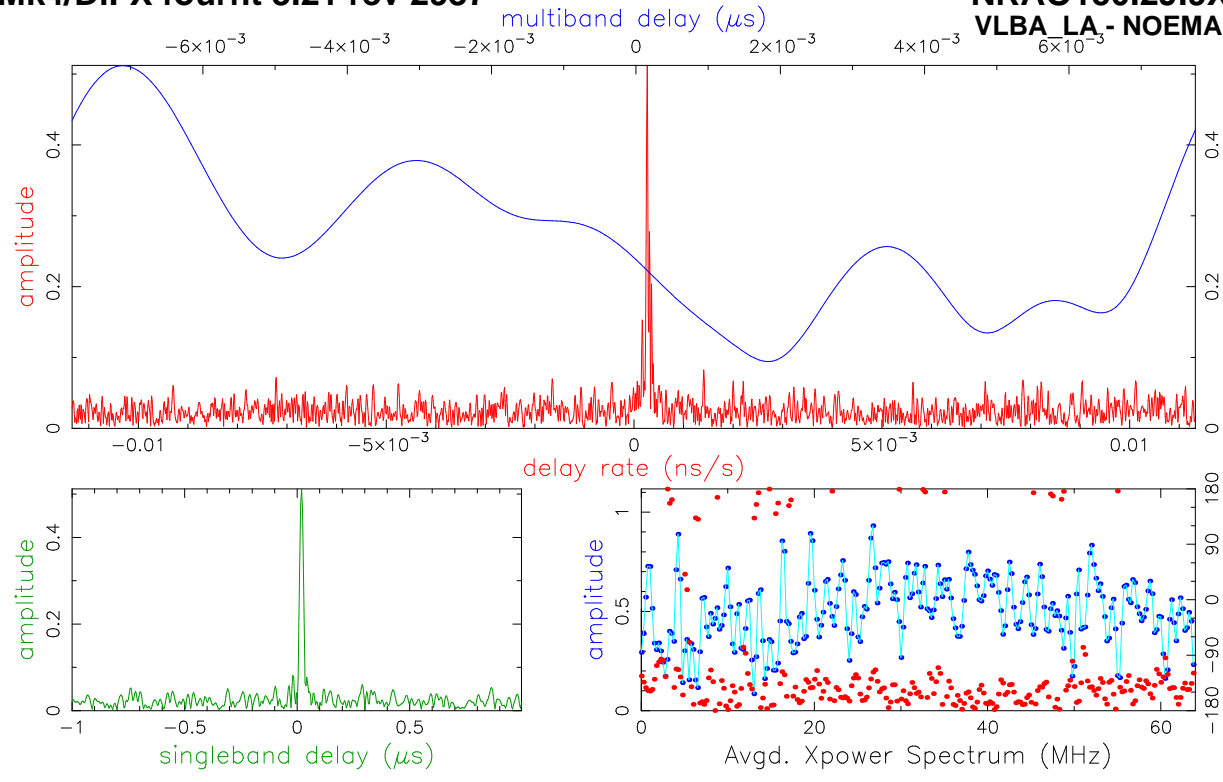
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
I	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-3.17059840294E+03	Apriori delay (usec)	-3.17062585198E+03	Resid mbdelay (usec)	-3.80096E-03	+/-	4.2E-05
Sband delay (usec)	-3.17060579673E+03	Apriori clock (usec)	6.3131294E+00	Resid sbdelay (usec)	2.00552E-02	+/-	3.3E-04
Phase delay (usec)	-3.17062584698E+03	Apriori clockrate (us/s)	-3.4594999E-07	Resid phdelay (usec)	4.99930E-06	+/-	1.4E-07
Delay rate (us/s)	1.23313868169E+00	Apriori rate (us/s)	1.23313841764E+00	Resid rate (us/s)	2.64047E-07	+/-	6.8E-10
Total phase (deg)	-165.3	Apriori accel (us/s/s)	6.53497207972E-06	Resid phase (deg)	155.0	+/-	4.4

ph/seg (deg)	24.1	Theor.	10.5	Amplitude	0.503 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	25.3		18.4	Search (2048X32)	0.497	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	74.8		6.2	Inc. seg. avg.	0.541	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	81.5		10.8	Inc. frq. avg.	0.870	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

I: az 50.3 el 43.0 pa -83.8 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -11218.033 59.070 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/IN...2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/IN.W.143.2J19XC

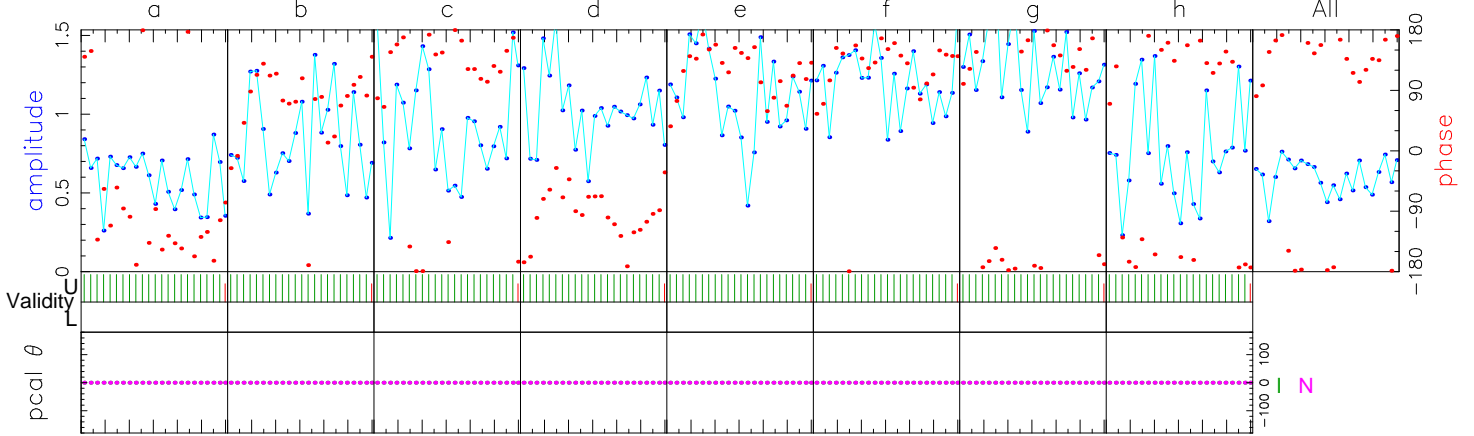


Fringe quality 6

SNR 26.6
Int time 359.635
Amp 0.512
Phase 153.3
PFD 0.0e+00
Delays (us)
SBD 0.019210
MBD -0.007130
Fringe rate (Hz) 0.022711
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145318
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-138.1	79.2	149.2	-91.0	120.3	130.7	166.5	167.7	Phase	153.3
	0.4	0.6	0.7	0.8	0.9	1.0	1.1	0.6	Ampl.	0.8
	260.2	262.2	262.6	262.5	262.5	262.4	261.8	260.1	Sbd box	261.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
I	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-3.17060173244E+03	Apriori delay (usec)	-3.17062585198E+03	Resid mbdelay (usec)	-7.13046E-03	+/-	4.1E-05
Sband delay (usec)	-3.17060664173E+03	Apriori clock (usec)	6.3131294E+00	Resid sbdelay (usec)	1.92102E-02	+/-	3.2E-04
Phase delay (usec)	-3.17062584704E+03	Apriori clockrate (us/s)	-3.4594999E-07	Resid phdelay (usec)	4.94320E-06	+/-	1.4E-07
Delay rate (us/s)	1.23313868130E+00	Apriori rate (us/s)	1.23313841764E+00	Resid rate (us/s)	2.63658E-07	+/-	6.7E-10
Total phase (deg)	-167.1	Apriori accel (us/s/s)	6.53497207972E-06	Resid phase (deg)	153.3	+/-	4.3

ph/seg (deg)	32.0	Theor.	10.3	Amplitude	0.512 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	27.5		18.1	Search (2048X32)	0.500	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	65.3		6.1	Inc. seg. avg.	0.594	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	67.5		10.7	Inc. frq. avg.	0.782	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

I: az 50.3 el 43.0 pa -83.8

N: az 299.0 el 57.3 pa 82.3

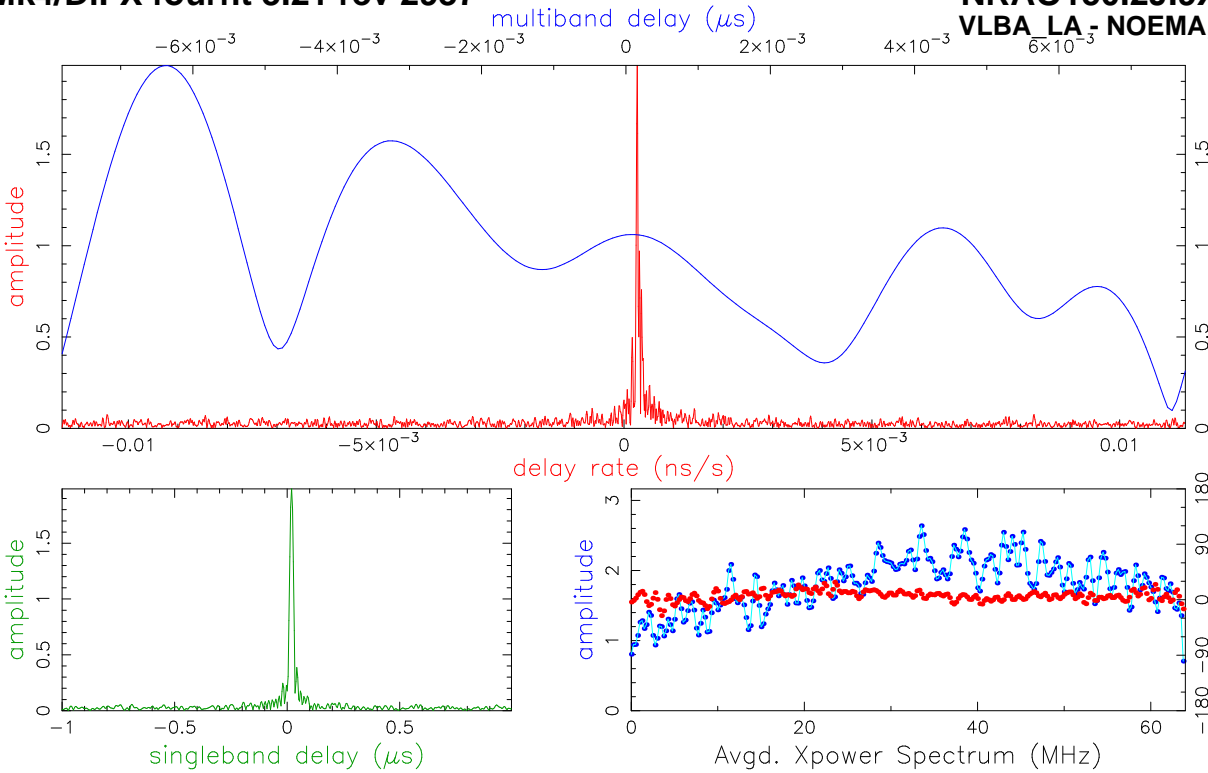
u,v (fr/asec) -11218.033 59.070

simultaneous interpolator

Control file: cf_1234_gmva

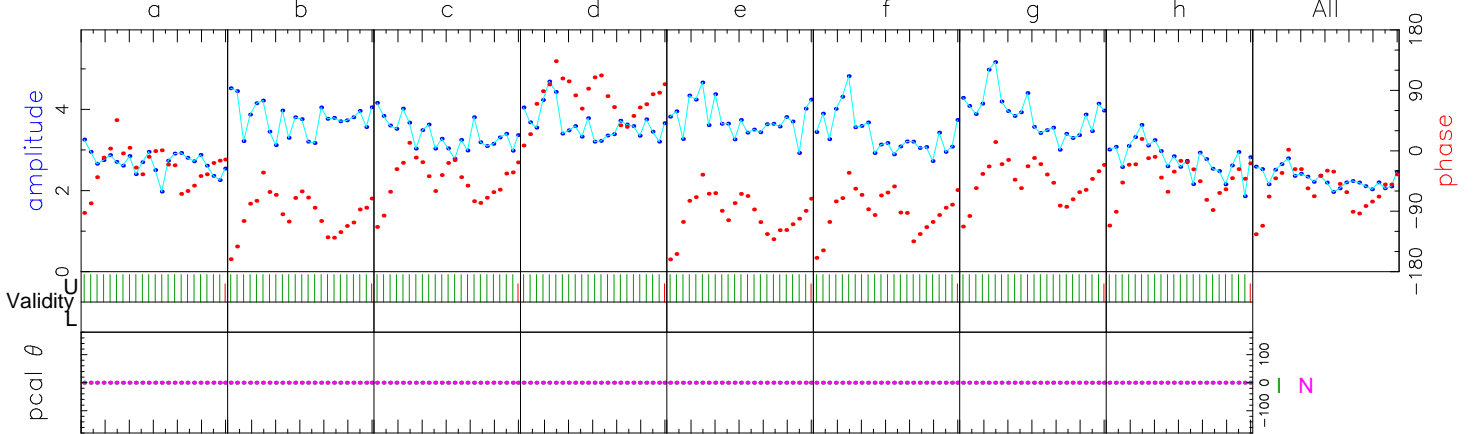
Input file: /Exps/c221d/v1/3mm/3000/No0237/IN...2J19XC

Output file: /Exps/c221d/v1/3mm/3000/No0237/IN.W.71.2J19XC



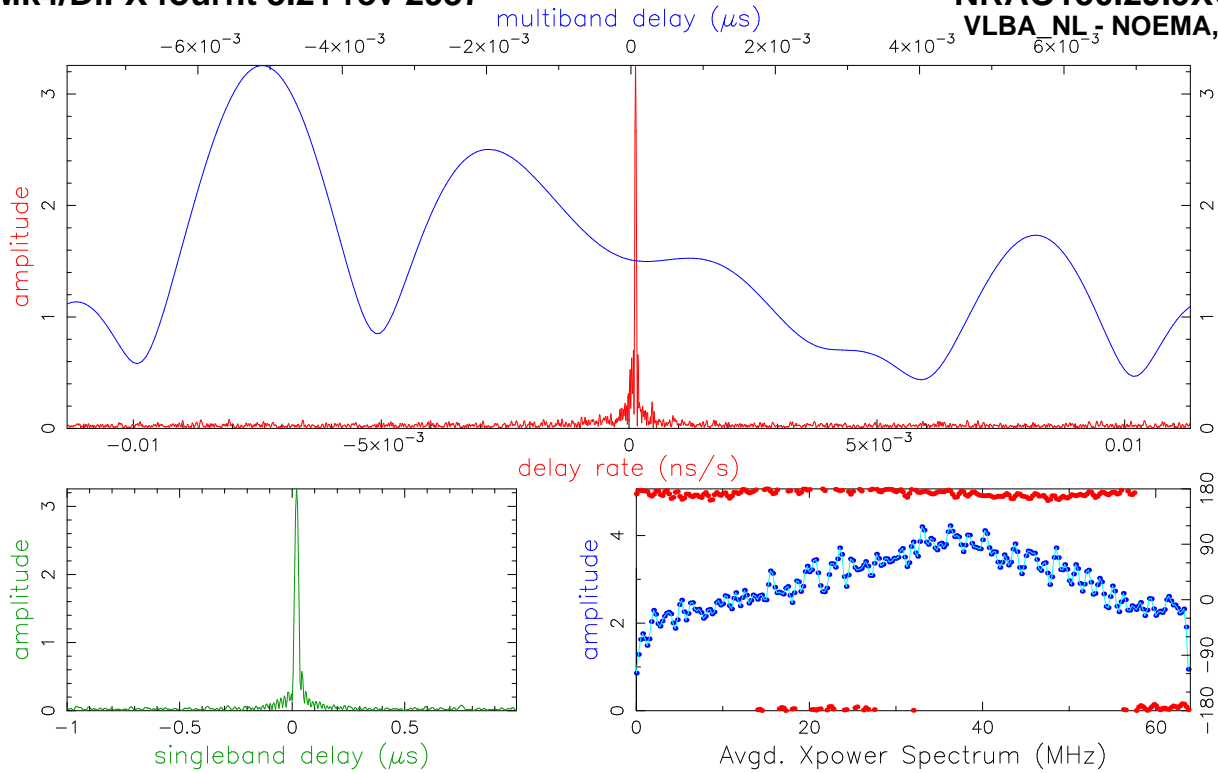
Fringe quality 3
 SNR 103.0
 Int time 359.635
 Amp 1.987
 Phase -56.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.019440
 MBD -0.006379
 Fringe rate (Hz) 0.022717
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c221d
 Exper # 16383
 Yr:day 2022:094
 Start 180000.00
 Stop 180559.94
 FRT 180300.00
 Corr/FF/build
 2023:010:110447
 2023:010:145322
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	-26.3	-94.4	-44.8	77.3	-93.7	-87.8	-42.8	-39.0	Phase	-56.1
	2.3	3.3	2.9	3.1	3.2	2.9	3.4	2.4	Ampl.	2.9
	260.1	262.3	262.8	262.5	262.6	262.6	261.9	260.3	Sbd box	262.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
I	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.17060098088E+03		Apriori delay (usec)		-3.17062585198E+03		Resid mbdelay (usec)		-6.37890E-03	+/- 1.1E-05
Sband delay (usec)	-3.17060641173E+03		Apriori clock (usec)		6.3131294E+00		Resid sbdelay (usec)		1.94403E-02	+/- 8.4E-05
Phase delay (usec)	-3.17062585379E+03		Apriori clockrate (us/s)		-3.4594999E-07		Resid phdelay (usec)		-1.81050E-06	+/- 3.6E-08
Delay rate (us/s)	1.23313868137E+00		Apriori rate (us/s)		1.23313841764E+00		Resid rate (us/s)		2.63726E-07	+/- 1.7E-10
Total phase (deg)			Apriori accel (us/s/s)		6.53497207972E-06		Resid phase (deg)		-56.1	+/- 1.1

ph/seg (deg) 29.4 2.7 Search (2048X32) 1.956 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 18.8 4.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 62.2 1.6 Inc. seg. avg. 2.289 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 51.7 2.7 Inc. frq. avg. 2.946 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 I: az 50.3 el 43.0 pa -83.8 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -11218.033 59.070 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/IN...2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/IN.W.87.2J19XC

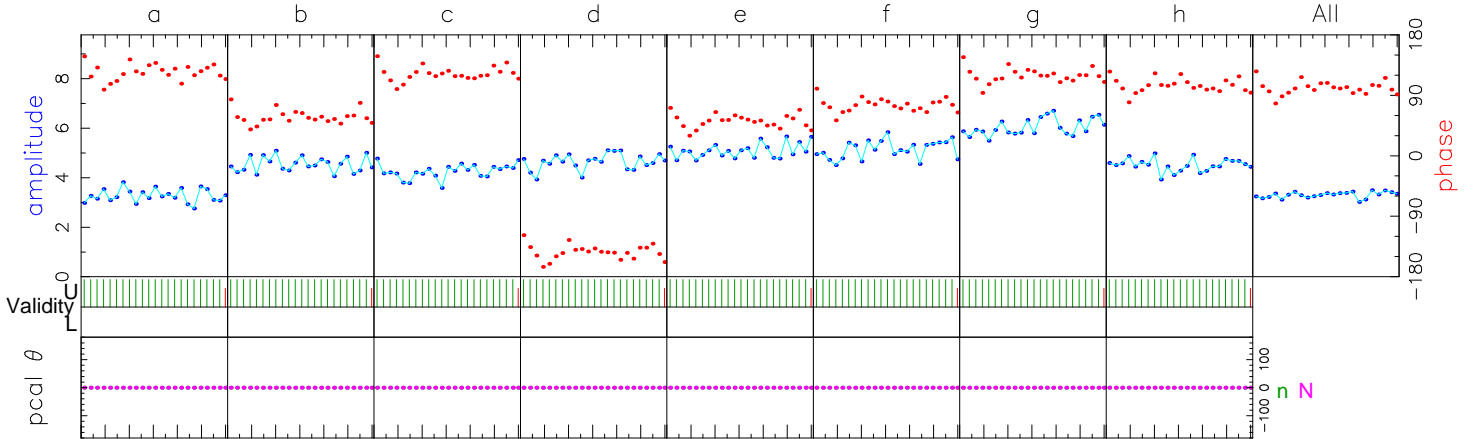


Fringe quality 5

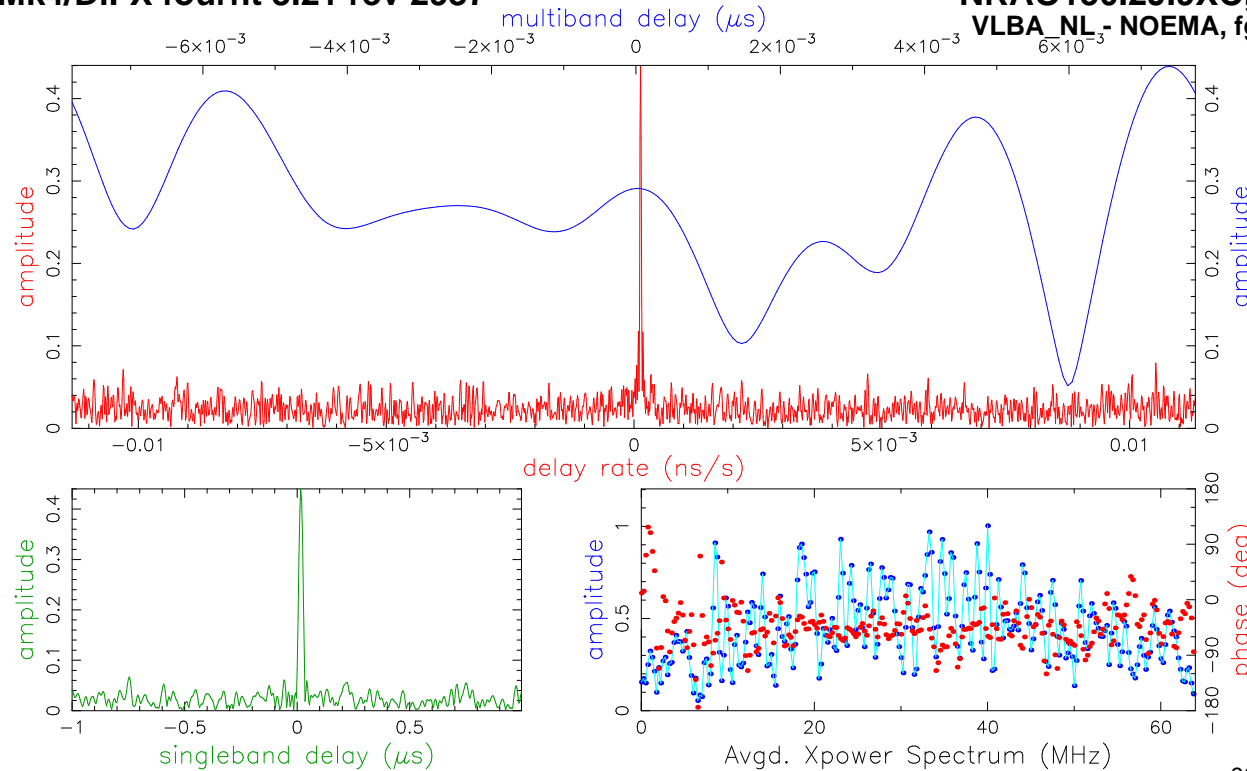
SNR 169.0
Int time 359.896
Amp 3.257
Phase 101.2
PFD 0.0e+00
Delays (us)
SBD 0.019785
MBD -0.005100
Fringe rate (Hz) 0.011926
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c221d
Yr:day 16383
2023:010:110447
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:145311
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0			
n	0	0	0	0	0	0	0	0	Ampl.	4.6	
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	262.1	
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used		
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
N	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC phase		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Mani PC		
									PC amp		
Group delay (usec)(sbd)	-1.04752172993E+02								Resid mbdelay (usec)	-5.10016E-03	+/- 6.4E-06
Sband delay (usec)	-1.04758537582E+02								Resid sbdelay (usec)	1.97852E-02	+/- 5.1E-05
Phase delay (usec)	-1.04778319569E+02								Resid phdelay (usec)	3.26266E-06	+/- 2.2E-08
Delay rate (us/s)	1.07061129519E+00								Resid rate (us/s)	1.38453E-07	+/- 1.1E-10
Total phase (deg)			-161.2						Resid phase (deg)	101.2	+/- 0.7
RMS	9.9	1.6							PCal mode: MANUAL, MANUAL		
ph/seg (deg)	9.9	1.6	Search (2048X32)	3.010					PCal rate: 0.000E+00, 0.000E+00 (us/s)		
amp/seg (%)	4.0	2.8	Interp.	0.000					SampCntNorm: enabled		
ph/frq (deg)	57.3	1.0	Inc. seg. avg.	3.304					Sample rate(MISamp/s): 128		
amp/frq (%)	47.4	1.7	Inc. frq. avg.	4.613					Data rate(Mb/s): 2048		
n: az 57.3 el 55.8 pa -85.9			N: az 299.0 el 57.3 pa 82.3						nlags: 256		
Control file: cf_1234_gmva			Input file: /Exps/c221d/v1/3mm/3000/No0237/nN..2JI9XC						t_cohere infinite		
			Output file: /Exps/c221d/v1/3mm/3000/No0237/nN.W.117.2JI9XC						ion window (TEC)	0.00	0.00

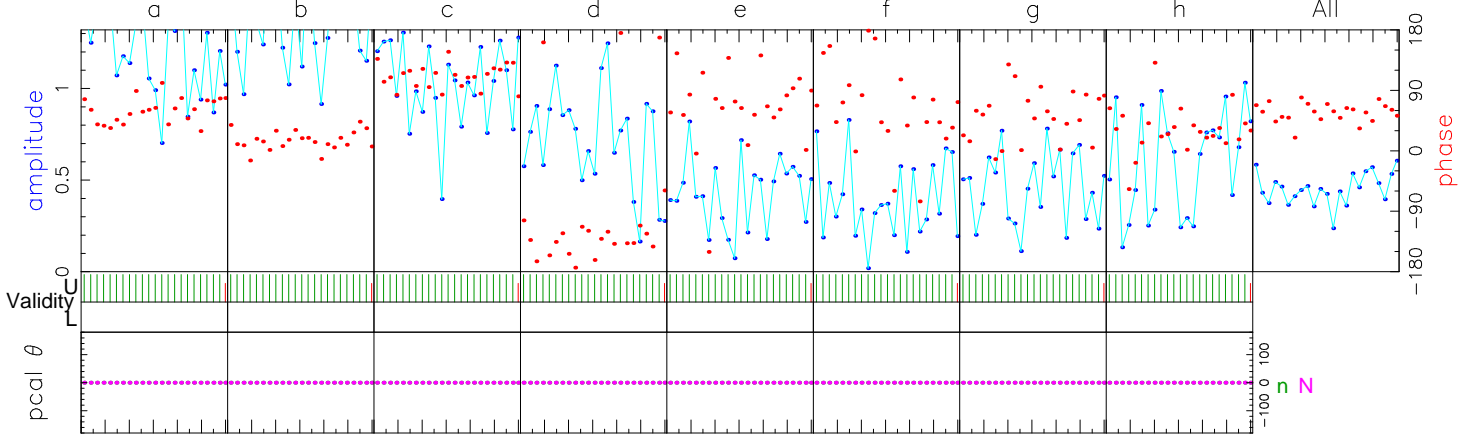


Fringe quality 7

SNR 22.8
Int time 359.896
Amp 0.440
Phase 57.0
PFD 0.0e+00
Delays (us)
SBD 0.016389
MBD 0.007406
Fringe rate (Hz)
0.011826
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145315
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

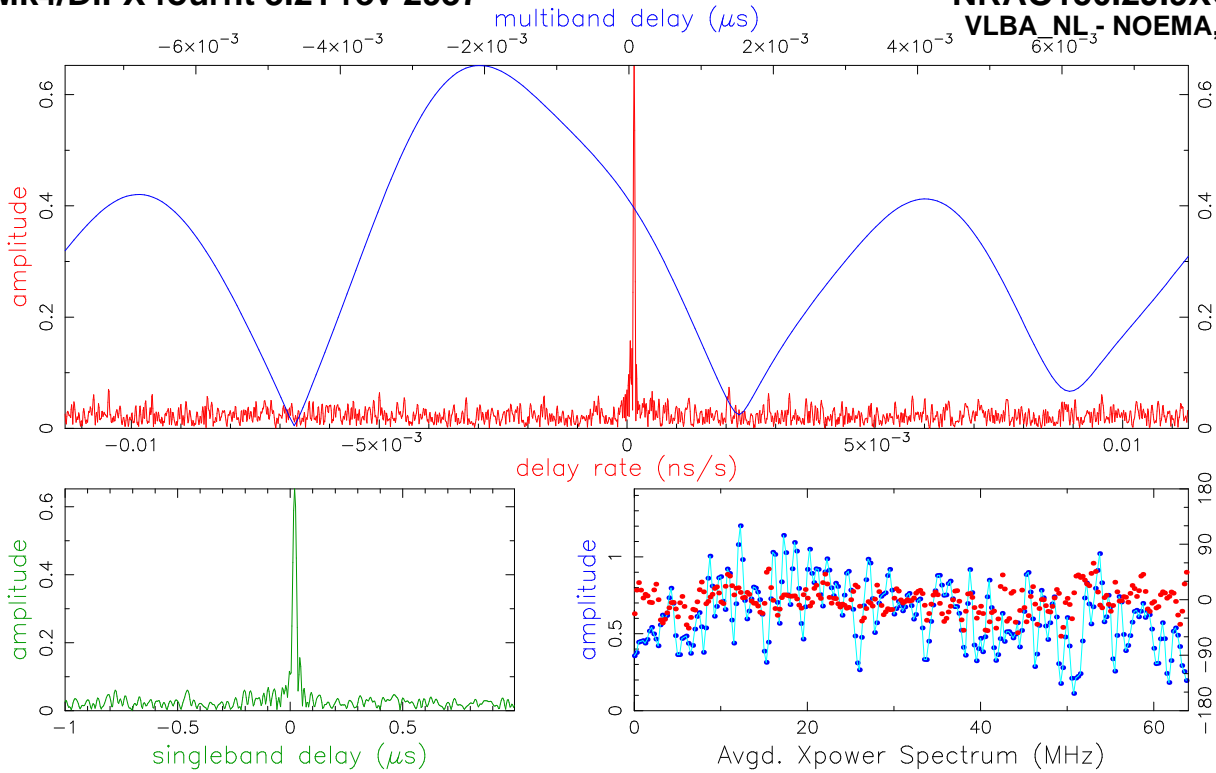


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	59.4	15.7	111.4	-141.3	76.4	67.0	46.9	28.2	Phase	57.0
	1.1	1.3	1.0	0.7	0.3	0.3	0.4	0.5	Ampl.	0.7
	259.9	261.9	262.4	262.2	262.1	261.4	261.3	259.4	Sbd box	261.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
n	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-1.047755292296E+02	Apriori delay (usec)	-1.04778322832E+02	Resid mbdelay (usec)	7.40554E-03	+/-	4.8E-05
Sband delay (usec)	-1.04761934082E+02	Apriori clock (usec)	3.0181576E+01	Resid sbdelay (usec)	1.63887E-02	+/-	3.8E-04
Phase delay (usec)	-1.04778320992E+02	Apriori clockrate (us/s)	3.2222001E-07	Resid phdelay (usec)	1.83969E-06	+/-	1.6E-07
Delay rate (us/s)	1.07061129403E+00	Apriori rate (us/s)	1.07061115674E+00	Resid rate (us/s)	1.37289E-07	+/-	7.8E-10
Total phase (deg)	-205.3	Apriori accel (us/s/s)	-2.50134710692E-06	Resid phase (deg)	57.0	+/-	5.0

ph/seg (deg)	13.9	Theor.	12.0	Amplitude	0.440 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	19.1		21.0	Search (2048X32)	0.422	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	73.3		7.1	Inc. seg. avg.	0.442	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	104.0		12.4	Inc. frq. avg.	0.699	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	dr window (ns/s)	-0.011 0.011
n: az 57.3 el 55.8 pa -85.9		N: az 299.0 el 57.3 pa 82.3		u, v (fr/asec)	-9751.603 -375.553	nlags:	256	t_cohere	infinite	ion window (TEC)	0.00 0.00

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/nN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/nN.W.147.2J19XC simultaneous interpolator

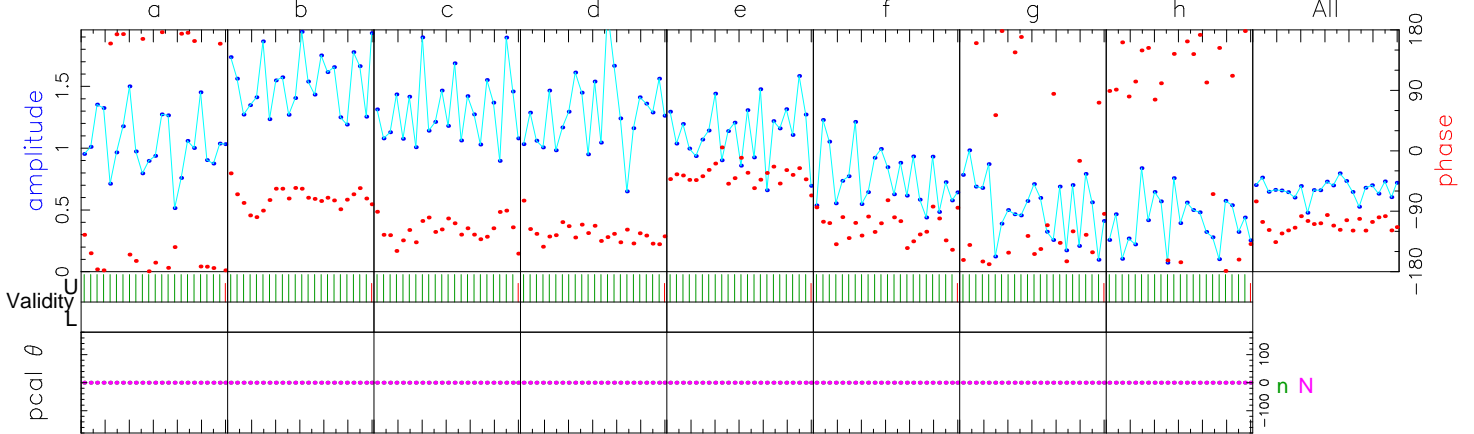


Fringe quality 5

SNR 33.9
Int time 359.896
Amp 0.653
Phase -109.0
PFD 0.0e+00
Delays (us)
SBD 0.019764
MBD -0.002068
Fringe rate (Hz)
0.011974
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

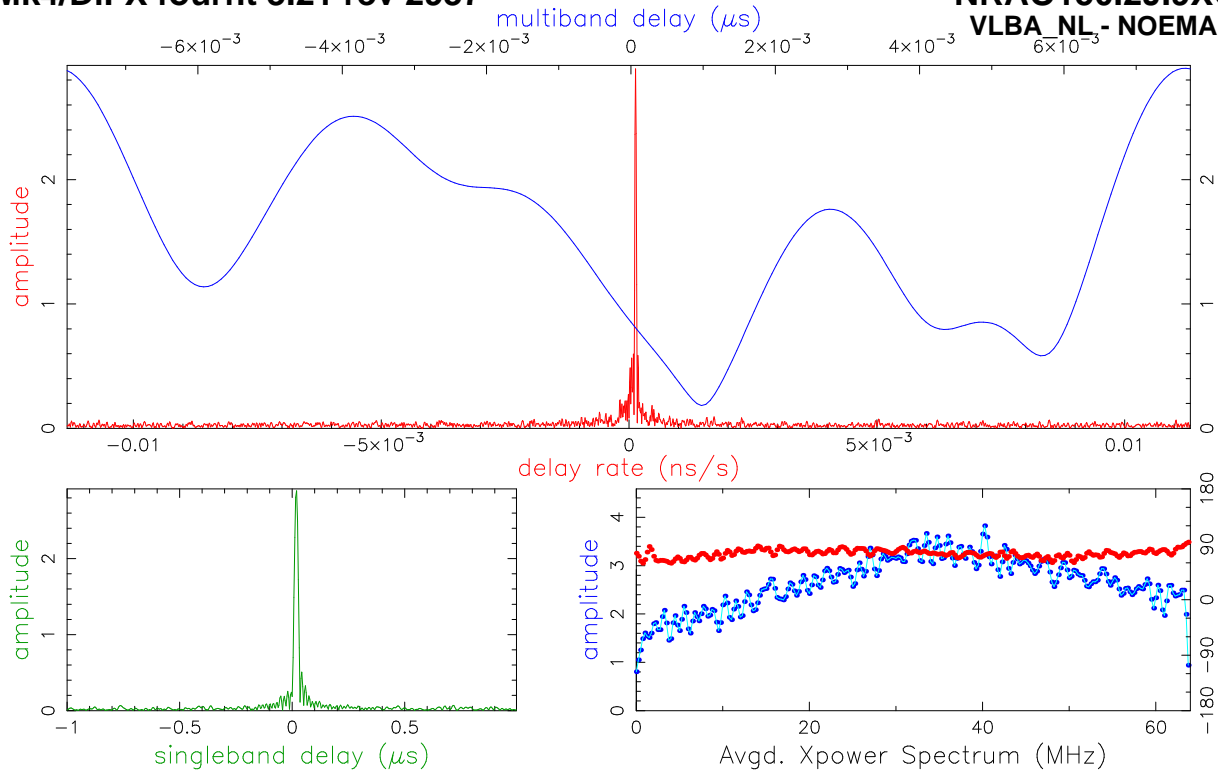
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145318
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	-175.3	-69.7	-116.5	-123.7	-35.0	-111.2	-153.9	141.1	Phase	-109.0
	1.0	1.5	1.3	1.3	1.1	0.7	0.4	0.3	Ampl.	0.9
	259.8	262.2	262.6	262.8	262.5	262.4	262.1	260.9	Sbd box	262.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
n	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.04764766056E+02		Apriori delay (usec)		-1.04778322832E+02		Resid mbdelay (usec)		-2.06822E-03	+/- 3.2E-05
Sband delay (usec)	-1.04758558582E+02		Apriori clock (usec)		3.0181576E+01		Resid sbdelay (usec)		1.97643E-02	+/- 2.5E-04
Phase delay (usec)	-1.04778326346E+02		Apriori clockrate (us/s)		3.2222001E-07		Resid phdelay (usec)		-3.51434E-06	+/- 1.1E-07
Delay rate (us/s)	1.07061129575E+00		Apriori rate (us/s)		1.07061115674E+00		Resid rate (us/s)		1.39012E-07	+/- 5.3E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.50134710692E-06		Resid phase (deg)		-109.0	+/- 3.4

ph/seg (deg) 12.1 8.1 Search (2048X32) 0.623 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 11.0 14.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 65.6 4.8 Inc. seg. avg. 0.661 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 74.9 8.4 Inc. frq. avg. 0.938 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 57.3 el 55.8 pa -85.9 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -9751.603 -375.553 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/nN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/nN.W.173.2J19XC

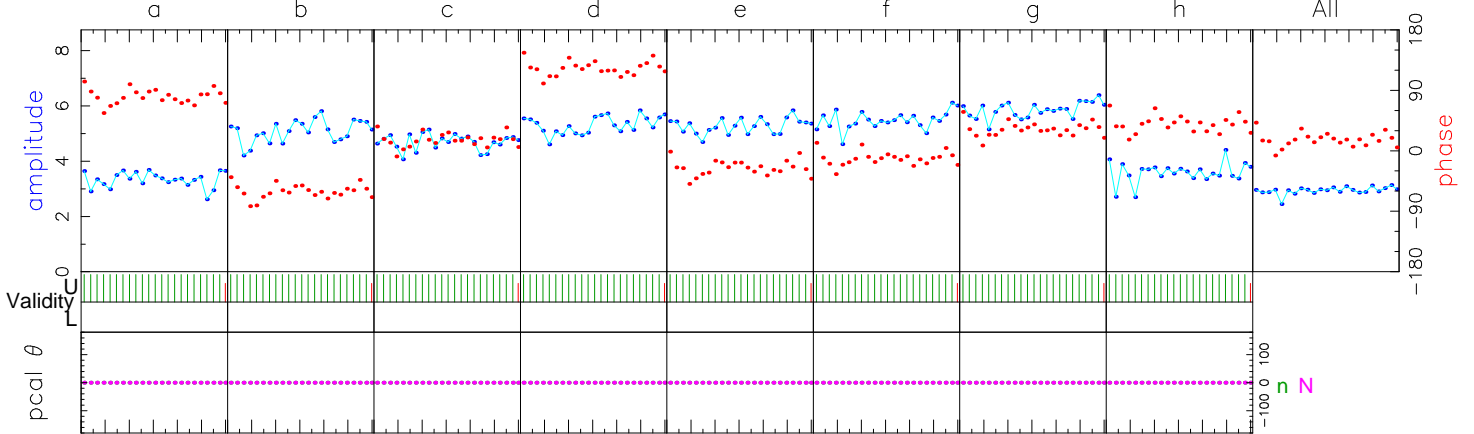


Fringe quality 5

SNR 151.4
Int time 359.896
Amp 2.918
Phase 16.8
PFD 0.0e+00
Delays (us)
SBD 0.018253
MBD -0.008012
Fringe rate (Hz) 0.011916
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145308
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
n	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.04755085233E+02									
Sband delay (usec)	-1.04760070082E+02									
Phase delay (usec)	-1.04778322289E+02									
Delay rate (us/s)	1.07061129507E+00									
Total phase (deg)		-245.5								
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)										
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) 10.3 1.8
amp/seg (%) 4.7 3.2
ph/frq (deg) 64.1 1.1
amp/frq (%) 69.0 1.9

RMS Theor. Amplitude 2.918 +/- 0.019
Search (2048X32) 2.724
Interp. 0.000
Inc. seg. avg. 2.937
Inc. frq. avg. 4.746

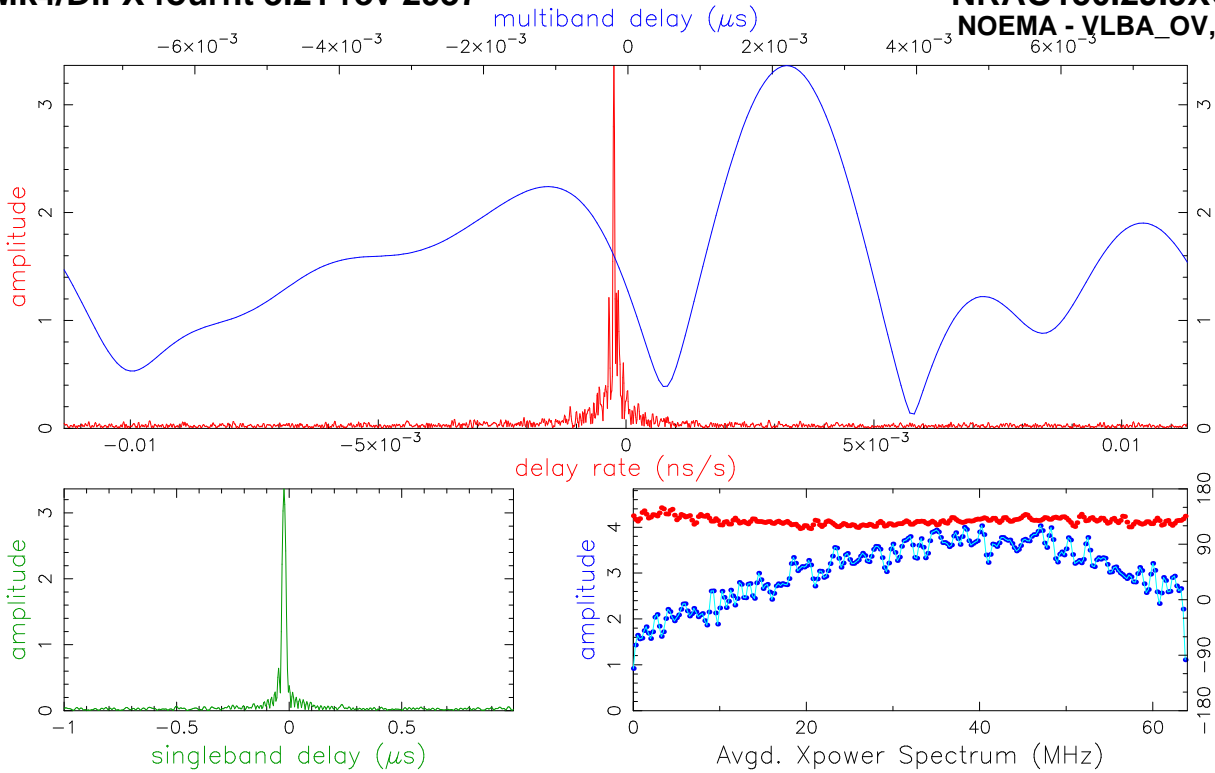
PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
SampCntNorm: enabled mb window (us) -0.008 0.008
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

n: az 57.3 el 55.8 pa -85.9 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -9751.603 -375.553 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/nN..2JI9XC Output file: /Exps/c221d/v1/3mm/3000/No0237/nN.W.89.2JI9XC

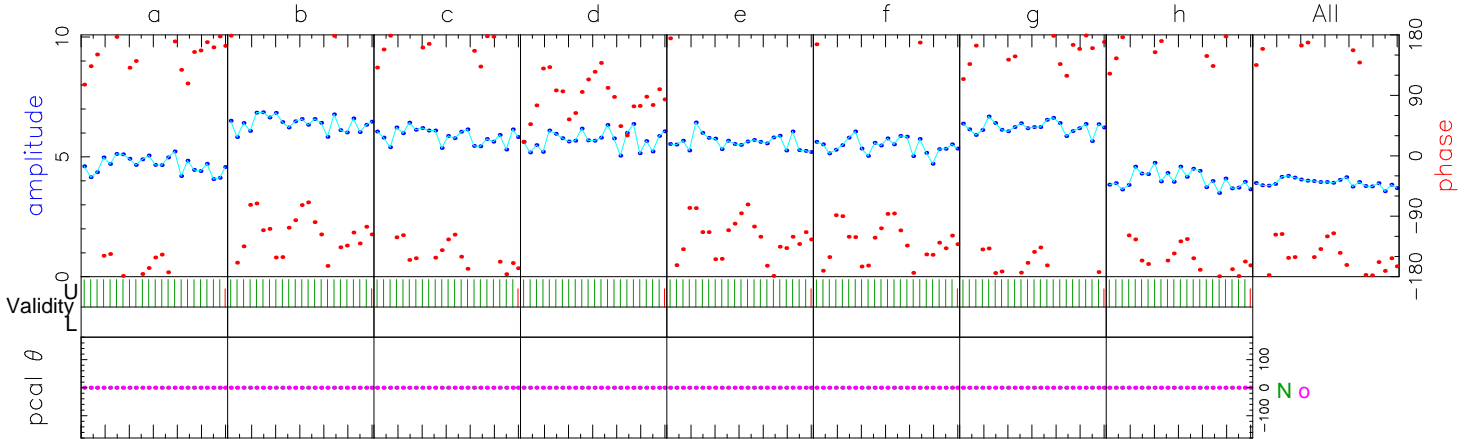
Mk4/DiFX fourfit 3.21 rev 2937

NRAO150.2JI9XC, No0237, No
NOEMA - VLBA_OV, fgroup W, pol RR



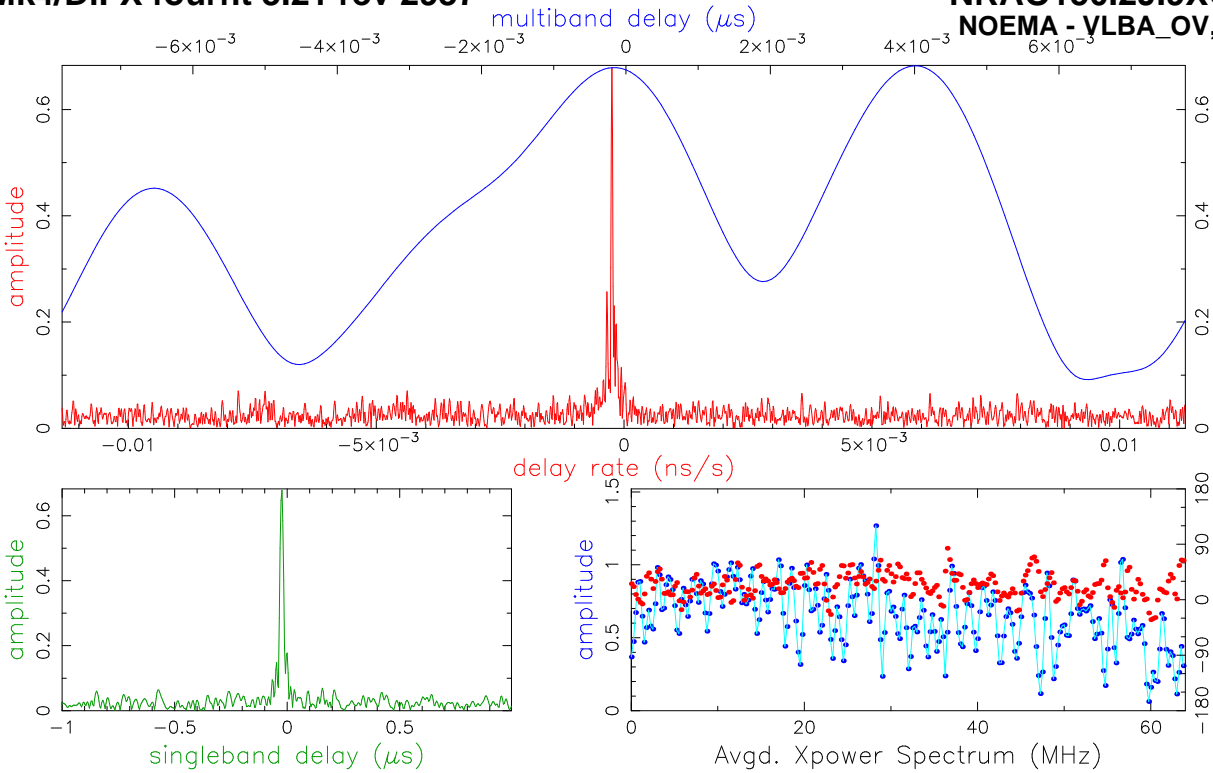
Fringe quality 3
 SNR 174.5
 Int time 359.631
 Amp 3.365
 Phase -163.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.023096
 MBD 0.002214
 Fringe rate (Hz)
 -0.021376
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c221d
 Exper # 16383
 Yr:day 2022:094
 Start 180000.00
 Stop 180559.94
 FRT 180300.00
 Corr/FF/build
 2023:010:110447
 2023:010:145311
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	167.3	-120.5	-167.1	85.4	-124.6	-133.4	174.6	-169.7	Phase	-163.9
	4.0	5.4	5.0	4.9	4.8	4.7	5.4	3.5	Ampl.	4.7
	252.9	250.6	250.3	250.4	250.4	250.4	251.2	253.0	Sbd box	251.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
N:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	5.00034448868E+03		Apriori delay (usec)		5.00037352518E+03		Resid mbdelay (usec)		2.21350E-03	+/- 6.2E-06
Sband delay (usec)	5.00035042868E+03		Apriori clock (usec)		-1.8046520E+01		Resid sbdelay (usec)		-2.30965E-02	+/- 4.9E-05
Phase delay (usec)	5.00037351990E+03		Apriori clockrate (us/s)		-1.9040000E-07		Resid phdelay (usec)		-5.28412E-06	+/- 2.1E-08
Delay rate (us/s)	-1.27905686855E+00		Apriori rate (us/s)		-1.27905662040E+00		Resid rate (us/s)		-2.48150E-07	+/- 1.0E-10
Total phase (deg)	1.5		Apriori accel (us/s/s)		-1.81126572050E-05		Resid phase (deg)		-163.9	+/- 0.7

ph/seg (deg) 31.6 1.6 Amplitude 3.365 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 17.5 2.7 Search (2048X32) 3.172 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 54.7 0.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.0 1.6 Inc. seg. avg. 3.929 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 N: az 299.0 el 57.3 pa 82.3 o: az 49.3 el 36.6 pa -73.5 u,v (fr/asec) 11620.798 -1299.661 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/No..2JI9XC Output file: /Exps/c221d/v1/3mm/3000/No0237/No.W.111.2JI9XC simultaneous interpolator

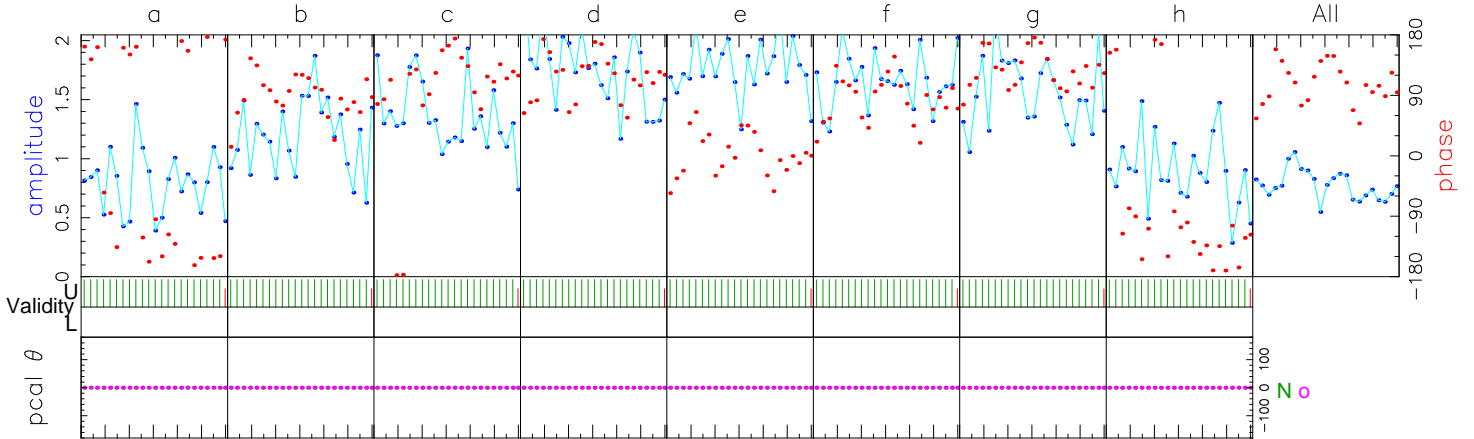


Fringe quality 4

SNR 35.4
Int time 359.631
Amp 0.683
Phase 106.2
PFD 0.0e+00
Delays (us)
SBD -0.024412
MBD -0.000179
Fringe rate (Hz)
-0.021339
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

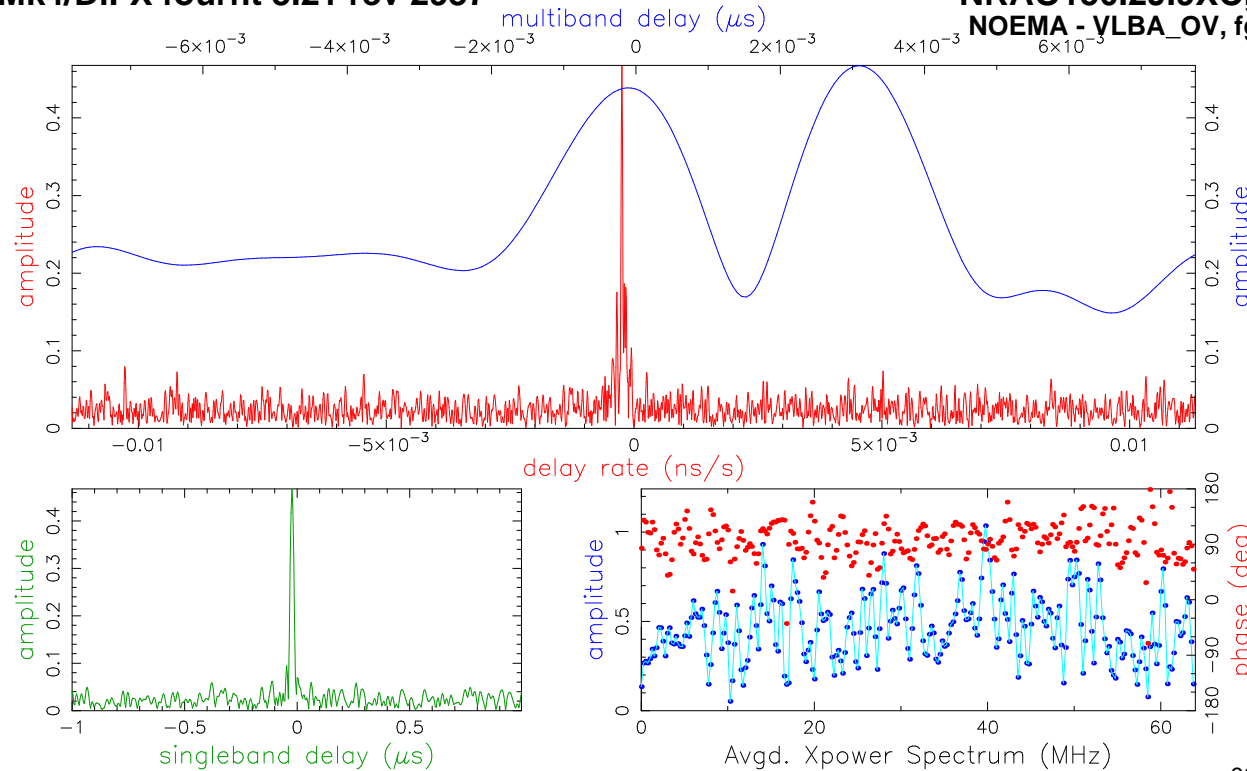
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145314
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	-160.8	89.5	121.1	114.6	1.7	83.3	127.9	-140.2	Phase	106.2
	0.6	1.0	1.2	1.4	1.5	1.4	1.4	0.7	Ampl.	1.2
	252.7	251.0	250.7	250.8	250.8	250.8	251.4	253.3	Sbd box	250.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
N:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	5.00034209640E+03		Apriori delay (usec)		5.00037352518E+03		Resid mbdelay (usec)		-1.78780E-04	+/- 3.1E-05
Sband delay (usec)	5.00034911293E+03		Apriori clock (usec)		-1.8046520E+01		Resid sbdelay (usec)		-2.44123E-02	+/- 2.4E-04
Phase delay (usec)	5.00037352861E+03		Apriori clockrate (us/s)		-1.9040000E-07		Resid phdelay (usec)		3.42603E-06	+/- 1.0E-07
Delay rate (us/s)	-1.27905686812E+00		Apriori rate (us/s)		-1.27905662040E+00		Resid rate (us/s)		-2.47729E-07	+/- 5.0E-10
Total phase (deg)			Apriori accel (us/s/s)		-1.81126572050E-05		Resid phase (deg)		106.2	+/- 3.2

ph/seg (deg) 30.1 7.8 Search (2048X32) 0.656 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 22.5 13.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 75.3 4.6 Inc. seg. avg. 0.770 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 84.2 8.0 Inc. frq. avg. 1.158 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
N: az 299.0 el 57.3 pa 82.3 o: az 49.3 el 36.6 pa -73.5 u,v (fr/asec) 11620.798 -1299.661 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/No..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/No.W.137.2J19XC

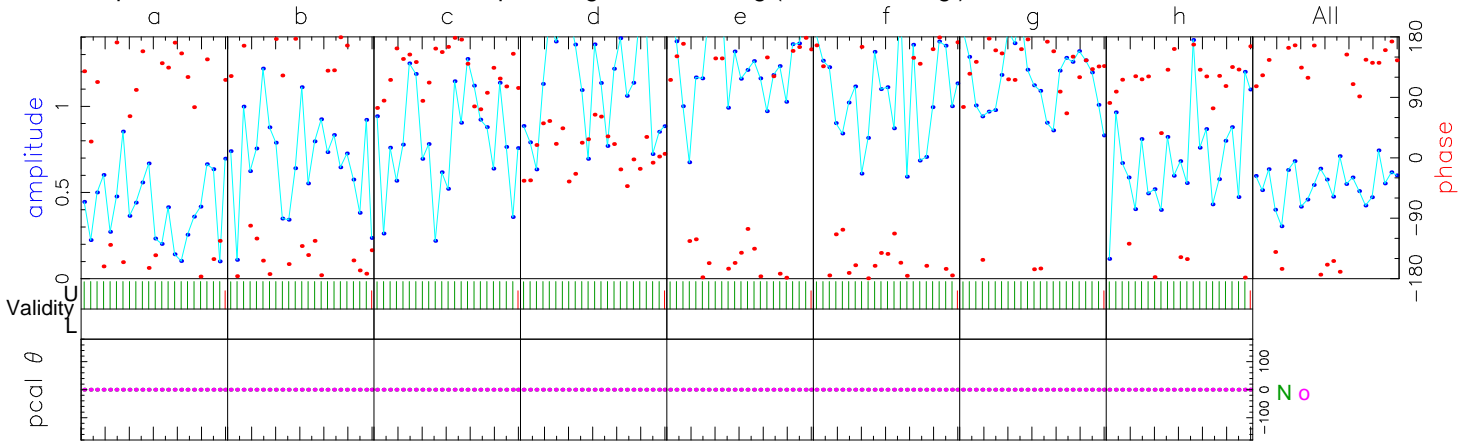


Fringe quality 6

SNR 24.2
Int time 359.632
Amp 0.468
Phase 155.7
PFD 0.0e+00
Delays (us)
SBD -0.023056
MBD 0.003106
Fringe rate (Hz)
-0.021281
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145317
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'59.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

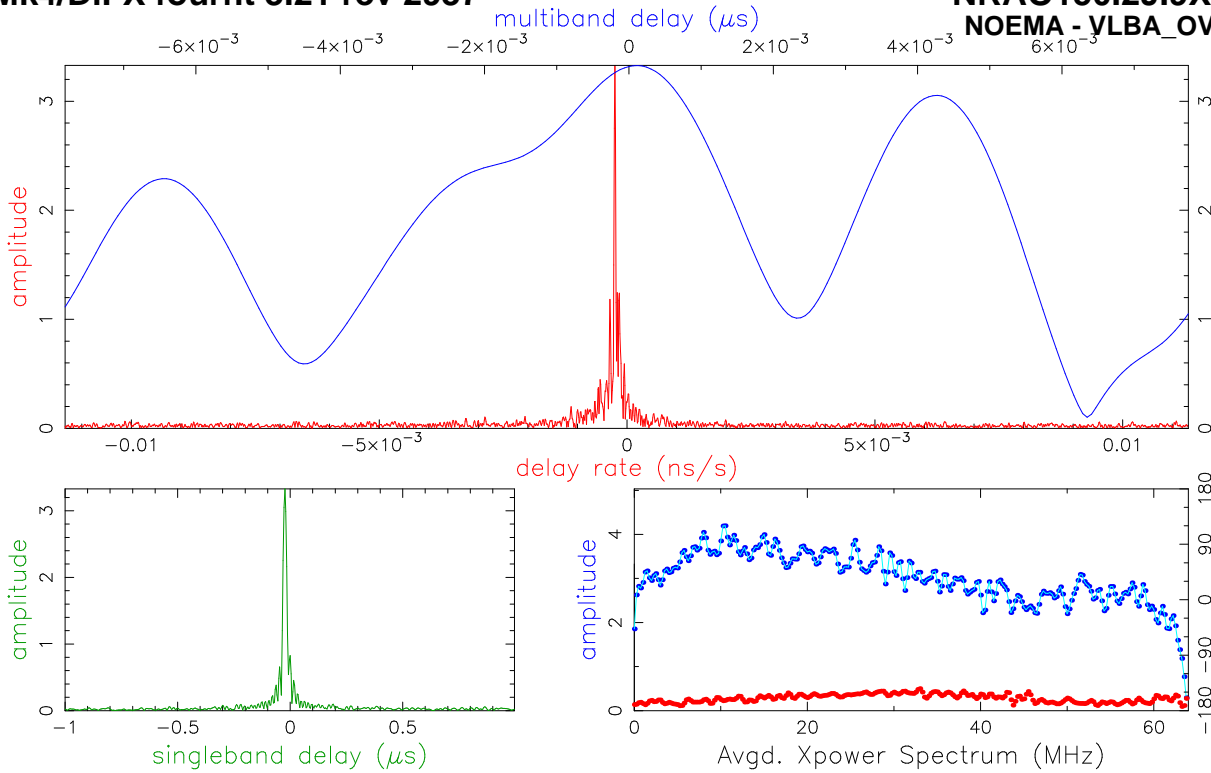


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	159.3	-171.4	126.6	11.8	178.7	-170.9	142.2	141.9	Phase	155.7
	0.3	0.6	0.7	1.0	1.0	0.9	1.0	0.5	Ampl.	0.7
	253.2	250.9	250.3	250.9	251.0	250.7	251.1	252.6	Sbd box	251.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
N:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	5.00034538075E+03		Apriori delay (usec)		5.00037352518E+03		Resid mbdelay (usec)		3.10556E-03	+/- 4.5E-05
Sband delay (usec)	5.00035046868E+03		Apriori clock (usec)		-1.8046520E+01		Resid sbdelay (usec)		-2.30565E-02	+/- 3.6E-04
Phase delay (usec)	5.00037353020E+03		Apriori clockrate (us/s)		-1.9040000E-07		Resid phdelay (usec)		5.02039E-06	+/- 1.5E-07
Delay rate (us/s)	-1.27905686745E+00		Apriori rate (us/s)		-1.27905662040E+00		Resid rate (us/s)		-2.47053E-07	+/- 7.3E-10
Total phase (deg)			Apriori accel (us/s/s)		-1.81126572050E-05		Resid phase (deg)		155.7	+/- 4.7

ph/seg (deg) 33.4 11.3 Amplitude 0.468 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 28.5 19.8 Search (2048X32) 0.447 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 64.1 6.7 Inc. seg. avg. 0.538 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 78.6 11.7 Inc. frq. avg. 0.734 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 N: az 299.0 el 57.3 pa 82.3 o: az 49.3 el 36.6 pa -73.5 u,v (fr/asec) 11620.798 -1299.661 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/No..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/No.W.164.2J19XC

Mk4/DiFX fourfit 3.21 rev 2937

NRAO150.2J19XC, No0237, No
NOEMA - VLBA_OV, fgroup W, pol LL

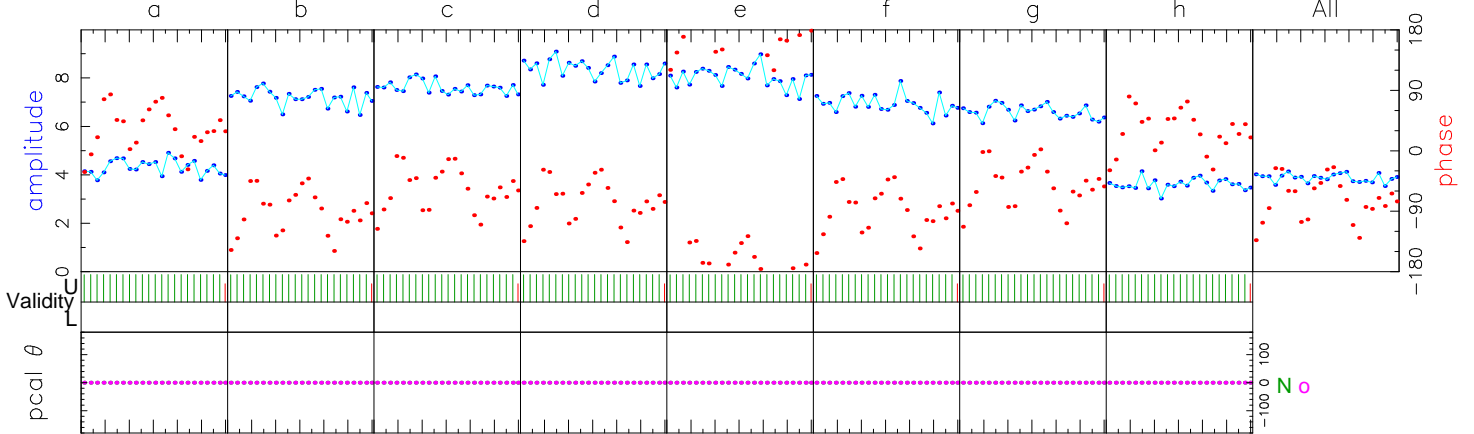


Fringe quality 3

SNR 172.6
Int time 359.632
Amp 3.329
Phase -72.9
PFD 0.0e+00
Delays (us)
SBD -0.023645
MBD 0.000101
Fringe rate (Hz)
-0.021356
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

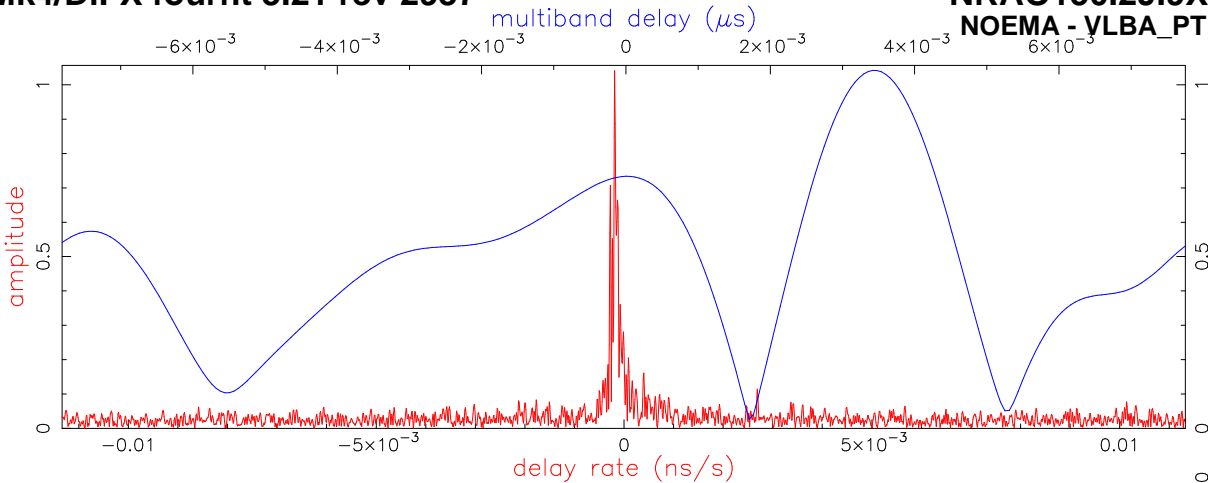
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145308
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



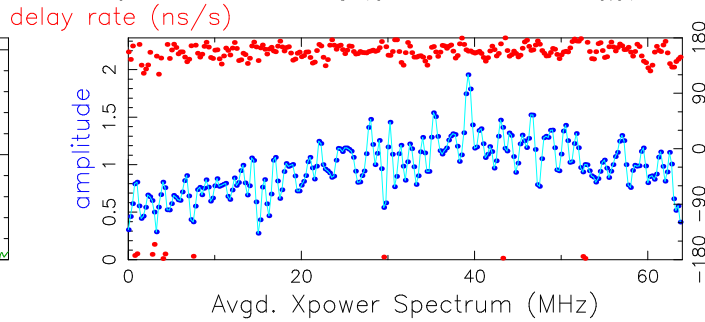
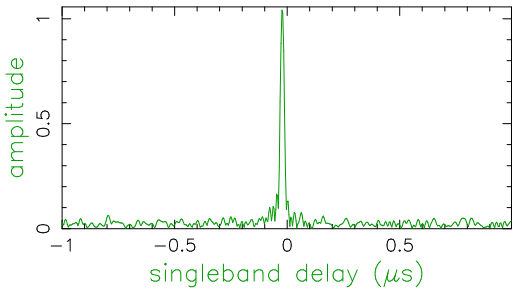
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	32.4	-90.7	-56.7	-76.7	-179.7	-89.1	-50.3	29.4	Phase	-72.9
	3.7	6.2	6.6	7.2	6.9	5.9	5.6	3.1	Ampl.	5.7
	253.0	251.4	250.6	250.9	251.0	250.9	251.4	253.2	Sbd box	250.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
o	0	0	0	0	0	0	0	0	PC freqs	
N:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	5.00034237665E+03		Apriori delay (usec)		5.00037352518E+03		Resid mbdelay (usec)		1.01470E-04	+/- 6.3E-06
Sband delay (usec)	5.00034988018E+03		Apriori clock (usec)		-1.8046520E+01		Resid sbdelay (usec)		-2.36450E-02	+/- 5.0E-05
Phase delay (usec)	5.00037352283E+03		Apriori clockrate (us/s)		-1.9040000E-07		Resid phdelay (usec)		-2.35089E-06	+/- 2.1E-08
Delay rate (us/s)	-1.27905686832E+00		Apriori rate (us/s)		-1.27905662040E+00		Resid rate (us/s)		-2.47920E-07	+/- 1.0E-10
Total phase (deg)			Apriori accel (us/s/s)		-1.81126572050E-05		Resid phase (deg)		-72.9	+/- 0.7

ph/seg (deg) 31.4 1.6 Theor. Amplitude 3.329 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 17.2 2.8 Search (2048X32) 3.198 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 75.6 0.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 81.2 1.6 Inc. seg. avg. 3.875 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 N: az 299.0 el 57.3 pa 82.3 o: az 49.3 el 36.6 pa -73.5 u,v (fr/asec) 11620.798 -1299.661 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/No..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/No.W.83.2J19XC simultaneous interpolator



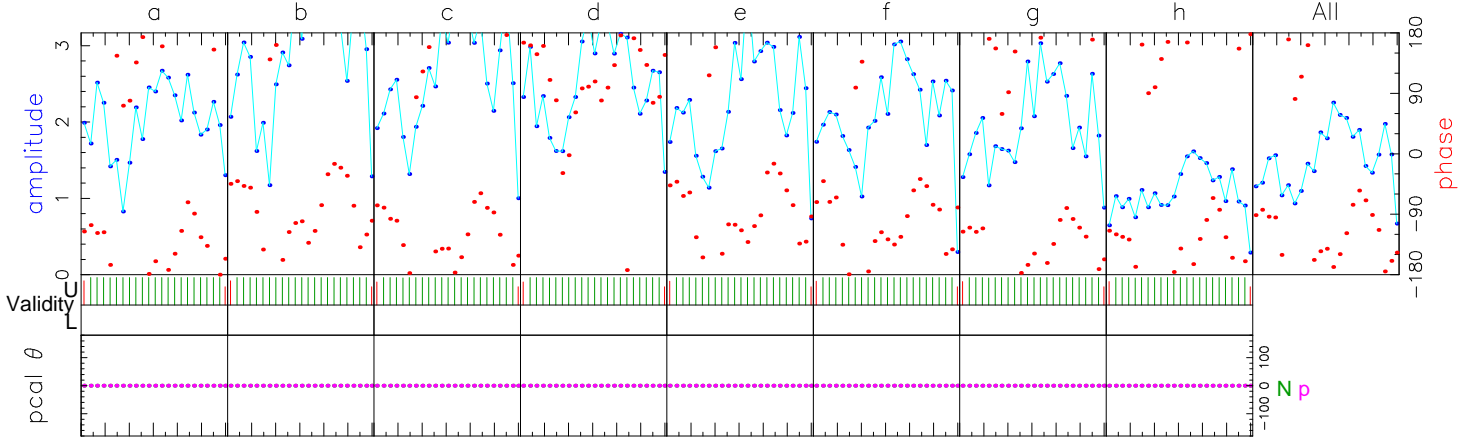
Fringe quality 1

SNR 54.6
Int time 357.253
Amp 1.057
Phase -131.2
PFD 0.0e+00
Delays (us)
SBD -0.021807
MBD 0.003501
Fringe rate (Hz)
-0.015939
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



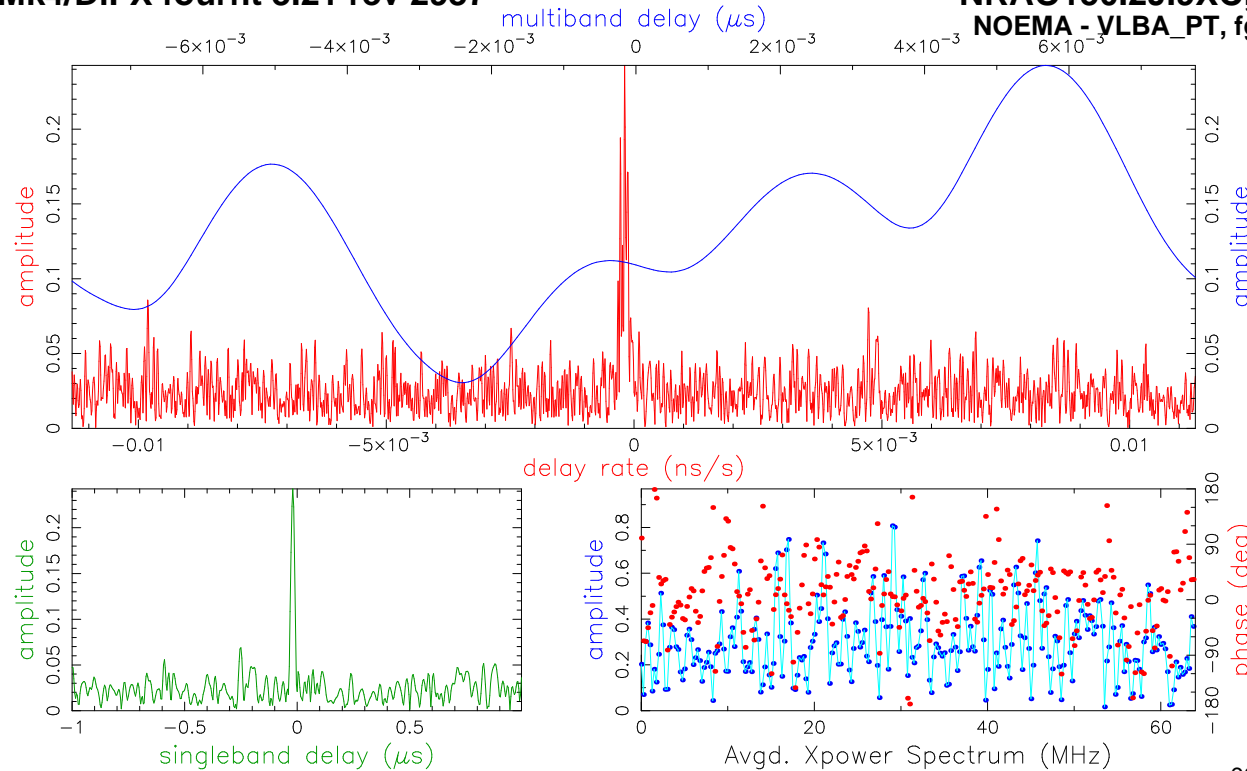
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145313
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	-154.6	-88.1	-132.7	120.3	-92.1	-105.3	-149.3	-153.4	Phase	-131.2
	1.4	1.9	1.8	1.8	1.5	1.4	1.3	0.7	Ampl.	1.5
	253.1	250.9	250.6	250.8	250.6	250.9	251.3	253.3	Sbd box	251.4
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.74536333054E+03		Apriori delay (usec)		3.74539107924E+03		Resid mbdelay (usec)		3.50130E-03	+/- 2.0E-05
Sband delay (usec)	3.74536927274E+03		Apriori clock (usec)		-1.2183800E+01		Resid sbdelay (usec)		-2.18065E-02	+/- 1.6E-04
Phase delay (usec)	3.74539107501E+03		Apriori clockrate (us/s)		-3.3779000E-08		Resid phdelay (usec)		-4.23243E-06	+/- 6.8E-08
Delay rate (us/s)	-1.25765992341E+00		Apriori rate (us/s)		-1.25765973838E+00		Resid rate (us/s)		-1.85034E-07	+/- 3.3E-10
Total phase (deg)	72.4		Apriori accel (us/s/s)		-7.77862632479E-06		Resid phase (deg)		-131.2	+/- 2.1

	RMS	Theor.	Amplitude	1.057 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	55.7	5.0	Search (2048X32)	1.021	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	58.0	8.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	53.5	3.0	Inc. seg. avg.	1.524	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	52.2	5.2	Inc. frq. avg.	1.483	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
N: az 299.0 el 57.3 pa 82.3	p: az 49.1 el 40.9 pa -84.0		u,v (fr/asec) 11439.301 -64.310		simultaneous interpolator	

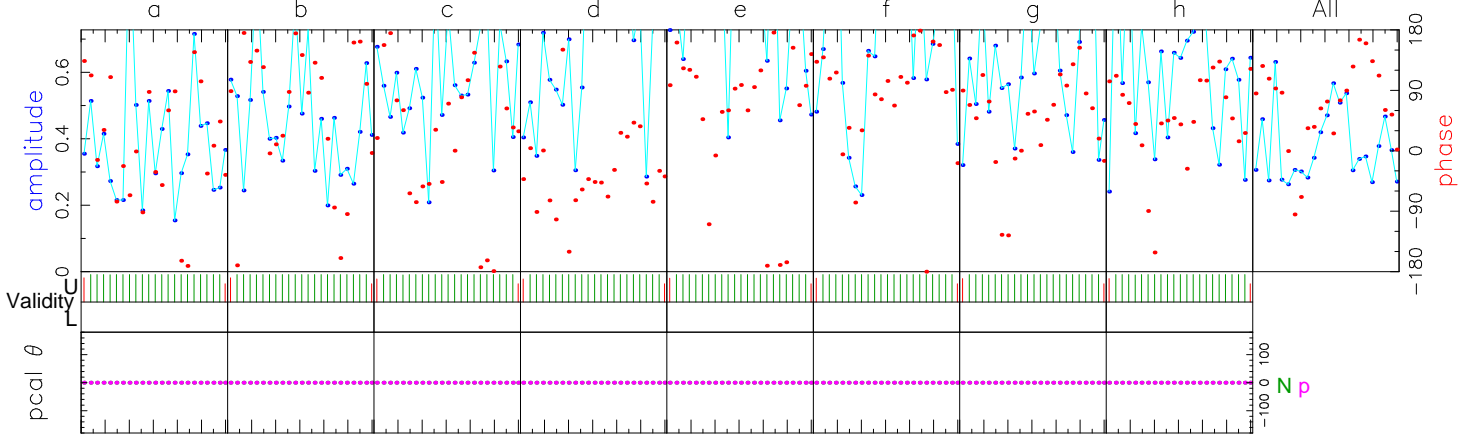


Fringe quality 9

SNR 12.5
Int time 357.253
Amp 0.243
Phase 79.9
PFD 2.5e-27
Delays (us)
SBD -0.019545
MBD 0.005681
Fringe rate (Hz)
-0.016441
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145316
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec

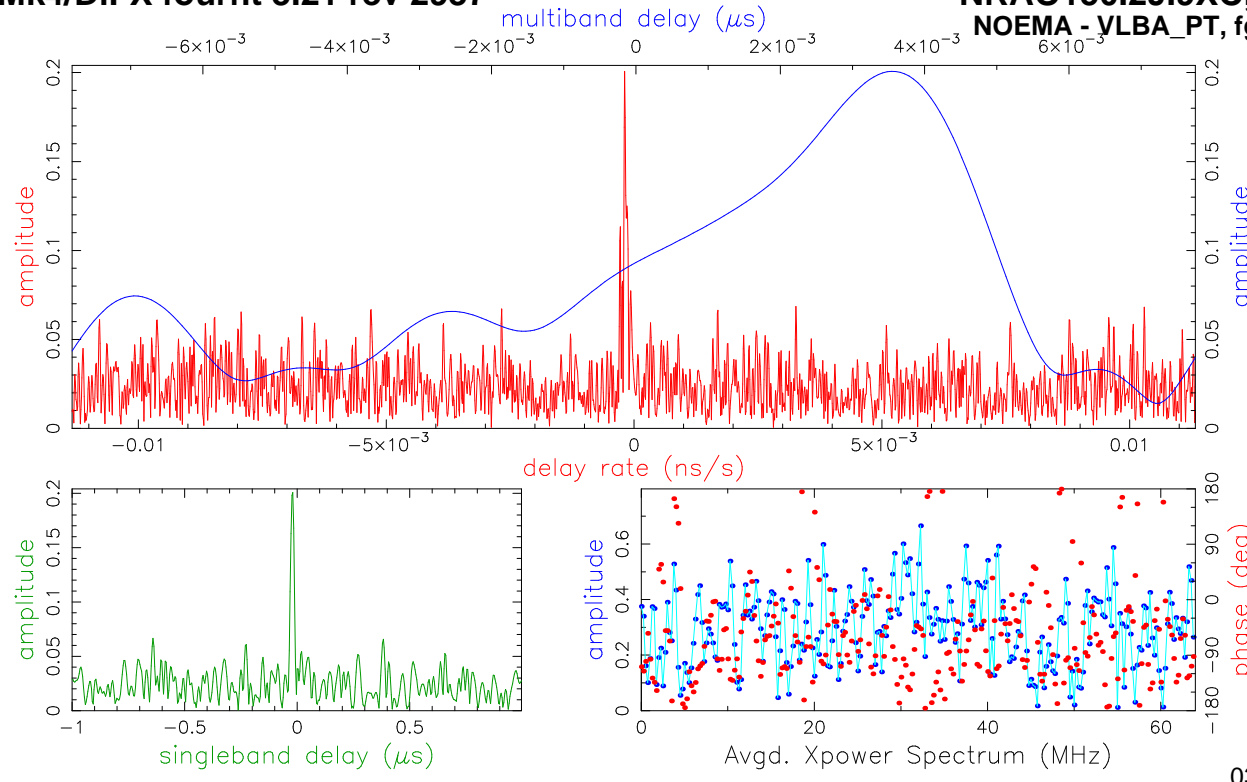


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	23.8	126.7	75.5	-33.8	107.1	110.7	64.7	64.6	Phase	79.9
	0.1	0.2	0.2	0.5	0.6	0.6	0.4	0.4	Ampl.	0.4
	102.7	252.8	86.1	251.4	251.3	251.6	251.9	253.5	Sbd box	252.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)		3.74536551029E+03		Apriori delay (usec)	3.74539107924E+03		Resid mbdelay (usec)	5.68105E-03		+/- 8.7E-05
Sband delay (usec)		3.74537153374E+03		Apriori clock (usec)	-1.2183800E+01		Resid sbdelay (usec)	-1.95455E-02		+/- 6.9E-04
Phase delay (usec)		3.74539108182E+03		Apriori clockrate (us/s)	-3.3779000E-08		Resid phdelay (usec)	2.57585E-06		+/- 2.9E-07
Delay rate (us/s)		-1.25765992924E+00		Apriori rate (us/s)	-1.25765973838E+00		Resid rate (us/s)	-1.90859E-07		+/- 1.4E-09
Total phase (deg)			283.5	Apriori accel (us/s/s)	-7.77862632479E-06		Resid phase (deg)	79.9		+/- 9.1

ph/seg (deg) 64.7 21.9 Search (2048X32) 0.237 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.6 38.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 58.4 12.9 Inc. seg. avg. 0.354 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 85.3 22.6 Inc. frq. avg. 0.350 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 N: az 299.0 el 57.3 pa 82.3 p: az 49.1 el 40.9 pa -84.0 u,v (fr/asec) 11439.301 -64.310 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/Np..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/Np.W.156.2J19XC

Mk4/DiFX fourfit 3.21 rev 2937

NRAO150.2J19XC, No0237, Np
NOEMA - VLBA_PT, fgroup W, pol RL

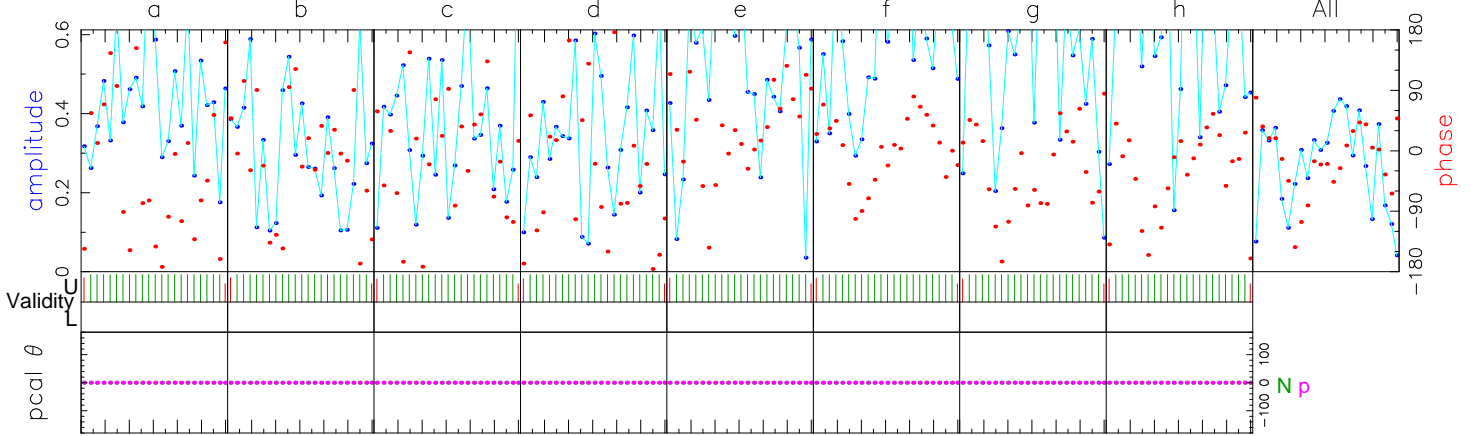


Fringe quality 9

SNR 10.5
Int time 357.253
Amp 0.204
Phase -7.5
PFD 2.4e-17
Delays (us)
SBD -0.021181
MBD 0.003564
Fringe rate (Hz)
-0.015938
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

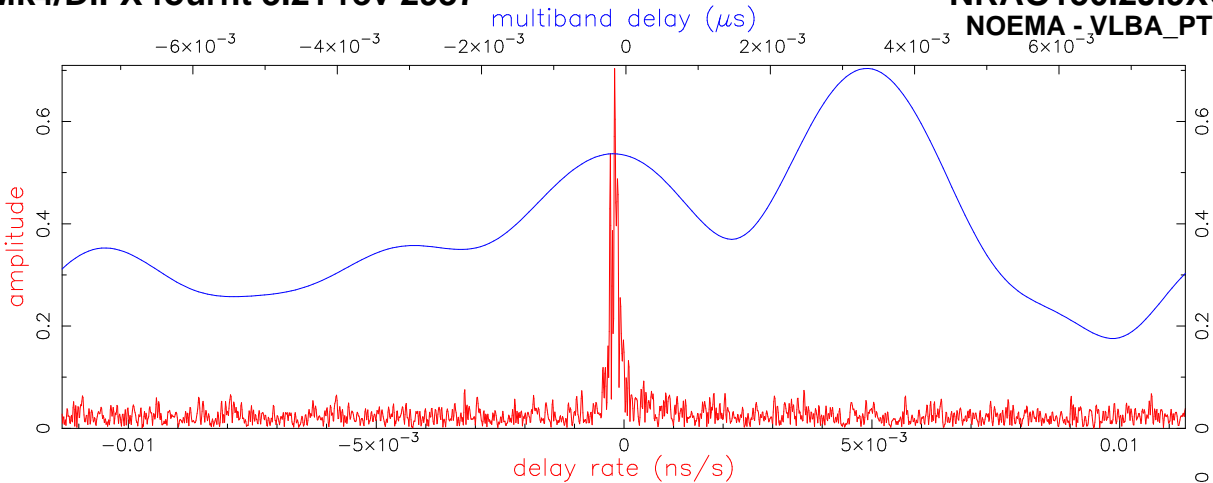
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145319
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



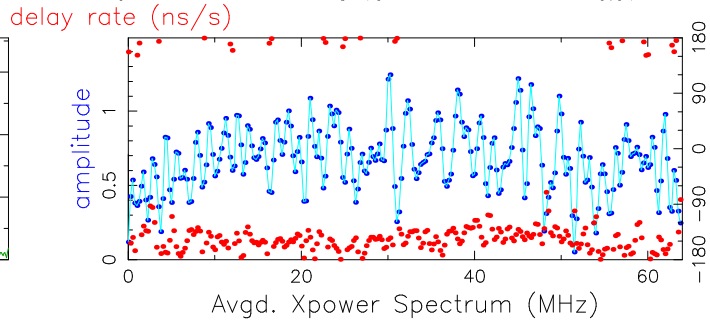
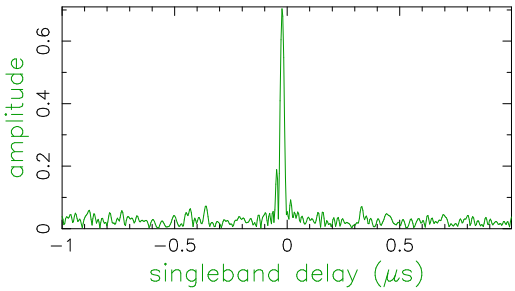
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-90.6	11.6	-2.1	-74.2	36.1	11.6	-28.0	-19.3	Phase	-7.5
	0.1	0.1	0.1	0.1	0.3	0.5	0.3	0.4	Ampl.	0.2
	245.9	217.8	350.9	249.9	250.6	251.0	250.6	253.7	Sbd box	251.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.74536339294E+03		Apriori delay (usec)		3.74539107924E+03		Resid mbdelay (usec)		3.56370E-03	+/- 1.0E-04
Sband delay (usec)	3.74536989824E+03		Apriori clock (usec)		-1.2183800E+01		Resid sbdelay (usec)		-2.11810E-02	+/- 8.2E-04
Phase delay (usec)	3.74539107900E+03		Apriori clockrate (us/s)		-3.3779000E-08		Resid phdelay (usec)		-2.41174E-07	+/- 3.5E-07
Delay rate (us/s)	-1.25765992340E+00		Apriori rate (us/s)		-1.25765973838E+00		Resid rate (us/s)		-1.85024E-07	+/- 1.7E-09
Total phase (deg)	196.2		Apriori accel (us/s/s)		-7.77862632479E-06		Resid phase (deg)		-7.5	+/- 10.9

ph/seg (deg) 51.3 26.1 Search (2048X32) 0.196 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 65.2 45.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 49.3 15.4 Inc. seg. avg. 0.250 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 70.5 26.8 Inc. frq. avg. 0.227 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
N: az 299.0 el 57.3 pa 82.3 p: az 49.1 el 40.9 pa -84.0 u,v (fr/asec) 11439.301 -64.310 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/Np..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/Np.W.175.2J19XC



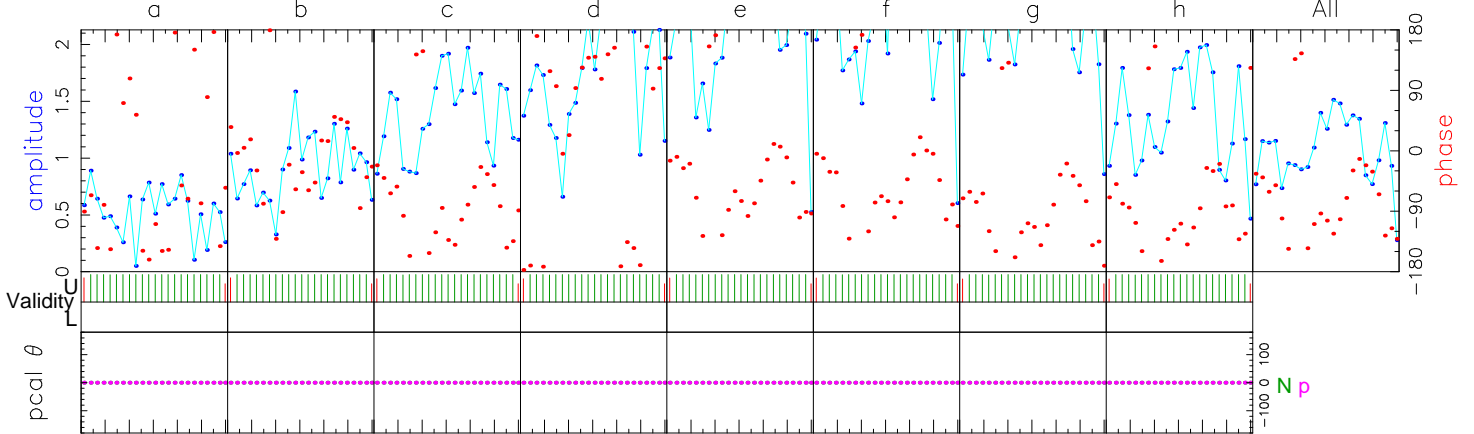
Fringe quality 3

SNR 36.7
Int time 357.253
Amp 0.710
Phase -85.4
PFD 0.0e+00
Delays (us)
SBD -0.022230
MBD 0.003371
Fringe rate (Hz)
-0.015950
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180000.00
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145309
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 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
	-130.3	-19.0	-94.3	148.8	-57.0	-56.8	-100.7	-101.4	Phase	-85.4
	0.3	0.6	0.9	1.3	1.5	1.5	1.5	0.9	Ampl.	1.1
	251.8	251.1	250.3	250.5	250.9	250.7	251.1	253.6	Sbd box	251.3
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
p	0	0	0	0	0	0	0	0	PC freqs	
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	3.74536320035E+03	Apriori delay (usec)	3.74539107924E+03	Resid mbdelay (usec)	3.37111E-03	+/-	3.0E-05
Sband delay (usec)	3.74536884974E+03	Apriori clock (usec)	-1.2183800E+01	Resid sbdelay (usec)	-2.22295E-02	+/-	2.3E-04
Phase delay (usec)	3.74539107649E+03	Apriori clockrate (us/s)	-3.3779000E-08	Resid phdelay (usec)	-2.75380E-06	+/-	1.0E-07
Delay rate (us/s)	-1.25765992354E+00	Apriori rate (us/s)	-1.25765973838E+00	Resid rate (us/s)	-1.85158E-07	+/-	4.8E-10
Total phase (deg)	118.3	Apriori accel (us/s/s)	-7.77862632479E-06	Resid phase (deg)	-85.4	+/-	3.1

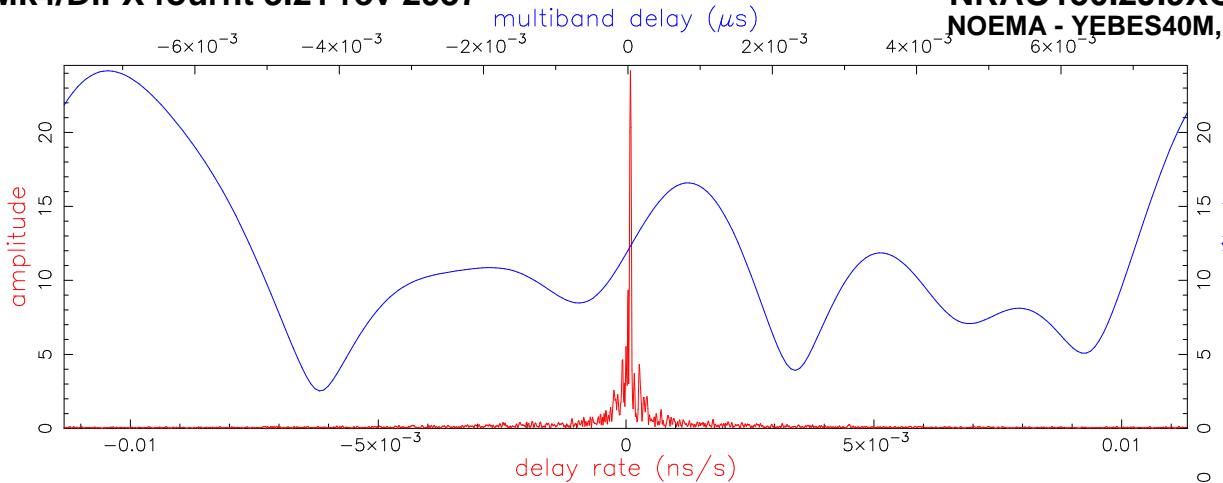
ph/seg (deg)	56.6	RMS	7.5	Theor.	Amplitude	0.710 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	64.7	56.6	7.5	Search (2048X32)	0.689	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	63.8	64.7	13.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	79.1	63.8	4.4	Inc. seg. avg.	1.072	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011		
		79.1	7.7	Inc. frq. avg.	1.064	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

N: az 299.0 el 57.3 pa 82.3 p: az 49.1 el 40.9 pa -84.0 u,v (fr/asec) 11439.301 -64.310 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/Np..2JI9XC Output file: /Exps/c221d/v1/3mm/3000/No0237/Np.W.93.2JI9XC

Mk4/DiFX fourfit 3.21 rev 2937

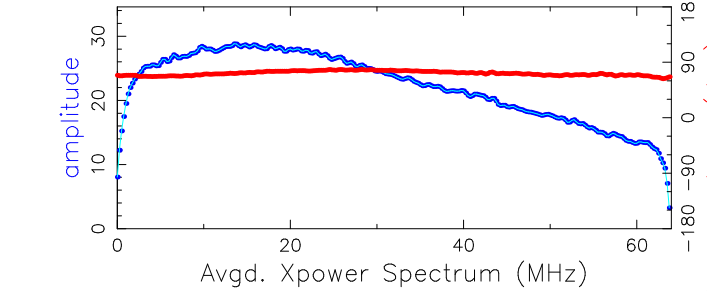
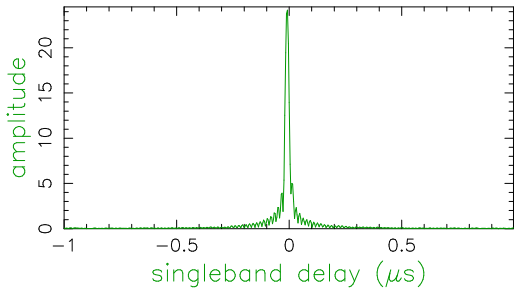
NRAO150.2J19XC, No0237, NY
NOEMA - YEBES40M, fgroup W, pol LL



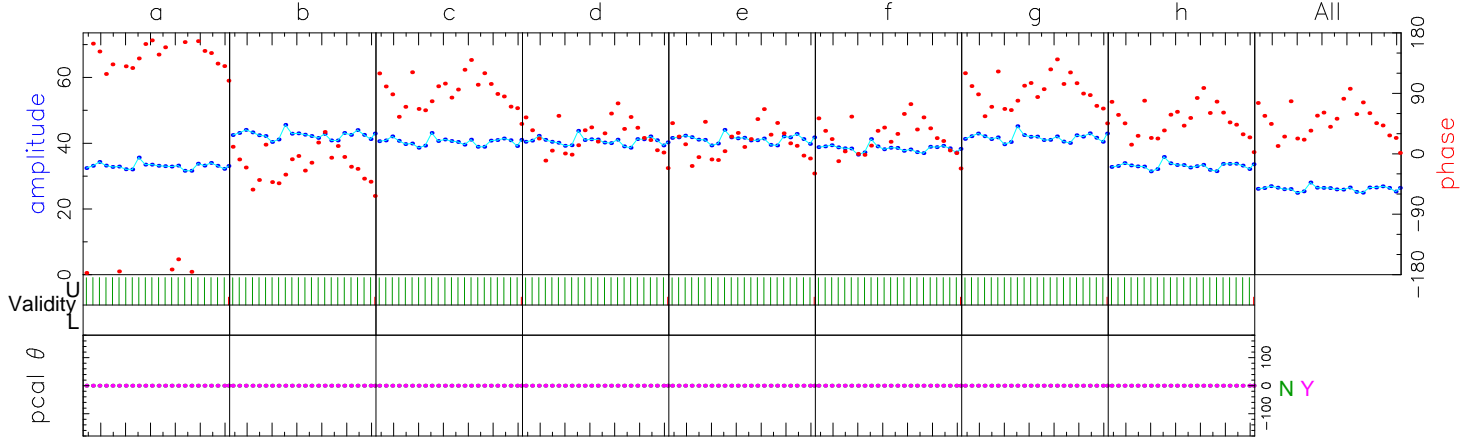
Fringe quality 3

SNR 1240.6
Int time 342.126
Amp 24.527
Phase 49.0
PFD 0.0e+00
Delays (us)
SBD -0.009427
MBD -0.007180
Fringe rate (Hz) 0.008003
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180017.41
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145328
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"



Amp. and Phase vs. time for each freq., 23 segs, 30 APs / seg (15.36 sec / seg.), time ticks 30 sec



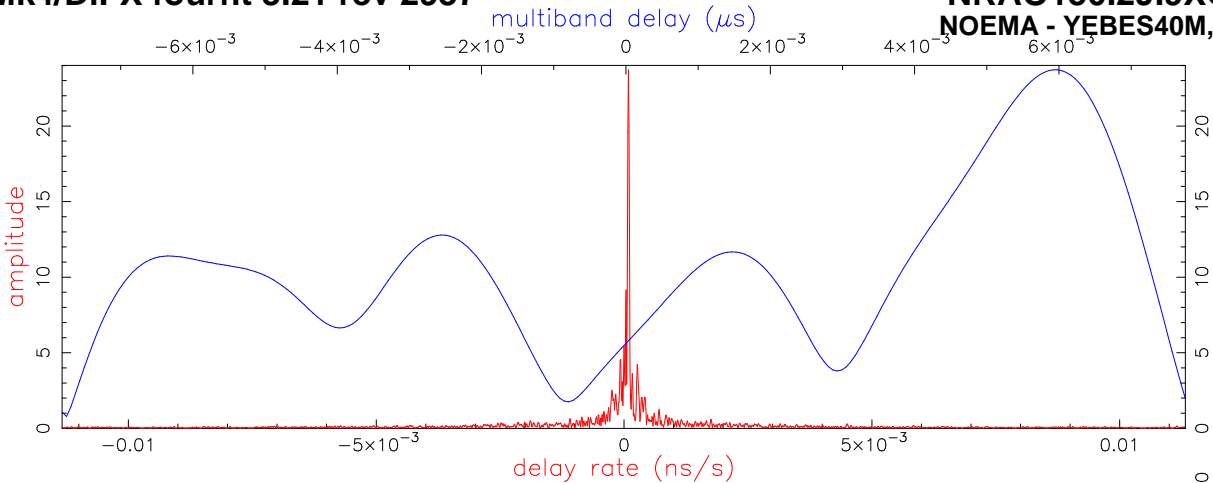
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	156.0	-16.0	92.5	27.1	18.5	26.4	93.2	50.1	Phase	49.0
	30.5	39.2	37.3	37.5	38.1	35.5	38.5	30.6	Ampl.	35.9
	256.7	255.0	254.3	254.3	254.2	254.1	254.5	254.2	Sbd box	254.6
U/L	669/0	669/0	669/0	669/0	669/0	669/0	669/0	669/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.65784540400E+02		Apriori delay (usec)		-6.65777360247E+02		Resid mbdelay (usec)		-7.18015E-03	+/- 8.7E-07
Sband delay (usec)	-6.65786787497E+02		Apriori clock (usec)		7.6111946E+00		Resid sbdelay (usec)		-9.42725E-03	+/- 6.9E-06
Phase delay (usec)	-6.65777358668E+02		Apriori clockrate (us/s)		1.3000000E-06		Resid phdelay (usec)		1.57861E-06	+/- 3.0E-09
Delay rate (us/s)	-4.67584183588E-02		Apriori rate (us/s)		-4.67585112684E-02		Resid rate (us/s)		9.29096E-08	+/- 1.5E-11
Total phase (deg)			Apriori accel (us/s/s)		8.23089239038E-06		Resid phase (deg)		49.0	+/- 0.1

ph/seg (deg) 22.9 0.2 Theor. Amplitude 24.527 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 7.3 0.4 Search (2048X32) 23.393 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 59.8 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 48.2 0.2 Inc. seg. avg. 26.184 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
Inc. frq. avg. 35.900 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

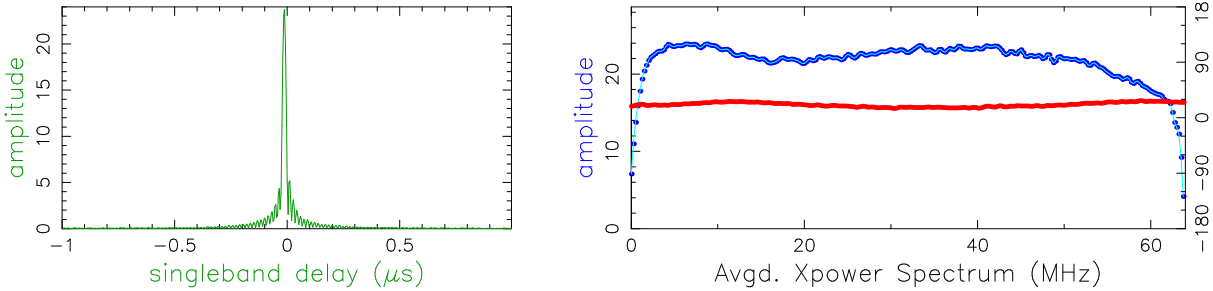
N: az 299.0 el 57.3 pa 82.3 Y: az 304.5 el 60.8 pa 96.1 u,v (fr/asec) 436.091 1091.427 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/NY..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/NY.W.190.2J19XC

Mk4/DiFX fourfit 3.21 rev 2937

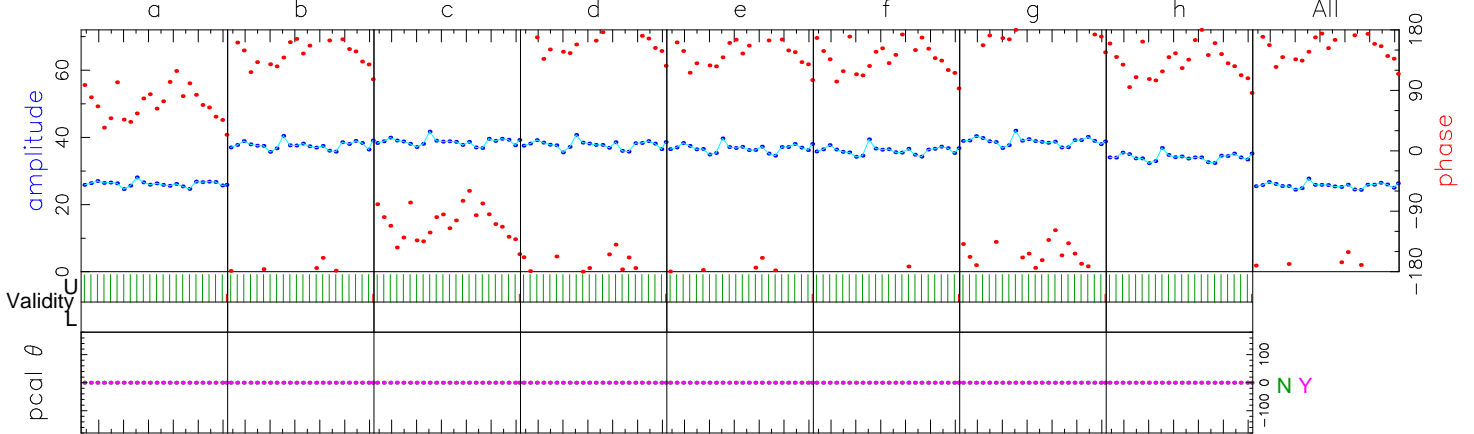
NRAO150.2J19XC, No0237, NY
NOEMA - YEBES40M, fgroup W, pol RR



Fringe quality 4
SNR 1214.4
Int time 342.126
Amp 24.010
Phase 162.0
PFD 0.0e+00
Delays (us)
SBD -0.013137
MBD 0.005905
Fringe rate (Hz) 0.008000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180017.41
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145331
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"



Amp. and Phase vs. time for each freq., 23 segs, 30 APs / seg (15.36 sec / seg.), time ticks 30 sec

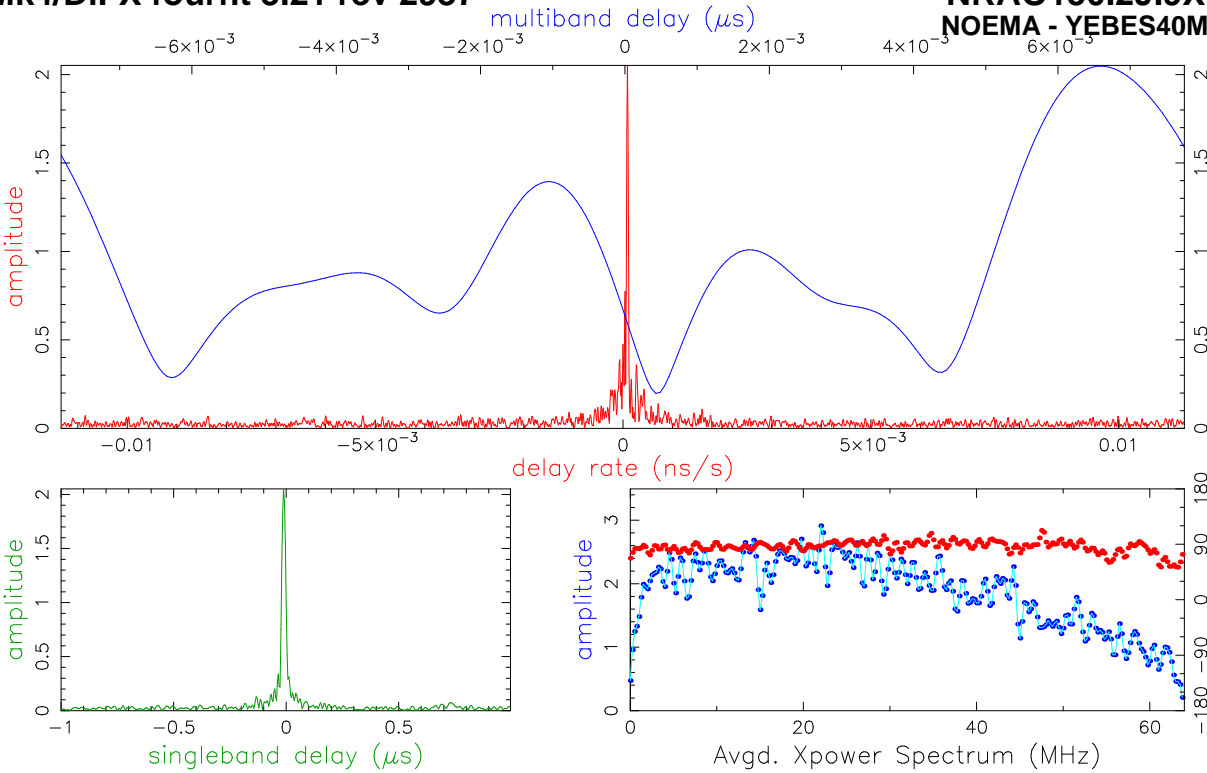


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	71.3	153.9	-106.6	173.5	153.4	140.5	-165.5	132.6	Phase	162.0
	24.2	34.8	35.7	34.9	33.9	33.4	35.8	31.5	Ampl.	33.0
	256.0	253.6	253.9	253.7	253.2	253.3	253.7	253.8	Sbd box	253.6
U/L	669/0	669/0	669/0	669/0	669/0	669/0	669/0	669/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.65787079931E+02					-6.65777360247E+02			Resid mbdelay (usec)	5.90532E-03 +/- 8.9E-07
Sband delay (usec)	-6.65790497497E+02					7.6111946E+00			Resid sbdelay (usec)	-1.31373E-02 +/- 7.1E-06
Phase delay (usec)	-6.65777355023E+02					1.3000000E-06			Resid phdelay (usec)	5.22405E-06 +/- 3.0E-09
Delay rate (us/s)	-4.67584183921E-02					-4.67585112684E-02			Resid rate (us/s)	9.28763E-08 +/- 1.5E-11
Total phase (deg)		-130.2				8.23089239038E-06			Resid phase (deg)	162.0 +/- 0.1

RMS Theor. Amplitude 24.010 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 22.8 0.2 Search (2048X32) 22.985 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 7.6 0.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 56.6 0.1 Inc. seg. avg. 25.677 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 40.4 0.2 Inc. frq. avg. 33.021 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 N: az 299.0 el 57.3 pa 82.3 Y: az 304.5 el 60.8 pa 96.1 u,v (fr/asec) 436.091 1091.427 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/NY..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/NY.W.210.2J19XC

Mk4/DiFX fourfit 3.21 rev 2937

NRAO150.2J19XC, No0237, NY
NOEMA - YEBES40M, fgroup W, pol LR

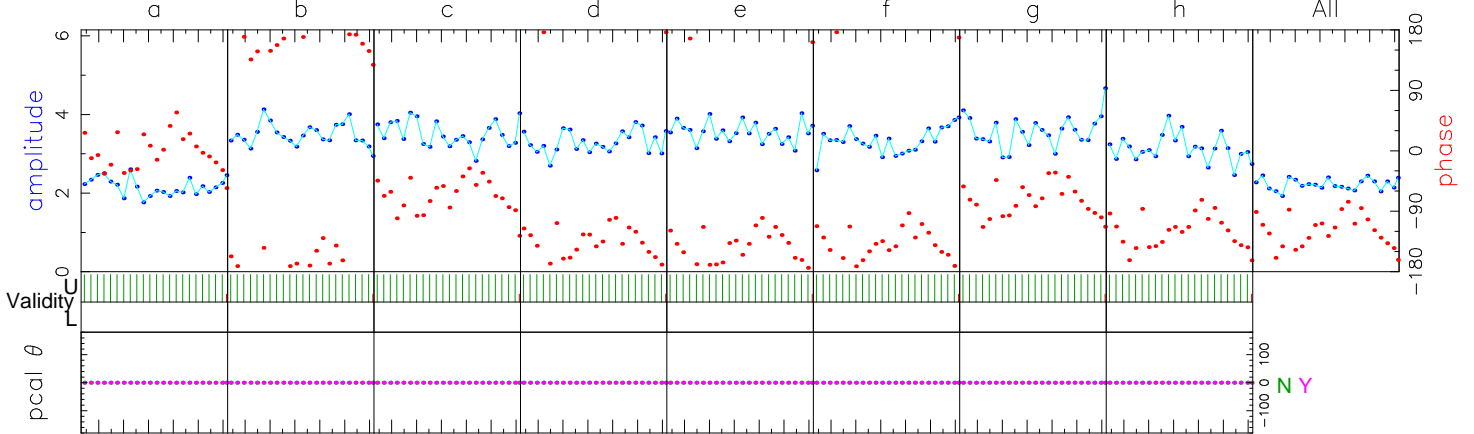


Fringe quality 3

SNR 103.8
Int time 342.126
Amp 2.052
Phase -117.5
PFD 0.0e+00
Delays (us)
SBD -0.011118
MBD 0.006570
Fringe rate (Hz)
0.007972
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180017.41
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145334
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 30 APs / seg (15.36 sec / seg.), time ticks 30 sec

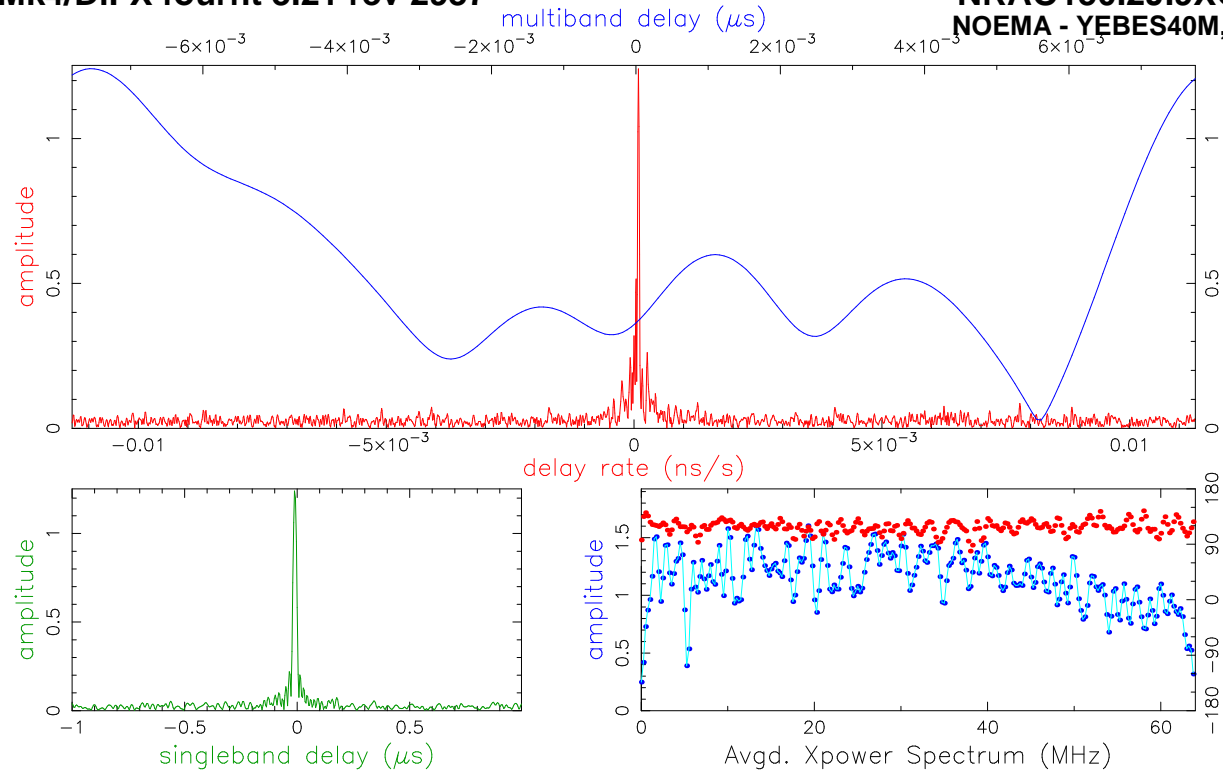


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-2.1	-179.4	-65.2	-137.8	-144.6	-141.2	-72.8	-119.2	Phase	-117.5
	2.0	3.2	3.2	3.0	3.2	3.1	3.3	2.9	Ampl.	3.0
	256.3	254.1	254.1	254.0	253.7	253.5	254.1	254.0	Sbd box	254.2
U/L	669/0	669/0	669/0	669/0	669/0	669/0	669/0	669/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -6.65786414994E+02 Apriori delay (usec) -6.65777360247E+02 Resid mbdelay (usec) 6.57025E-03 +/- 1.0E-05
 Sband delay (usec) -6.65788478497E+02 Apriori clock (usec) 7.6111946E+00 Resid sbdelay (usec) -1.11182E-02 +/- 8.3E-05
 Phase delay (usec) -6.65777364036E+02 Apriori clockrate (us/s) 1.3000000E-06 Resid phdelay (usec) -3.78881E-06 +/- 3.6E-08
 Delay rate (us/s) -4.67584187230E-02 Apriori rate (us/s) -4.67585112684E-02 Resid rate (us/s) 9.25454E-08 +/- 1.8E-10
 Total phase (deg) -49.7 Apriori accel (us/s/s) 8.23089239038E-06 Resid phase (deg) -117.5 +/- 1.1

RMS Theor. Amplitude 2.052 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 23.0 2.6 Search (2048X32) 1.973 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 10.6 4.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 62.7 1.6 Inc. seg. avg. 2.218 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 49.5 2.7 Inc. frq. avg. 2.982 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

N: az 299.0 el 57.3 pa 82.3 Y: az 304.5 el 60.8 pa 96.1 u,v (fr/asec) 436.091 1091.427 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/NY..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/NY.W.232.2J19XC

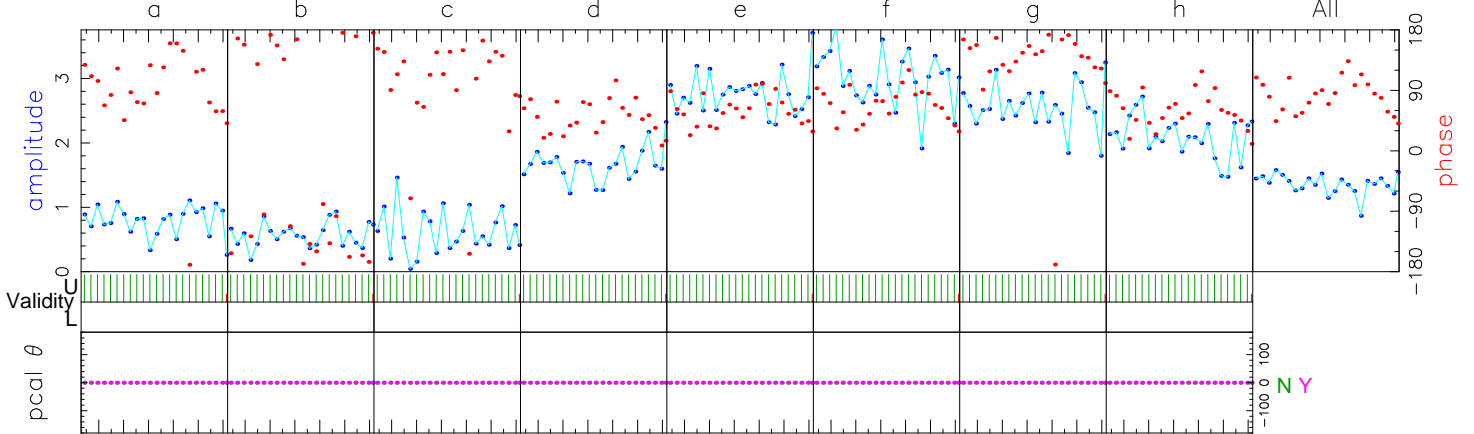


Fringe quality 3

SNR 63.3
Int time 342.126
Amp 1.252
Phase 82.9
PFD 0.0e+00
Delays (us)
SBD -0.010468
MBD -0.007509
Fringe rate (Hz) 0.007989
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

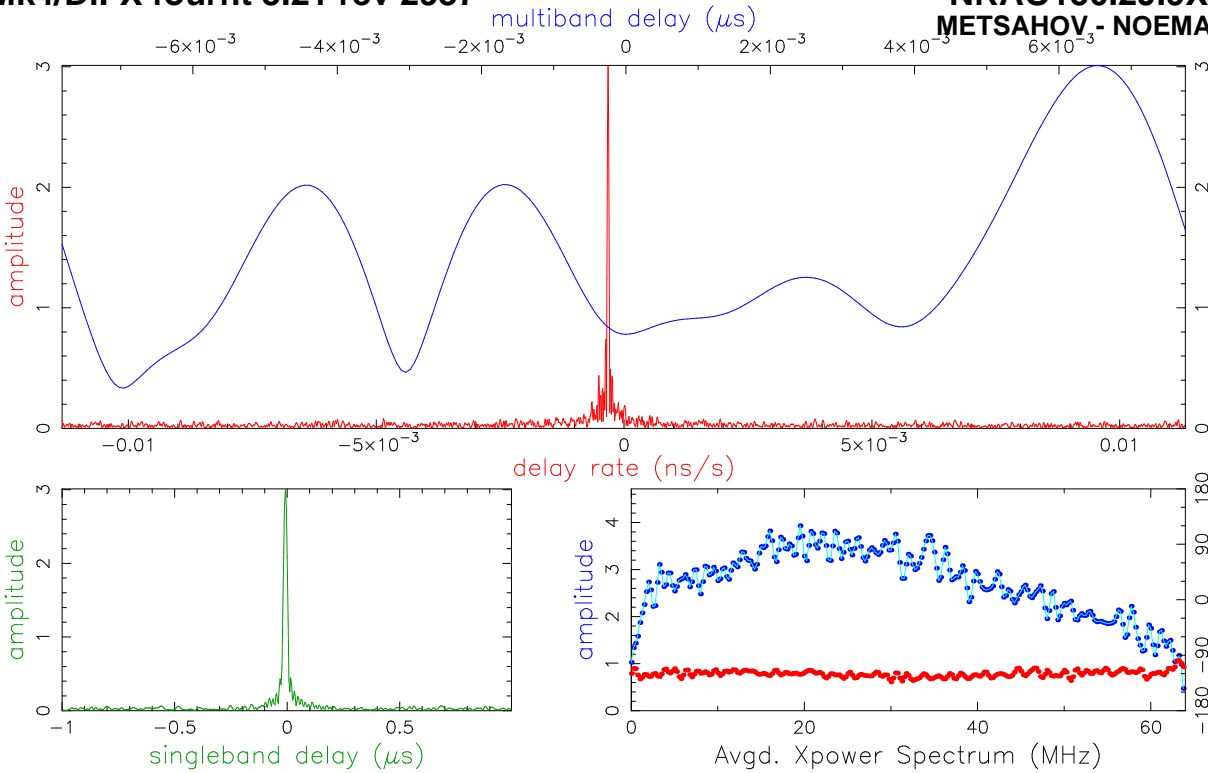
Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180017.41
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145337
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 30 APs / seg (15.36 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
	104.3	-157.9	126.2	51.8	60.6	70.1	145.8	61.5	Phase	82.9
	0.6	0.4	0.5	1.5	2.6	2.8	2.3	1.9	Ampl.	1.6
	256.7	255.4	255.1	254.2	254.1	254.0	254.1	253.9	Sbd box	254.3
U/L	669/0	669/0	669/0	669/0	669/0	669/0	669/0	669/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.65784868994E+02		Apriori delay (usec)	-6.65777360247E+02	Resid mbdelay (usec)	-7.50875E-03	+/-	1.7E-05		
Sband delay (usec)	-6.65787827997E+02		Apriori clock (usec)	7.6111946E+00	Resid sbdelay (usec)	-1.04678E-02	+/-	1.4E-04		
Phase delay (usec)	-6.65777357574E+02		Apriori clockrate (us/s)	1.3000000E-06	Resid phdelay (usec)	2.67237E-06	+/-	5.8E-08		
Delay rate (us/s)	-4.67584185218E-02		Apriori rate (us/s)	-4.67585112684E-02	Resid rate (us/s)	9.27467E-08	+/-	3.0E-10		
Total phase (deg)		-209.3	Apriori accel (us/s/s)	8.23089239038E-06	Resid phase (deg)	82.9	+/-	1.8		

ph/seg (deg) 24.0 4.3 Search (2048X32) 1.192 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 14.5 7.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 61.4 2.6 Inc. seg. avg. 1.352 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 76.0 4.5 Inc. frq. avg. 1.578 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 N: az 299.0 el 57.3 pa 82.3 Y: az 304.5 el 60.8 pa 96.1 u,v (fr/asec) 436.091 1091.427 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/NY..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/NY.W.256.2J19XC

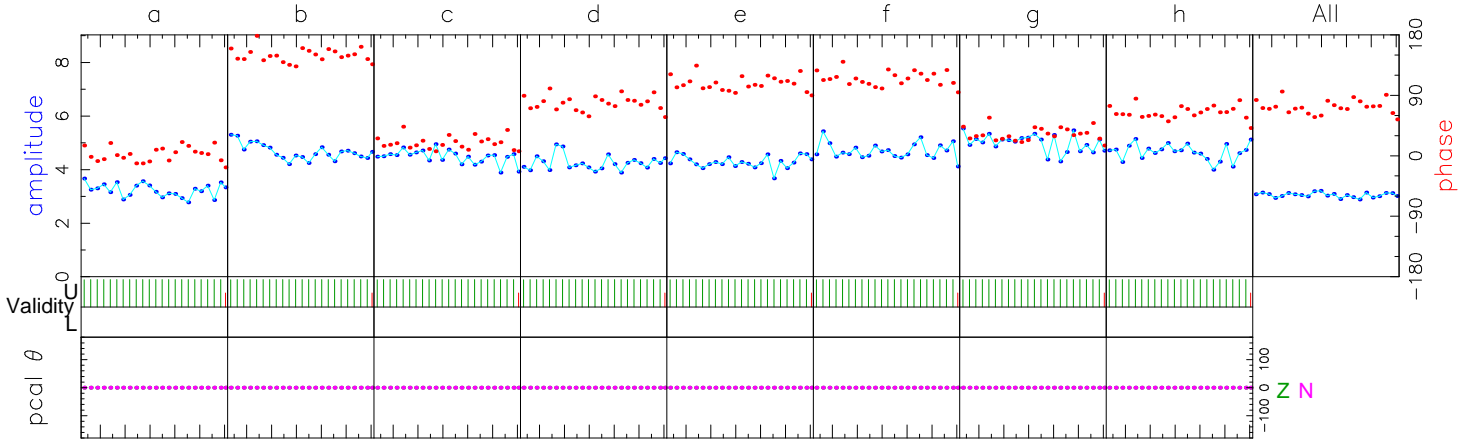


Fringe quality 5

SNR 153.1
Int time 345.612
Amp 3.012
Phase 73.1
PFD 0.0e+00
Delays (us)
SBD -0.007916
MBD 0.006535
Fringe rate (Hz)
-0.027226
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180013.82
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145327
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 30 APs / seg (15.36 sec / seg.), time ticks 30 sec

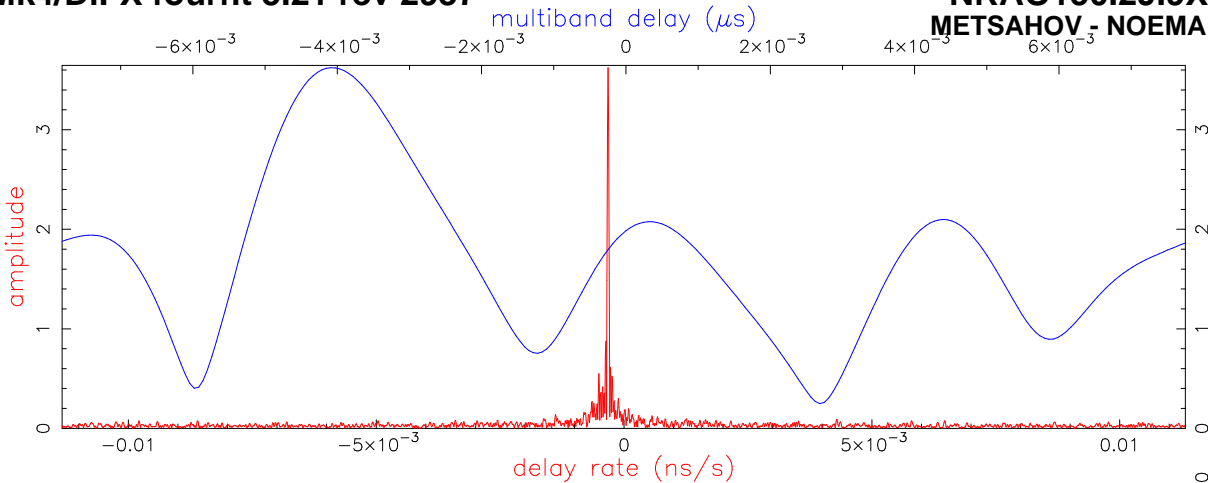


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	676/0	676/0	676/0	676/0	676/0	676/0	676/0	676/0		
Z	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-9.59033264553E+02	Apriori delay (usec)	-9.59024174720E+02	Resid mbdelay (usec)	6.53517E-03	+/-	7.1E-06
Sband delay (usec)	-9.59032090720E+02	Apriori clock (usec)	1.2813049E+01	Resid sbdelay (usec)	-7.91600E-03	+/-	5.6E-05
Phase delay (usec)	-9.59024172362E+02	Apriori clockrate (us/s)	3.9799999E-07	Resid phdelay (usec)	2.35711E-06	+/-	2.4E-08
Delay rate (us/s)	7.81993265629E-02	Apriori rate (us/s)	7.81996426270E-02	Resid rate (us/s)	-3.16064E-07	+/-	1.2E-10
Total phase (deg)	-74.6	Apriori accel (us/s/s)	1.96793395149E-05	Resid phase (deg)	73.1	+/-	0.7

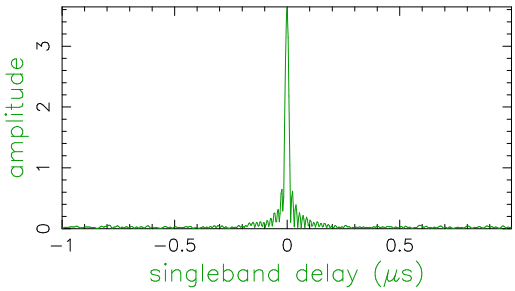
	RMS	Theor.	Amplitude	3.012 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	9.8	1.8	Search (2048X32)	2.830	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	3.2	3.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	55.6	1.1	Inc. seg. avg.	3.055	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	47.4	1.8	Inc. frq. avg.	4.349	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

Z: az 286.7 el 52.8 pa 49.2 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -688.045 2837.861 simultaneous interpolator

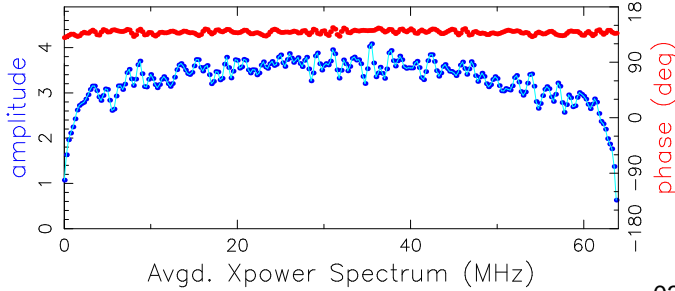


Fringe quality 5

SNR 185.3
 Int time 345.612
 Amp 3.647
 Phase 174.8
 PFD 0.0e+00
 Delays (us)
 SBD -0.000998
 MBD -0.004093
 Fringe rate (Hz)
 -0.027222
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

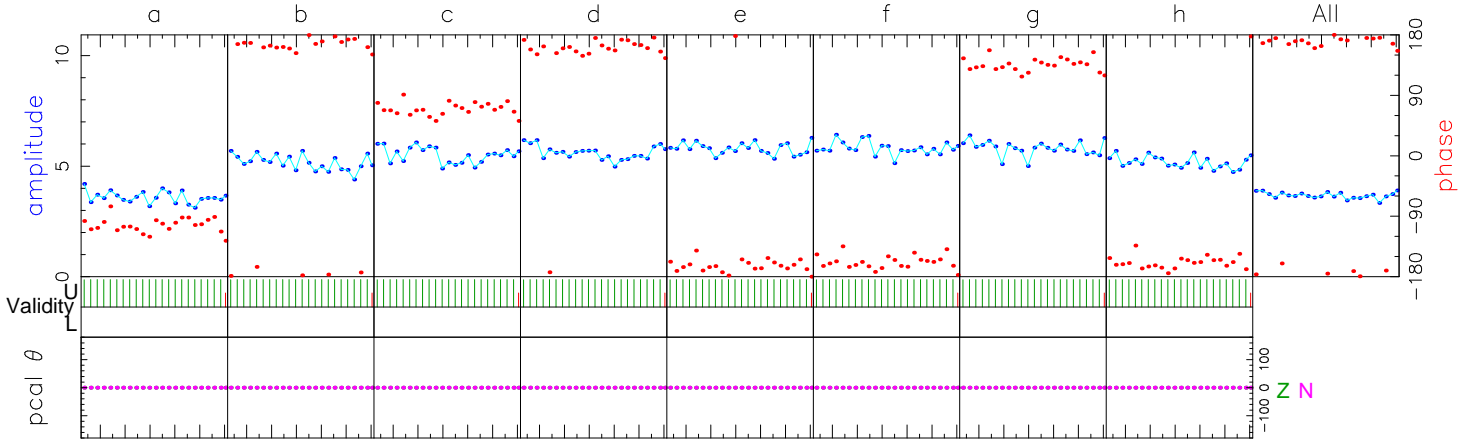


delay rate (ns/s)



Exp. c221d
 Exper # 16383
 Yr:day 2022:094
 Start 180013.82
 Stop 180559.94
 FRT 180300.00
 Corr/FF/build
 2023:010:110447
 2023:010:145330
 2021:252:122852
 RA & Dec (J2000)
 03h59m29.747267s
 +50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 30 APs / seg (15.36 sec / seg.), time ticks 30 sec



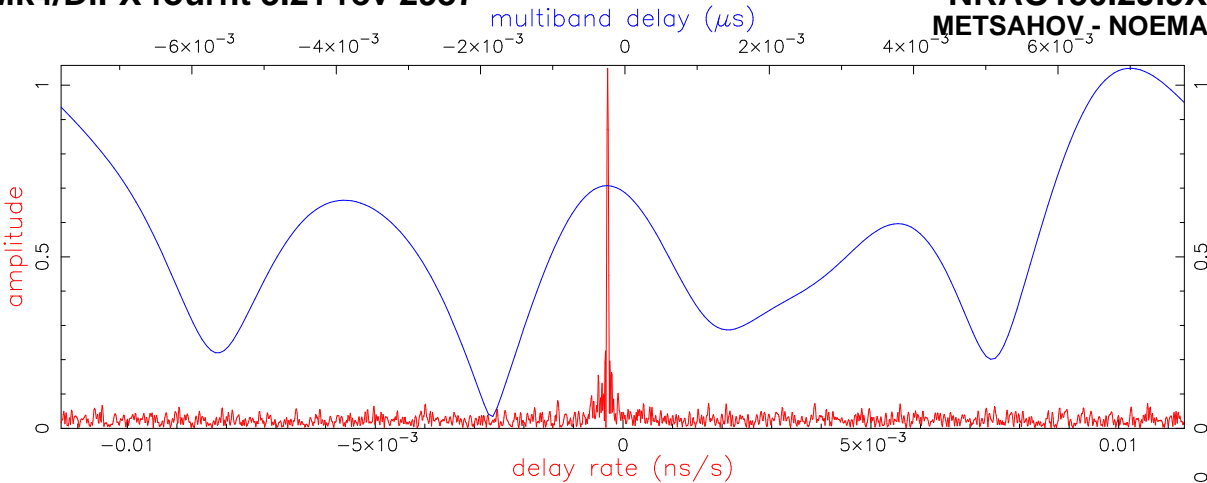
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-102.5	170.6	69.8	162.4	-164.3	-157.5	135.9	-159.4	Phase	174.8
	3.5	5.1	5.4	5.5	5.7	5.7	5.7	5.1	Ampl.	5.2
	254.8	256.2	256.7	257.1	257.1	257.0	256.9	256.0	Sbd box	256.7
U/L	676/0	676/0	676/0	676/0	676/0	676/0	676/0	676/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -9.59028267897E+02 Apriori delay (usec) -9.59024174720E+02 Resid mbdelay (usec) -4.09318E-03 +/- 5.9E-06
 Sband delay (usec) -9.59025172470E+02 Apriori clock (usec) 1.2813049E+01 Resid sbdelay (usec) -9.97750E-04 +/- 4.6E-05
 Phase delay (usec) -9.59024169081E+02 Apriori clockrate (us/s) 3.9799999E-07 Resid phdelay (usec) 5.63827E-06 +/- 2.0E-08
 Delay rate (us/s) 7.81993266061E-02 Apriori rate (us/s) 7.81996426270E-02 Resid rate (us/s) -3.16021E-07 +/- 1.0E-10
 Total phase (deg) 27.1 Apriori accel (us/s/s) 1.96793395149E-05 Resid phase (deg) 174.8 +/- 0.6

RMS Theor. Amplitude 3.647 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 9.6 1.5 Search (2048X32) 3.453 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 3.8 2.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 59.7 0.9 Inc. seg. avg. 3.676 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 47.5 1.5 Inc. frq. avg. 5.236 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

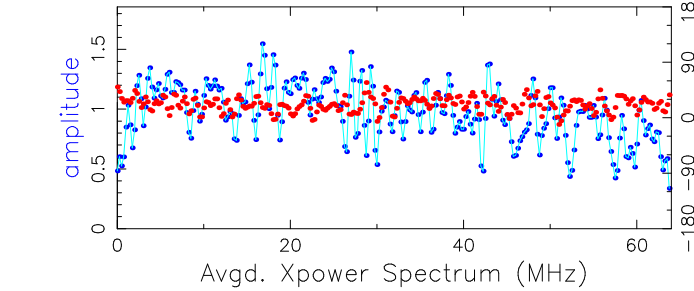
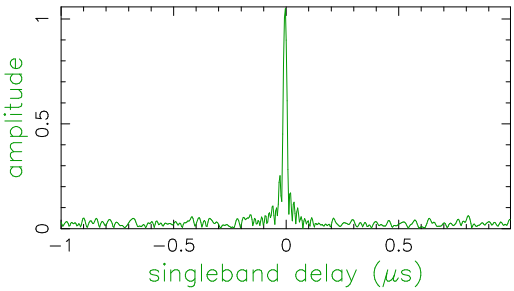
Z: az 286.7 el 52.8 pa 49.2 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -688.045 2837.861 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/ZN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/ZN.W.200.2J19XC



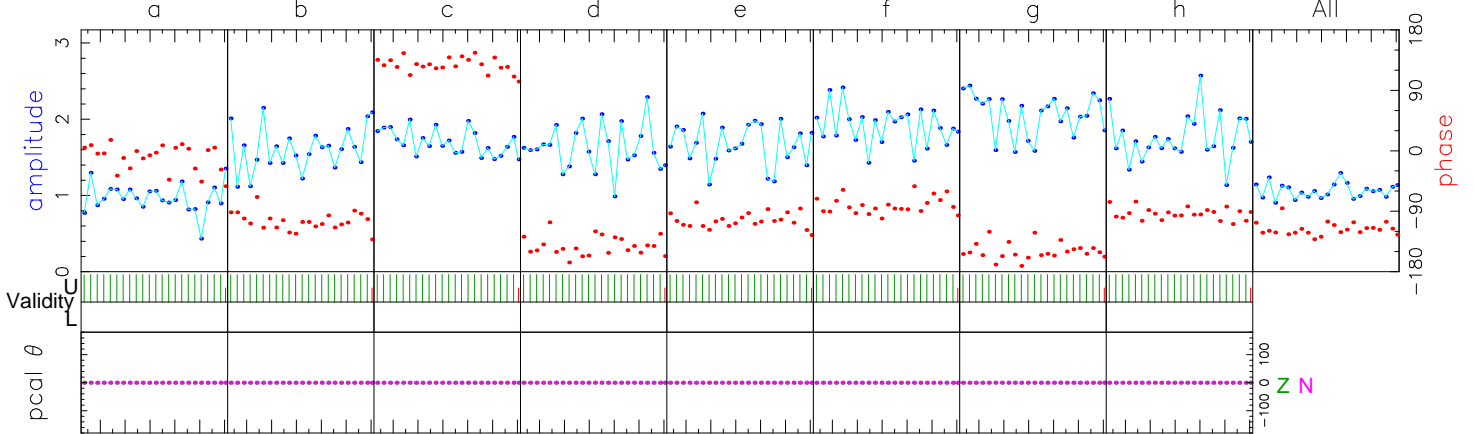
Fringe quality 5

SNR 53.8
Int time 345.612
Amp 1.058
Phase -116.0
PFD 0.0e+00
Delays (us)
SBD -0.005017
MBD 0.006981
Fringe rate (Hz)
-0.027178
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c221d
Exper # 16383
Yr:day 2022:094
Start 180013.82
Stop 180559.94
FRT 180300.00
Corr/FF/build
2023:010:110447
2023:010:145333
2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 30 APs / seg (15.36 sec / seg.), time ticks 30 sec

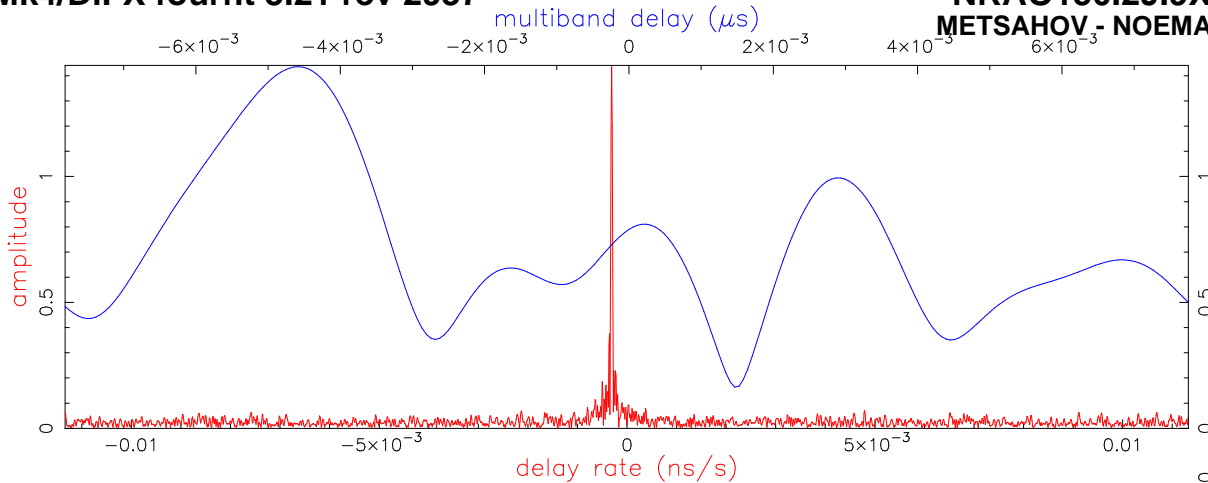


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-8.2	-104.9	128.3	-141.4	-102.9	-80.5	-149.1	-93.4	Phase	-116.0
	0.9	1.6	1.7	1.6	1.6	1.9	2.0	1.7	Ampl.	1.6
	253.3	254.9	255.5	255.9	256.3	255.9	255.7	255.0	Sbd box	255.7
U/L	676/0	676/0	676/0	676/0	676/0	676/0	676/0	676/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -9.59032818647E+02 Apriori delay (usec) -9.59024174720E+02 Resid mbdelay (usec) 6.98107E-03 +/- 2.0E-05
 Sband delay (usec) -9.59029191970E+02 Apriori clock (usec) 1.2813049E+01 Resid sbdelay (usec) -5.01725E-03 +/- 1.6E-04
 Phase delay (usec) -9.59024178460E+02 Apriori clockrate (us/s) 3.9799999E-07 Resid phdelay (usec) -3.74065E-06 +/- 6.9E-08
 Delay rate (us/s) 7.81993271155E-02 Apriori rate (us/s) 7.81996426270E-02 Resid rate (us/s) -3.15511E-07 +/- 3.4E-10
 Total phase (deg) -263.7 Apriori accel (us/s/s) 1.96793395149E-05 Resid phase (deg) -116.0 +/- 2.1

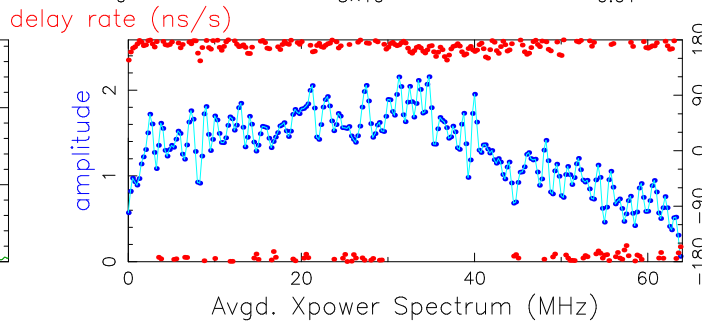
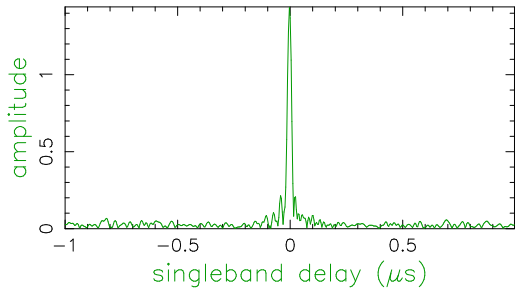
RMS Theor. Amplitude 1.058 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 9.5 5.1 Search (2048X32) 0.984 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 9.2 8.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 69.3 3.0 Inc. seg. avg. 1.060 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 61.3 5.3 Inc. frq. avg. 1.628 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 286.7 el 52.8 pa 49.2 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -688.045 2837.861 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/ZN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/ZN.W.224.2J19XC



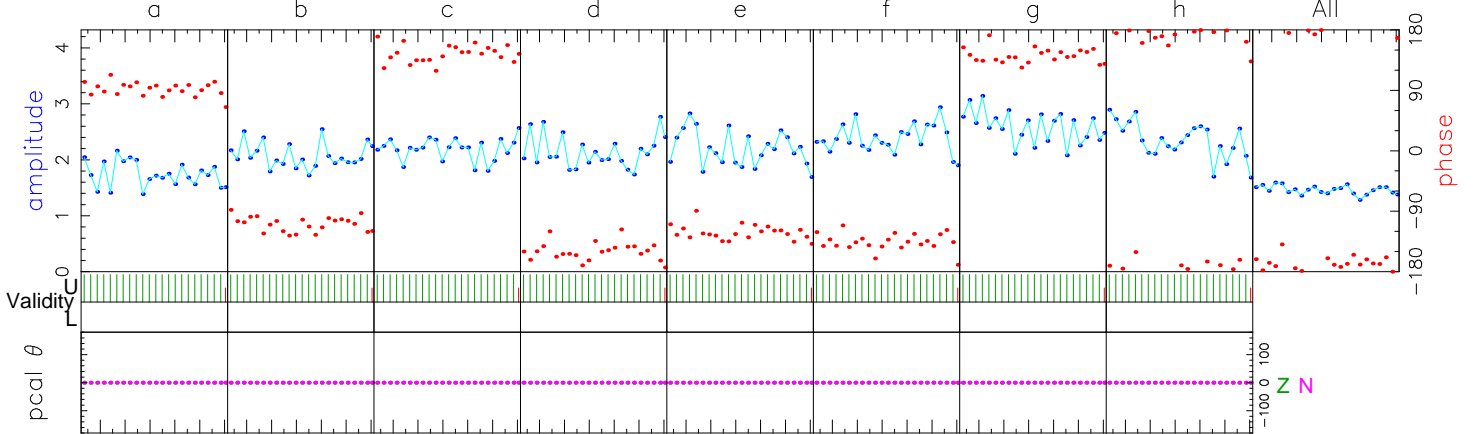
Fringe quality 5

SNR 73.2
Int time 345.612
Amp 1.441
Phase -170.2
PFD 0.0e+00
Delays (us)
SBD -0.003100
MBD -0.004597
Fringe rate (Hz)
-0.027196
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c221d
Yr:day 16383
Start 2023:010:110447
Stop 2023:010:145336
FRT 2021:252:122852
RA & Dec (J2000)
03h59m29.747267s
+50°57'50.161694"

Amp. and Phase vs. time for each freq., 23 segs, 30 APs / seg (15.36 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	676/0	676/0	676/0	676/0	676/0	676/0	676/0	676/0		
Z	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd) -9.59028771991E+02 Apriori delay (usec) -9.59024174720E+02 Resid mbdelay (usec) -4.59727E-03 +/- 1.5E-05
 Sband delay (usec) -9.59027274970E+02 Apriori clock (usec) 1.2813049E+01 Resid sbdelay (usec) -3.10025E-03 +/- 1.2E-04
 Phase delay (usec) -9.59024180207E+02 Apriori clockrate (us/s) 3.9799999E-07 Resid phdelay (usec) -5.48703E-06 +/- 5.0E-08
 Delay rate (us/s) 7.81993269108E-02 Apriori rate (us/s) 7.81996426270E-02 Resid rate (us/s) -3.15716E-07 +/- 2.5E-10
 Total phase (deg) -317.9 Apriori accel (us/s/s) 1.96793395149E-05 Resid phase (deg) -170.2 +/- 1.6

RMS Theor. Amplitude 1.441 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 11.2 3.8 Search (2048X32) 1.358 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 5.5 6.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 60.4 2.2 Inc. seg. avg. 1.461 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 53.0 3.9 Inc. frq. avg. 2.169 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 286.7 el 52.8 pa 49.2 N: az 299.0 el 57.3 pa 82.3 u,v (fr/asec) -688.045 2837.861 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221d/v1/3mm/3000/No0237/ZN..2J19XC Output file: /Exps/c221d/v1/3mm/3000/No0237/ZN.W.247.2J19XC