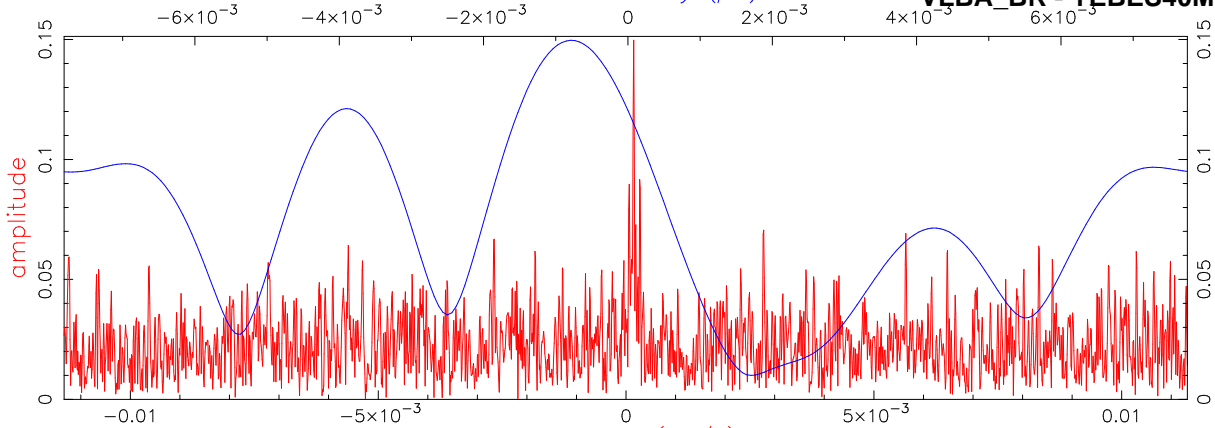


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	39.5	17.7	23.2	44.9	47.8	67.3	33.2	5.0	Phase	35.5
	1.0	1.0	0.9	1.0	1.0	0.8	0.9	0.7	Ampl.	0.9
	259.0	258.5	259.1	258.8	259.2	258.6	258.4	257.5	Sbd box	258.8
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	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)	-6.91310426303E+01		Apriori delay (usec)		-6.91379695016E+01		Resid mbdelay (usec)		6.92687E-03	+/- 2.2E-05
Sband delay (usec)	-6.91307657516E+01		Apriori clock (usec)		1.0774221E+00		Resid sbdelay (usec)		7.20375E-03	+/- 1.8E-04
Phase delay (usec)	-6.91379683579E+01		Apriori clockrate (us/s)		-4.2000000E-07		Resid phdelay (usec)		1.14363E-06	+/- 7.6E-08
Delay rate (us/s)	1.63986436526E-01		Apriori rate (us/s)		1.63986217308E-01		Resid rate (us/s)		2.19219E-07	+/- 3.2E-10
Total phase (deg)			Apriori accel (us/s/s)		9.19384429898E-06		Resid phase (deg)		35.5	+/- 2.4

ph/seg (deg) 67.1 5.6 Search (2048X32) 0.860 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 89.7 9.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 21.1 3.3 Inc. seg. avg. 1.352 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 13.2 5.8 Inc. frq. avg. 0.914 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 304.4 el 23.7 pa 42.9 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -1199.824 1451.288 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/BY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/BY.W.19.18UHQS

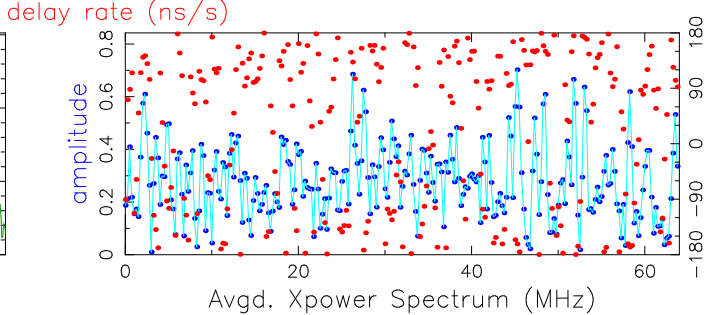
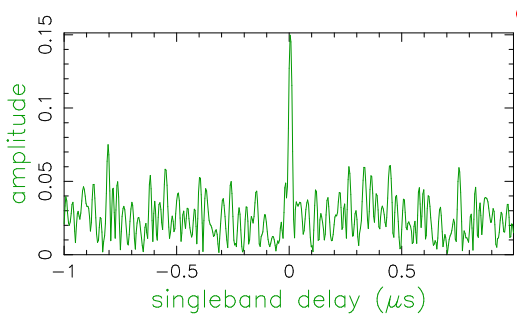
multiband delay (μ s)



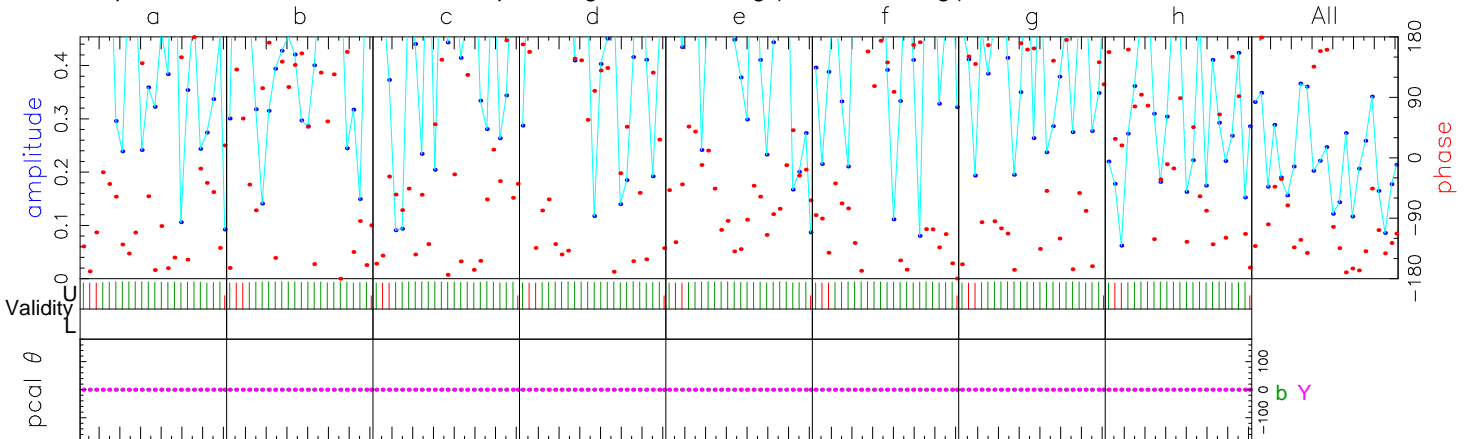
Fringe quality 9

SNR 8.3
 Int time 403.537
 Amp 0.151
 Phase -133.4
 PFD 3.4e-08
 Delays (us)
 SBD 0.005230
 MBD -0.000798
 Fringe rate (Hz)
 0.013119
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084105.12
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143531
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-118.5	154.8	-118.3	-158.1	-55.6	-146.1	-150.0	67.7		-133.4
	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.1		0.2
	257.6	257.9	258.6	404.7	257.6	258.4	257.5	34.8		258.3
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
Y	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
b:Y	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
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks

Group delay (usec)(sbd) 1.16309144554E+04 Apriori delay (usec) 1.16309152531E+04 Resid mbdelay (usec) -7.97721E-04 +/- 1.3E-04

Sband delay (usec) 1.16309204831E+04 Apriori clock (usec) -1.3380541E+01 Resid sbdelay (usec) 5.23000E-03 +/- 1.0E-03

Phase delay (usec) 1.16309152488E+04 Apriori clockrate (us/s) -2.6200000E-07 Resid phdelay (usec) -4.30065E-06 +/- 4.4E-07

Delay rate (us/s) 1.24009364763E+00 Apriori rate (us/s) 1.24009349534E+00 Resid rate (us/s) 1.52297E-07 +/- 1.9E-09

Total phase (deg) 190.7 Apriori accel (us/s/s) -5.50675932710E-05 Resid phase (deg) -133.4 +/- 13.8

ph/seg (deg) 50.2 33.1 Amplitude 0.151 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

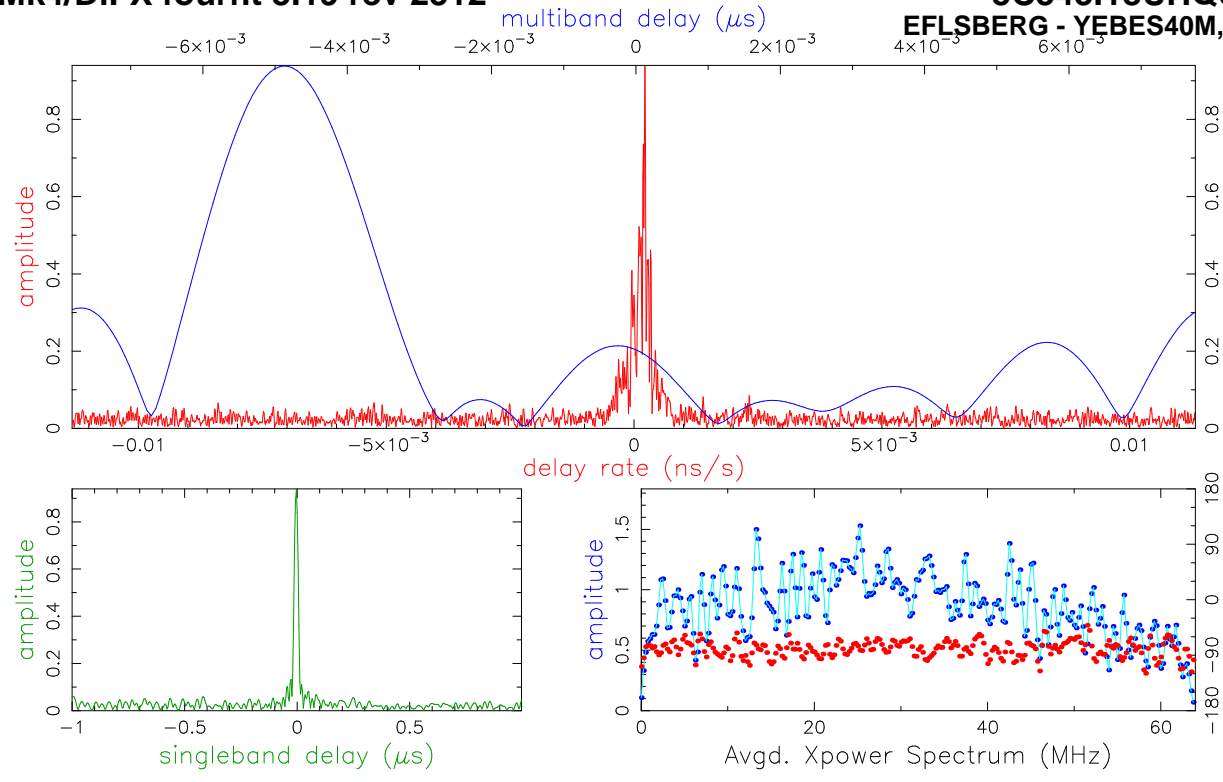
amp/seg (%) 73.5 57.7 Search (2048X32) 0.145 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 79.6 19.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 69.1 34.0 Inc. seg. avg. 0.194 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011

b: az 104.8 el 69.8 pa -57.1 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -9355.029 -2814.608 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bY.W.25.18UHQS simultaneous interpolator

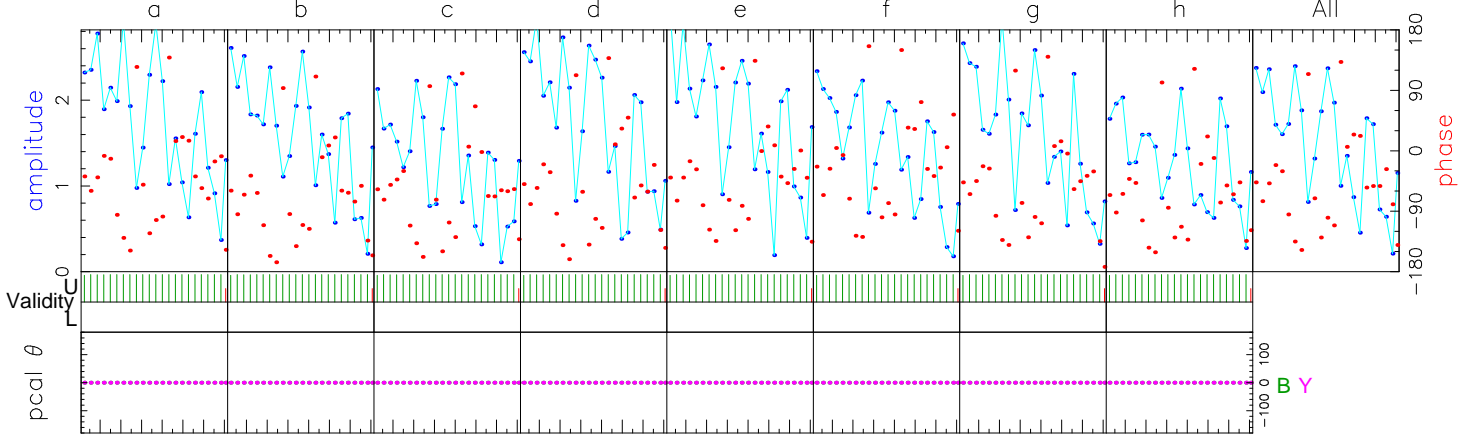


Fringe quality 4

SNR 52.3
Int time 413.639
Amp 0.940
Phase -74.5
PFD 0.0e+00
Delays (us)
SBD -0.004490
MBD -0.004888
Fringe rate (Hz) 0.018918
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

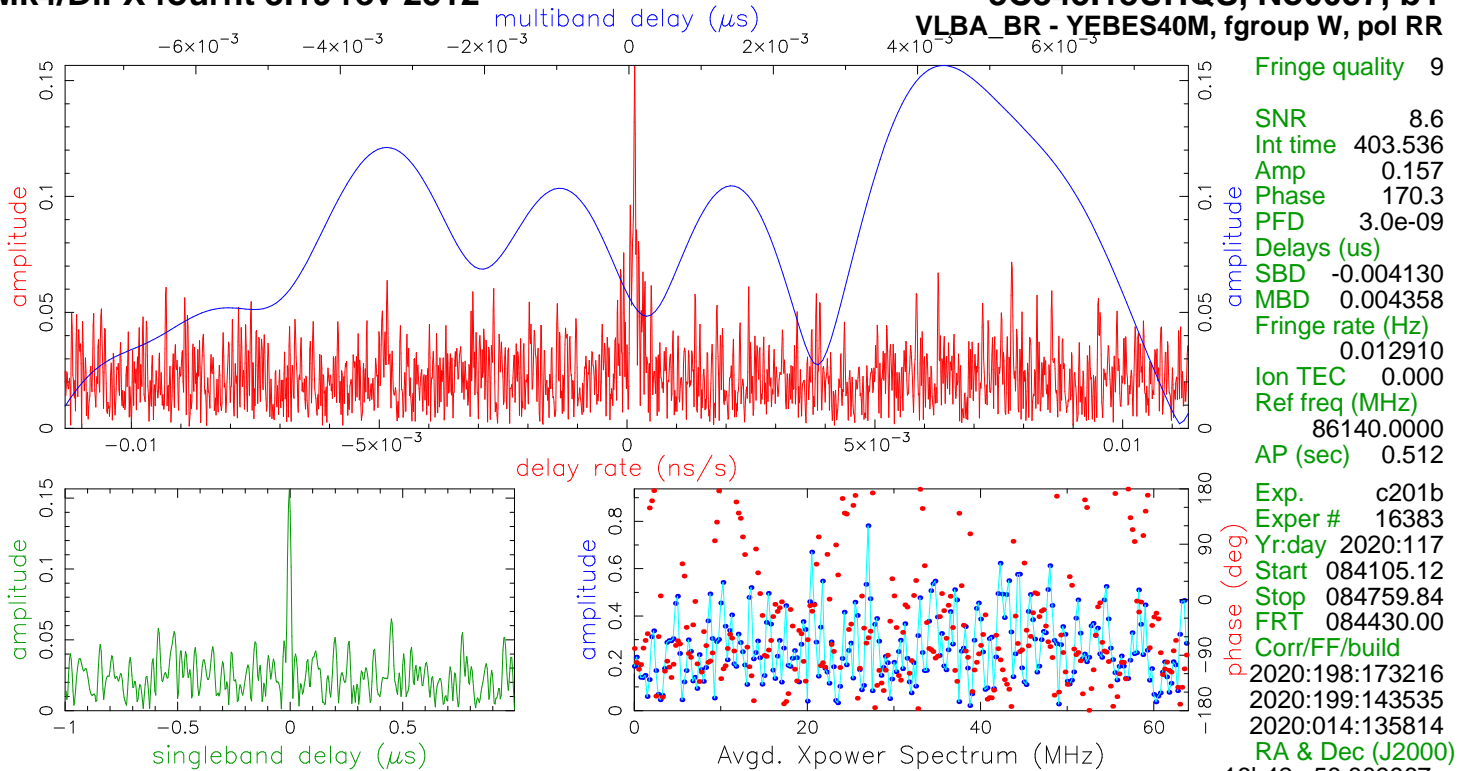
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084105.12
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143534
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

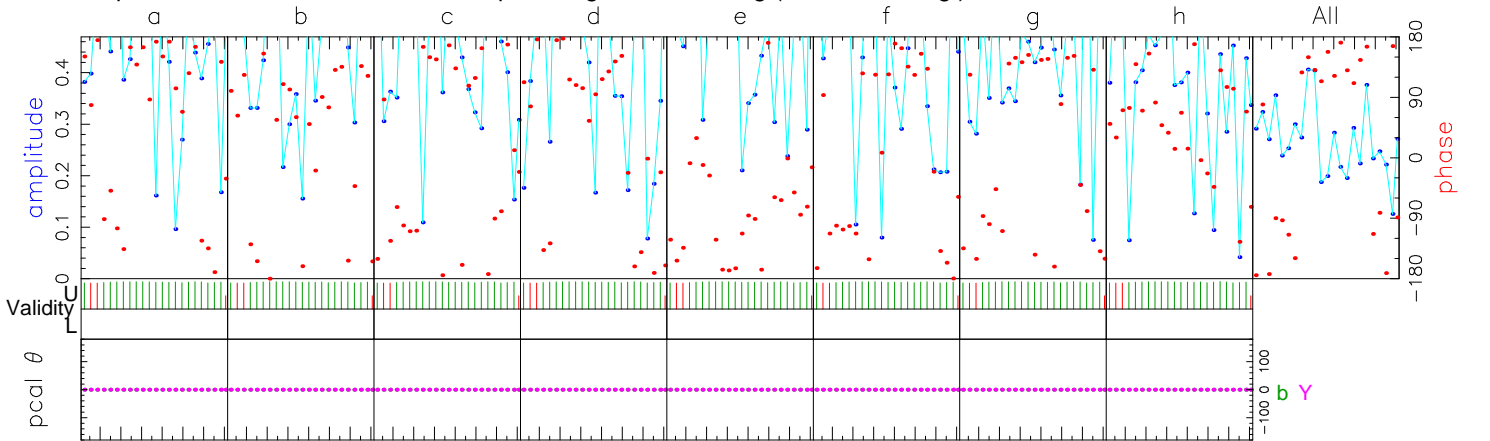


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-66.2	-86.8	-88.3	-79.9	-63.3	-54.4	-73.3	-86.3	Phase	-74.5
	1.0	1.0	0.8	1.1	1.1	0.8	1.0	0.9	Ampl.	1.0
	255.5	255.3	256.2	255.8	256.1	255.8	255.8	254.5	Sbd box	255.9
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.91428570053E+01		Apriori delay (usec)		-6.91379695016E+01		Resid mbdelay (usec)		-4.88750E-03	+/- 2.1E-05
Sband delay (usec)	-6.91424597516E+01		Apriori clock (usec)		1.0774221E+00		Resid sbdelay (usec)		-4.49025E-03	+/- 1.6E-04
Phase delay (usec)	-6.91379719026E+01		Apriori clockrate (us/s)		-4.2000000E-07		Resid phdelay (usec)		-2.40103E-06	+/- 7.1E-08
Delay rate (us/s)	1.63986436922E-01		Apriori rate (us/s)		1.63986217308E-01		Resid rate (us/s)		2.19614E-07	+/- 3.0E-10
Total phase (deg)			Apriori accel (us/s/s)		9.19384429898E-06		Resid phase (deg)		-74.5	+/- 2.2

ph/seg (deg) 68.3 5.3 Search (2048X32) 0.926 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 91.4 9.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 13.6 3.1 Inc. seg. avg. 1.496 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 13.2 5.4 Inc. frq. avg. 0.955 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 304.4 el 23.7 pa 42.9 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -1199.824 1451.288 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/BY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/BY.W.37.18UHQS



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

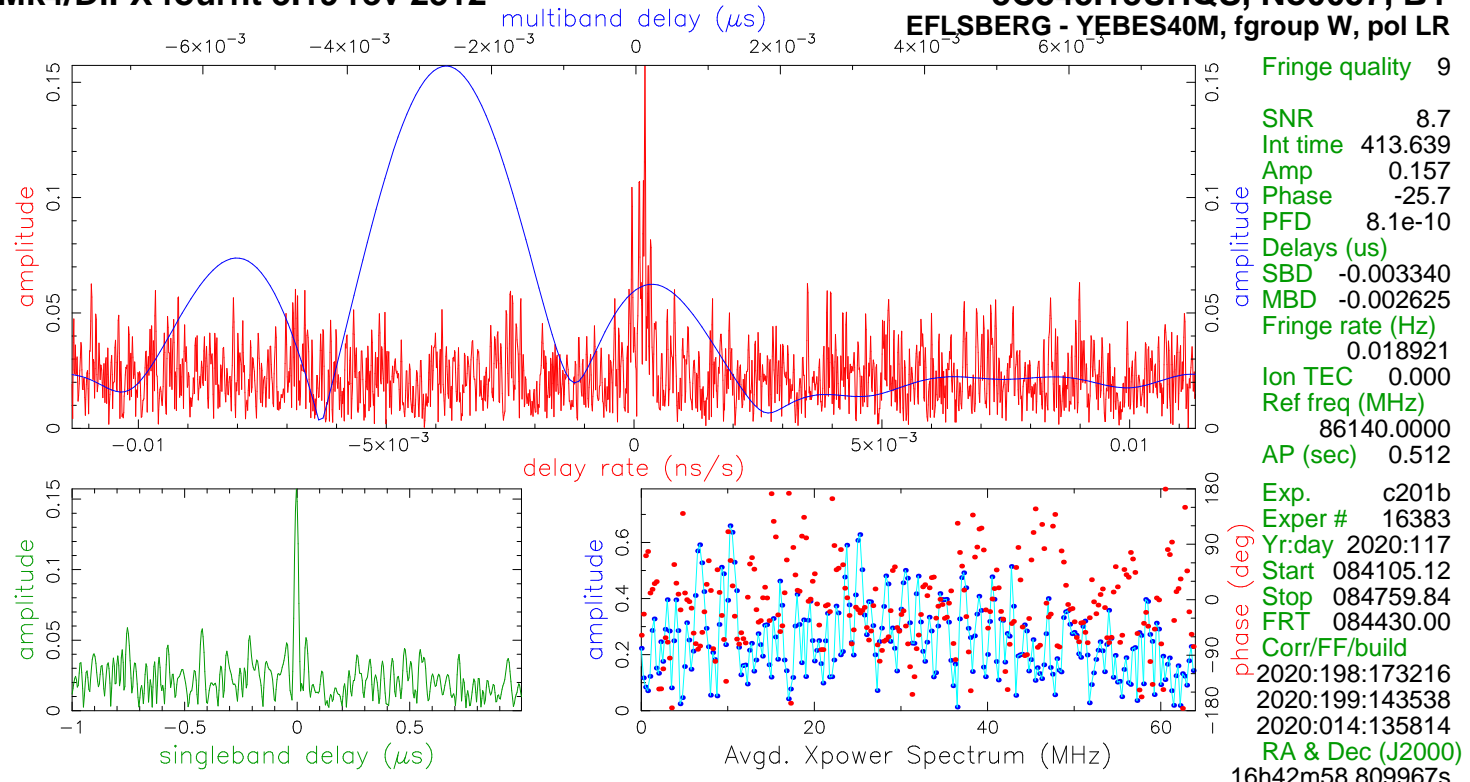


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	173.6	116.3	-160.1	151.5	-101.5	-176.0	-163.4	60.0	Phase	170.3
	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	Ampl.	0.2
	255.9	255.3	256.5	255.1	254.8	254.9	254.6	253.7	Sbd box	255.9
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.16309039857E+04		Apriori delay (usec)		1.16309152531E+04		Resid mbdelay (usec)		4.35762E-03	+/- 1.3E-04
Sband delay (usec)	1.16309111236E+04		Apriori clock (usec)		-1.3380541E+01		Resid sbdelay (usec)		-4.12950E-03	+/- 1.0E-03
Phase delay (usec)	1.16309152586E+04		Apriori clockrate (us/s)		-2.6200000E-07		Resid phdelay (usec)		5.49194E-06	+/- 4.3E-07
Delay rate (us/s)	1.24009364520E+00		Apriori rate (us/s)		1.24009349534E+00		Resid rate (us/s)		1.49867E-07	+/- 1.8E-09
Total phase (deg)	134.4		Apriori accel (us/s/s)		-5.50675932710E-05		Resid phase (deg)		170.3	+/- 13.3

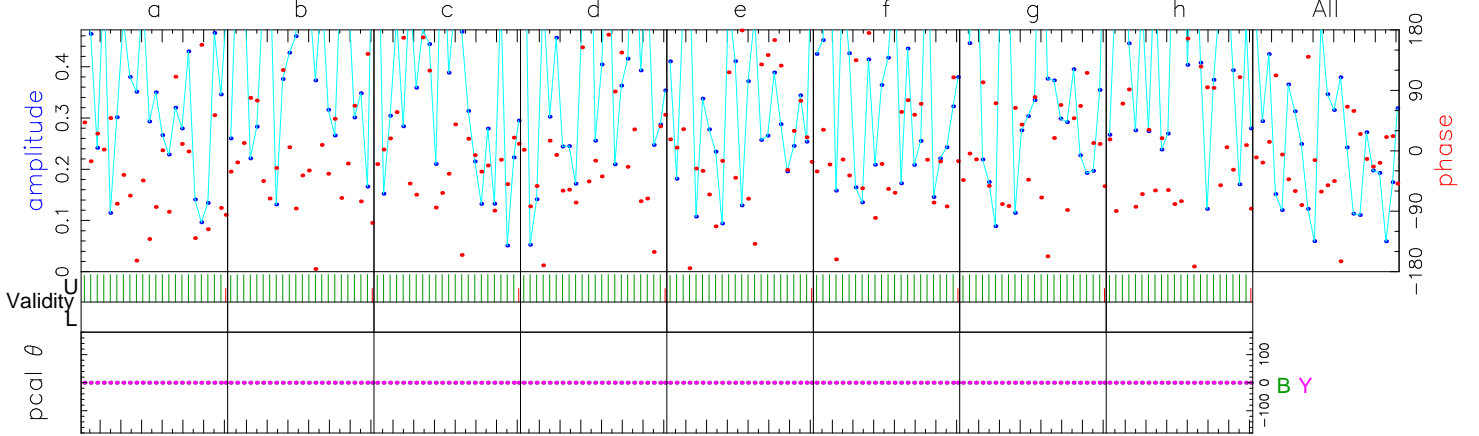
	RMS	Theor.	Amplitude	0.157 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	57.0	32.0	Search (2048X32)	0.149	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	84.8	55.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	64.5	18.8	Inc. seg. avg.	0.233	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	61.6	32.9	Inc. frq. avg.	0.238	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 104.8 el 69.8 pa -57.1 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -9355.029 -2814.608 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bY.W.42.18UHQS



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

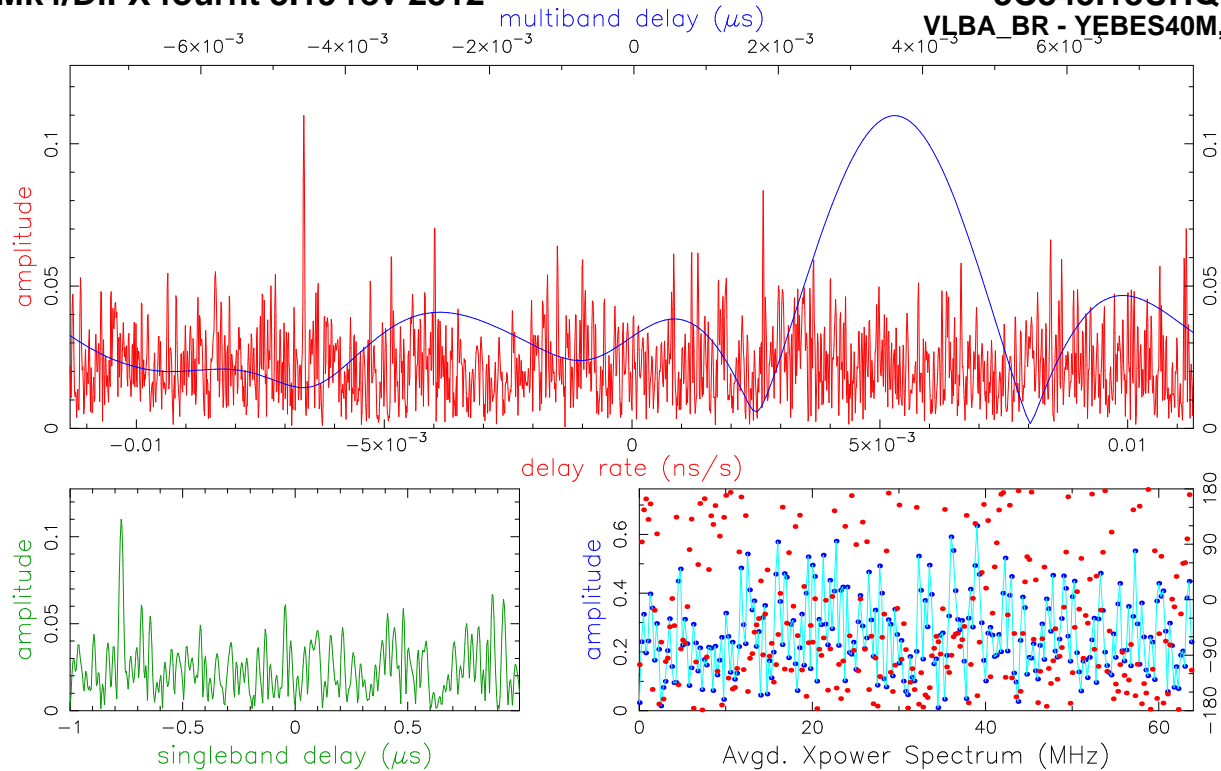


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-30.8	-27.3	-18.9	-31.3	17.6	-16.9	-25.1	-40.8	Phase	-25.7
	0.2	0.3	0.2	0.1	0.0	0.2	0.2	0.1	Ampl.	0.2
	337.3	255.9	324.1	22.1	476.0	255.8	256.3	64.2	Sbd box	256.1
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.91405940991E+01		Apriori delay (usec)		-6.91379695016E+01		Resid mbdelay (usec)		-2.62460E-03	+/- 1.2E-04
Sband delay (usec)	-6.91413100016E+01		Apriori clock (usec)		1.0774221E+00		Resid sbdelay (usec)		-3.34050E-03	+/- 9.8E-04
Phase delay (usec)	-6.91379703291E+01		Apriori clockrate (us/s)		-4.2000000E-07		Resid phdelay (usec)		-8.27545E-07	+/- 4.2E-07
Delay rate (us/s)	1.63986436967E-01		Apriori rate (us/s)		1.63986217308E-01		Resid rate (us/s)		2.19659E-07	+/- 1.8E-09
Total phase (deg)			Apriori accel (us/s/s)		9.19384429898E-06		Resid phase (deg)		-25.7	+/- 13.1

	RMS	Theor.	Amplitude	0.157 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
ph/seg (deg)	66.0	31.4	Search (2048X32)	0.151	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
amp/seg (%)	100.2	54.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	19.5	18.5	Inc. seg. avg.	0.218	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011
amp/frq (%)	37.8	32.3	Inc. frq. avg.	0.151	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

B: az 304.4 el 23.7 pa 42.9 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -1199.824 1451.288 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/BY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/BY.W.58.18UHQS

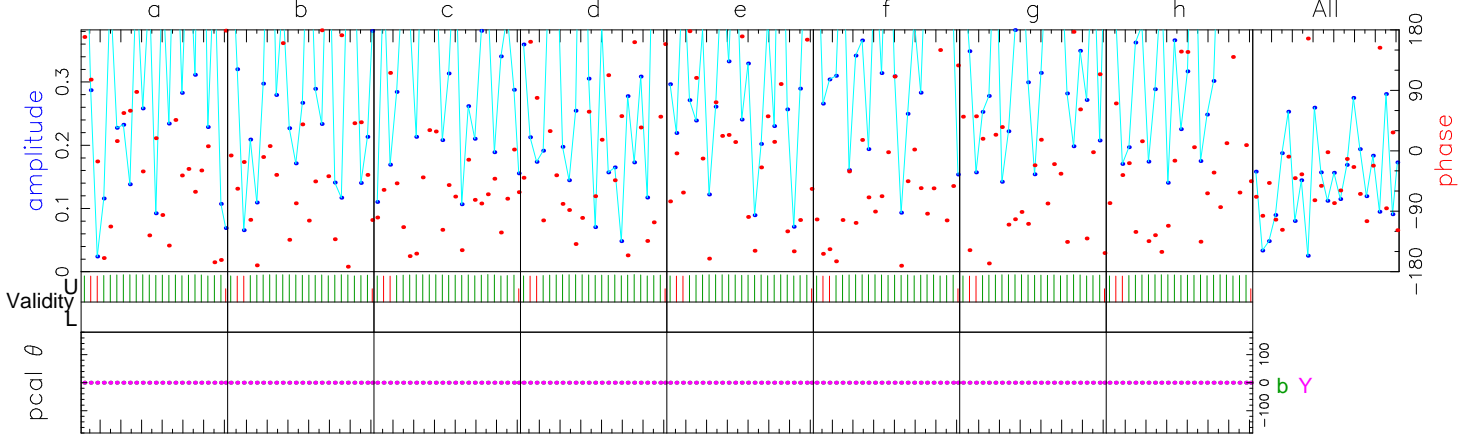


Fringe quality 0

SNR 6.1
 Int time 403.537
 Amp 0.128
 Phase -56.0
 PFD 3.0e-01
 Delays (us)
 SBD -0.772524
 MBD 0.003626
 Fringe rate (Hz)
 -0.571122
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084105.12
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143539
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

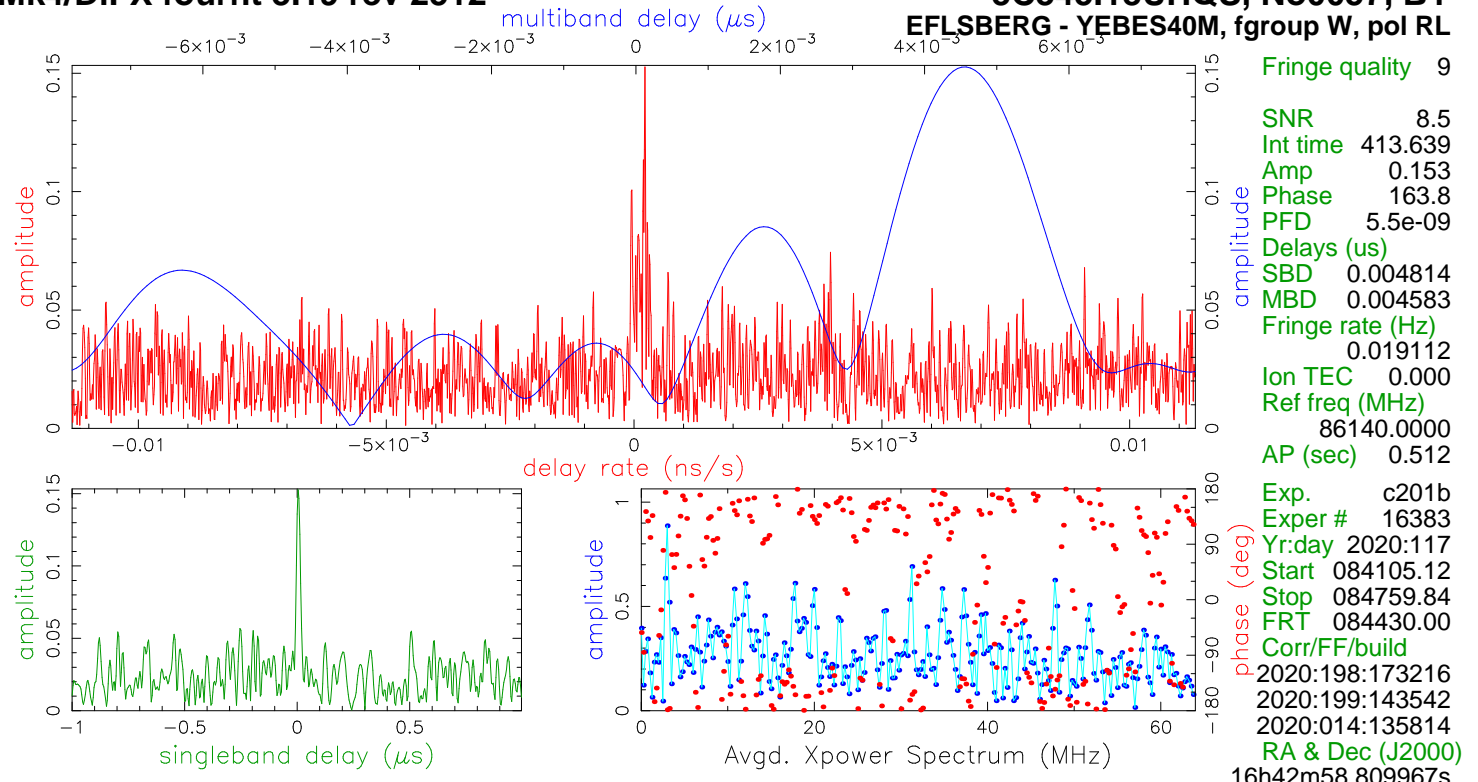


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-49.6	-48.0	-63.3	-58.7	11.4	-81.0	-44.6	-50.4	Phase	-56.0
	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1
	281.8	116.9	59.5	51.5	452.2	60.1	388.8	351.6	Sbd box	59.2
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.16301376289E+04		Apriori delay (usec)		1.16309152531E+04		Resid mbdelay (usec)		3.62579E-03	+/- 1.8E-04
Sband delay (usec)	1.16301427286E+04		Apriori clock (usec)		-1.3380541E+01		Resid sbdelay (usec)		-7.72524E-01	+/- 1.4E-03
Phase delay (usec)	1.16309152513E+04		Apriori clockrate (us/s)		-2.6200000E-07		Resid phdelay (usec)		-1.80470E-06	+/- 6.1E-07
Delay rate (us/s)	1.24008686518E+00		Apriori rate (us/s)		1.24009349534E+00		Resid rate (us/s)		-6.63015E-06	+/- 2.5E-09
Total phase (deg)	268.1		Apriori accel (us/s/s)		-5.50675932710E-05		Resid phase (deg)		-56.0	+/- 18.9

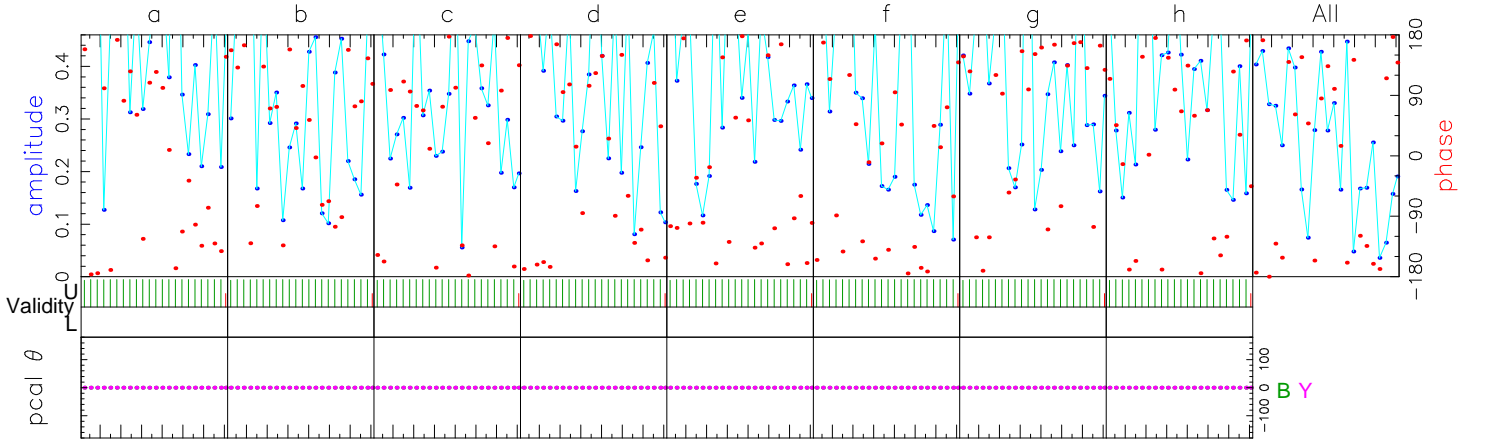
	RMS	Theor.	Amplitude	0.128 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	56.6	45.3	Search (2048X32)	0.108	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/seg (%)	73.8	79.1	Interp.	0.000	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	30.3	26.7	Inc. seg. avg.	0.130	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	48.1	46.7	Inc. frq. avg.	0.123					

b: az 104.8 el 69.8 pa -57.1 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -9355.029 -2814.608 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/bY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/bY.W.61.18UHQS



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



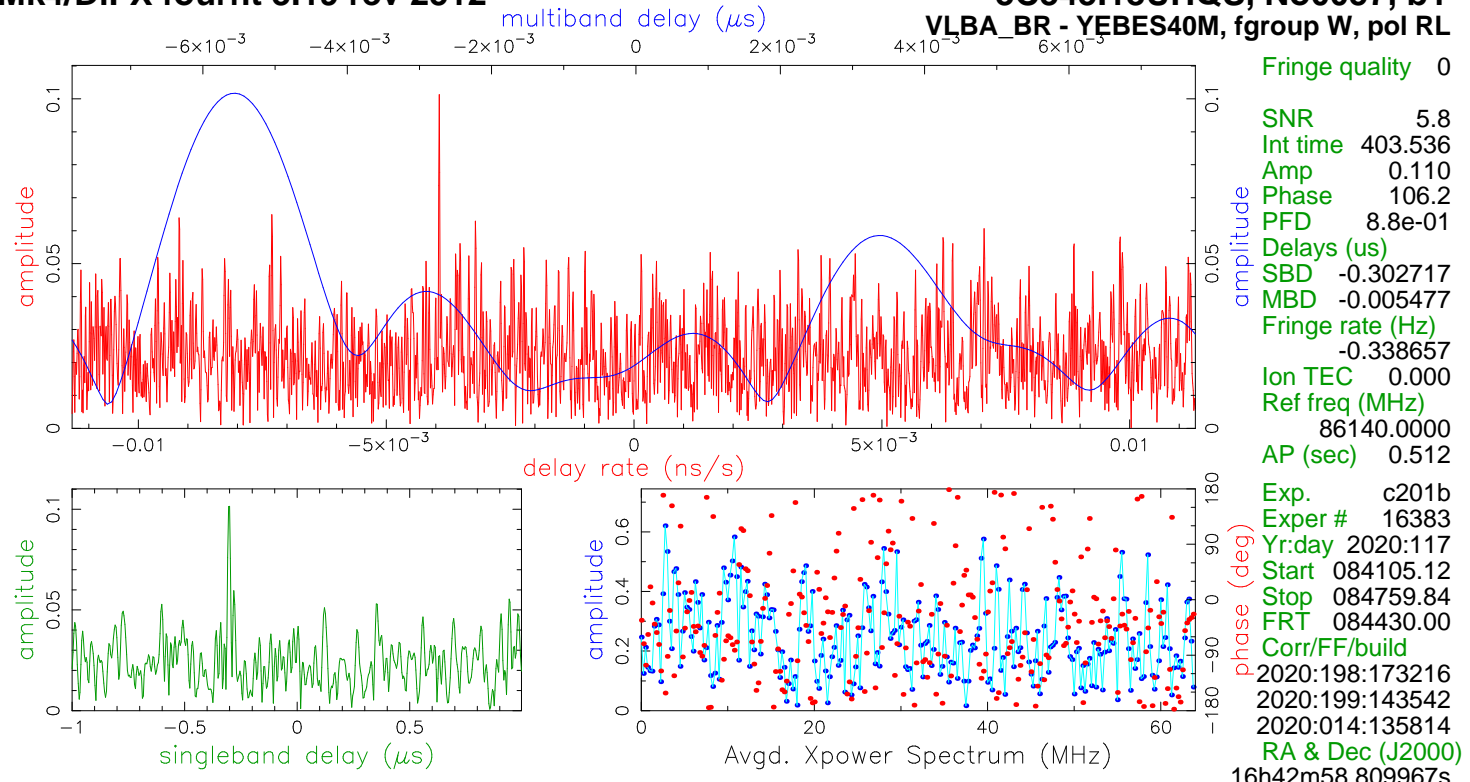
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	169.7	139.0	127.1	172.5	-138.1	162.6	158.3	131.9	Phase	163.8
	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.1	Ampl.	0.2
	257.8	266.2	177.1	258.5	259.3	252.4	257.4	454.0	Sbd box	258.2
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-6.91333868803E+01	Apriori delay (usec)	-6.91379695016E+01	Resid mbdelay (usec)	4.58262E-03	+/-	1.3E-04
Sband delay (usec)	-6.91331552516E+01	Apriori clock (usec)	1.0774221E+00	Resid sbdelay (usec)	4.81425E-03	+/-	1.0E-03
Phase delay (usec)	-6.91379642185E+01	Apriori clockrate (us/s)	-4.2000000E-07	Resid phdelay (usec)	5.28301E-06	+/-	4.3E-07
Delay rate (us/s)	1.63986439184E-01	Apriori rate (us/s)	1.63986217308E-01	Resid rate (us/s)	2.21876E-07	+/-	1.8E-09
Total phase (deg)	-85.6	Apriori accel (us/s/s)	9.19384429898E-06	Resid phase (deg)	163.8	+/-	13.4

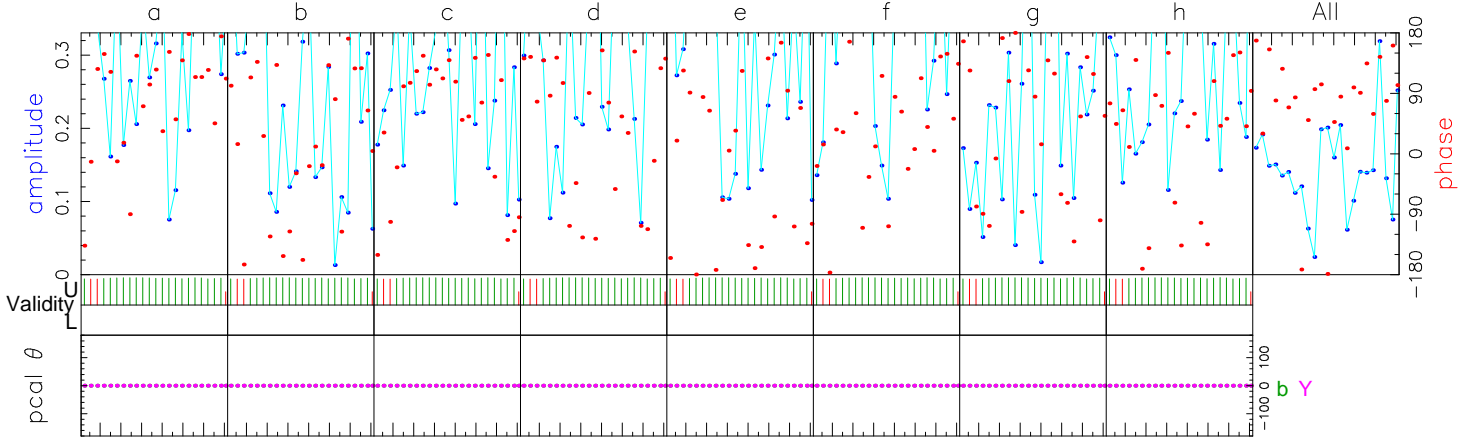
ph/seg (deg)	RMS 60.9	Theor. 32.2	Amplitude Search (2048X32)	0.153 +/- 0.018	0.151	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	108.3	56.2	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	32.9	19.0	Inc. seg. avg.	0.220	0.220	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	32.8	33.2	Inc. frq. avg.	0.164	0.164	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 304.4 el 23.7 pa 42.9 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -1199.824 1451.288 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/BY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/BY.W.77.18UHQS



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

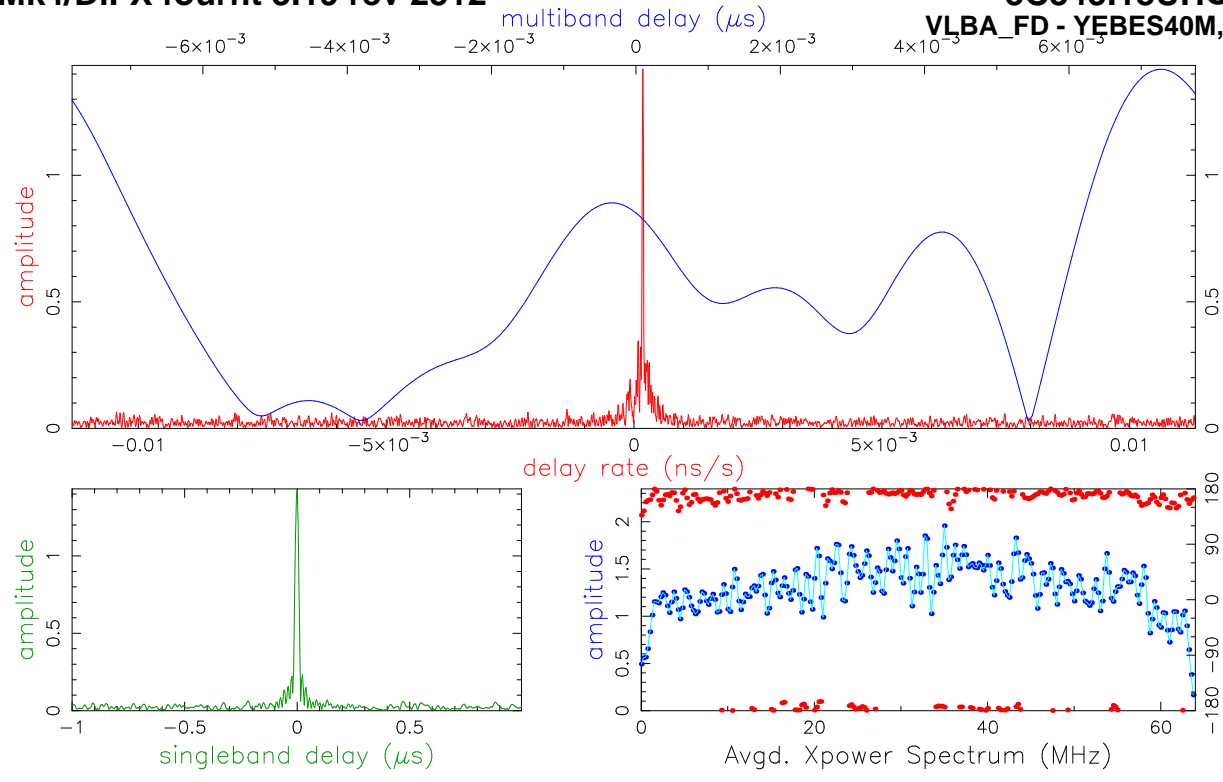


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	0.1
Y	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	179.5
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
b:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
Y	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	1.16306129012E+04					1.16309152531E+04			Resid mbdelay (usec)	-5.47689E-03 +/- 1.9E-04
Sband delay (usec)	1.16306125361E+04					-1.3380541E+01			Resid sbdelay (usec)	-3.02717E-01 +/- 1.5E-03
Phase delay (usec)	1.16309152565E+04					-2.6200000E-07			Resid phdelay (usec)	3.42425E-06 +/- 6.4E-07
Delay rate (us/s)	1.24008956386E+00					1.24009349534E+00			Resid rate (us/s)	-3.93147E-06 +/- 2.7E-09
Total phase (deg)		70.3				-5.50675932710E-05			Resid phase (deg)	106.2 +/- 19.9

	RMS	Theor.	Amplitude	0.110 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000 1.000
ph/seg (deg)	48.4	47.7	Search (2048X32)	0.100	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008 0.008
amp/seg (%)	70.0	83.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011 0.011
ph/frq (deg)	35.1	28.1	Inc. seg. avg.	0.113	Sample rate(MISamp/s): 128		ion window (TEC)	0.00 0.00
amp/frq (%)	31.4	49.1	Inc. frq. avg.	0.109	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		

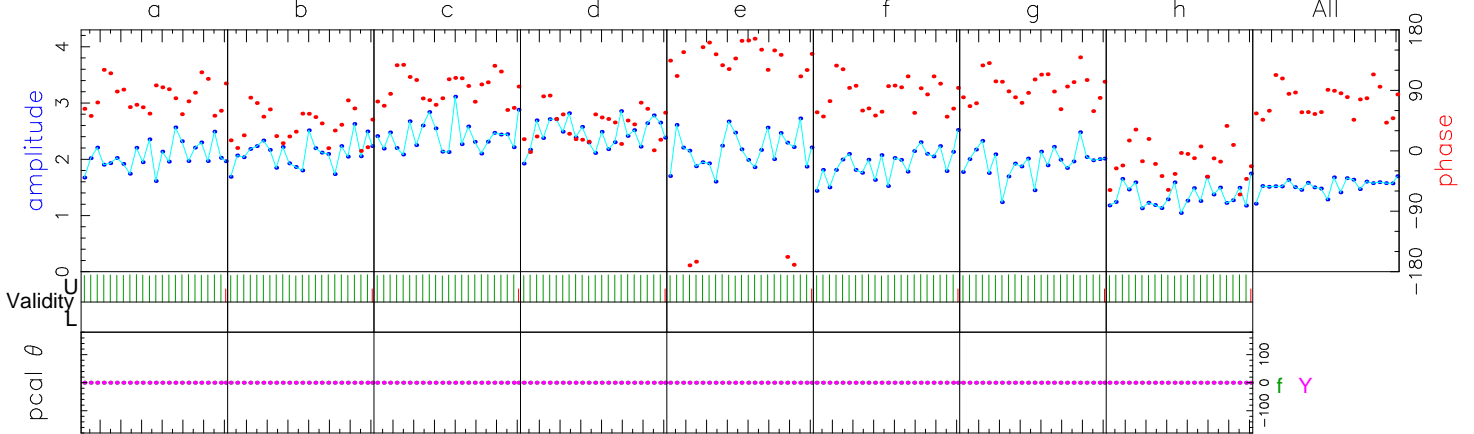
Mk4/DiFX fourfit 3.19 rev 2512

3C345.18UHQS, No0057, fY
VLBA_FD - YEBES40M, fgroup W, pol RR



Fringe quality 5
SNR 79.1
Int time 406.745
Amp 1.434
Phase 74.0
PFD 0.0e+00
Delays (us)
SBD -0.001351
MBD 0.007247
Fringe rate (Hz) 0.014973
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201b
Yr:day 2020:117
Start 084105.12
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143552
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



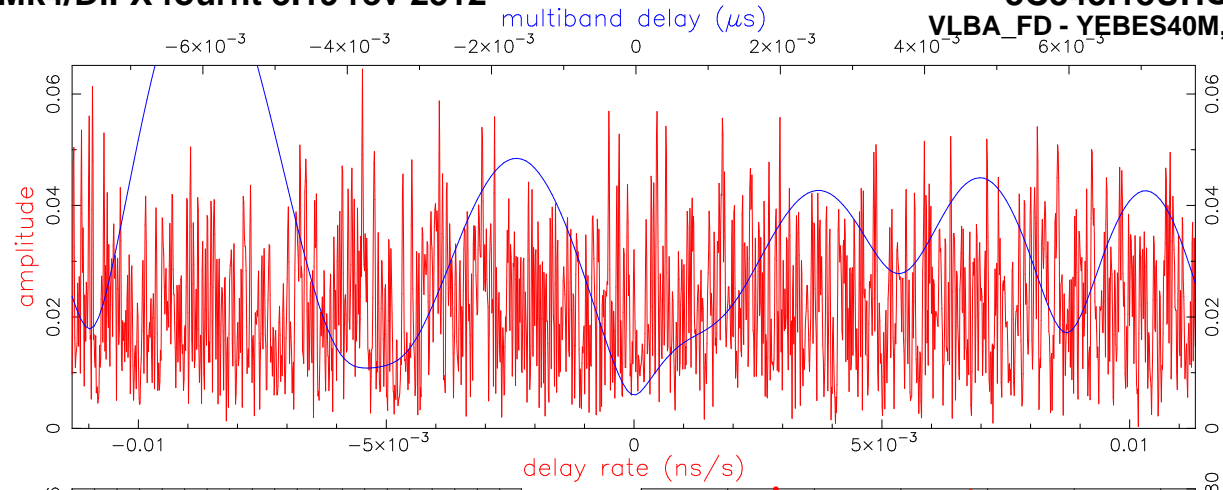
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	79.9	37.4	93.3	36.9	148.1	83.1	94.4	-16.2		74.0
	1.9	1.9	2.3	2.3	1.9	1.8	1.8	1.2		1.9
	256.7	255.9	256.6	256.3	256.1	256.0	255.7	254.3	Sbd box	256.7
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.24246786379E+04		Apriori delay (usec)		1.24246870162E+04		Resid mbdelay (usec)		7.24675E-03	+/- 1.4E-05
Sband delay (usec)	1.24246856654E+04		Apriori clock (usec)		-8.0724812E+00		Resid sbdelay (usec)		-1.35075E-03	+/- 1.1E-04
Phase delay (usec)	1.24246870186E+04		Apriori clockrate (us/s)		-1.1100000E-07		Resid phdelay (usec)		2.38764E-06	+/- 4.7E-08
Delay rate (us/s)	1.06673339102E+00		Apriori rate (us/s)		1.06673321720E+00		Resid rate (us/s)		1.73820E-07	+/- 2.0E-10
Total phase (deg)	280.3		Apriori accel (us/s/s)		-7.62218995847E-05		Resid phase (deg)		74.0	+/- 1.4

ph/seg (deg) 21.7 3.5 Search (2048X32) 1.377 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 10.1 6.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 53.6 2.0 Inc. seg. avg. 1.524 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 38.1 3.6 Inc. frq. avg. 1.883 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
f: az 39.2 el 77.7 pa -133.6 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -8112.950 -5816.757 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/fY...18UHQS Output file: /Exps/c201b/v1/1234/No0057/fY.W.104.18UHQS simultaneous interpolator

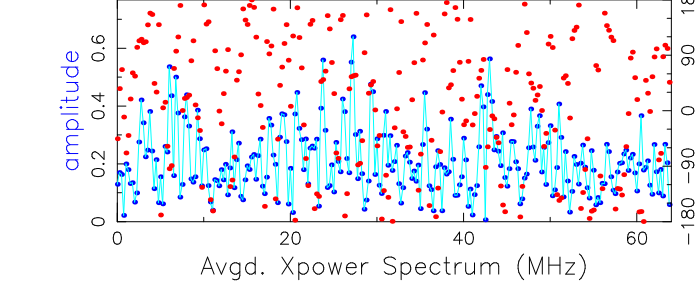
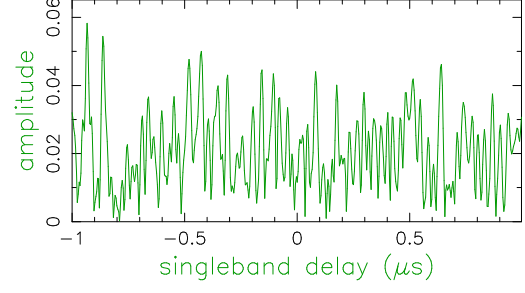
Mk4/DiFX fourfit 3.19 rev 2512

3C345.18UHQS, No0057, fY

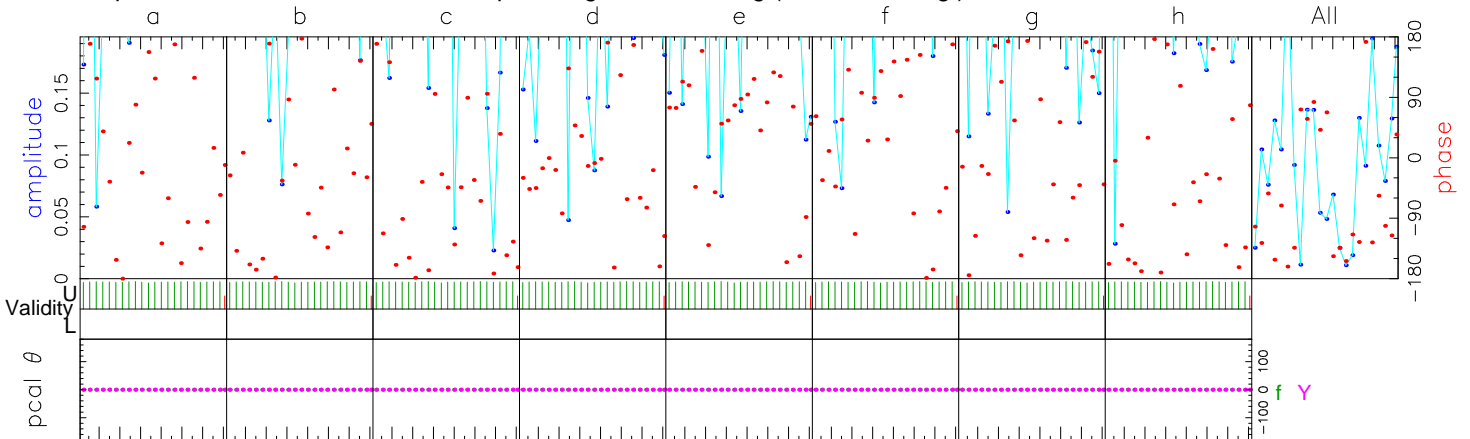
VLBA_FD - YEYES40M, fgroup W, pol LR



Fringe quality 0
 SNR 2.4
 Int time 406.745
 Amp 0.065
 Phase -129.1
 PFD 1.0e+00
 Delays (us)
 SBD -0.105005
 MBD 0.007324
 Fringe rate (Hz)
 0.928879
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084105.12
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143556
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

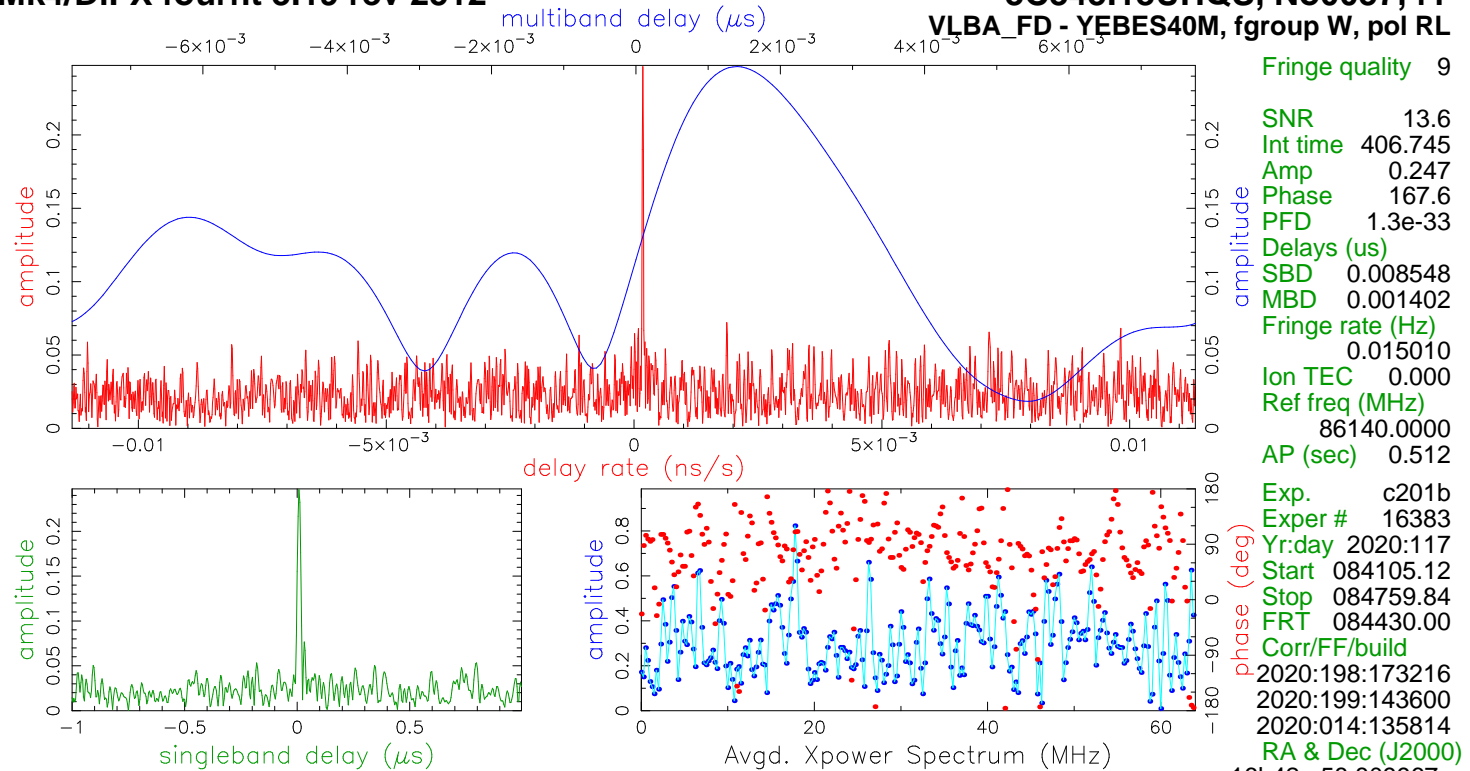


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-137.1	-109.8	-108.4	-29.0	98.3	74.6	-92.4	-153.3	Phase	-129.1
	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	Ampl.	0.1
	327.1	229.7	477.1	233.0	165.5	164.1	364.6	276.6	Sbd box	230.1
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

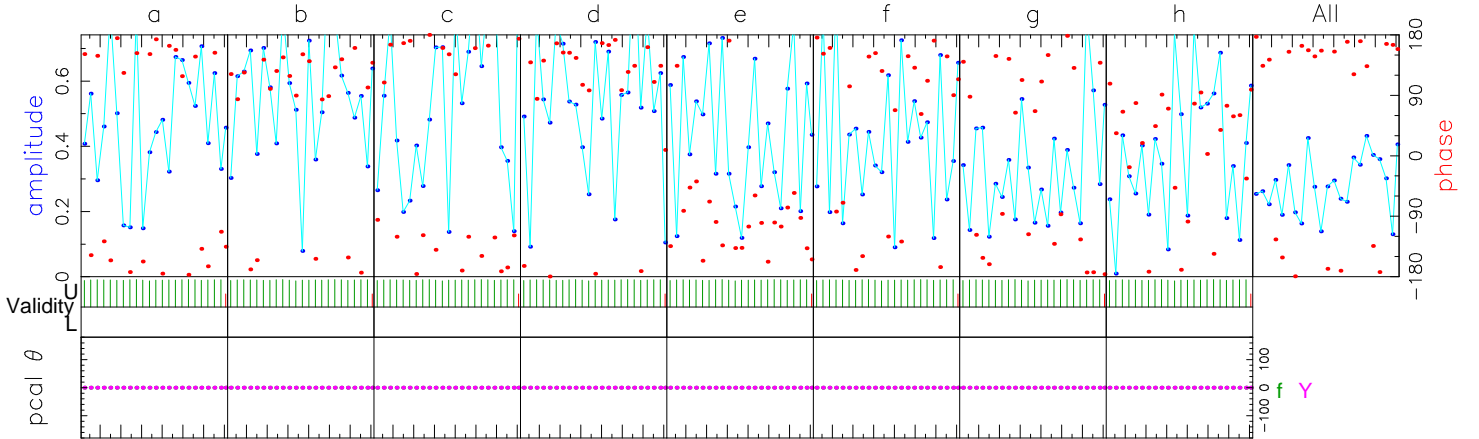
Group delay (usec)(sbd)	1.24245849654E+04	Apriori delay (usec)	1.24246870162E+04	Resid mbdelay (usec)	7.32422E-03	+/-	4.5E-04
Sband delay (usec)	1.24245820112E+04	Apriori clock (usec)	-8.0724812E+00	Resid sbdelay (usec)	-1.05005E-01	+/-	3.6E-03
Phase delay (usec)	1.24246870120E+04	Apriori clockrate (us/s)	-1.1100000E-07	Resid phdelay (usec)	-4.16331E-06	+/-	1.5E-06
Delay rate (us/s)	1.06674400056E+00	Apriori rate (us/s)	1.06673321720E+00	Resid rate (us/s)	1.07834E-05	+/-	6.4E-09
Total phase (deg)	77.1	Apriori accel (us/s/s)	-7.62218995847E-05	Resid phase (deg)	-129.1	+/-	47.8

ph/seg (deg)	86.4	Theor.	114.6	Amplitude	0.065 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5			
amp/seg (%)	182.3	Search (2048X32)	0.106	Search	0.106	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000			
ph/frq (deg)	95.6	Inc. seg. avg.	0.047	Inc. seg. avg.	0.047	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008		
amp/frq (%)	166.4	Inc. frq. avg.	0.092	Inc. frq. avg.	0.092	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

f: az 39.2 el 77.7 pa -133.6 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -8112.950 -5816.757 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/fY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/fY.W.124.18UHQS



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



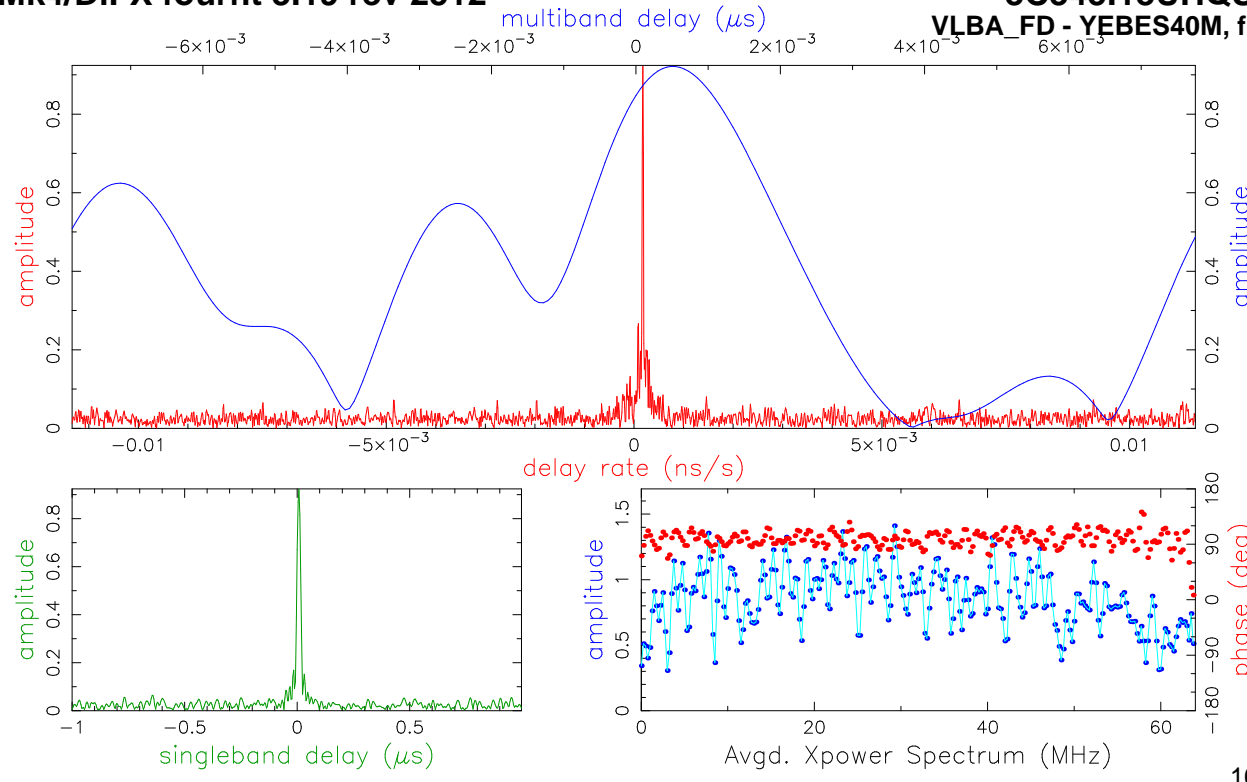
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	177.2	134.9	-173.8	146.2	-101.0	165.1	177.0	51.1	Phase	167.6
	0.4	0.4	0.4	0.5	0.3	0.2	0.2	0.2	Ampl.	0.3
	259.3	258.6	258.9	258.6	258.3	258.4	257.7	256.9	Sbd box	259.2
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.24246884186E+04	Apriori delay (usec)	1.24246870162E+04	Resid mbdelay (usec)	1.40247E-03	+/-	8.0E-05
Sband delay (usec)	1.24246955639E+04	Apriori clock (usec)	-8.0724812E+00	Resid sbdelay (usec)	8.54775E-03	+/-	6.3E-04
Phase delay (usec)	1.24246870216E+04	Apriori clockrate (us/s)	-1.1100000E-07	Resid phdelay (usec)	5.40494E-06	+/-	2.7E-07
Delay rate (us/s)	1.06673339145E+00	Apriori rate (us/s)	1.06673321720E+00	Resid rate (us/s)	1.74253E-07	+/-	1.1E-09
Total phase (deg)	13.8	Apriori accel (us/s/s)	-7.62218995847E-05	Resid phase (deg)	167.6	+/-	8.4

ph/seg (deg)	27.9	Theor.	20.1	Amplitude	0.247 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	37.0	Search (2048X32)	0.240	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	63.2	Inc. seg. avg.	0.265	Inc. frq. avg.	0.328	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	57.0	Inc. frq. avg.	0.328	Sample rate(MISamp/s): 128		Data rate(Mb/s): 2048	nlags: 256
				ion window (TEC)	0.00	0.00	

f: az 39.2 el 77.7 pa -133.6 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -8112.950 -5816.757 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/fY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/fY.W.142.18UHQS

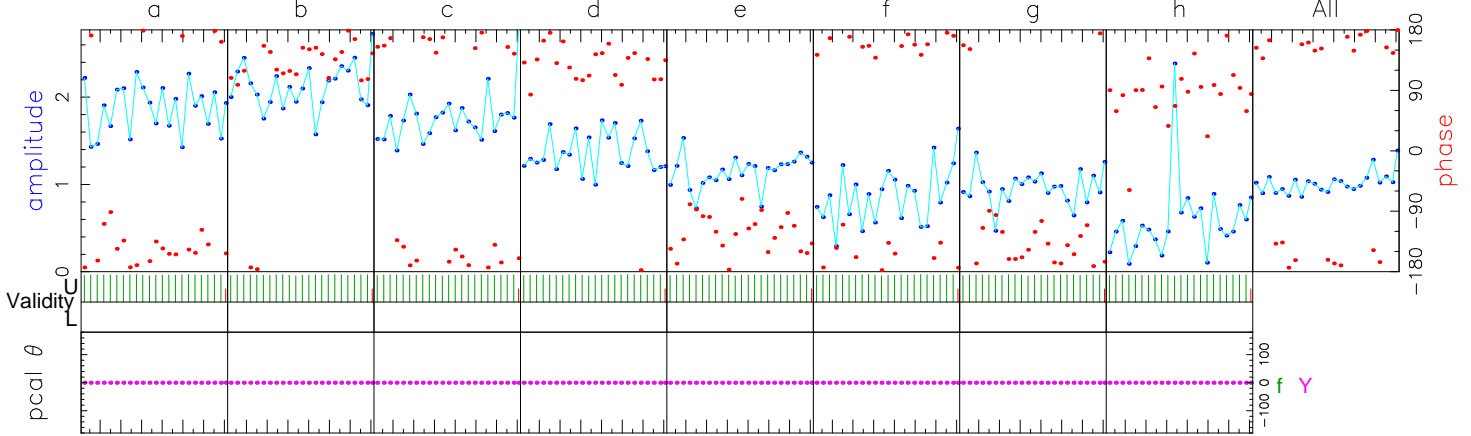


Fringe quality 3

SNR 51.0
Int time 406.745
Amp 0.924
Phase 175.6
PFD 0.0e+00
Delays (us)
SBD 0.007142
MBD 0.000491
Fringe rate (Hz) 0.014896
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084105.12
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143547
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



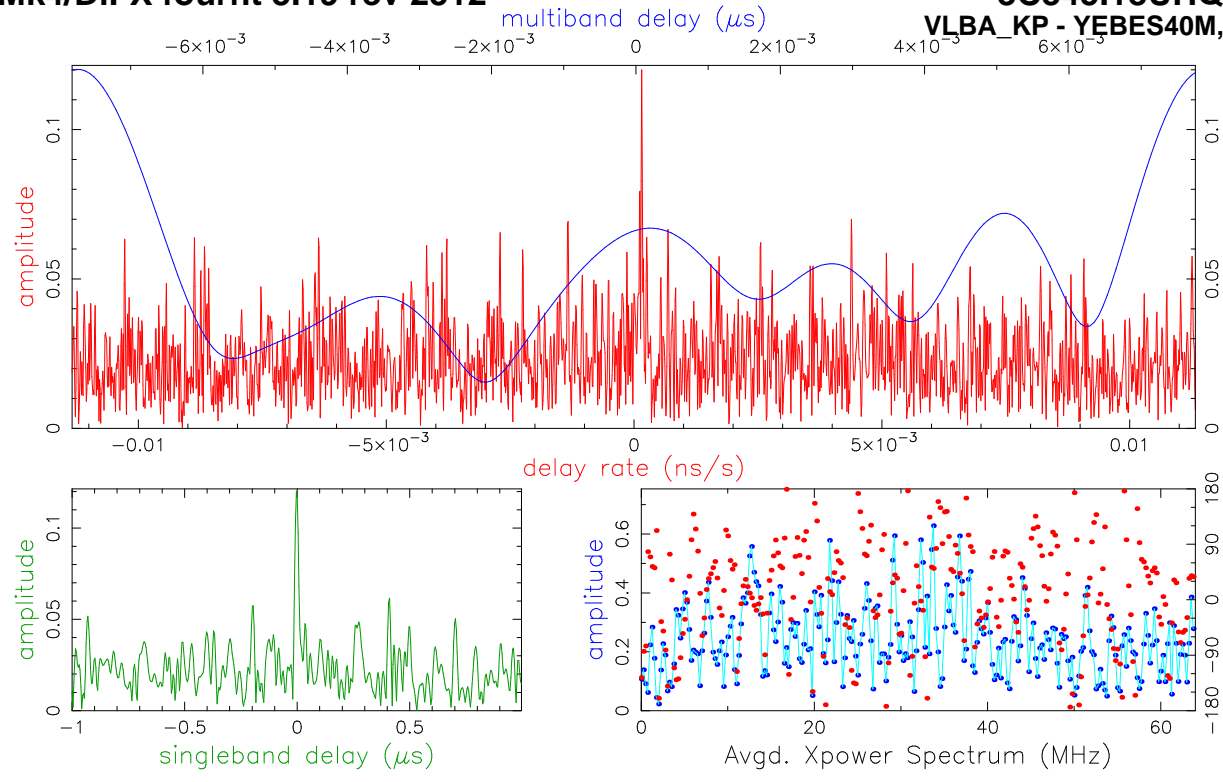
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-154.5	137.2	-178.2	133.4	-123.0	-176.6	-147.6	87.9	Phase	175.6
	1.7	1.9	1.6	1.2	1.0	0.8	0.8	0.5	Ampl.	1.2
	258.7	258.3	258.7	258.2	258.8	258.5	258.0	256.5	Sbd box	258.8
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.24246875074E+04	Apriori delay (usec)	1.24246870162E+04	Resid mbdelay (usec)	4.91278E-04	+/-	2.1E-05
Sband delay (usec)	1.24246941584E+04	Apriori clock (usec)	-8.0724812E+00	Resid sbdelay (usec)	7.14225E-03	+/-	1.7E-04
Phase delay (usec)	1.24246870218E+04	Apriori clockrate (us/s)	-1.1100000E-07	Resid phdelay (usec)	5.66223E-06	+/-	7.3E-08
Delay rate (us/s)	1.06673339012E+00	Apriori rate (us/s)	1.06673321720E+00	Resid rate (us/s)	1.72923E-07	+/-	3.0E-10
Total phase (deg)	21.8	Apriori accel (us/s/s)	-7.62218995847E-05	Resid phase (deg)	175.6	+/-	2.2

ph/seg (deg)	24.6	Theor.	5.4	Amplitude	0.924 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	14.9		9.4	Search (2048X32)	0.883	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	53.3		3.2	Inc. seg. avg.	1.006	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	58.1		5.6	Inc. frq. avg.	1.189	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

f: az 39.2 el 77.7 pa -133.6 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -8112.950 -5816.757 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/fY...18UHQS Output file: /Exps/c201b/v1/1234/No0057/fY.W.86.18UHQS

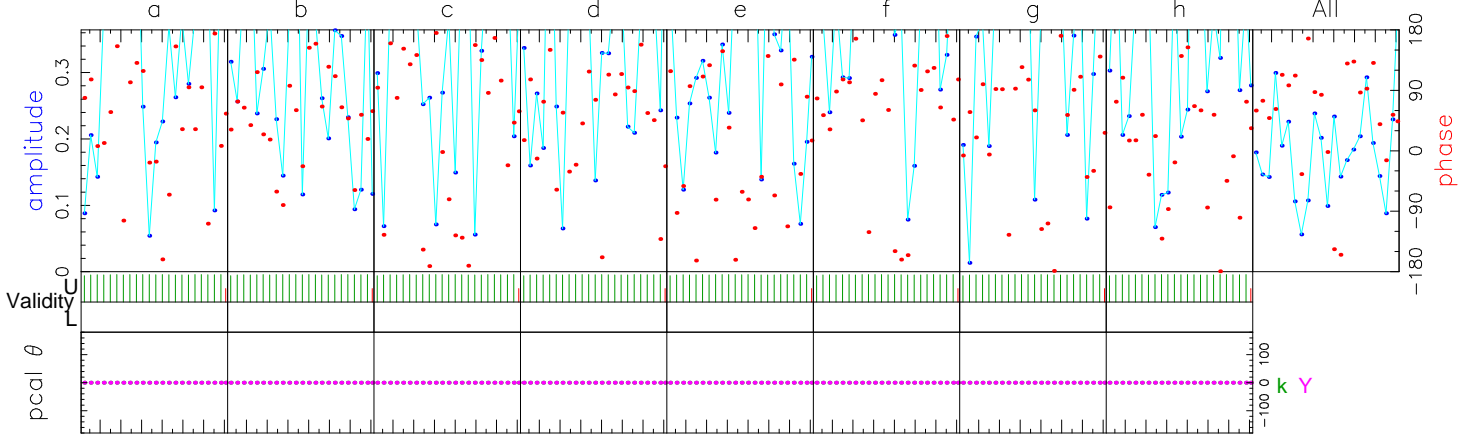


Fringe quality 0

SNR 6.7
 Int time 411.194
 Amp 0.121
 Phase 88.3
 PFD 4.7e-03
 Delays (us)
 SBD -0.002434
 MBD -0.007685
 Fringe rate (Hz)
 0.013805
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

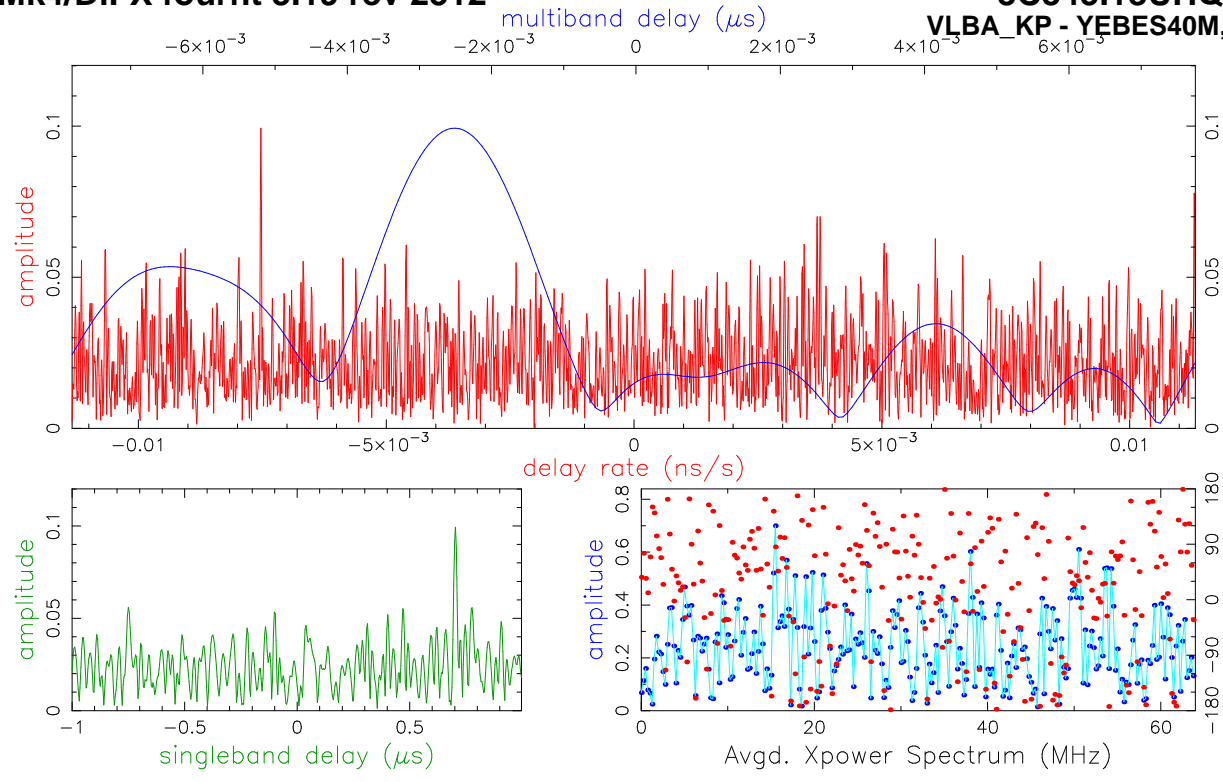
Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084105.12
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143554
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



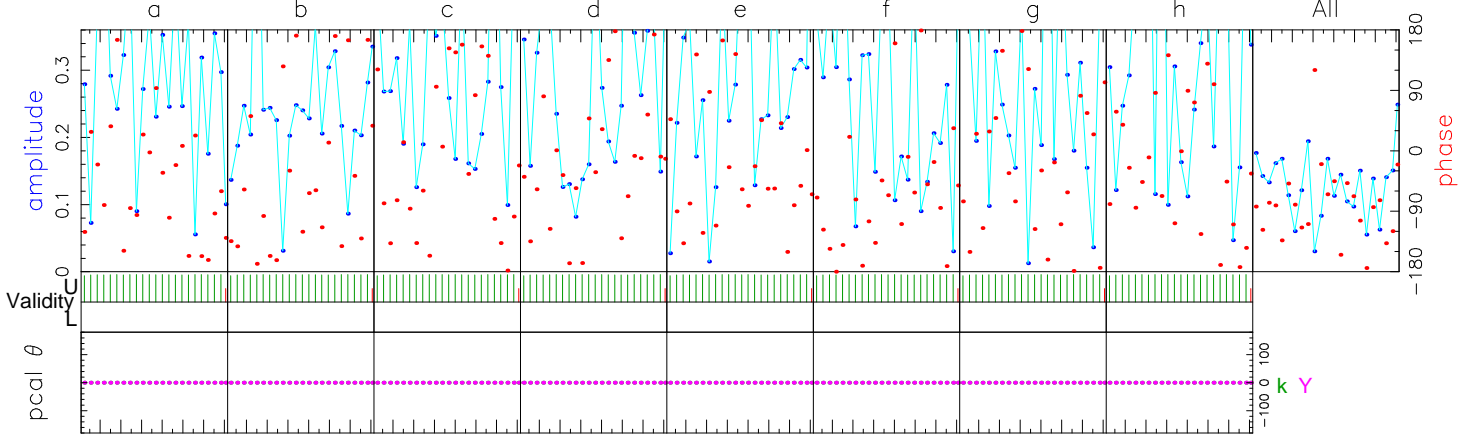
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0			
k	1000	1000	1000	1000	1000	1000	1000	1000			
Y	1000	1000	1000	1000	1000	1000	1000	1000			
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
k	1000	1000	1000	1000	1000	1000	1000	1000			
Y	1000	1000	1000	1000	1000	1000	1000	1000			
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)		1.20854279550E+04				1.20854356398E+04			Resid mbdelay (usec)	-7.68488E-03	+/- 1.6E-04
Sband delay (usec)		1.20854332063E+04				-1.2316931E+01			Resid sbdelay (usec)	-2.43350E-03	+/- 1.3E-03
Phase delay (usec)		1.20854356427E+04				-2.1460000E-07			Resid phdelay (usec)	2.84841E-06	+/- 5.5E-07
Delay rate (us/s)		1.19664500454E+00				1.19664484428E+00			Resid rate (us/s)	1.60263E-07	+/- 2.3E-09
Total phase (deg)			93.7			-7.30180438590E-05			Resid phase (deg)	88.3	+/- 17.0

	RMS	Theor.	Amplitude	0.121 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	61.2	40.8	Search (2048X32)	0.111	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	75.1	71.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	60.0	24.1	Inc. seg. avg.	0.144	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	52.6	42.0	Inc. frq. avg.	0.143	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00



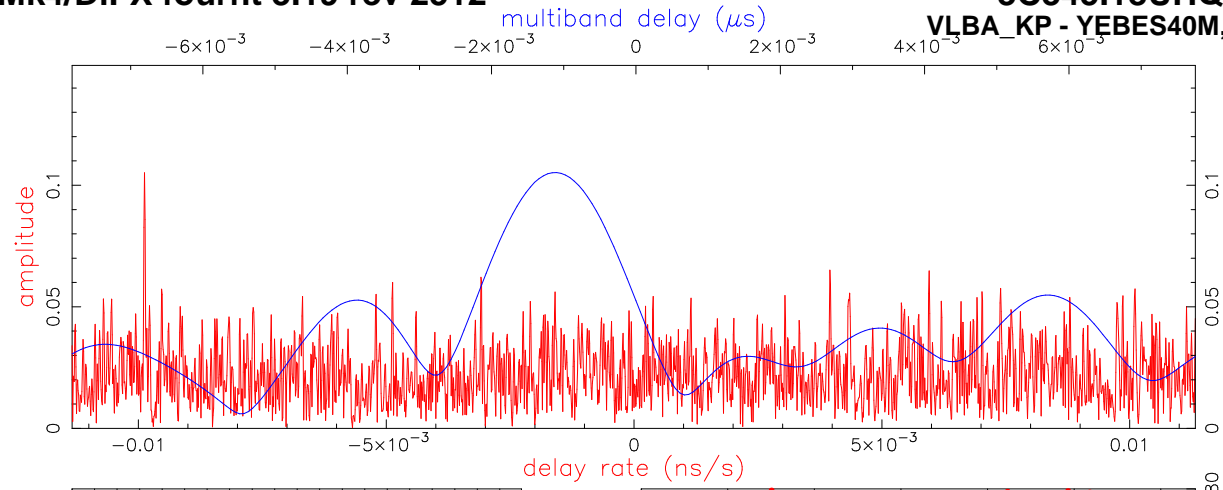
Fringe quality 0
 SNR 5.5
 Int time 411.194
 Amp 0.120
 Phase -91.7
 PFD 1.0e+00
 Delays (us)
 SBD 0.702766
 MBD -0.002527
 Fringe rate (Hz)
 -0.649655
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084105.12
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143558
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 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
	-68.7	-129.3	-132.1	-37.3	-76.6	-99.4	-131.9	-69.8	Phase	-91.7
	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	Ampl.	0.1
	162.7	19.7	474.7	383.5	321.7	202.6	212.9	495.1	Sbd box	436.9
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.20861362378E+04		Apriori delay (usec)		1.20854356398E+04		Resid mbdelay (usec)		-2.52704E-03	+/- 2.0E-04
Sband delay (usec)	1.20861384063E+04		Apriori clock (usec)		-1.2316931E+01		Resid sbdelay (usec)		7.02766E-01	+/- 1.6E-03
Phase delay (usec)	1.20854356369E+04		Apriori clockrate (us/s)		-2.1460000E-07		Resid phdelay (usec)		-2.95616E-06	+/- 6.7E-07
Delay rate (us/s)	1.19663730243E+00		Apriori rate (us/s)		1.19664484428E+00		Resid rate (us/s)		-7.54185E-06	+/- 2.8E-09
Total phase (deg)			Apriori accel (us/s/s)		-7.30180438590E-05		Resid phase (deg)		-91.7	+/- 20.8

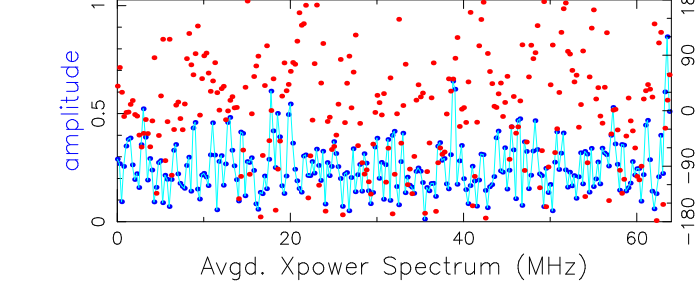
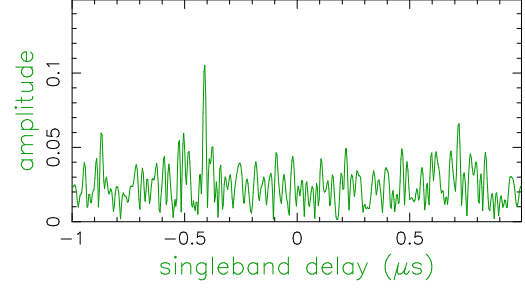
ph/seg (deg) 49.5 49.8 Search (2048X32) 0.098 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 53.5 87.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 38.5 29.4 Inc. seg. avg. 0.110 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 27.8 51.3 Inc. frq. avg. 0.124 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 56.4 el 73.7 pa -114.9 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -9073.476 -5458.726 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/KY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/kY.W.131.18UHQS



Fringe quality 0

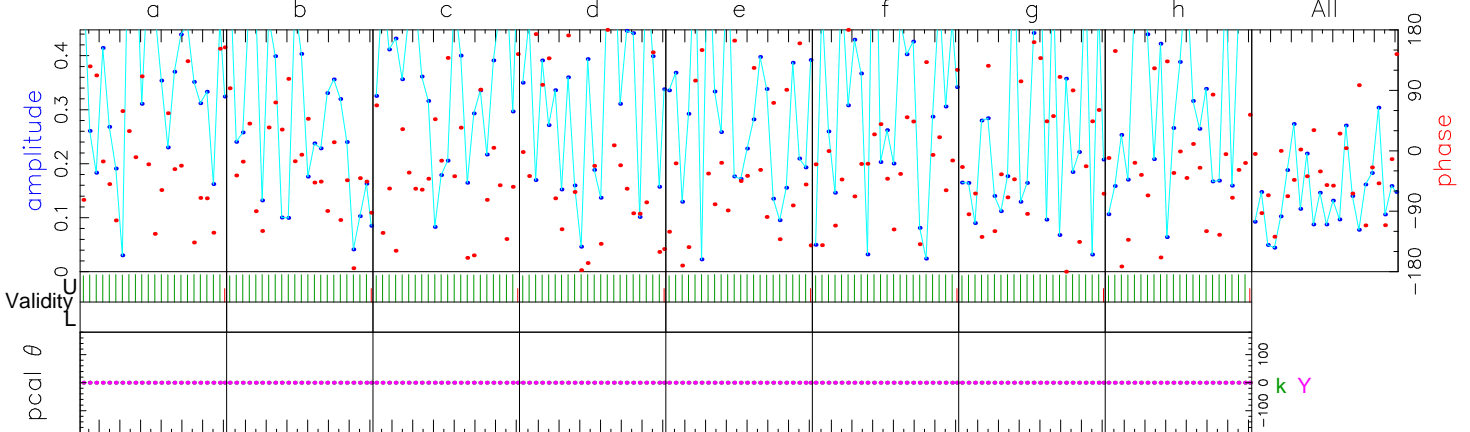
SNR 5.9
 Int time 411.194
 Amp 0.149
 Phase -38.3
 PFD 5.6e-01
 Delays (us)
 SBD -0.411509
 MBD -0.001162
 Fringe rate (Hz)
 -0.851577
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084105.12
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143602
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"



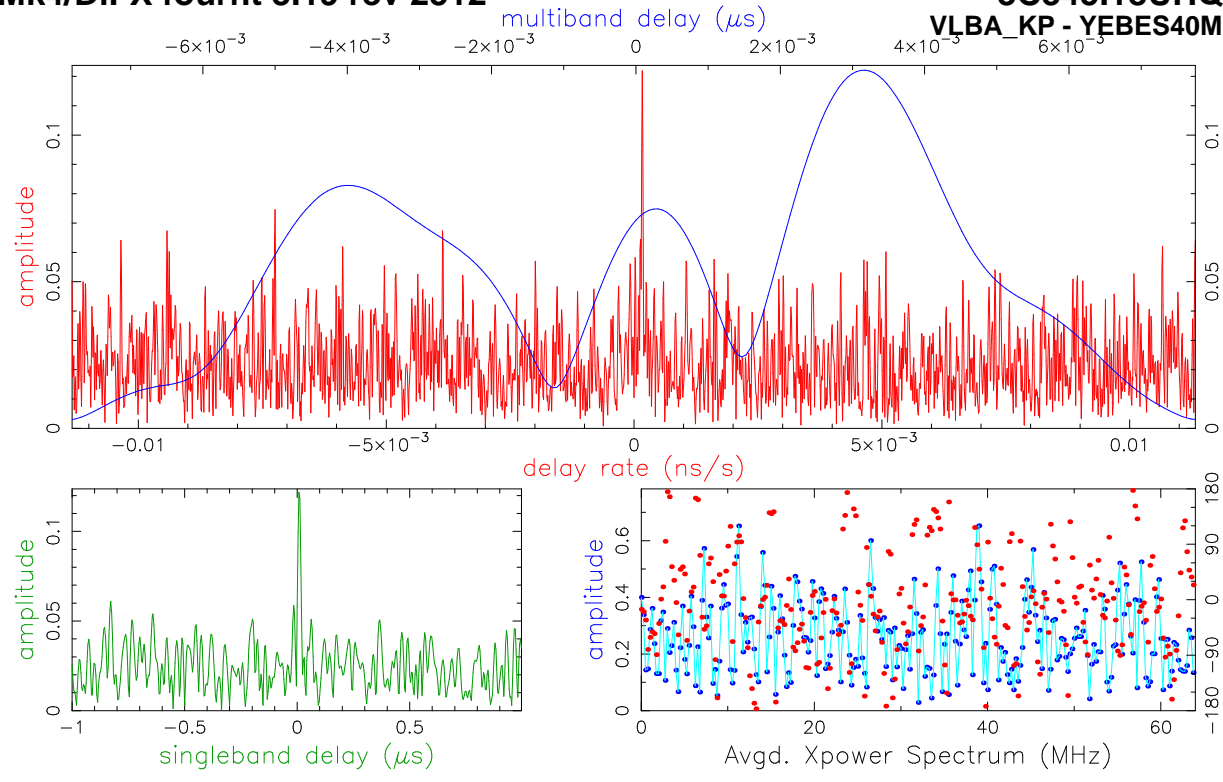
Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-37.4	-8.8	-54.1	-96.0	-75.0	-15.3	48.2	-31.4	Phase	-38.3
	0.2	0.2	0.2	0.1	0.1	0.2	0.0	0.3	Ampl.	0.1
	73.3	237.1	280.2	209.7	282.9	153.1	51.3	126.8	Sbd box	151.7
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.20850282278E+04		Apriori delay (usec)		1.20854356398E+04		Resid mbdelay (usec)		-1.16207E-03	+/- 1.8E-04
Sband delay (usec)	1.20850241311E+04		Apriori clock (usec)		-1.2316931E+01		Resid sbdelay (usec)		-4.11509E-01	+/- 1.5E-03
Phase delay (usec)	1.20854356386E+04		Apriori clockrate (us/s)		-2.1460000E-07		Resid phdelay (usec)		-1.23459E-06	+/- 6.2E-07
Delay rate (us/s)	1.19663495831E+00		Apriori rate (us/s)		1.19664484428E+00		Resid rate (us/s)		-9.88597E-06	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		-7.30180438590E-05		Resid phase (deg)		-38.3	+/- 19.3

ph/seg (deg) 57.3 46.4 Search (2048X32) 0.104 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 73.6 81.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 48.0 27.4 Inc. seg. avg. 0.153 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 49.6 47.8 Inc. frq. avg. 0.149 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 56.4 el 73.7 pa -114.9 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -9073.476 -5458.726 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/kY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/kY.W.149.18UHQS

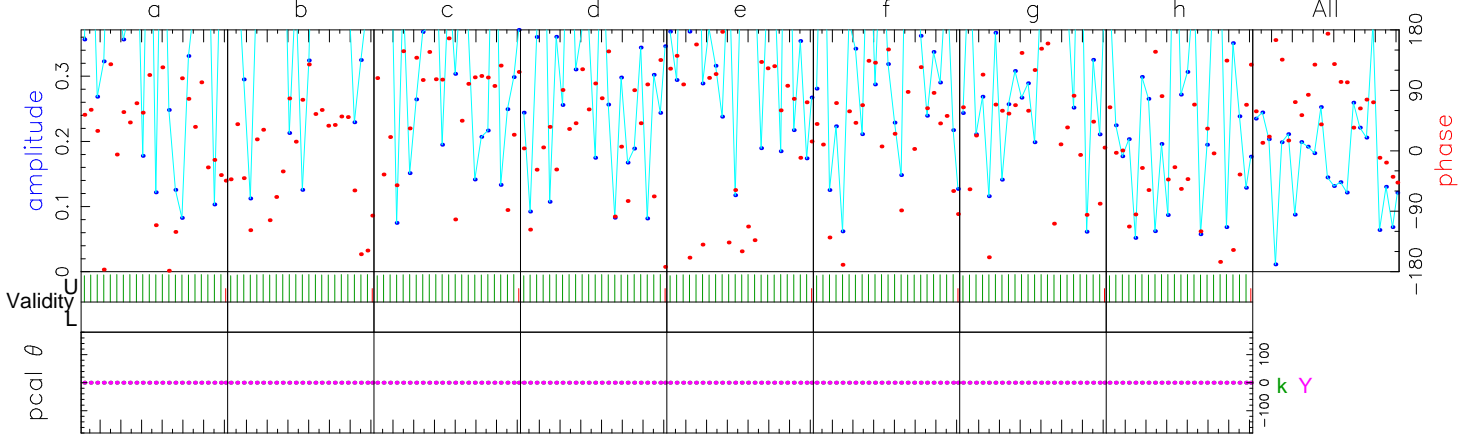


Fringe quality 0

SNR 6.9
 Int time 411.194
 Amp 0.124
 Phase 60.9
 PFD 2.0e-03
 Delays (us)
 SBD 0.009241
 MBD 0.003226
 Fringe rate (Hz)
 0.014149
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

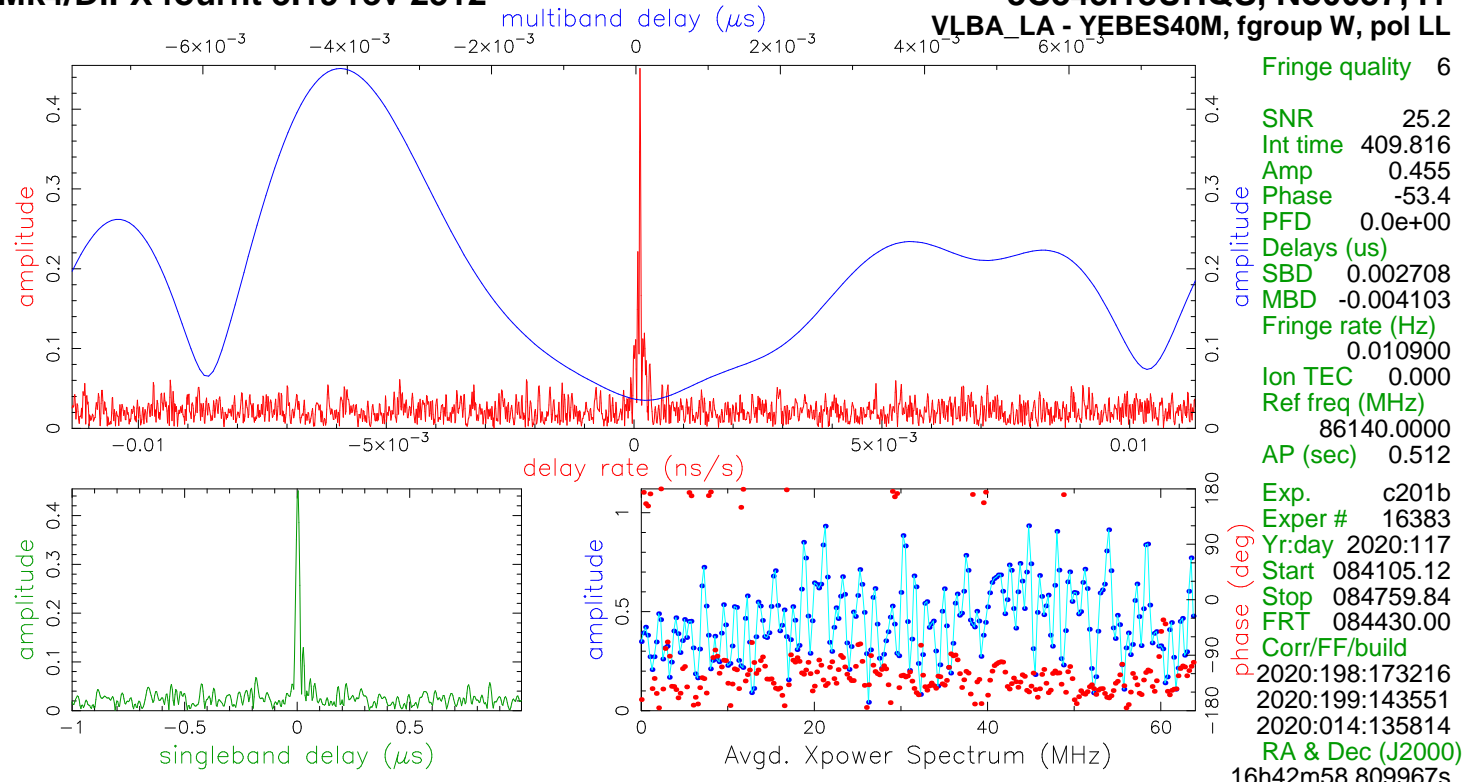
Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084105.12
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143549
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

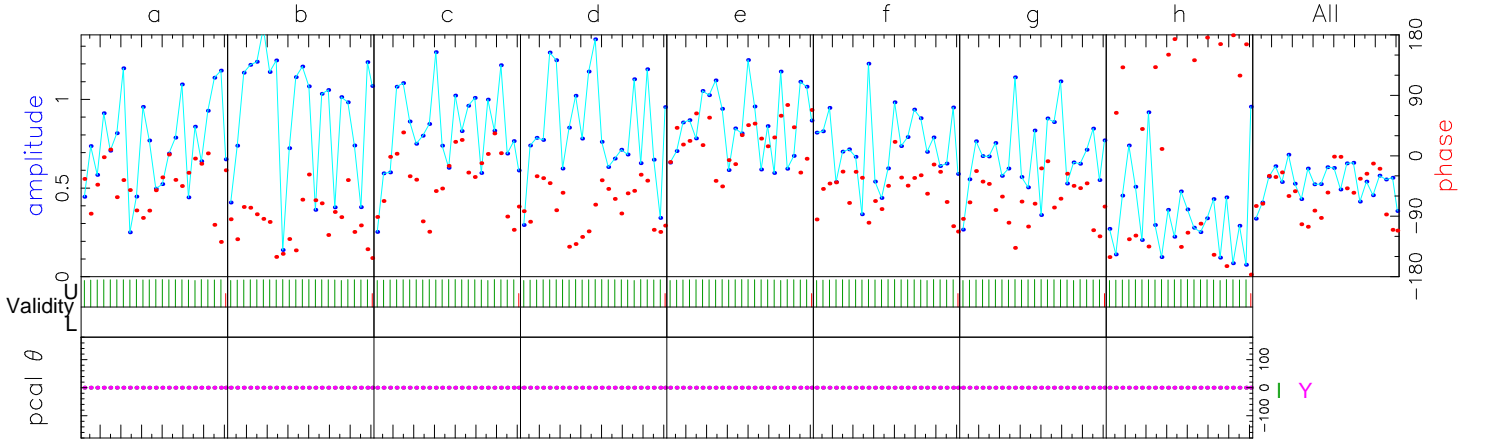


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		1.20854388661E+04				1.20854356398E+04			3.22623E-03	+/- 1.6E-04
Sband delay (usec)		1.20854448808E+04				-1.2316931E+01			9.24100E-03	+/- 1.3E-03
Phase delay (usec)		1.20854356418E+04				-2.1460000E-07			1.96494E-06	+/- 5.4E-07
Delay rate (us/s)		1.19664500853E+00				1.19664484428E+00			1.64251E-07	+/- 2.2E-09
Total phase (deg)			66.3						60.9	+/- 16.7
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				
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PC period (AP's)									5, 5	
sb window (us)										-1.000 1.000
mb window (us)										-0.008 0.008
dr window (ns/s)										-0.011 0.011
ion window (TEC)										0.00 0.00

ph/seg (deg) 58.5 40.0 Search (2048X32) 0.119 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 76.2 69.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 53.0 23.6 Inc. seg. avg. 0.141 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 46.4 41.2 Inc. frq. avg. 0.154 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 56.4 el 73.7 pa -114.9 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -9073.476 -5458.726 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/KY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/kY.W.95.18UHQS

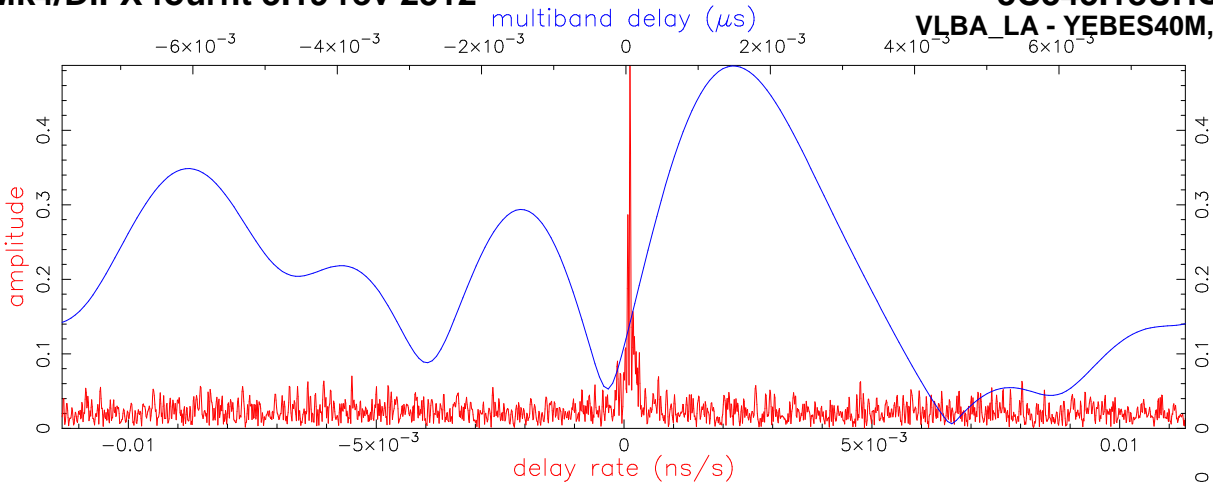


Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



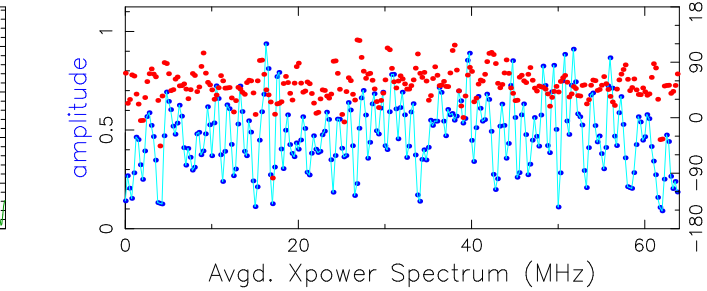
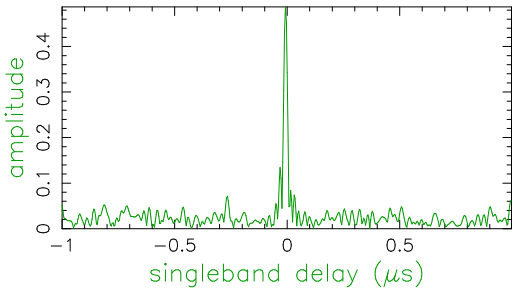
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-45.9	-96.9	-25.2	-73.1	20.9	-49.2	-66.6	-161.9	Phase	-53.4
	0.6	0.8	0.6	0.7	0.6	0.6	0.6	0.2	Ampl.	0.6
	257.2	257.8	257.1	257.6	257.2	257.1	256.5	254.7	Sbd box	257.7
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
Y	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	1.25519770178E+04		Apriori delay (usec)		1.25519811212E+04		Resid mbdelay (usec)		-4.10349E-03	+/- 4.3E-05
Sband delay (usec)	1.25519838287E+04		Apriori clock (usec)		-1.5678743E+01		Resid sbdelay (usec)		2.70750E-03	+/- 3.4E-04
Phase delay (usec)	1.25519811195E+04		Apriori clockrate (us/s)		-3.7100000E-07		Resid phdelay (usec)		-1.72325E-06	+/- 1.5E-07
Delay rate (us/s)	1.09598522891E+00		Apriori rate (us/s)		1.09598510238E+00		Resid rate (us/s)		1.26535E-07	+/- 6.1E-10
Total phase (deg)	228.6		Apriori accel (us/s/s)		-7.15250365626E-05		Resid phase (deg)		-53.4	+/- 4.6

	RMS	Theor.	Amplitude	0.455 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	33.7	10.9	Search (2048X32)	0.424	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	26.4	19.0	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	58.6	6.4	Inc. seg. avg.	0.527	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	46.0	11.2	Inc. frq. avg.	0.595	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00



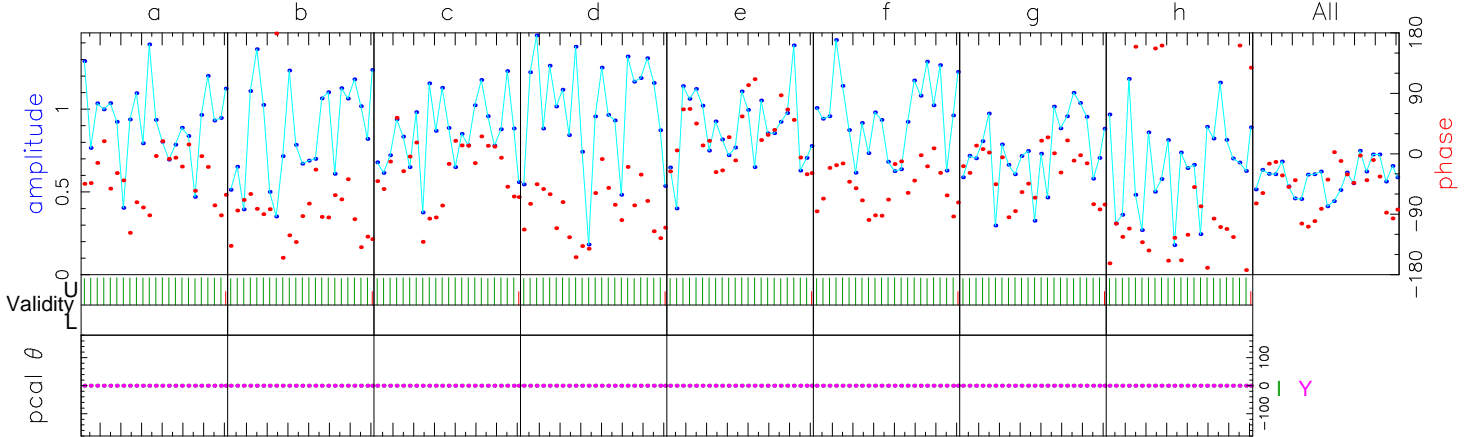
Fringe quality 6

SNR 27.0
Int time 409.817
Amp 0.487
Phase -47.7
PFD 0.0e+00
Delays (us)
SBD -0.007316
MBD 0.001499
Fringe rate (Hz)
0.010914
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084105.12
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143555
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

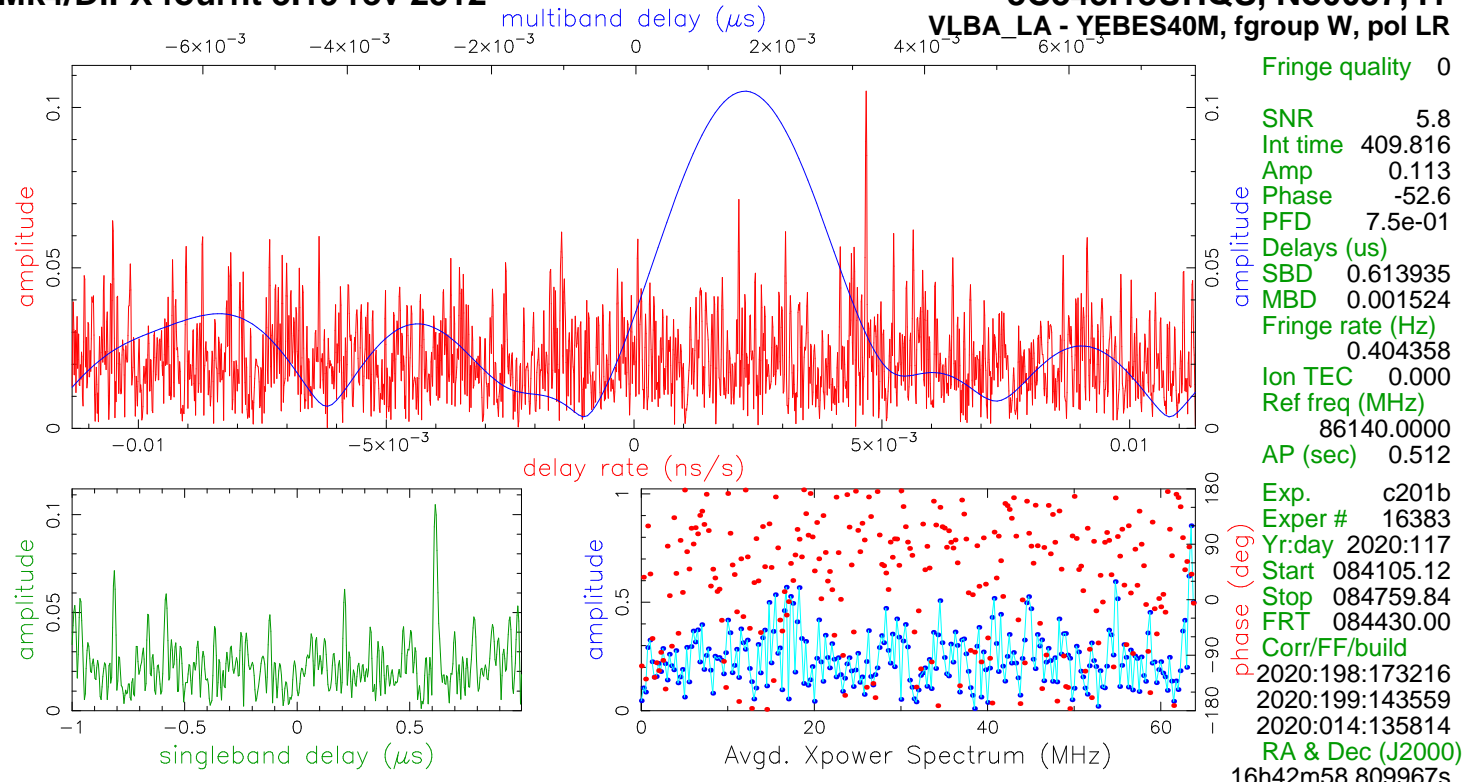


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

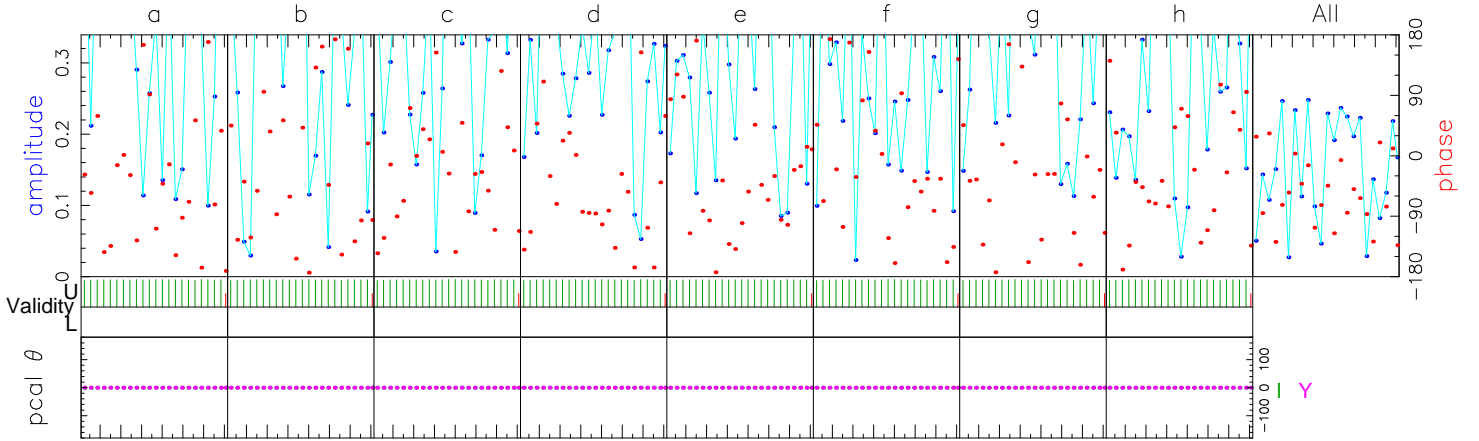
Group delay (usec)(sbd)	1.25519669953E+04	Apriori delay (usec)	1.25519811212E+04	Resid mbdelay (usec)	1.49904E-03	+/-	4.0E-05
Sband delay (usec)	1.25519738052E+04	Apriori clock (usec)	-1.5678743E+01	Resid sbdelay (usec)	-7.31600E-03	+/-	3.2E-04
Phase delay (usec)	1.25519811197E+04	Apriori clockrate (us/s)	-3.7100000E-07	Resid phdelay (usec)	-1.53677E-06	+/-	1.4E-07
Delay rate (us/s)	1.09598522908E+00	Apriori rate (us/s)	1.09598510238E+00	Resid rate (us/s)	1.26703E-07	+/-	5.7E-10
Total phase (deg)	234.4	Apriori accel (us/s/s)	-7.15250365626E-05	Resid phase (deg)	-47.7	+/-	4.2

ph/seg (deg)	RMS 34.6	Theor. 10.2	Amplitude 0.487 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	27.8	17.8	Search (2048X32) 0.458	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	57.5	6.0	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	44.5	10.5	Inc. seg. avg. 0.578	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
			Inc. frq. avg. 0.680	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

I: az 64.0 el 79.5 pa -110.3 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -8319.544 -4995.697 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/IY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/IY.W.121.18UHQS

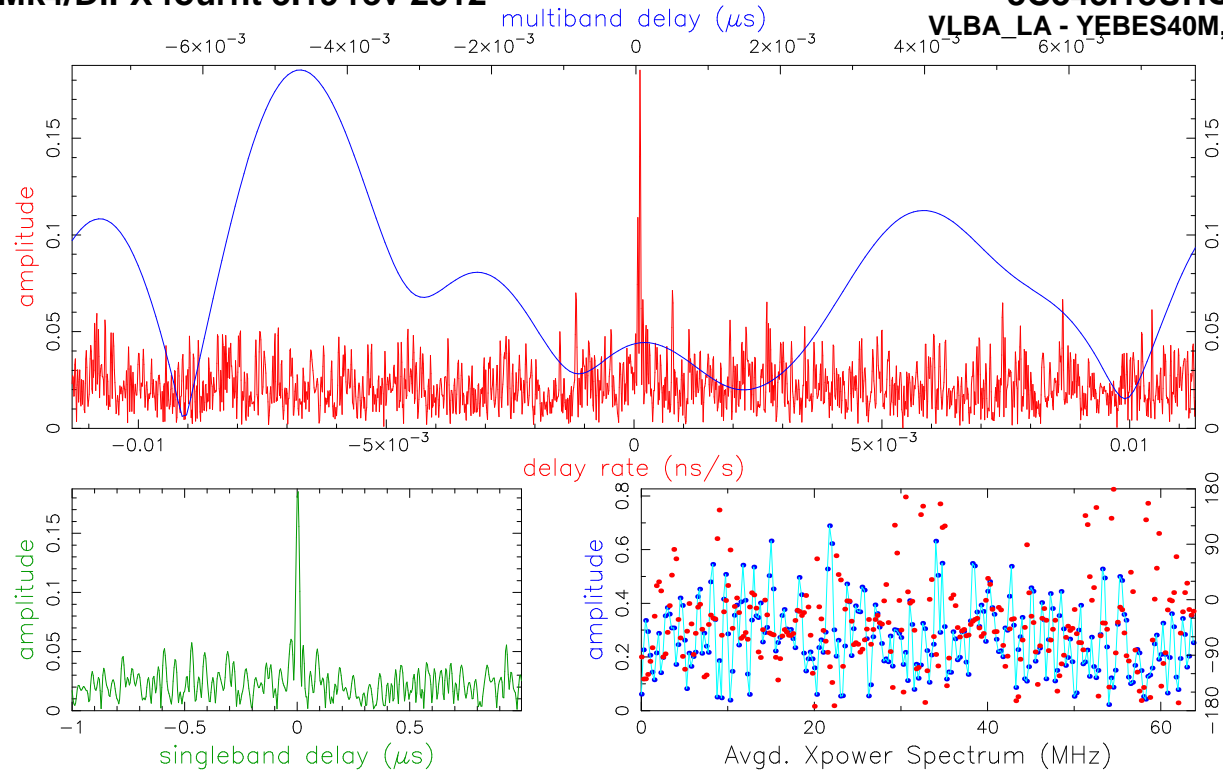


Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-40.8	-107.6	-36.8	-67.5	-54.9	-81.3	-44.4	-44.4	Phase	-52.6
	0.1	0.0	0.1	0.1	0.2	0.1	0.2	0.1	Ampl.	0.1
	180.8	3.0	126.4	310.9	287.2	11.9	310.2	457.9	Sbd box	414.2
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.25525920203E+04		Apriori delay (usec)		1.25519811212E+04		Resid mbdelay (usec)		1.52401E-03	+/- 1.9E-04
Sband delay (usec)	1.25525950562E+04		Apriori clock (usec)		-1.5678743E+01		Resid sbdelay (usec)		6.13935E-01	+/- 1.5E-03
Phase delay (usec)	1.25519811195E+04		Apriori clockrate (us/s)		-3.7100000E-07		Resid phdelay (usec)		-1.69565E-06	+/- 6.3E-07
Delay rate (us/s)	1.09598979658E+00		Apriori rate (us/s)		1.09598510238E+00		Resid rate (us/s)		4.69420E-06	+/- 2.6E-09
Total phase (deg)	229.5		Apriori accel (us/s/s)		-7.15250365626E-05		Resid phase (deg)		-52.6	+/- 19.7

	RMS	Theor.	Amplitude	0.113 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	50.0	47.1	Search (2048X32)	0.104	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	83.1	82.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	27.7	27.8	Inc. seg. avg.	0.123	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	38.5	48.5	Inc. frq. avg.	0.105	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

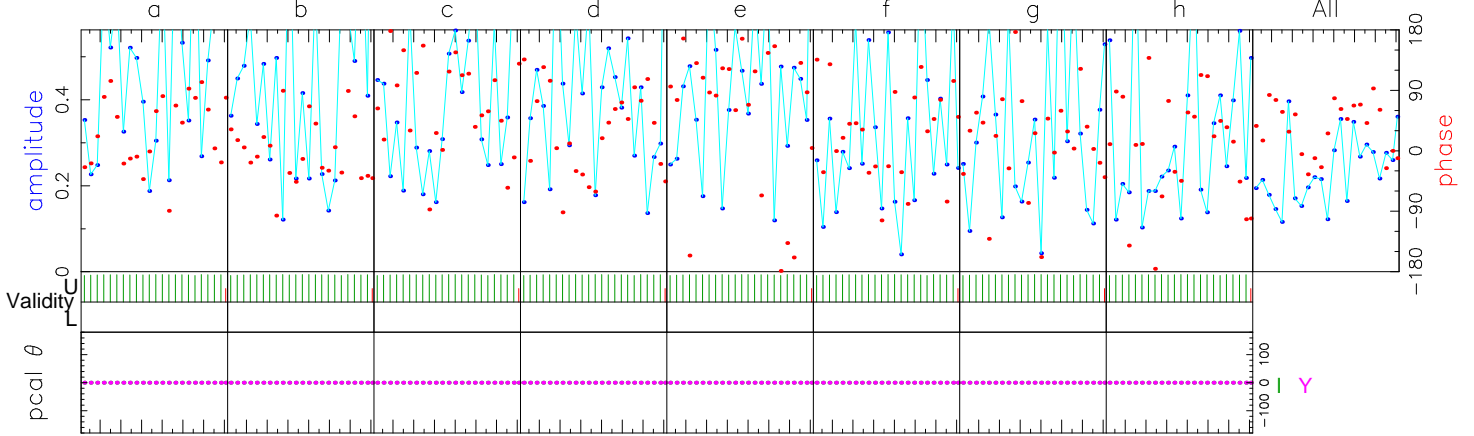


Fringe quality 9

SNR 10.4
Int time 409.817
Amp 0.188
Phase 37.0
PFD 1.3e-16
Delays (us)
SBD 0.002430
MBD -0.004695
Fringe rate (Hz) 0.010888
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084105.12
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143606
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

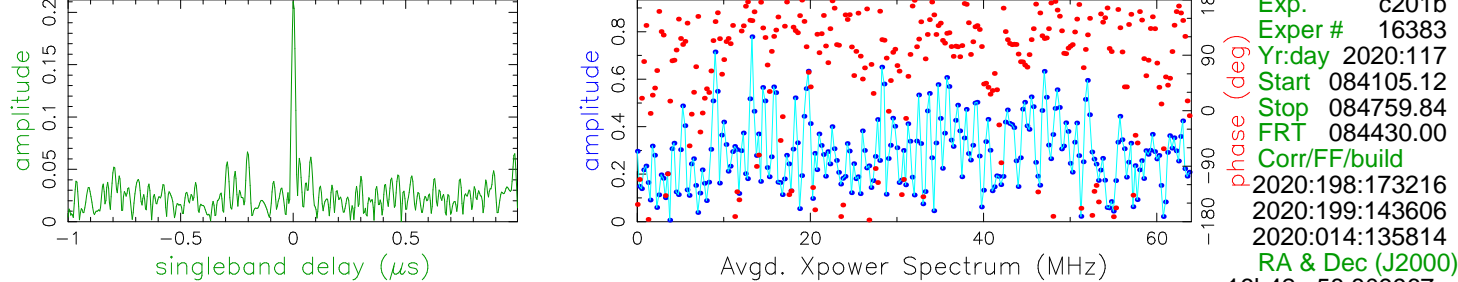
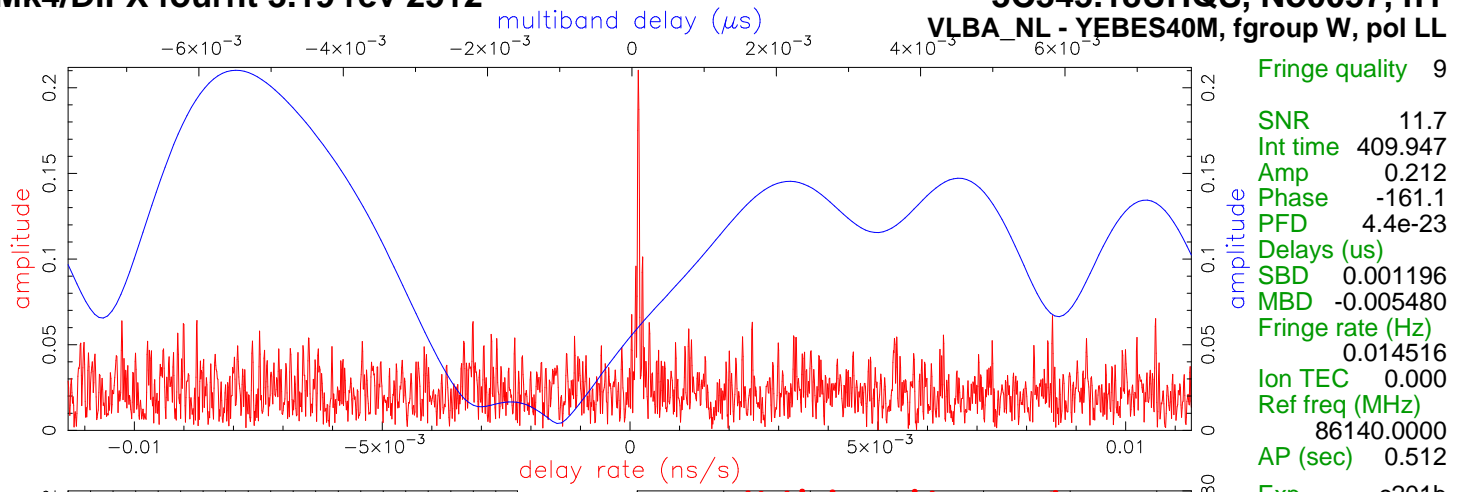
Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



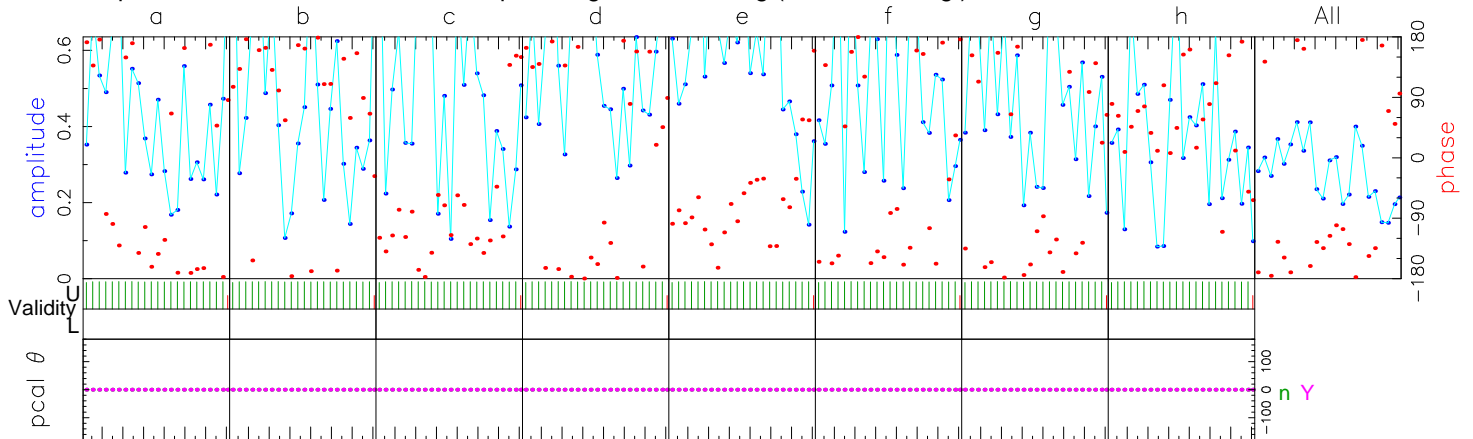
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0		
I	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	0:0
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	0:0
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)		1.25519764262E+04				1.25519811212E+04			Resid mbdelay (usec)	-4.69508E-03 +/- 1.0E-04
Sband delay (usec)		1.25519835510E+04				-1.5678743E+01			Resid sbdelay (usec)	2.42975E-03 +/- 8.3E-04
Phase delay (usec)		1.25519811224E+04				-3.7100000E-07			Resid phdelay (usec)	1.19384E-06 +/- 3.6E-07
Delay rate (us/s)		1.09598522877E+00				1.09598510238E+00			Resid rate (us/s)	1.26395E-07 +/- 1.5E-09
Total phase (deg)			319.1						Resid phase (deg)	37.0 +/- 11.0
	RMS	Theor.	Amplitude	0.188 +/- 0.018					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	38.1	26.5	Search (2048X32)	0.174					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	47.5	46.2	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	44.2	15.6	Inc. seg. avg.	0.211					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	42.9	27.2	Inc. frq. avg.	0.225					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

I: az 64.0 el 79.5 pa -110.3 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -8319.544 -4995.697 simultaneous interpolator

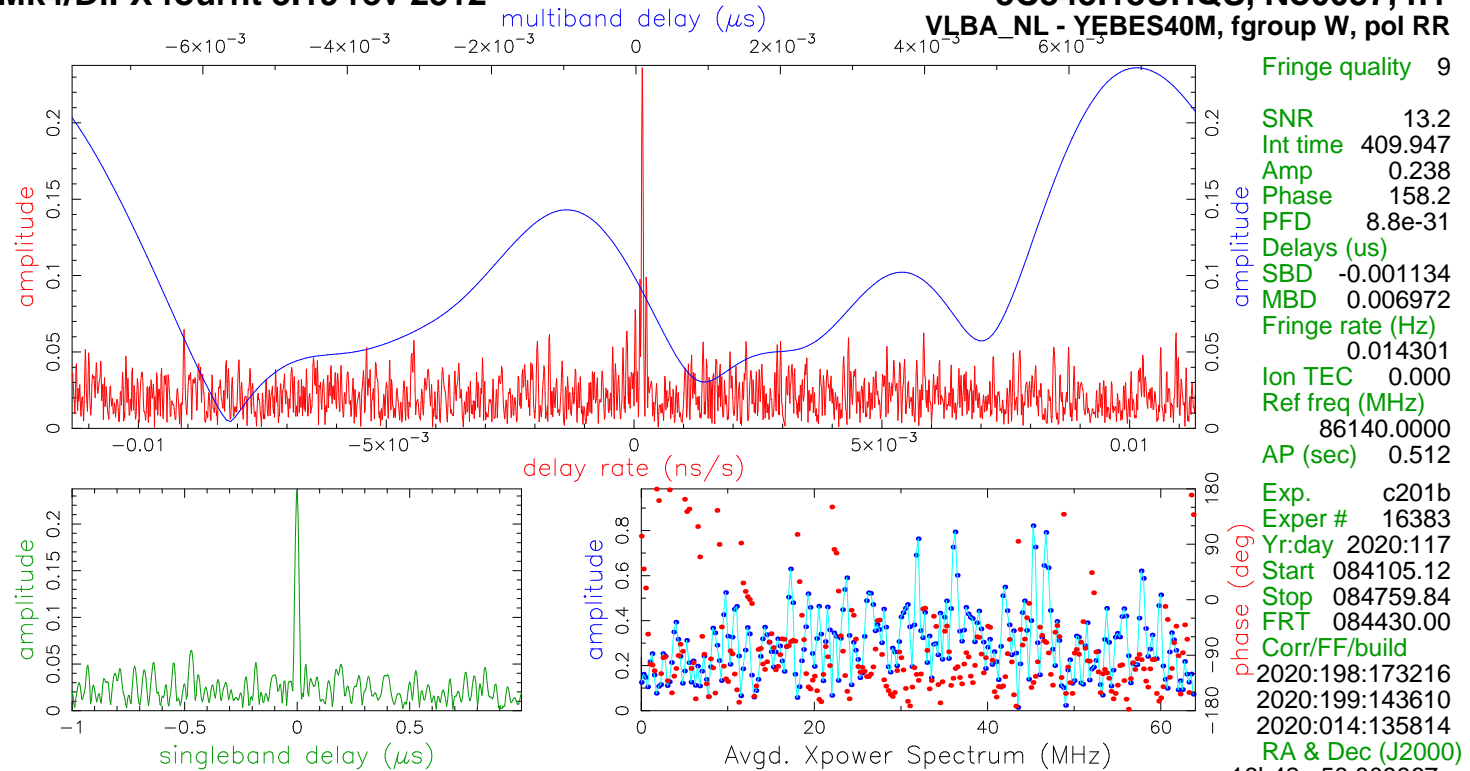
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/IY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/IY.W.162.18UHQS



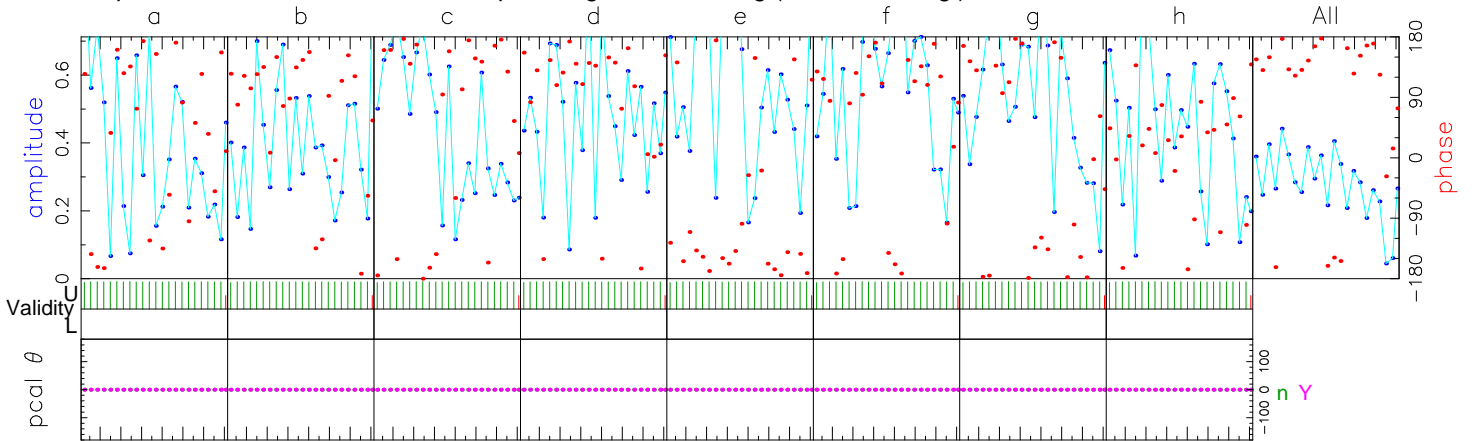
Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
									Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)		1.28531256505E+04				1.28531311302E+04			Resid mbdelay (usec)	-5.47967E-03 +/- 9.3E-05
Sband delay (usec)		1.28531323257E+04				2.0317902E+01			Resid sbdelay (usec)	1.19550E-03 +/- 7.3E-04
Phase delay (usec)		1.28531311250E+04				1.1399998E-07			Resid phdelay (usec)	-5.19562E-06 +/- 3.1E-07
Delay rate (us/s)		8.53839391233E-01				8.53839222716E-01			Resid rate (us/s)	1.68516E-07 +/- 1.3E-09
Total phase (deg)			38.7			-6.70603846450E-05			Resid phase (deg)	-161.1 +/- 9.8
	RMS	Theor.	Amplitude	0.212 +/- 0.018					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	54.0	23.4	Search (2048X32)	0.207					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	50.0	40.9	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	70.4	13.8	Inc. seg. avg.	0.260					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	65.4	24.1	Inc. frq. avg.	0.325					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

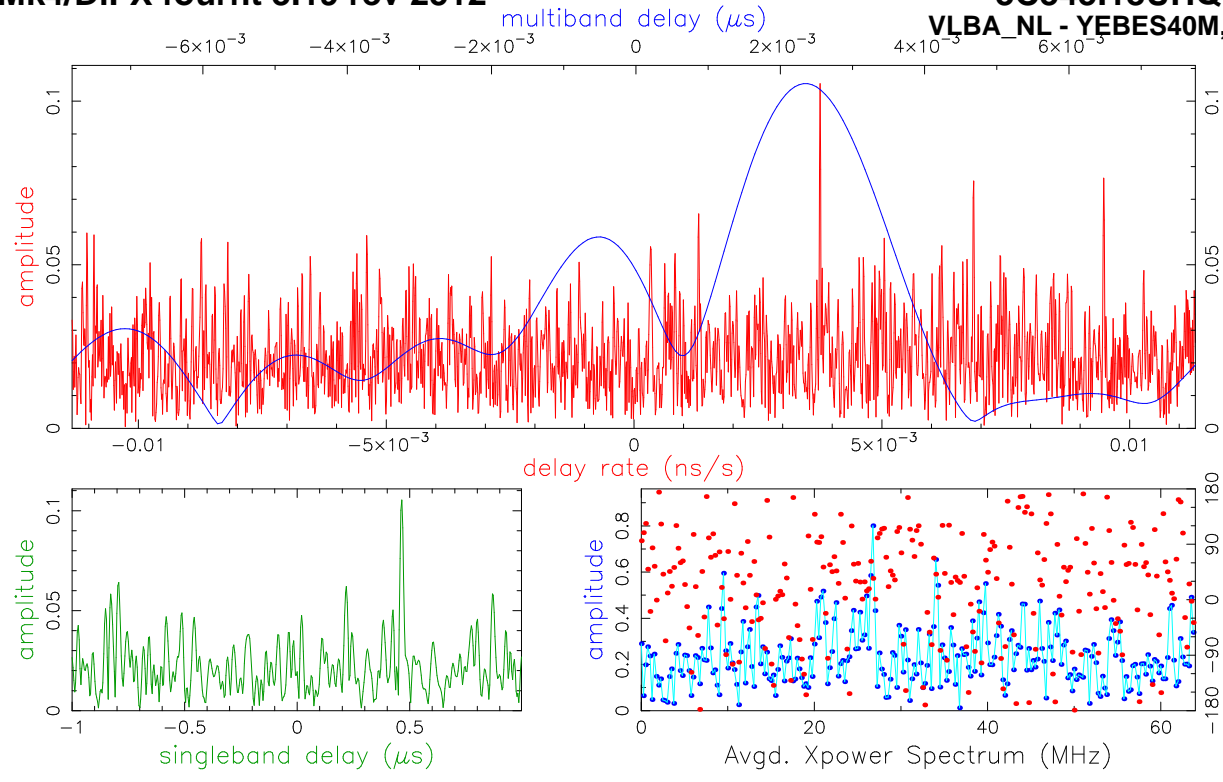


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	162.0	126.9	169.9	135.8	-152.9	143.2	176.9	27.0	Phase	158.2
	0.2	0.3	0.4	0.3	0.4	0.4	0.4	0.2	Ampl.	0.3
	471.5	255.8	256.6	256.4	255.8	256.1	255.7	254.0	Sbd box	256.7
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.28531224776E+04		Apriori delay (usec)		1.28531311302E+04		Resid mbdelay (usec)		6.97239E-03	+/- 8.3E-05
Sband delay (usec)	1.28531299962E+04		Apriori clock (usec)		2.0317902E+01		Resid sbdelay (usec)		-1.13400E-03	+/- 6.5E-04
Phase delay (usec)	1.28531311353E+04		Apriori clockrate (us/s)		1.1399998E-07		Resid phdelay (usec)		5.10297E-06	+/- 2.8E-07
Delay rate (us/s)	8.53839388733E-01		Apriori rate (us/s)		8.53839222716E-01		Resid rate (us/s)		1.66016E-07	+/- 1.2E-09
Total phase (deg)	358.1		Apriori accel (us/s/s)		-6.70603846450E-05		Resid phase (deg)		158.2	+/- 8.7

	RMS	Theor.	Amplitude	0.238 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
ph/seg (deg)	55.9	20.9	Search (2048X32)	0.235	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
amp/seg (%)	45.6	36.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	60.3	12.3	Inc. seg. avg.	0.264	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011	
amp/frq (%)	48.1	21.5	Inc. frq. avg.	0.308	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC) 0.00 0.00

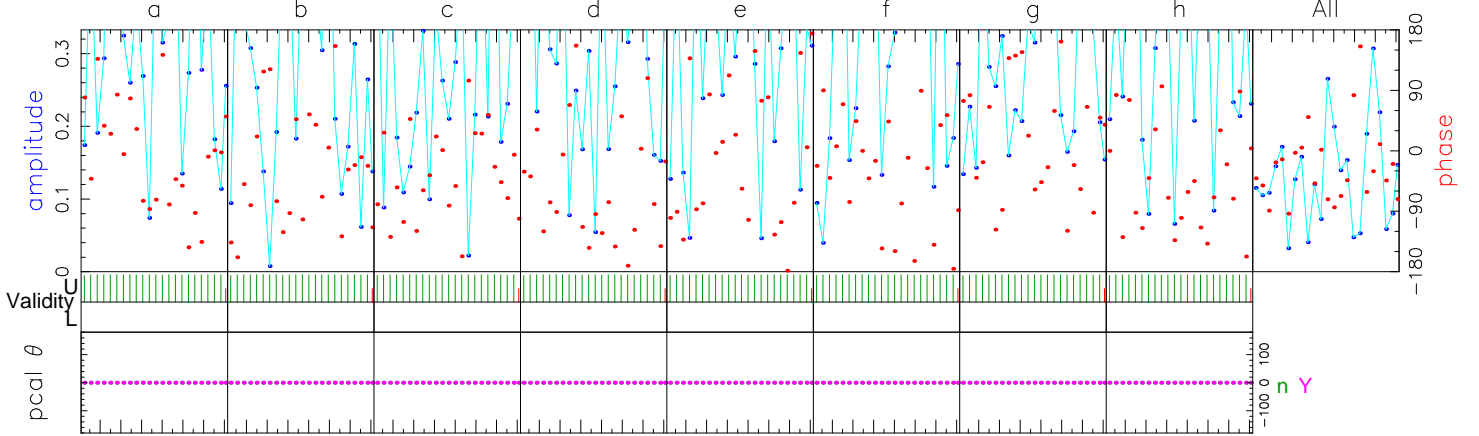
n: az 222.0 el 87.3 pa 44.3 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -6504.819 -4176.546 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/nY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/nY.W.173.18UHQS



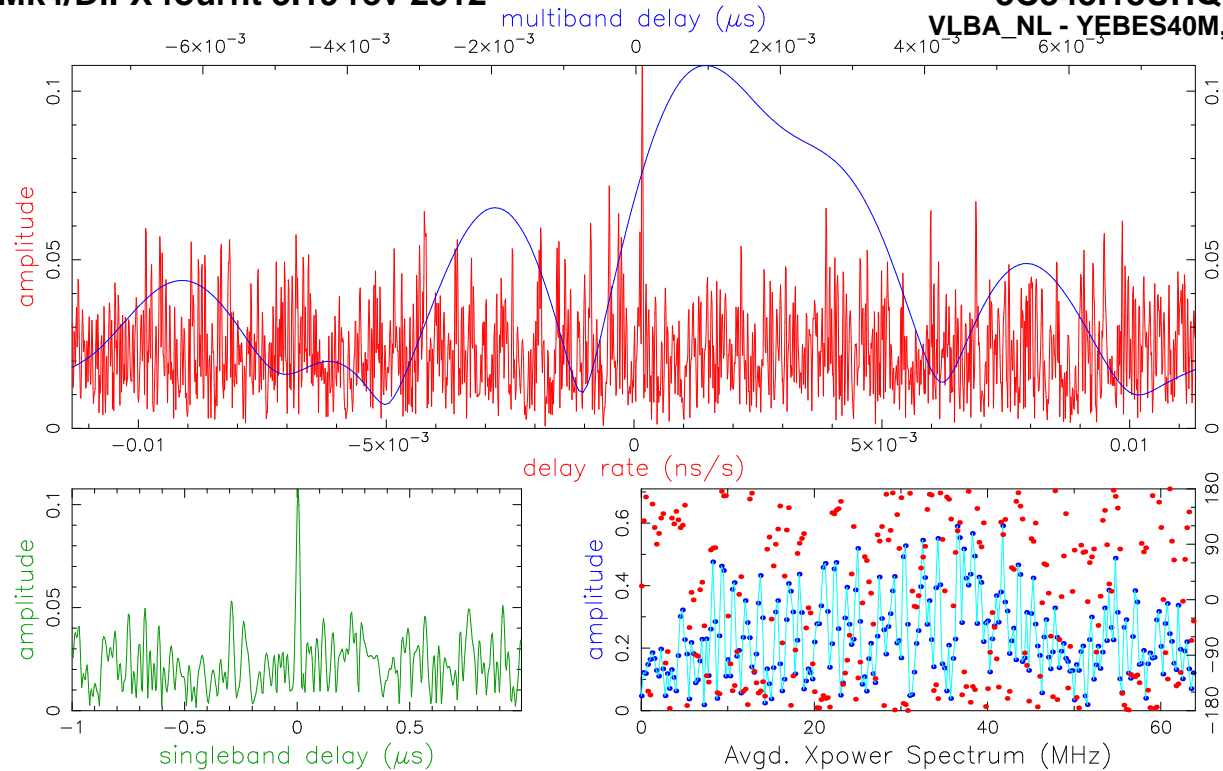
Fringe quality 0
 SNR 5.9
 Int time 409.947
 Amp 0.111
 Phase -38.3
 PFD 6.7e-01
 Delays (us)
 SBD 0.463855
 MBD 0.002316
 Fringe rate (Hz)
 0.323951
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084105.12
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143613
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



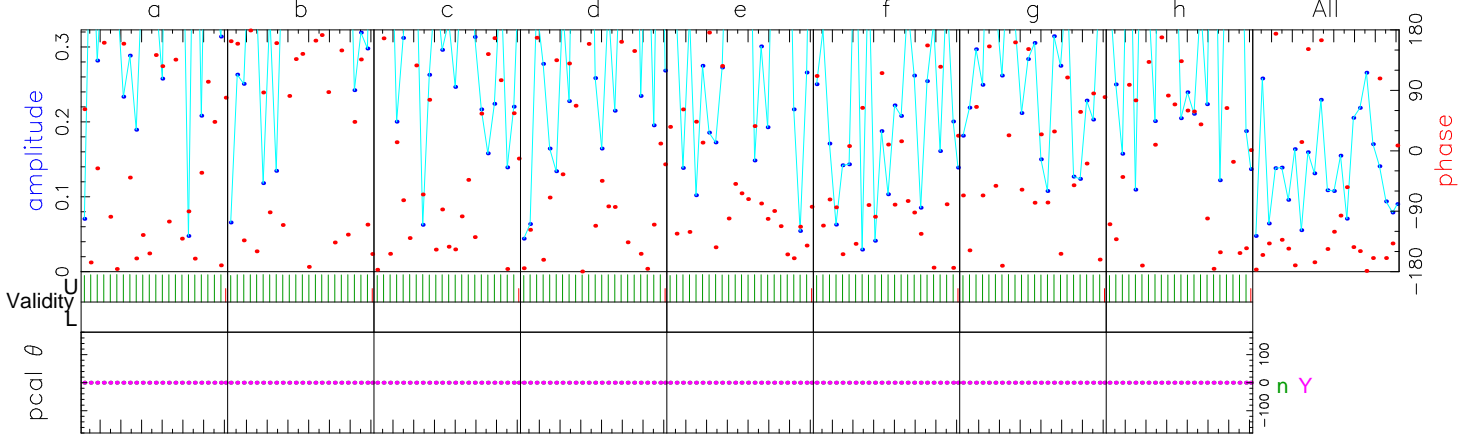
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-17.2	-51.5	-44.2	-66.0	-78.7	0.6	-7.4	-58.9	Phase	-38.3
	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	412.7	285.6	123.6	165.9	442.9	144.4	52.8	39.7	Sbd box	375.7
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.28536021963E+04		Apriori delay (usec)		1.28531311302E+04		Resid mbdelay (usec)		2.31612E-03	+/- 1.8E-04
Sband delay (usec)	1.28535949849E+04		Apriori clock (usec)		2.0317902E+01		Resid sbdelay (usec)		4.63855E-01	+/- 1.5E-03
Phase delay (usec)	1.28531311290E+04		Apriori clockrate (us/s)		1.1399998E-07		Resid phdelay (usec)		-1.23479E-06	+/- 6.3E-07
Delay rate (us/s)	8.53842983465E-01		Apriori rate (us/s)		8.53839222716E-01		Resid rate (us/s)		3.76075E-06	+/- 2.6E-09
Total phase (deg)	161.6		Apriori accel (us/s/s)		-6.70603846450E-05		Resid phase (deg)		-38.3	+/- 19.5

ph/seg (deg) 55.7 46.8 Amplitude 0.111 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.3 81.7 Search (2048X32) 0.102 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 31.5 27.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 27.2 48.2 Inc. seg. avg. 0.104 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 n: az 222.0 el 87.3 pa 44.3 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -6504.819 -4176.546 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/nY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/nY.W.186.18UHQS simultaneous interpolator



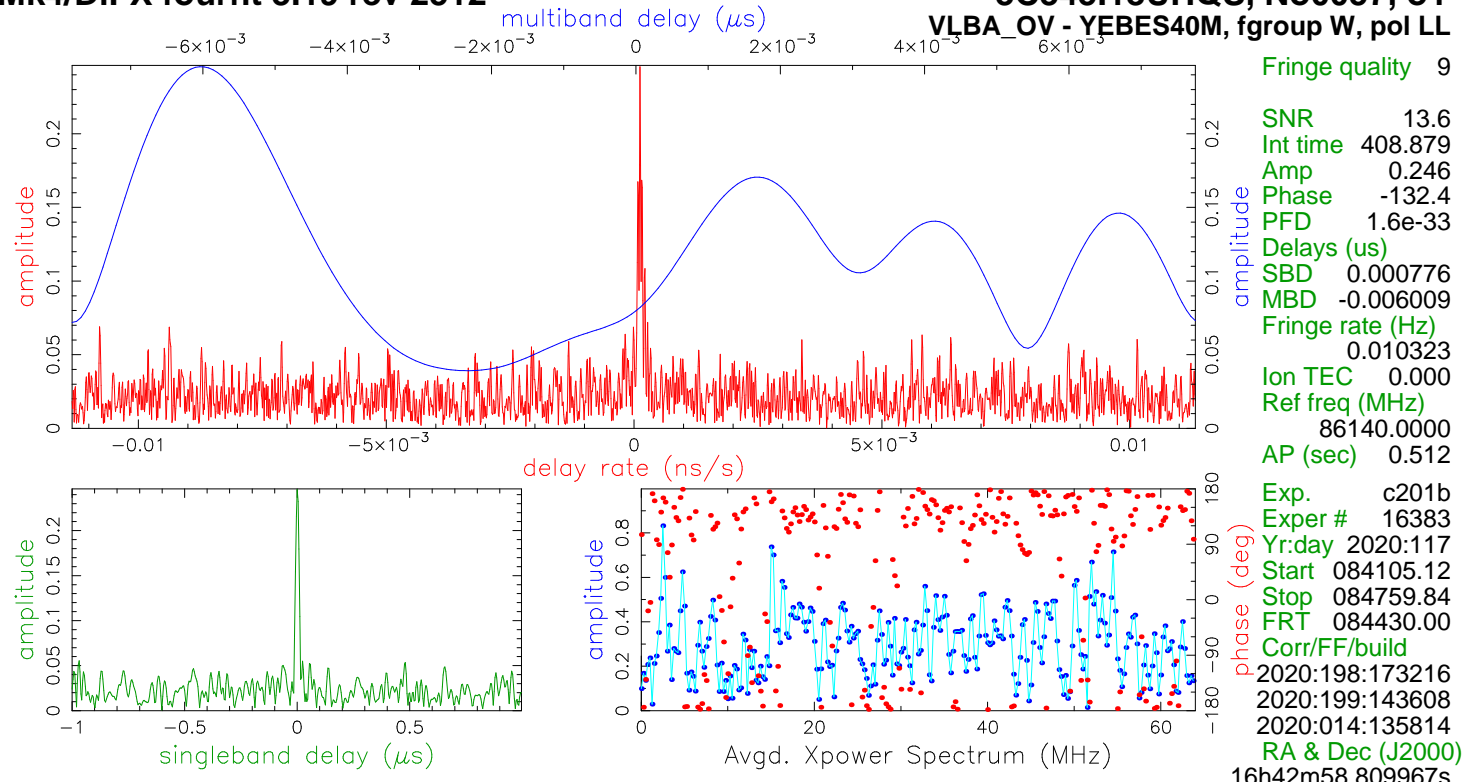
Fringe quality 0
 SNR 6.0
 Int time 409.947
 Amp 0.108
 Phase -160.2
 PFD 4.8e-01
 Delays (us)
 SBD 0.004097
 MBD 0.000971
 Fringe rate (Hz)
 0.014350
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084105.12
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143617
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

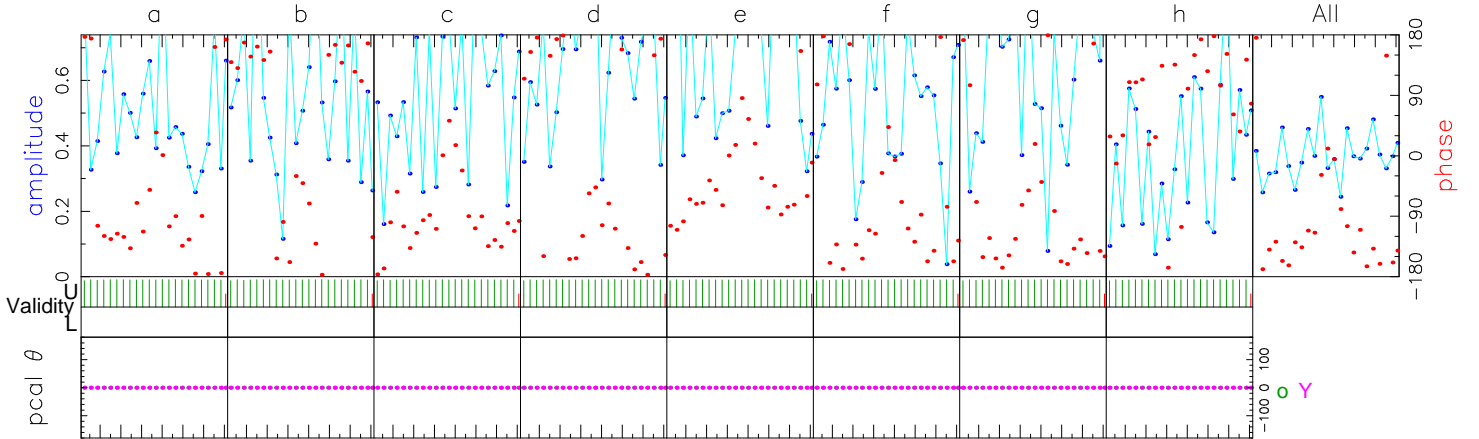


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-166.0	-177.9	-150.9	-177.2	-99.6	-114.2	150.6	134.1	Phase	-160.2
	0.2	0.2	0.1	0.1	0.2	0.1	0.0	0.1	Ampl.	0.1
	379.1	258.5	488.1	376.8	258.9	84.5	396.2	105.8	Sbd box	258.0
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.28531321007E+04		Apriori delay (usec)		1.28531311302E+04		Resid mbdelay (usec)		9.70544E-04	+/- 1.8E-04
Sband delay (usec)	1.28531352267E+04		Apriori clock (usec)		2.0317902E+01		Resid sbdelay (usec)		4.09650E-03	+/- 1.4E-03
Phase delay (usec)	1.28531311250E+04		Apriori clockrate (us/s)		1.1399998E-07		Resid phdelay (usec)		-5.16699E-06	+/- 6.2E-07
Delay rate (us/s)	8.53839389304E-01		Apriori rate (us/s)		8.53839222716E-01		Resid rate (us/s)		1.66588E-07	+/- 2.6E-09
Total phase (deg)	39.6		Apriori accel (us/s/s)		-6.70603846450E-05		Resid phase (deg)		-160.2	+/- 19.2

ph/seg (deg) 58.6 46.1 Amplitude 0.108 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 65.2 80.5 Search (2048X32) 0.107 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 47.0 27.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 62.5 47.5 Inc. seg. avg. 0.106 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 n: az 222.0 el 87.3 pa 44.3 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -6504.819 -4176.546 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 simultaneous interpolator



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



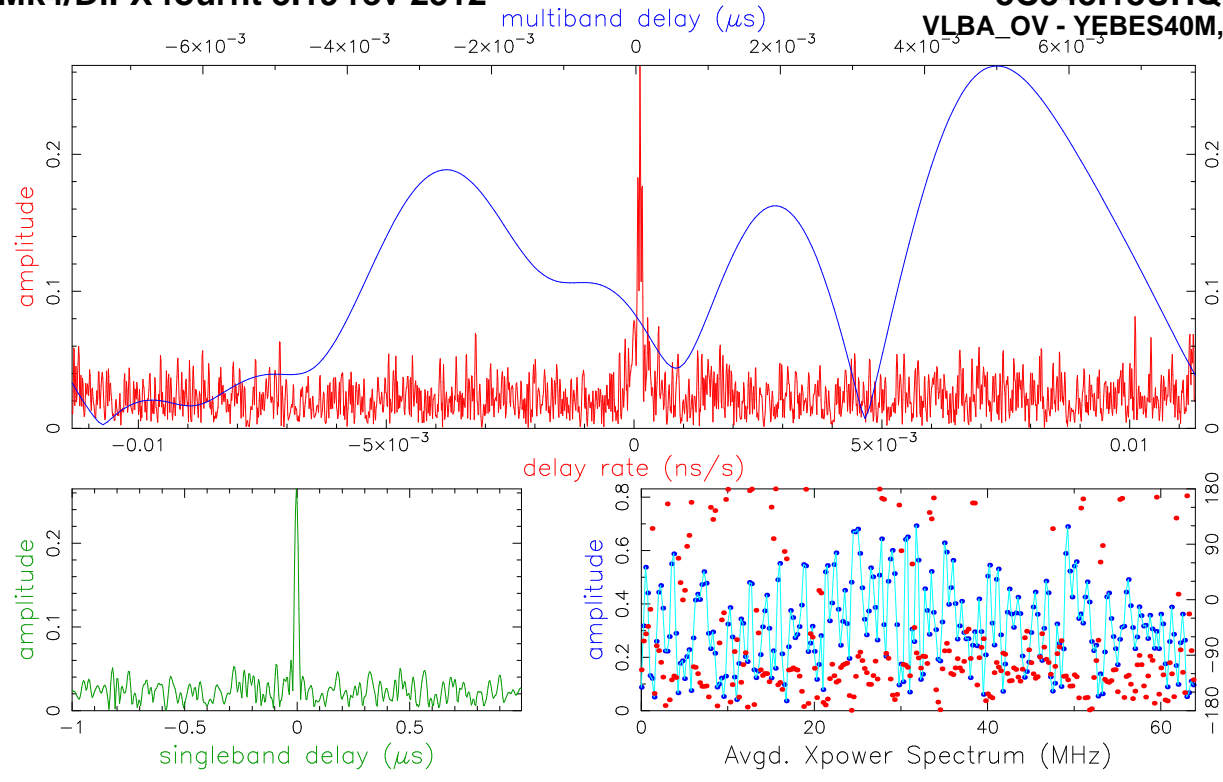
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-124.2	169.8	-95.2	-152.4	-56.2	-133.7	-133.2	116.7	Phase	-132.4
	0.3	0.4	0.3	0.4	0.4	0.3	0.4	0.2	Ampl.	0.3
	256.5	257.3	256.7	257.0	256.3	256.6	256.2	254.8	Sbd box	257.2
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.17985168014E+04	Apriori delay (usec)	1.17985228100E+04	Resid mbdelay (usec)	-6.00861E-03	+/-	8.0E-05
Sband delay (usec)	1.17985235862E+04	Apriori clock (usec)	8.1173506E+00	Resid sbdelay (usec)	7.76250E-04	+/-	6.3E-04
Phase delay (usec)	1.17985228057E+04	Apriori clockrate (us/s)	-1.8999993E-08	Resid phdelay (usec)	-4.27075E-06	+/-	2.7E-07
Delay rate (us/s)	1.28278362935E+00	Apriori rate (us/s)	1.28278350951E+00	Resid rate (us/s)	1.19845E-07	+/-	1.1E-09
Total phase (deg)	173.6	Apriori accel (us/s/s)	-6.59226741765E-05	Resid phase (deg)	-132.4	+/-	8.4

ph/seg (deg)	54.6	RMS	20.2	Theor.	0.246 +/- 0.018	PCal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	58.0	Search (2048X32)	0.239	Amplitude		PCal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	62.3	Inc. seg. avg.	0.348	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	55.0	Inc. frq. avg.	0.349	Inc. seg. avg.	0.348	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.349	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

o: az 74.9 el 70.8 pa -89.6 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -9698.650 -4470.183 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/oY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/oY.W.168.18UHQS

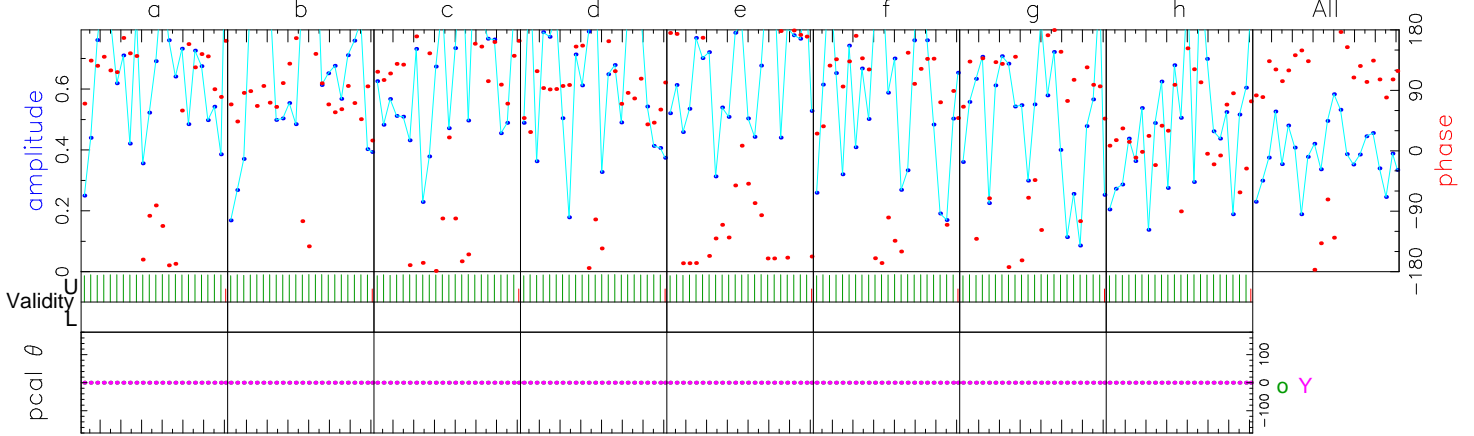


Fringe quality 7

SNR 14.6
 Int time 408.878
 Amp 0.265
 Phase 136.0
 PFD 9.1e-40
 Delays (us)
 SBD -0.003403
 MBD 0.005002
 Fringe rate (Hz)
 0.010560
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084105.12
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143612
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



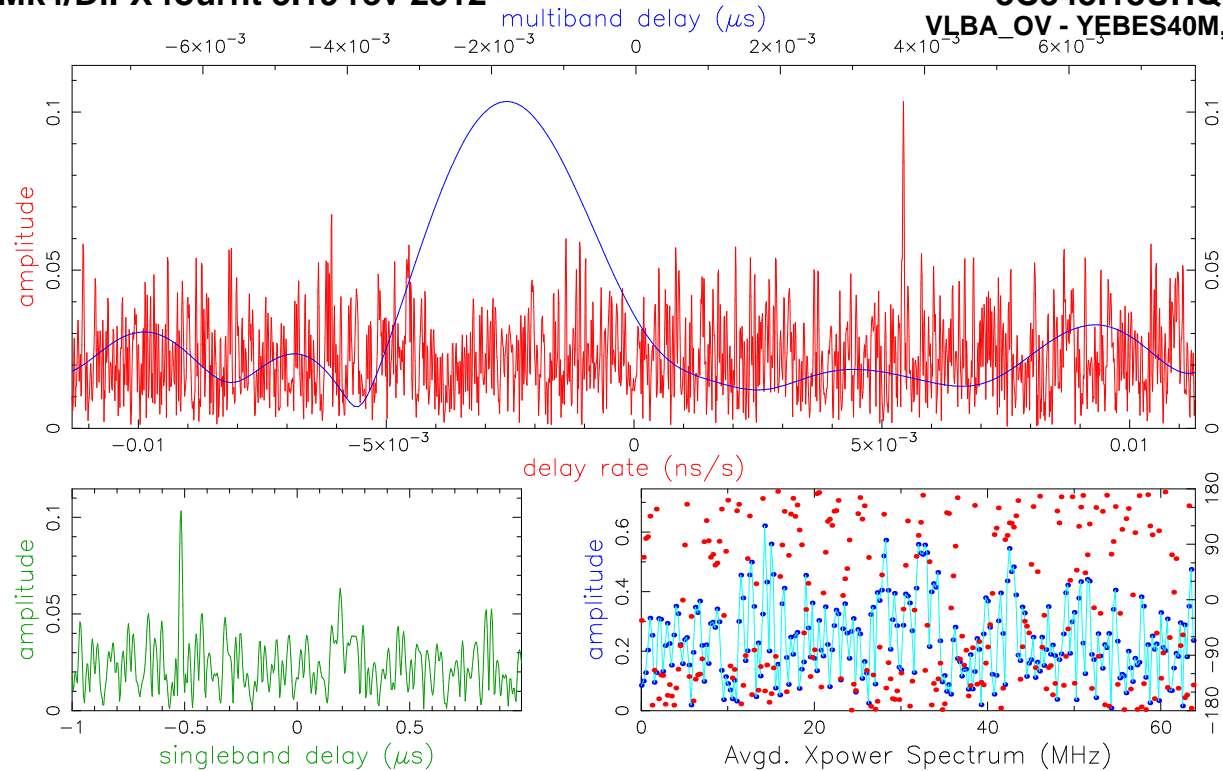
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	1.17985121869E+04	Apriori delay (usec)	1.17985228100E+04	Resid mbdelay (usec)	5.00195E-03	+/-	7.4E-05
Sband delay (usec)	1.17985194070E+04	Apriori clock (usec)	8.1173506E+00	Resid sbdelay (usec)	-3.40300E-03	+/-	5.9E-04
Phase delay (usec)	1.17985228143E+04	Apriori clockrate (us/s)	-1.8999993E-08	Resid phdelay (usec)	4.38402E-06	+/-	2.5E-07
Delay rate (us/s)	1.28278363210E+00	Apriori rate (us/s)	1.28278350951E+00	Resid rate (us/s)	1.22589E-07	+/-	1.1E-09
Total phase (deg)	82.0	Apriori accel (us/s/s)	-6.59226741765E-05	Resid phase (deg)	136.0	+/-	7.8

ph/seg (deg)	51.0	RMS	18.8	Theor.	0.265 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	59.7	Search (2048X32)	0.262	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	58.5	Inc. seg. avg.	0.370	Inc. frq. avg.	0.364	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	47.8	Inc. frq. avg.	0.364			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	

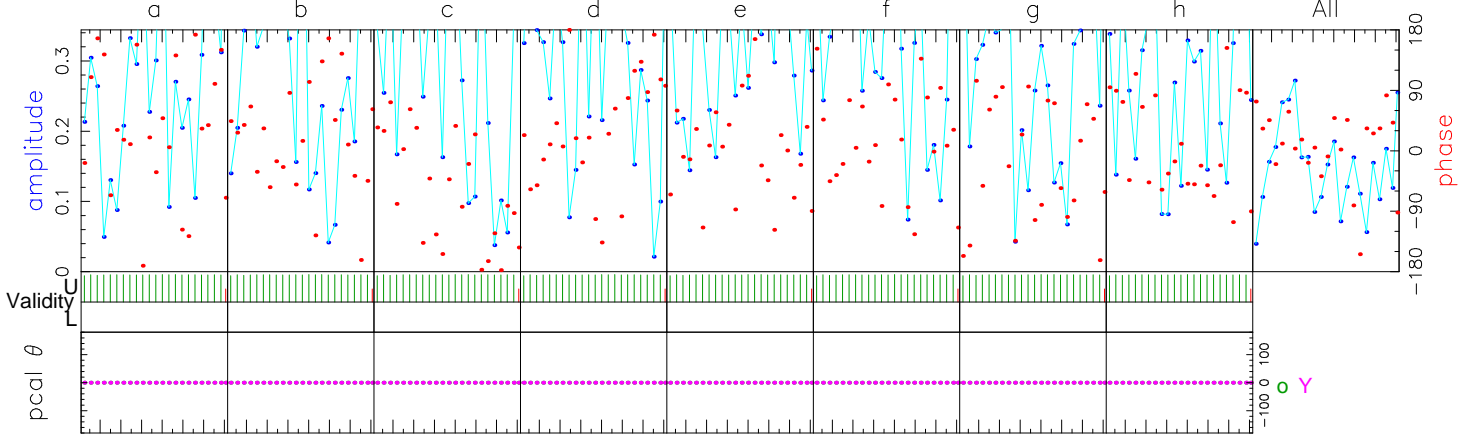
o: az 74.9 el 70.8 pa -89.6 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -9698.650 -4470.183 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/oY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/oY.W.180.18UHQS



Fringe quality 0
 SNR 5.8
 Int time 408.879
 Amp 0.115
 Phase 16.0
 PFD 8.8e-01
 Delays (us)
 SBD -0.516702
 MBD -0.001809
 Fringe rate (Hz)
 0.469137
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Yr:day 16383
 Start 2020:117
 Stop 2020:117
 FRT 084105.12
 FRT 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143616
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

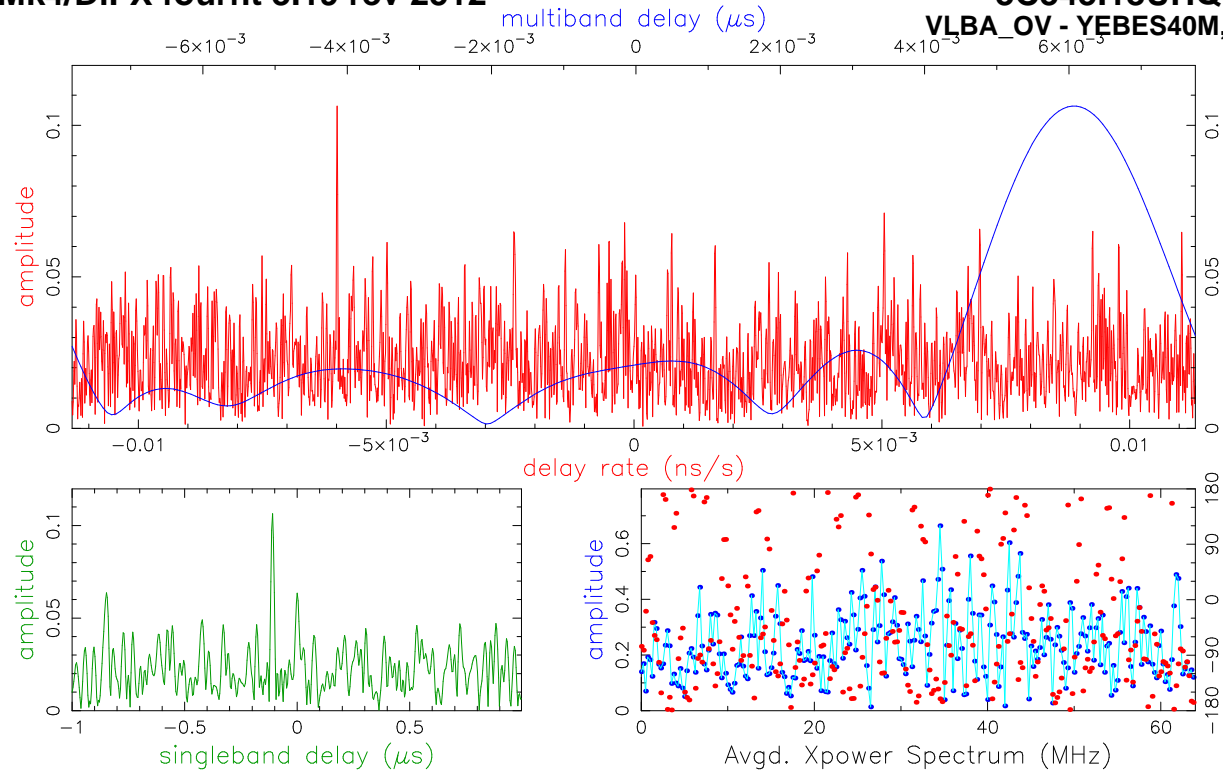


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0		
o	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	1.17980053762E+04	Apriori delay (usec)	1.17985228100E+04	Resid mbdelay (usec)	-1.80878E-03	+/-	1.9E-04
Sband delay (usec)	1.17980061080E+04	Apriori clock (usec)	8.1173506E+08	Resid sbdelay (usec)	-5.16702E-01	+/-	1.5E-03
Phase delay (usec)	1.17985228105E+04	Apriori clockrate (us/s)	-1.8999993E-08	Resid phdelay (usec)	5.14746E-07	+/-	6.4E-07
Delay rate (us/s)	1.28278895572E+00	Apriori rate (us/s)	1.28278350951E+00	Resid rate (us/s)	5.44621E-06	+/-	2.7E-09
Total phase (deg)	322.0	Apriori accel (us/s/s)	-6.59226741765E-05	Resid phase (deg)	16.0	+/-	19.9

ph/seg (deg)	53.5	Theor.	47.7	Amplitude	0.115 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	70.6	Search (2048X32)	0.102	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	28.1	Inc. seg. avg.	0.120	Inc. frq. avg.	0.108	Bits/sample: 2x2	mb window (us)	-0.008 0.008
amp/frq (%)	38.4	Inc. frq. avg.	0.108			Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011 0.011
						Data rate(Mb/s): 2048	ion window (TEC)	0.00 0.00
						nlags: 256	t_cohere infinite	

o: az 74.9 el 70.8 pa -89.6 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -9698.650 -4470.183 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/oY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/oY.W.196.18UHQS

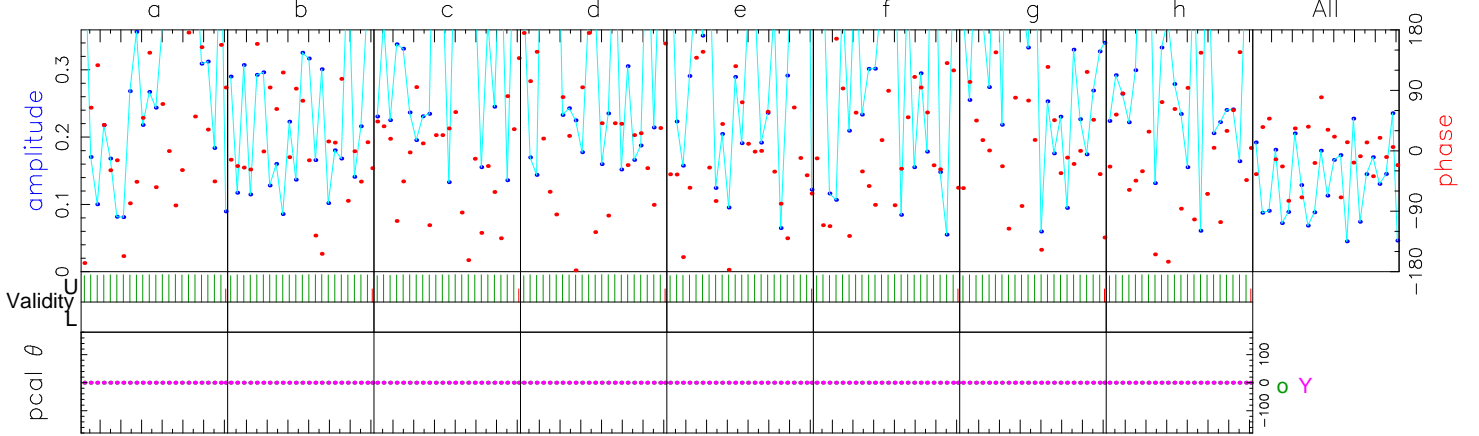


Fringe quality 0

SNR 5.9
 Int time 408.878
 Amp 0.120
 Phase -2.7
 PFD 6.3e-01
 Delays (us)
 SBD -0.109729
 MBD 0.006067
 Fringe rate (Hz)
 -0.516822
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084105.12
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143619
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

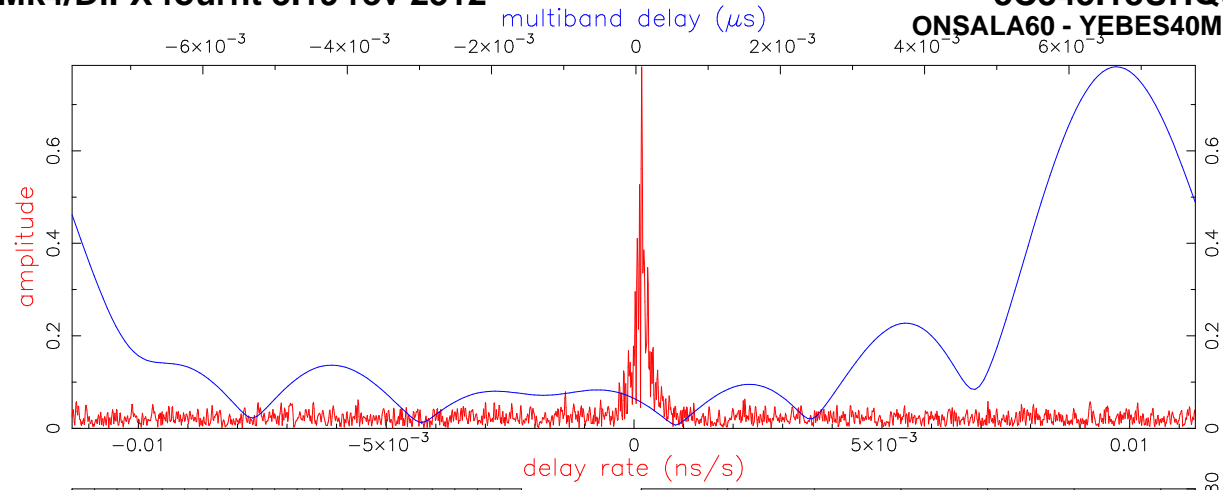


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

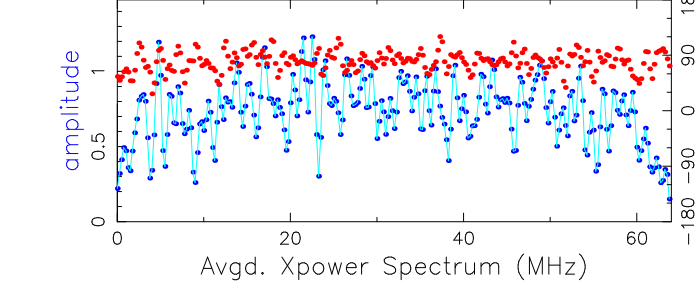
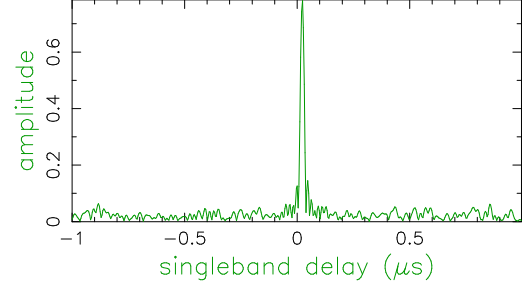
Group delay (usec)(sbd) 1.17984195019E+04 Apriori delay (usec) 1.17985228100E+04 Resid mbdelay (usec) 6.06695E-03 +/- 1.8E-04
 Sband delay (usec) 1.17984130807E+04 Apriori clock (usec) 8.1173506E+00 Resid sbdelay (usec) -1.09729E-01 +/- 1.5E-03
 Phase delay (usec) 1.17985228099E+04 Apriori clockrate (us/s) -1.8999993E-08 Resid phdelay (usec) -8.66986E-08 +/- 6.3E-07
 Delay rate (us/s) 1.28277750972E+00 Apriori rate (us/s) 1.28278350951E+00 Resid rate (us/s) -5.99979E-06 +/- 2.6E-09
 Total phase (deg) 303.4 Apriori accel (us/s/s) -6.59226741765E-05 Resid phase (deg) -2.7 +/- 19.5

RMS Theor. Amplitude 0.120 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 38.8 46.7 Search (2048X32) 0.105 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 58.0 81.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 10.0 27.5 Inc. seg. avg. 0.114 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 30.8 48.0 Inc. frq. avg. 0.109 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

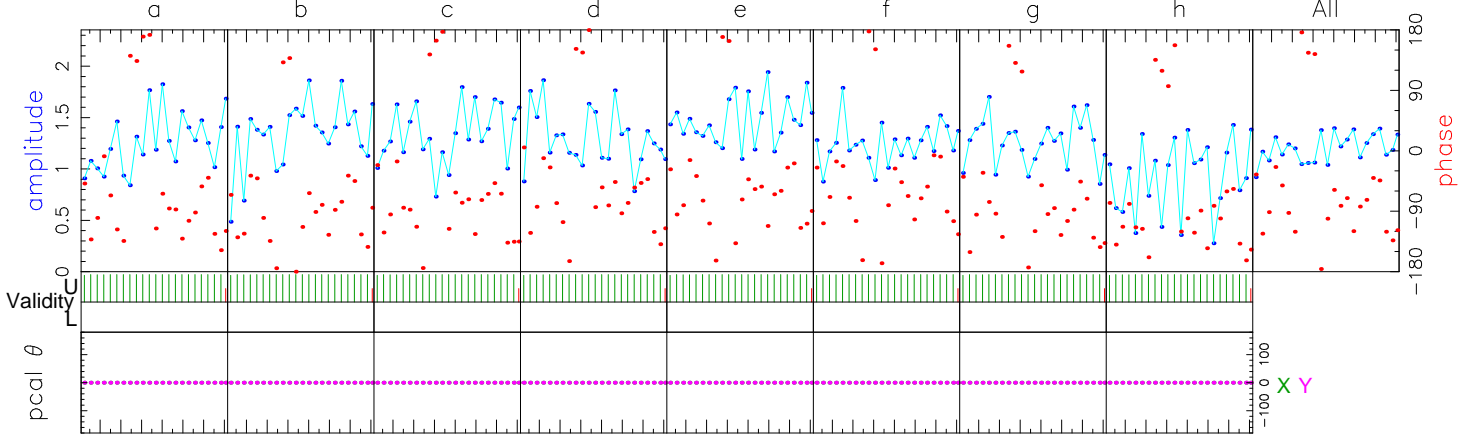
o: az 74.9 el 70.8 pa -89.6 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -9698.650 -4470.183 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/oY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/oY.W.209.18UHQS



Fringe quality 6
SNR 43.6
Int time 413.639
Amp 0.785
Phase -95.2
PFD 0.0e+00
Delays (us)
SBD 0.022609
MBD 0.006640
Fringe rate (Hz) 0.013072
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084105.12
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143609
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

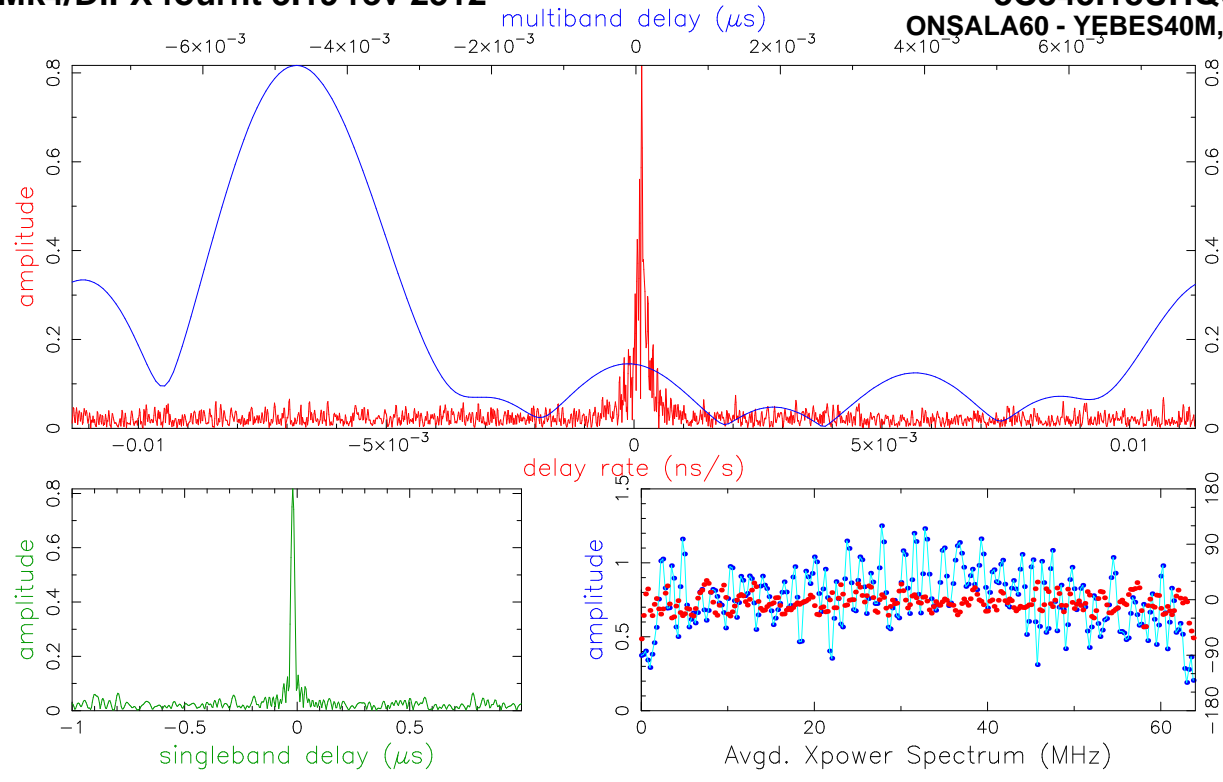


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-109.4	-100.3	-96.4	-86.4	-79.9	-72.1	-104.6	-122.1	Phase	-95.2
	0.8	0.9	0.9	0.8	1.0	0.8	0.8	0.6	Ampl.	0.8
	262.7	263.1	262.4	263.1	262.9	262.5	262.6	261.8	Sbd box	262.8
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	4.91789739119E+02	Apriori delay (usec)	4.91767474590E+02	Resid mbdelay (usec)	6.63953E-03	+/-	2.5E-05
Sband delay (usec)	4.91790083340E+02	Apriori clock (usec)	2.8792953E+01	Resid sbdelay (usec)	2.26087E-02	+/-	2.0E-04
Phase delay (usec)	4.91767471522E+02	Apriori clockrate (us/s)	3.0800002E-07	Resid phdelay (usec)	-3.06833E-06	+/-	8.5E-08
Delay rate (us/s)	2.91205335038E-01	Apriori rate (us/s)	2.91205183282E-01	Resid rate (us/s)	1.51756E-07	+/-	3.5E-10
Total phase (deg)	-1.1	Apriori accel (us/s/s)	1.14579664980E-05	Resid phase (deg)	-95.2	+/-	2.6

ph/seg (deg)	54.4	RMS	6.3	Theor.	0.785 +/- 0.018	PCal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	55.7	Search (2048X32)	0.747	Amplitude		PCal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	17.7	Interp.	0.000	Search (2048X32)		Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	14.7	Inc. seg. avg.	1.194	Inc. seg. avg.		Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	0.806	Inc. frq. avg.		Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

X: az 305.2 el 25.2 pa 32.9 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -2141.507 2094.518 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/XY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/XY.W.172.18UHQS

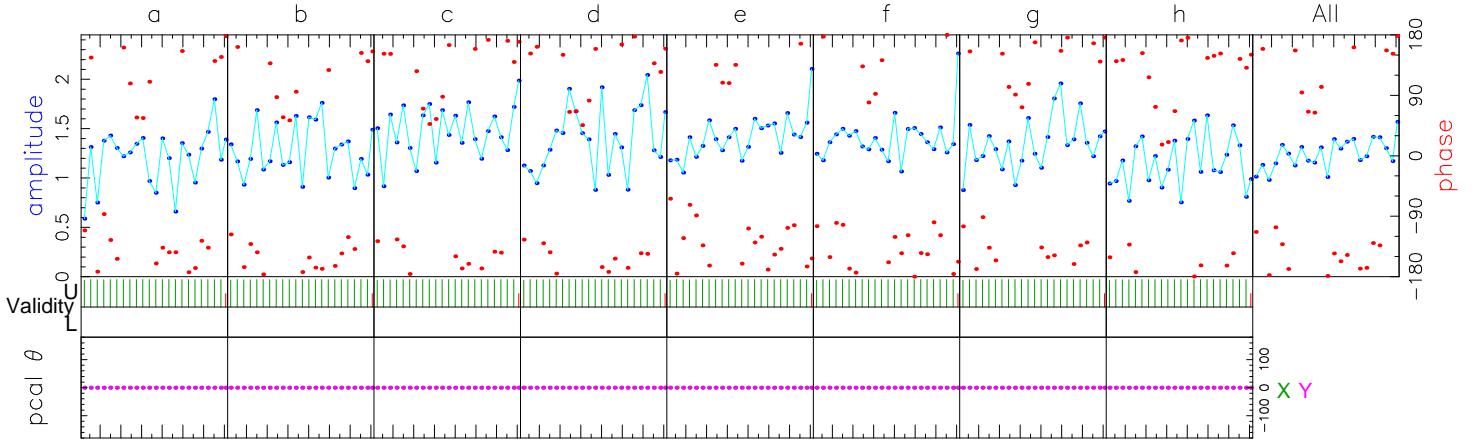


Fringe quality 6

SNR 45.4
Int time 413.639
Amp 0.817
Phase -177.2
PFD 0.0e+00
Delays (us)
SBD -0.019658
MBD -0.004709
Fringe rate (Hz) 0.013117
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

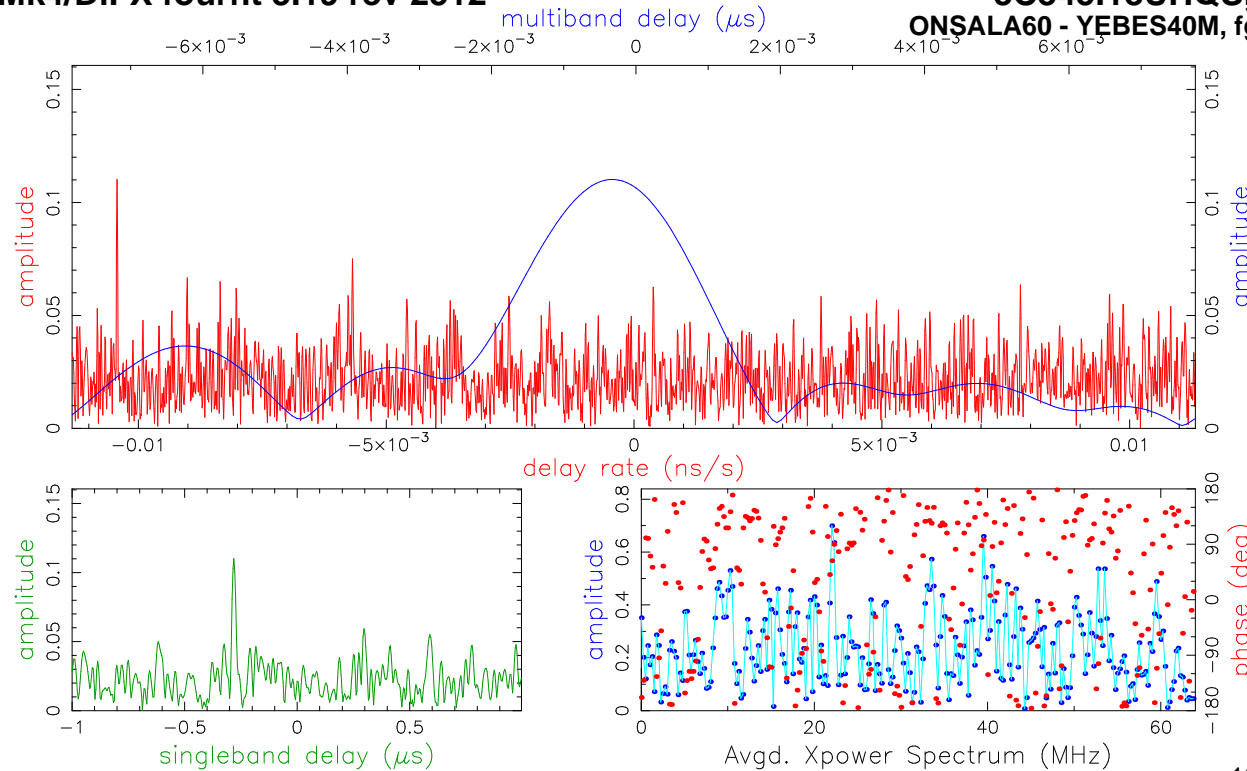
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084105.12
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143614
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



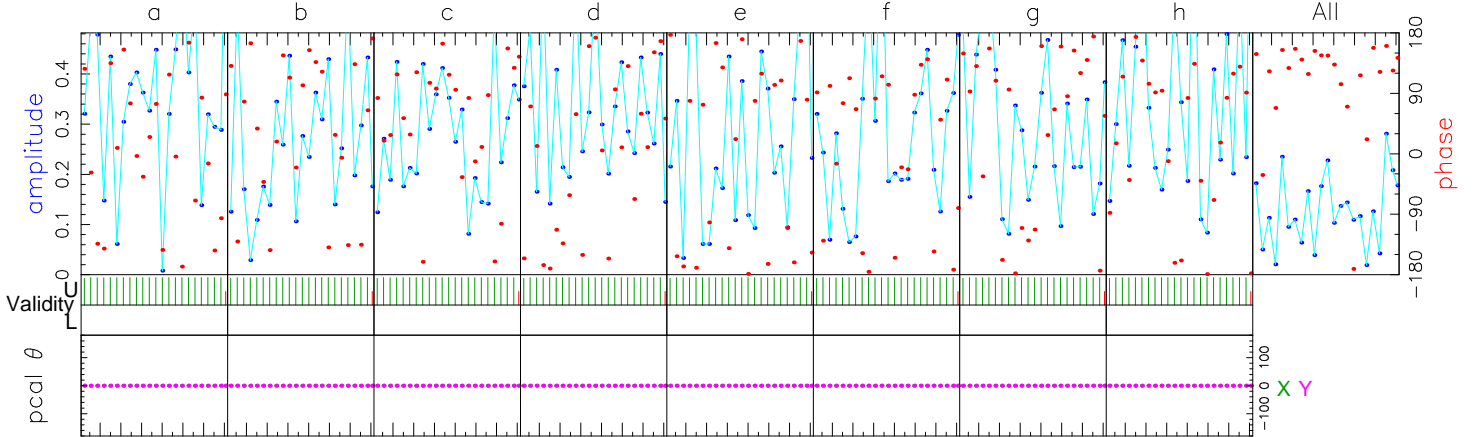
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-177.8	177.9	172.4	168.4	-148.1	-155.0	-178.5	155.8	Phase	-177.2
	0.7	0.8	0.9	0.8	0.9	1.0	0.9	0.8	Ampl.	0.9
	251.7	251.5	251.8	252.1	252.1	251.7	251.8	251.3	Sbd box	252.0
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.91747140369E+02		Apriori delay (usec)		4.91767474590E+02		Resid mbdelay (usec)		-4.70922E-03	+/- 2.4E-05
Sband delay (usec)	4.91747817090E+02		Apriori clock (usec)		2.8792953E+01		Resid sbdelay (usec)		-1.96575E-02	+/- 1.9E-04
Phase delay (usec)	4.91767468877E+02		Apriori clockrate (us/s)		3.0800002E-07		Resid phdelay (usec)		-5.71337E-06	+/- 8.1E-08
Delay rate (us/s)	2.91205335561E-01		Apriori rate (us/s)		2.91205183282E-01		Resid rate (us/s)		1.52279E-07	+/- 3.4E-10
Total phase (deg)			Apriori accel (us/s/s)		1.14579664980E-05		Resid phase (deg)		-177.2	+/- 2.5

ph/seg (deg) 53.1 6.0 Search (2048X32) 0.791 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 54.5 10.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 20.0 3.6 Inc. seg. avg. 1.233 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 11.6 6.2 Inc. frq. avg. 0.855 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 X: az 305.2 el 25.2 pa 32.9 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -2141.507 2094.518 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/XY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/XY.W.190.18UHQS



Fringe quality 0
SNR 6.1
Int time 413.639
Amp 0.161
Phase 137.4
PFD 2.1e-01
Delays (us)
SBD -0.281533
MBD -0.000351
Fringe rate (Hz)
-0.899279
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 084105.12
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143618
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

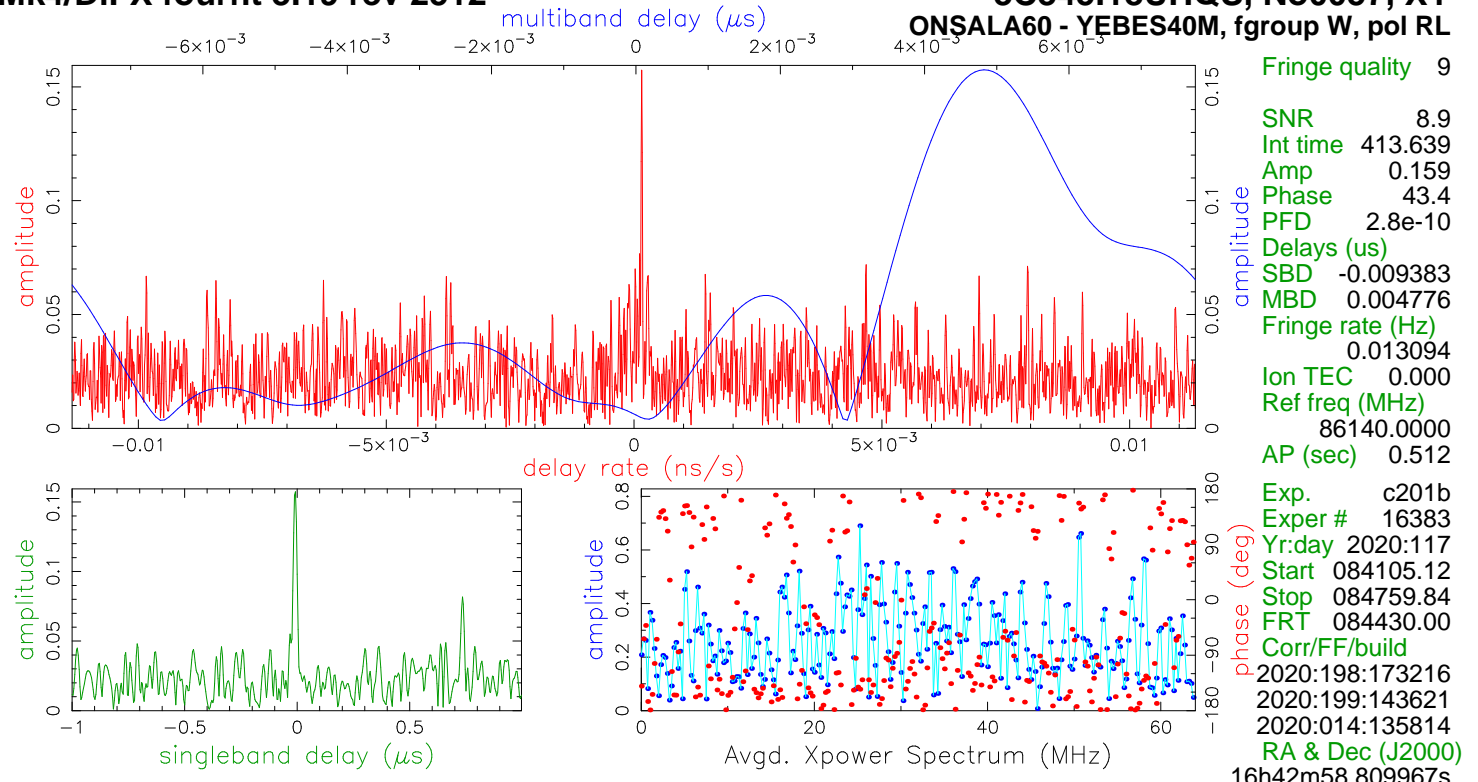


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	82.5	150.0	117.6	142.2	154.5	135.7	138.3	131.3	Phase	137.4
	0.0	0.1	0.2	0.1	0.3	0.2	0.2	0.2	Ampl.	0.1
	140.5	474.8	190.1	53.9	187.1	246.8	283.4	258.6	Sbd box	184.9
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

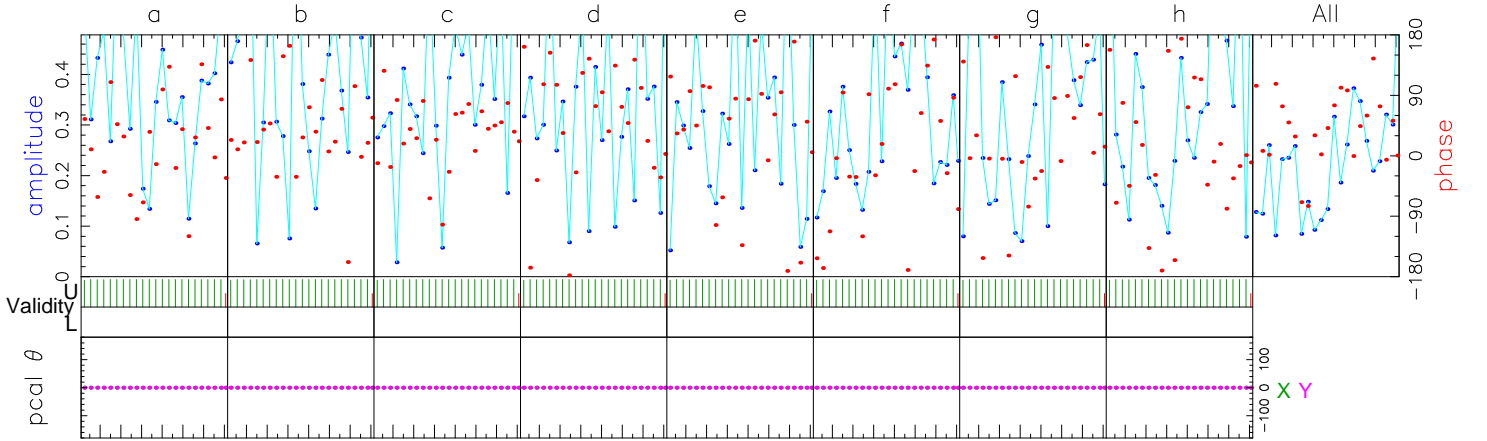
Group delay (usec)(sbd)	4.91485873128E+02	Apriori delay (usec)	4.91767474590E+02	Resid mbdelay (usec)	-3.51462E-04	+/-	1.8E-04
Sband delay (usec)	4.91485941340E+02	Apriori clock (usec)	2.8792953E+01	Resid sbdelay (usec)	-2.81533E-01	+/-	1.4E-03
Phase delay (usec)	4.91767479020E+02	Apriori clockrate (us/s)	3.0800002E-07	Resid phdelay (usec)	4.43018E-06	+/-	6.0E-07
Delay rate (us/s)	2.91194743546E-01	Apriori rate (us/s)	2.91205183282E-01	Resid rate (us/s)	-1.04397E-05	+/-	2.5E-09
Total phase (deg)	231.4	Apriori accel (us/s/s)	1.14579664980E-05	Resid phase (deg)	137.4	+/-	18.7

ph/seg (deg)	51.1	Theor.	44.8	Amplitude	0.161 +/- 0.026	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	65.5		78.2	Search (2048X32)	0.108	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	25.5		26.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	43.6		46.1	Inc. seg. avg.	0.142	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.149	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

X: az 305.2 el 25.2 pa 32.9 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -2141.507 2094.518 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/XY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/XY.W.205.18UHQS



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

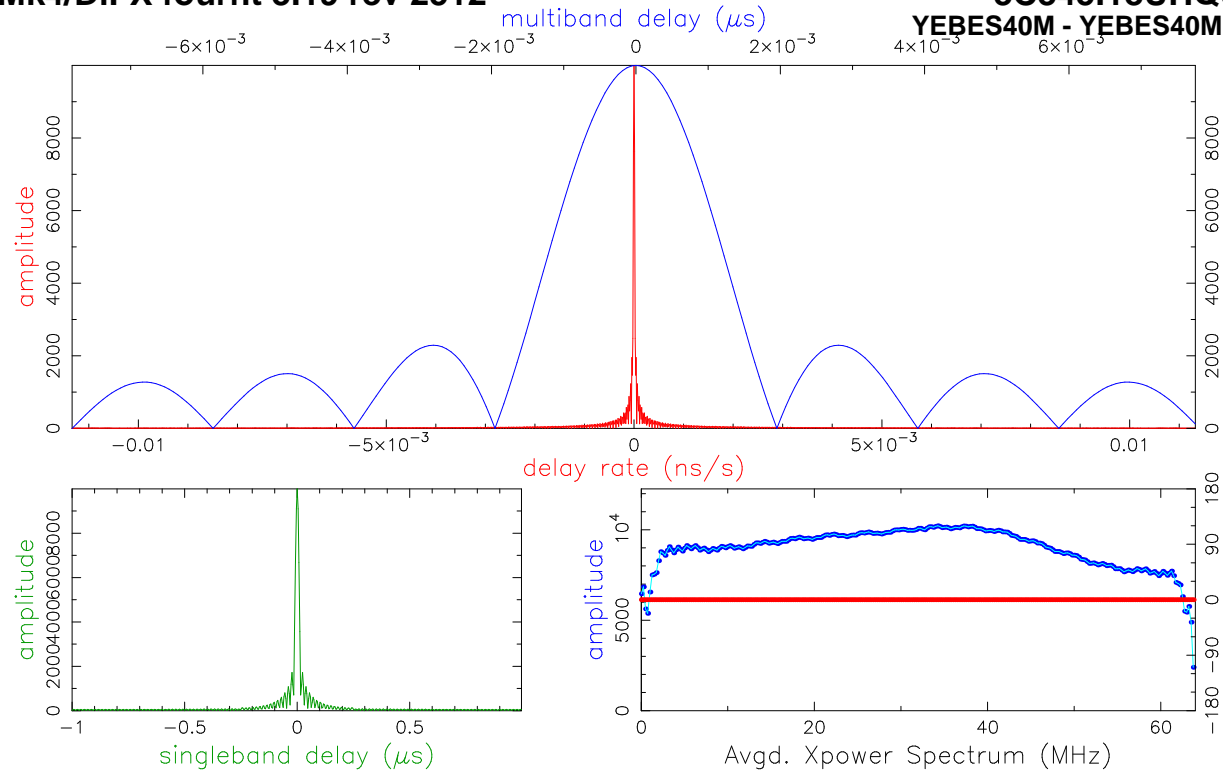


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	19.8	40.3	34.9	79.0	80.4	72.7	31.5	0.8	Phase	43.4
	0.2	0.2	0.3	0.2	0.2	0.1	0.2	0.1	Ampl.	0.2
	254.0	254.5	254.1	474.1	255.7	243.2	253.3	258.0	Sbd box	254.6
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	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)	4.91756625806E+02		Apriori delay (usec)		4.91767474590E+02		Resid mbdelay (usec)		4.77622E-03	+/- 1.2E-04
Sband delay (usec)	4.91758091090E+02		Apriori clock (usec)		2.8792953E+01		Resid sbdelay (usec)		-9.38350E-03	+/- 9.7E-04
Phase delay (usec)	4.91767475990E+02		Apriori clockrate (us/s)		3.0800002E-07		Resid phdelay (usec)		1.40014E-06	+/- 4.2E-07
Delay rate (us/s)	2.91205335292E-01		Apriori rate (us/s)		2.91205183282E-01		Resid rate (us/s)		1.52010E-07	+/- 1.7E-09
Total phase (deg)			137.4		1.14579664980E-05		Resid phase (deg)		43.4	+/- 12.9

	RMS	Theor.	Amplitude	0.159 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
ph/seg (deg)	53.5	31.0	Search (2048X32)	0.153	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
amp/seg (%)	72.9	54.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	31.8	18.3	Inc. seg. avg.	0.193	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011
amp/frq (%)	41.8	31.9	Inc. frq. avg.	0.164	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

X: az 305.2 el 25.2 pa 32.9 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -2141.507 2094.518 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/XY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/XY.W.215.18UHQS

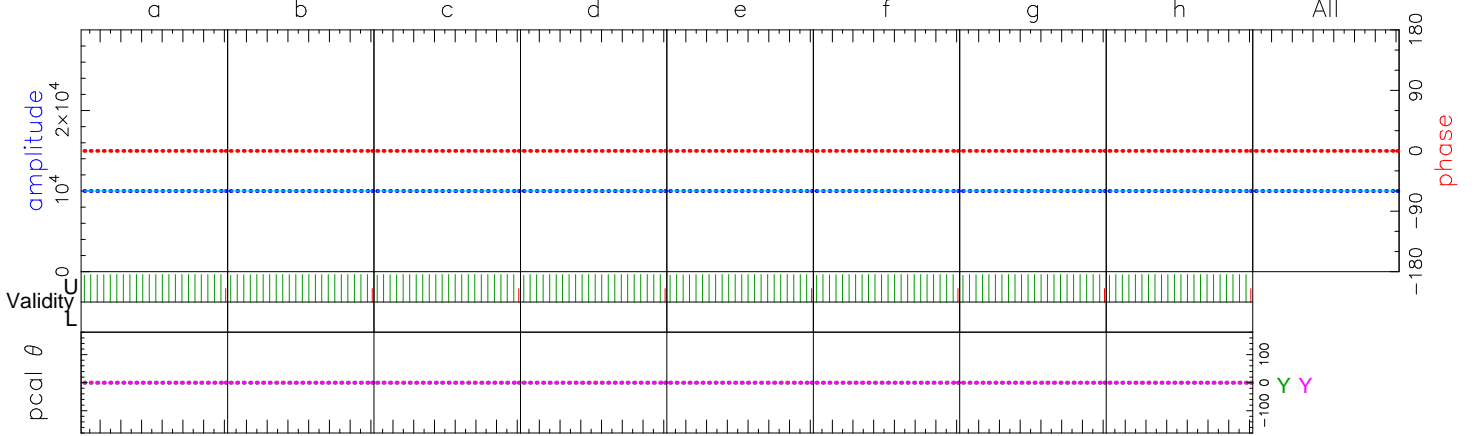


Fringe quality 9

SNR 556170.9
 Int time 413.639
 Amp 9999.999
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz) 0.000000
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201b
 Yr:day 16383
 Start 2020:117
 Stop 2020:117
 FRT 084105.12
 084759.84
 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143610
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



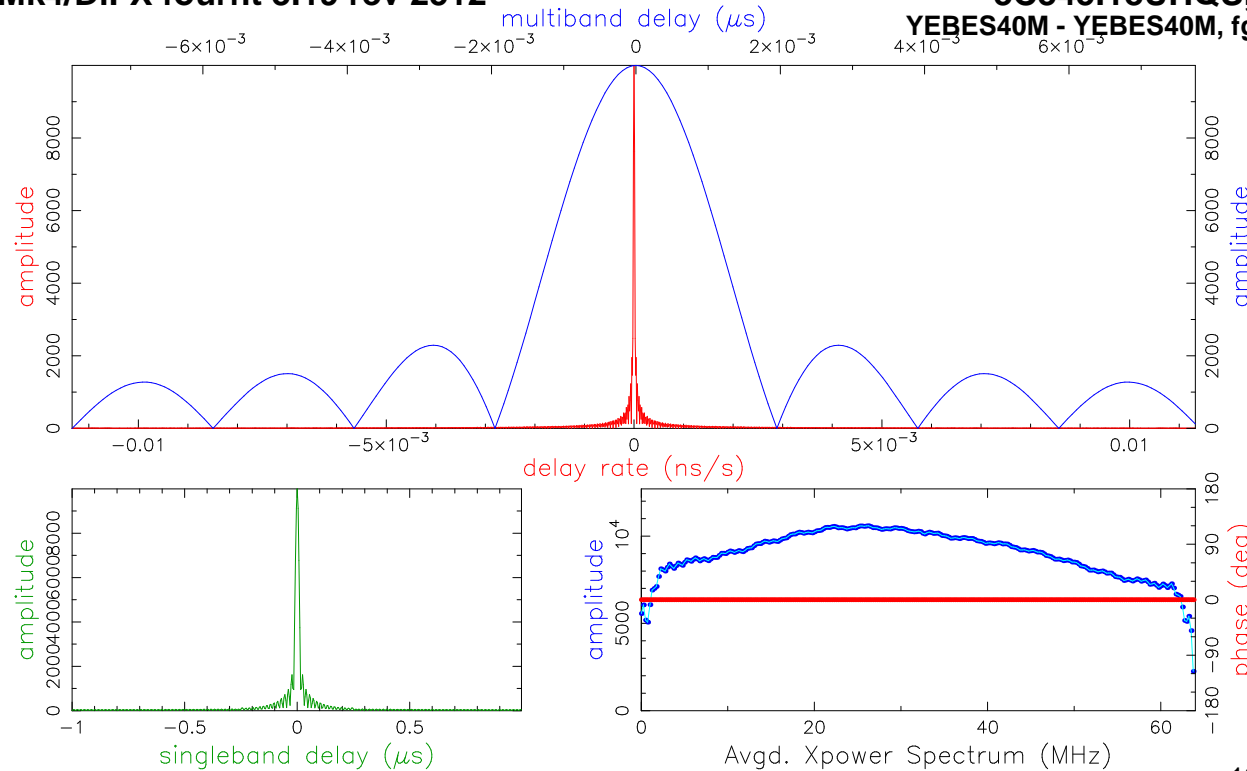
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0		
Y	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	10000.0
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Mani PC	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
									Chan ids	
									Tracks	
									Chan ids	
									Tracks	

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.0E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-08
Phase delay (usec)	5.51057758946E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	5.51058E-20	+/-	6.6E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.8E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

ph/seg (deg)	0.0	RMS	Theor.	Amplitude	9999.999 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.0	0.0	0.0	Search (2048X32)	9999.999	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	9999.999	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

Y: az 302.7 el 24.0 pa 56.8 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/YY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/YY.W.174.18UHQS

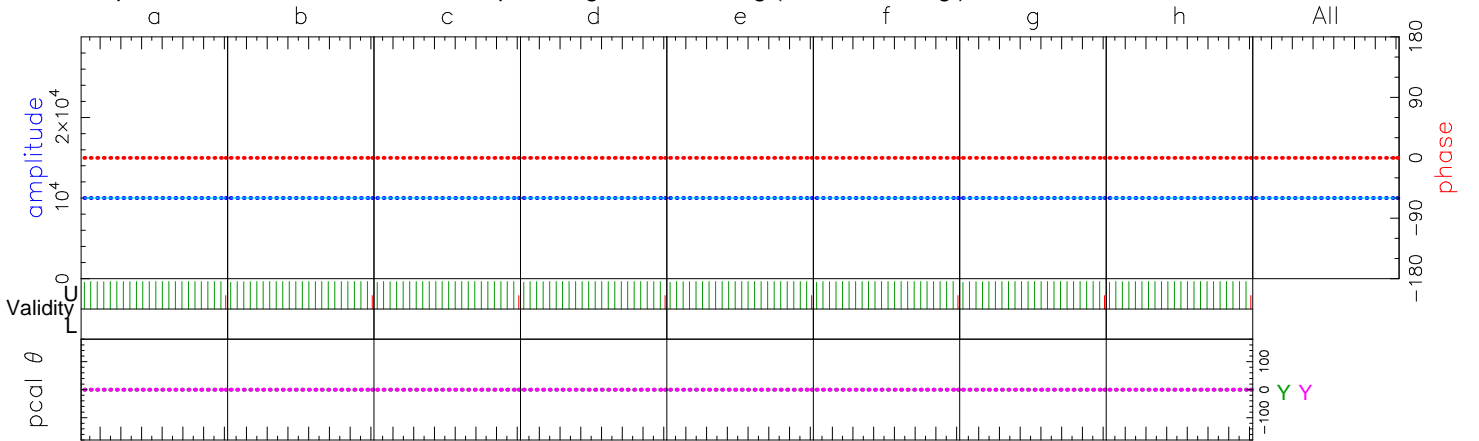


Fringe quality 9

SNR 556170.9
Int time 413.639
Amp 9999.999
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Yr:day 2020:117
Start 084105.12
Stop 084759.84
FRT 084430.00
Corr/FF/build
2020:198:173216
2020:199:143613
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

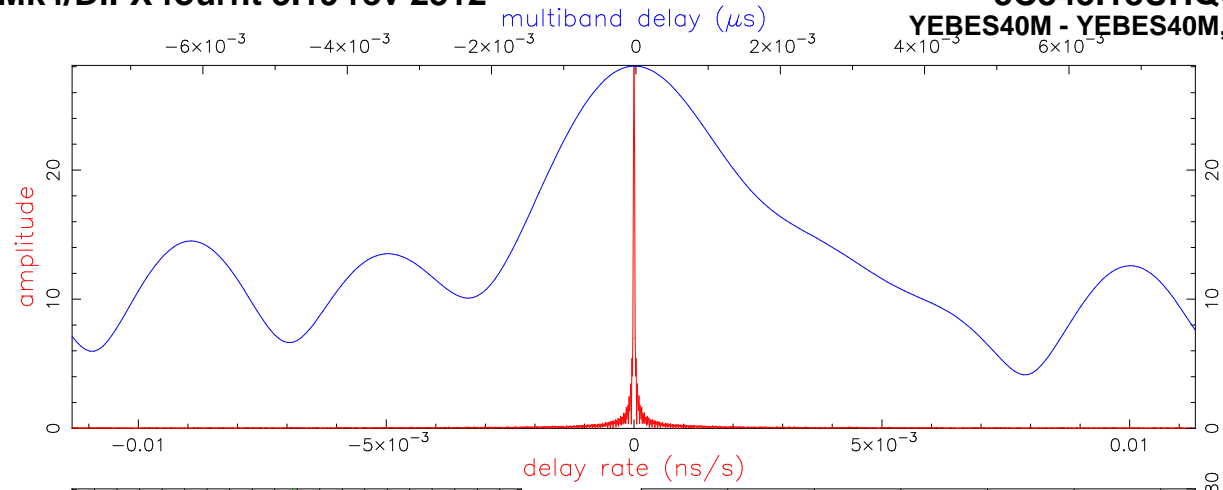


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 2.0E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.5E-08
 Phase delay (usec) 3.92912279201E-20 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 3.92912E-20 +/- 6.6E-12
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 2.8E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

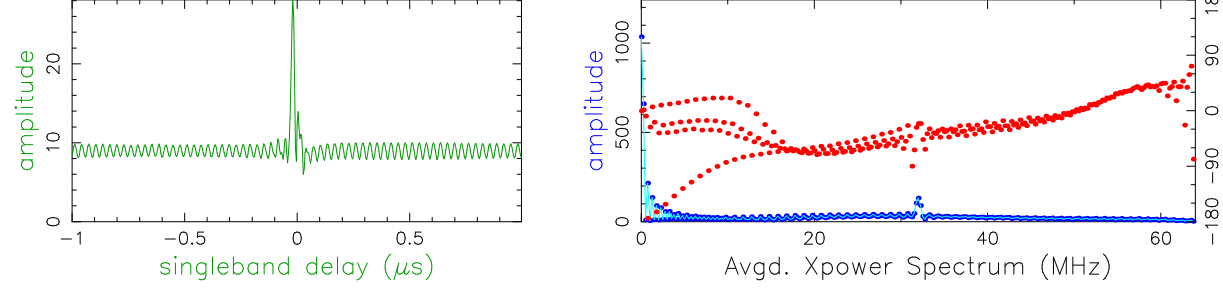
RMS Theor. Amplitude 9999.999 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.999 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Y: az 302.7 el 24.0 pa 56.8 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/YY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/YY.W.187.18UHQS



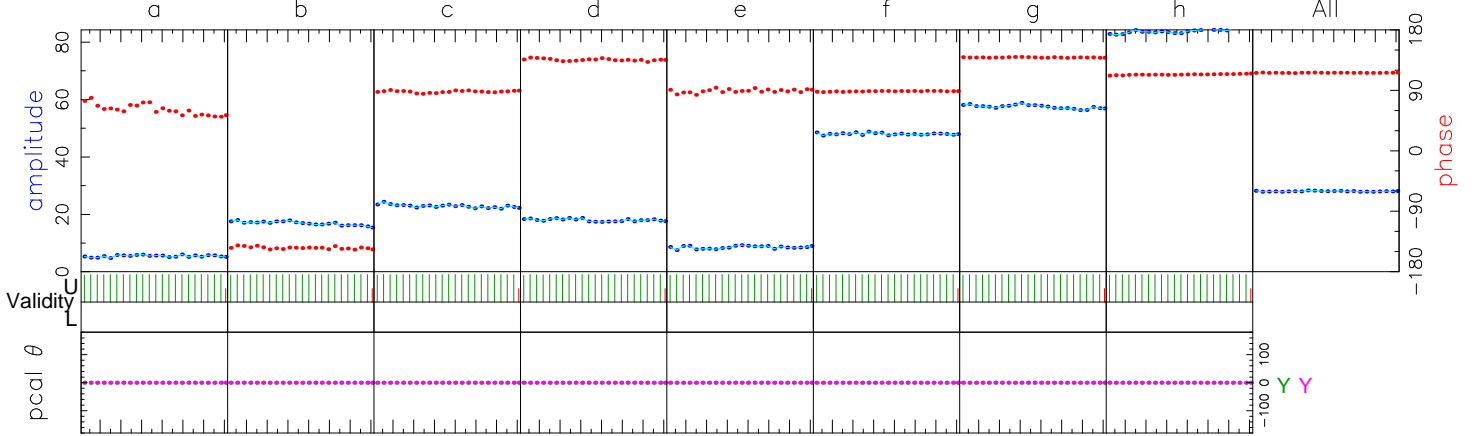
Fringe quality 5

SNR 1563.1
 Int time 413.639
 Amp 28.106
 Phase 116.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.018981
 MBD 0.000002
 Fringe rate (Hz)
 -0.000005
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084105.12
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143617
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

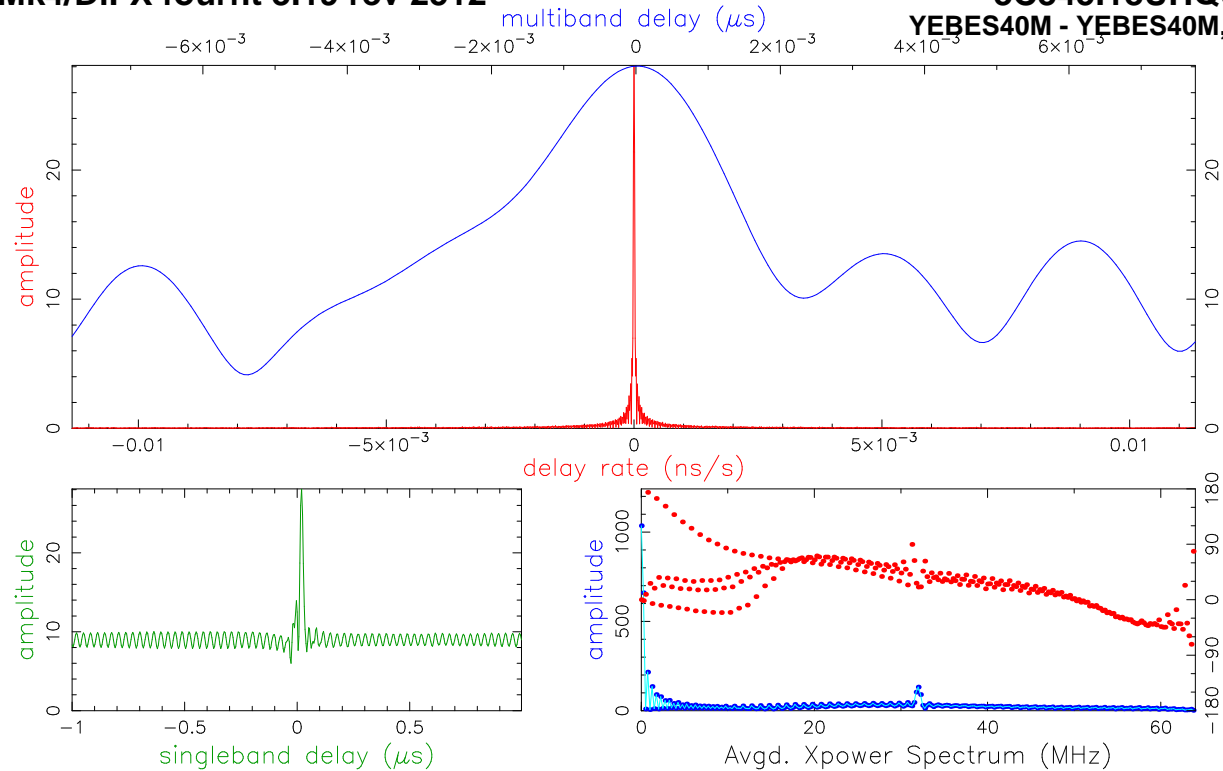


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	61.3	-144.3	88.0	135.5	89.1	88.5	138.9	113.5	Phase	116.0
	5.4	16.9	22.9	18.0	8.5	48.1	57.5	83.8	Ampl.	32.6
	255.2	254.1	255.1	255.1	255.0	251.5	248.6	252.6	Sbd box	252.1
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -1.56232500000E-02 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) 1.75000E-06 +/- 6.9E-07
 Sband delay (usec) -1.89815000000E-02 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) -1.89815E-02 +/- 5.5E-06
 Phase delay (usec) 3.74220340743E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 3.74220E-06 +/- 2.4E-09
 Delay rate (us/s) -5.24332638492E-11 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -5.24333E-11 +/- 9.9E-12
 Total phase (deg) 116.0 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 116.0 +/- 0.1

RMS Theor. Amplitude 28.106 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.2 0.2 Search (2048X32) 28.050 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.5 0.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 51.8 0.1 Inc. seg. avg. 28.050 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 93.4 0.2 Inc. frq. avg. 32.639 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

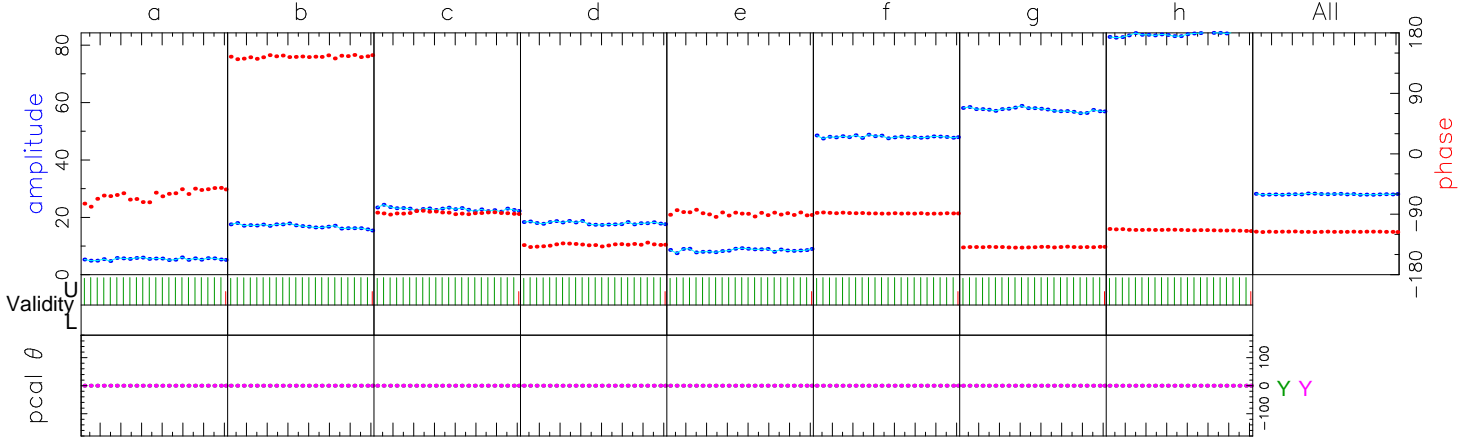
Y: az 302.7 el 24.0 pa 56.8 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/YY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/YY.W.204.18UHQS



Fringe quality 5

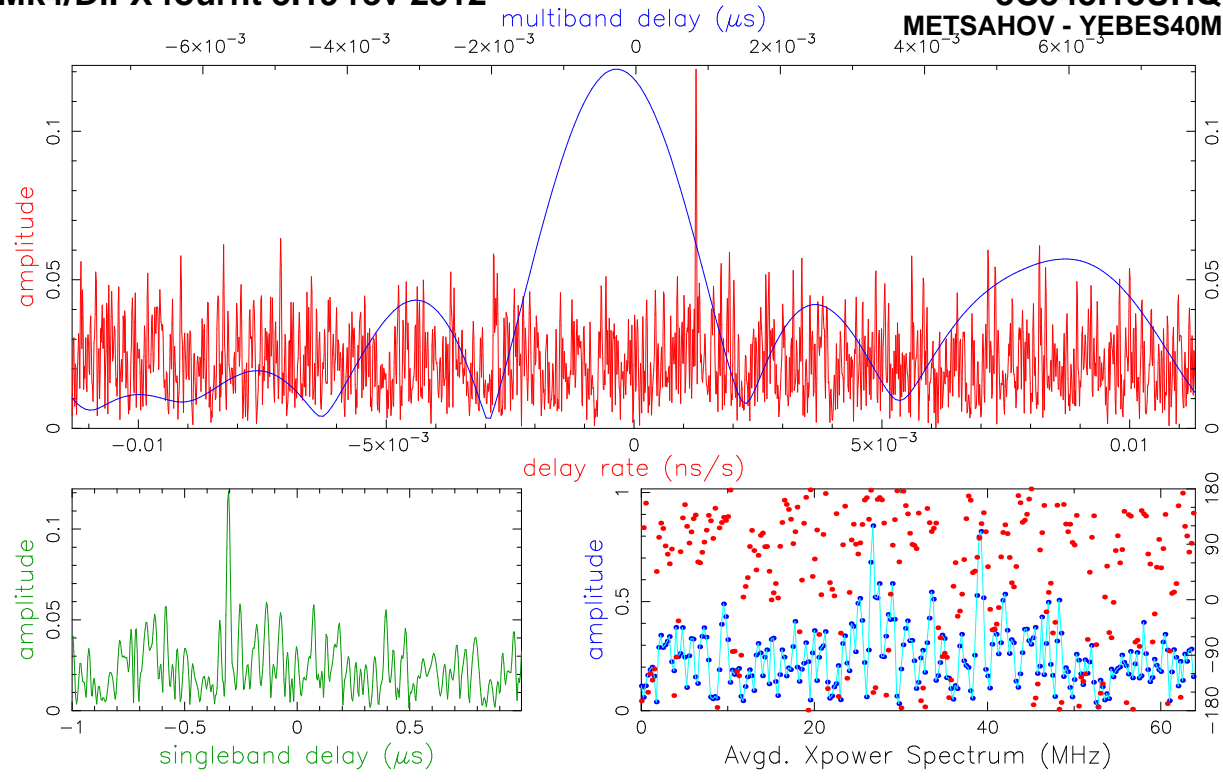
SNR 1563.1
 Int time 413.639
 Amp 28.106
 Phase -116.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.018981
 MBD -0.000002
 Fringe rate (Hz)
 0.000005
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084105.12
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143621
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



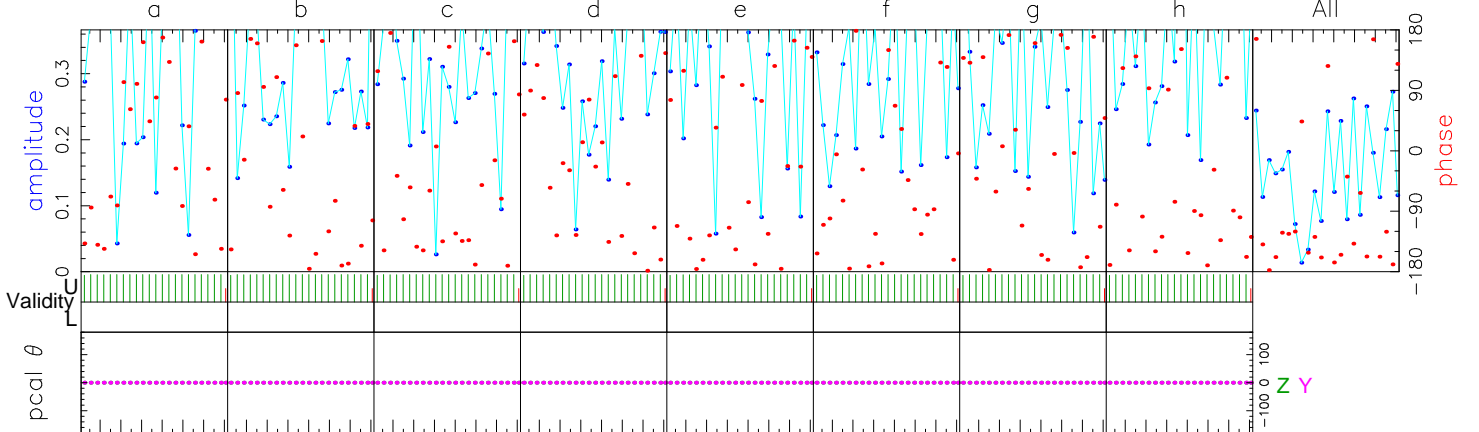
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-61.3	144.3	-88.0	-135.5	-89.1	-88.5	-138.9	-113.5	Phase	-116.0
	5.4	16.9	22.9	18.0	8.5	48.1	57.5	83.8	Ampl.	32.6
	258.8	259.9	258.9	258.9	259.0	262.5	265.4	261.4	Sbd box	261.9
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.56232500000E-02		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-1.75000E-06	+/- 6.9E-07
Sband delay (usec)	1.89815000000E-02		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		1.89815E-02	+/- 5.5E-06
Phase delay (usec)	-3.74220340707E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-3.74220E-06	+/- 2.4E-09
Delay rate (us/s)	5.24332638492E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		5.24333E-11	+/- 9.9E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-116.0	+/- 0.1

ph/seg (deg) 0.2 0.2 Search (2048X32) 28.050 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.5 0.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 51.8 0.1 Inc. seg. avg. 28.050 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 93.4 0.2 Inc. frq. avg. 32.639 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Y: az 302.7 el 24.0 pa 56.8 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/YY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/YY.W.214.18UHQS



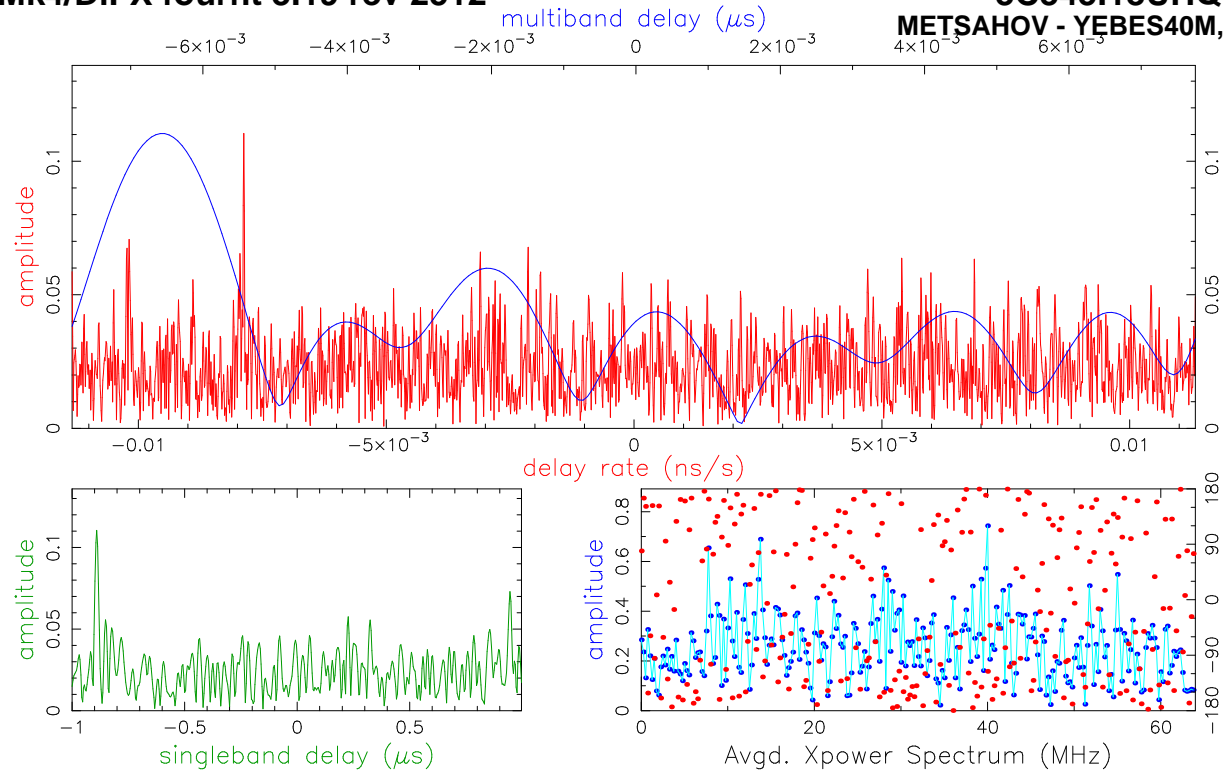
Fringe quality 0
 SNR 6.8
 Int time 413.334
 Amp 0.122
 Phase -156.7
 PFD 4.1e-03
 Delays (us)
 SBD -0.305646
 MBD -0.000288
 Fringe rate (Hz) 0.107661
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084105.12
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143613
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



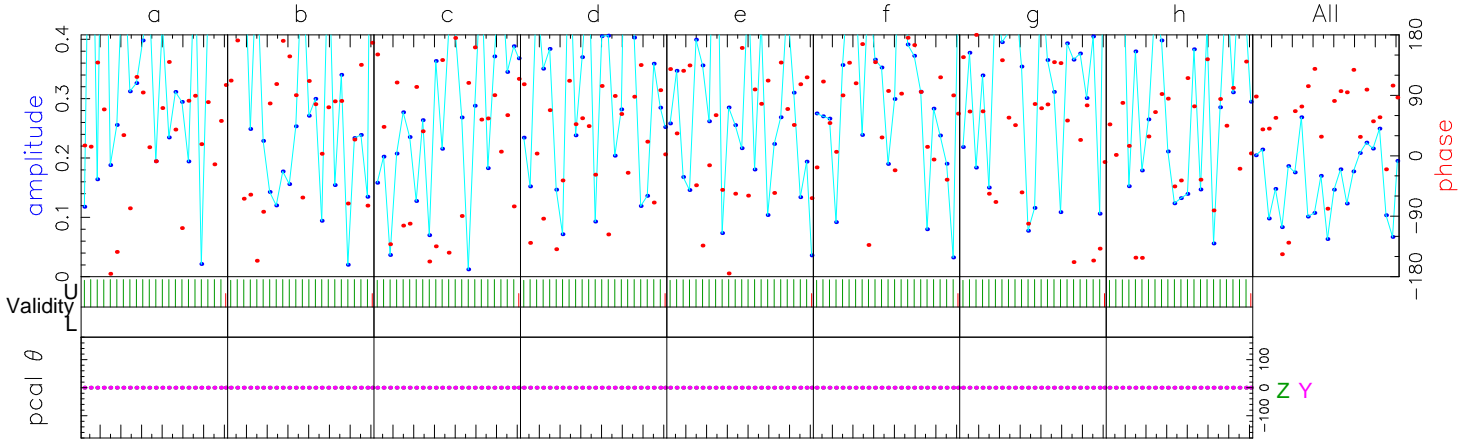
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-149.8	-164.7	-146.4	146.5	-176.8	-120.4	-172.9	-148.6	Phase	-156.7
	0.1	0.1	0.2	0.0	0.2	0.1	0.1	0.2	Ampl.	0.1
	464.9	288.7	177.9	303.3	367.2	376.1	111.1	178.9	Sbd box	178.8
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.26748081320E+02		Apriori delay (usec)		-6.26435293564E+02		Resid mbdelay (usec)		-2.87756E-04	+/- 1.6E-04
Sband delay (usec)	-6.26740939564E+02		Apriori clock (usec)		-1.2090452E+01		Resid sbdelay (usec)		-3.05646E-01	+/- 1.3E-03
Phase delay (usec)	-6.26435298616E+02		Apriori clockrate (us/s)		-2.0400000E-07		Resid phdelay (usec)		-5.05154E-06	+/- 5.5E-07
Delay rate (us/s)	3.90037287473E-01		Apriori rate (us/s)		3.90036037631E-01		Resid rate (us/s)		1.24984E-06	+/- 2.3E-09
Total phase (deg)			Apriori accel (us/s/s)		1.90339671759E-05		Resid phase (deg)		-156.7	+/- 17.0

ph/seg (deg) RMS Theor. Amplitude 0.122 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 66.6 71.0 Search (2048X32) 0.119 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 30.3 24.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 41.4 41.9 Inc. seg. avg. 0.123 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Z: az 313.1 el 22.0 pa 29.0 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -2860.988 2774.905 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/ZY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/ZY.W.184.18UHQS simultaneous interpolator



Fringe quality 0
 SNR 6.1
 Int time 413.334
 Amp 0.136
 Phase 72.4
 PFD 2.0e-01
 Delays (us)
 SBD -0.890903
 MBD -0.006575
 Fringe rate (Hz)
 -0.678986
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084105.12
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143616
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

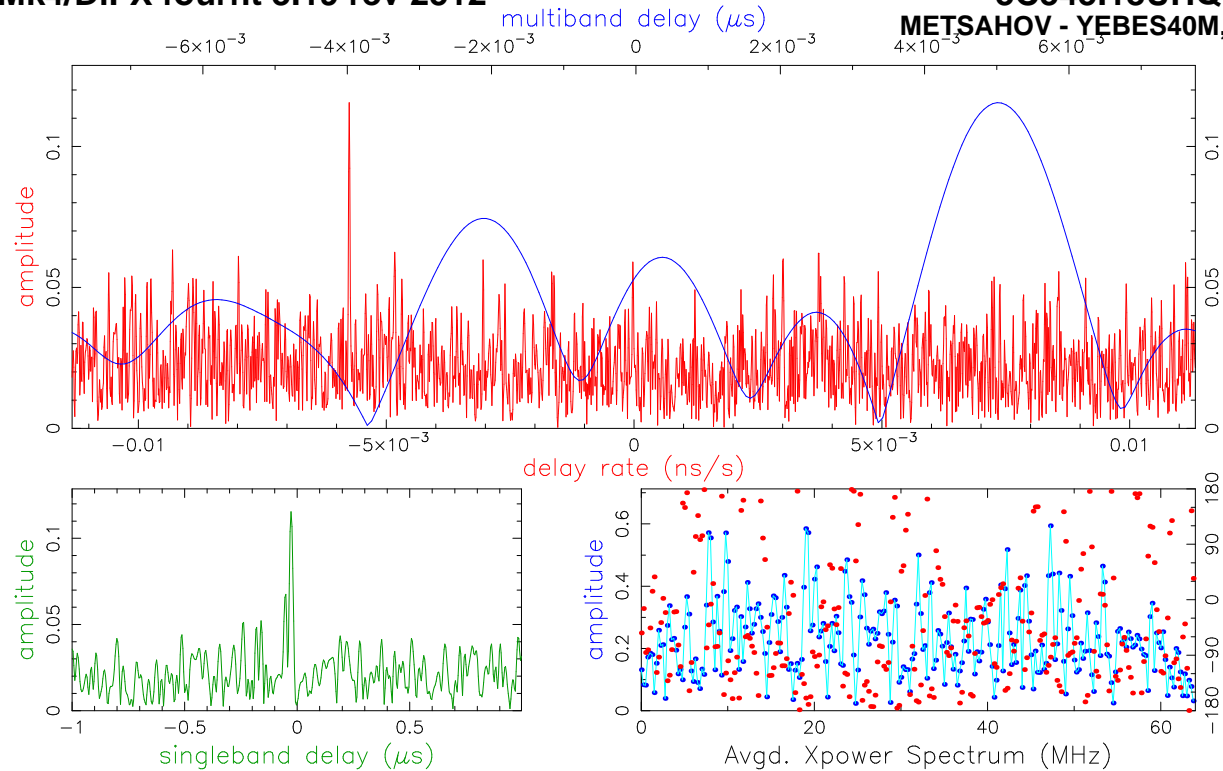
Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:Y	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		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

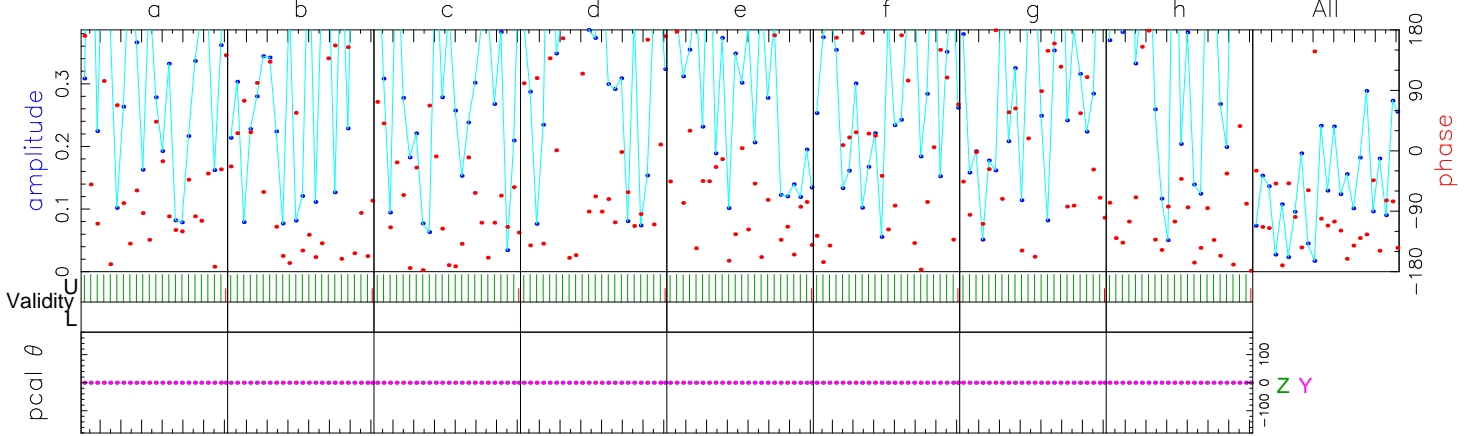
Group delay (usec)(sbd)	-6.27332493148E+02	Apriori delay (usec)	-6.26435293564E+02	Resid mbdelay (usec)	-6.57458E-03	+/-	1.8E-04
Sband delay (usec)	-6.27326196064E+02	Apriori clock (usec)	-1.2090452E+01	Resid sbdelay (usec)	-8.90903E-01	+/-	1.4E-03
Phase delay (usec)	-6.26435291229E+02	Apriori clockrate (us/s)	-2.0400000E-07	Resid phdelay (usec)	2.33535E-06	+/-	6.0E-07
Delay rate (us/s)	3.90028155277E-01	Apriori rate (us/s)	3.90036037631E-01	Resid rate (us/s)	-7.88235E-06	+/-	2.5E-09
Total phase (deg)		Apriori accel (us/s/s)	1.90339671759E-05	Resid phase (deg)	72.4	+/-	18.7

ph/seg (deg)	64.6	Theor.	44.8	Amplitude	0.136 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	69.6		78.1	Search (2048X32)	0.109	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	33.1		26.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	49.5		46.1	Inc. seg. avg.	0.152	Sample rate(MISamp/s): 128	mb window (us) -0.008 0.008
				Inc. frq. avg.	0.134	Data rate(Mb/s): 2048	dr window (ns/s) -0.011 0.011
						nlags: 256	t_cohere infinite
							ion window (TEC) 0.00 0.00



Fringe quality 0
 SNR 6.4
 Int time 413.334
 Amp 0.129
 Phase -115.0
 PFD 3.6e-02
 Delays (us)
 SBD -0.027114
 MBD 0.005026
 Fringe rate (Hz)
 -0.495475
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084105.12
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143620
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

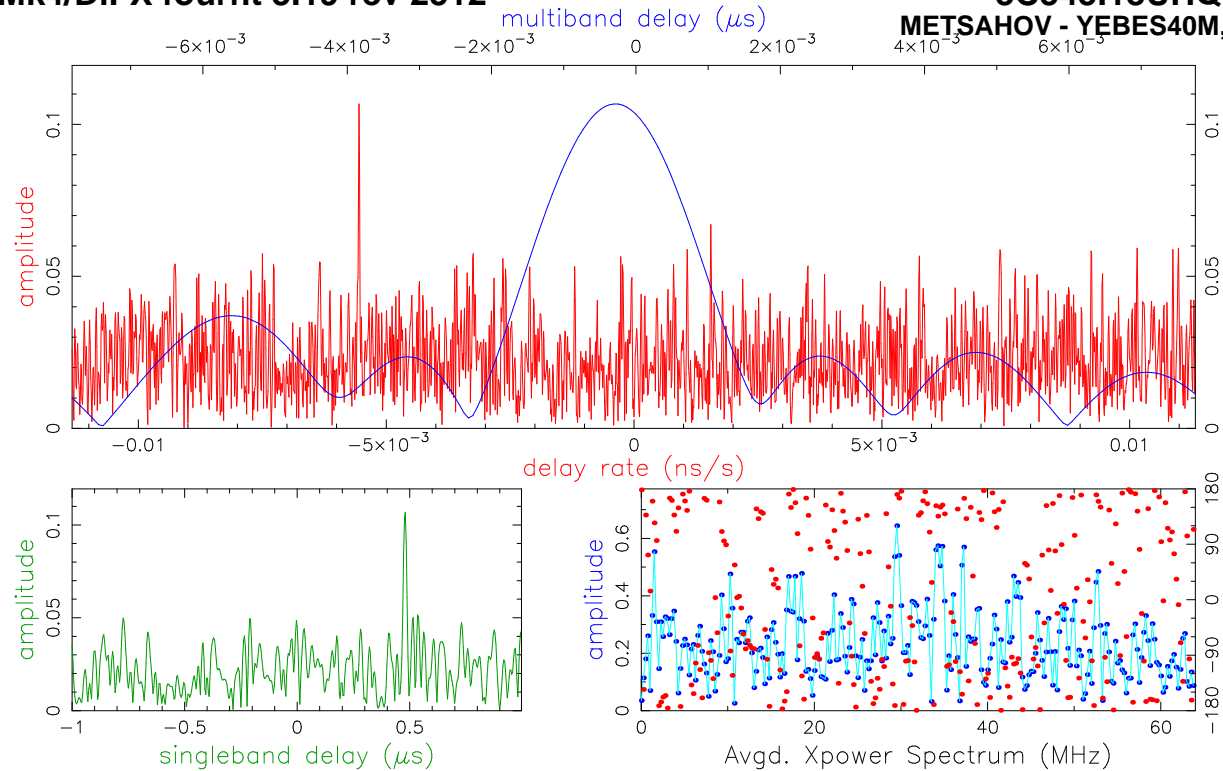


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-97.7	-147.4	-77.8	-139.3	-89.1	-150.2	-62.4	-120.0	Phase	-115.0
	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.3	Ampl.	0.1
	54.7	251.2	500.2	147.5	126.4	115.2	126.0	249.4	Sbd box	250.1
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-6.26461517950E+02	Apriori delay (usec)	-6.26435293564E+02	Resid mbdelay (usec)	5.02561E-03	+/-	1.7E-04
Sband delay (usec)	-6.26462408064E+02	Apriori clock (usec)	-1.2090452E+01	Resid sbdelay (usec)	-2.71145E-02	+/-	1.3E-03
Phase delay (usec)	-6.26435297274E+02	Apriori clockrate (us/s)	-2.0400000E-07	Resid phdelay (usec)	-3.70968E-06	+/-	5.8E-07
Delay rate (us/s)	3.90030285661E-01	Apriori rate (us/s)	3.90036037631E-01	Resid rate (us/s)	-5.75197E-06	+/-	2.4E-09
Total phase (deg)	-182.6	Apriori accel (us/s/s)	1.90339671759E-05	Resid phase (deg)	-115.0	+/-	17.8

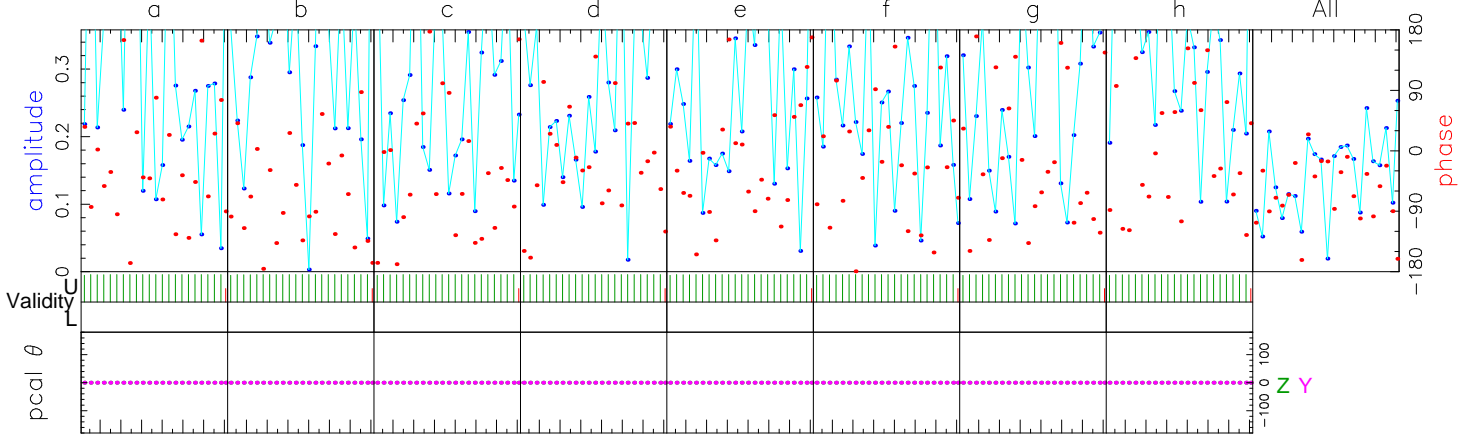
ph/seg (deg)	45.3	Theor.	42.8	Amplitude	0.129 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	69.3	Search (2048X32)	0.108	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	36.6	Inc. seg. avg.	0.119	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	57.6	Inc. frq. avg.	0.130	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

Z: az 313.1 el 22.0 pa 29.0 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -2860.988 2774.905 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/ZY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/ZY.W.212.18UHQS



Fringe quality 0
 SNR 6.0
 Int time 413.334
 Amp 0.119
 Phase -53.6
 PFD 4.0e-01
 Delays (us)
 SBD 0.479094
 MBD -0.000315
 Fringe rate (Hz)
 -0.478919
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 084105.12
 Stop 084759.84
 FRT 084430.00
 Corr/FF/build
 2020:198:173216
 2020:199:143623
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 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
	-50.9	-71.4	-49.1	-44.4	-60.2	-43.0	-61.1	-36.9	Phase	-53.6
	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.2	Ampl.	0.1
	266.7	419.7	233.9	168.8	87.7	280.0	358.7	53.9	Sbd box	379.6
U/L	810/0	810/0	810/0	810/0	810/0	810/0	810/0	810/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-6.25951233094E+02	Apriori delay (usec)	-6.26435293564E+02	Resid mbdelay (usec)	-3.14530E-04	+/-	1.8E-04
Sband delay (usec)	-6.25956199564E+02	Apriori clock (usec)	-1.2090452E+01	Resid sbdelay (usec)	4.79094E-01	+/-	1.4E-03
Phase delay (usec)	-6.26435295294E+02	Apriori clockrate (us/s)	-2.0400000E-07	Resid phdelay (usec)	-1.72947E-06	+/-	6.2E-07
Delay rate (us/s)	3.90030477856E-01	Apriori rate (us/s)	3.90036037631E-01	Resid rate (us/s)	-5.55977E-06	+/-	2.6E-09
Total phase (deg)	-121.2	Apriori accel (us/s/s)	1.90339671759E-05	Resid phase (deg)	-53.6	+/-	19.1

ph/seg (deg)	44.5	Theor.	45.8	Amplitude	0.119 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	63.5		79.9	Search (2048X32)	0.104	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	12.4		27.0	Inc. seg. avg.	0.119	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	33.4		47.1	Inc. frq. avg.	0.108	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 2048	nlags: 256			
							t_cohere infinite			

Z: az 313.1 el 22.0 pa 29.0 Y: az 302.7 el 24.0 pa 56.8 u,v (fr/asec) -2860.988 2774.905 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0057/ZY..18UHQS Output file: /Exps/c201b/v1/1234/No0057/ZY.W.219.18UHQS