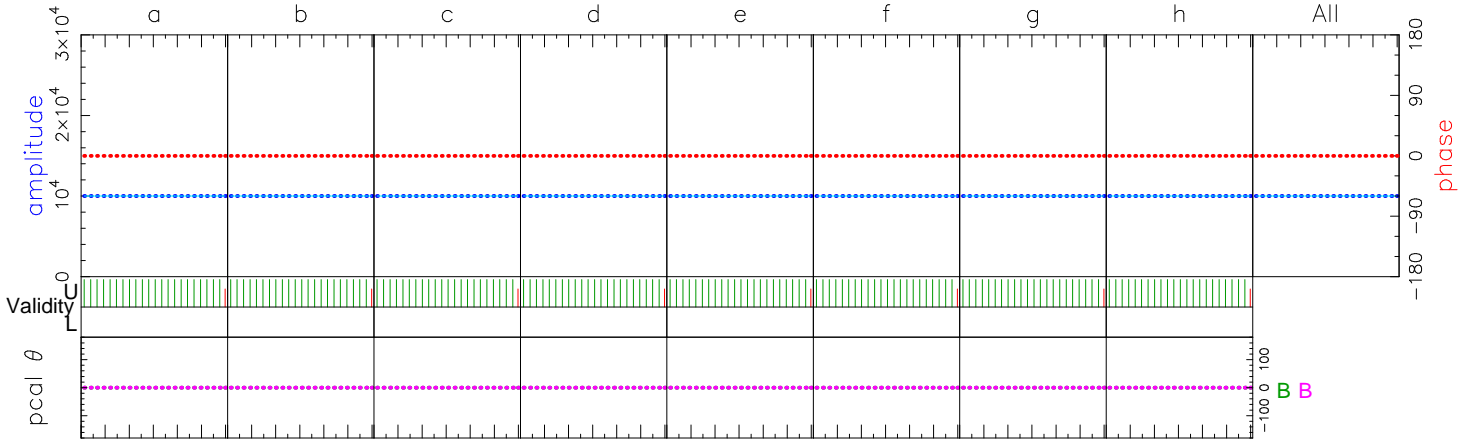


Fringe quality 9

SNR 518538.5  
Int time 359.556  
Amp 10000.000  
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. f201b  
Exper # 16383  
Yr:day 2020:115  
Start 121500.00  
Stop 122059.94  
FRT 121800.00  
Corr/FF/build  
2020:115:185931  
2020:115:190115  
2020:014:135814  
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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

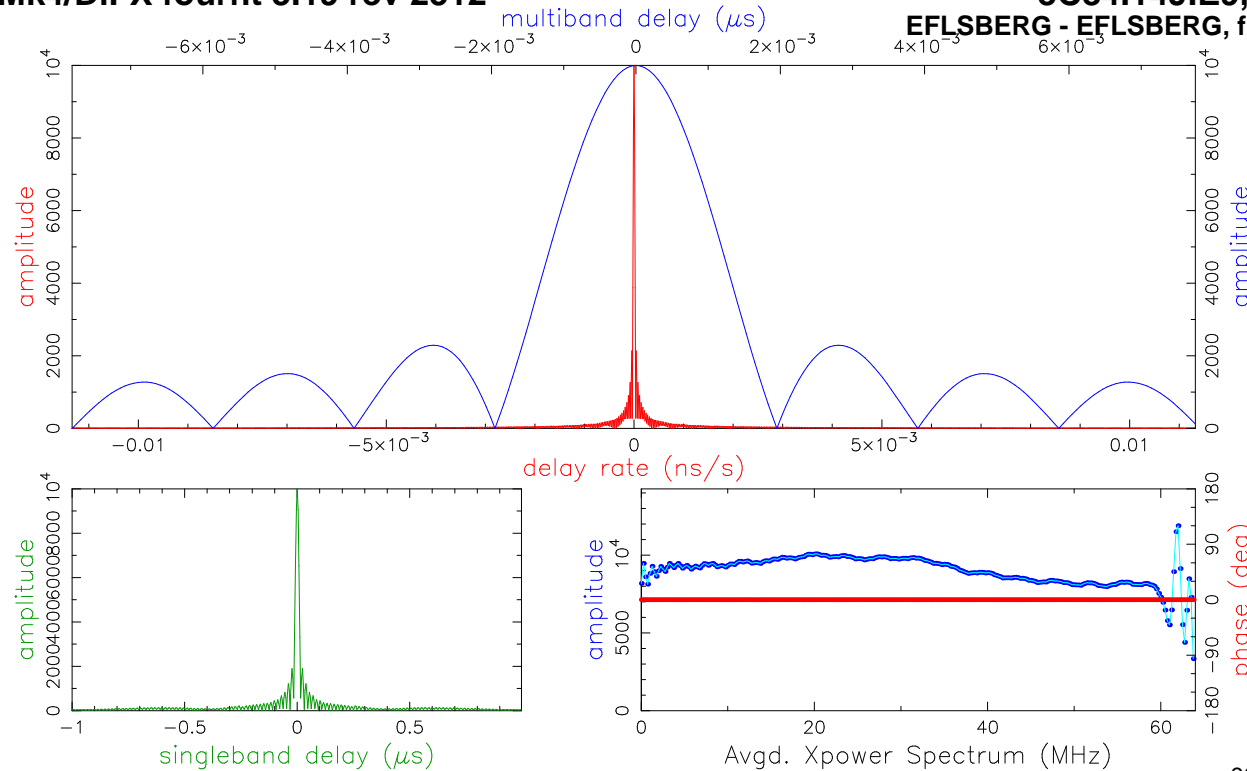


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-0.0	0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	Phase	-0.0
	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Sbd box	257.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:B	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	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 2.1E-09  
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.7E-08  
 Phase delay (usec) -8.69684978872E-20 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -8.69685E-20 +/- 7.1E-12  
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 3.4E-14  
 Total phase (deg) -0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) -0.0 +/- 0.0

RMS Theor. Amplitude 10000.000 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.0 0.0 Search (2048X32) 10000.000 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. 10000.000 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

B: az 149.3 el 79.9 pa -23.0 B: az 149.3 el 79.9 pa -23.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/BB..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/BB.W.11.14JIE9

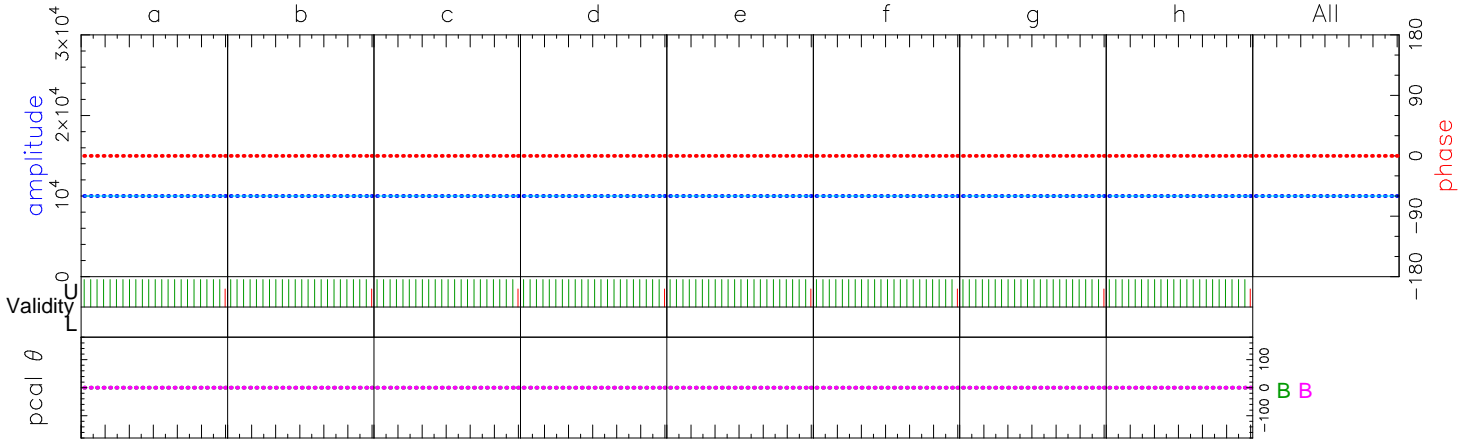


Fringe quality 9

SNR 518538.5  
Int time 359.556  
Amp 10000.000  
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. f201b  
Yr:day 16383  
Start 2020:115  
Stop 2020:115:185931  
FRT 121800.00  
2020:115:190112  
2020:014:135814  
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

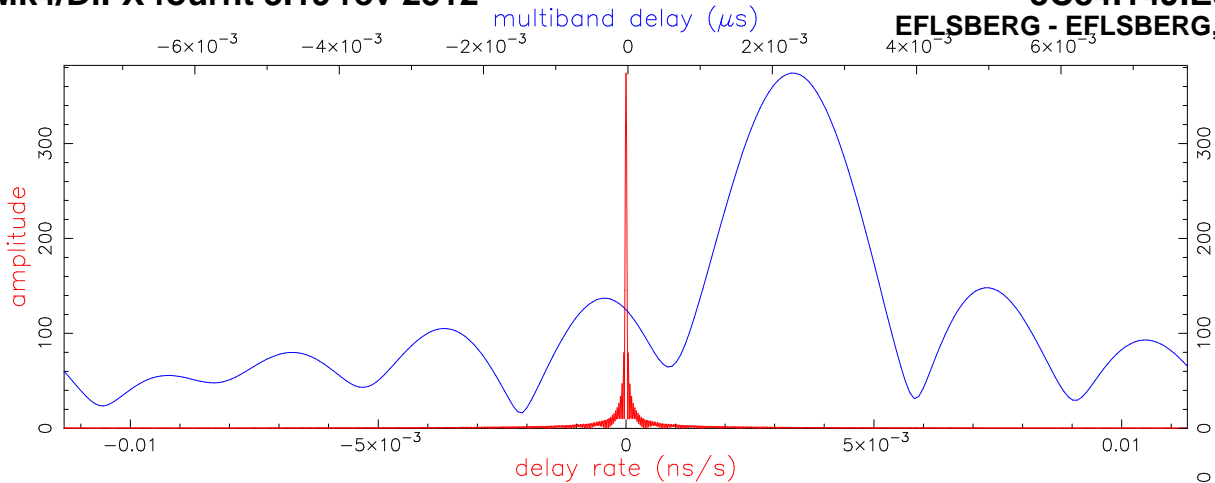
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



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

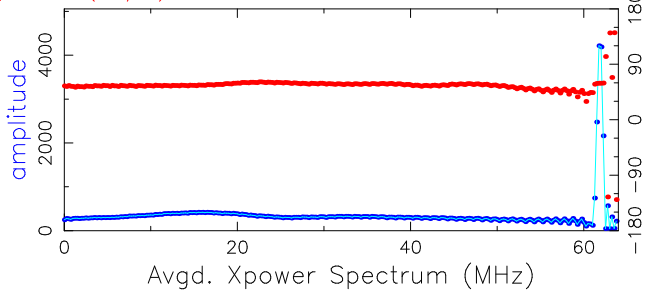
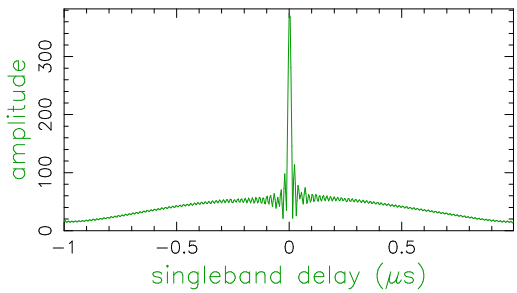
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.1E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.7E-08
Phase delay (usec)	3.08635079638E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.08635E-20	+/-	7.1E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.4E-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 0.0 RMS Theor. Amplitude 10000.000 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 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 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 B: az 149.3 el 79.9 pa -23.0 B: az 149.3 el 79.9 pa -23.0 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/BB..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/BB.W.1.14JIE9 simultaneous interpolator



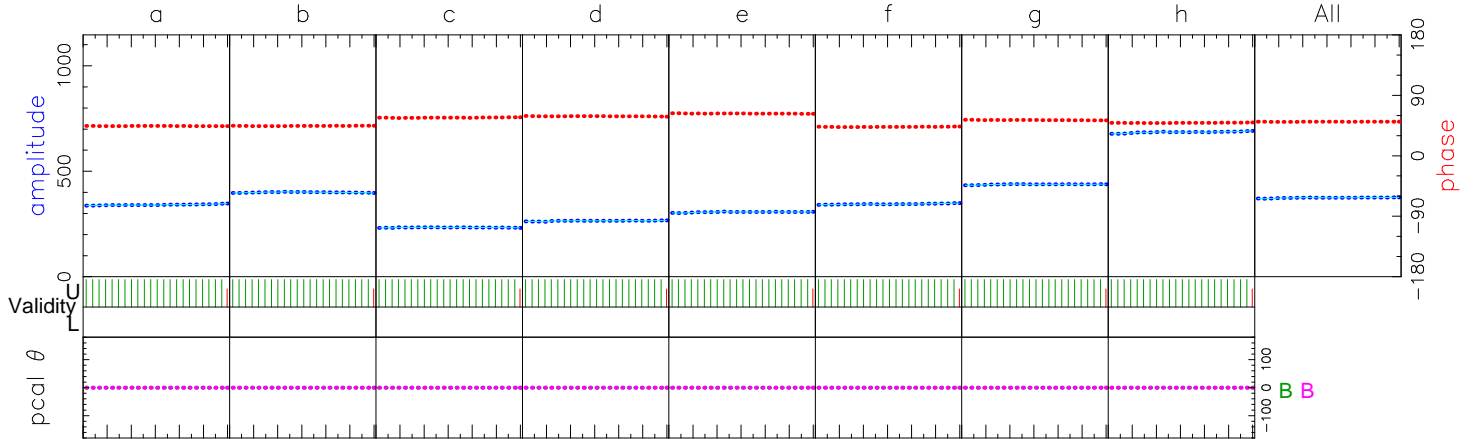
Fringe quality 8

SNR 19824.2  
Int time 359.556  
Amp 382.308  
Phase 50.6  
PFD 0.0e+00  
Delays (us)  
SBD 0.001677  
MBD 0.002268  
Fringe rate (Hz)  
0.000000  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. f201b  
Exper # 16383  
Yr:day 2020:115  
Start 121500.00  
Stop 122059.94  
FRT 121800.00  
Corr/FF/build  
2020:115:185931  
2020:115:190119  
2020:014:135814  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

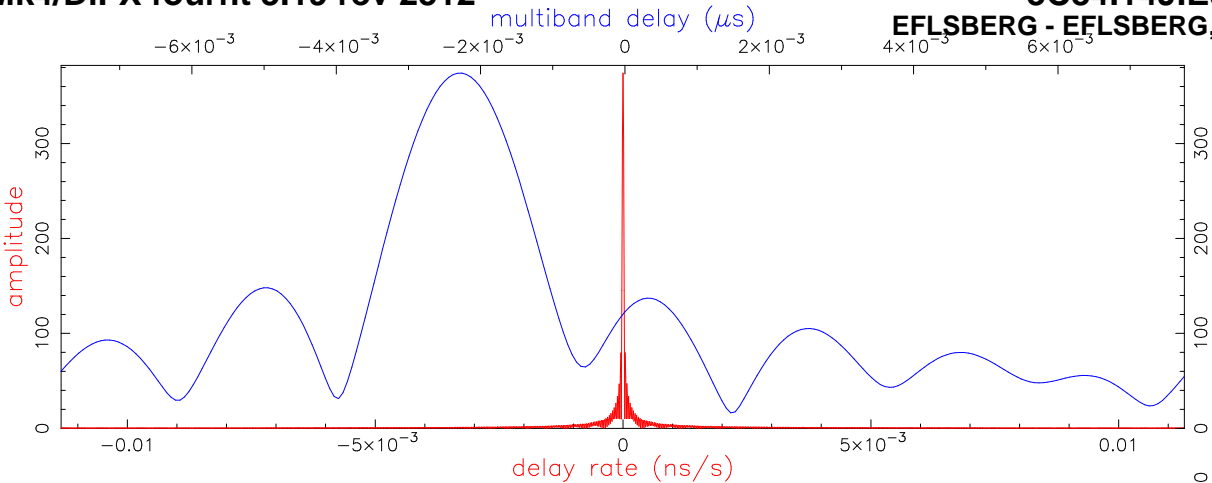
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



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

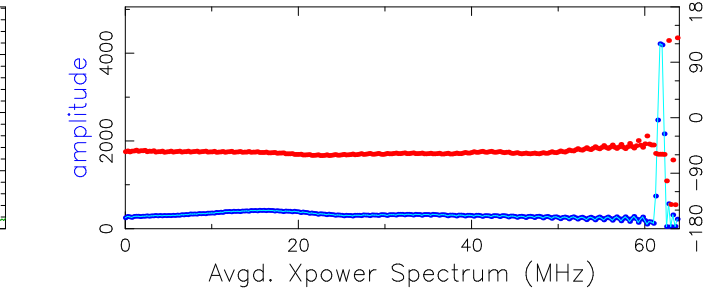
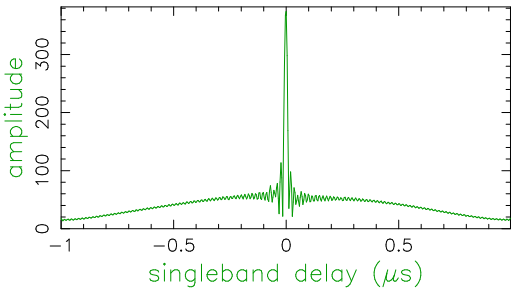
Group delay (usec)(sbd)	2.267968750000E-03	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	2.26797E-03	+/-	5.5E-08
Sband delay (usec)	1.676750000000E-03	Apriori clock (usec)	0.000000000000E+00	Resid sbdelay (usec)	1.67675E-03	+/-	4.3E-07
Phase delay (usec)	1.63286634006E-06	Apriori clockrate (us/s)	0.000000000000E+00	Resid phdelay (usec)	1.63287E-06	+/-	1.9E-10
Delay rate (us/s)	5.66846095667E-12	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	5.66846E-12	+/-	9.0E-13
Total phase (deg)	50.6	Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	50.6	+/-	0.0

ph/seg (deg)	0.1	RMS	0.1	Theor.	0.0	Amplitude	382.308 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	2.1		2.1		0.0	Search (2048X32)	369.763	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	8.1		8.1		0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	34.6		34.6		0.0	Inc. seg. avg.	374.256	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Inc. frq. avg.	376.641	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00



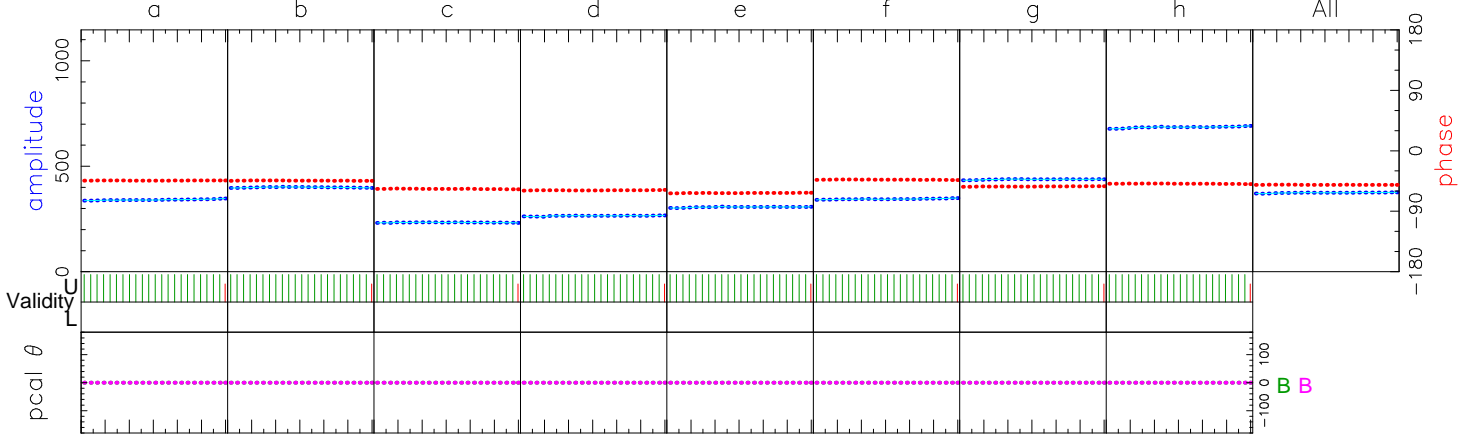
Fringe quality 8

SNR 19824.2  
Int time 359.556  
Amp 382.308  
Phase -50.6  
PFD 0.0e+00  
Delays (us)  
SBD -0.001677  
MBD -0.002268  
Fringe rate (Hz)  
-0.000000  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



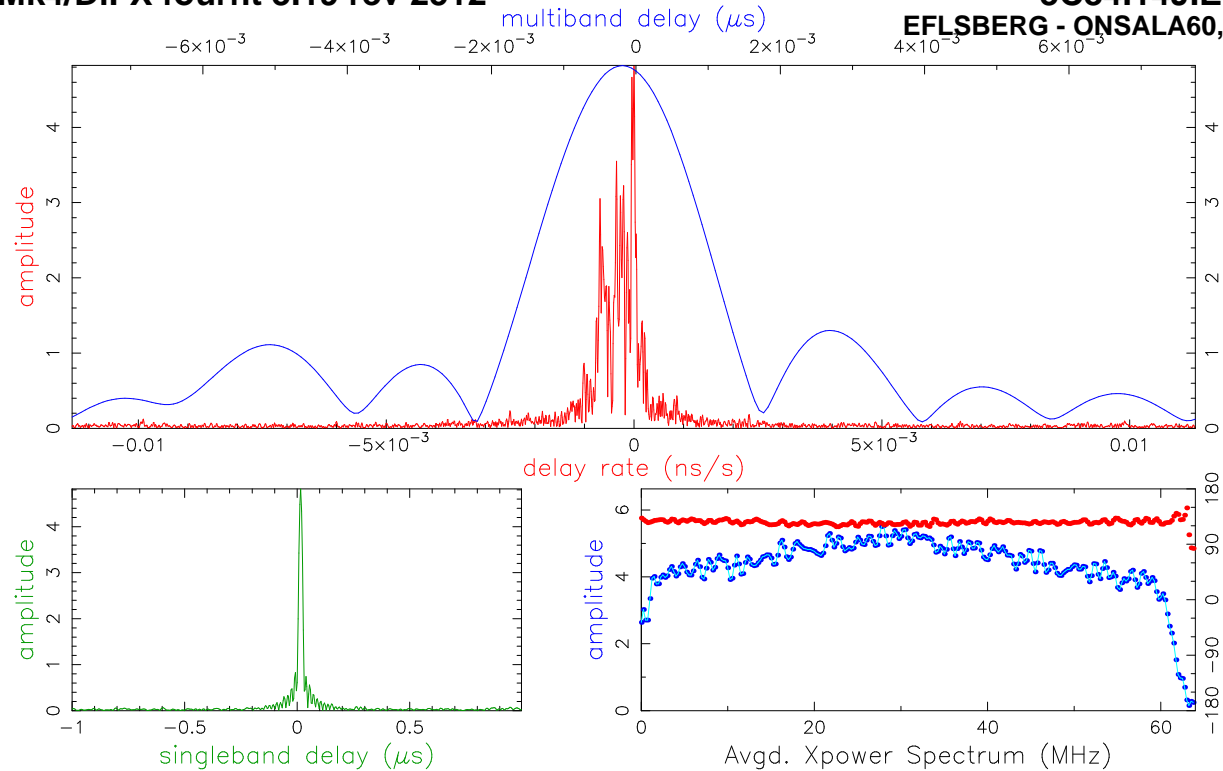
Exp. f201b  
Exper # 16383  
Yr:day 2020:115  
Start 121500.00  
Stop 122059.94  
FRT 121800.00  
Corr/FF/build  
2020:115:185931  
2020:115:190122  
2020:014:135814  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-44.3	-44.4	-56.7	-58.8	-62.9	-43.0	-53.1	-49.0	Phase	-50.6
	341.1	399.9	233.4	264.9	306.4	344.7	437.7	685.1	Ampl.	376.6
	256.0	256.7	257.5	256.1	257.1	257.1	256.5	256.3	Sbd box	256.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:B	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	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.26796875000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-2.26797E-03	+/- 5.5E-08
Sband delay (usec)	-1.67675000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-1.67675E-03	+/- 4.3E-07
Phase delay (usec)	-1.63286634001E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-1.63287E-06	+/- 1.9E-10
Delay rate (us/s)	-5.66846095667E-12		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-5.66846E-12	+/- 9.0E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-50.6	+/- 0.0

	RMS	Theor.	Amplitude	382.308 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	0.1	0.0	Search (2048X32)	369.763	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	2.1	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	8.1	0.0	Inc. seg. avg.	374.256	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	34.6	0.0	Inc. frq. avg.	376.641	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

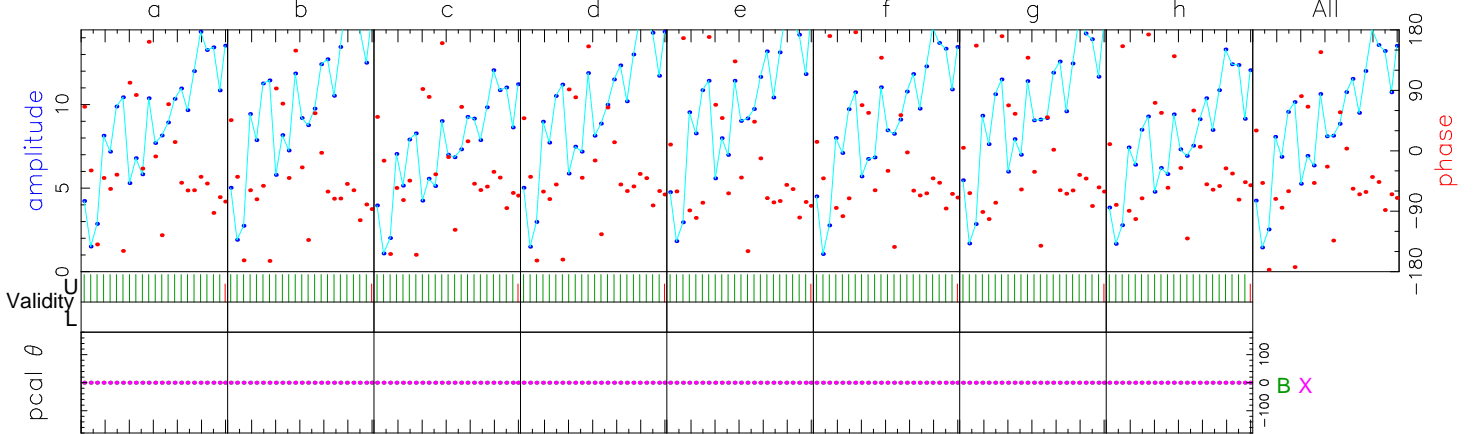


Fringe quality 5

SNR 250.1  
Int time 359.527  
Amp 4.824  
Phase -55.9  
PFD 0.0e+00  
Delays (us)  
SBD 0.015283  
MBD -0.000199  
Fringe rate (Hz) 0.000013  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

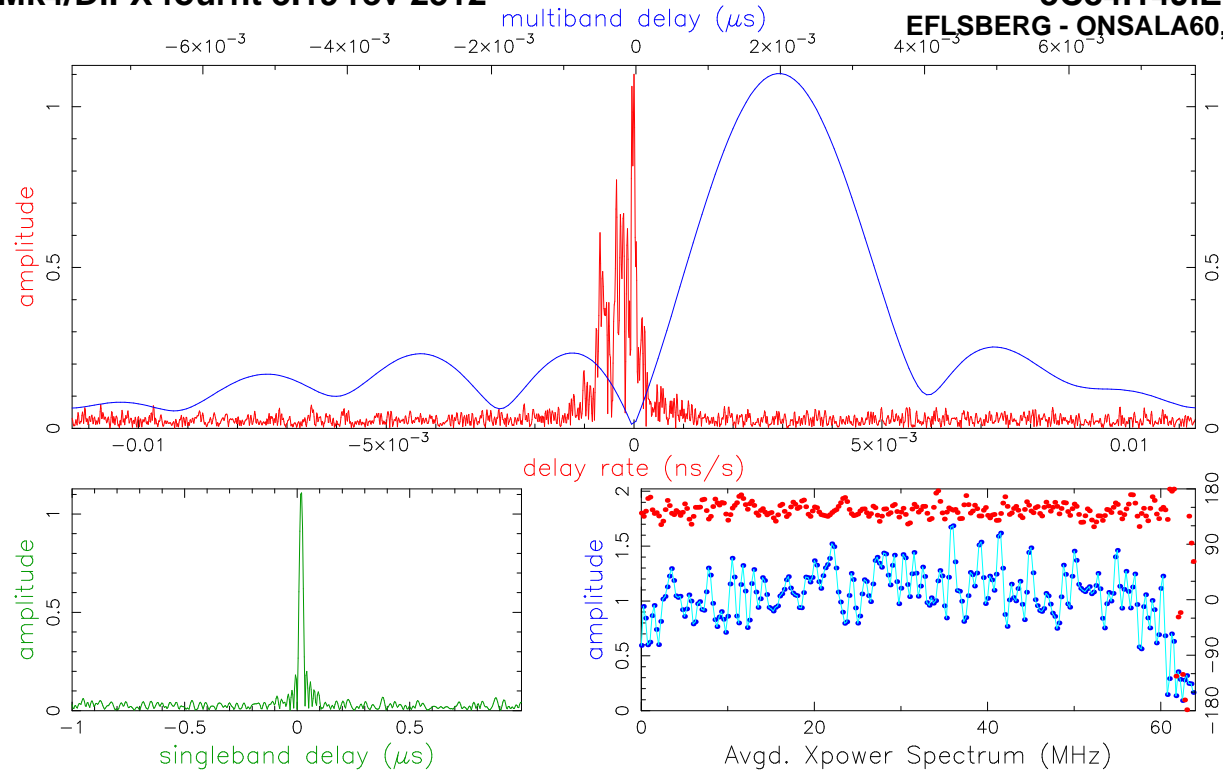
Exp. f201b  
Exper # 16383  
Yr:day 2020:115  
Start 121500.00  
Stop 122059.94  
FRT 121800.00  
Corr/FF/build  
2020:115:185931  
2020:115:190116  
2020:014:135814  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-51.9	-63.1	-47.8	-49.6	-69.3	-58.5	-54.7	-47.8	Phase	-55.9
	4.7	5.5	4.0	5.1	5.4	4.9	5.1	4.3	Ampl.	4.9
	260.4	260.8	261.3	260.7	260.8	261.3	261.1	260.5	Sbd box	260.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.67291544208E+02		Apriori delay (usec)		4.67276118271E+02		Resid mbdelay (usec)		-1.99063E-04	+/- 4.3E-06
Sband delay (usec)	4.67291401771E+02		Apriori clock (usec)		-2.7601414E+01		Resid sbdelay (usec)		1.52835E-02	+/- 3.4E-05
Phase delay (usec)	4.67276116468E+02		Apriori clockrate (us/s)		-2.2909999E-06		Resid phdelay (usec)		-1.80282E-06	+/- 1.5E-08
Delay rate (us/s)	6.66244544376E-02		Apriori rate (us/s)		6.66244542888E-02		Resid rate (us/s)		1.48797E-10	+/- 7.1E-11
Total phase (deg)	242.1		Apriori accel (us/s/s)		-7.92188642572E-06		Resid phase (deg)		-55.9	+/- 0.5

ph/seg (deg) 72.9 1.1 Search (2048X32) 4.750 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 110.1 1.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 8.4 0.6 Inc. seg. avg. 8.907 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 10.4 1.1 Inc. frq. avg. 4.860 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 149.3 el 79.9 pa -23.0 X: az 174.9 el 74.1 pa -2.6 u,v (fr/asec) -522.627 -1015.342 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/BX..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/BX.W.13.14JIE9

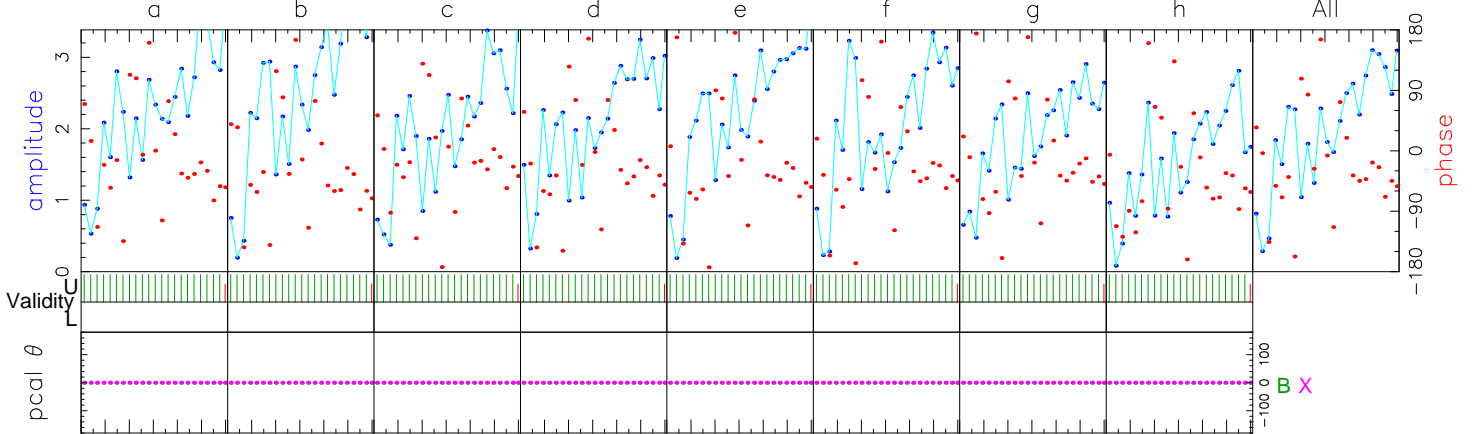


Fringe quality 4

SNR 58.5  
Int time 359.527  
Amp 1.128  
Phase -35.3  
PFD 0.0e+00  
Delays (us)  
SBD 0.017708  
MBD 0.002057  
Fringe rate (Hz)  
-0.000039  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

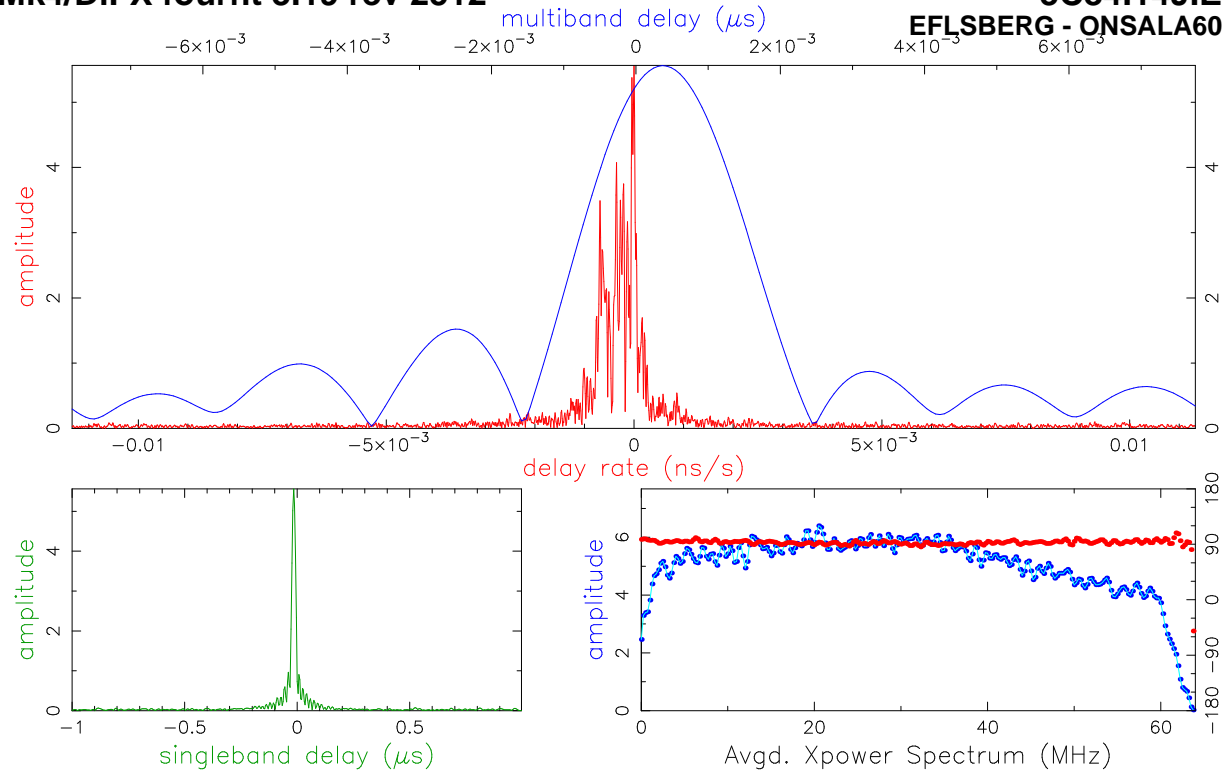
Exp. f201b  
Exper # 16383  
Yr:day 2020:115  
Start 121500.00  
Stop 122059.94  
FRT 121800.00  
Corr/FF/build  
2020:115:185931  
2020:115:190119  
2020:014:135814  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

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



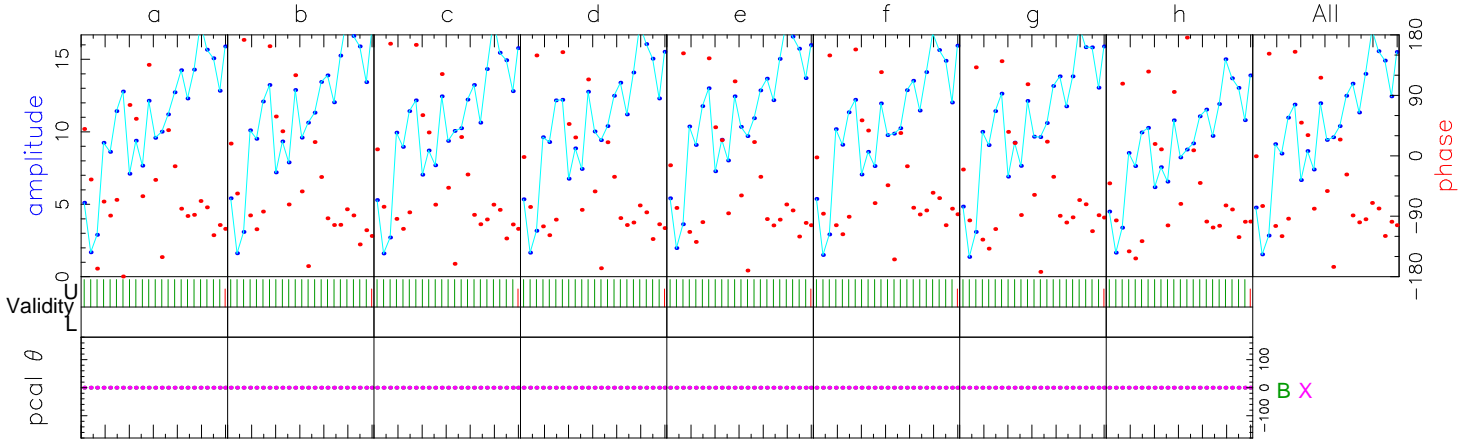
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-29.7	-47.5	-14.2	-32.1	-39.7	-34.0	-35.8	-54.7	Phase	-35.3
	1.2	1.4	1.2	1.1	1.2	1.1	1.0	0.7	Ampl.	1.1
	261.6	261.3	261.5	261.5	261.5	261.7	261.5	261.9	Sbd box	261.5
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.67293800677E+02		Apriori delay (usec)		4.67276118271E+02		Resid mbdelay (usec)		2.05741E-03	+/- 1.9E-05
Sband delay (usec)	4.67293826521E+02		Apriori clock (usec)		-2.7601414E+01		Resid sbdelay (usec)		1.77082E-02	+/- 1.5E-04
Phase delay (usec)	4.67276117134E+02		Apriori clockrate (us/s)		-2.2909999E-06		Resid phdelay (usec)		-1.13673E-06	+/- 6.3E-08
Delay rate (us/s)	6.66244538382E-02		Apriori rate (us/s)		6.66244542888E-02		Resid rate (us/s)		-4.50643E-10	+/- 3.0E-10
Total phase (deg)			Apriori accel (us/s/s)		-7.92188642572E-06		Resid phase (deg)		-35.3	+/- 2.0

ph/seg (deg) 71.5 4.7 Search (2048X32) 1.102 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 103.6 8.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 13.1 2.8 Inc. seg. avg. 1.982 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 16.1 4.8 Inc. frq. avg. 1.120 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 149.3 el 79.9 pa -23.0 X: az 174.9 el 74.1 pa -2.6 u,v (fr/asec) -522.627 -1015.342 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/BX..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/BX.W.23.14JIE9



Fringe quality 5  
 SNR 288.5  
 Int time 359.527  
 Amp 5.565  
 Phase -87.9  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.015284  
 MBD 0.000381  
 Fringe rate (Hz) 0.000057  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512  
 Exp. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190113  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

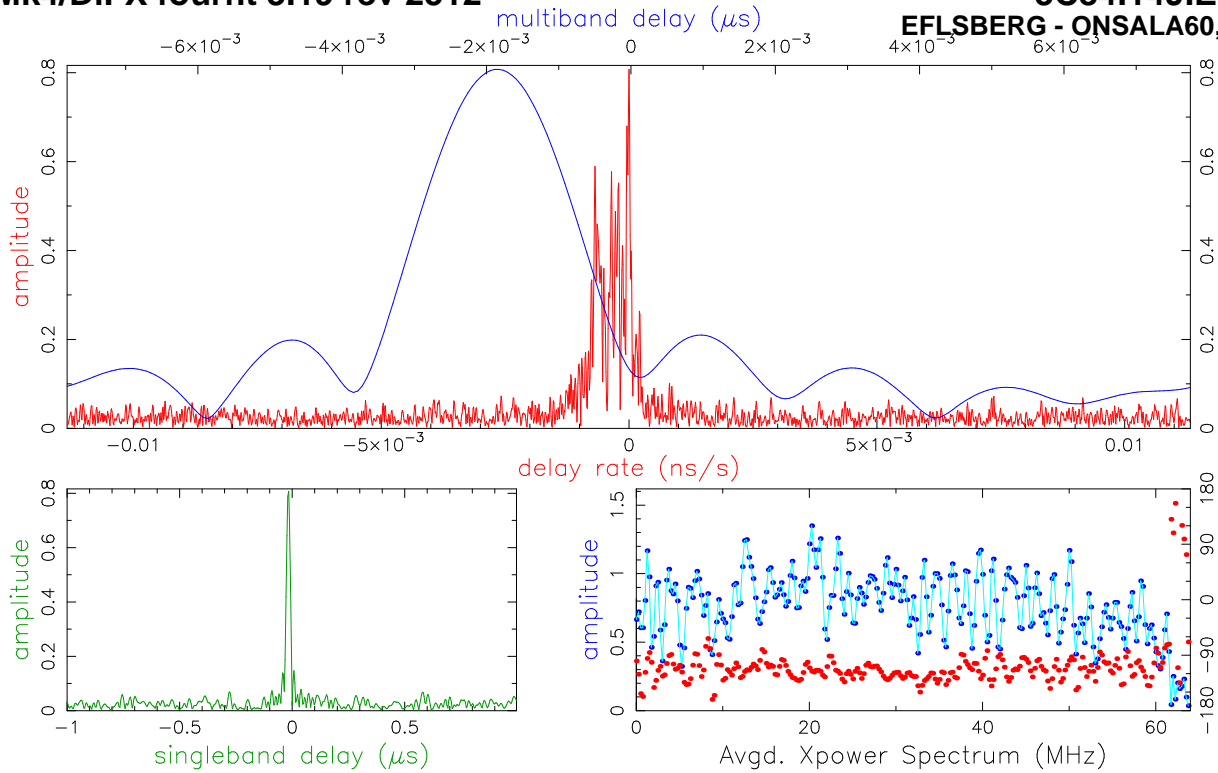
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-80.5	-94.4	-88.8	-91.4	-91.0	-75.1	-86.4	-96.0	Phase	-87.9
	5.6	5.9	5.7	5.7	5.9	5.6	4.7	4.7	Ampl.	5.6
	253.2	252.7	253.4	252.9	253.3	253.1	253.1	252.6	Sbd box	253.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.67260874021E+02		Apriori delay (usec)		4.67276118271E+02		Resid mbdelay (usec)		3.80750E-04	+/- 3.8E-06
Sband delay (usec)	4.67260834521E+02		Apriori clock (usec)		-2.7601414E+01		Resid sbdelay (usec)		-1.52838E-02	+/- 3.0E-05
Phase delay (usec)	4.67276115438E+02		Apriori clockrate (us/s)		-2.2909999E-06		Resid phdelay (usec)		-2.83321E-06	+/- 1.3E-08
Delay rate (us/s)	6.66244549541E-02		Apriori rate (us/s)		6.66244542888E-02		Resid rate (us/s)		6.65336E-10	+/- 6.2E-11
Total phase (deg)	210.2		Apriori accel (us/s/s)		-7.92188642572E-06		Resid phase (deg)		-87.9	+/- 0.4

ph/seg (deg) RMS Theor. Amplitude 5.565 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 72.7 1.0 Search (2048X32) 5.529 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 111.3 1.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 7.7 0.6 Inc. seg. avg. 10.377 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 6.4 1.0 Inc. frq. avg. 5.598 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

B: az 149.3 el 79.9 pa -23.0 X: az 174.9 el 74.1 pa -2.6 u,v (fr/asec) -522.627 -1015.342 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/BX..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/BX.W.3.14JIE9

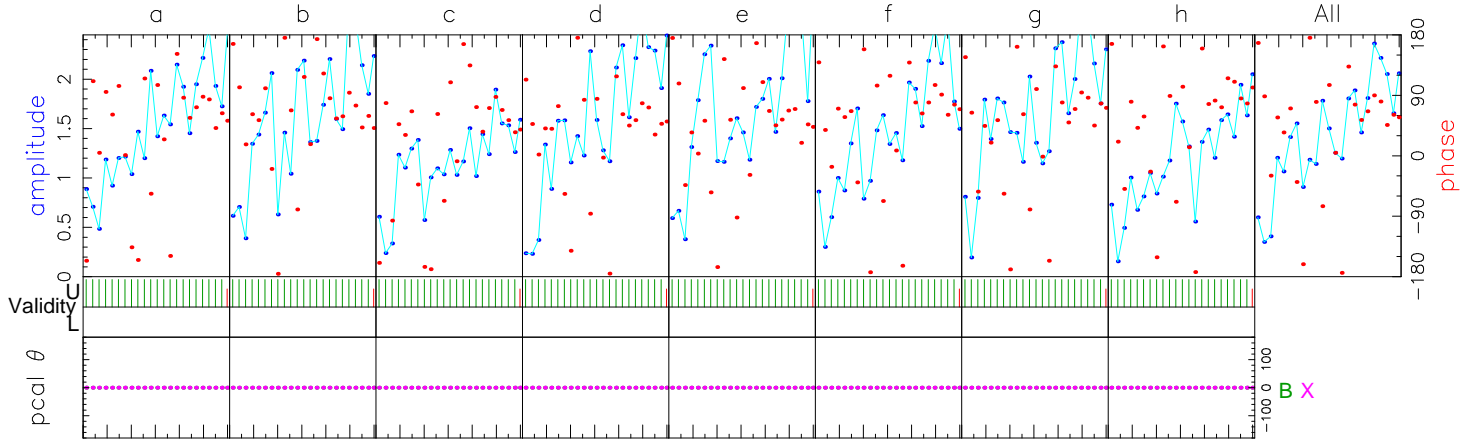


Fringe quality 6

SNR 42.3  
Int time 359.527  
Amp 0.816  
Phase 72.7  
PFD 0.0e+00  
Delays (us)  
SBD -0.017048  
MBD -0.001888  
Fringe rate (Hz) 0.000093  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

Exp. f201b  
Exper # 16383  
Yr:day 2020:115  
Start 121500.00  
Stop 122059.94  
FRT 121800.00  
Corr/FF/build  
2020:115:185931  
2020:115:190122  
2020:014:135814  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

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

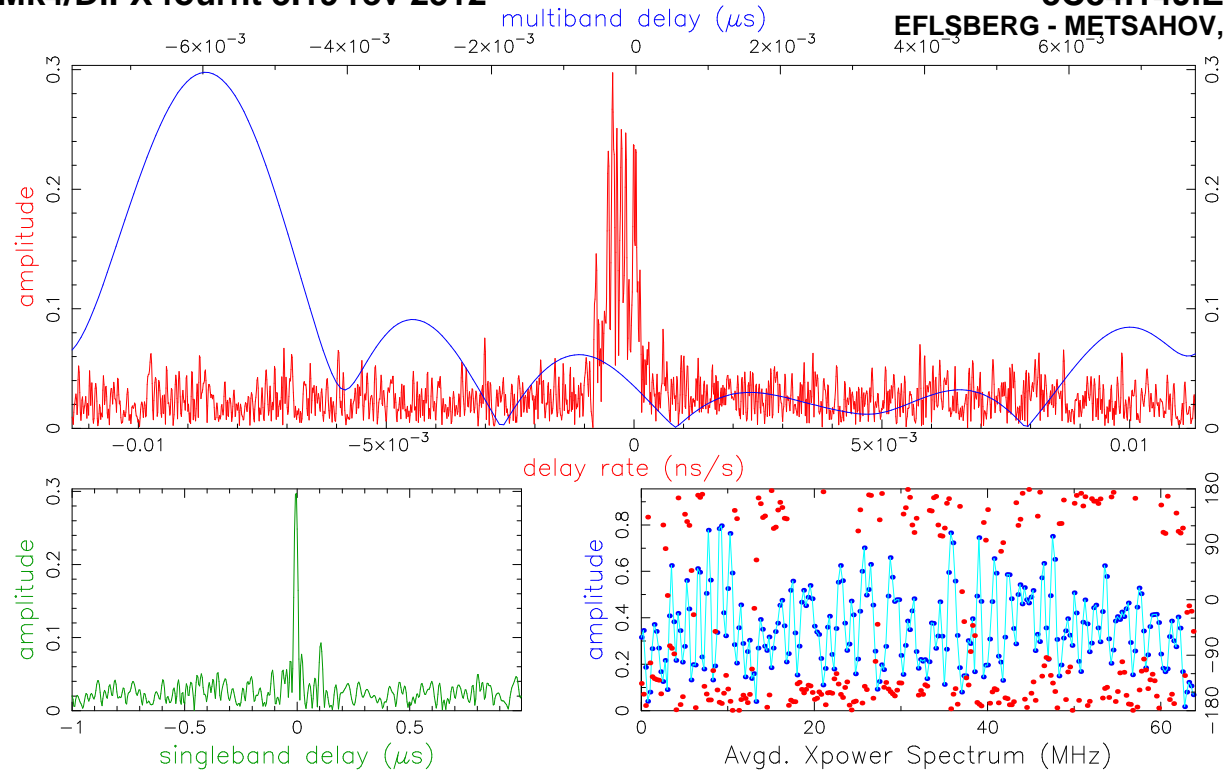


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	82.8	75.7	64.8	60.7	53.9	83.2	74.2	90.3	Phase	72.7
	0.8	1.0	0.6	0.9	0.9	0.9	0.9	0.7	Ampl.	0.8
	252.6	252.1	253.3	252.5	252.9	252.9	253.0	252.1	Sbd box	252.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.67258605458E+02		Apriori delay (usec)		4.67276118271E+02		Resid mbdelay (usec)		-1.88781E-03	+/- 2.6E-05
Sband delay (usec)	4.67259070771E+02		Apriori clock (usec)		-2.7601414E+01		Resid sbdelay (usec)		-1.70475E-02	+/- 2.0E-04
Phase delay (usec)	4.67276120616E+02		Apriori clockrate (us/s)		-2.2909999E-06		Resid phdelay (usec)		2.34533E-06	+/- 8.7E-08
Delay rate (us/s)	6.6624453637E-02		Apriori rate (us/s)		6.66244542888E-02		Resid rate (us/s)		1.07488E-09	+/- 4.2E-10
Total phase (deg)			Apriori accel (us/s/s)		-7.92188642572E-06		Resid phase (deg)		72.7	+/- 2.7

ph/seg (deg) 68.5 6.5 Theor. Amplitude 0.816 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 98.4 11.3 Search (2048X32) 0.803 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 13.5 3.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 14.8 6.7 Inc. seg. avg. 1.411 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

B: az 149.3 el 79.9 pa -23.0 X: az 174.9 el 74.1 pa -2.6 u,v (fr/asec) -522.627 -1015.342 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/BX..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/BX.W.33.14JIE9



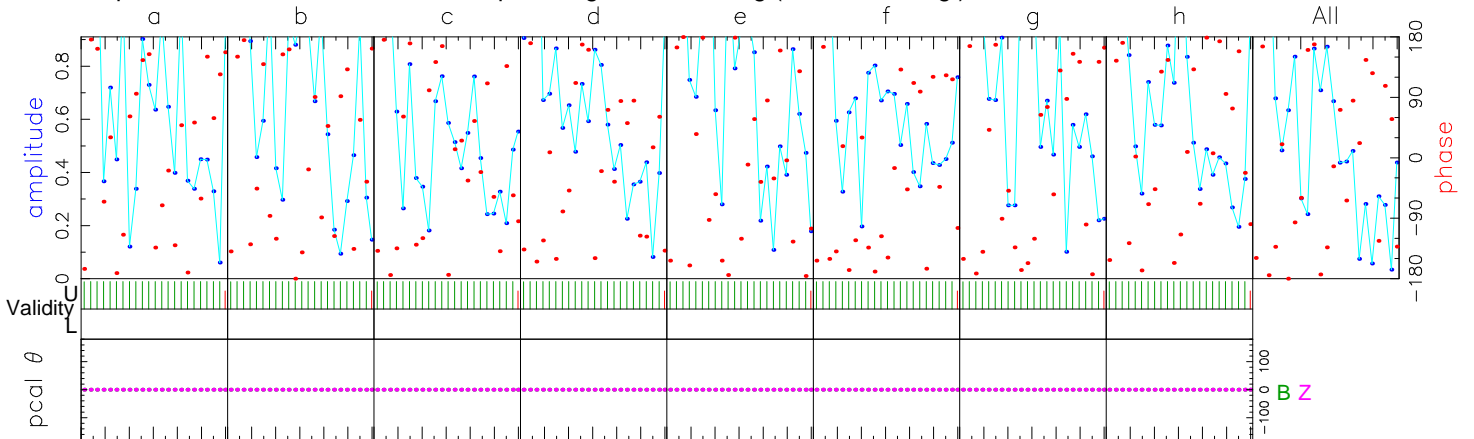


Fringe quality 9

SNR 15.7  
 Int time 358.951  
 Amp 0.304  
 Phase -163.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.005742  
 MBD -0.006011  
 Fringe rate (Hz)  
 -0.037017  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

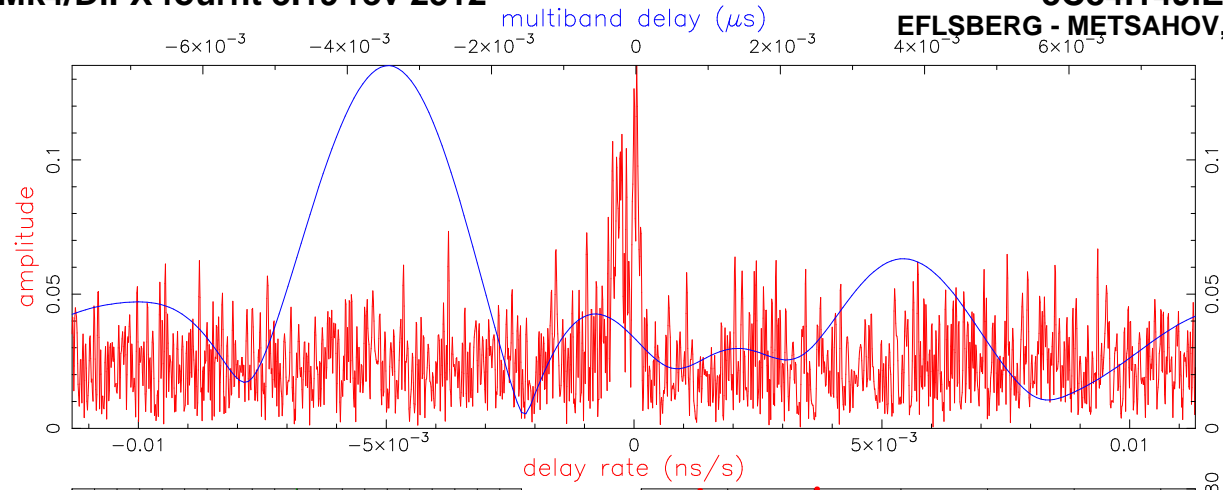
Exp. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190116  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

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

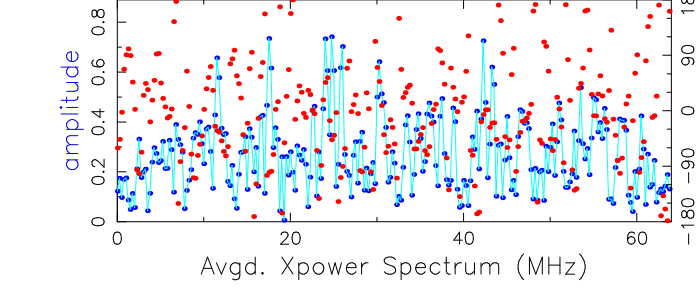
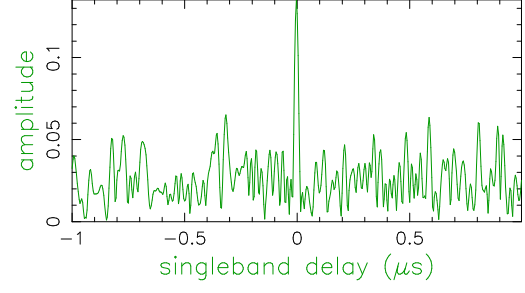


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	179.7	-159.9	-166.3	-154.0	-159.2	-160.3	-168.2	-156.9	Phase	-163.2
	0.2	0.3	0.2	0.2	0.3	0.4	0.5	0.2	Ampl.	0.3
	256.4	255.6	283.0	254.6	255.9	255.9	255.8	254.0	Sbd box	255.5
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	9.79451847776E+02		Apriori delay (usec)		9.79457858573E+02		Resid mbdelay (usec)		-6.01080E-03	+/- 6.9E-05
Sband delay (usec)	9.79452116823E+02		Apriori clock (usec)		1.3206373E+01		Resid sbdelay (usec)		-5.74175E-03	+/- 5.5E-04
Phase delay (usec)	9.79457853310E+02		Apriori clockrate (us/s)		-1.7789999E-06		Resid phdelay (usec)		-5.26234E-06	+/- 2.4E-07
Delay rate (us/s)	1.92299886176E-01		Apriori rate (us/s)		1.92300315912E-01		Resid rate (us/s)		-4.29736E-07	+/- 1.1E-09
Total phase (deg)	174.3		Apriori accel (us/s/s)		-1.23449952164E-05		Resid phase (deg)		-163.2	+/- 7.3

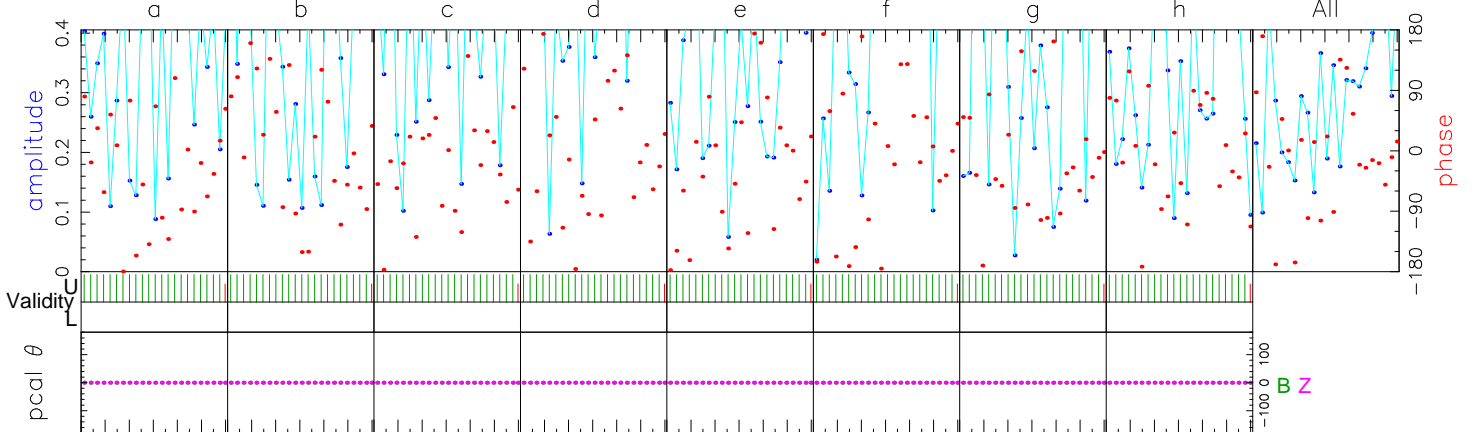
ph/seg (deg) 89.4 17.5 Search (2048X32) 0.297 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 159.2 30.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 9.0 10.3 Inc. seg. avg. 0.554 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 28.5 18.0 Inc. frq. avg. 0.295 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 149.3 el 79.9 pa -23.0 Z: az 204.0 el 70.3 pa 17.3 u,v (fr/asec) -1491.939 -1483.864 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/BZ..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/BZ.W.14.14JIE9



Fringe quality 0  
 SNR 7.0  
 Int time 358.951  
 Amp 0.135  
 Phase -17.2  
 PFD 7.5e-04  
 Delays (us)  
 SBD -0.003555  
 MBD -0.003423  
 Fringe rate (Hz)  
 0.004542  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190119  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"



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



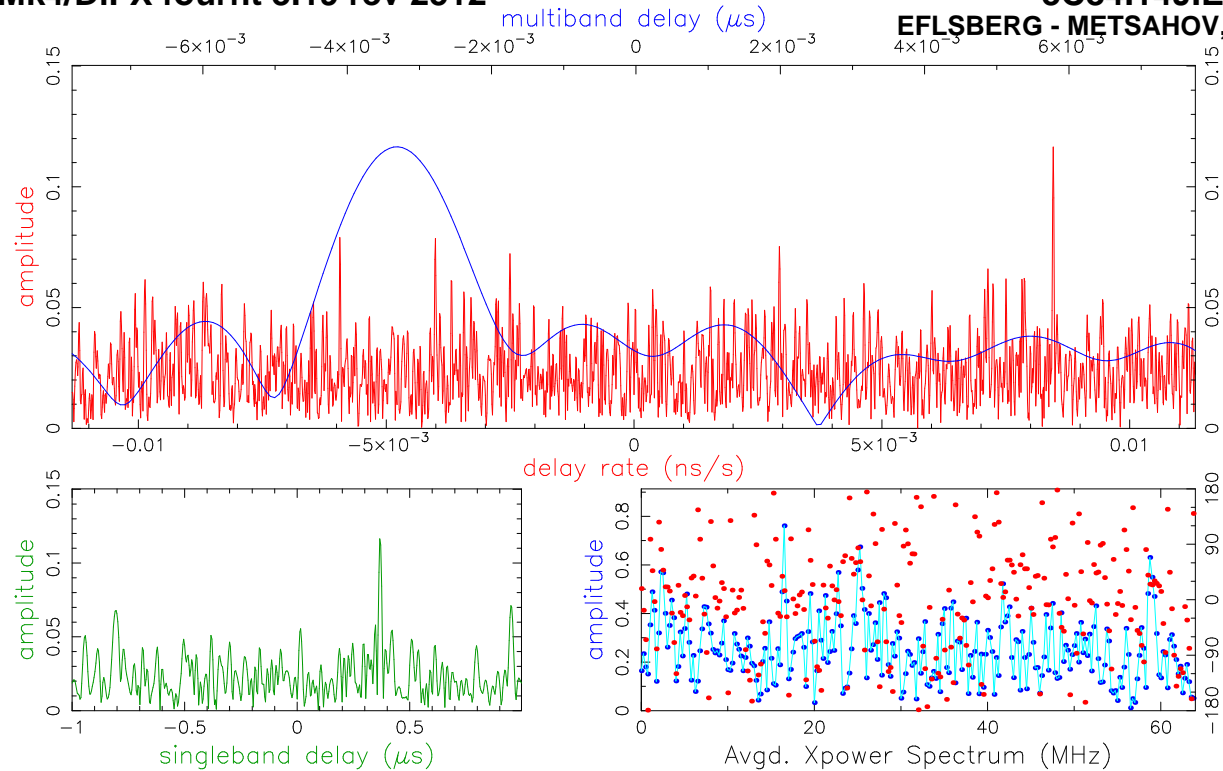
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All		
	-37.4	19.1	-17.0	-18.3	-28.1	28.2	-41.6	-11.4	Phase	-17.2		
	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	Ampl.	0.1		
	209.8	66.0	255.5	484.6	286.8	161.6	256.8	364.8	Sbd box	256.1		
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used			
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase			
B:Z	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			
Z	1000	1000	1000	1000	1000	1000	1000	1000				
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids			
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks			
									Chan ids			
									Tracks			
Group delay (usec)(sbd)	9.79454435085E+02		Apriori delay (usec)		9.79457858573E+02		Resid mbdelay (usec)		-3.42349E-03	+/- 1.5E-04		
Sband delay (usec)	9.79454303073E+02		Apriori clock (usec)		1.3206373E+01		Resid sbdelay (usec)		-3.55550E-03	+/- 1.2E-03		
Phase delay (usec)	9.79457858019E+02		Apriori clockrate (us/s)		-1.7789999E-06		Resid phdelay (usec)		-5.53357E-07	+/- 5.3E-07		
Delay rate (us/s)	1.92300368637E-01		Apriori rate (us/s)		1.92300315912E-01		Resid rate (us/s)		5.27252E-08	+/- 2.5E-09		
Total phase (deg)	320.3		Apriori accel (us/s/s)		-1.23449952164E-05		Resid phase (deg)		-17.2	+/- 16.4		
	RMS	Theor.	Amplitude	0.135 +/- 0.019		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
ph/seg (deg)	85.1	39.2	Search (2048X32)	0.133		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000		
amp/seg (%)	145.4	68.5	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	27.5	23.1	Inc. seg. avg.	0.239		Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011		
amp/frq (%)	45.6	40.4	Inc. frq. avg.	0.135		Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 149.3 el 79.9 pa -23.0 Z: az 204.0 el 70.3 pa 17.3 u,v (fr/asec) -1491.939 -1483.864 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/BZ..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/BZ.W.24.14JIE9

Mk4/DiFX fourfit 3.19 rev 2512

3C84.14JIE9, No0002, BZ

EFLSBERG - METSAHOV, fgroup W, pol RL

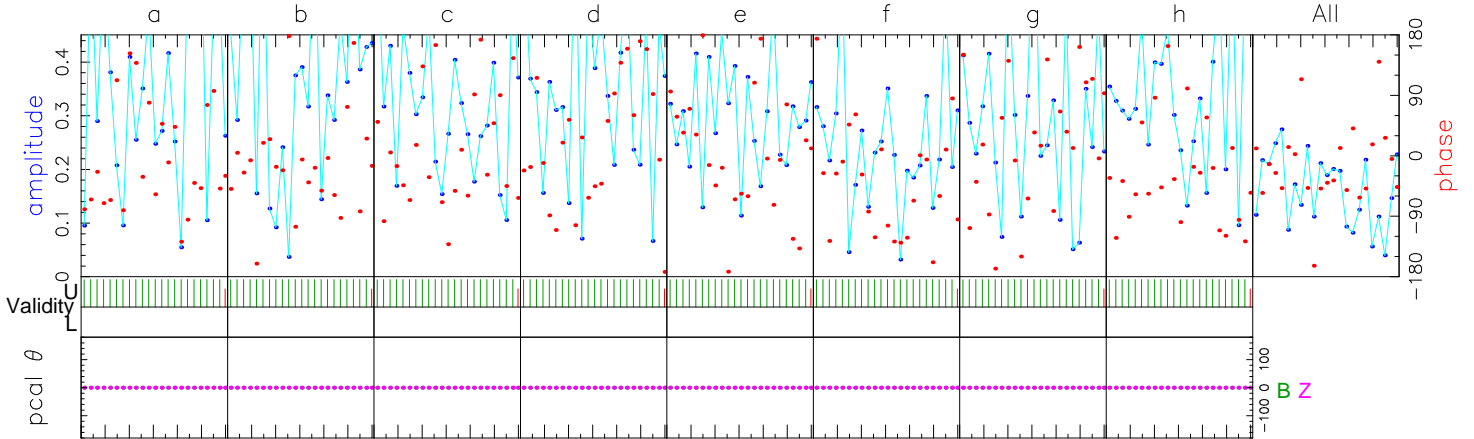


Fringe quality 0

SNR 6.1  
 Int time 358.951  
 Amp 0.150  
 Phase -28.2  
 PFD 2.2e-01  
 Delays (us)  
 SBD 0.368533  
 MBD -0.003271  
 Fringe rate (Hz)  
 0.729385  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

Exp. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190123  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-37.3	-23.1	-16.1	-39.2	-11.8	-42.4	36.1	-51.2	Phase	-28.2
	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
	304.7	351.2	361.2	398.5	41.7	60.9	49.9	347.3	Sbd box	351.3
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	9.79829587286E+02		Apriori delay (usec)		9.79457858573E+02		Resid mbdelay (usec)		-3.27129E-03	+/- 1.8E-04
Sband delay (usec)	9.79826391573E+02		Apriori clock (usec)		1.3206373E+01		Resid sbdelay (usec)		3.68533E-01	+/- 1.4E-03
Phase delay (usec)	9.79457857664E+02		Apriori clockrate (us/s)		-1.7789999E-06		Resid phdelay (usec)		-9.09109E-07	+/- 6.0E-07
Delay rate (us/s)	1.92308783351E-01		Apriori rate (us/s)		1.92300315912E-01		Resid rate (us/s)		8.46744E-06	+/- 2.9E-09
Total phase (deg)	309.3		Apriori accel (us/s/s)		-1.23449952164E-05		Resid phase (deg)		-28.2	+/- 18.7

	RMS	Theor.	Amplitude	0.150 +/- 0.025	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	62.1	44.9	Search (2048X32)	0.115	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	66.0	78.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	30.3	26.5	Inc. seg. avg.	0.156	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	43.5	46.2	Inc. frq. avg.	0.143	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

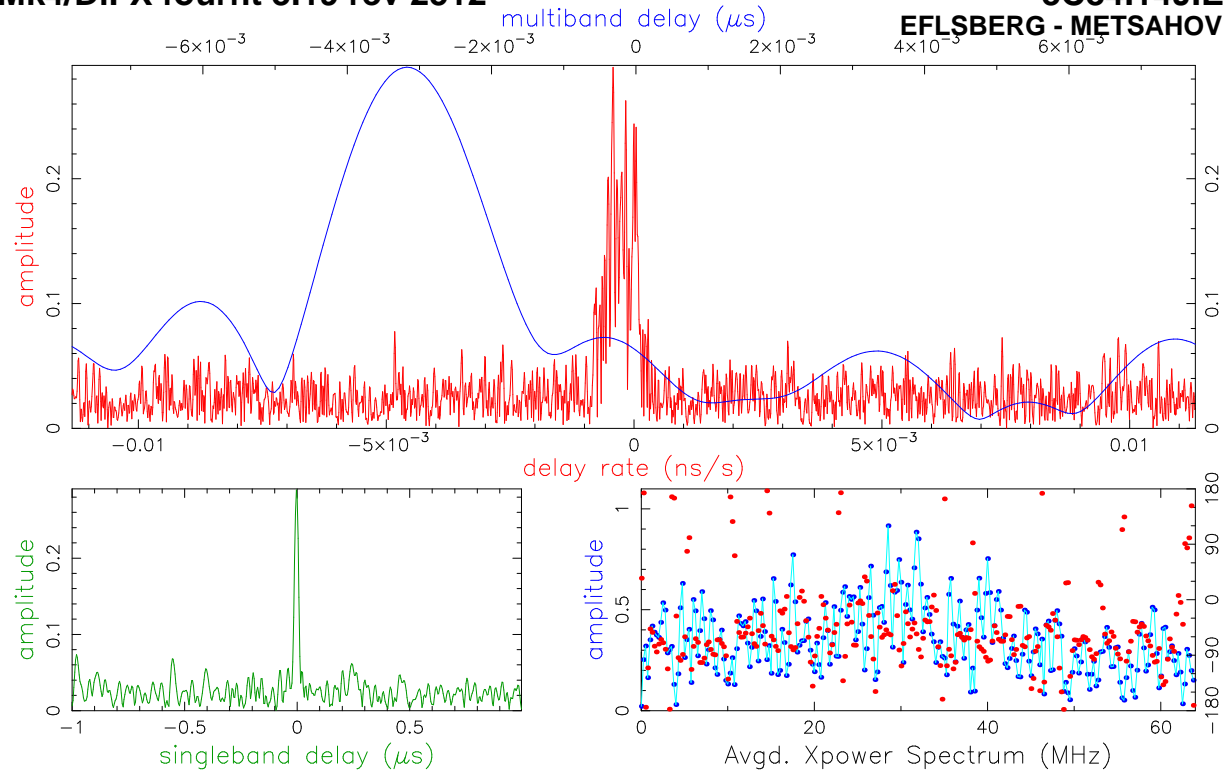
B: az 149.3 el 79.9 pa -23.0 Z: az 204.0 el 70.3 pa 17.3 u,v (fr/asec) -1491.939 -1483.864 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/BZ..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/BZ.W.35.14JIE9

Mk4/DiFX fourfit 3.19 rev 2512

3C84.14JIE9, No0002, BZ

EFLSBERG - METSAHOV, fgroup W, pol LL

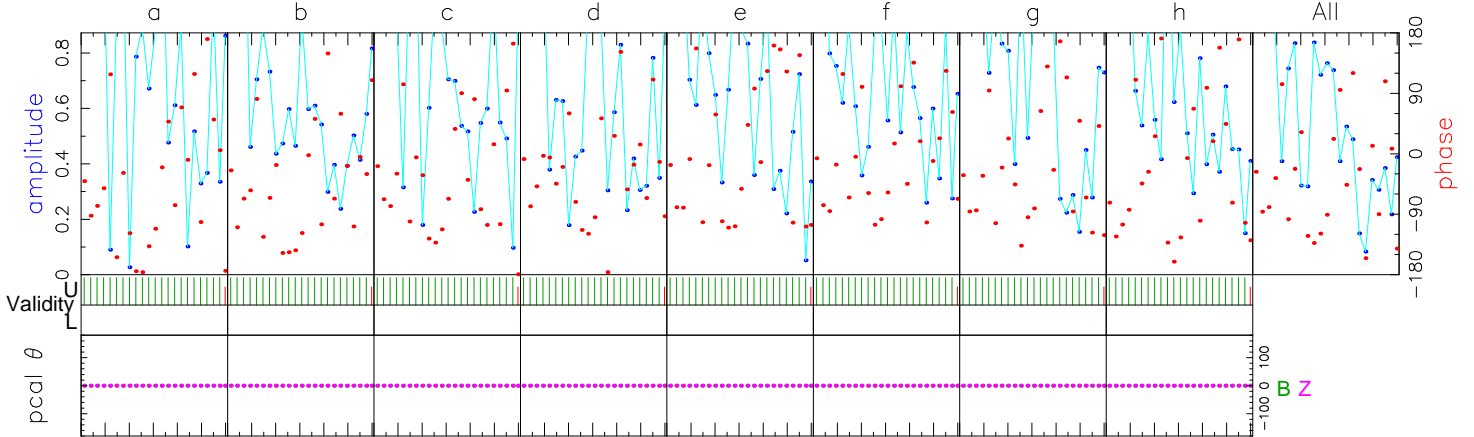


Fringe quality 9

SNR 15.1  
 Int time 358.951  
 Amp 0.291  
 Phase -63.0  
 PFD 1.8e-42  
 Delays (us)  
 SBD -0.002936  
 MBD -0.003148  
 Fringe rate (Hz)  
 -0.035967  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

Exp. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190113  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-72.6	-72.7	-62.4	-40.8	-70.7	-37.1	-57.1	-97.7	Phase	-63.0
	0.3	0.3	0.4	0.3	0.2	0.3	0.3	0.3	Ampl.	0.3
	255.2	255.8	256.3	257.0	19.8	256.2	255.8	257.1	Sbd box	256.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	9.79454710610E+02		Apriori delay (usec)		9.79457858573E+02		Resid mbdelay (usec)		-3.14796E-03	+/- 7.2E-05
Sband delay (usec)	9.79454922323E+02		Apriori clock (usec)		1.3206373E+01		Resid sbdelay (usec)		-2.93625E-03	+/- 5.7E-04
Phase delay (usec)	9.79457856540E+02		Apriori clockrate (us/s)		-1.7789999E-06		Resid phdelay (usec)		-2.03306E-06	+/- 2.5E-07
Delay rate (us/s)	1.92299898368E-01		Apriori rate (us/s)		1.92300315912E-01		Resid rate (us/s)		-4.17544E-07	+/- 1.2E-09
Total phase (deg)	274.4		Apriori accel (us/s/s)		-1.23449952164E-05		Resid phase (deg)		-63.0	+/- 7.6

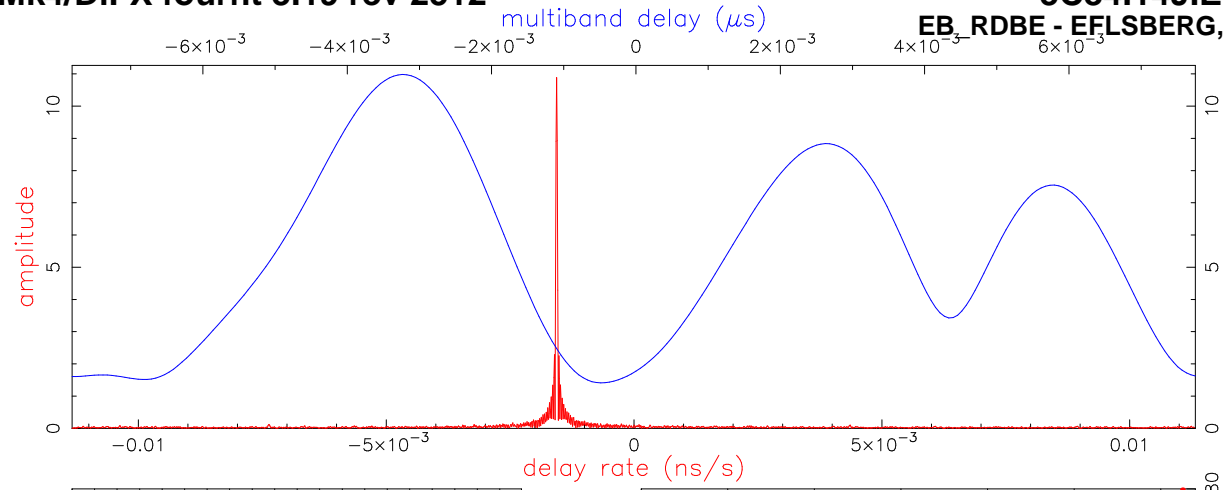
ph/seg (deg) 87.4 18.2 Theor. Amplitude 0.291 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 161.9 31.8 Search (2048X32) 0.284 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 21.0 10.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 17.9 18.8 Inc. seg. avg. 0.574 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 B: az 149.3 el 79.9 pa -23.0 Z: az 204.0 el 70.3 pa 17.3 u,v (fr/asec) -1491.939 -1483.864 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00  
 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/BZ..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/BZ.W.4.14JIE9

Mk4/DiFX fourfit 3.19 rev 2512

3C84.14JIE9, No0002, EB

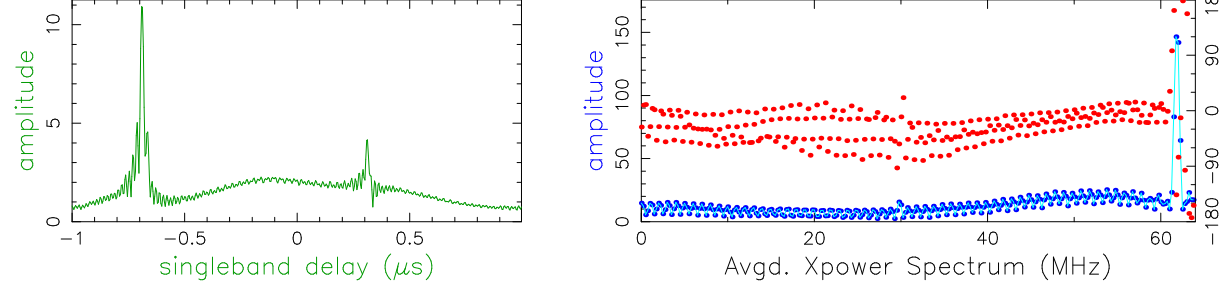
EB\_RDBE - EFLSBERG, fgroup W, pol RR



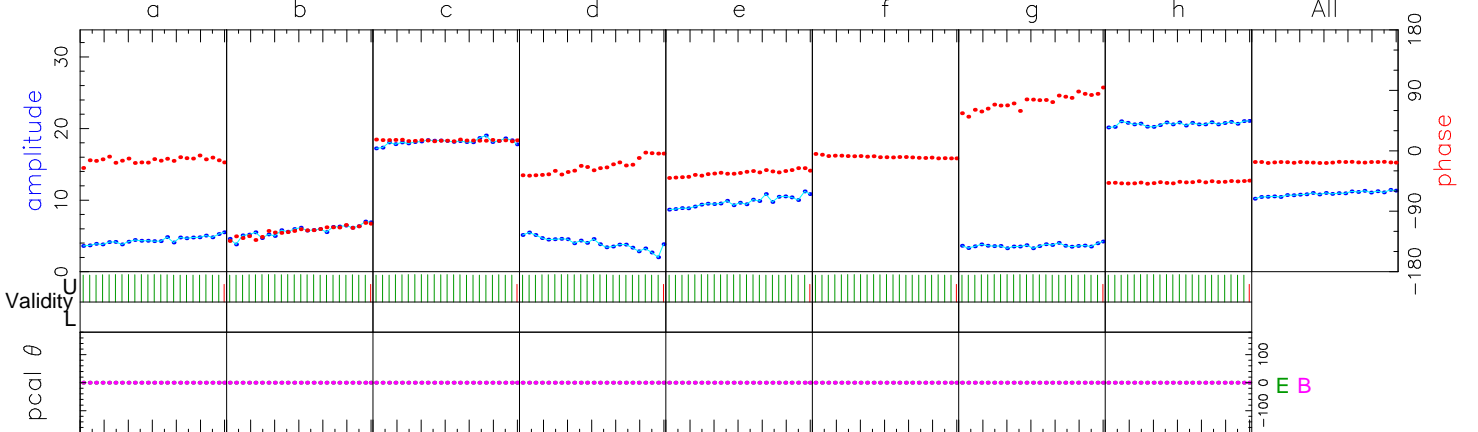
Fringe quality 5

SNR 575.4  
 Int time 354.467  
 Amp 11.264  
 Phase -17.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.689520  
 MBD -0.003051  
 Fringe rate (Hz)  
 -0.134626  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

Exp. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190116  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

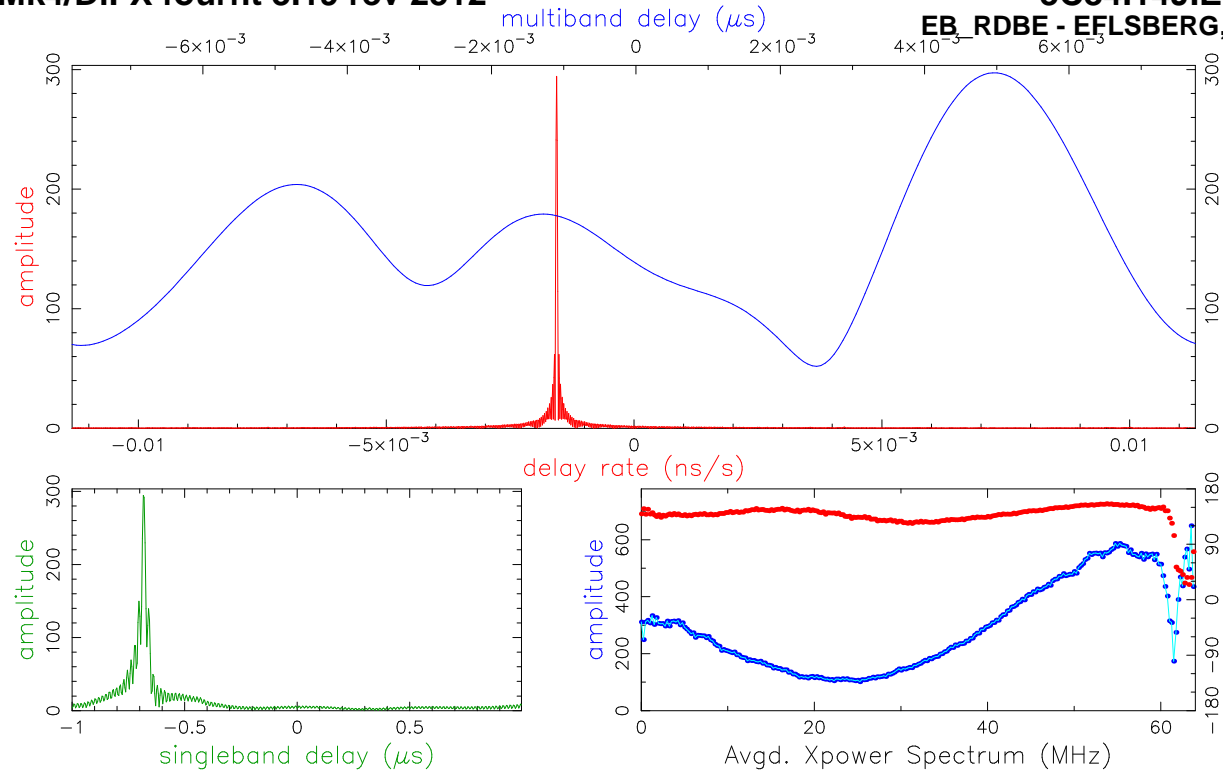


Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-13.7	-118.9	15.3	-25.8	-32.8	-9.0	72.7	-46.9	Phase	-17.2
	4.4	5.7	18.3	4.0	9.8	38.0	3.6	20.8	Ampl.	13.1
	340.5	336.2	83.7	78.5	337.7	82.9	335.5	81.0	Sbd box	80.5
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
E:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
E:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
E	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.71801209968E-02		Apriori delay (usec)		7.67731240001E-01		Resid mbdelay (usec)		-3.05112E-03	+/- 1.9E-06
Sband delay (usec)	7.82109900013E-02		Apriori clock (usec)		7.6773071E-01		Resid sbdelay (usec)		-6.89520E-01	+/- 1.5E-05
Phase delay (usec)	7.67730685886E-01		Apriori clockrate (us/s)		1.5629999E-06		Resid phdelay (usec)		-5.54116E-07	+/- 6.4E-09
Delay rate (us/s)	1.20287335907E-10		Apriori rate (us/s)		1.56300000001E-06		Resid rate (us/s)		-1.56288E-06	+/- 3.1E-11
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-17.2	+/- 0.2

ph/seg (deg) 0.5 0.5      Amplitude 11.264 +/- 0.020      Pcal mode: MANUAL, MANUAL      PC period (AP's) 5, 5  
 amp/seg (%) 3.9 0.8      Search (2048X32) 10.855      Pcal rate: 0.000E+00, 0.000E+00 (us/s)      sb window (us) -1.000 1.000  
 ph/frq (deg) 58.8 0.3      Interp. 0.000      Bits/sample: 2x2      SampCntNorm: enabled      mb window (us) -0.008 0.008  
 amp/frq (%) 101.7 0.5      Inc. seg. avg. 10.971      Sample rate(MISamp/s): 128      dr window (ns/s) -0.011 0.011  
 E: az 149.3 el 79.9 pa -25.5      B: az 149.3 el 79.9 pa -23.0      u,v (fr/asec) 0.000 0.000      Data rate(Mb/s): 2048      nlags: 256      t\_cohere infinite      ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva      Input file: /Exps/f201b/FRINGE/1234/No0002/EB..14JIE9      Output file: /Exps/f201b/FRINGE/1234/No0002/EB.V.16.14JIE9      simultaneous interpolator

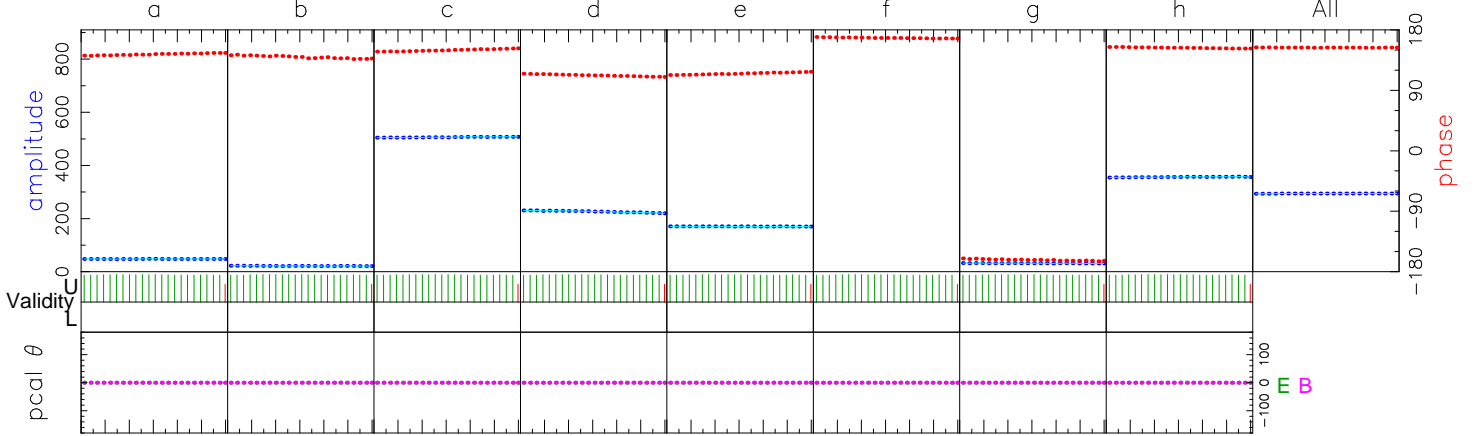


Fringe quality 5

SNR 15504.0  
Int time 354.463  
Amp 303.502  
Phase 153.6  
PFD 0.0e+00  
Delays (us)  
SBD -0.681831  
MBD 0.004766  
Fringe rate (Hz)  
-0.134668  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. f201b  
Exper # 16383  
Yr:day 2020:115  
Start 121500.00  
Stop 122059.94  
FRT 121800.00  
Corr/FF/build  
2020:115:185931  
2020:115:190120  
2020:014:135814  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

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



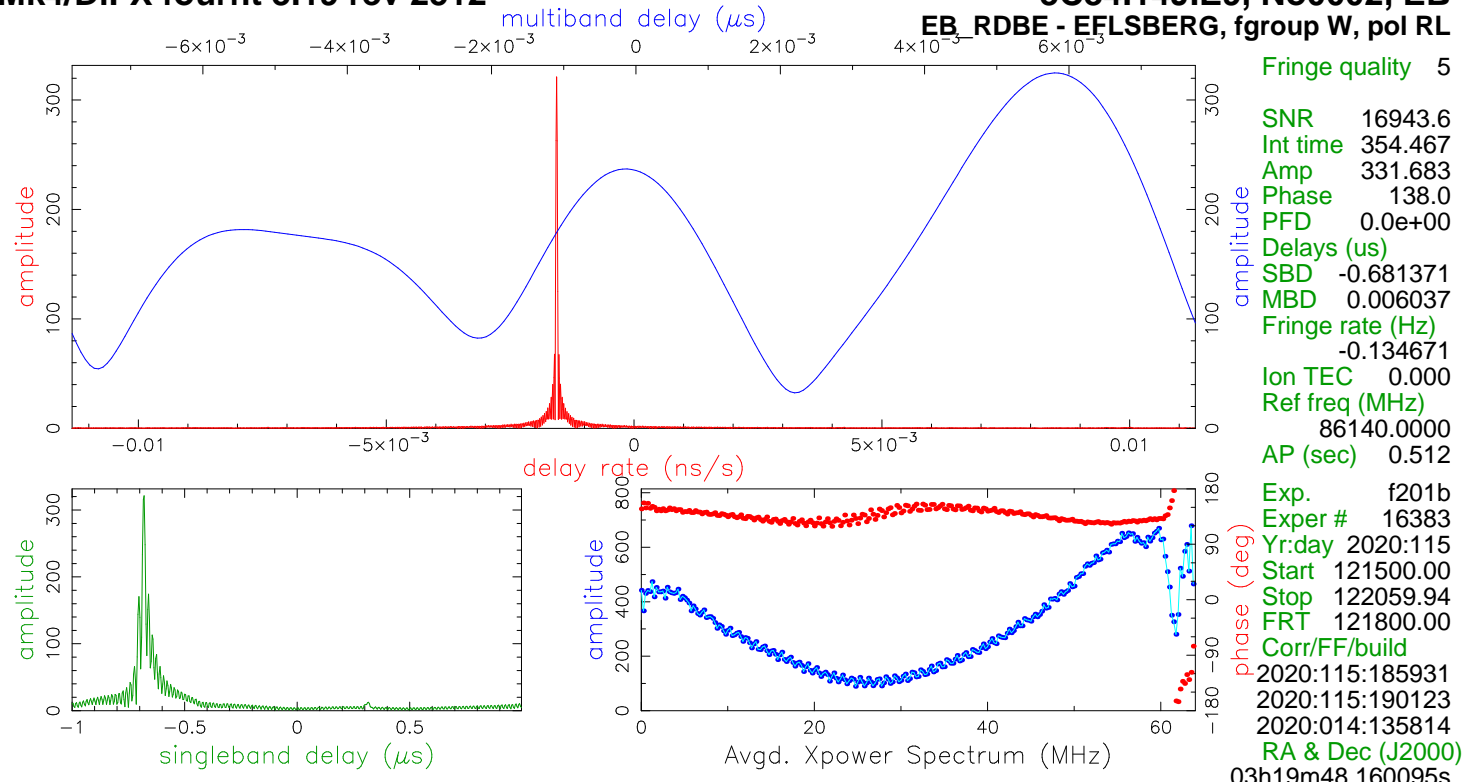
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
E	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
E:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
E:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000		
E	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	8.49971522468E-02	Apriori delay (usec)	7.67731240001E-01	Resid mbdelay (usec)	4.76591E-03	+/-	7.0E-08
Sband delay (usec)	8.58999900013E-02	Apriori clock (usec)	7.6773071E-01	Resid sbdelay (usec)	-6.81831E-01	+/-	5.6E-07
Phase delay (usec)	7.67736191636E-01	Apriori clockrate (us/s)	1.5629999E-06	Resid phdelay (usec)	4.95163E-06	+/-	2.4E-10
Delay rate (us/s)	-3.59406172552E-10	Apriori rate (us/s)	1.56300000001E-06	Resid rate (us/s)	-1.56336E-06	+/-	1.1E-12
Total phase (deg)	286.4	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	153.6	+/-	0.0

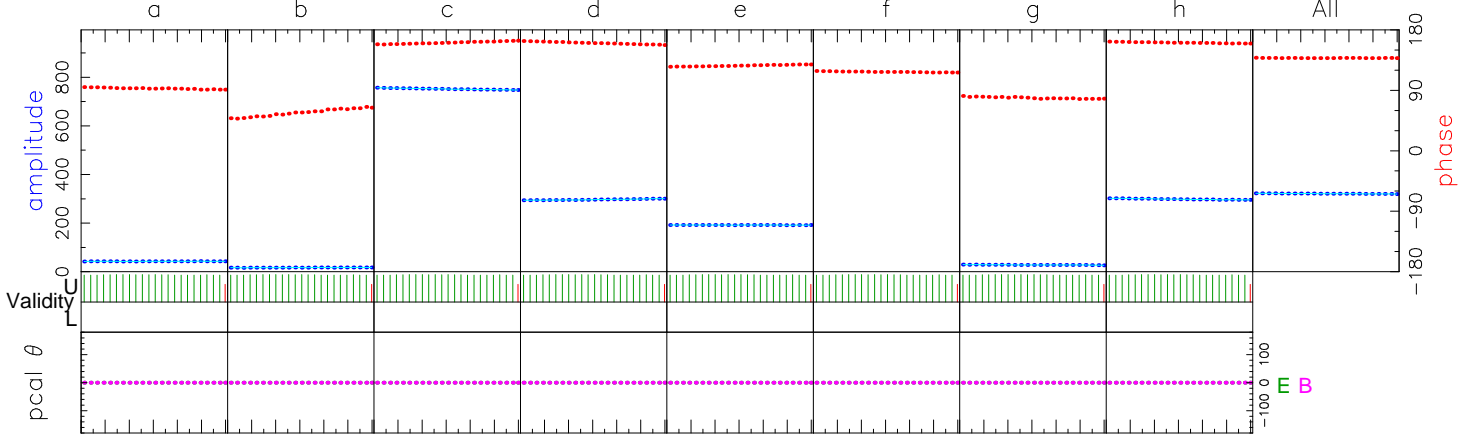
ph/seg (deg)	0.1	0.0	Amplitude	303.502 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	2.2	0.0	Search (2048X32)	291.742	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	30.7	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	116.0	0.0	Inc. seg. avg.	296.701	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
			Inc. frq. avg.	314.460	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

E: az 149.3 el 79.9 pa -25.5 B: az 149.3 el 79.9 pa -23.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/EB..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/EB.W.26.14JIE9



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

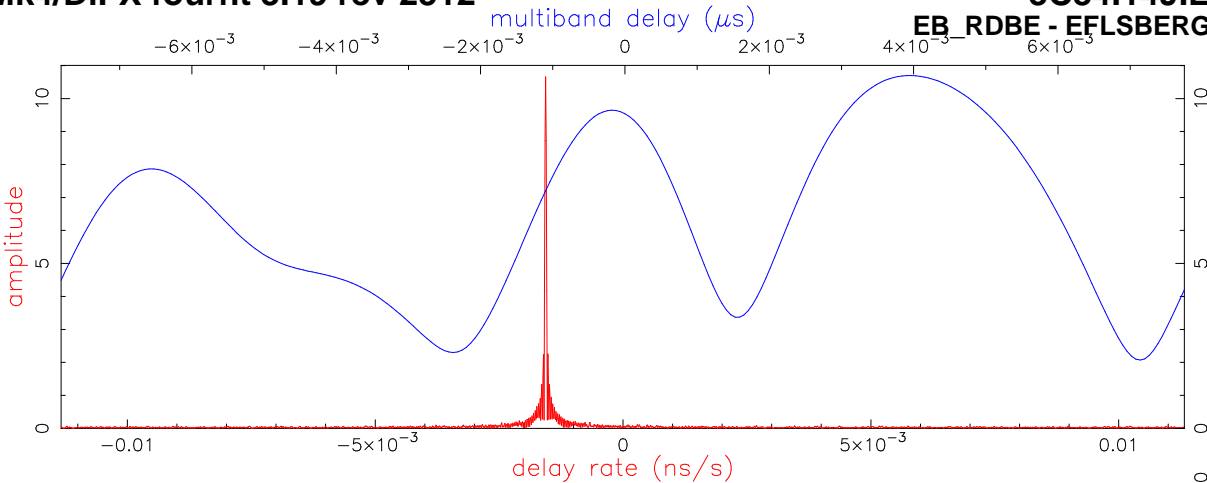


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
92.8	56.8	160.8	160.4	126.7	117.4	78.8	160.9	160.9	Phase	138.0
43.3	17.3	757.4	299.1	193.5	1175.9	28.3	300.9	300.9	Ampl.	352.0
79.7	81.3	81.6	84.4	81.2	82.1	83.7	81.4	81.4	Sbd box	82.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
E:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
E:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
E	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
B	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
E	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	8.62678866218E-02		Apriori delay (usec)		7.67731240001E-01		Resid mbdelay (usec)		6.03665E-03 +/- 6.4E-08	
Sband delay (usec)	8.63599900013E-02		Apriori clock (usec)		7.6773071E-01		Resid sbdelay (usec)		-6.81371E-01 +/- 5.1E-07	
Phase delay (usec)	7.67735690598E-01		Apriori clockrate (us/s)		1.5629999E-06		Resid phdelay (usec)		4.45060E-06 +/- 2.2E-10	
Delay rate (us/s)	-3.96959726390E-10		Apriori rate (us/s)		1.56300000001E-06		Resid rate (us/s)		-1.56340E-06 +/- 1.0E-12	
Total phase (deg)	270.9		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		138.0 +/- 0.0	

	RMS	Theor.	Amplitude	331.683 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	0.1	0.0	Search (2048X32)	316.370	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
amp/seg (%)	2.4	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
ph/frq (deg)	48.7	0.0	Inc. seg. avg.	323.739	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011		
amp/frq (%)	116.2	0.0	Inc. frq. avg.	351.953	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

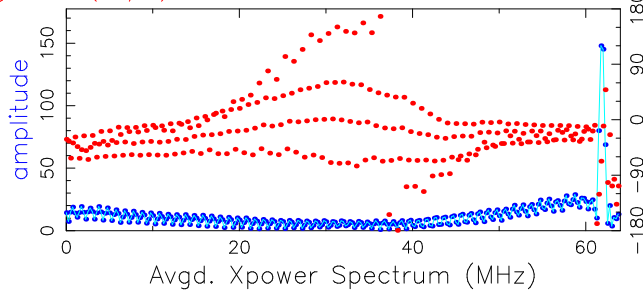
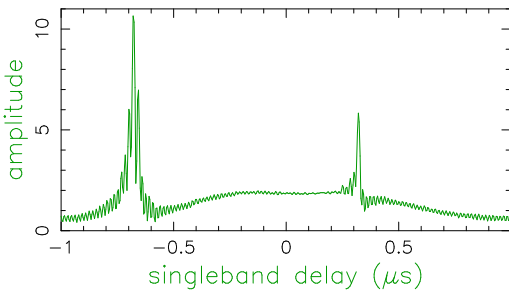
E: az 149.3 el 79.9 pa -25.5    B: az 149.3 el 79.9 pa -23.0    u,v (fr/asec) 0.000 0.000    simultaneous interpolator

Control file: cf\_1234\_gmva    Input file: /Exps/f201b/FRINGE/1234/No0002/EB..14JIE9    Output file: /Exps/f201b/FRINGE/1234/No0002/EB.W.36.14JIE9



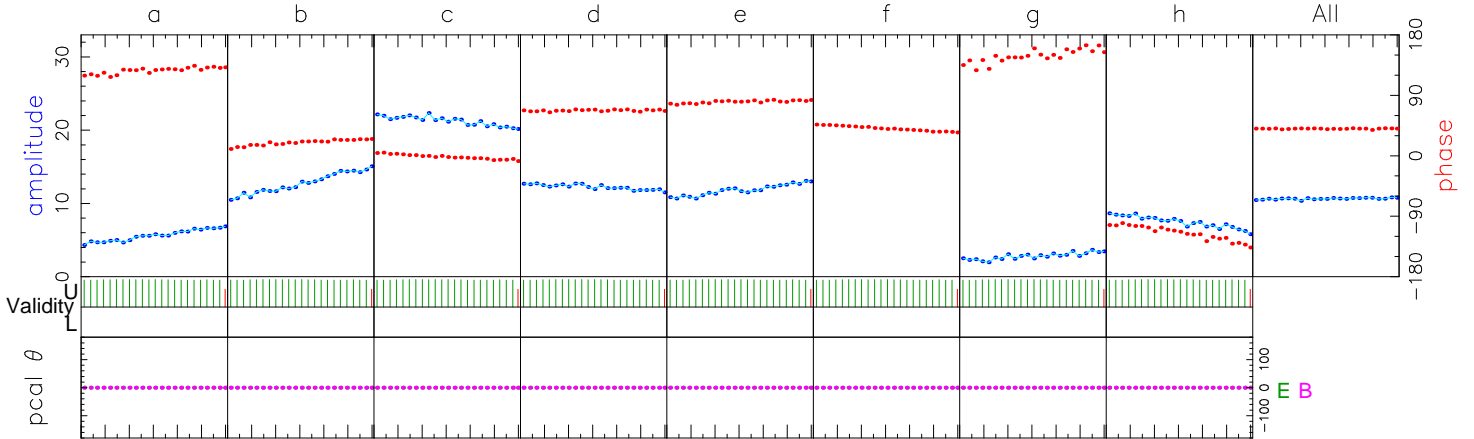
Fringe quality 5

SNR 562.2  
 Int time 354.463  
 Amp 11.006  
 Phase 40.3  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.678099  
 MBD 0.003757  
 Fringe rate (Hz)  
 -0.134597  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190113  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	127.3	20.0	-1.4	67.4	80.4	40.7	149.5	-113.9	Phase	40.3
	5.7	12.8	21.4	12.4	11.9	45.1	2.8	7.4	Ampl.	14.9
	340.0	338.8	85.8	87.8	82.8	83.8	337.1	340.2	Sbd box	83.4
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
E:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
E:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
E	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) 8.39884022468E-02 Apriori delay (usec) 7.67731240001E-01 Resid mbdelay (usec) 3.75716E-03 +/- 1.9E-06  
 Sband delay (usec) 8.96319900013E-02 Apriori clock (usec) 7.6773071E-01 Resid sbdelay (usec) -6.78099E-01 +/- 1.5E-05  
 Phase delay (usec) 7.67732538550E-01 Apriori clockrate (us/s) 1.5629999E-06 Resid phdelay (usec) 1.29855E-06 +/- 6.6E-09  
 Delay rate (us/s) 4.62520666166E-10 Apriori rate (us/s) 1.56300000001E-06 Resid rate (us/s) -1.56254E-06 +/- 3.2E-11  
 Total phase (deg) 173.1 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 40.3 +/- 0.2

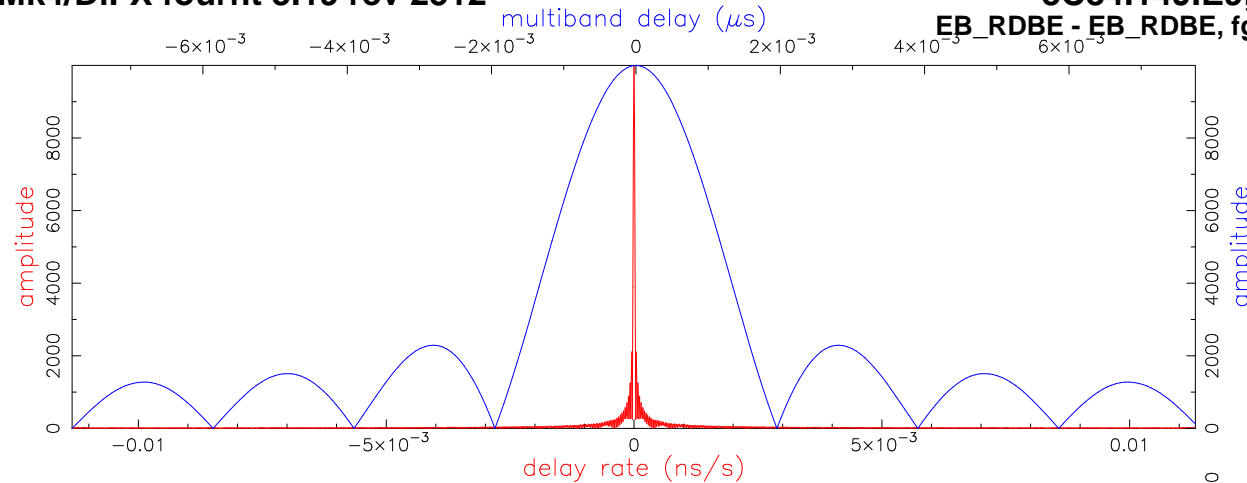
RMS Theor. Amplitude 11.006 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.6 0.5 Search (2048X32) 10.538 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 2.6 0.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 89.2 0.3 Inc. seg. avg. 10.738 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 119.6 0.5 Inc. frq. avg. 14.937 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

E: az 149.3 el 79.9 pa -25.5 B: az 149.3 el 79.9 pa -23.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/EB..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/EB.W.5.14JIE9

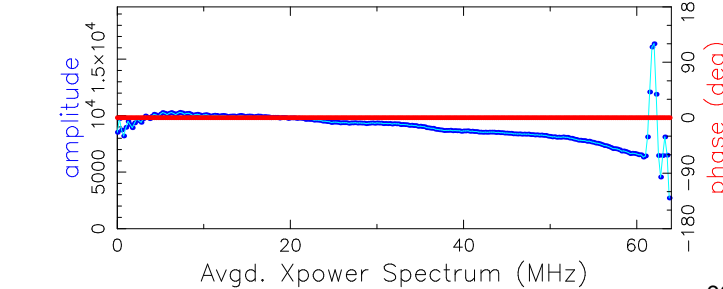
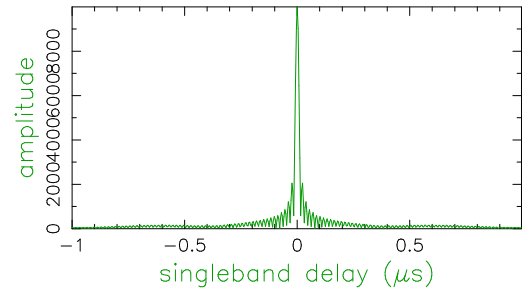


Mk4/DiFX fourfit 3.19 rev 2512

3C84.14JIE9, No0002, EE  
EB\_RDBE - EB\_RDBE, fgroup W, pol RR

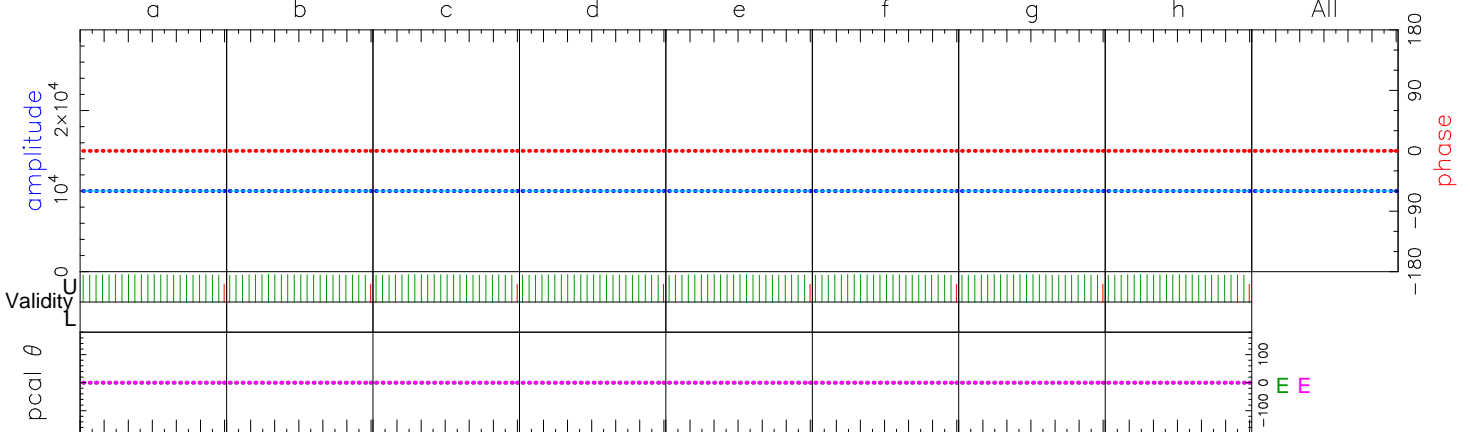


Fringe quality 9  
SNR 514961.1  
Int time 354.612  
Amp 9999.999  
Phase 0.0  
PFD 0.0e+00  
Delays (us)  
SBD 0.000000  
MBD 0.000000  
Fringe rate (Hz)  
0.000000  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. f201b  
Exper # 16383  
Yr:day 2020:115  
Start 121500.00  
Stop 122059.94  
FRT 121800.00  
Corr/FF/build  
2020:115:185931  
2020:115:190116  
2020:014:135814  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

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



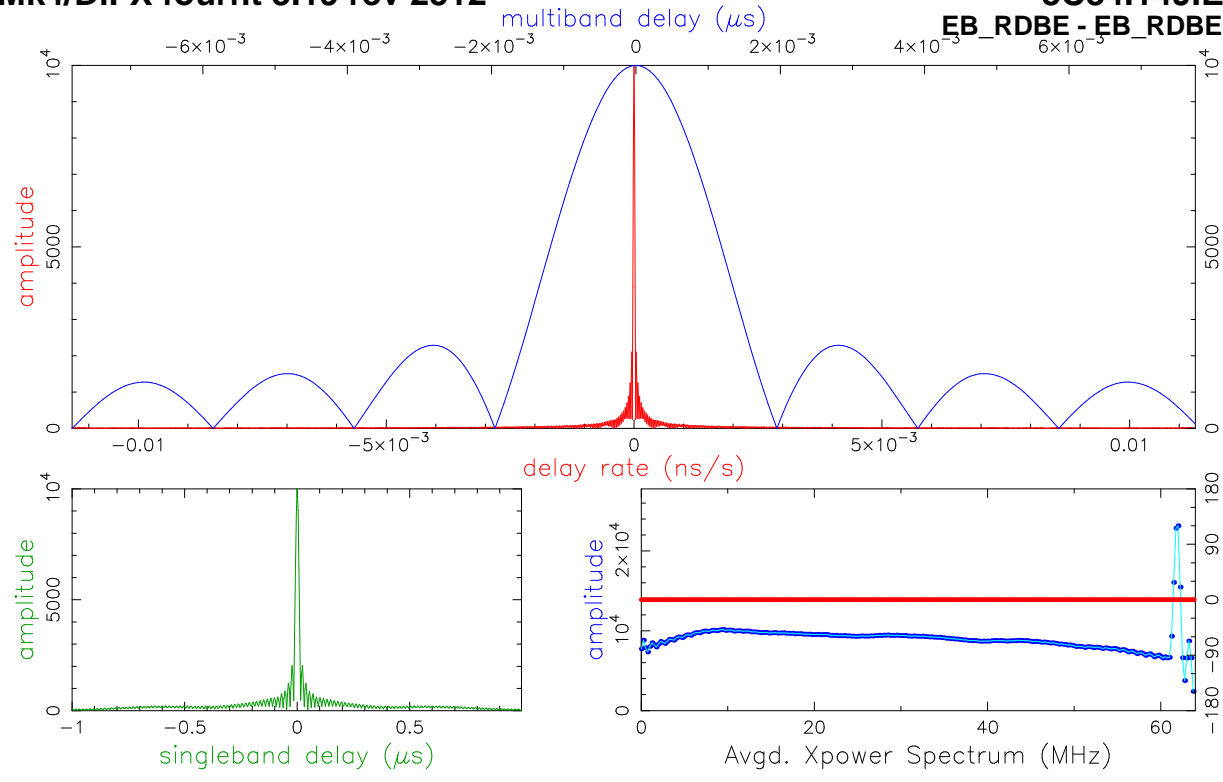
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
E	1000	1000	1000	1000	1000	1000	1000	1000		
E:E	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
E:E	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
E	1000	1000	1000	1000	1000	1000	1000	1000		
E	1000	1000	1000	1000	1000	1000	1000	1000		
E	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
E	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	+/-	2.1E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.7E-08
Phase delay (usec)	4.88305421520E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.88305E-20	+/-	7.2E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.5E-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 +/- 0.019	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

E: az 149.3 el 79.9 pa -25.5 E: az 149.3 el 79.9 pa -25.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/EE..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/EE.W.12.14JIE9

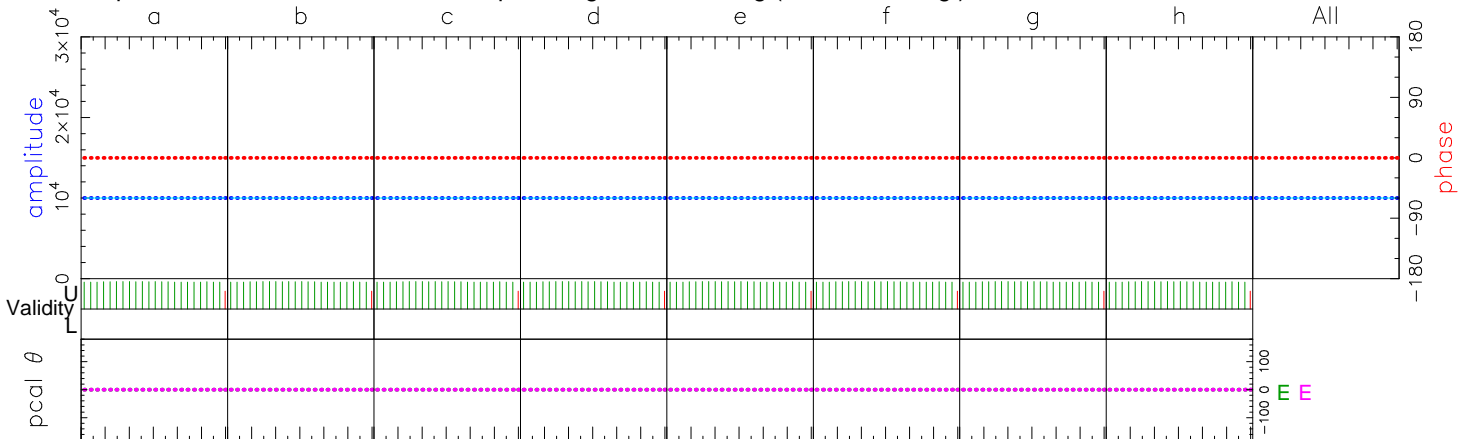


Fringe quality 9

SNR 514958.8  
Int time 354.608  
Amp 10000.013  
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. f201b  
Exper # 16383  
Yr:day 2020:115  
Start 121500.00  
Stop 122059.94  
FRT 121800.00  
Corr/FF/build  
2020:115:185931  
2020:115:190113  
2020:014:135814  
RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
E	1000	1000	1000	1000	1000	1000	1000	1000		
E:E	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
E:E	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
E	1000	1000	1000	1000	1000	1000	1000	1000		
E	1000	1000	1000	1000	1000	1000	1000	1000		
E	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
E	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		
Phase delay (usec)	3.13782560132E-19	3.13782560132E-19	3.13782560132E-19	3.13782560132E-19	3.13782560132E-19	3.13782560132E-19	3.13782560132E-19	3.13782560132E-19		
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		
Total phase (deg)			0.0							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										

ph/seg (deg) 0.0 0.0  
amp/seg (%) 0.0 0.0  
ph/frq (deg) 0.0 0.0  
amp/frq (%) 0.0 0.0

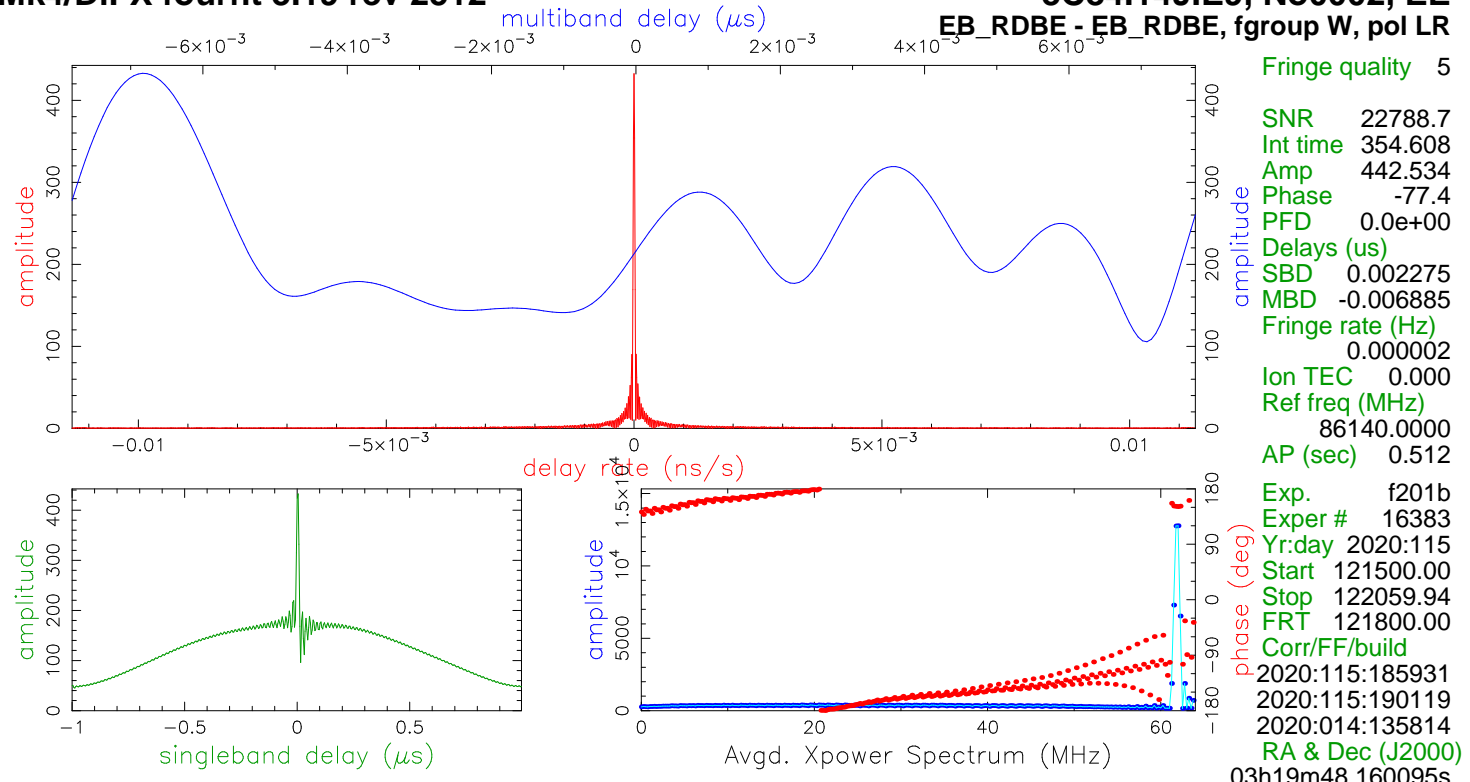
RMS Theor. Amplitude 10000.013 +/- 0.019  
Search (2048X32) 10000.013  
Interp. 0.000  
Inc. seg. avg. 10000.000  
Inc. frq. avg. 10000.013

PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
PCal rate: 0.000E+00, 0.000E+00 (us/s)  
Bits/sample: 2x2 SampCntNorm: enabled  
Sample rate(MISamp/s): 128  
Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite

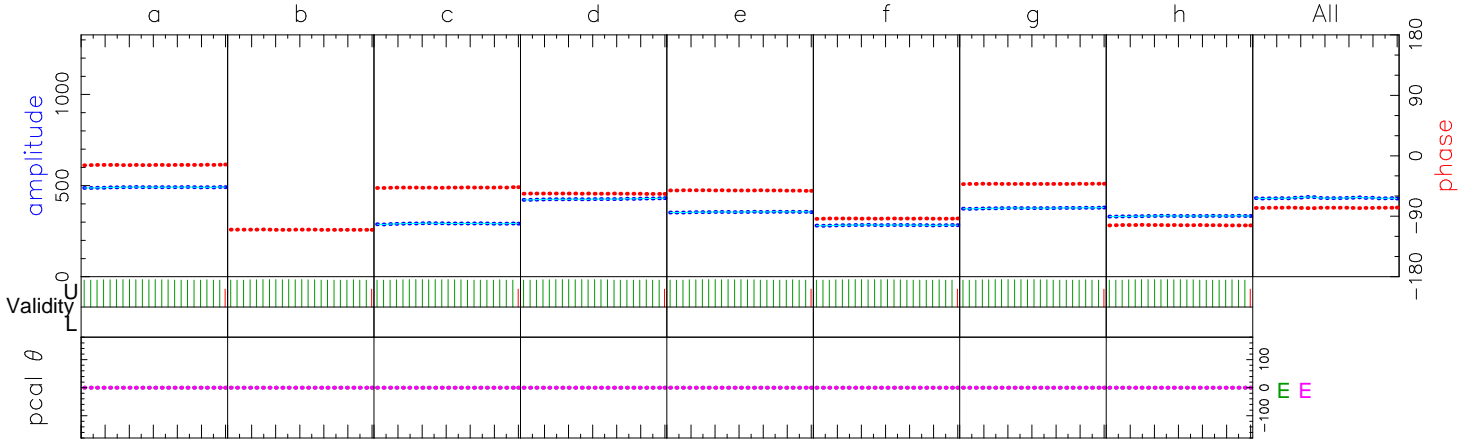
sb window (us) -1.000 1.000  
mb window (us) -0.008 0.008  
dr window (ns/s) -0.011 0.011  
ion window (TEC) 0.00 0.00

E: az 149.3 el 79.9 pa -25.5 E: az 149.3 el 79.9 pa -25.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/EE..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/EE.W.2.14JIE9



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



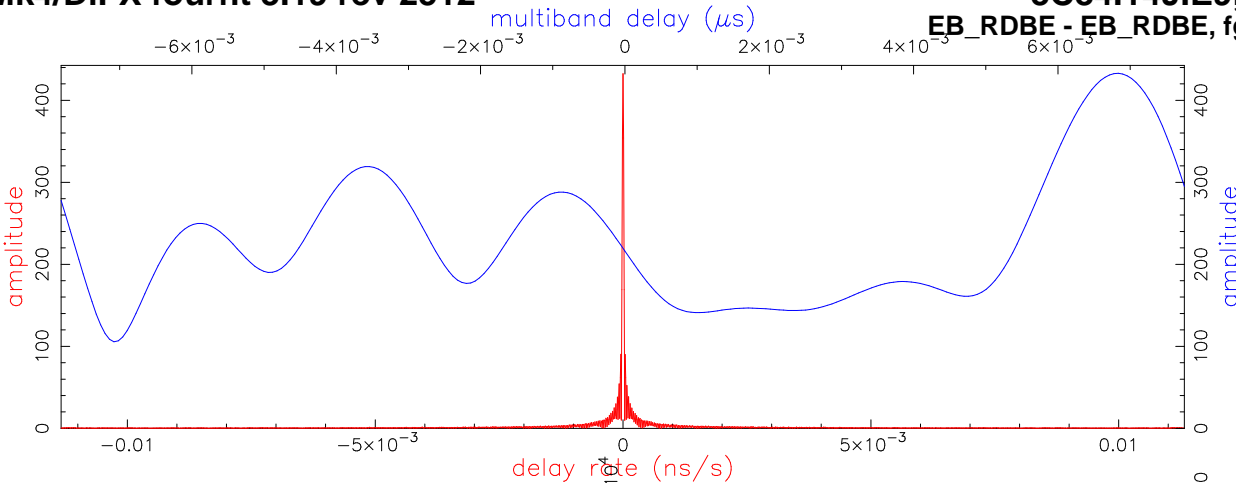
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-13.6	-110.0	-47.3	-56.4	-51.6	-93.4	-41.8	-103.2	Phase	-77.4
	490.7	1654.7	291.7	426.2	355.0	283.0	376.6	333.1	Ampl.	526.4
	258.9	257.2	258.9	259.1	259.0	258.8	258.9	259.0	Sbd box	257.6
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
E:E	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
E:E	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
E	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
E	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	8.74034375000E-03		Apriori delay (usec)	0.00000000000E+00		Resid mbdelay (usec)	-6.88466E-03		+/-	4.8E-08
Sband delay (usec)	2.27475000000E-03		Apriori clock (usec)	0.0000000E+00		Resid sbdelay (usec)	2.27475E-03		+/-	3.8E-07
Phase delay (usec)	-2.49686670869E-06		Apriori clockrate (us/s)	0.0000000E+00		Resid phdelay (usec)	-2.49687E-06		+/-	1.6E-10
Delay rate (us/s)	2.33824014463E-11		Apriori rate (us/s)	0.00000000000E+00		Resid rate (us/s)	2.33824E-11		+/-	7.8E-13
Total phase (deg)		-77.4	Apriori accel (us/s/s)	0.00000000000E+00		Resid phase (deg)	-77.4		+/-	0.0

RMS Theor. Amplitude 442.534 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.2 0.0 Search (2048X32) 432.898 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 2.4 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 39.5 0.0 Inc. seg. avg. 432.339 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 99.3 0.0 Inc. frq. avg. 526.396 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

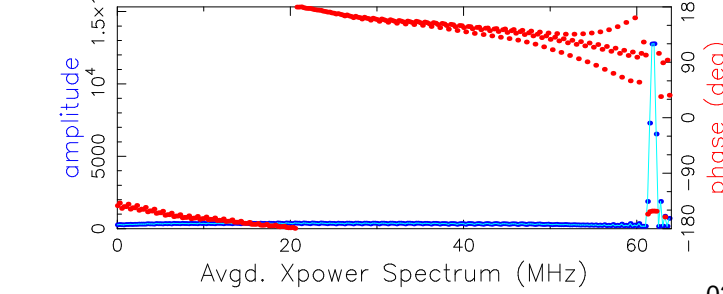
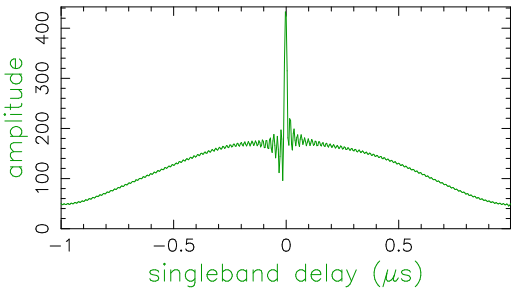
E: az 149.3 el 79.9 pa -25.5 E: az 149.3 el 79.9 pa -25.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/EE..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/EE.W.22.14JIE9

Mk4/DiFX fourfit 3.19 rev 2512

3C84.14JIE9, No0002, EE  
EB\_RDBE - EB\_RDBE, fgroup W, pol RL

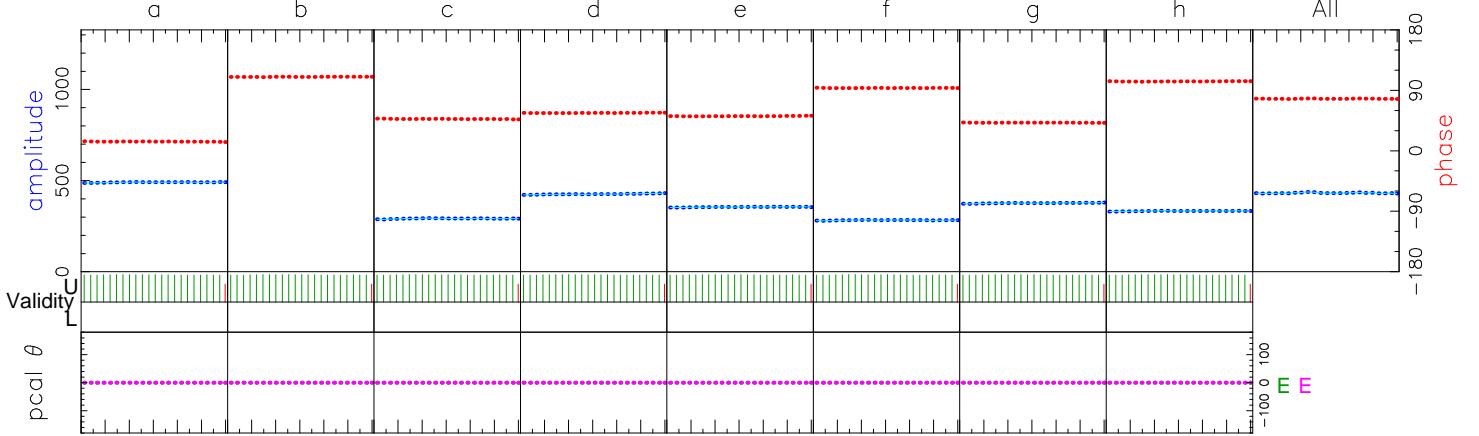


Fringe quality 5  
SNR 22788.5  
Int time 354.612  
Amp 442.529  
Phase 77.4  
PFD 0.0e+00  
Delays (us)  
SBD -0.002275  
MBD 0.006885  
Fringe rate (Hz)  
-0.000002  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. f201b  
Exper # 16383  
Yr:day 2020:115  
Start 121500.00  
Stop 122059.94  
FRT 121800.00  
Corr/FF/build  
2020:115:185931  
2020:115:190122  
2020:014:135814  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"



Avgd. Xpower Spectrum (MHz)

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



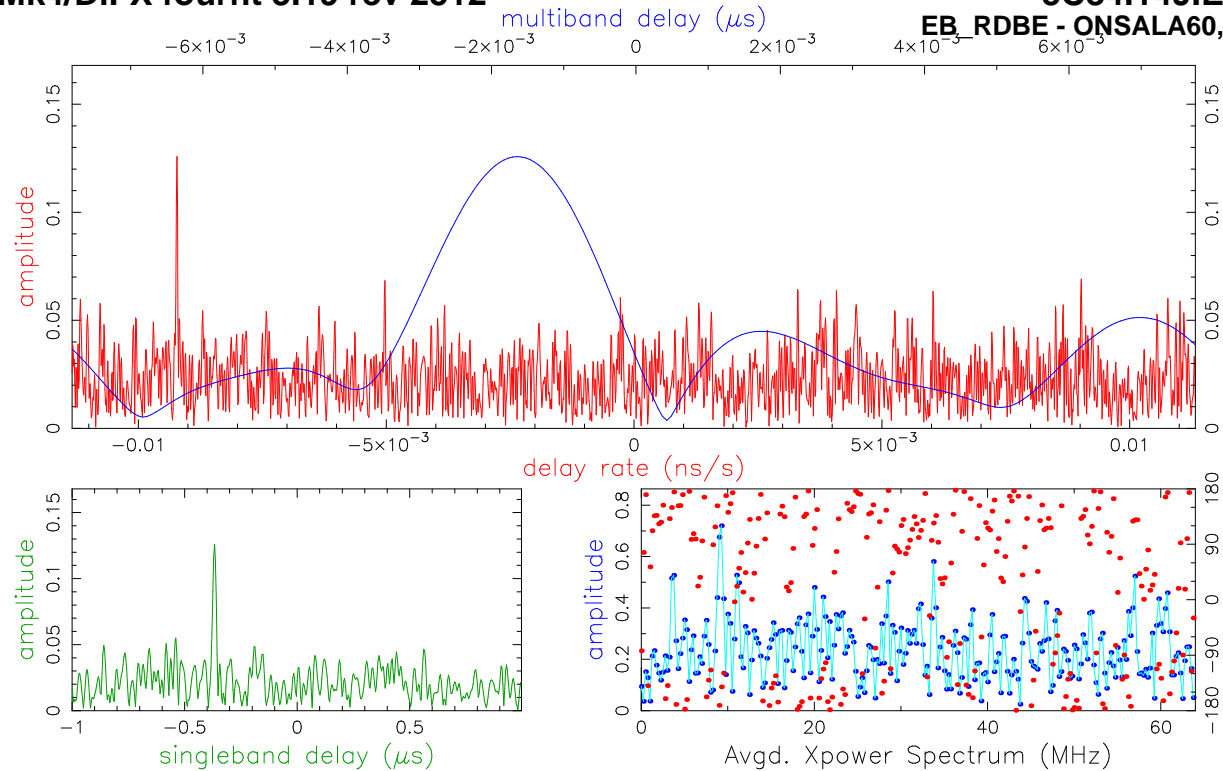
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
E:E	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
E:E	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
E	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
E	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	-8.74034375000E-03								Resid mbdelay (usec)	6.88466E-03 +/- 4.8E-08
Sband delay (usec)	-2.27475000000E-03								Resid sbdelay (usec)	-2.27475E-03 +/- 3.8E-07
Phase delay (usec)	2.49686670924E-06								Resid phdelay (usec)	2.49687E-06 +/- 1.6E-10
Delay rate (us/s)	-2.33824014463E-11								Resid rate (us/s)	-2.33824E-11 +/- 7.8E-13
Total phase (deg)			77.4						Resid phase (deg)	77.4 +/- 0.0
ph/seg (deg)	0.2	0.0							PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	2.4	0.0							PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	39.5	0.0							Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%)	99.3	0.0							Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
									Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

E: az 149.3 el 79.9 pa -25.5 E: az 149.3 el 79.9 pa -25.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/EE..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/EE.W.32.14JIE9

Mk4/DiFX fourfit 3.19 rev 2512

3C84.14JIE9, No0002, EX

EB\_RDBE - ONSALA60, fgroup W, pol RR

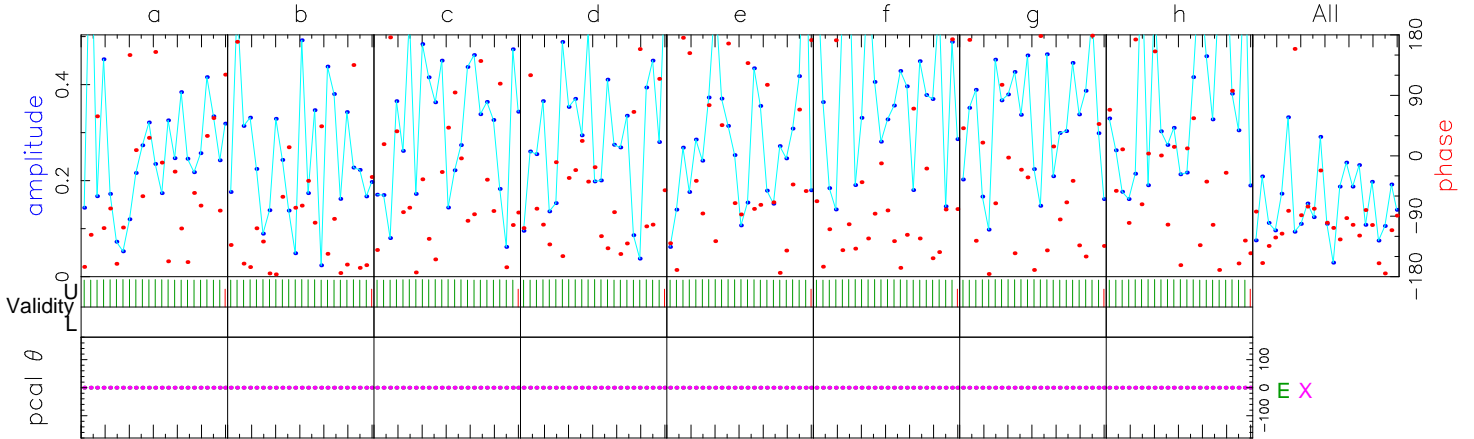


Fringe quality 0

SNR 6.5  
 Int time 354.589  
 Amp 0.168  
 Phase -103.4  
 PFD 2.6e-02  
 Delays (us)  
 SBD -0.367339  
 MBD -0.001642  
 Fringe rate (Hz)  
 -0.795353  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

Exp. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190117  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

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

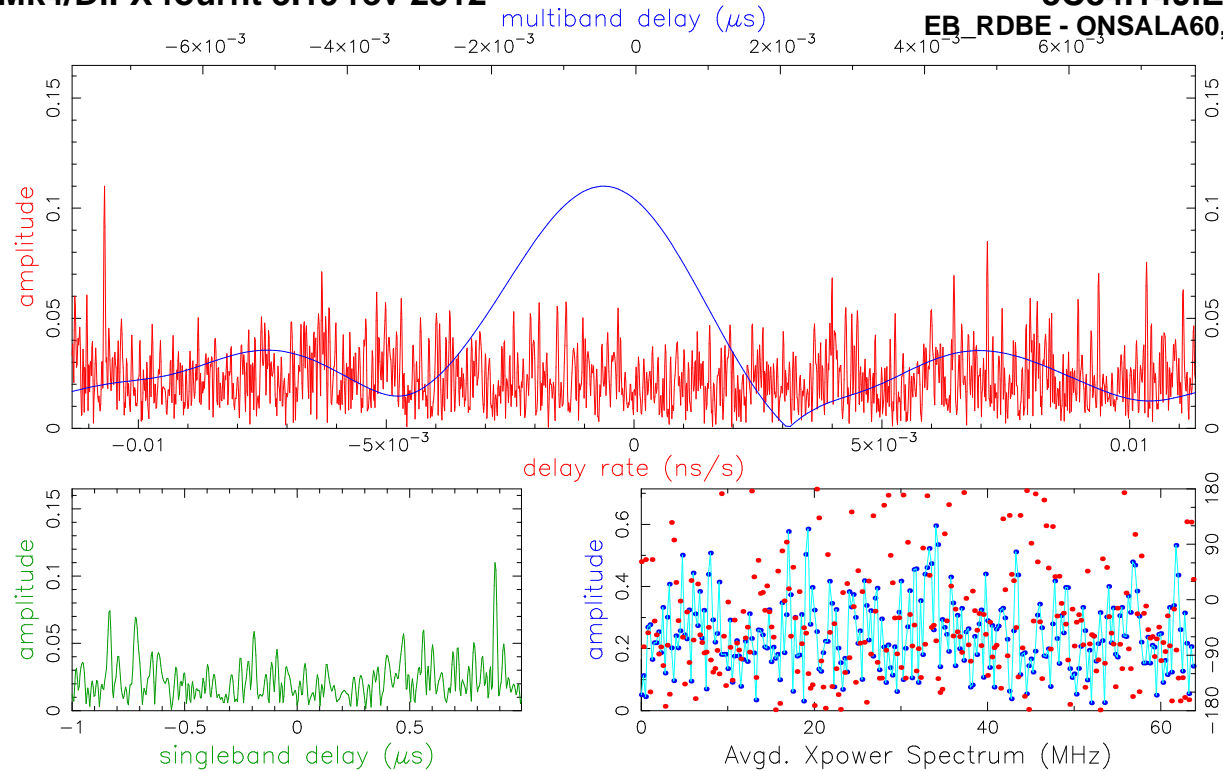


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-85.6	-137.8	-77.1	-88.6	-96.5	-115.6	-106.3	-92.0	Phase	-103.4
	0.1	0.2	0.2	0.2	0.1	0.4	0.1	0.1	Ampl.	0.2
	140.9	202.8	306.0	271.8	116.7	162.4	139.7	10.5	Sbd box	163.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
E:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
E:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
E	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.67682832864E+02		Apriori delay (usec)		4.68043849511E+02		Resid mbdelay (usec)		-1.64165E-03	+/- 1.7E-04
Sband delay (usec)	4.67676510511E+02		Apriori clock (usec)		-2.6833683E+01		Resid sbdelay (usec)		-3.67339E-01	+/- 1.3E-03
Phase delay (usec)	4.68043846178E+02		Apriori clockrate (us/s)		-7.2800002E-07		Resid phdelay (usec)		-3.33302E-06	+/- 5.7E-07
Delay rate (us/s)	6.66167840235E-02		Apriori rate (us/s)		6.66260172888E-02		Resid rate (us/s)		-9.23327E-06	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		-7.92188642572E-06		Resid phase (deg)		-103.4	+/- 17.7

	RMS	Theor.	Amplitude	0.168 +/- 0.026	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	38.2	42.4	Search (2048X32)	0.125	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	62.3	74.1	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	21.4	25.0	Inc. seg. avg.	0.163	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	46.2	43.7	Inc. frq. avg.	0.162	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

E: az 149.3 el 79.9 pa -25.5 X: az 174.9 el 74.1 pa -2.6 u,v (fr/asec) -522.627 -1015.342 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/EX..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/EX.W.18.14JIE9

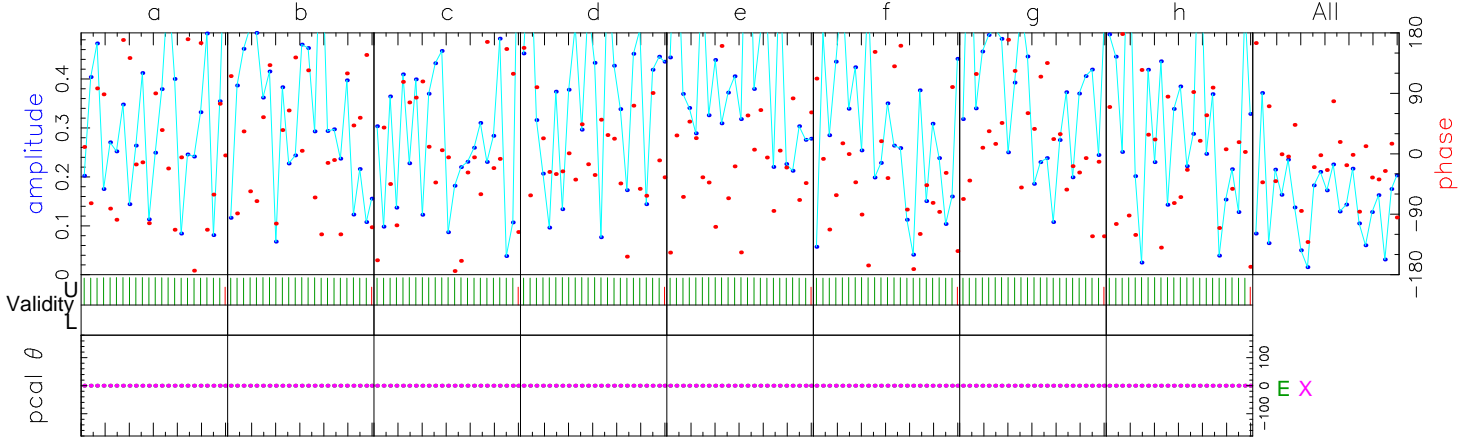


Fringe quality 0

SNR 5.7  
 Int time 354.585  
 Amp 0.165  
 Phase -13.7  
 PFD 9.5e-01  
 Delays (us)  
 SBD 0.879897  
 MBD -0.000444  
 Fringe rate (Hz)  
 -0.921969  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

Exp. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190120  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

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

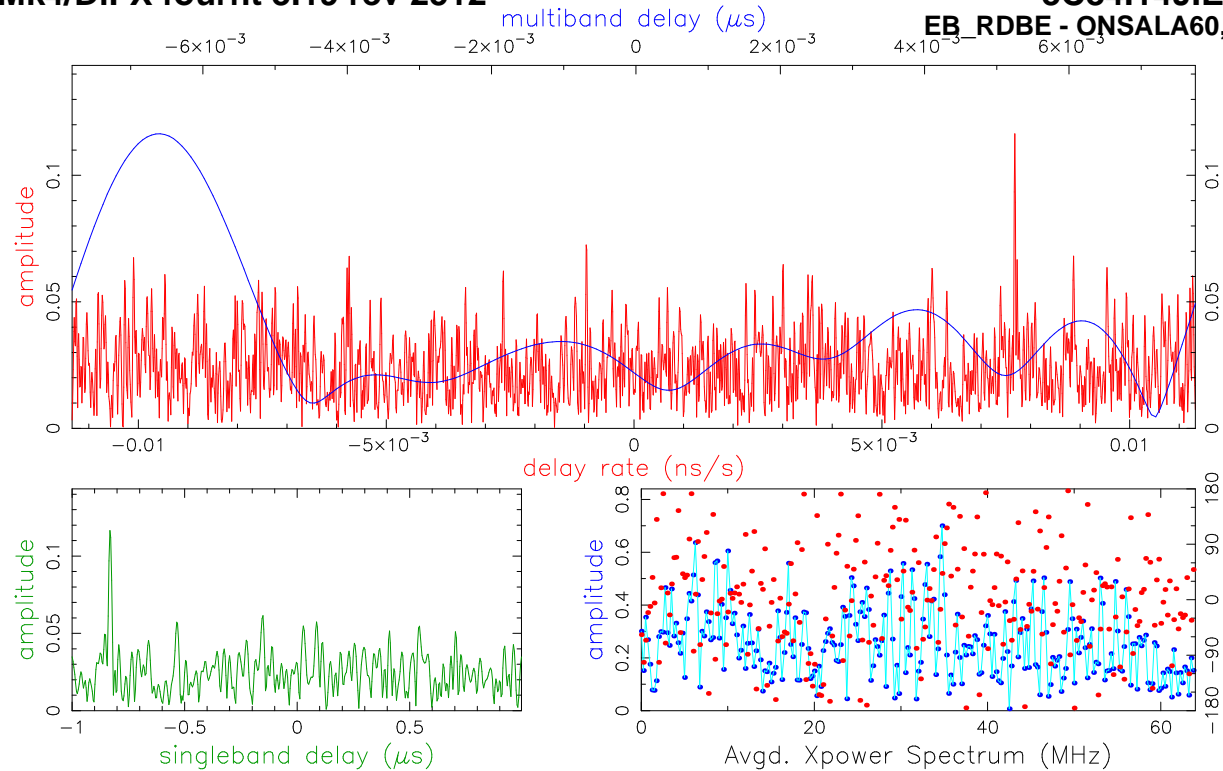


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-34.2	-2.0	-15.4	-6.5	-6.6	-65.4	1.1	-17.0	Phase	-13.7
	0.1	0.1	0.1	0.3	0.3	0.2	0.2	0.1	Ampl.	0.2
	500.1	183.9	242.7	482.3	482.1	207.3	484.0	42.9	Sbd box	482.3
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
E:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
E:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
E	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	4.68918405102E+02	Apriori delay (usec)	4.68043849511E+02	Resid mbdelay (usec)	-4.44408E-04	+/-	1.9E-04
Sband delay (usec)	4.68923746511E+02	Apriori clock (usec)	-2.6833683E+01	Resid sbdelay (usec)	8.79897E-01	+/-	1.5E-03
Phase delay (usec)	4.68043849069E+02	Apriori clockrate (us/s)	-7.2800002E-07	Resid phdelay (usec)	-4.42115E-07	+/-	6.5E-07
Delay rate (us/s)	6.66153141419E-02	Apriori rate (us/s)	6.66260172888E-02	Resid rate (us/s)	-1.07031E-05	+/-	3.1E-09
Total phase (deg)		Apriori accel (us/s/s)	-7.92188642572E-06	Resid phase (deg)	-13.7	+/-	20.1

ph/seg (deg) 61.1 48.2 Search (2048X32) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 80.4 84.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 24.4 28.4 Inc. seg. avg. 0.166 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 54.7 49.6 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  
 E: az 149.3 el 79.9 pa -25.5 X: az 174.9 el 74.1 pa -2.6 u,v (fr/asec) -522.627 -1015.342 ion window (TEC) 0.00 0.00  
 simultaneous interpolator

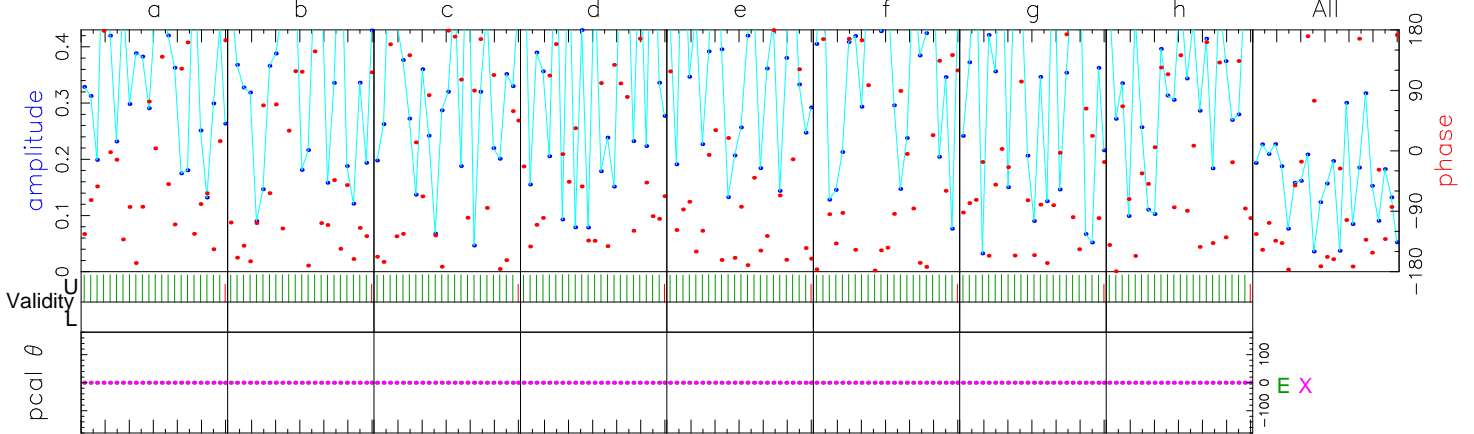


Fringe quality 0

SNR 6.1  
 Int time 354.589  
 Amp 0.143  
 Phase -133.9  
 PFD 2.9e-01  
 Delays (us)  
 SBD -0.830782  
 MBD -0.006608  
 Fringe rate (Hz)  
 0.663294  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

Exp. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190123  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-106.4	-144.2	-167.0	-113.6	-117.9	-167.1	-96.1	-151.8	Phase	-133.9
	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.1	Ampl.	0.1
	292.5	355.5	73.8	427.2	36.4	45.4	380.4	239.8	Sbd box	44.3
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
E:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
E:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
E	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	4.67209116050E+02	Apriori delay (usec)	4.68043849511E+02	Resid mbdelay (usec)	-6.60846E-03	+/-	1.8E-04
Sband delay (usec)	4.67213067261E+02	Apriori clock (usec)	-2.6833683E+01	Resid sbdelay (usec)	-8.30782E-01	+/-	1.4E-03
Phase delay (usec)	4.68043845193E+02	Apriori clockrate (us/s)	-7.2800002E-07	Resid phdelay (usec)	-4.31747E-06	+/-	6.1E-07
Delay rate (us/s)	6.66337174721E-02	Apriori rate (us/s)	6.66260172888E-02	Resid rate (us/s)	7.70018E-06	+/-	2.9E-09
Total phase (deg)	-63.0	Apriori accel (us/s/s)	-7.92188642572E-06	Resid phase (deg)	-133.9	+/-	18.9

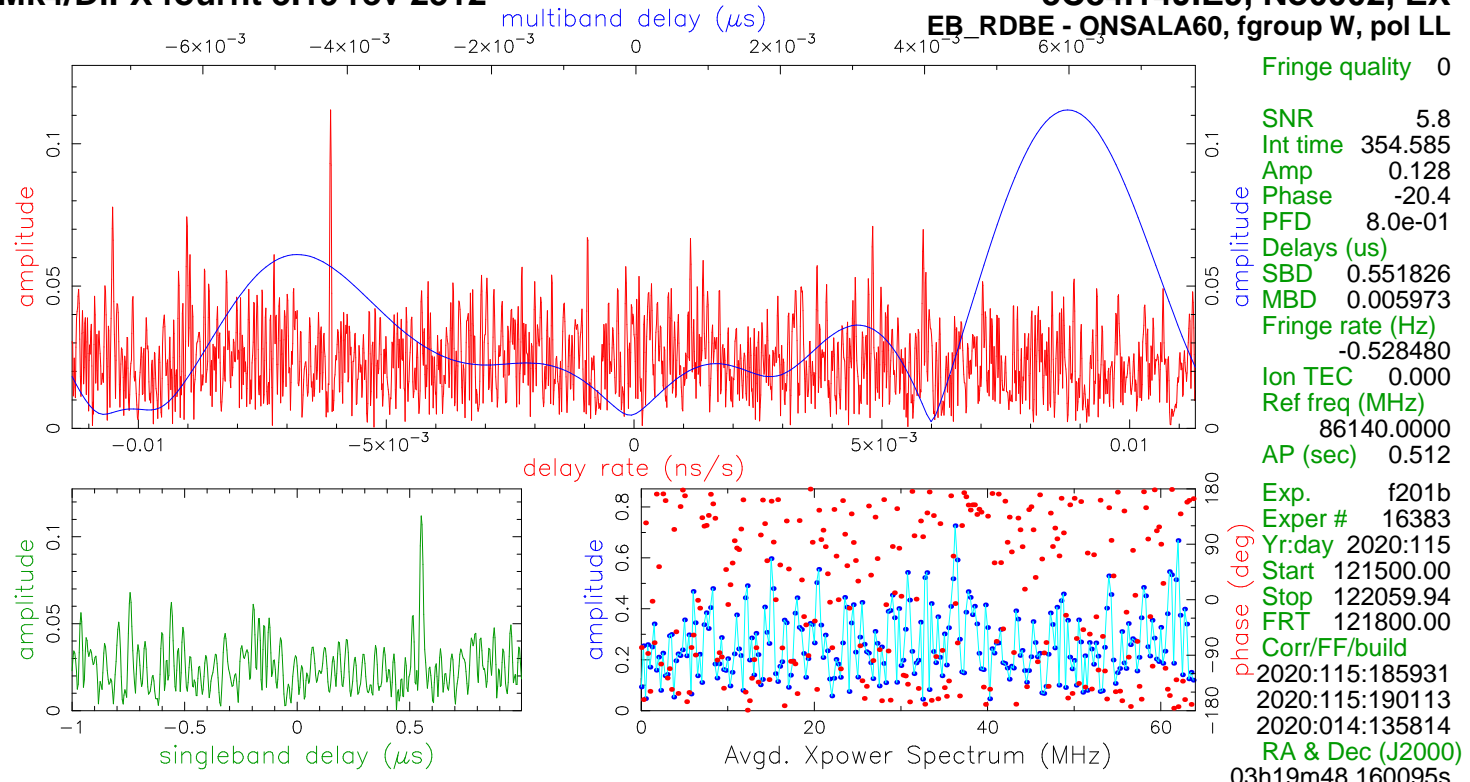
ph/seg (deg)	61.7	Theor.	45.3	Amplitude	0.143 +/- 0.024	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	72.4		79.1	Search (2048X32)	0.109	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	30.2		26.7	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	23.7		46.6	Inc. seg. avg.	0.151	Sample rate(MISamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.144	Data rate(Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

E: az 149.3 el 79.9 pa -25.5 X: az 174.9 el 74.1 pa -2.6 u,v (fr/asec) -522.627 -1015.342 simultaneous interpolator

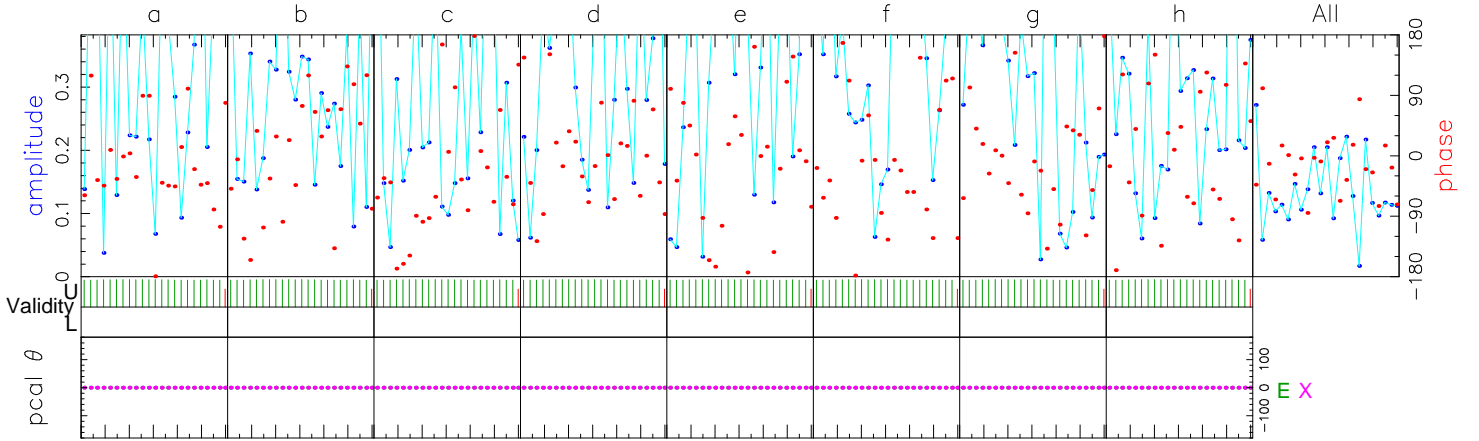
Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/EX..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/EX.W.39.14JIE9

Mk4/DiFX fourfit 3.19 rev 2512

3C84.14JIE9, No0002, EX  
EB\_RDBE - ONSALA60, fgroup W, pol LL



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



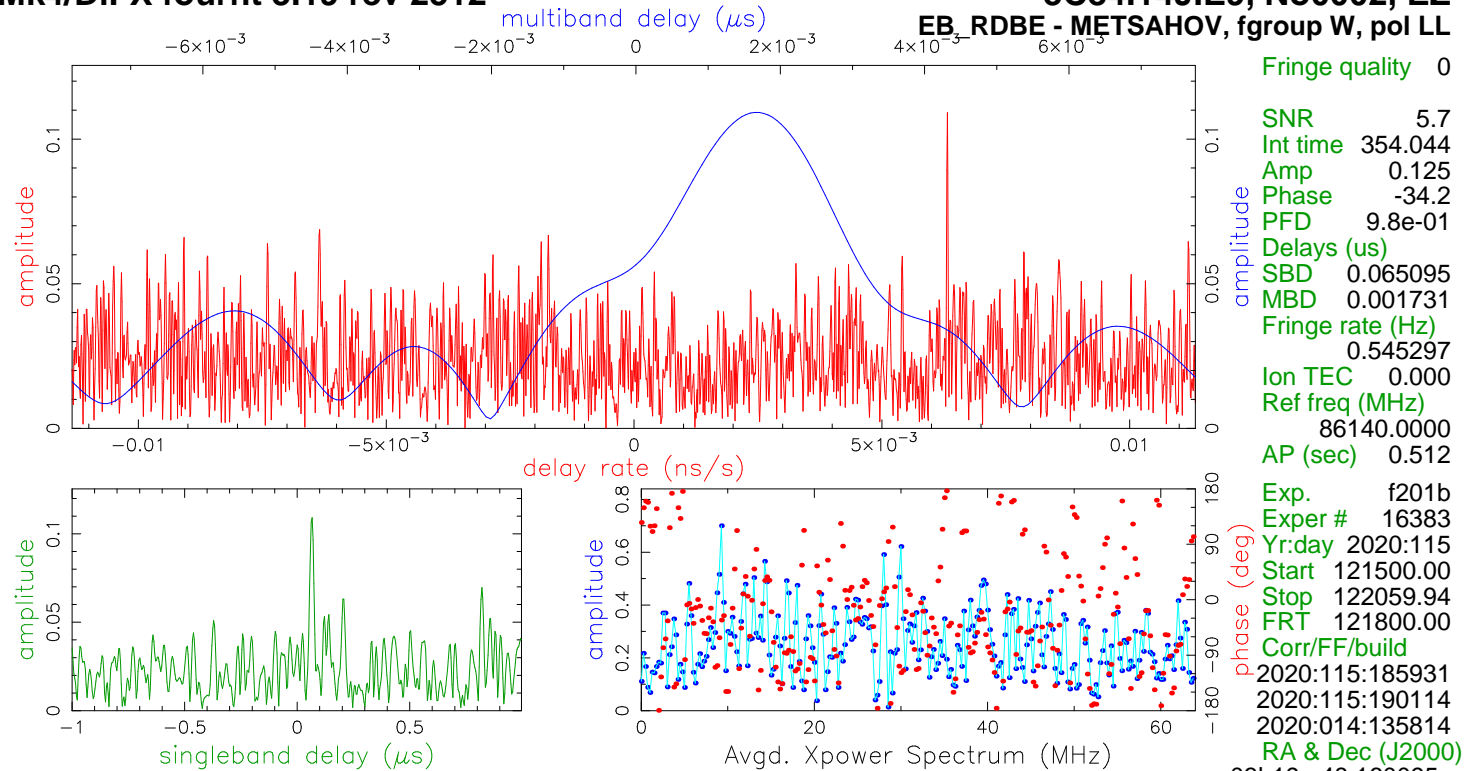
86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
-15.9	-1.2	-69.9	-2.0	10.5	-39.9	-21.3	-25.9	Phase	-20.4
0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.1	Ampl.	0.1
397.9	459.8	313.3	197.4	113.3	38.7	208.0	175.2	Sbd box	398.3
U/L 703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
E 1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X 1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
E:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
E:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
E 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X 1000	1000	1000	1000	1000	1000	1000	1000		
E W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	4.68596697153E+02		Apriori delay (usec)	4.68043849511E+02	Resid mbdelay (usec)	5.97264E-03	+/-	1.9E-04	
Sband delay (usec)	4.68595676011E+02		Apriori clock (usec)	0.108	Resid sbdelay (usec)	5.51826E-01	+/-	1.5E-03	
Phase delay (usec)	4.68043848853E+02		Apriori clockrate (us/s)	-7.2800002E-07	Resid phdelay (usec)	-6.58222E-07	+/-	6.4E-07	
Delay rate (us/s)	6.66198821633E-02		Apriori rate (us/s)	6.66260172888E-02	Resid rate (us/s)	-6.13513E-06	+/-	3.1E-09	
Total phase (deg)		50.5	Apriori accel (us/s/s)	-7.92188642572E-06	Resid phase (deg)	-20.4	+/-	19.7	

ph/seg (deg)	RMS 46.2	Theor. 47.3	Amplitude Search (2048X32)	0.128 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	54.8	82.6	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	27.5	27.9	Inc. seg. avg.	0.115	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	41.4	48.7	Inc. frq. avg.	0.125	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

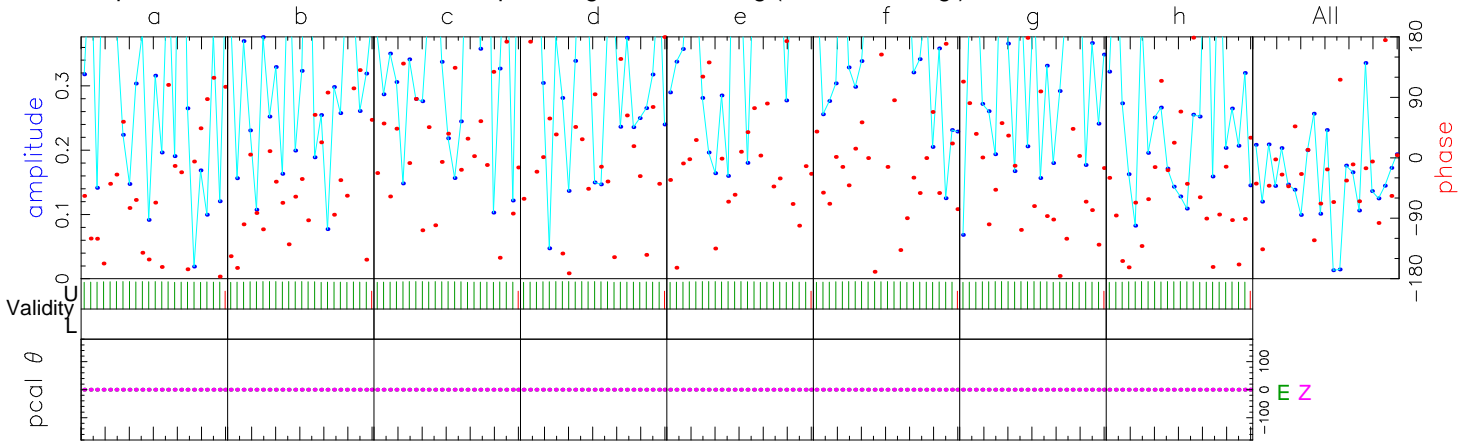
E: az 149.3 el 79.9 pa -25.5 X: az 174.9 el 74.1 pa -2.6 u,v (fr/asec) -522.627 -1015.342 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/EX..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/EX.W.8.14JIE9





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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-74.8	-77.2	2.5	-8.6	-12.5	-26.0	-25.4	-87.0	Phase	-34.2
	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.2	Ampl.	0.1
	257.2	291.0	466.1	138.7	274.1	218.3	367.6	508.8	Sbd box	273.7
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
E:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
E:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
E	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	9.80289821240E+02		Apriori delay (usec)		9.80225589813E+02		Resid mbdelay (usec)		1.73143E-03	+/- 1.9E-04
Sband delay (usec)	9.80290685063E+02		Apriori clock (usec)		1.3974104E+01		Resid sbdelay (usec)		6.50953E-02	+/- 1.5E-03
Phase delay (usec)	9.80225588710E+02		Apriori clockrate (us/s)		-2.1600000E-07		Resid phdelay (usec)		-1.10239E-06	+/- 6.5E-07
Delay rate (us/s)	1.92308209268E-01		Apriori rate (us/s)		1.92301878912E-01		Resid rate (us/s)		6.33036E-06	+/- 3.1E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.23449952164E-05		Resid phase (deg)		-34.2	+/- 20.2

	RMS	Theor.	Amplitude	0.125 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	60.9	48.5	Search (2048X32)	0.108	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	77.3	84.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	38.5	28.6	Inc. seg. avg.	0.132	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	39.4	50.0	Inc. frq. avg.	0.132	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

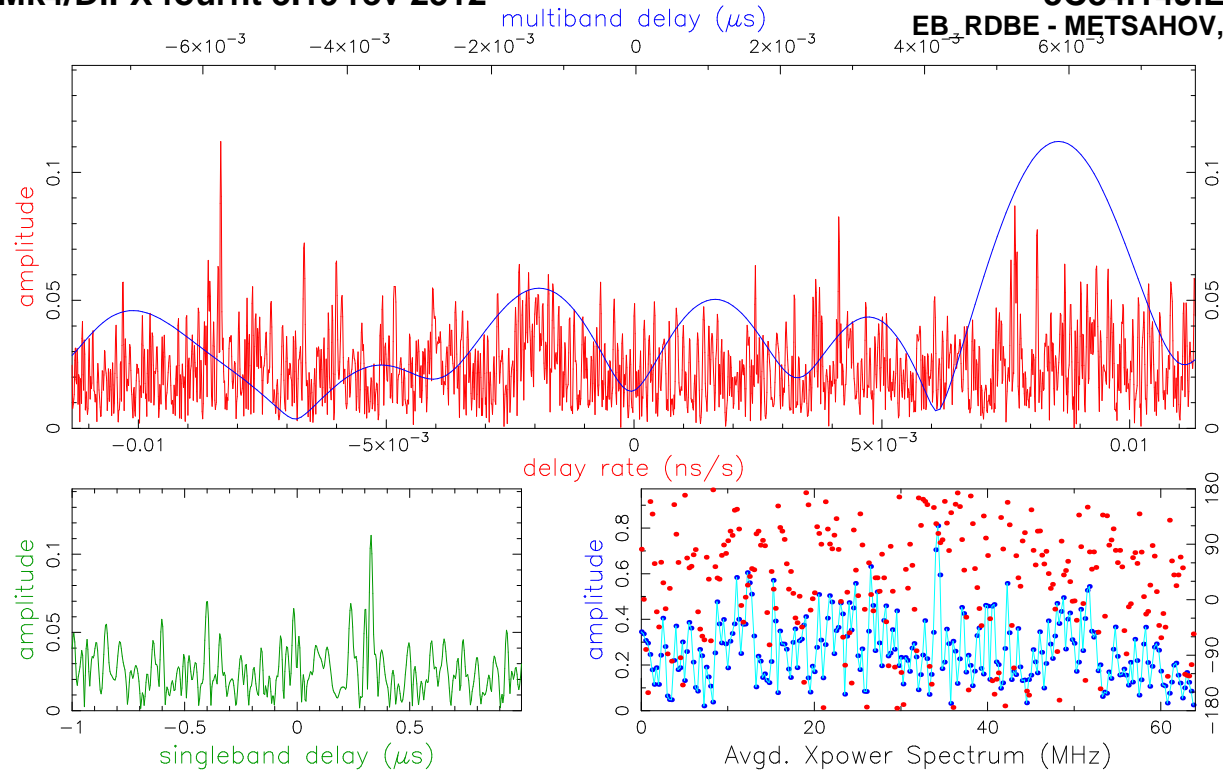
E: az 149.3 el 79.9 pa -25.5 Z: az 204.0 el 70.3 pa 17.3 u,v (fr/asec) -1491.939 -1483.864 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/EZ..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/EZ.W.10.14JIE9

Mk4/DiFX fourfit 3.19 rev 2512

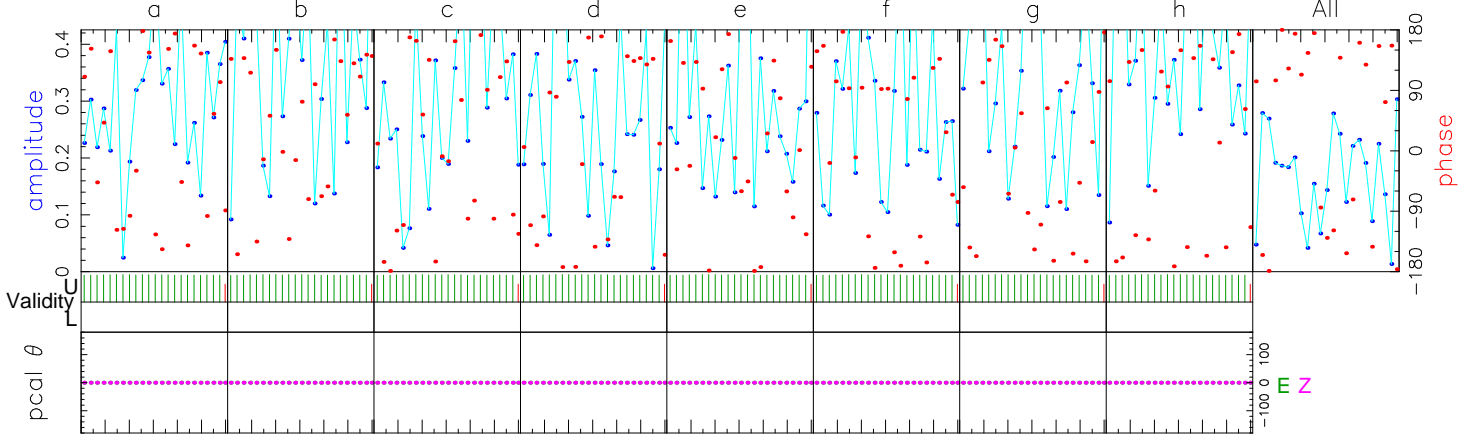
3C84.14JIE9, No0002, EZ

EB\_RDBE - METSAHOV, fgroup W, pol RR



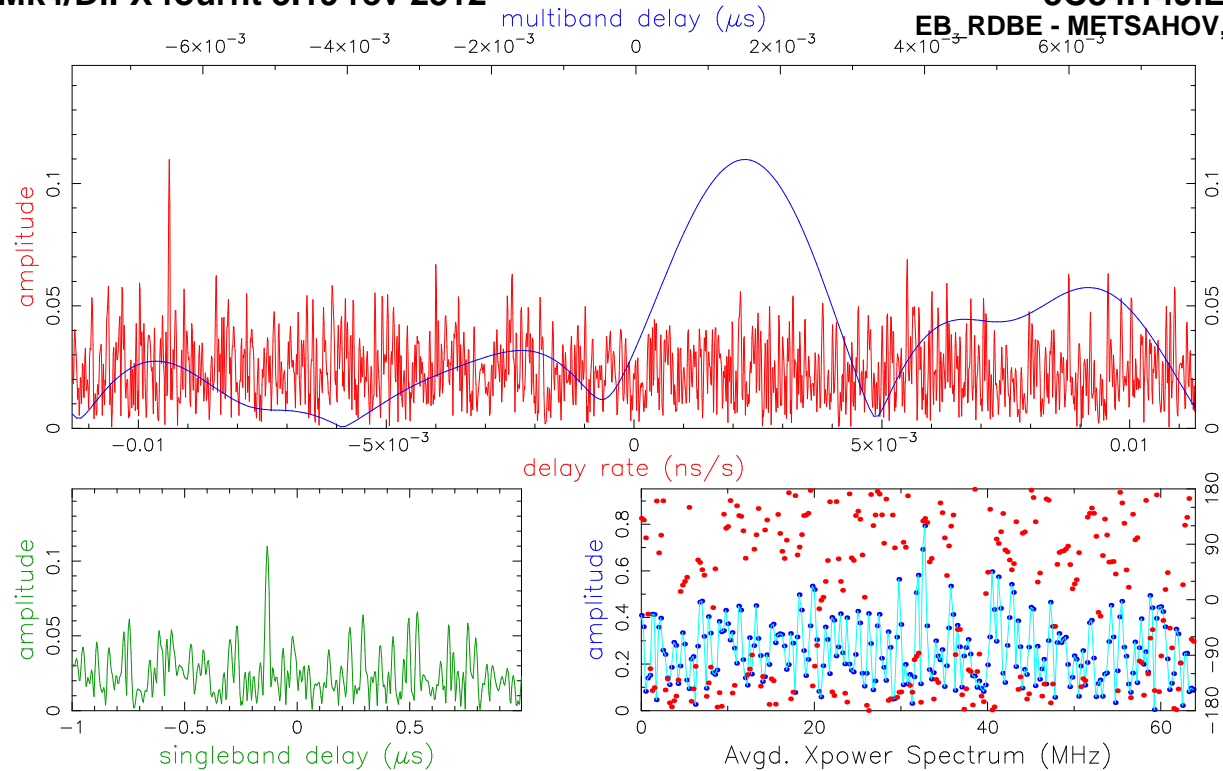
Fringe quality 0  
 SNR 5.8  
 Int time 354.048  
 Amp 0.142  
 Phase 173.8  
 PFD 8.5e-01  
 Delays (us)  
 SBD 0.327680  
 MBD 0.005849  
 Fringe rate (Hz)  
 -0.719153  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190117  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-157.2	143.0	-173.9	178.2	148.2	142.9	-152.2	174.8	Phase	173.8
	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	Ampl.	0.1
	279.4	335.4	295.0	471.9	43.2	387.2	318.1	340.7	Sbd box	340.9
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
E:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
E:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
E	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	9.80559563552E+02		Apriori delay (usec)		9.80225589813E+02		Resid mbdelay (usec)		5.84874E-03	+/- 1.9E-04
Sband delay (usec)	9.80553270063E+02		Apriori clock (usec)		1.3974104E+01		Resid sbdelay (usec)		3.27680E-01	+/- 1.5E-03
Phase delay (usec)	9.80225595416E+02		Apriori clockrate (us/s)		-2.1600000E-07		Resid phdelay (usec)		5.60374E-06	+/- 6.4E-07
Delay rate (us/s)	1.92293530261E-01		Apriori rate (us/s)		1.92301878912E-01		Resid rate (us/s)		-8.34865E-06	+/- 3.1E-09
Total phase (deg)	284.1		Apriori accel (us/s/s)		-1.23449952164E-05		Resid phase (deg)		173.8	+/- 19.8

ph/seg (deg) 54.1 47.6 Search (2048X32) 0.111 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 87.0 83.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 28.0 28.1 Inc. seg. avg. 0.159 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 49.8 49.0 Inc. frq. avg. 0.137 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 E: az 149.3 el 79.9 pa -25.5 Z: az 204.0 el 70.3 pa 17.3 u,v (fr/asec) -1491.939 -1483.864 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/EZ..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/EZ.W.19.14JIE9

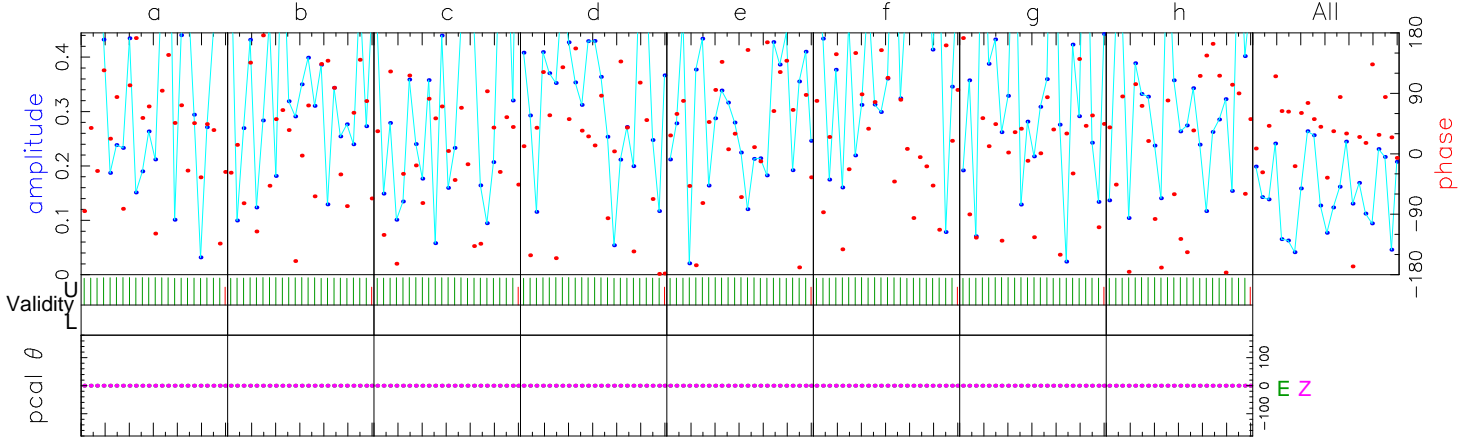


Fringe quality 0

SNR 5.7  
 Int time 354.044  
 Amp 0.148  
 Phase 47.4  
 PFD 9.8e-01  
 Delays (us)  
 SBD -0.132683  
 MBD 0.001512  
 Fringe rate (Hz)  
 -0.808712  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

Exp. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190120  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

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



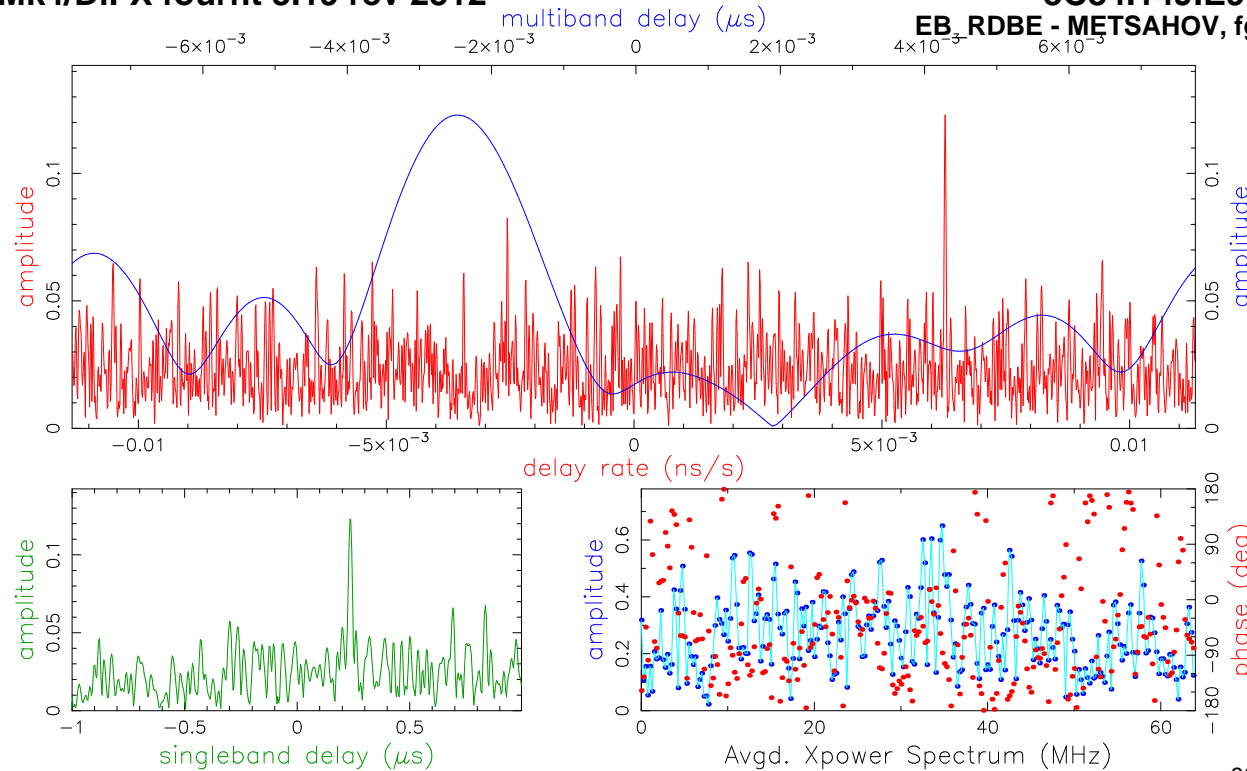
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	51.7	43.5	22.6	81.2	81.3	7.4	29.6	84.9	Phase	47.4
	0.2	0.1	0.2	0.2	0.1	0.2	0.3	0.1	Ampl.	0.1
	226.5	199.7	150.4	416.0	252.1	492.1	366.0	432.6	Sbd box	223.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
E:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
E:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
E	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	9.80086476962E+02		Apriori delay (usec)		9.80225589813E+02		Resid mbdelay (usec)		1.51215E-03	+/- 1.9E-04
Sband delay (usec)	9.80092907063E+02		Apriori clock (usec)		1.3974104E+01		Resid sbdelay (usec)		-1.32683E-01	+/- 1.5E-03
Phase delay (usec)	9.80225591343E+02		Apriori clockrate (us/s)		-2.1600000E-07		Resid phdelay (usec)		1.53009E-06	+/- 6.5E-07
Delay rate (us/s)	1.92292490564E-01		Apriori rate (us/s)		1.92301878912E-01		Resid rate (us/s)		-9.38835E-06	+/- 3.1E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.23449952164E-05		Resid phase (deg)		47.4	+/- 20.3

ph/seg (deg) 51.6 48.6 Search (2048X32) 0.107 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 73.3 84.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 32.3 28.7 Inc. seg. avg. 0.151 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 33.6 50.1 Inc. frq. avg. 0.148 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 E: az 149.3 el 79.9 pa -25.5 Z: az 204.0 el 70.3 pa 17.3 u,v (fr/asec) -1491.939 -1483.864 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/EZ..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/EZ.W.28.14JIE9

Mk4/DiFX fourfit 3.19 rev 2512

3C84.14JIE9, No0002, EZ

EB\_RDBE - METSAHOV, fgroup W, pol RL

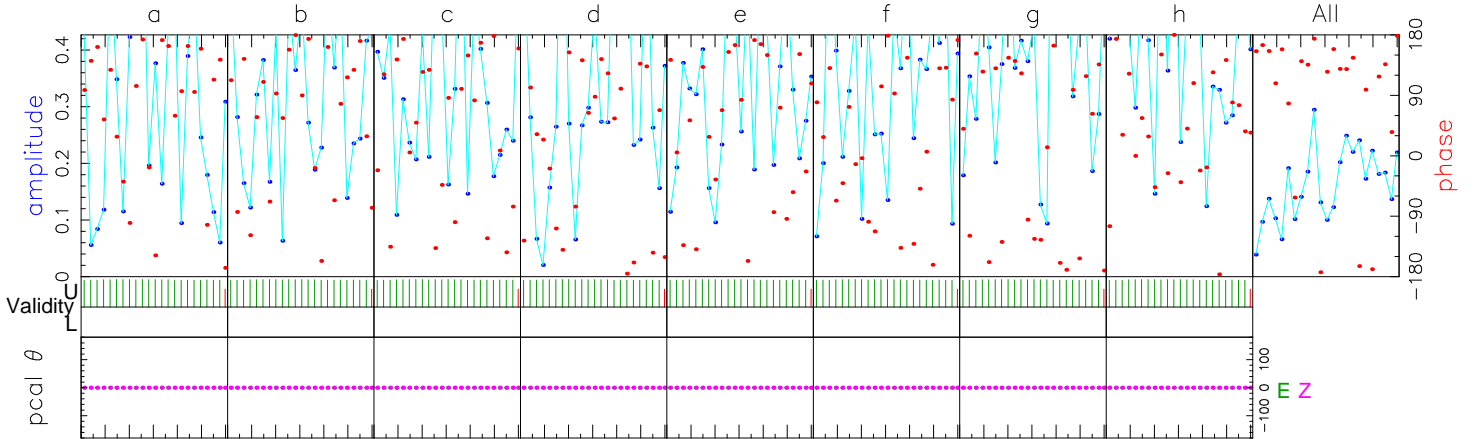


Fringe quality 0

SNR 6.4  
 Int time 354.048  
 Amp 0.142  
 Phase 145.3  
 PFD 3.4e-02  
 Delays (us)  
 SBD 0.236265  
 MBD -0.002485  
 Fringe rate (Hz)  
 0.541322  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

Exp. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190123  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	135.5	124.8	162.2	151.4	162.5	148.2	170.0	82.5	Phase	145.3
	0.2	0.1	0.1	0.2	0.1	0.3	0.2	0.2	Ampl.	0.1
	471.5	318.8	189.0	472.2	226.5	284.6	316.9	396.7	Sbd box	317.5
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
E:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
E:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
E	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
E	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	9.80457479936E+02		Apriori delay (usec)		9.80225589813E+02		Resid mbdelay (usec)		-2.48488E-03	+/- 1.7E-04
Sband delay (usec)	9.80461854563E+02		Apriori clock (usec)		1.3974104E+01		Resid sbdelay (usec)		2.36265E-01	+/- 1.3E-03
Phase delay (usec)	9.80225594498E+02		Apriori clockrate (us/s)		-2.1600000E-07		Resid phdelay (usec)		4.68572E-06	+/- 5.7E-07
Delay rate (us/s)	1.92308163129E-01		Apriori rate (us/s)		1.92301878912E-01		Resid rate (us/s)		6.28422E-06	+/- 2.8E-09
Total phase (deg)	255.6		Apriori accel (us/s/s)		-1.23449952164E-05		Resid phase (deg)		145.3	+/- 17.8

	RMS	Theor.	Amplitude	0.142 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	49.0	42.7	Search (2048X32)	0.117	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	57.9	74.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	30.8	25.2	Inc. seg. avg.	0.144	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	45.7	44.0	Inc. frq. avg.	0.143	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
						ion window (TEC) 0.00 0.00

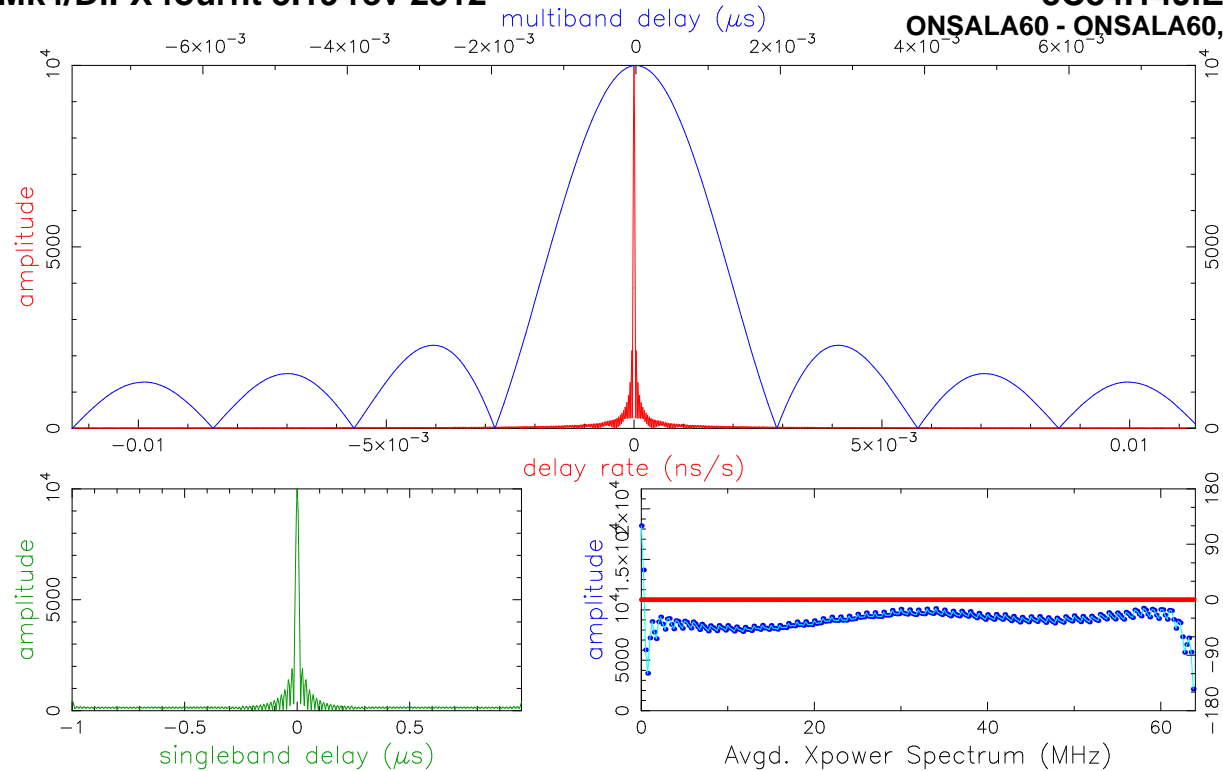
E: az 149.3 el 79.9 pa -25.5 Z: az 204.0 el 70.3 pa 17.3 u,v (fr/asec) -1491.939 -1483.864 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/EZ..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/EZ.W.38.14JIE9

Mk4/DiFX fourfit 3.19 rev 2512

3C84.14JIE9, No0002, XX

ONŞALA60 - ONŞALA60, fgroup W, pol RR

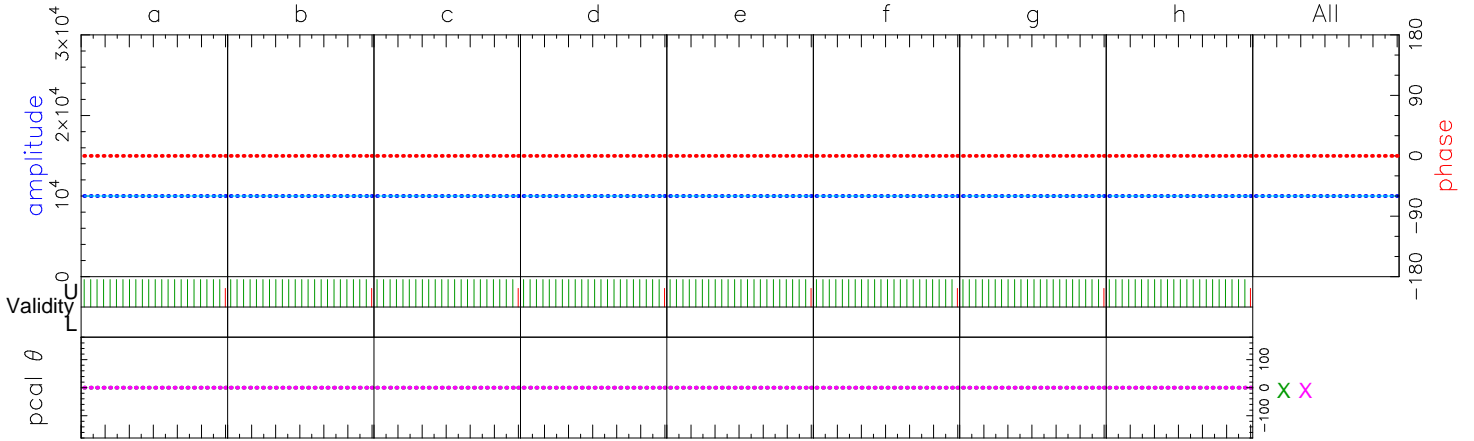


Fringe quality 9

SNR 518773.1  
 Int time 359.882  
 Amp 10000.001  
 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. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190116  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

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

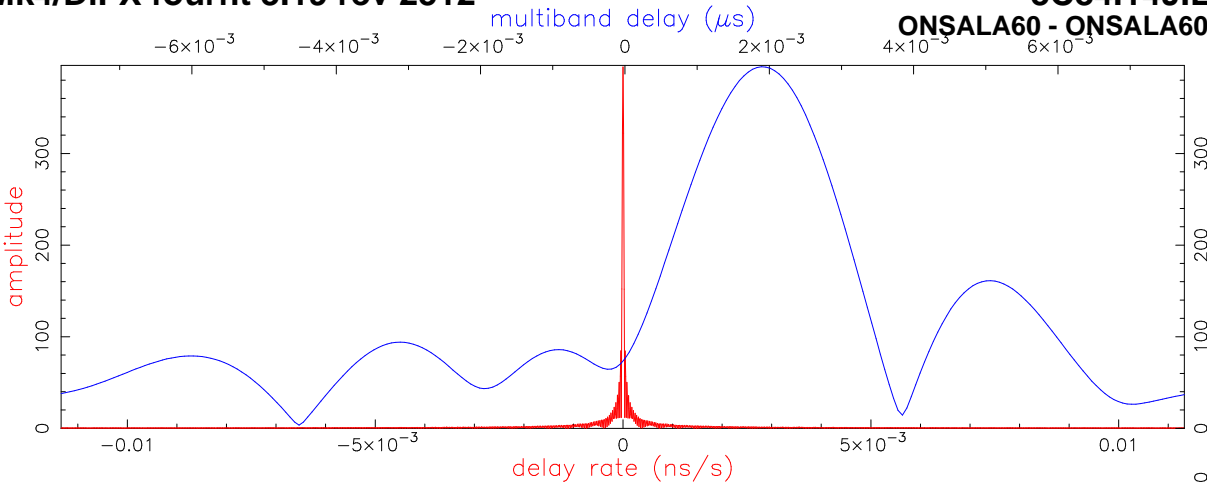


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	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	+/-	2.1E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.7E-08
Phase delay (usec)	1.82490322058E-19	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.82490E-19	+/-	7.1E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.4E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

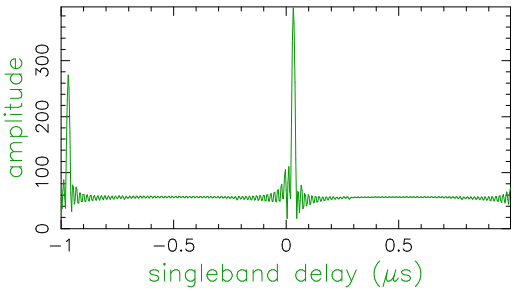
ph/seg (deg)	0.0	RMS	Theor.	Amplitude	10000.001 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.0	0.0	0.0	Search (2048X32)	10000.001	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	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.	10000.001	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

X: az 174.9 el 74.1 pa -2.6 X: az 174.9 el 74.1 pa -2.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/XX..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/XX.W.15.14JIE9

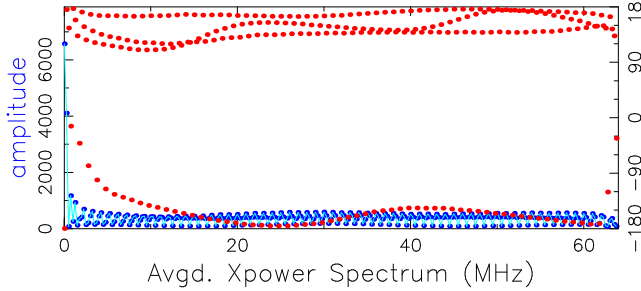


Fringe quality 7

SNR 20550.3  
 Int time 359.882  
 Amp 396.133  
 Phase 152.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.032000  
 MBD 0.001948  
 Fringe rate (Hz)  
 0.000018  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

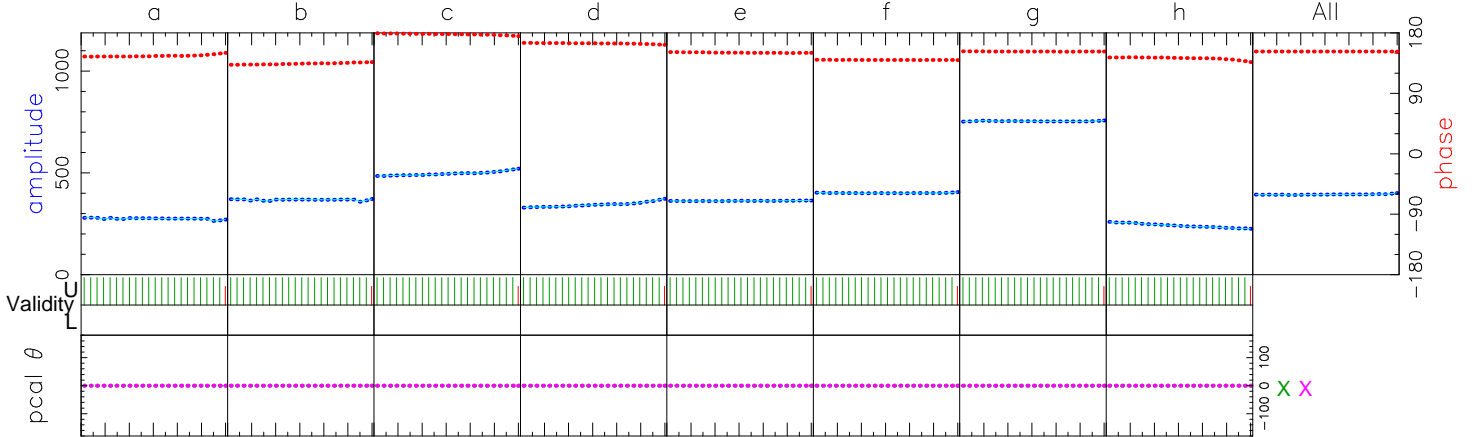


delay rate (ns/s)



Exp. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190119  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	145.8	134.1	177.8	164.1	150.5	139.6	152.2	142.1	Phase	152.2
	275.7	367.8	496.9	344.4	362.8	401.6	754.1	241.7	Ampl.	405.6
	264.0	266.1	265.3	264.9	265.7	265.5	264.9	265.2	Sbd box	265.2
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

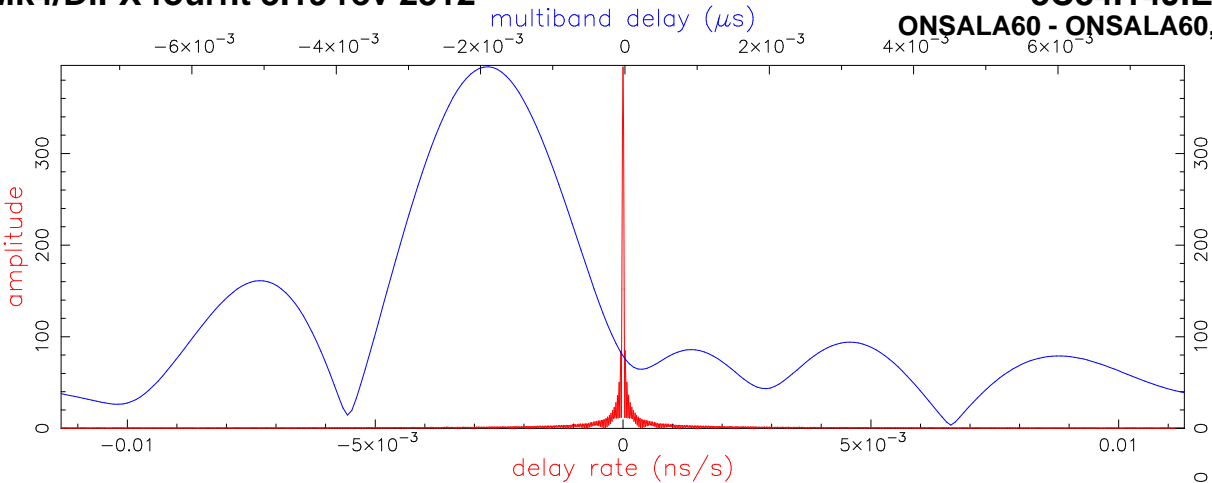
Group delay (usec)(sbd)	3.319800000000E-02	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	1.94800E-03	+/-	5.3E-08
Sband delay (usec)	3.200000000000E-02	Apriori clock (usec)	0.000000000000E+00	Resid sbdelay (usec)	3.20000E-02	+/-	4.2E-07
Phase delay (usec)	4.90776300249E-06	Apriori clockrate (us/s)	0.000000000000E+00	Resid phdelay (usec)	4.90776E-06	+/-	1.8E-10
Delay rate (us/s)	2.13275843495E-10	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	2.13276E-10	+/-	8.7E-13
Total phase (deg)	152.2	Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	152.2	+/-	0.0

ph/seg (deg)	0.1	0.0	Amplitude	396.133 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	0.7	0.0	Search (2048X32)	394.306	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	15.4	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	38.0	0.0	Inc. seg. avg.	394.400	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
			Inc. frq. avg.	405.626	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

X: az 174.9 el 74.1 pa -2.6 X: az 174.9 el 74.1 pa -2.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/XX..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/XX.W.25.14JIE9

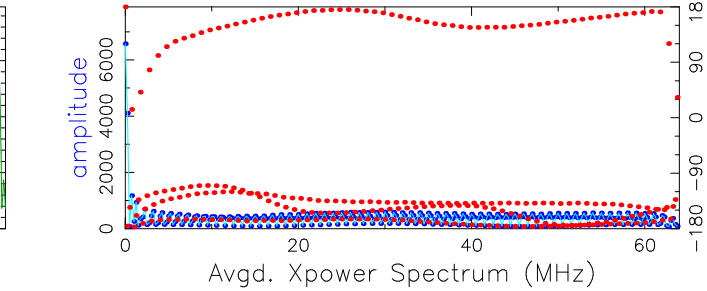
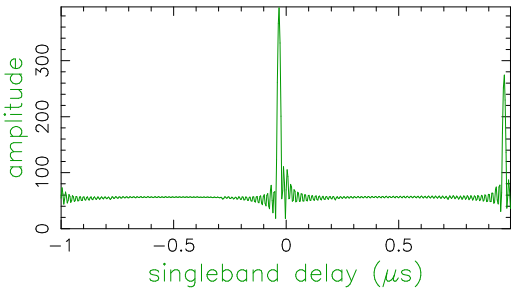
Mk4/DiFX fourfit 3.19 rev 2512

3C84.14JIE9, No0002, XX  
 ONŞALA60 - ONŞALA60, fgroup W, pol RL



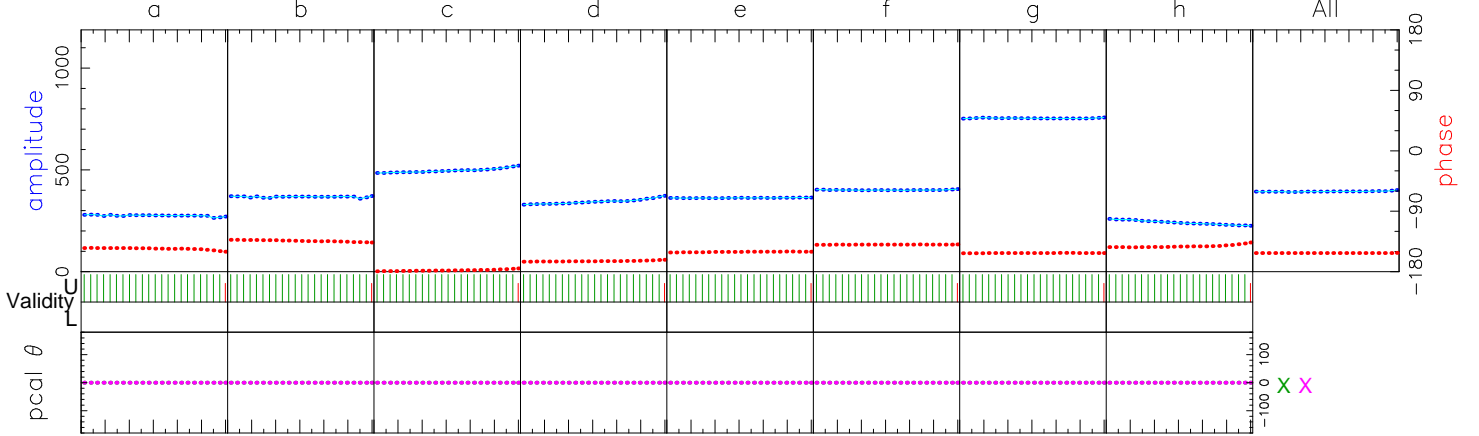
Fringe quality 7

SNR 20550.3  
 Int time 359.882  
 Amp 396.133  
 Phase -152.2  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.032000  
 MBD -0.001948  
 Fringe rate (Hz)  
 -0.000018  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190122  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

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

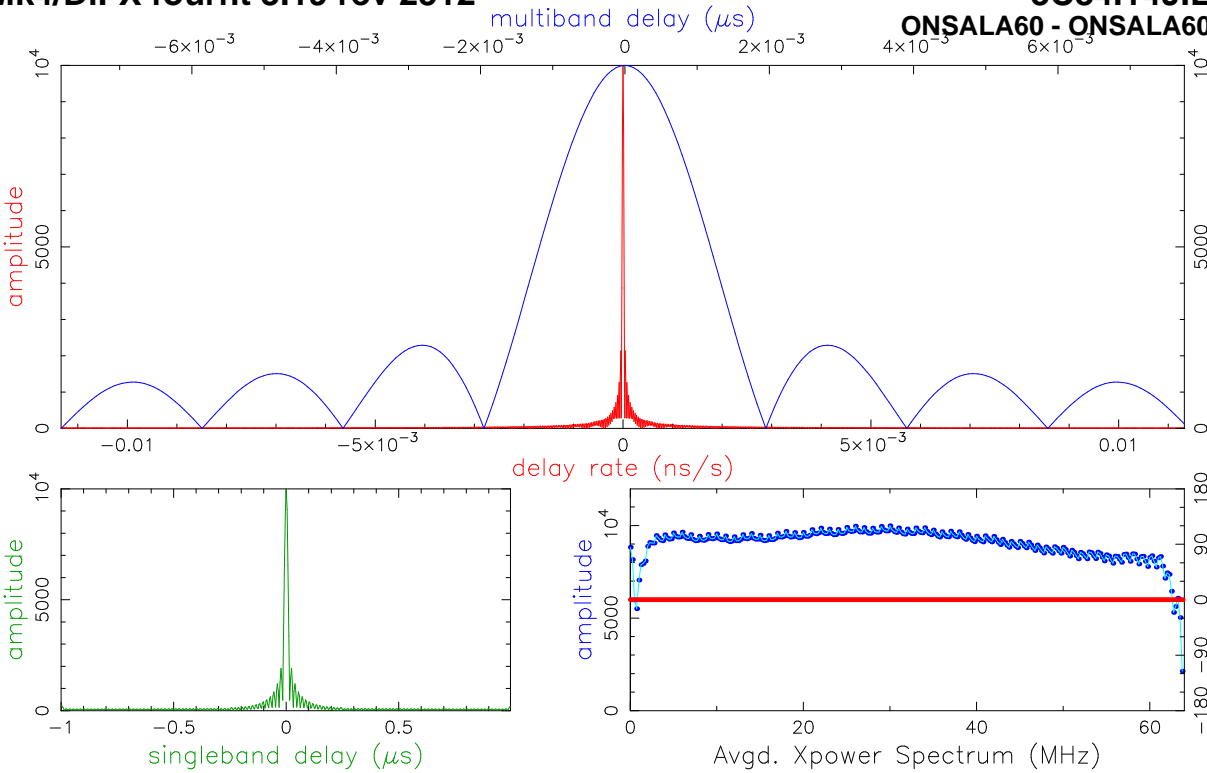


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-145.8	-134.1	-177.8	-164.1	-150.5	-139.6	-152.2	-142.1	Phase	-152.2
	275.7	367.8	496.9	344.4	362.8	401.6	754.1	241.7	Ampl.	405.6
	250.0	247.9	248.7	249.1	248.3	248.5	249.1	248.8	Sbd box	248.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
X	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) -3.31980000000E-02 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) -1.94800E-03 +/- 5.3E-08  
 Sband delay (usec) -3.20000000000E-02 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) -3.20000E-02 +/- 4.2E-07  
 Phase delay (usec) -4.90776300250E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -4.90776E-06 +/- 1.8E-10  
 Delay rate (us/s) -2.13275843495E-10 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -2.13276E-10 +/- 8.7E-13  
 Total phase (deg) -152.2 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) -152.2 +/- 0.0

RMS Theor. Amplitude 396.133 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.1 0.0 Search (2048X32) 394.306 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 0.7 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 15.4 0.0 Inc. seg. avg. 394.400 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 38.0 0.0 Inc. frq. avg. 405.626 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

X: az 174.9 el 74.1 pa -2.6 X: az 174.9 el 74.1 pa -2.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/XX..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/XX.W.34.14JIE9

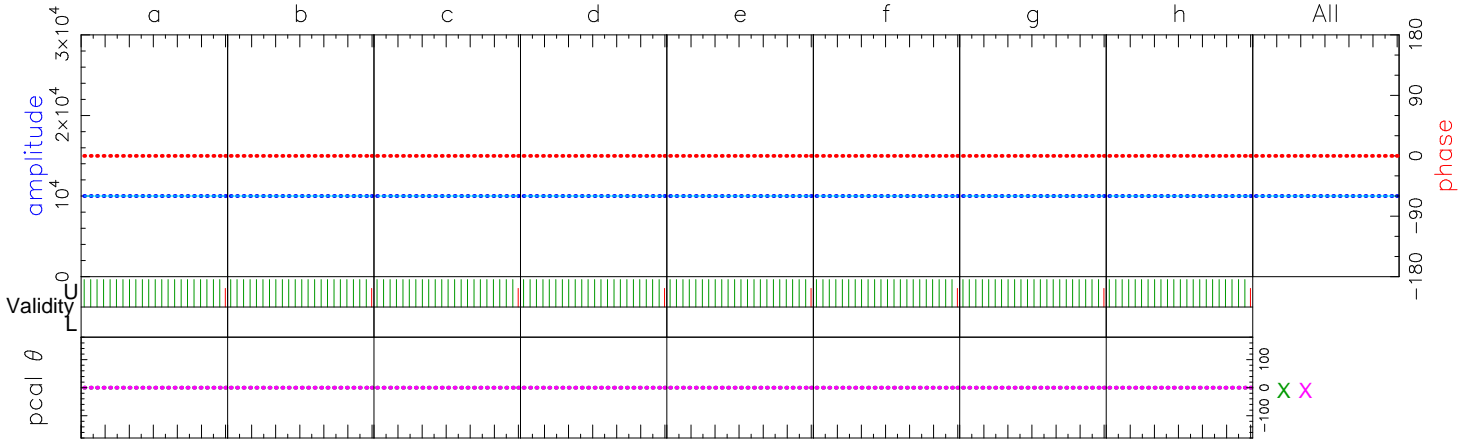


Fringe quality 9

SNR 518773.1  
 Int time 359.882  
 Amp 10000.001  
 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. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190113  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
X	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	10000.0
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Mani PC	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
									Chan ids	
									Tracks	
									Chan ids	
									Tracks	

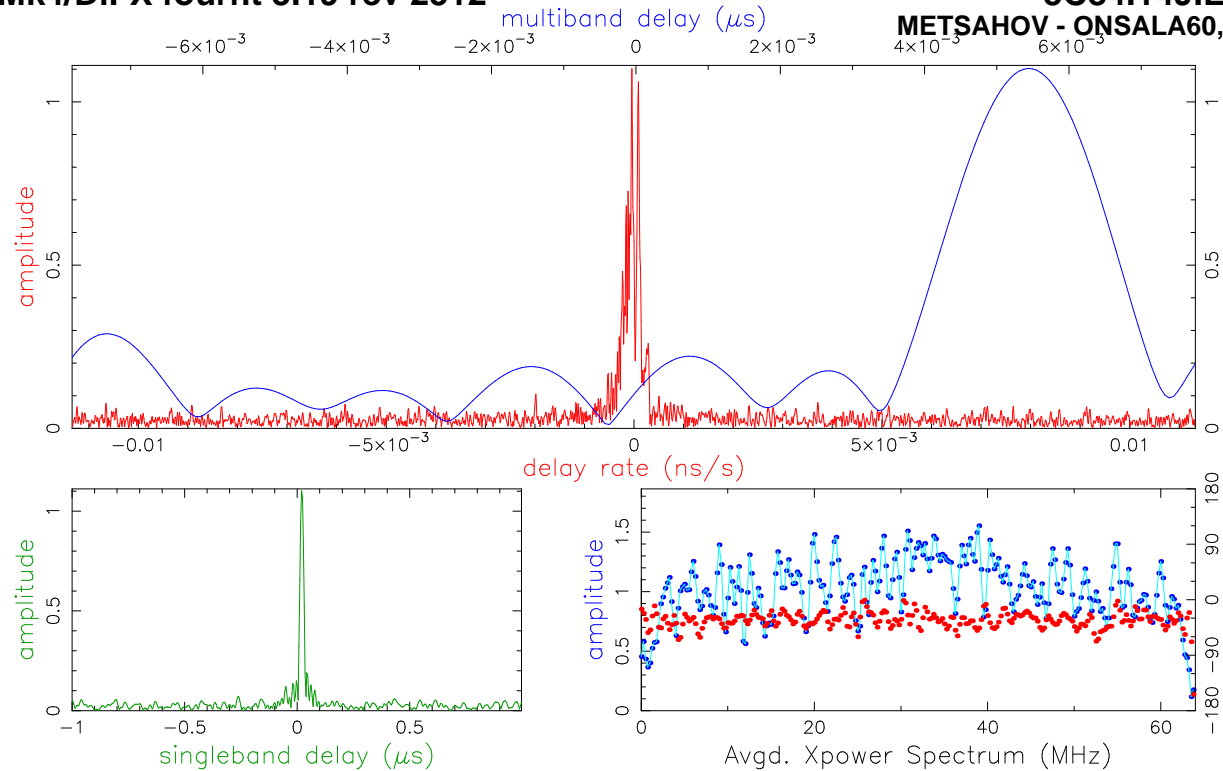
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.1E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.7E-08
Phase delay (usec)	-1.74282347734E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.74282E-20	+/-	7.1E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.4E-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	10000.001 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.0	0.0	0.0	Search (2048X32)	10000.001	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.	10000.001	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

X: az 174.9 el 74.1 pa -2.6      X: az 174.9 el 74.1 pa -2.6      u,v (fr/asec) 0.000 0.000      simultaneous interpolator

Control file: cf\_1234\_gmva    Input file: /Exps/f201b/FRINGE/1234/No0002/XX..14JIE9    Output file: /Exps/f201b/FRINGE/1234/No0002/XX.W.6.14JIE9

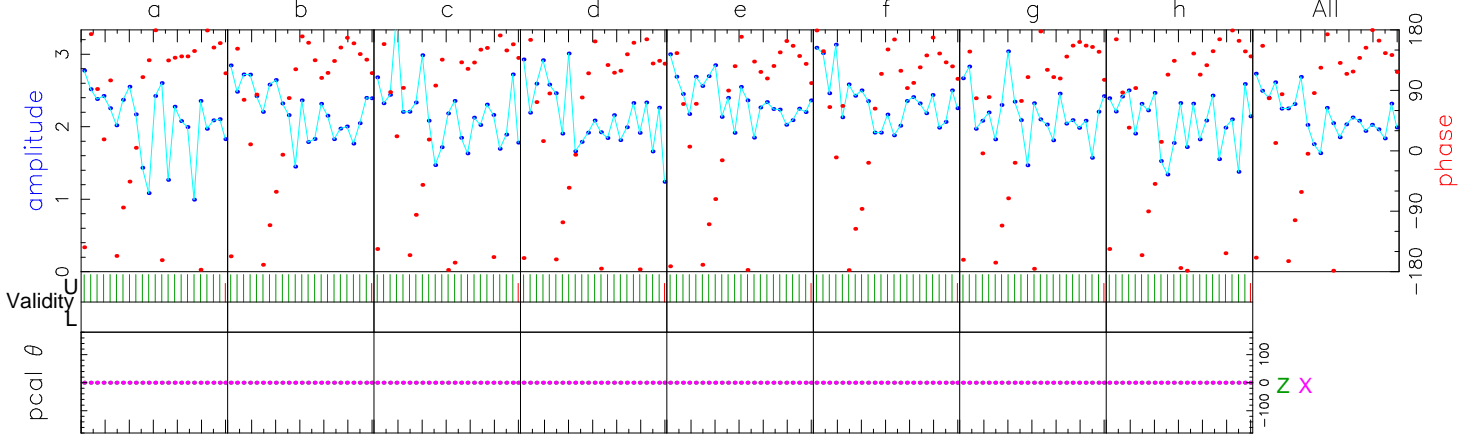




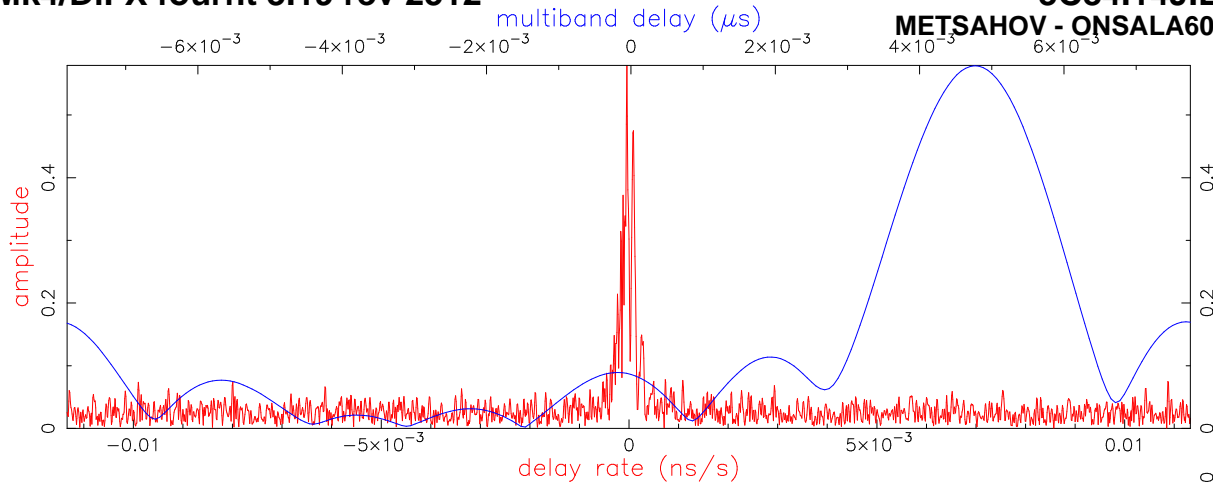
Fringe quality 5

SNR 57.6  
 Int time 359.253  
 Amp 1.112  
 Phase 143.9  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.020769  
 MBD 0.005479  
 Fringe rate (Hz)  
 -0.003826  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190117  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

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

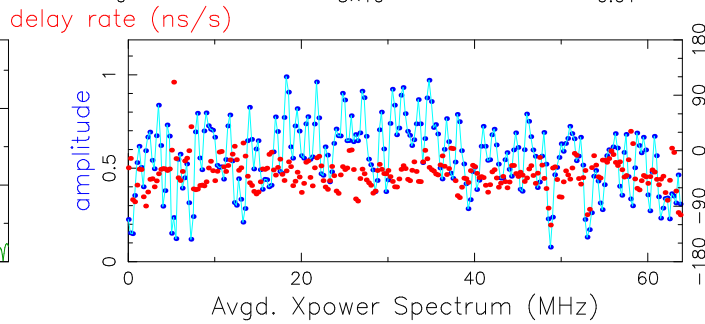
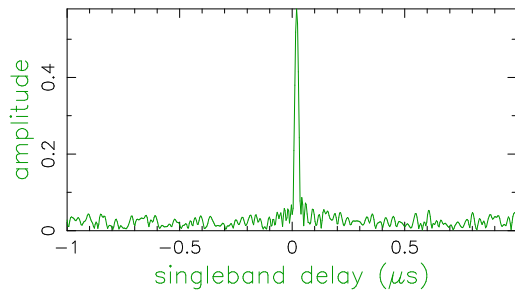


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-5.12160636699E+02									
Sband delay (usec)	-5.12160971802E+02									
Phase delay (usec)	-5.12181735660E+02									
Delay rate (us/s)	-1.25675906035E-01									
Total phase (deg)			104.5							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal $\theta$										
Chan ids										
Tracks										
Chan ids										
Tracks										
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								
simultaneous interpolator										



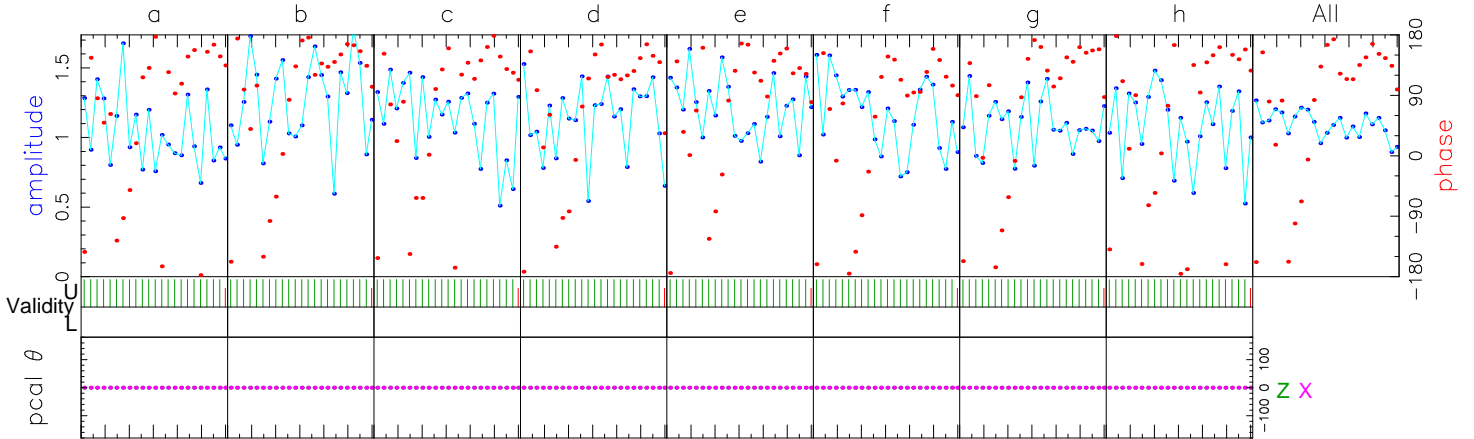
Fringe quality 7

SNR 30.0  
 Int time 359.253  
 Amp 0.579  
 Phase 136.8  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.019971  
 MBD 0.004776  
 Fringe rate (Hz)  
 -0.003757  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190121  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

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

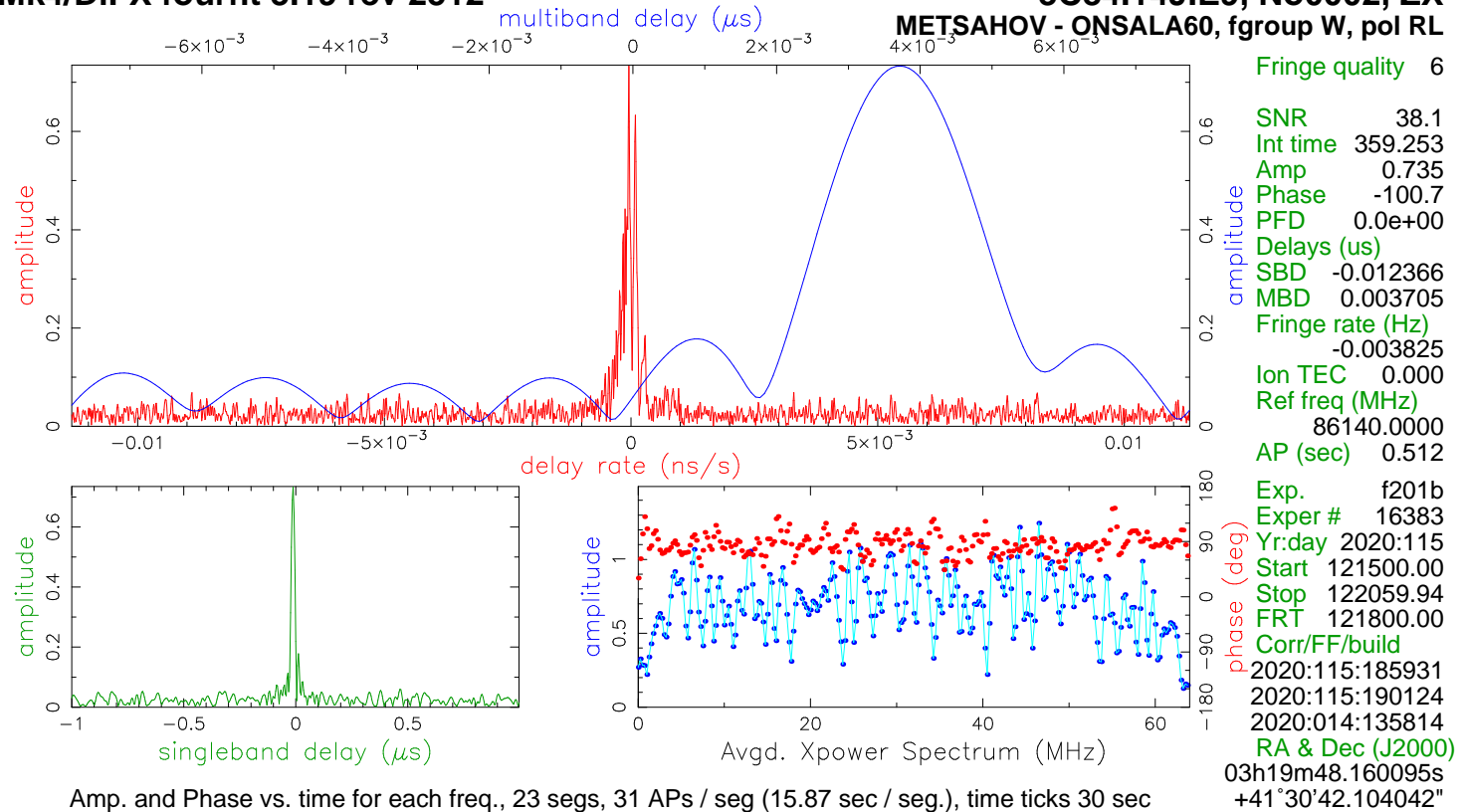


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	144.5	141.2	137.2	133.7	125.3	122.1	142.2	151.5	Phase	136.8
	0.5	0.7	0.6	0.6	0.6	0.6	0.7	0.5	Ampl.	0.6
	262.1	262.1	262.2	262.0	262.1	262.4	262.4	261.8	Sbd box	262.1
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

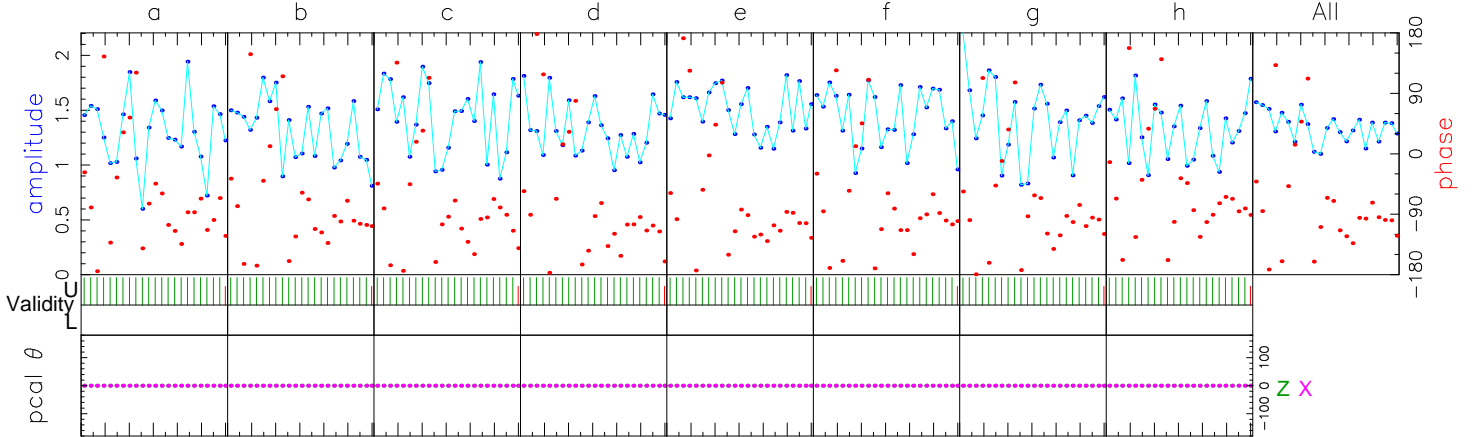
Group delay (usec)(sbd) -5.12161339043E+02 Apriori delay (usec) -5.12181740302E+02 Resid mbdelay (usec) 4.77626E-03 +/- 3.6E-05  
 Sband delay (usec) -5.12161769552E+02 Apriori clock (usec) -4.0807789E+01 Resid sbdelay (usec) 1.99708E-02 +/- 2.9E-04  
 Phase delay (usec) -5.12181735890E+02 Apriori clockrate (us/s) -5.1200000E-07 Resid phdelay (usec) 4.41230E-06 +/- 1.2E-07  
 Delay rate (us/s) -1.25675905236E-01 Apriori rate (us/s) -1.25675861623E-01 Resid rate (us/s) -4.36131E-08 +/- 5.9E-10  
 Total phase (deg) 97.4 Apriori accel (us/s/s) 4.42310879070E-06 Resid phase (deg) 136.8 +/- 3.8

RMS Theor. Amplitude 0.579 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 65.5 9.2 Search (2048X32) 0.575 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 90.8 16.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 10.7 5.4 Inc. seg. avg. 1.083 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 12.9 9.4 Inc. frq. avg. 0.583 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

Z: az 204.0 el 70.3 pa 17.3 X: az 174.9 el 74.1 pa -2.6 u,v (fr/asec) 969.312 468.522 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/ZX..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/ZX.W.30.14JIE9

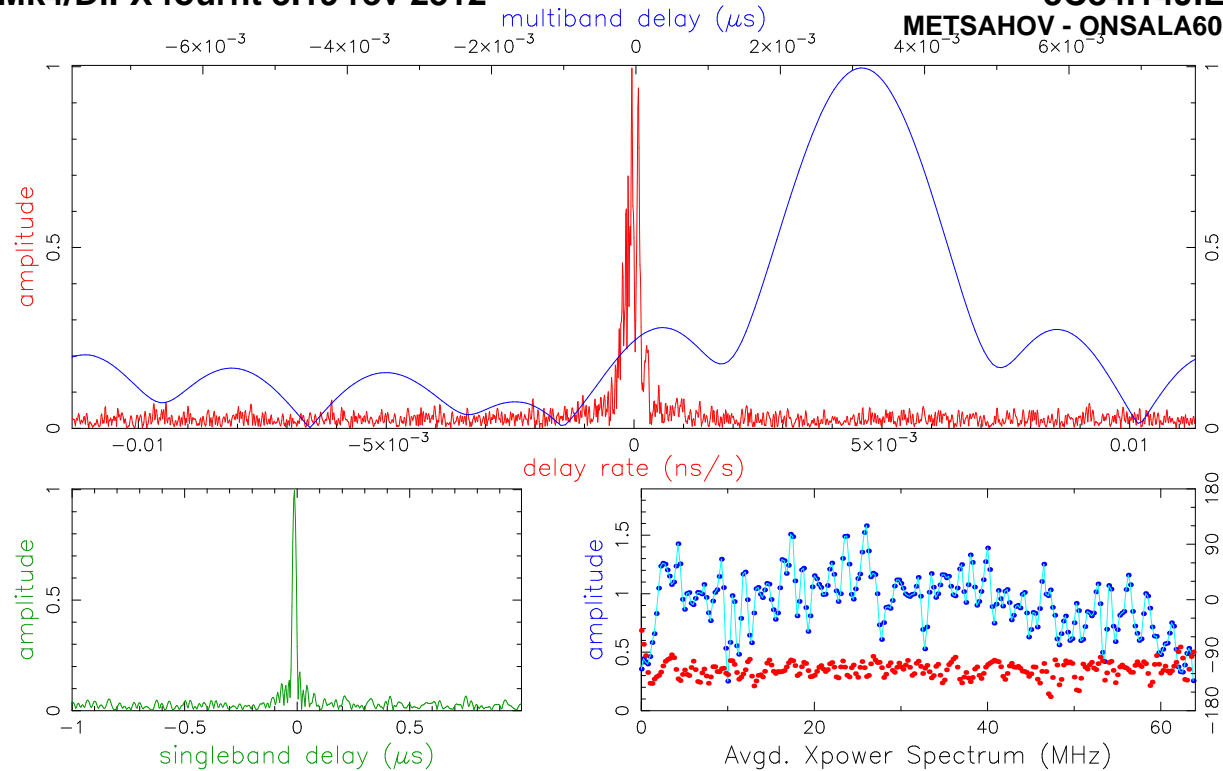


Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-85.0	-100.5	-106.3	-115.3	-109.6	-101.9	-99.2	-86.1	Phase	-100.7
	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.7	Ampl.	0.7
	253.7	253.3	253.7	253.7	254.0	253.7	254.2	254.1	Sbd box	253.8
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.12193660731E+02		Apriori delay (usec)		-5.12181740302E+02		Resid mbdelay (usec)		3.70457E-03	+/- 2.8E-05
Sband delay (usec)	-5.12194106802E+02		Apriori clock (usec)		-4.0807789E+01		Resid sbdelay (usec)		-1.23665E-02	+/- 2.3E-04
Phase delay (usec)	-5.12181743550E+02		Apriori clockrate (us/s)		-5.1200000E-07		Resid phdelay (usec)		-3.24840E-06	+/- 9.7E-08
Delay rate (us/s)	-1.25675906022E-01		Apriori rate (us/s)		-1.25675861623E-01		Resid rate (us/s)		-4.43989E-08	+/- 4.7E-10
Total phase (deg)			Apriori accel (us/s/s)		4.42310879070E-06		Resid phase (deg)		-100.7	+/- 3.0

	RMS	Theor.	Amplitude	0.735 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	65.4	7.2	Search (2048X32)	0.722	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	85.2	12.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	11.5	4.3	Inc. seg. avg.	1.337	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	6.6	7.4	Inc. frq. avg.	0.742	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

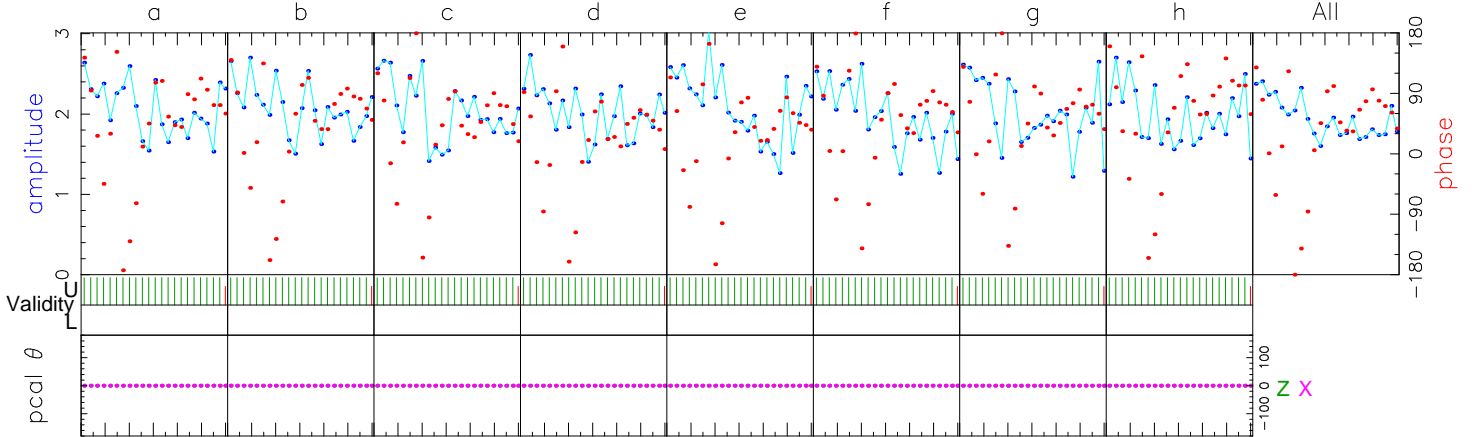


Fringe quality 4

SNR 52.0  
 Int time 359.253  
 Amp 1.004  
 Phase 63.8  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.012830  
 MBD 0.003101  
 Fringe rate (Hz)  
 -0.003787  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512

Exp. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190114  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

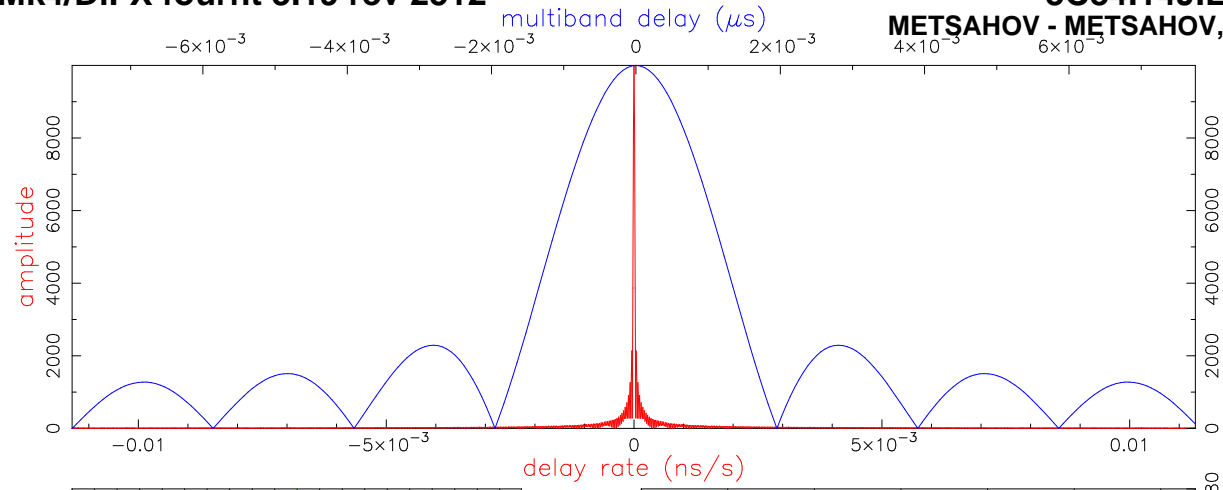
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	79.0	70.5	60.2	38.4	48.9	65.3	59.4	90.8	Phase	63.8
	1.0	1.0	1.1	1.1	1.0	1.0	1.1	1.0	Ampl.	1.0
	253.4	253.3	253.9	253.4	254.3	253.9	254.0	254.1	Sbd box	253.7
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-5.12194264043E+02	Apriori delay (usec)	-5.12181740302E+02	Resid mbdelay (usec)	3.10126E-03	+/-	2.1E-05
Sband delay (usec)	-5.12194570302E+02	Apriori clock (usec)	-4.0807789E+01	Resid sbdelay (usec)	-1.28300E-02	+/-	1.7E-04
Phase delay (usec)	-5.12181738244E+02	Apriori clockrate (us/s)	-5.1200000E-07	Resid phdelay (usec)	2.05783E-06	+/-	7.1E-08
Delay rate (us/s)	-1.25675905581E-01	Apriori rate (us/s)	-1.25675861623E-01	Resid rate (us/s)	-4.39582E-08	+/-	3.4E-10
Total phase (deg)		Apriori accel (us/s/s)	4.42310879070E-06	Resid phase (deg)	63.8	+/-	2.2

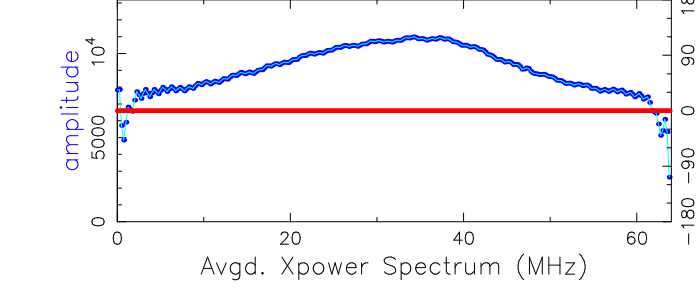
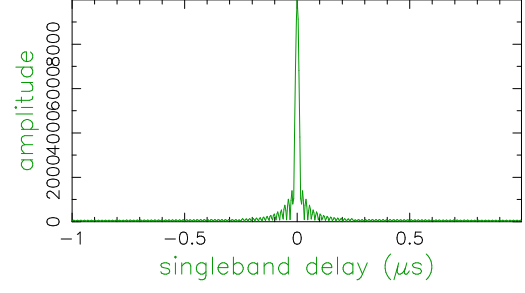
ph/seg (deg)	RMS 66.6	Theor. 5.3	Amplitude Search (2048X32)	1.004 +/- 0.019	0.977	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	97.6	9.2	Interp.	0.000	0.977	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	17.8	3.1	Inc. seg. avg.	1.947	1.947	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	5.3	5.4	Inc. frq. avg.	1.033	1.033	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00



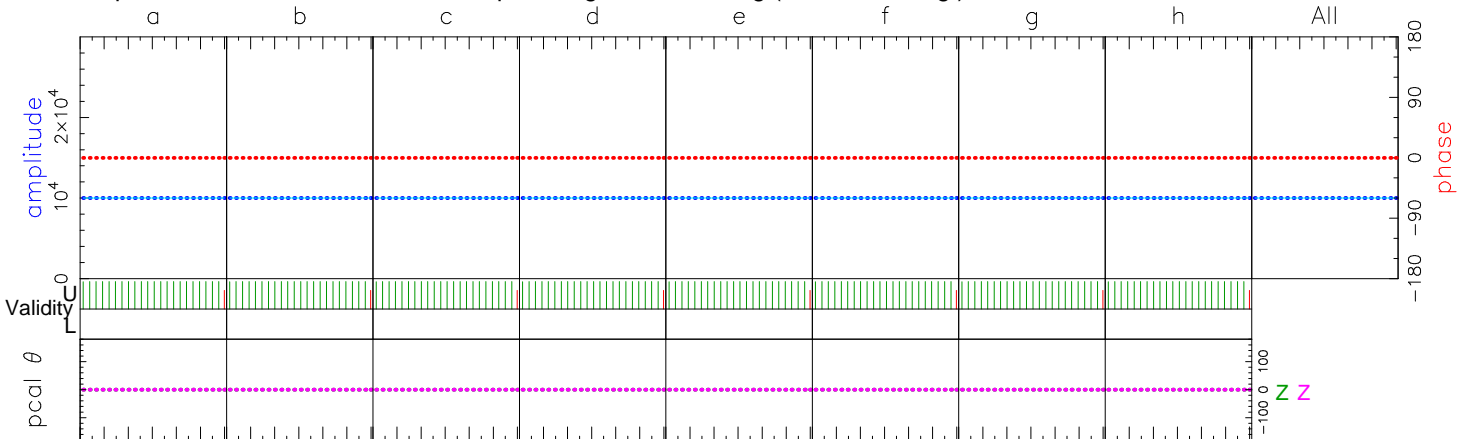
Fringe quality 9

SNR 518319.8  
 Int time 359.253  
 Amp 9999.996  
 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. f201b  
 Yr:day 16383  
 Start 2020:115  
 Stop 2020:115:185931  
 FRT 2020:115:190117  
 2020:014:135814  
 RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"



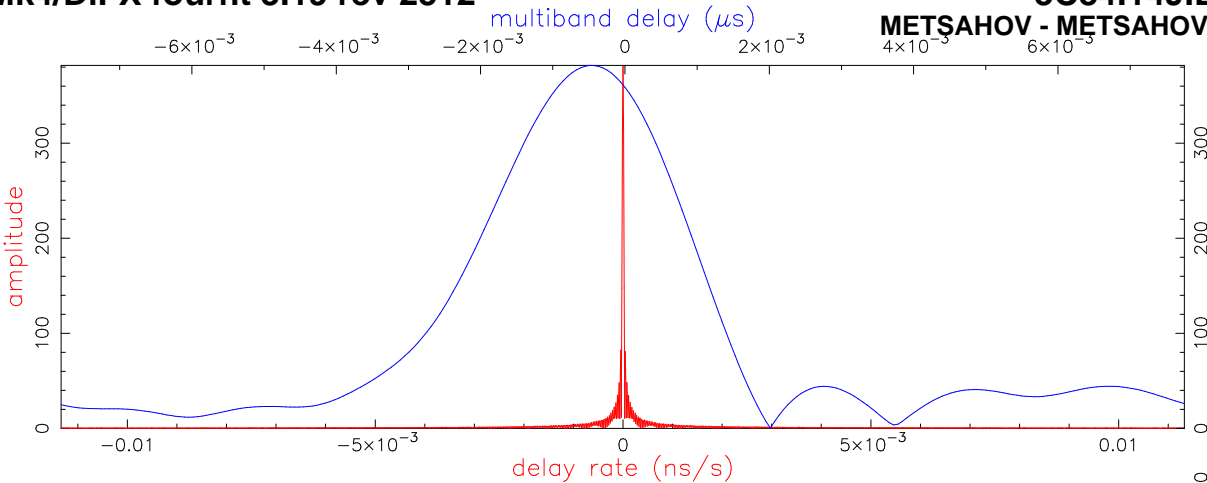
Amp. and Phase vs. time for each freq., 23 segs, 31 APs / seg (15.87 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:Z	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		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

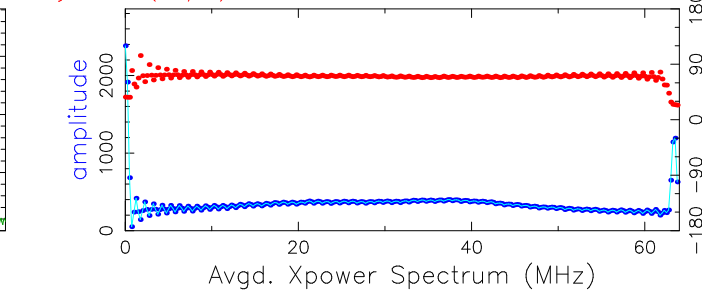
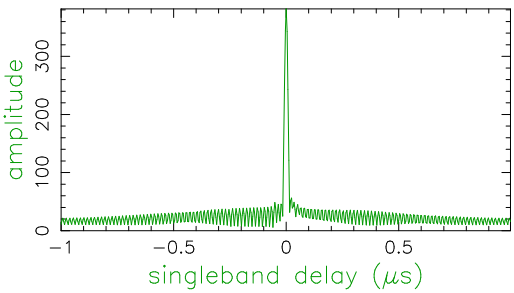
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.1E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.7E-08
Phase delay (usec)	-6.43051025076E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-6.43051E-20	+/-	7.1E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.4E-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	0.0	Theor.	0.0	Amplitude	9999.996 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.0		0.0		0.0	Search (2048X32)	9999.996	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.	9999.996	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00



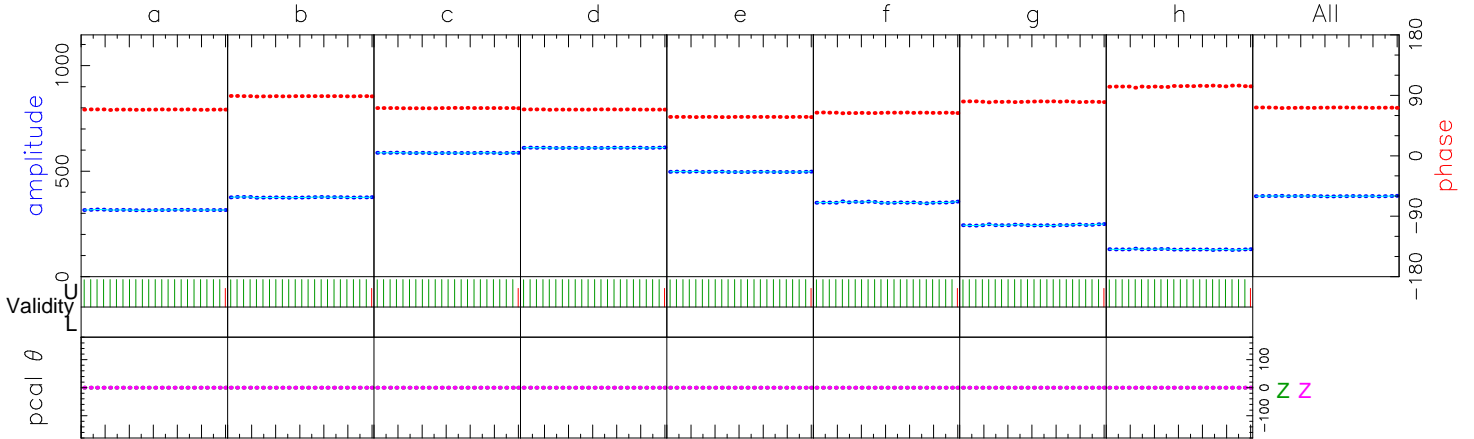
Fringe quality 6

SNR 19791.1  
 Int time 359.253  
 Amp 381.832  
 Phase 71.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.000054  
 MBD -0.000463  
 Fringe rate (Hz)  
 0.000002  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190120  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

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



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	68.7	88.6	70.9	68.8	57.8	63.9	80.5	103.4	Phase	71.6
	316.1	376.1	586.4	610.5	496.7	351.9	245.0	129.3	Ampl.	389.0
	257.0	257.1	256.7	257.0	256.8	257.4	257.4	257.1	Sbd box	257.0
U/L	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

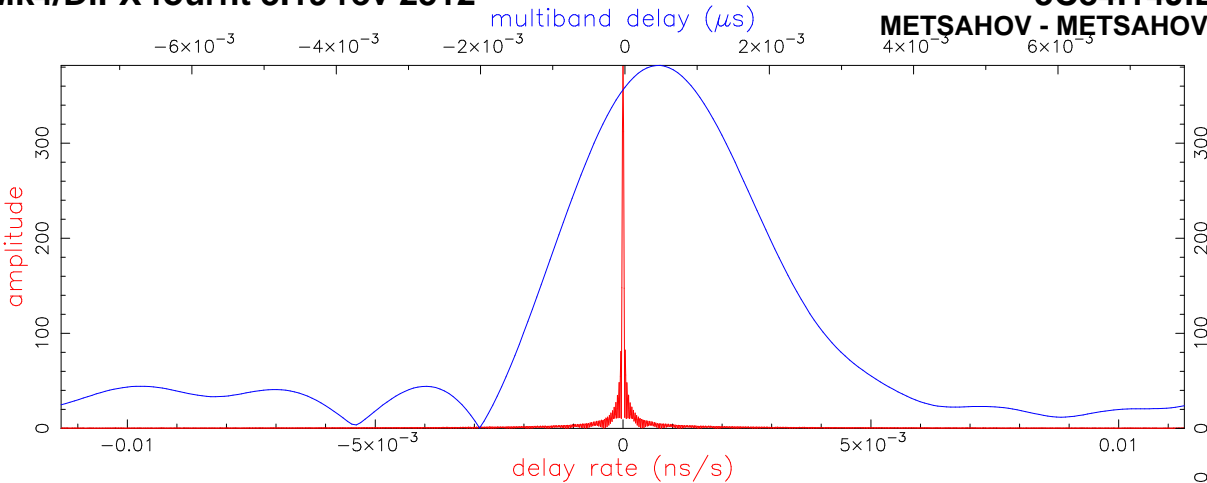
Group delay (usec)(sbd) -4.62531250000E-04 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) -4.62531E-04 +/- 5.5E-08  
 Sband delay (usec) -5.37500000000E-05 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) -5.37500E-05 +/- 4.4E-07  
 Phase delay (usec) 2.30807122153E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 2.30807E-06 +/- 1.9E-10  
 Delay rate (us/s) 2.33824014463E-11 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) 2.33824E-11 +/- 9.0E-13  
 Total phase (deg) 71.6 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 71.6 +/- 0.0

RMS Theor. Amplitude 381.832 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.2 0.0 Search (2048X32) 381.745 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 0.2 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 16.6 0.0 Inc. seg. avg. 381.828 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 40.9 0.0 Inc. frq. avg. 389.001 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

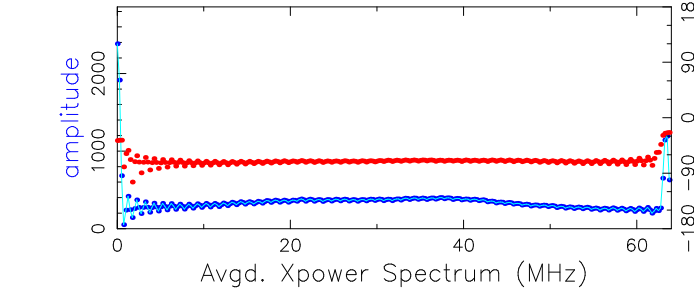
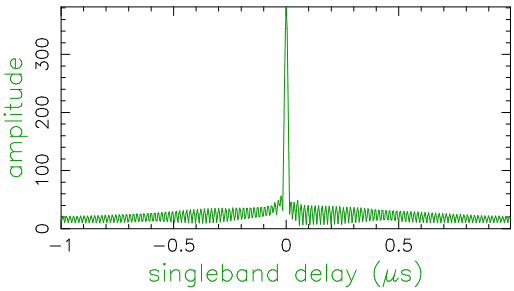
Z: az 204.0 el 70.3 pa 17.3 Z: az 204.0 el 70.3 pa 17.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/ZZ..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/ZZ.W.27.14JIE9

Fringe quality 6

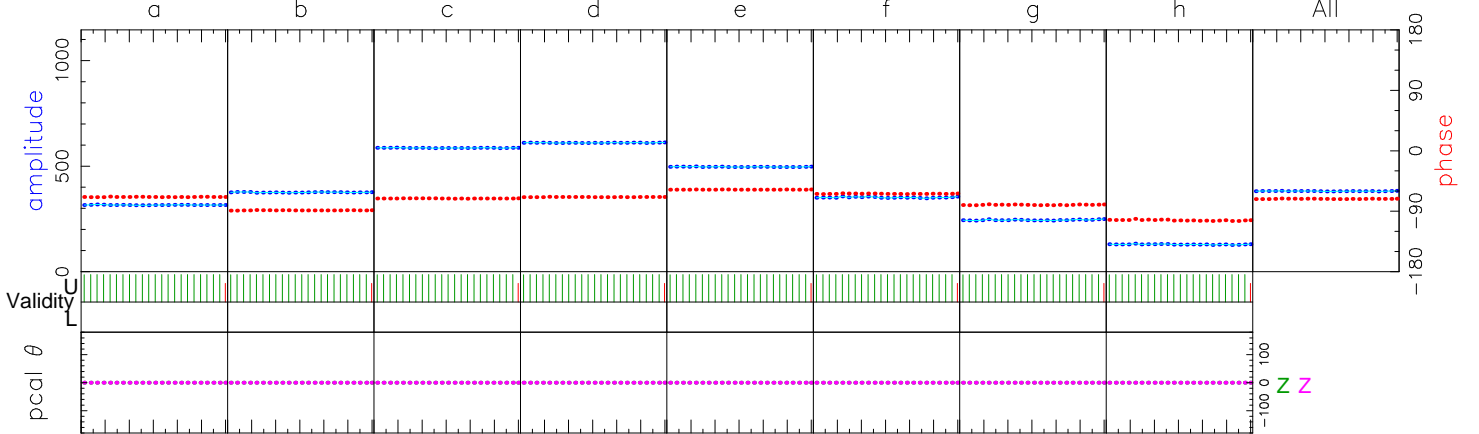


SNR 19791.1  
 Int time 359.253  
 Amp 381.832  
 Phase -71.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.000054  
 MBD 0.000463  
 Fringe rate (Hz)  
 -0.000002  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512



Exp. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190123  
 2020:014:135814  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

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



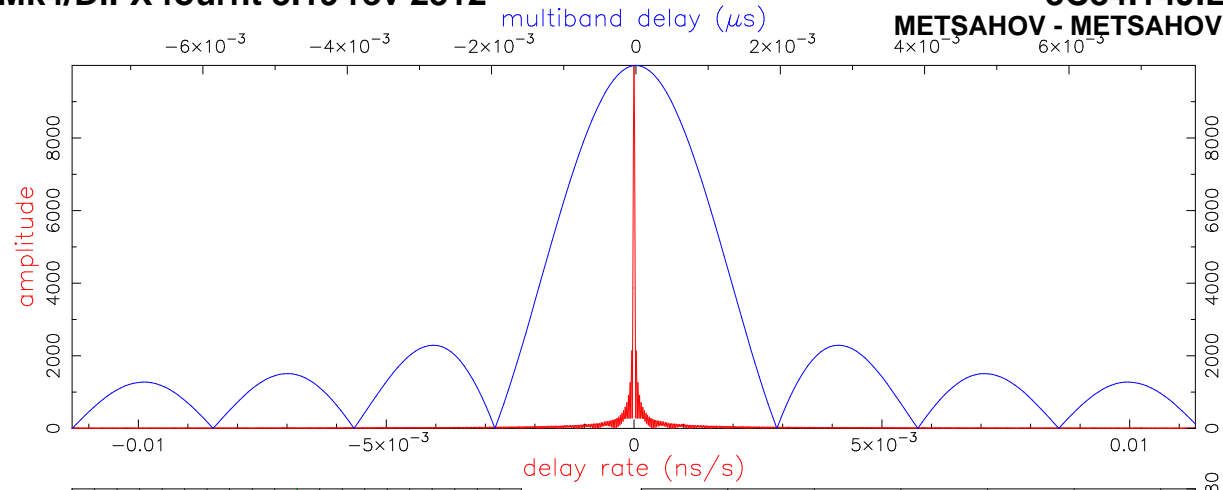
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
Validity	1000	1000	1000	1000	1000	1000	1000	1000		
pcal θ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Z	703/0	703/0	703/0	703/0	703/0	703/0	703/0	703/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:Z	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		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	4.62531250000E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	4.62531E-04	+/-	5.5E-08
Sband delay (usec)	5.37500000000E-05	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	5.37500E-05	+/-	4.4E-07
Phase delay (usec)	-2.30807122158E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.30807E-06	+/-	1.9E-10
Delay rate (us/s)	-2.33824014463E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-2.33824E-11	+/-	9.0E-13
Total phase (deg)	-71.6	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-71.6	+/-	0.0

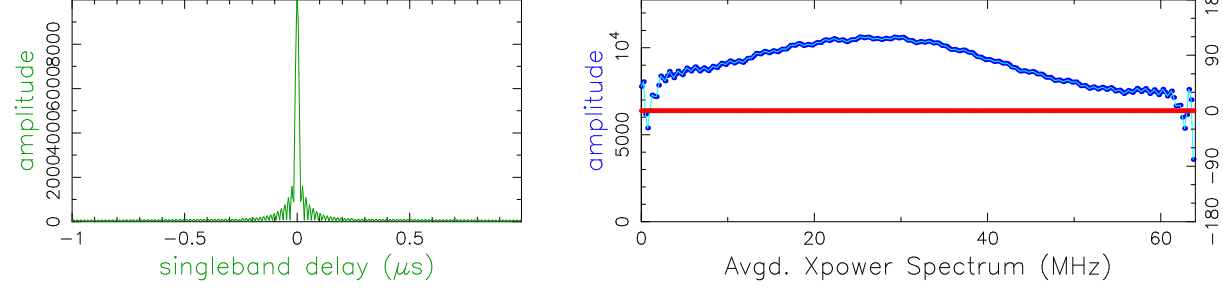
ph/seg (deg)	0.2	Theor.	Amplitude	381.832 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.2	0.0	Search (2048X32)	381.745	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	16.6	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	40.9	0.0	Inc. seg. avg.	381.828	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
			Inc. frq. avg.	389.001	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

Z: az 204.0 el 70.3 pa 17.3      Z: az 204.0 el 70.3 pa 17.3      u,v (fr/asec) 0.000 0.000      simultaneous interpolator

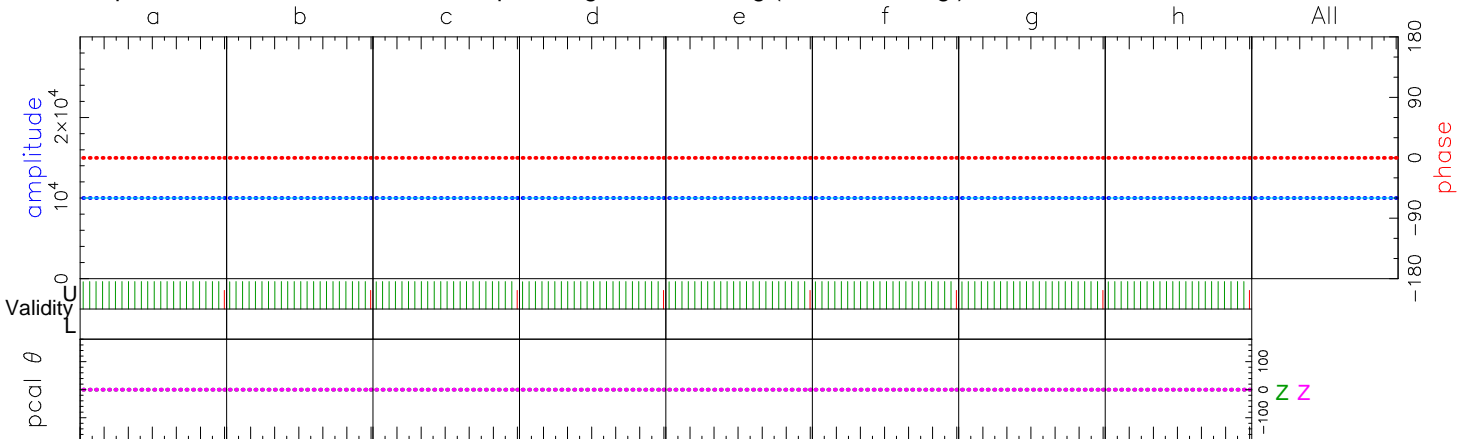
Control file: cf\_1234\_gmva    Input file: /Exps/f201b/FRINGE/1234/No0002/ZZ..14JIE9    Output file: /Exps/f201b/FRINGE/1234/No0002/ZZ.W.37.14JIE9



Fringe quality 9  
 SNR 518319.8  
 Int time 359.253  
 Amp 9999.996  
 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. f201b  
 Exper # 16383  
 Yr:day 2020:115  
 Start 121500.00  
 Stop 122059.94  
 FRT 121800.00  
 Corr/FF/build  
 2020:115:185931  
 2020:115:190113  
 2020:014:135814  
 RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"



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



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

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 2.1E-09  
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.7E-08  
 Phase delay (usec) -6.76212661200E-20 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -6.76213E-20 +/- 7.1E-12  
 Delay rate (us/s) 0.00000000000E+00 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 3.4E-14  
 Total phase (deg) -0.0 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) -0.0 +/- 0.0

RMS Theor. Amplitude 9999.996 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 0.0 0.0 Search (2048X32) 9999.996 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. 9999.996 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

Z: az 204.0 el 70.3 pa 17.3 Z: az 204.0 el 70.3 pa 17.3 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/f201b/FRINGE/1234/No0002/ZZ..14JIE9 Output file: /Exps/f201b/FRINGE/1234/No0002/ZZ.W.7.14JIE9