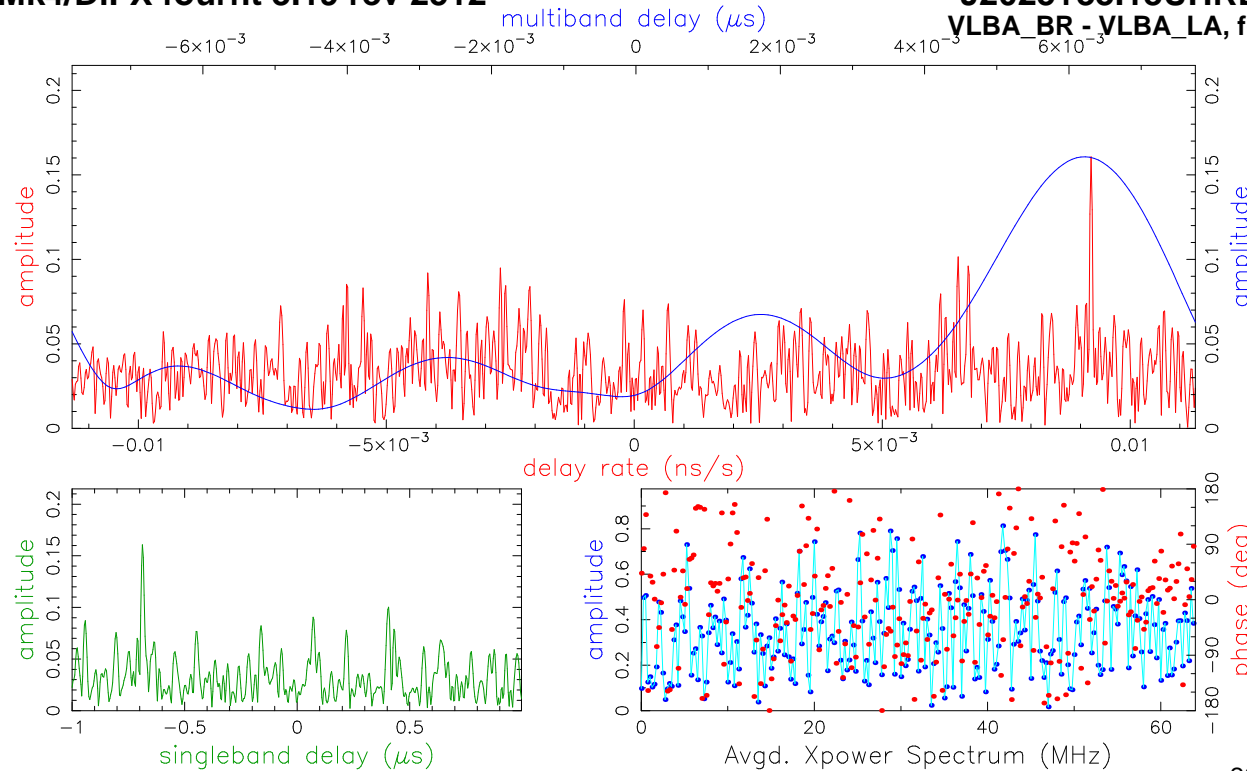


Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, bl

VLBA_BR - VLBA_LA, fgroup W, pol LL

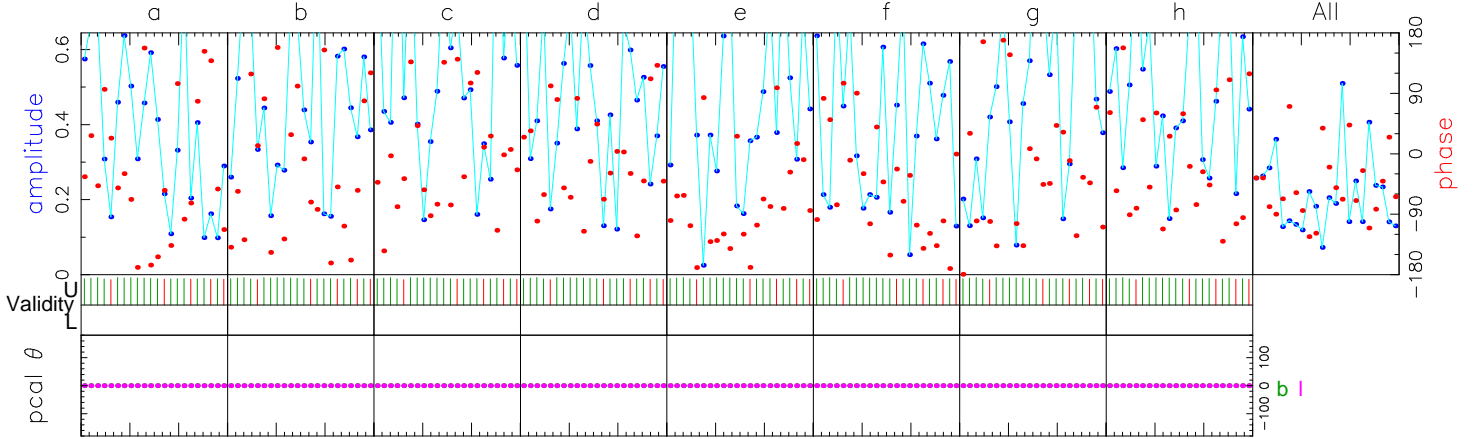


Fringe quality 0

SNR 5.8
 Int time 173.574
 Amp 0.215
 Phase -63.5
 PFD 5.7e-01
 Delays (us)
 SBD -0.687080
 MBD 0.006218
 Fringe rate (Hz) 0.794650
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143632
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.87136067586E+03	Apriori delay (usec)	-1.87067939409E+03	Resid mbdelay (usec)	6.21824E-03	+/-	1.9E-04
Sband delay (usec)	-1.87136647384E+03	Apriori clock (usec)	2.2983134E+00	Resid sbdelay (usec)	-6.87080E-01	+/-	1.5E-03
Phase delay (usec)	-1.87067939614E+03	Apriori clockrate (us/s)	1.0899999E-07	Resid phdelay (usec)	-2.04925E-06	+/-	6.4E-07
Delay rate (us/s)	-9.30767412629E-02	Apriori rate (us/s)	-9.30859663628E-02	Resid rate (us/s)	9.22510E-06	+/-	6.1E-09
Total phase (deg)	-66.1	Apriori accel (us/s/s)	1.99953722198E-05	Resid phase (deg)	-63.5	+/-	19.8

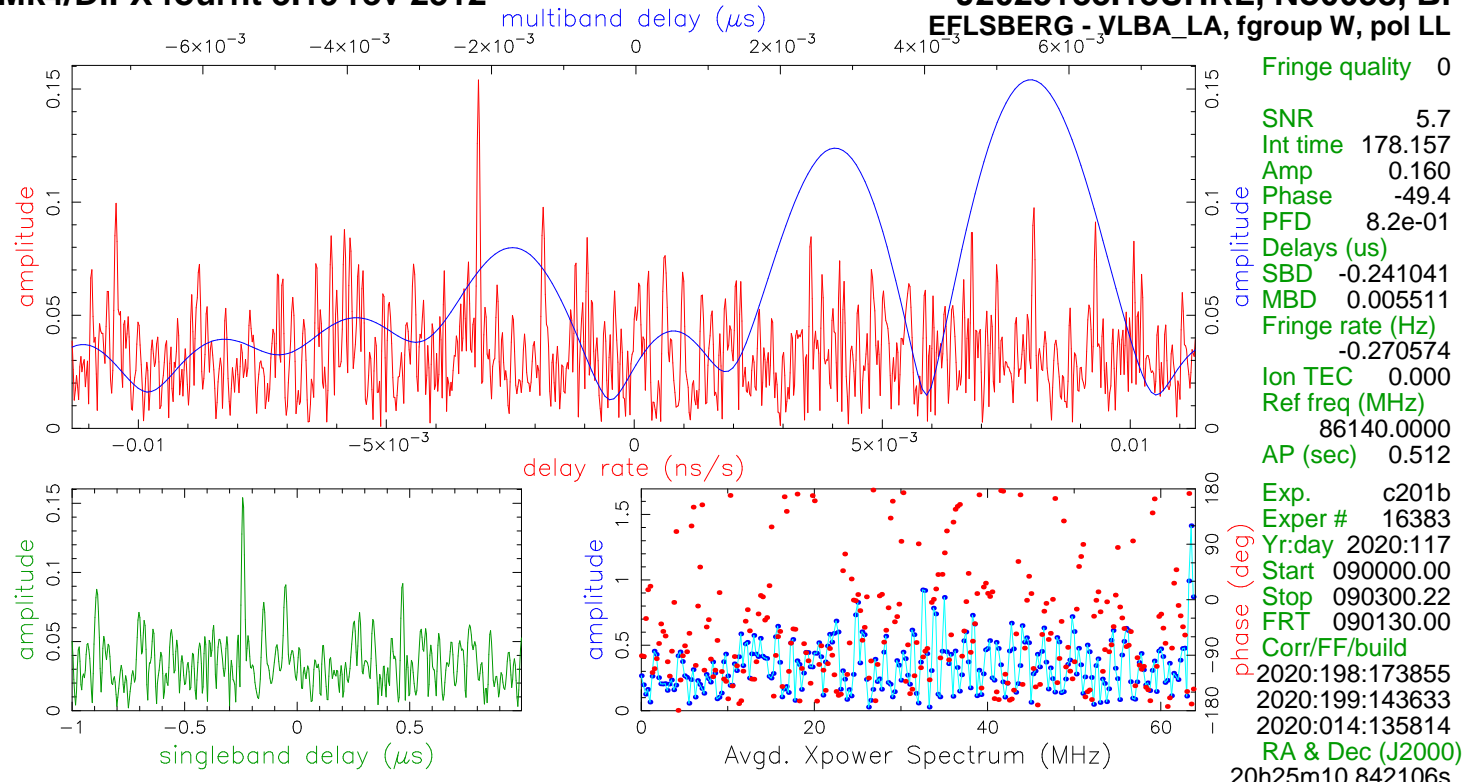
ph/seg (deg)	54.0	Theor.	46.3	Amplitude	0.215 +/- 0.037	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	71.9	Search (1024X32)	0.155	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	25.5	Inc. seg. avg.	0.217	Inc. frq. avg.	0.207	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	47.4	Inc. frq. avg.	0.207			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 74.4 el 33.0 pa -50.7 l: az 72.7 el 39.2 pa -68.9 u,v (fr/asec) 657.775 2225.079 simultaneous interpolator

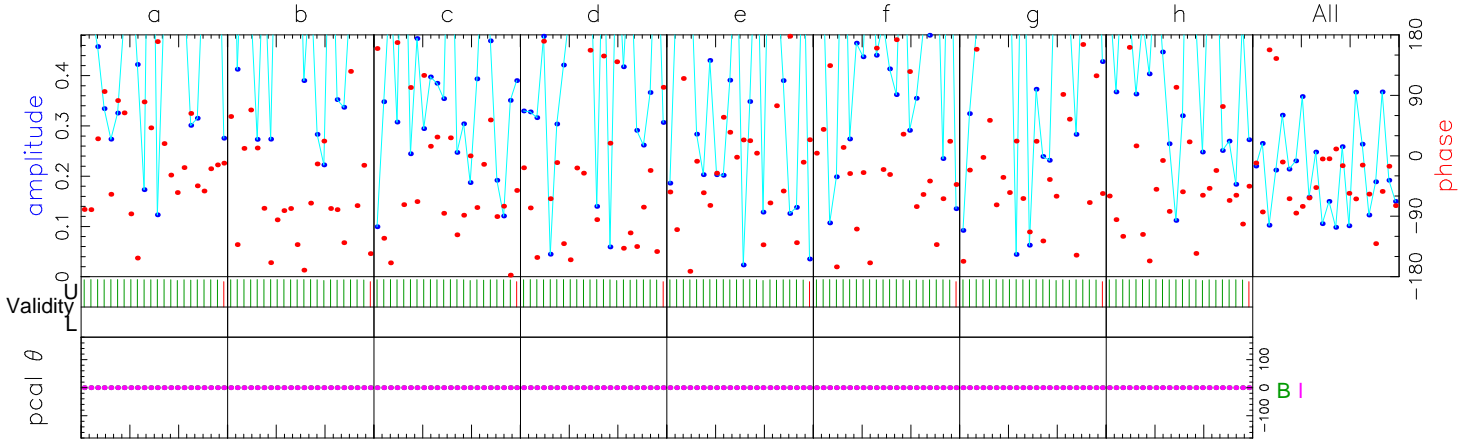
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bl..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bl.W.13.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, BI
EFLSBERG - VLBA_LA, fgroup W, pol LL



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

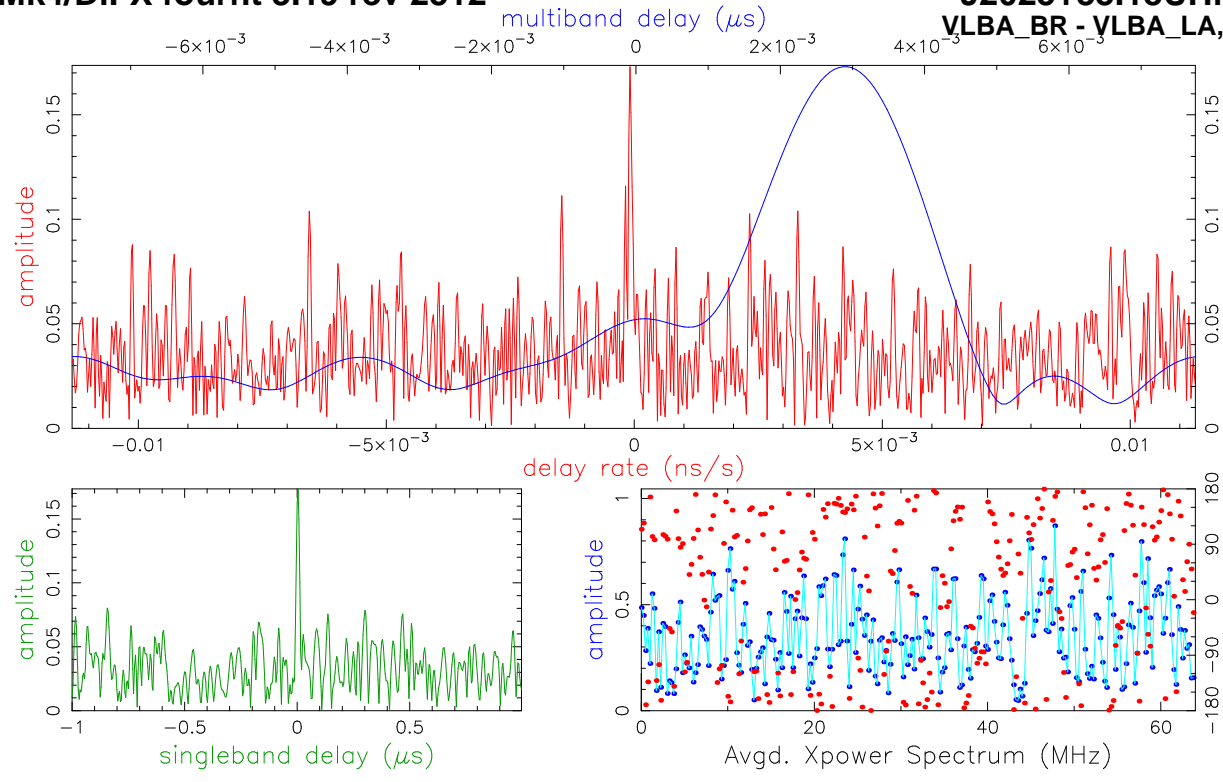


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-14.9	-78.6	-52.3	-139.8	-20.5	-24.1	-39.7	-61.6	Phase	-49.4
	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
	330.0	337.2	164.0	388.3	26.0	443.8	139.7	472.4	Sbd box	195.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:I	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	
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.75257545643E+03		Apriori delay (usec)	2.75281994520E+03	Resid mbdelay (usec)	5.51123E-03	+/-	1.9E-04		
Sband delay (usec)	2.75257890395E+03		Apriori clock (usec)	1.6756115E+01	Resid sbdelay (usec)	-2.41041E-01	+/-	1.5E-03		
Phase delay (usec)	2.75281994361E+03		Apriori clockrate (us/s)	-4.8999999E-08	Resid phdelay (usec)	-1.59245E-06	+/-	6.5E-07		
Delay rate (us/s)	-1.56439843907E+00		Apriori rate (us/s)	-1.56439529797E+00	Resid rate (us/s)	-3.14109E-06	+/-	6.3E-09		
Total phase (deg)		-20.8	Apriori accel (us/s/s)	-2.80107484638E-06	Resid phase (deg)	-49.4	+/-	20.2		

	RMS	Theor.	Amplitude	0.160 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	59.0	47.4	Search (1024X32)	0.151	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	66.4	82.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	44.6	28.6	Inc. seg. avg.	0.165	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	40.3	49.9	Inc. frq. avg.	0.174	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

B: az 264.9 el 50.1 pa 49.5 I: az 72.7 el 39.2 pa -68.9 u,v (fr/asec) 10778.385 1172.583 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/BI..18UHRL Output file: /Exps/c201b/v1/1234/No0058/BI.W.16.18UHRL

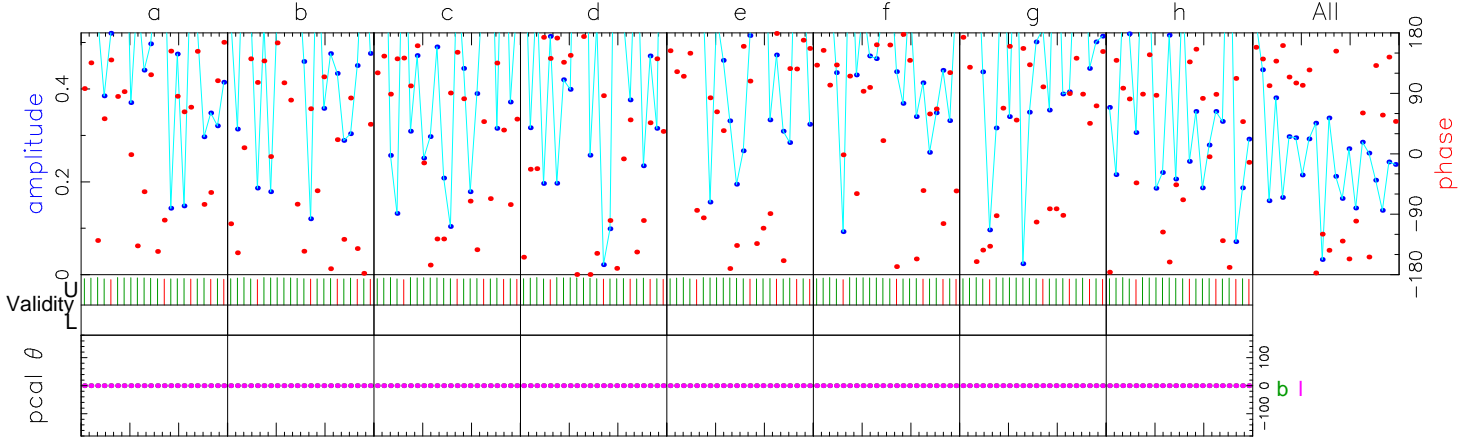


Fringe quality 0

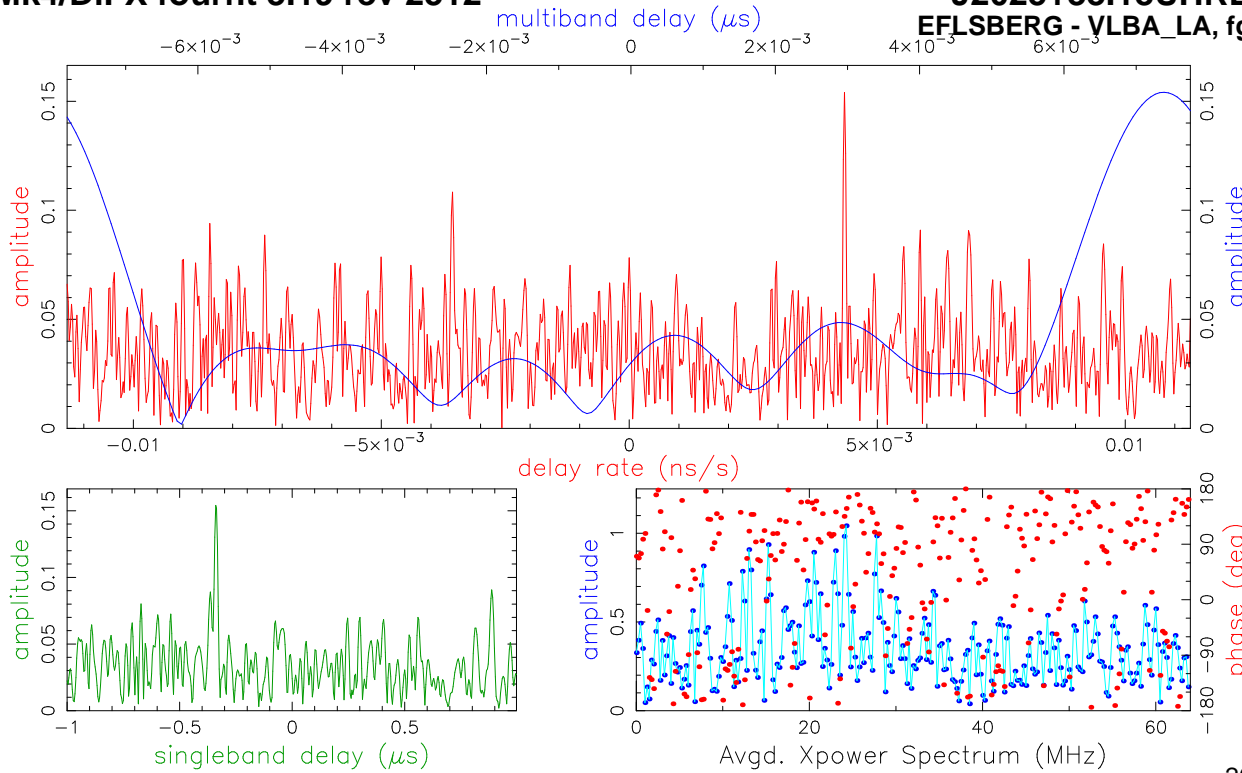
SNR 6.3
Int time 173.573
Amp 0.174
Phase 145.1
PFD 5.3e-02
Delays (us)
SBD 0.003139
MBD 0.002855
Fringe rate (Hz) -0.008591
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143634
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.87067653951E+03									
Sband delay (usec)	-1.87067625534E+03									
Phase delay (usec)	-1.87067938941E+03									
Delay rate (us/s)	-9.30860660980E-02									
Total phase (deg)			142.6							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
amplitude	0.174 +/- 0.028									
Search (1024X32)	0.166									
Interp.	0.000									
Inc. seg. avg.	0.201									
Inc. frq. avg.	0.165									
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

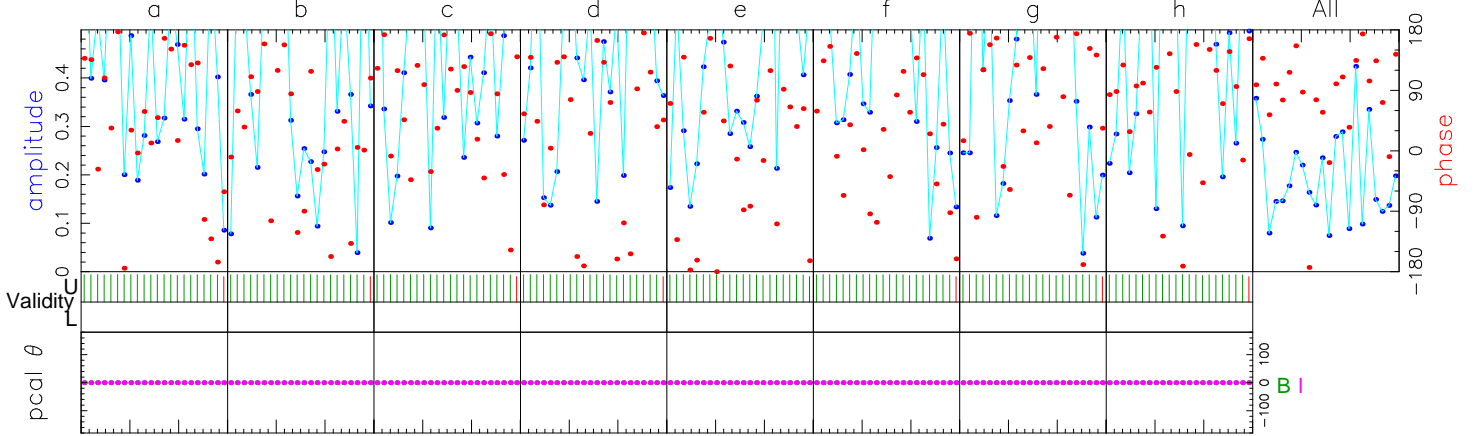


Fringe quality 0

SNR 5.7
Int time 178.157
Amp 0.166
Phase 108.0
PFD 7.4e-01
Delays (us)
SBD -0.338190
MBD 0.007425
Fringe rate (Hz) 0.375188
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143635
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	118.0	100.1	109.0	118.1	103.2	66.6	121.3	111.0	Phase	108.0
B	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.2	Ampl.	0.2
I	298.8	483.7	296.5	136.8	347.0	248.6	503.0	198.8	Sbd box	170.4
B	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:I	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	
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	2.75248361976E+03	Apriori delay (usec)	2.75281994520E+03	Resid mbdelay (usec)	7.42456E-03	+/-	1.9E-04
Sband delay (usec)	2.75248175545E+03	Apriori clock (usec)	1.6756115E+01	Resid sbdelay (usec)	-3.38190E-01	+/-	1.5E-03
Phase delay (usec)	2.75281994868E+03	Apriori clockrate (us/s)	-4.8999999E-08	Resid phdelay (usec)	3.48413E-06	+/-	6.5E-07
Delay rate (us/s)	-1.56439094241E+00	Apriori rate (us/s)	-1.56439529797E+00	Resid rate (us/s)	4.35556E-06	+/-	6.2E-09
Total phase (deg)	136.6	Apriori accel (us/s/s)	-2.80107484638E-06	Resid phase (deg)	108.0	+/-	20.1

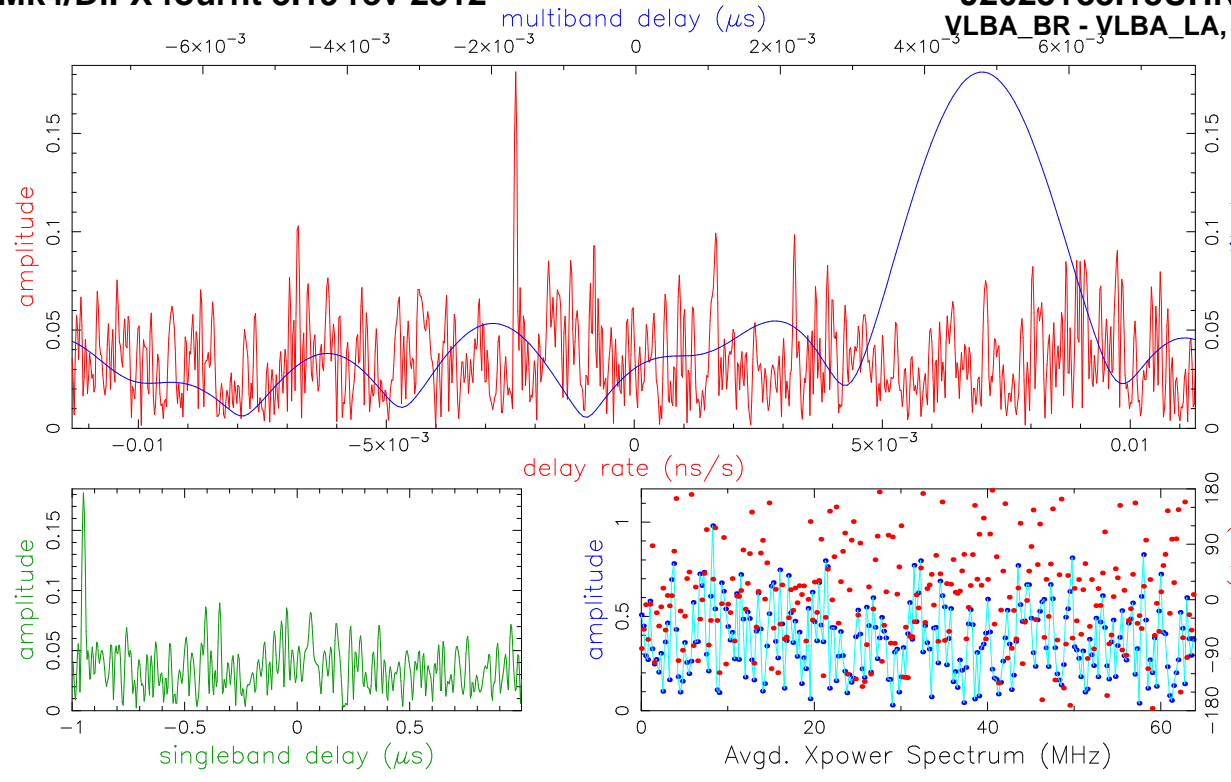
ph/seg (deg)	RMS 52.5	Theor. 47.0	Amplitude Search (1024X32)	0.166 +/- 0.029	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	65.9	82.1	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	19.1	28.4	Inc. seg. avg.	0.159	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	31.7	49.5	Inc. frq. avg.	0.151	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

B: az 264.9 el 50.1 pa 49.5 I: az 72.7 el 39.2 pa -68.9 u,v (fr/asec) 10778.385 1172.583 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/BI..18UHRL Output file: /Exps/c201b/v1/1234/No0058/BI.W.23.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, bl
VLBA_BR - VLBA_LA, fgroup W, pol LR

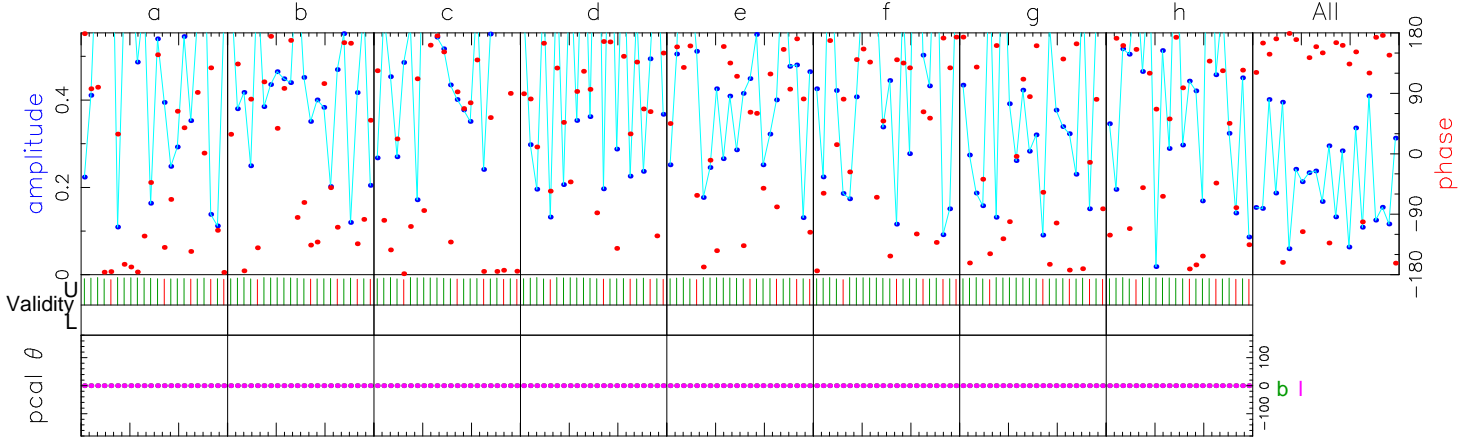


Fringe quality 0

SNR 6.5
Int time 173.574
Amp 0.185
Phase 168.2
PFD 9.2e-03
Delays (us)
SBD -0.949162
MBD 0.004798
Fringe rate (Hz)
-0.206242
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143636
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

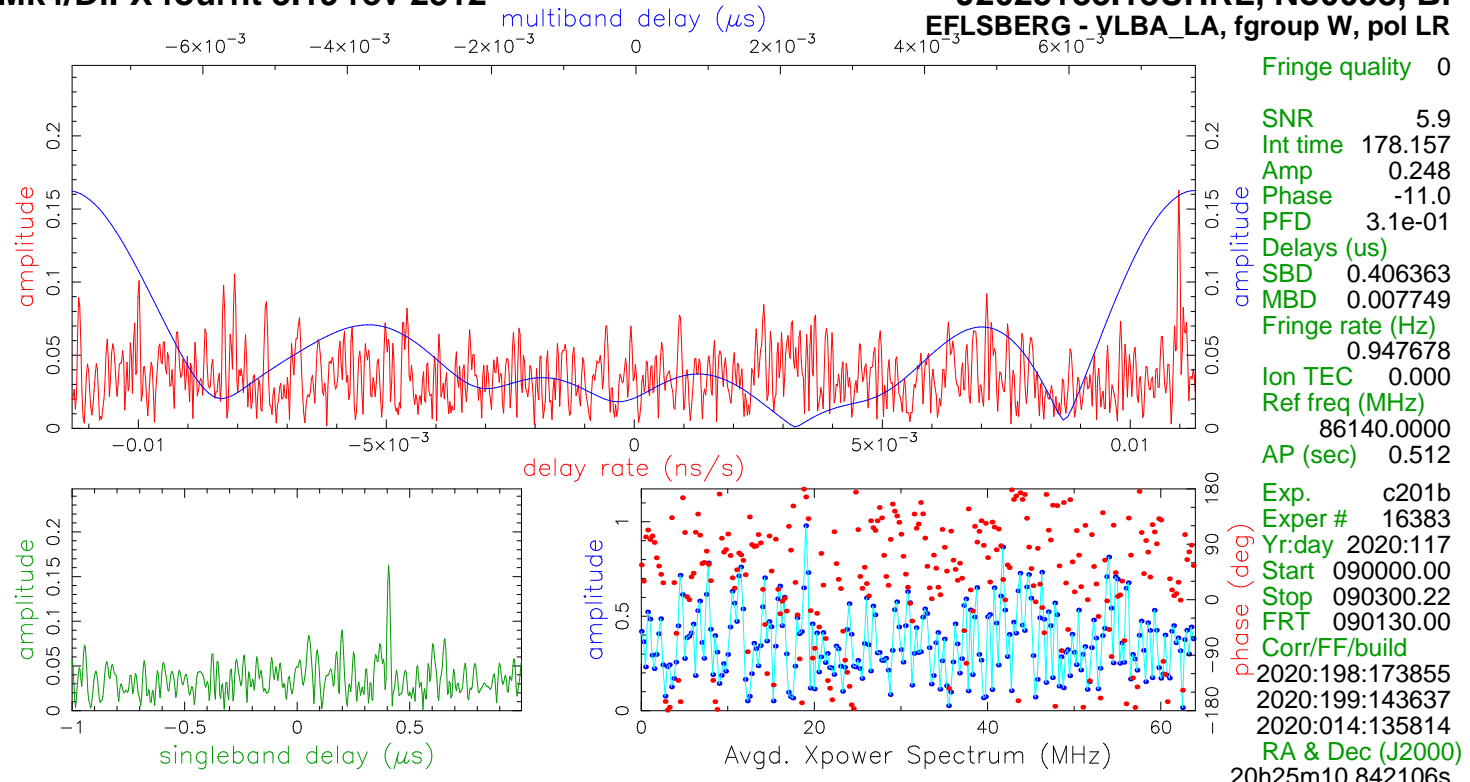
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.87162772089E+03								4.79820E-03	+/- 1.7E-04
Sband delay (usec)	-1.8716285659E+03								-9.49162E-01	+/- 1.3E-03
Phase delay (usec)	-1.87067938867E+03								5.42252E-06	+/- 5.7E-07
Delay rate (us/s)	-9.30883606315E-02								-2.39427E-06	+/- 5.4E-09
Total phase (deg)			165.6						168.2	+/- 17.5
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										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

b: az 74.4 el 33.0 pa -50.7 l: az 72.7 el 39.2 pa -68.9 u,v (fr/asec) 657.775 2225.079

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bl..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bl.W.27.18UHRL



Fringe quality 0

SNR 5.9

Int time 178.157

Amp 0.248

Phase -11.0

PFD 3.1e-01

Delays (us)

SBD 0.406363

MBD 0.007749

Fringe rate (Hz) 0.947678

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.512

Exp. c201b

Exper # 16383

Yr:day 2020:117

Start 090000.00

Stop 090300.22

FRT 090130.00

Corr/FF/build

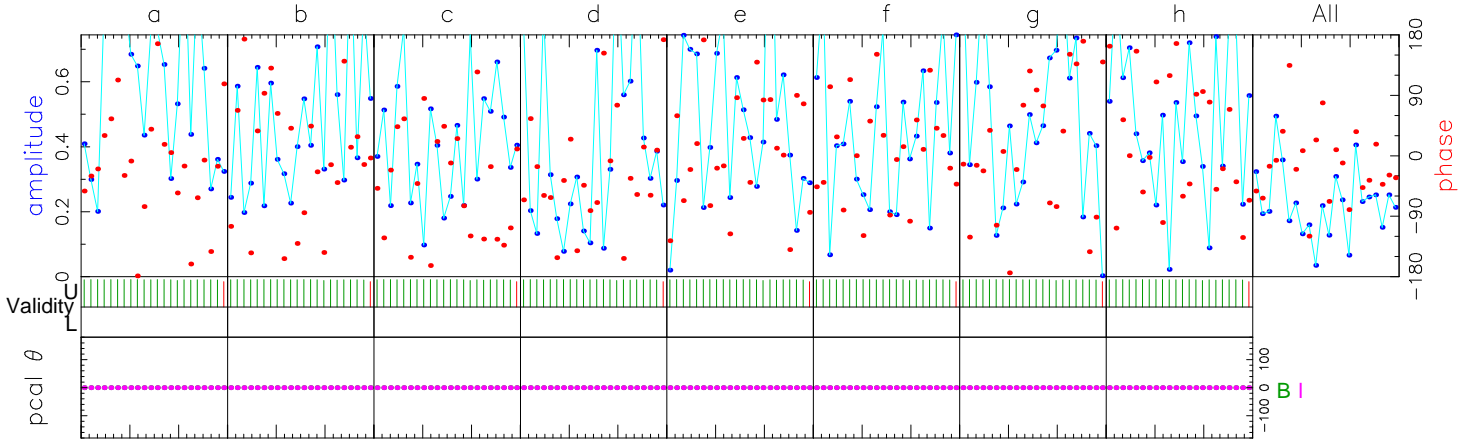
2020:198:173855

2020:199:143637

2020:014:135814

RA & Dec (J2000) 20h25m10.842106s +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-5.0	4.0	-62.7	-45.0	13.3	2.2	3.5	-33.1	Phase	-11.0
	0.4	0.3	0.2	0.3	0.3	0.4	0.1	0.2	Ampl.	0.2
	359.1	121.4	237.0	359.3	362.6	180.9	500.4	295.3	Sbd box	361.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:I	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	
I	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.75323394398E+03		Apriori delay (usec)		2.75281994520E+03		Resid mbdelay (usec)		7.74878E-03	+/- 1.8E-04
Sband delay (usec)	2.75322630820E+03		Apriori clock (usec)		1.6756115E+01		Resid sbdelay (usec)		4.06363E-01	+/- 1.5E-03
Phase delay (usec)	2.75281994484E+03		Apriori clockrate (us/s)		-4.8999999E-08		Resid phdelay (usec)		-3.56196E-07	+/- 6.2E-07
Delay rate (us/s)	-1.56438429638E+00		Apriori rate (us/s)		-1.56439529797E+00		Resid rate (us/s)		1.10016E-05	+/- 6.0E-09
Total phase (deg)	17.6		Apriori accel (us/s/s)		-2.80107484638E-06		Resid phase (deg)		-11.0	+/- 19.3

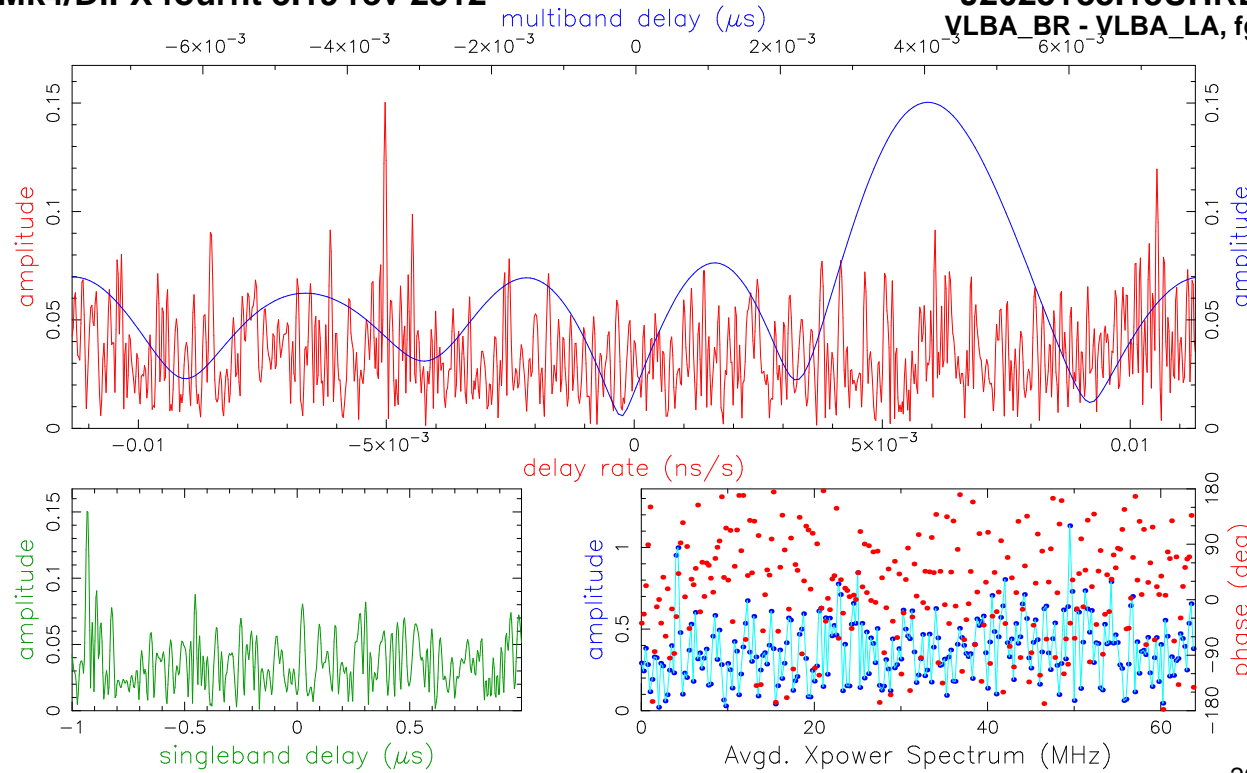
ph/seg (deg) 54.3 45.3 Amplitude 0.248 +/- 0.042 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 75.2 79.0 Search (1024X32) 0.160 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 30.4 27.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 36.3 47.6 Inc. seg. avg. 0.265 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011

amp/frq (%) 36.3 47.6 Inc. frq. avg. 0.244 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

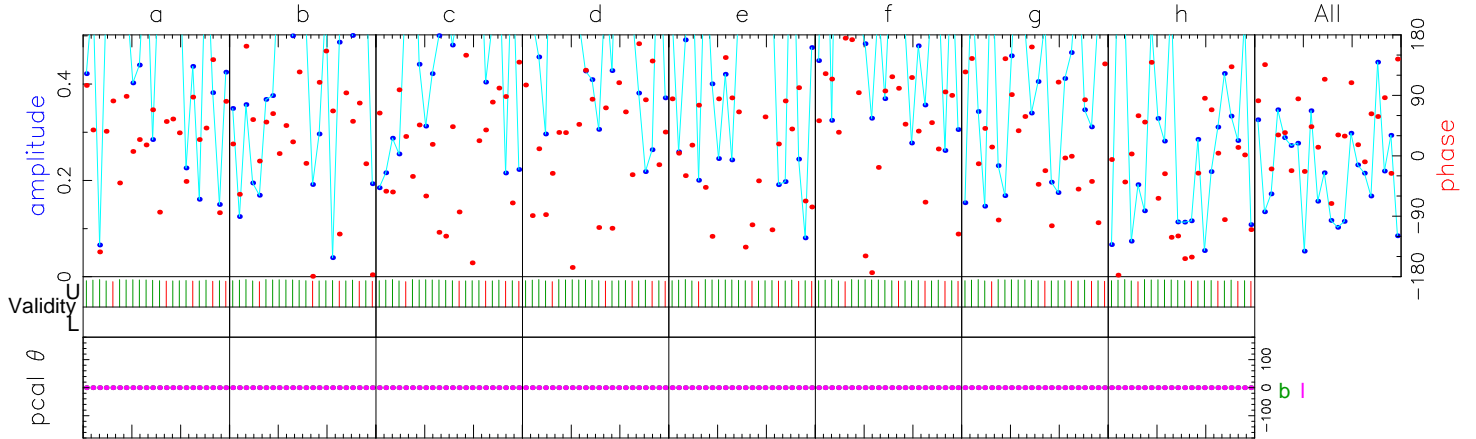


Fringe quality 0

SNR 5.6
Int time 173.573
Amp 0.167
Phase 44.0
PFD 9.6e-01
Delays (us)
SBD -0.931673
MBD 0.004087
Fringe rate (Hz)
-0.432916
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143638
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

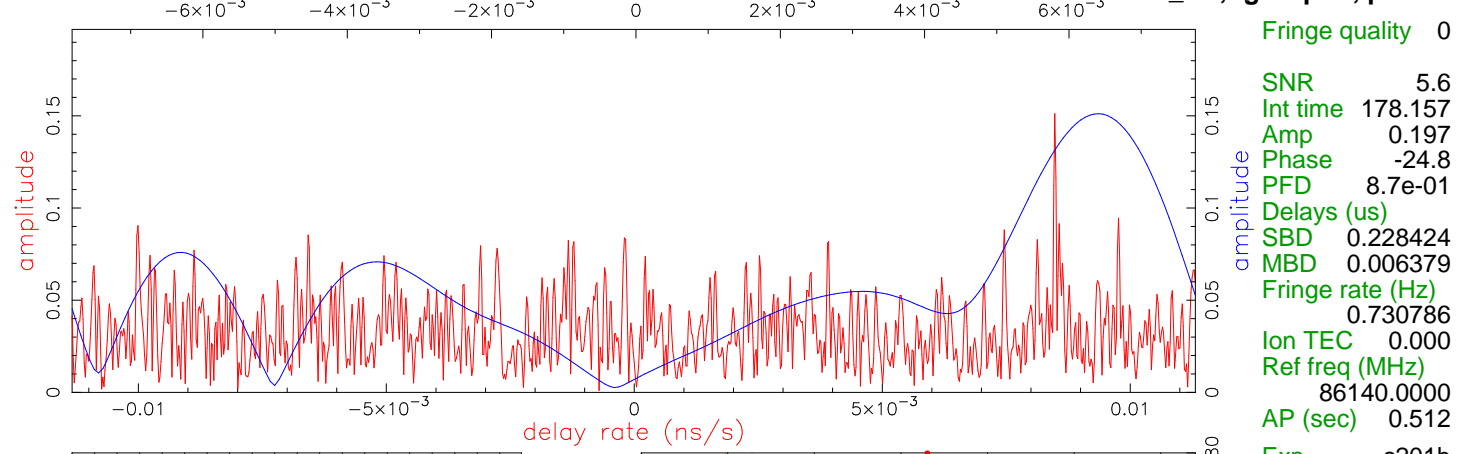
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



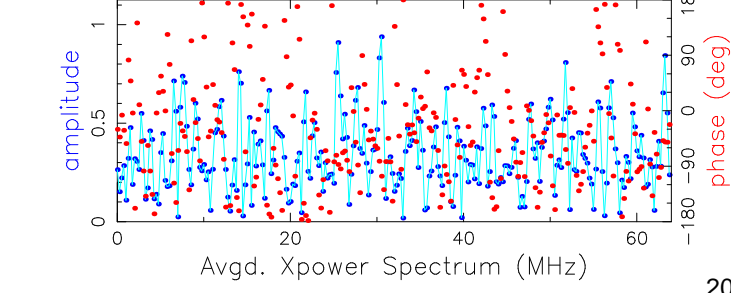
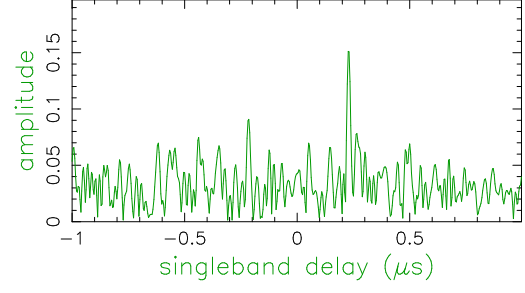
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.87161280752E+03								4.08657E-03	+/- 2.0E-04
Sband delay (usec)	-1.87161106659E+03								-9.31673E-01	+/- 1.6E-03
Phase delay (usec)	-1.87067939267E+03								1.41754E-06	+/- 6.7E-07
Delay rate (us/s)	-9.30909920926E-02								-5.02573E-06	+/- 6.4E-09
Total phase (deg)			41.4						44.0	+/- 20.6
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)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 56.1 48.4 Search (1024X32) 0.149 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 77.6 84.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 50.3 29.2 Inc. seg. avg. 0.178 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 56.7 50.9 Inc. frq. avg. 0.169 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 74.4 el 33.0 pa -50.7 l: az 72.7 el 39.2 pa -68.9 u,v (fr/asec) 657.775 2225.079 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bl..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bl.W.35.18UHRL

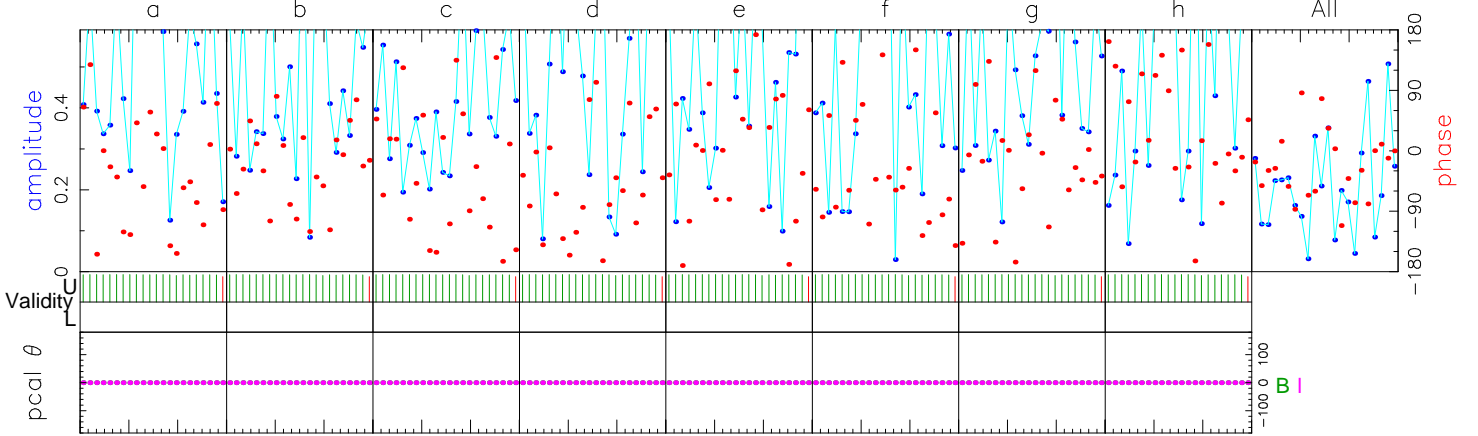
multiband delay (μ s)



Fringe quality 0
SNR 5.6
Int time 178.157
Amp 0.197
Phase -24.8
PFD 8.7e-01
Delays (us)
SBD 0.228424
MBD 0.006379
Fringe rate (Hz) 0.730786
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143640
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-11.7	-20.1	-40.2	-65.7	-9.2	-68.9	-16.0	55.7	Phase	-24.8
	0.3	0.4	0.1	0.2	0.2	0.2	0.3	0.1	Ampl.	0.2
	53.8	315.4	250.7	324.6	294.1	231.7	200.7	323.4	Sbd box	315.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:I	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	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

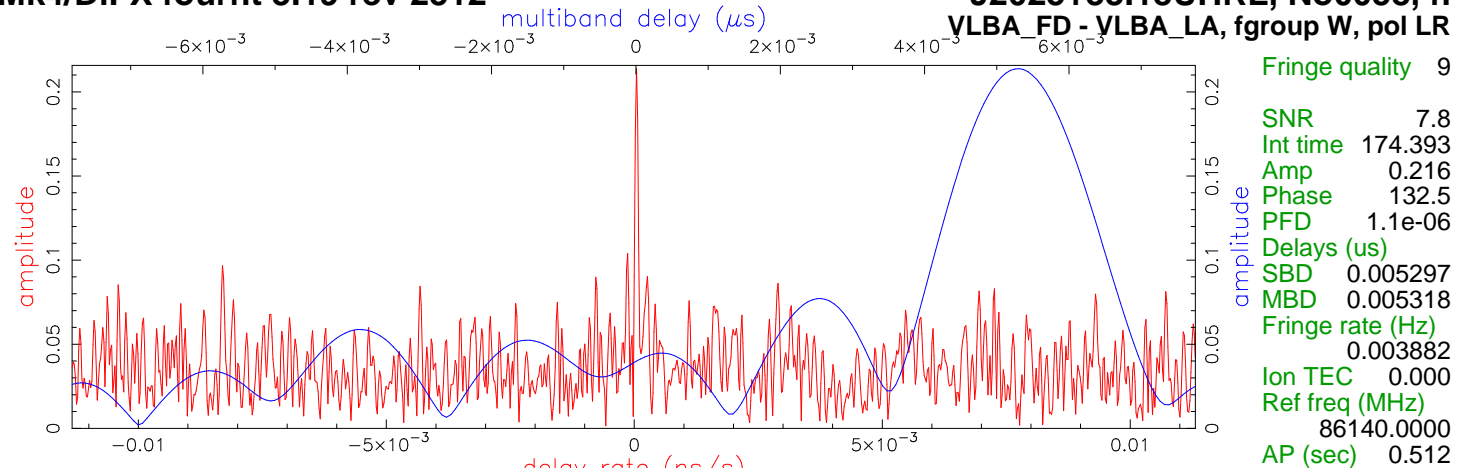
Group delay (usec)(sbd)	2.75304507443E+03	Apriori delay (usec)		2.75281994520E+03	Resid mbdelay (usec)		6.37923E-03	+/-	1.9E-04	
Sband delay (usec)	2.75304836945E+03	Apriori clock (usec)		1.6756115E+01	Resid sbdelay (usec)		2.28424E-01	+/-	1.5E-03	
Phase delay (usec)	2.75281994440E+03	Apriori clockrate (us/s)		-4.8999999E-08	Resid phdelay (usec)		-7.98189E-07	+/-	6.5E-07	
Delay rate (us/s)	-1.56438681427E+00	Apriori rate (us/s)		-1.56439529797E+00	Resid rate (us/s)		8.48370E-06	+/-	6.3E-09	
Total phase (deg)		3.8	Apriori accel (us/s/s)		-2.80107484638E-06	Resid phase (deg)		-24.8	+/-	20.3

ph/seg (deg)	49.2	Theor. 47.6	Amplitude	0.197 +/- 0.035	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		
amp/seg (%)	86.8	83.1	Search (1024X32)	0.146	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000	
ph/frq (deg)	42.5	28.7	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	47.4	50.1	Inc. seg. avg.	0.201	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
			Inc. frq. avg.	0.194	Data rate(Mb/s): 2048		ion window (TEC)	0.00 0.00	

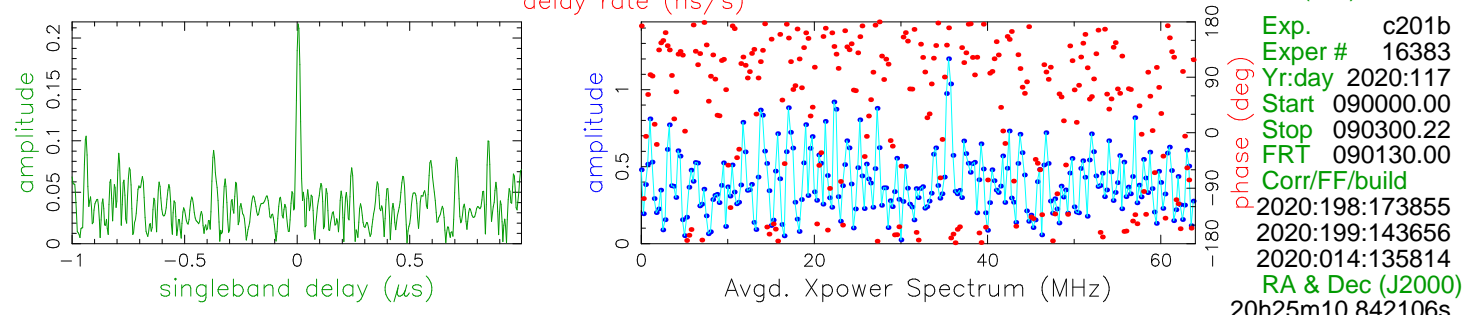
B: az 264.9 el 50.1 pa 49.5 I: az 72.7 el 39.2 pa -68.9 u,v (fr/asec) 10778.385 1172.583 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/BI..18UHRL Output file: /Exps/c201b/v1/1234/No0058/BI.W.42.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

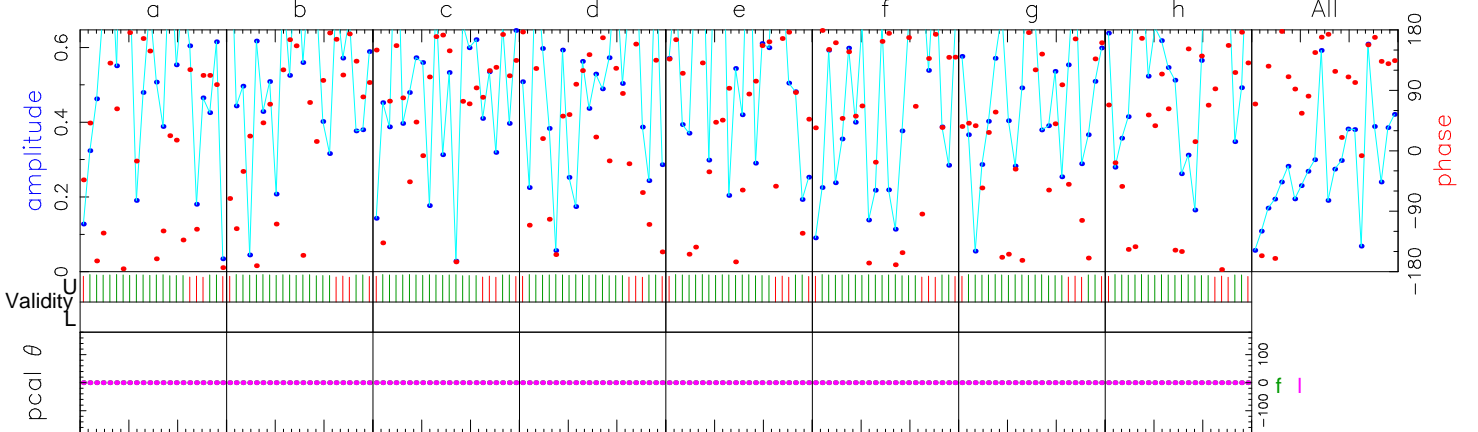
J2025+33.18UHRL, No0058, fl
VLBA_FD - VLBA_LA, fgroup W, pol LR



Fringe quality 9
SNR 7.8
Int time 174.393
Amp 0.216
Phase 132.5
PFD 1.1e-06
Delays (us)
SBD 0.005297
MBD 0.005318
Fringe rate (Hz) 0.003882
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143656
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

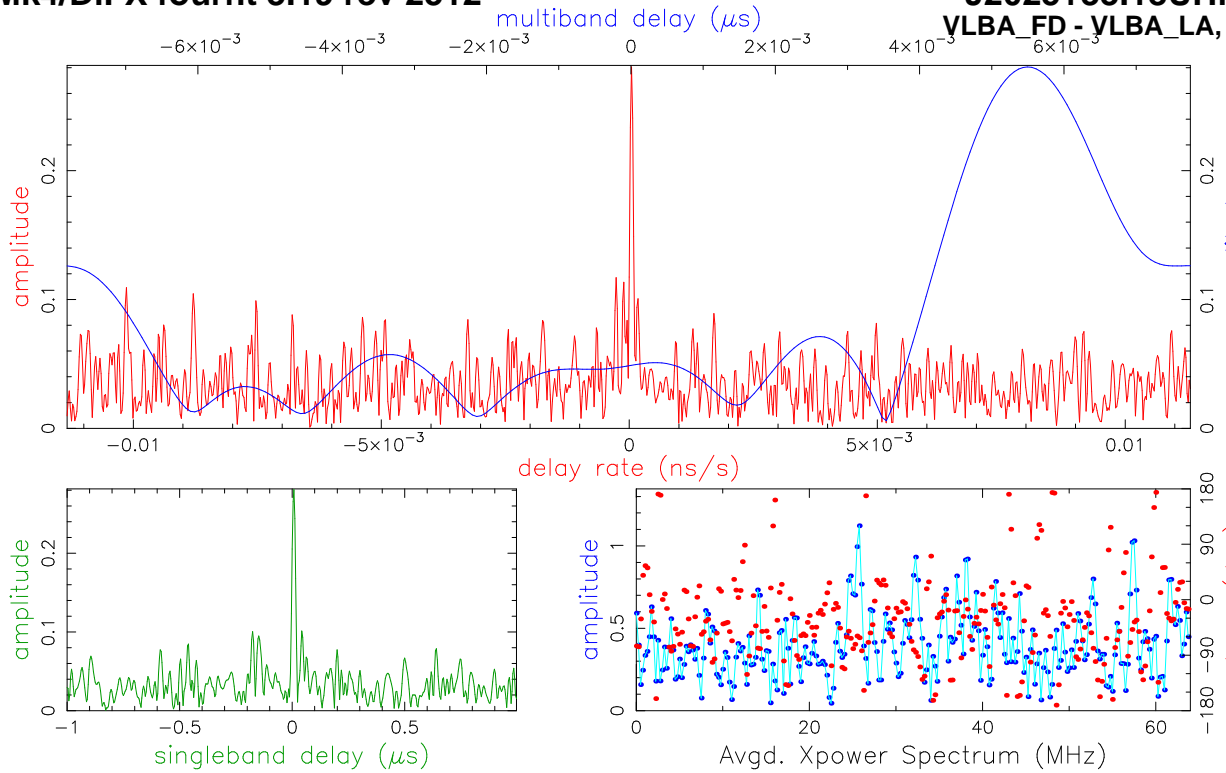


Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	132.5	132.5
l	1000	1000	1000	1000	1000	1000	1000	1000	0.2	0.2
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	258.4	258.4
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	5.84108675279E+01		Apriori delay (usec)		5.84055493036E+01		Resid mbdelay (usec)		5.31822E-03	+/- 1.4E-04
Sband delay (usec)	5.84108463036E+01		Apriori clock (usec)		7.6065273E+00		Resid sbdelay (usec)		5.29700E-03	+/- 1.1E-03
Phase delay (usec)	5.8405535767E+01		Apriori clockrate (us/s)		2.6000000E-07		Resid phdelay (usec)		4.27312E-06	+/- 4.7E-07
Delay rate (us/s)	3.45949833541E-02		Apriori rate (us/s)		3.45949382912E-02		Resid rate (us/s)		4.50628E-08	+/- 4.6E-09
Total phase (deg)	138.6		Apriori accel (us/s/s)		-4.97565923825E-06		Resid phase (deg)		132.5	+/- 14.7

ph/seg (deg) 54.0 34.5 Search (1024X32) 0.213 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 72.1 60.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 14.9 20.8 Inc. seg. avg. 0.241 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 23.0 36.3 Inc. frq. avg. 0.205 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
f: az 69.5 el 39.4 pa -75.8 l: az 72.7 el 39.2 pa -68.9 u,v (fr/asec) -242.920 -812.499 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/fl..18UHRL Output file: /Exps/c201b/v1/1234/No0058/fl.W.107.18UHRL

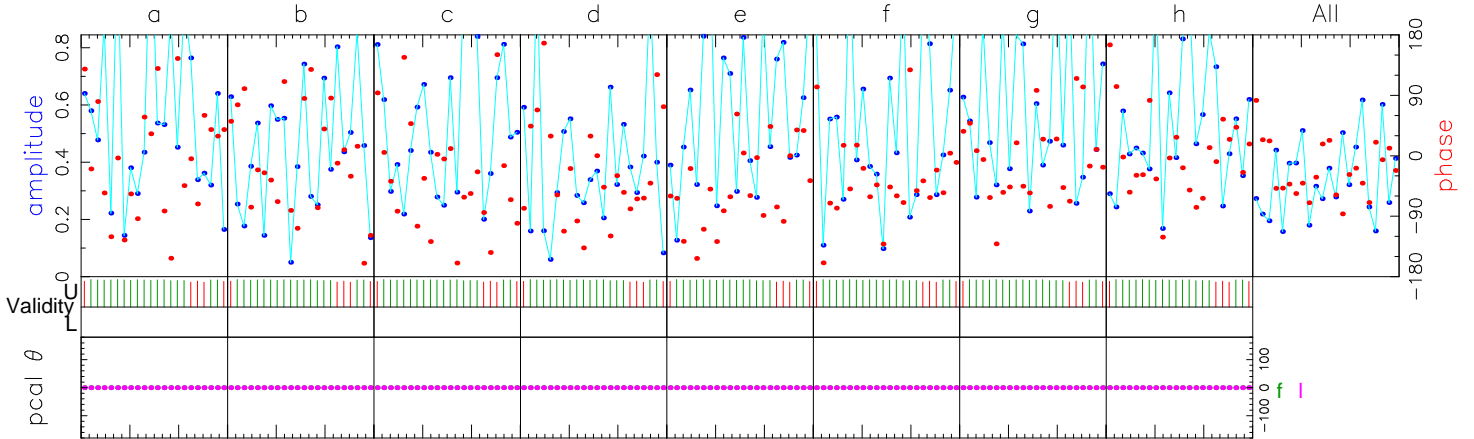


Fringe quality 9

SNR 10.2
Int time 174.391
Amp 0.282
Phase -27.2
PFD 5.6e-16
Delays (us)
SBD 0.007002
MBD 0.005499
Fringe rate (Hz) 0.003807
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

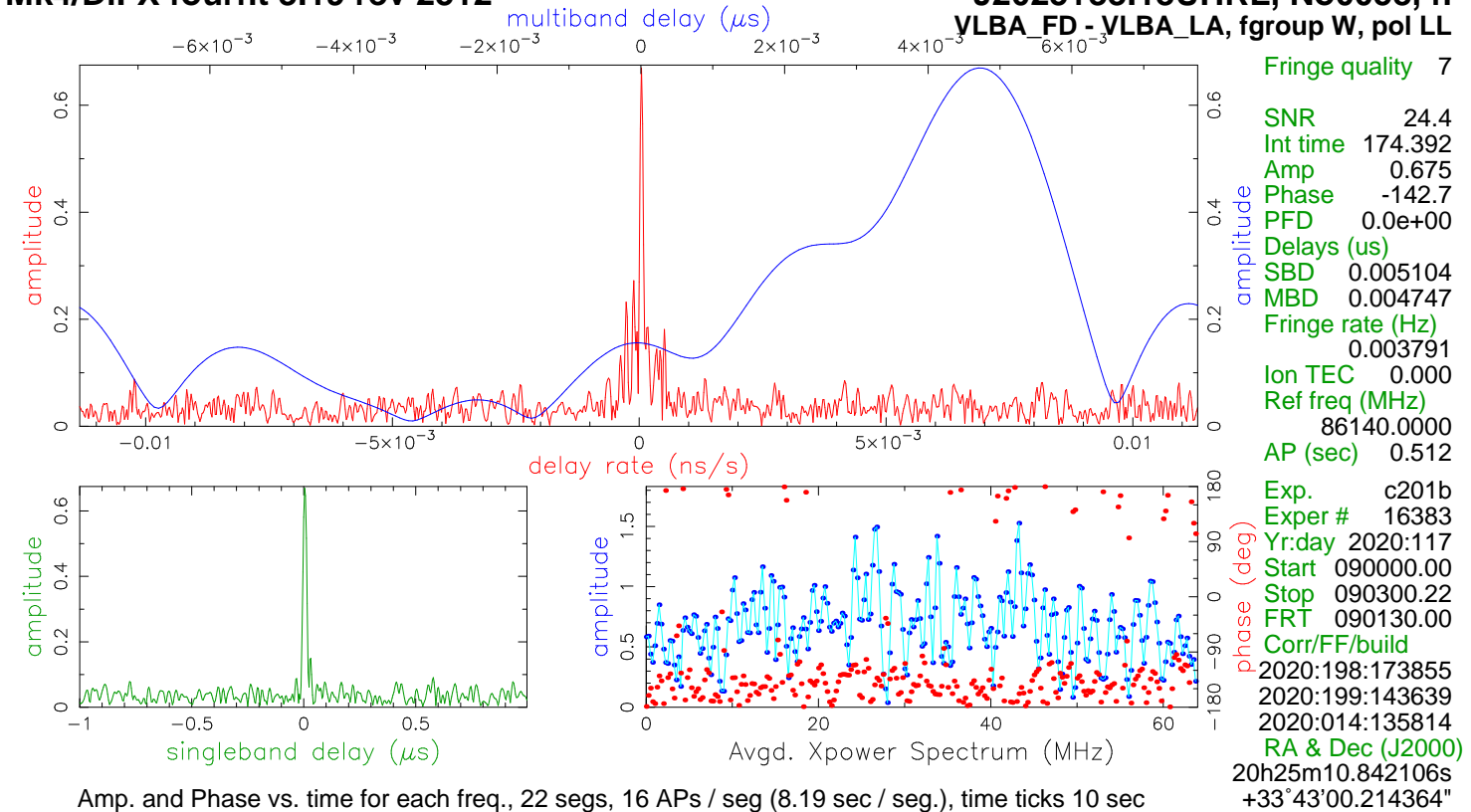
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143700
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

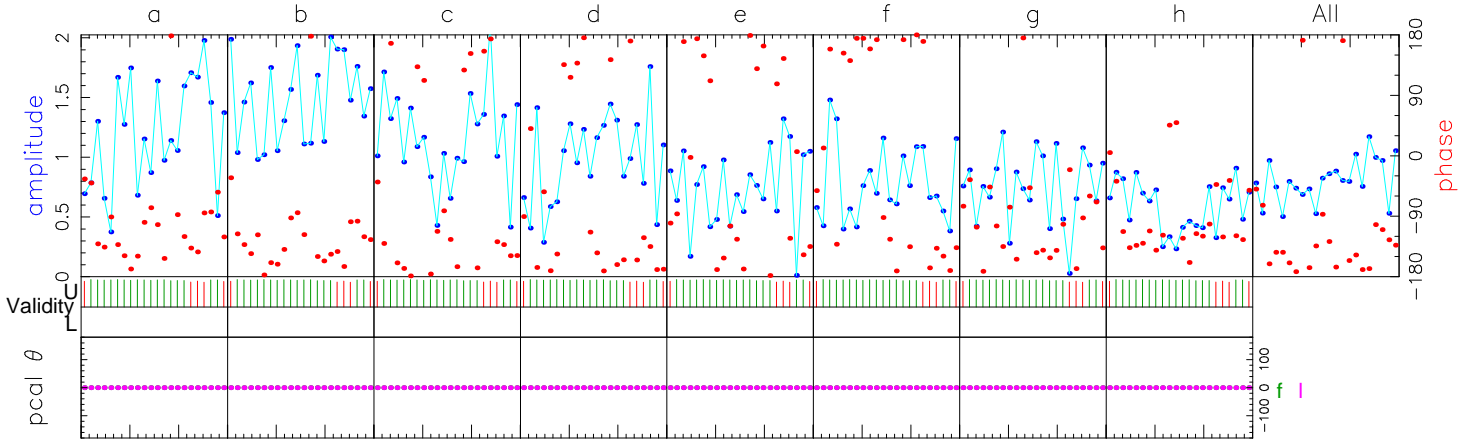


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-4.0	9.8	-44.4	-47.5	-52.9	-39.7	-11.9	-12.7	Phase	-27.2
	0.2	0.2	0.3	0.2	0.4	0.4	0.4	0.4	Ampl.	0.3
	260.7	202.1	259.5	46.0	259.0	259.0	258.4	258.8	Sbd box	258.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	5.84110487779E+01		Apriori delay (usec)		5.84055493036E+01		Resid mbdelay (usec)		5.49947E-03	+/- 1.1E-04
Sband delay (usec)	5.84125508036E+01		Apriori clock (usec)		7.6065273E+00		Resid sbdelay (usec)		7.00150E-03	+/- 8.5E-04
Phase delay (usec)	5.84055484272E+01		Apriori clockrate (us/s)		2.6000000E-07		Resid phdelay (usec)		-8.76348E-07	+/- 3.6E-07
Delay rate (us/s)	3.45949824882E-02		Apriori rate (us/s)		3.45949382912E-02		Resid rate (us/s)		4.41970E-08	+/- 3.5E-09
Total phase (deg)			Apriori accel (us/s/s)		-4.97565923825E-06		Resid phase (deg)		-27.2	+/- 11.3

ph/seg (deg) 40.4 26.4 Search (1024X32) 0.279 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 52.2 46.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.4 15.9 Inc. seg. avg. 0.311 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 33.9 27.8 Inc. frq. avg. 0.288 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 69.5 el 39.4 pa -75.8 l: az 72.7 el 39.2 pa -68.9 u,v (fr/asec) -242.920 -812.499 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/fl..18UHRL Output file: /Exps/c201b/v1/1234/No0058/fl.W.134.18UHRL simultaneous interpolator



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



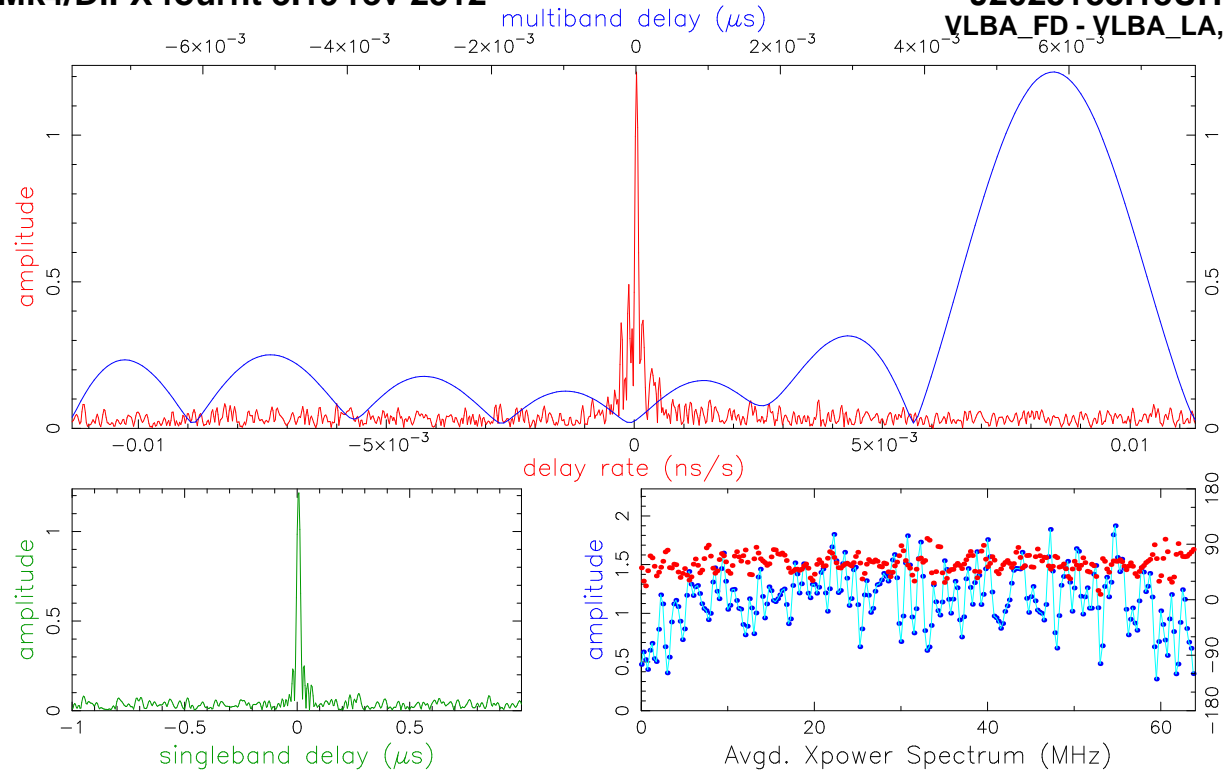
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-118.9	-129.7	-168.9	-170.0	-169.2	-164.6	-115.6	-103.7	Phase	-142.7
	1.0	1.2	0.9	0.8	0.5	0.6	0.6	0.4	Ampl.	0.7
	258.3	257.8	257.9	258.3	258.8	258.9	258.3	259.7	Sbd box	258.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	5.84102965591E+01	Apriori delay (usec)	5.84055493036E+01	Resid mbdelay (usec)	4.74726E-03	+/-	4.5E-05
Sband delay (usec)	5.84106528036E+01	Apriori clock (usec)	7.6065273E+00	Resid sbdelay (usec)	5.10350E-03	+/-	3.5E-04
Phase delay (usec)	5.84055447017E+01	Apriori clockrate (us/s)	2.6000000E-07	Resid phdelay (usec)	-4.60192E-06	+/-	1.5E-07
Delay rate (us/s)	3.45949822997E-02	Apriori rate (us/s)	3.45949382912E-02	Resid rate (us/s)	4.40085E-08	+/-	1.5E-09
Total phase (deg)	-136.6	Apriori accel (us/s/s)	-4.97565923825E-06	Resid phase (deg)	-142.7	+/-	4.7

ph/seg (deg)	RMS 35.7	Theor. 11.0	Amplitude Search (1024X32)	0.675 +/- 0.028	0.662	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	32.5	19.2	Interp.	0.000	0.662	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	30.6	6.6	Inc. seg. avg.	0.789	0.789	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s)	-0.011	0.011
amp/frq (%)	38.9	11.6	Inc. frq. avg.	0.732	0.732	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 69.5 el 39.4 pa -75.8 l: az 72.7 el 39.2 pa -68.9 u,v (fr/asec) -242.920 -812.499 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/fl..18UHRL Output file: /Exps/c201b/v1/1234/No0058/fl.W.39.18UHRL

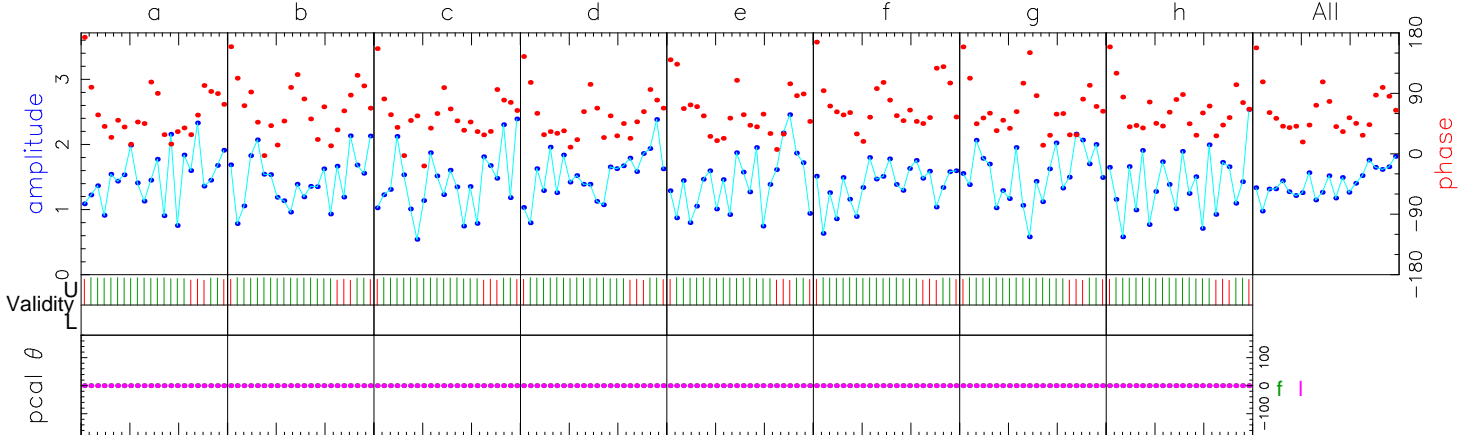


Fringe quality 8

SNR 44.7
Int time 174.392
Amp 1.238
Phase 61.3
PFD 0.0e+00
Delays (us)
SBD 0.006043
MBD 0.005741
Fringe rate (Hz) 0.003752
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143648
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

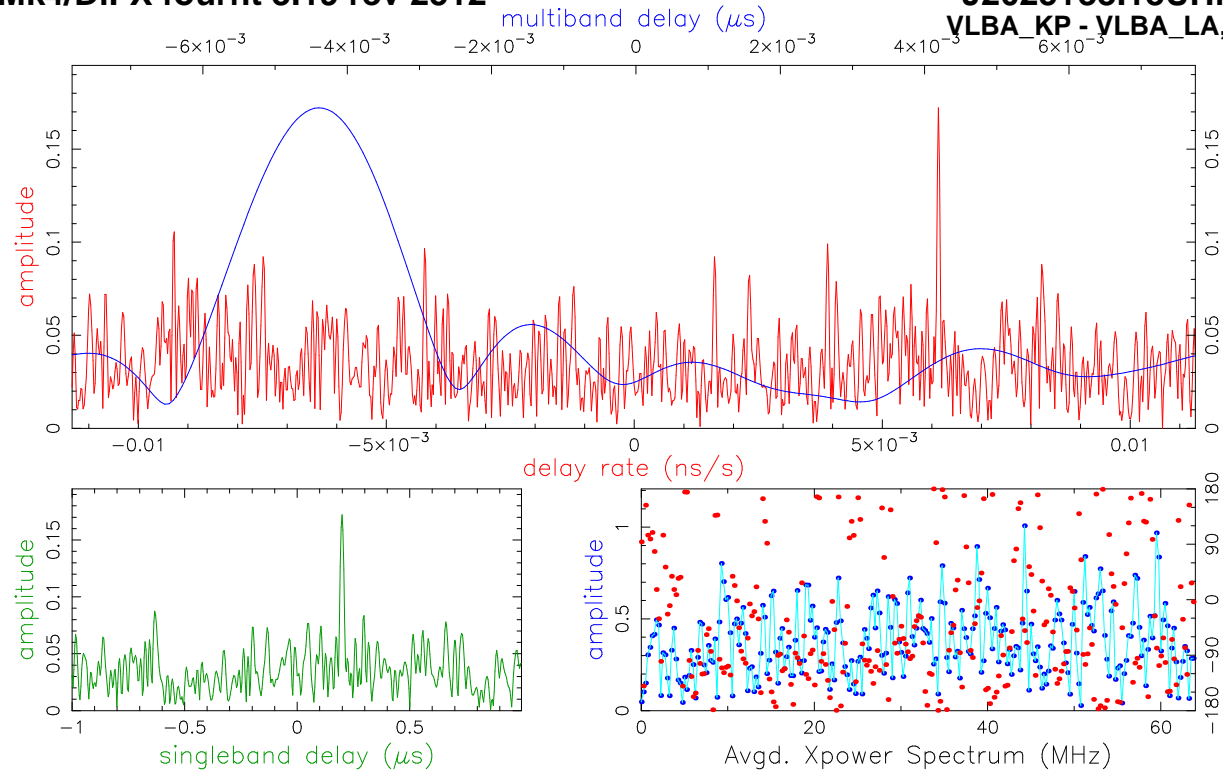
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	5.84112904029E+01	Apriori delay (usec)		5.84055493036E+01	Resid mbdelay (usec)		5.74110E-03	+/-	2.4E-05	
Sband delay (usec)	5.84115920536E+01	Apriori clock (usec)		7.6065273E+00	Resid sbdelay (usec)		6.04275E-03	+/-	1.9E-04	
Phase delay (usec)	5.84055512809E+01	Apriori clockrate (us/s)		2.6000000E-07	Resid phdelay (usec)		1.97727E-06	+/-	8.3E-08	
Delay rate (us/s)	3.45949818533E-02	Apriori rate (us/s)		3.45949382912E-02	Resid rate (us/s)		4.35621E-08	+/-	7.9E-10	
Total phase (deg)		67.4	Apriori accel (us/s/s)		-4.97565923825E-06	Resid phase (deg)		61.3	+/-	2.6

ph/seg (deg)	RMS 32.3	Theor. 6.0	Amplitude Search (1024X32)	1.238 +/- 0.028	1.211	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
amp/seg (%)	21.6	10.5	Interp.	0.000	1.399	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000		
ph/frq (deg)	7.1	3.6	Inc. seg. avg.	1.399	1.220	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	5.3	6.3	Inc. frq. avg.	1.220		Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011		
f: az 69.5 el 39.4 pa -75.8		l: az 72.7 el 39.2 pa -68.9		u,v (fr/asec) -242.920 -812.499		Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

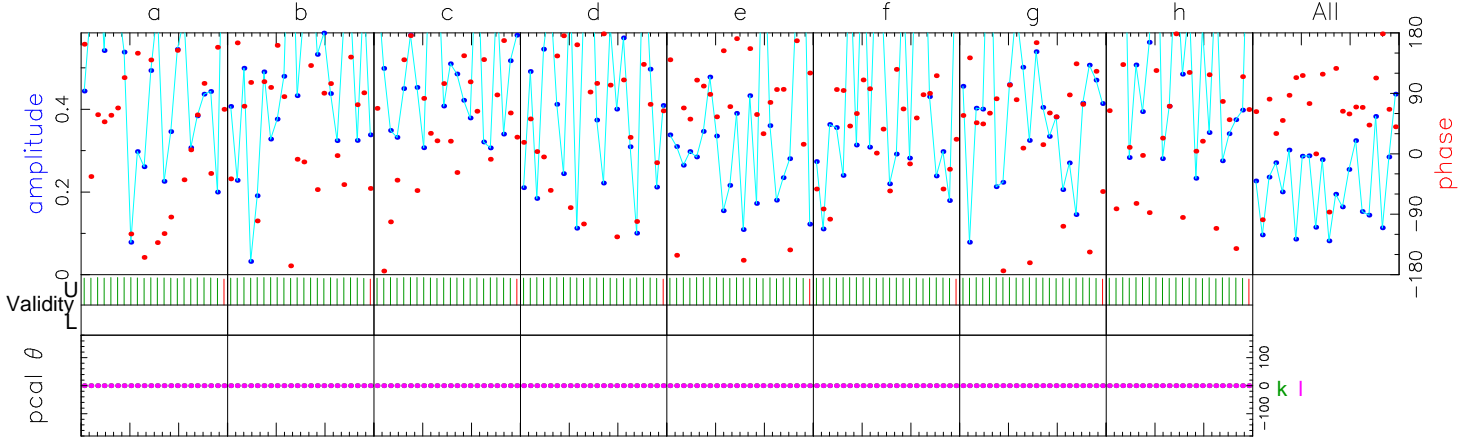


Fringe quality 0

SNR 6.3
 Int time 177.022
 Amp 0.195
 Phase 75.8
 PFD 4.9e-02
 Delays (us)
 SBD 0.199001
 MBD -0.004398
 Fringe rate (Hz) 0.529397
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143656
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



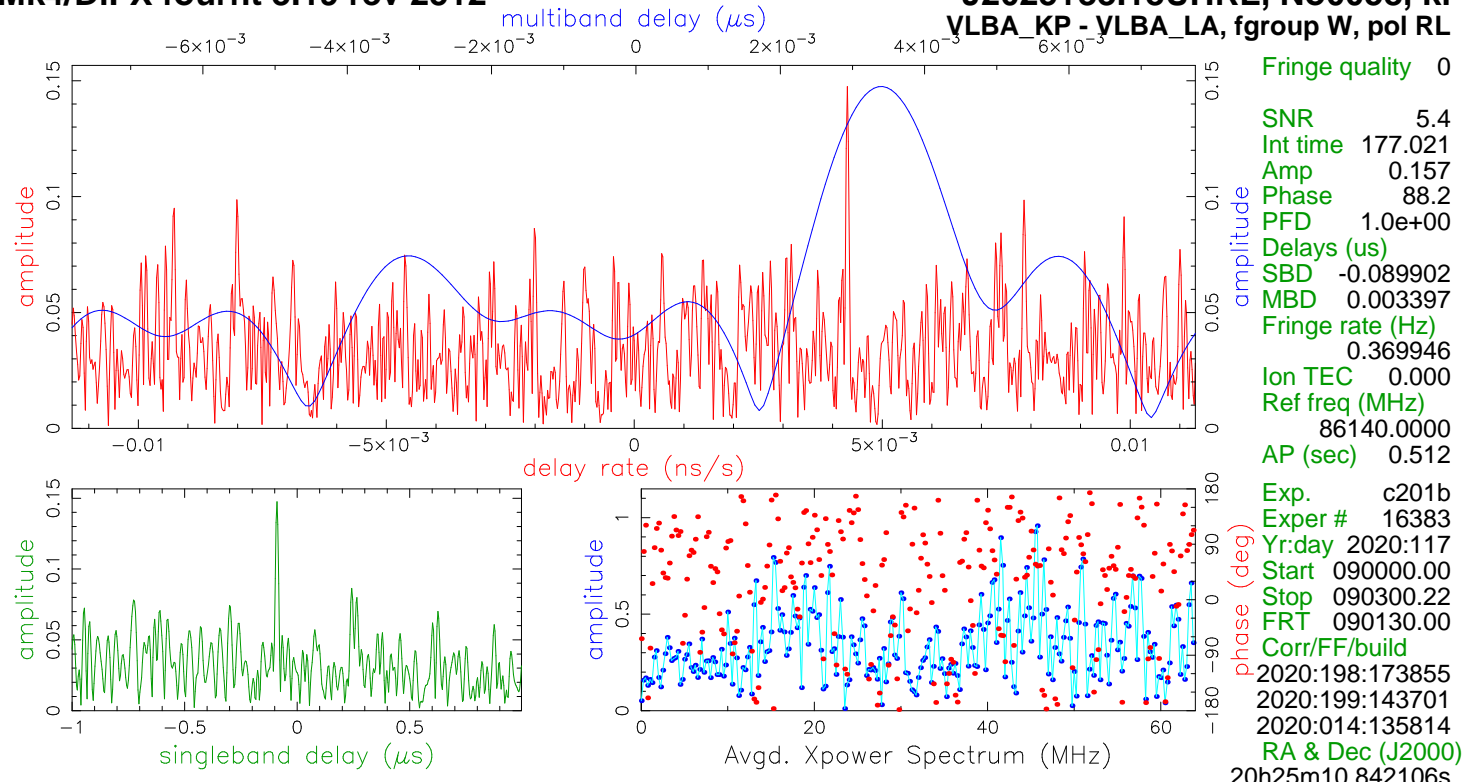
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0			
k	1000	1000	1000	1000	1000	1000	1000	1000			
l	1000	1000	1000	1000	1000	1000	1000	1000			
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
k	1000	1000	1000	1000	1000	1000	1000	1000			
l	1000	1000	1000	1000	1000	1000	1000	1000			
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)		-1.62424447732E+03				-1.62444320456E+03			Resid mbdelay (usec)	-4.39776E-03	+/- 1.7E-04
Sband delay (usec)		-1.62424420331E+03				3.3619728E+00			Resid sbdelay (usec)	1.99001E-01	+/- 1.4E-03
Phase delay (usec)		-1.62444320212E+03				1.5640000E-07			Resid phdelay (usec)	2.44289E-06	+/- 5.9E-07
Delay rate (us/s)		8.53347005546E-02				8.53285547823E-02			Resid rate (us/s)	6.14577E-06	+/- 5.7E-09
Total phase (deg)			-154.9			5.18650786143E-06			Resid phase (deg)	75.8	+/- 18.3

ph/seg (deg) 63.2 42.9 Search (1024X32) 0.164 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 62.7 74.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 16.9 25.9 Inc. seg. avg. 0.198 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 32.5 45.1 Inc. frq. avg. 0.183 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 68.2 el 33.7 pa -71.5 l: az 72.7 el 39.2 pa -68.9 u,v (fr/asec) -584.929 -131.595 ion window (TEC) 0.00 0.00
 simultaneous interpolator

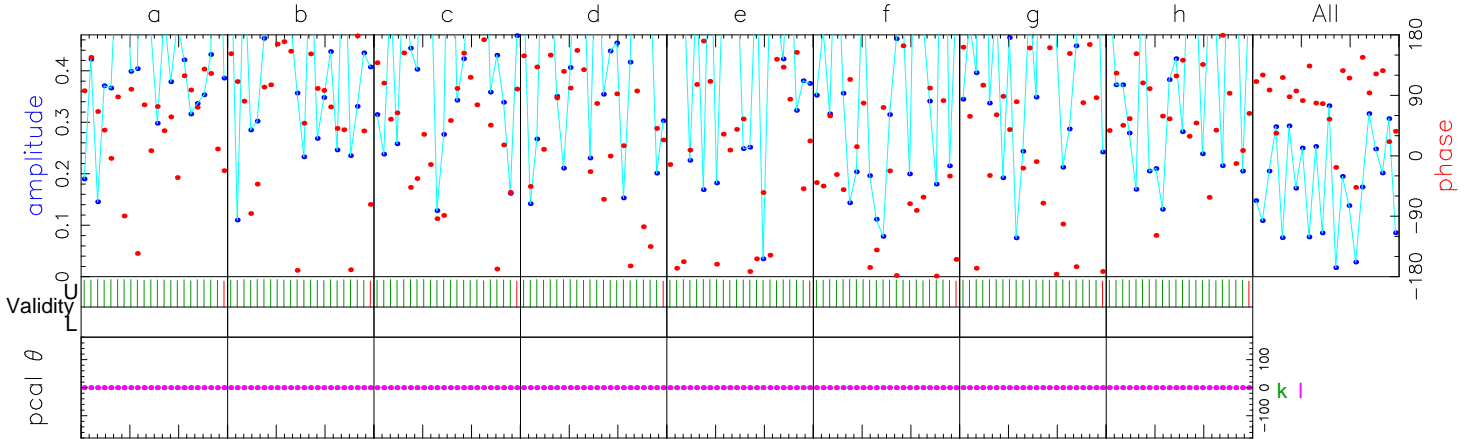
Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, kl

VLBA_KP - VLBA_LA, fgroup W, pol RL



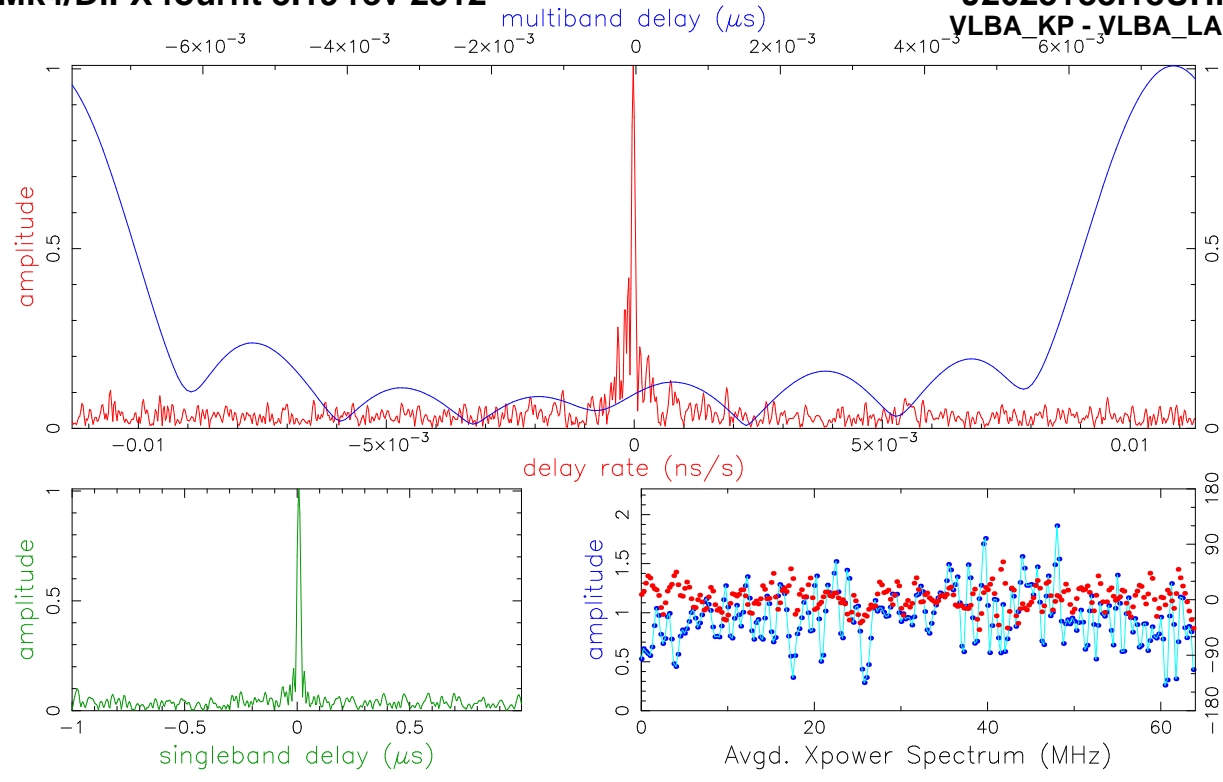
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.62453355758E+03				-1.62444320456E+03				3.39698E-03	+/- 2.0E-04
Sband delay (usec)	-1.62453310631E+03				3.3619728E+00				-8.99018E-02	+/- 1.6E-03
Phase delay (usec)	-1.62444320172E+03				1.5640000E-07				2.84342E-06	+/- 6.9E-07
Delay rate (us/s)	8.53328494889E-02				8.53285547823E-02				4.29471E-06	+/- 6.6E-09
Total phase (deg)			-142.5		5.18650786143E-06				88.2	+/- 21.3
RMS	49.4	50.1			0.157 +/- 0.029					
ph/seg (deg)	49.4	50.1			0.146					
amp/seg (%)	68.2	87.4			0.000					
ph/frq (deg)	55.0	30.2			0.140					
amp/frq (%)	43.4	52.7			0.162					
PCal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5							
PCal rate:	0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us) -1.000 1.000		dr window (ns/s) -0.011 0.011		ion window (TEC) 0.00 0.00	
Bits/sample:	2x2		Sample rate(MISamp/s): 128		nlags: 256 t_cohere infinite					
Data rate(Mb/s):	2048									

k: az 68.2 el 33.7 pa -71.5 l: az 72.7 el 39.2 pa -68.9 u,v (fr/asec) -584.929 -131.595 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/kl..18UHRL Output file: /Exps/c201b/v1/1234/No0058/kl.W.138.18UHRL

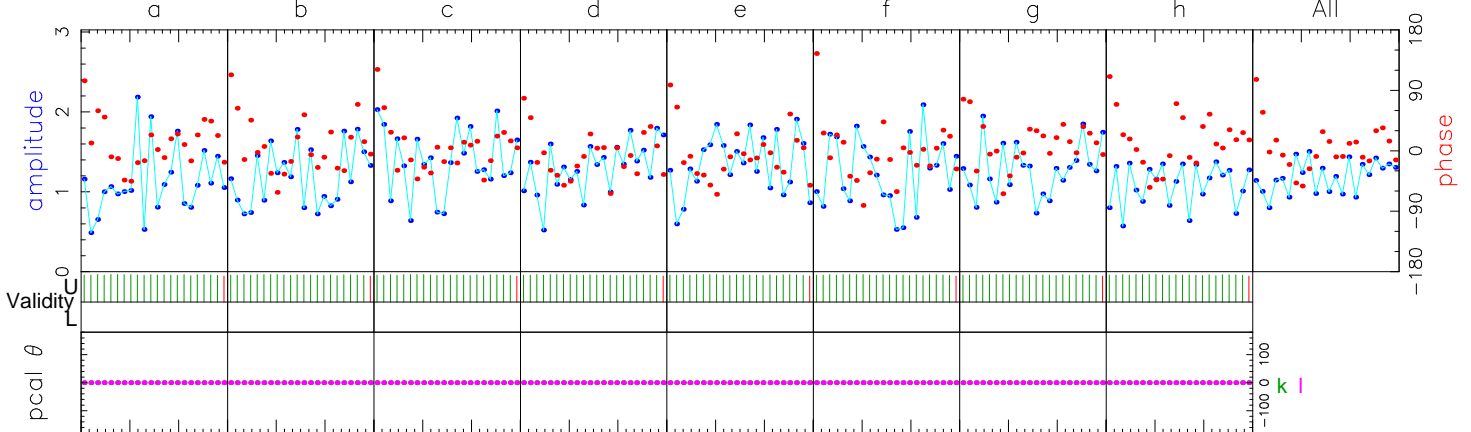


Fringe quality 8

SNR 36.7
Int time 177.021
Amp 1.010
Phase 2.1
PFD 0.0e+00
Delays (us)
SBD 0.007374
MBD 0.007437
Fringe rate (Hz)
-0.002141
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

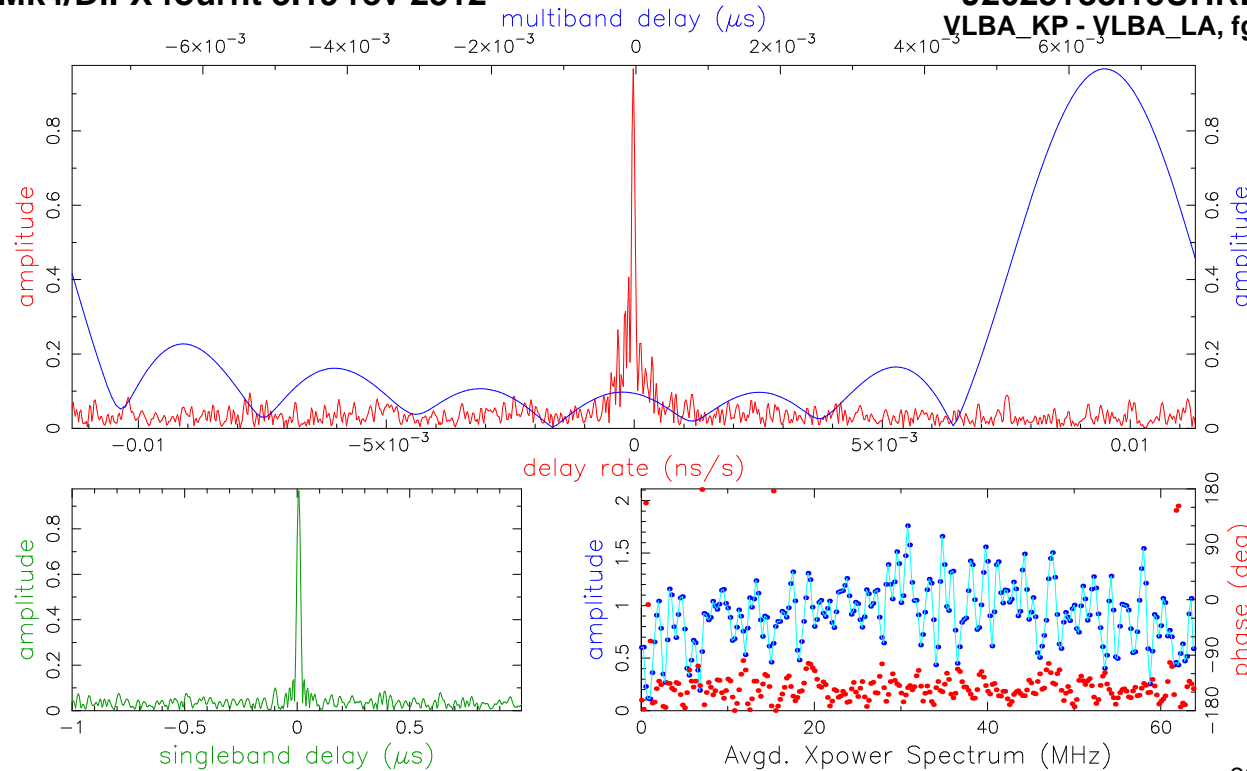
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143652
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.62443576720E+03									
Sband delay (usec)	-1.62443583006E+03									
Phase delay (usec)	-1.62444320449E+03									
Delay rate (us/s)	8.53285299261E-02									
Total phase (deg)			-228.6							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 33.7 7.3 Search (1024X32) 0.999 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 26.3 12.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 10.5 4.4 Inc. seg. avg. 1.180 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 9.2 7.7 Inc. frq. avg. 1.018 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 68.2 el 33.7 pa -71.5 l: az 72.7 el 39.2 pa -68.9 u,v (fr/asec) -584.929 -131.595 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/kl.18UHRL Output file: /Exps/c201b/v1/1234/No0058/kl.W.90.18UHRL

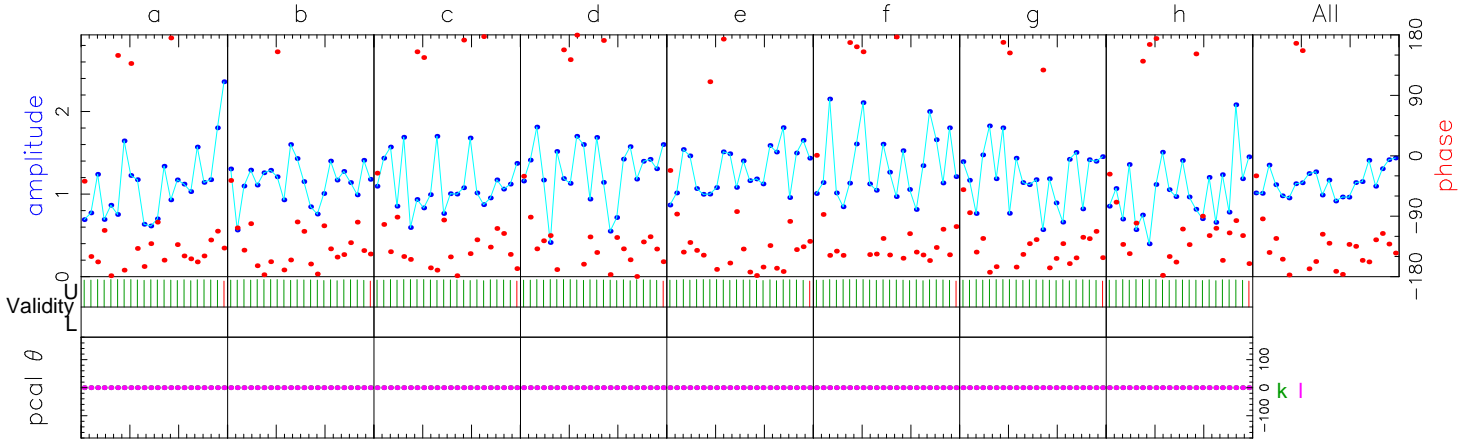


Fringe quality 8

SNR 35.5
Int time 177.022
Amp 0.976
Phase -145.1
PFD 0.0e+00
Delays (us)
SBD 0.006518
MBD 0.006469
Fringe rate (Hz)
-0.002137
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143653
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

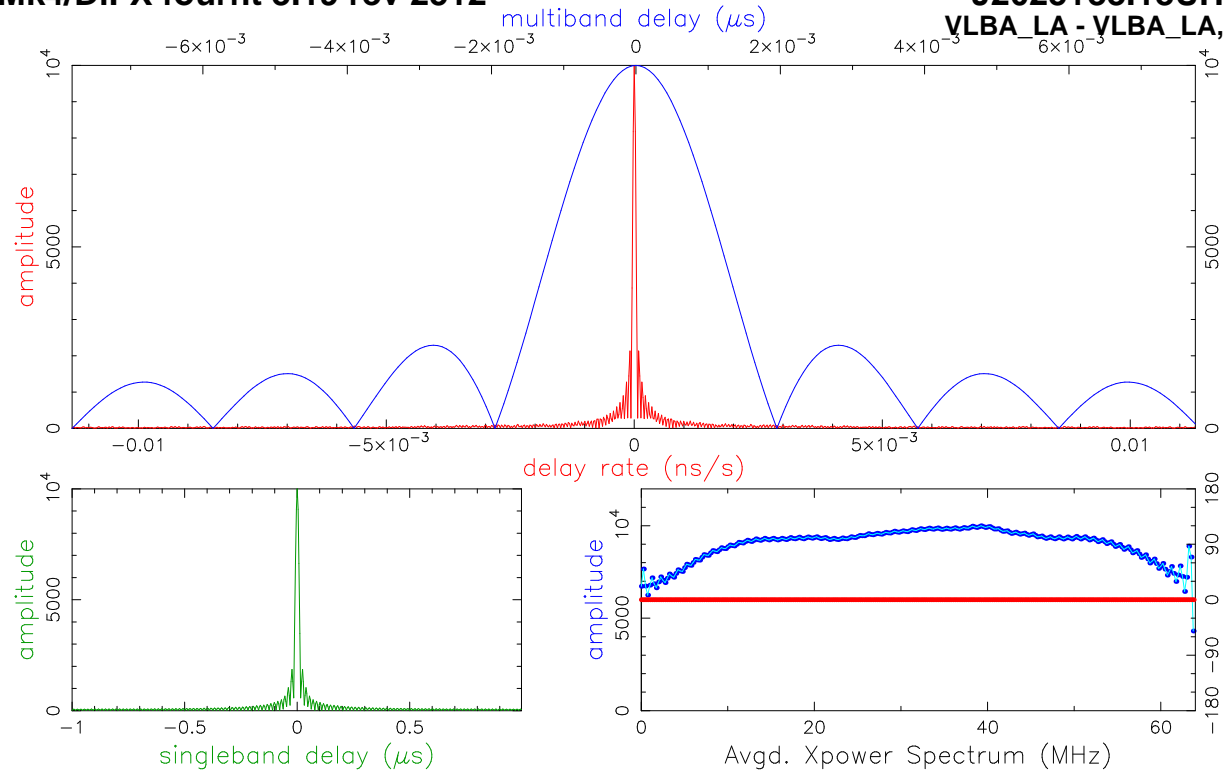
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.62443673548E+03	-1.62443668656E+03	-1.6244320924E+03	-1.6244320924E+03	-1.6244320924E+03	-1.6244320924E+03	-1.6244320924E+03	-1.6244320924E+03		
Sband delay (usec)	-1.62443668656E+03	-1.62443668656E+03	-1.6244320924E+03	-1.6244320924E+03	-1.6244320924E+03	-1.6244320924E+03	-1.6244320924E+03	-1.6244320924E+03		
Phase delay (usec)	-1.6244320924E+03	-1.6244320924E+03	-1.6244320924E+03	-1.6244320924E+03	-1.6244320924E+03	-1.6244320924E+03	-1.6244320924E+03	-1.6244320924E+03		
Delay rate (us/s)	8.53285299686E-02	8.53285299686E-02	8.53285299686E-02	8.53285299686E-02	8.53285299686E-02	8.53285299686E-02	8.53285299686E-02	8.53285299686E-02		
Total phase (deg)			-15.7							
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										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
PC period (AP's) 5, 5										
SampCntNorm: enabled										
nlags: 256 t_cohere infinite										
simultaneous interpolator										

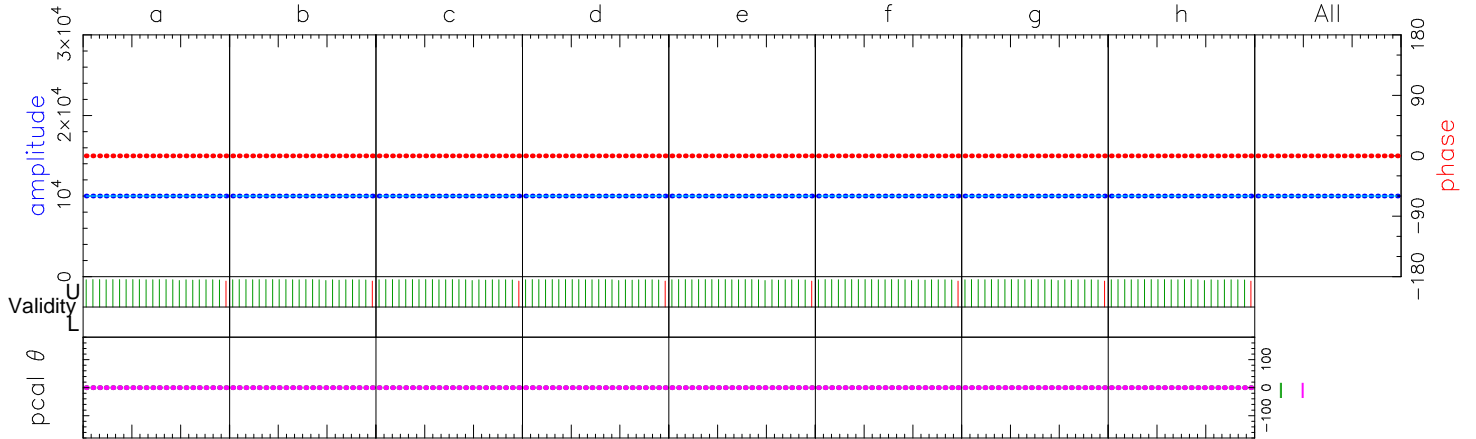
k: az 68.2 el 33.7 pa -71.5 l: az 72.7 el 39.2 pa -68.9 u,v (fr/asec) -584.929 -131.595

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/kl..18UHRL Output file: /Exps/c201b/v1/1234/No0058/kl.W.96.18UHRL



Fringe quality 9
SNR 365212.6
Int time 178.359
Amp 10000.006
Phase -0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Yr:day 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143656
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	10000.0
	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	0.0000000000E+00								Resid mbdelay (usec)	0.00000E+00 +/- 3.0E-09
Sband delay (usec)	0.0000000000E+00								Resid sbdelay (usec)	0.00000E+00 +/- 2.4E-08
Phase delay (usec)	-8.50981637503E-21								Resid phdelay (usec)	-8.50982E-21 +/- 1.0E-11
Delay rate (us/s)	0.0000000000E+00								Resid rate (us/s)	0.00000E+00 +/- 9.7E-14
Total phase (deg)			-0.0						Resid phase (deg)	-0.0 +/- 0.0

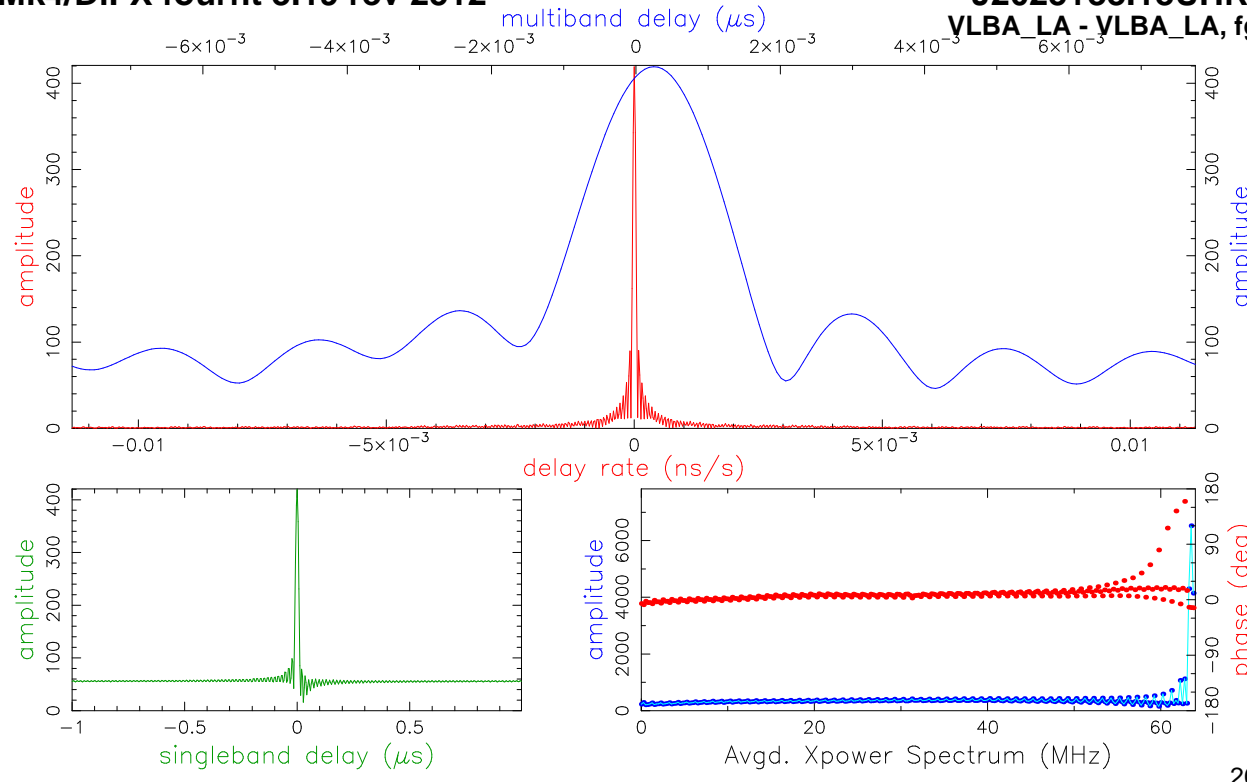
ph/seg (deg) 0.0 0.0
amp/seg (%) 0.0 0.0
ph/frq (deg) 0.0 0.0
amp/frq (%) 0.0 0.0

l: az 72.7 el 39.2 pa -68.9
Control file: cf_1234_gmva

l: az 72.7 el 39.2 pa -68.9
Input file: /Exps/c201b/v1/1234/No0058/ll..18UHRL

u,v (fr/asec) 0.000 0.000
Output file: /Exps/c201b/v1/1234/No0058/ll.W.106.18UHRL

simultaneous interpolator

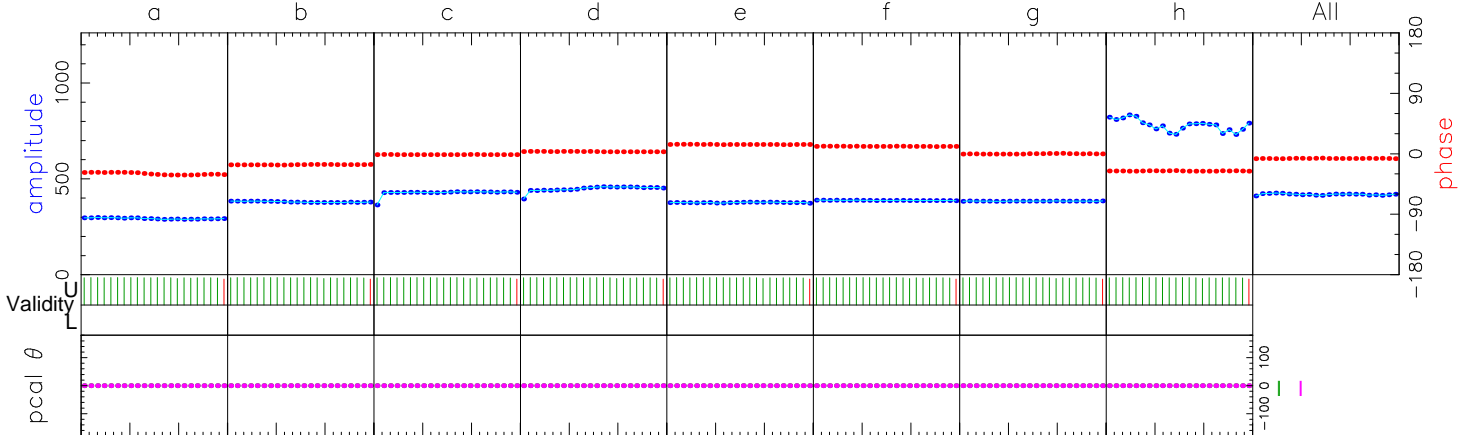


Fringe quality 7

SNR 15364.3
 Int time 178.359
 Amp 420.696
 Phase -7.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.000698
 MBD 0.000258
 Fringe rate (Hz) 0.000007
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143658
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



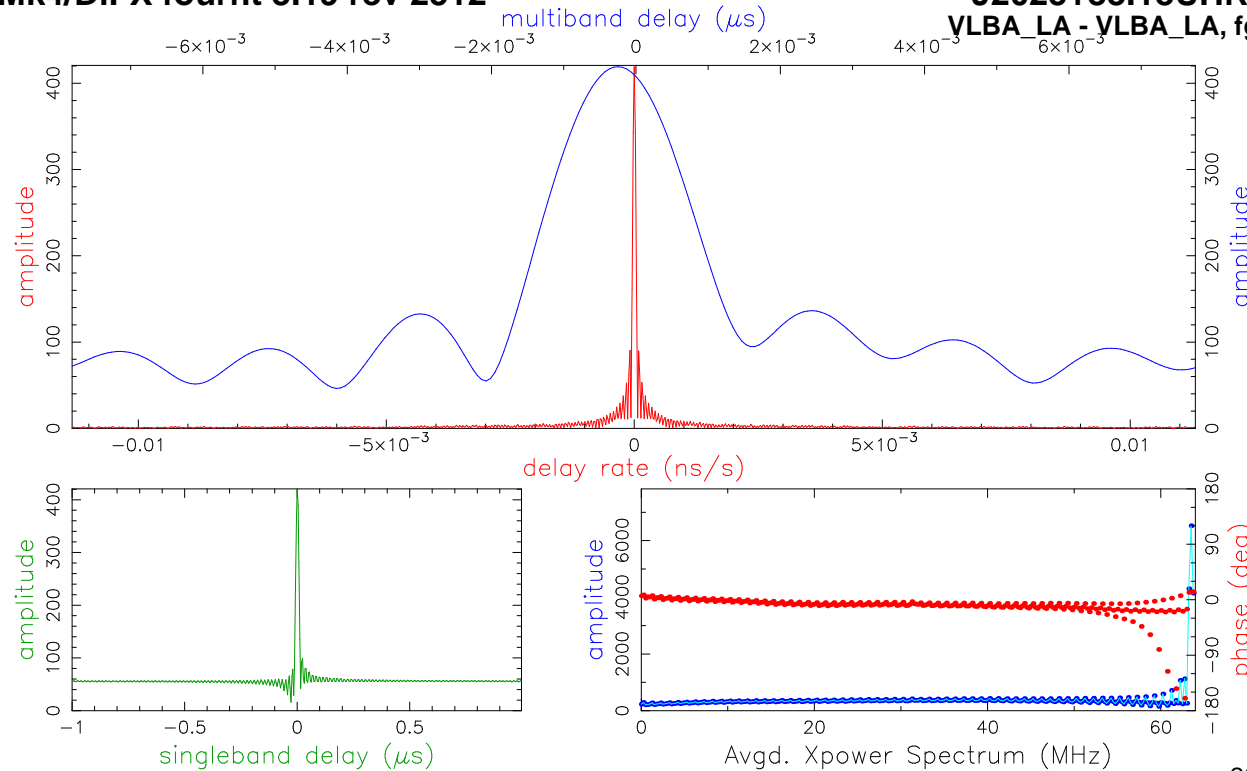
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-29.6	-16.2	-1.2	3.2	13.9	11.1	-0.0	-25.6	Phase	-7.0
	293.3	380.0	427.6	448.1	376.6	387.8	384.0	780.2	Ampl.	434.7
	257.2	257.2	256.9	257.3	257.1	256.8	257.0	256.8	Sbd box	256.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.57875000000E-04		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		2.57875E-04	+/- 7.1E-08
Sband delay (usec)	-6.98250000000E-04		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-6.98250E-04	+/- 5.6E-07
Phase delay (usec)	-2.24531354654E-07		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-2.24531E-07	+/- 2.4E-10
Delay rate (us/s)	8.36097991109E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		8.36098E-11	+/- 2.3E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-7.0	+/- 0.0

ph/seg (deg) 0.2 0.0 Search (1024X32) 420.696 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.0 0.0 Interp. 408.610 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 17.7 0.0 Inc. seg. avg. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 32.8 0.0 Inc. frq. avg. 419.195 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 l: az 72.7 el 39.2 pa -68.9 i: az 72.7 el 39.2 pa -68.9 u,v (fr/asec) 0.000 0.000 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/ll..18UHRL Output file: /Exps/c201b/v1/1234/No0058/ll.W.124.18UHRL simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

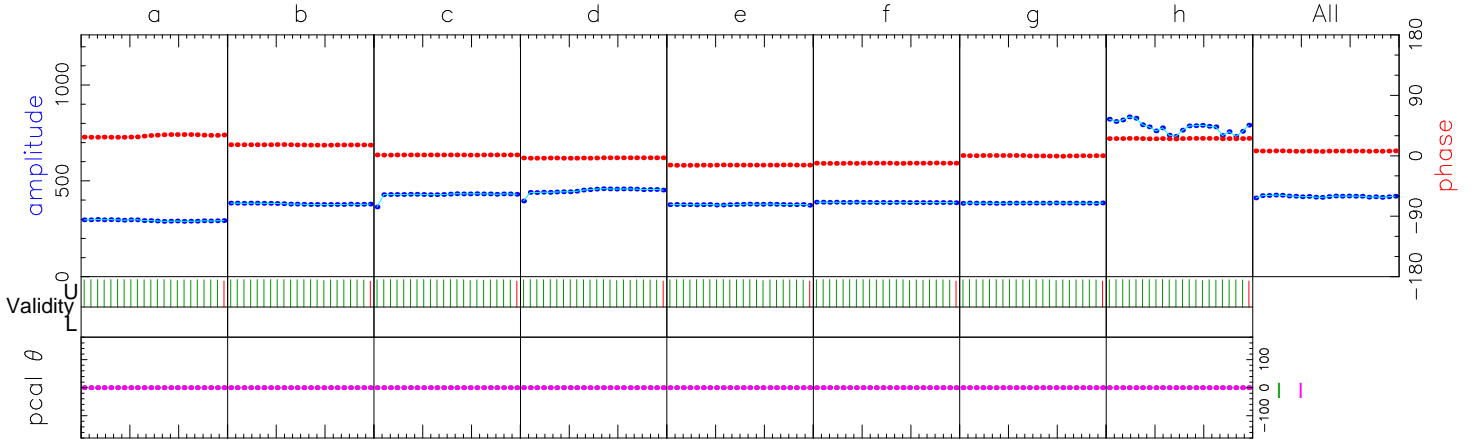
J2025+33.18UHRL, No0058, II

VLBA_LA - VLBA_LA, fgroup W, pol RL



Fringe quality 7
 SNR 15364.3
 Int time 178.359
 Amp 420.695
 Phase 7.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000698
 MBD -0.000258
 Fringe rate (Hz)
 -0.000007
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143702
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

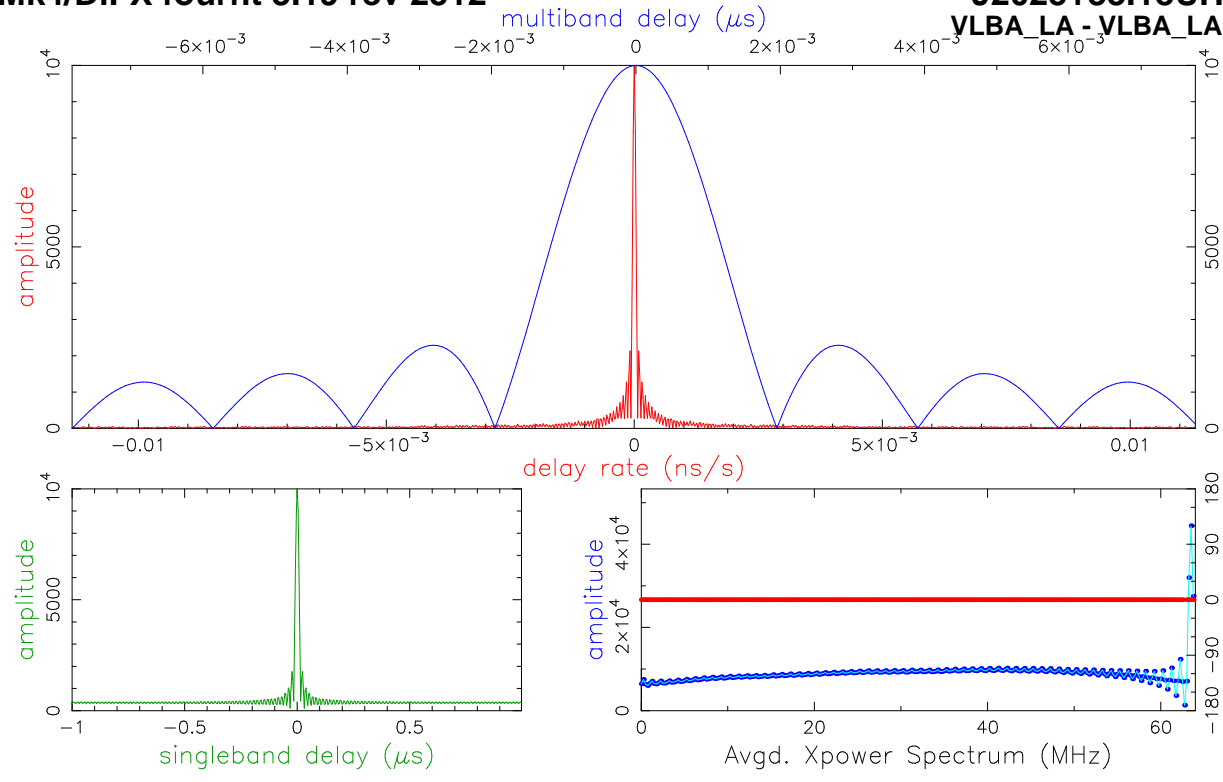


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	434.7
	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.2
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
:	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) -2.57875000000E-04 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) -2.57875E-04 +/- 7.1E-08
 Sband delay (usec) 6.98250000000E-04 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 6.98250E-04 +/- 5.6E-07
 Phase delay (usec) 2.24531354597E-07 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 2.24531E-07 +/- 2.4E-10
 Delay rate (us/s) -8.36097991109E-11 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -8.36098E-11 +/- 2.3E-12
 Total phase (deg) 7.0 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 7.0 +/- 0.0

RMS Theor. Amplitude 420.695 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.2 0.0 Search (1024X32) 408.609 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 1.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 17.7 0.0 Inc. seg. avg. 419.193 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 32.8 0.0 Inc. frq. avg. 434.703 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 72.7 el 39.2 pa -68.9 i: az 72.7 el 39.2 pa -68.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/ll..18UHRL Output file: /Exps/c201b/v1/1234/No0058/ll.W.141.18UHRL

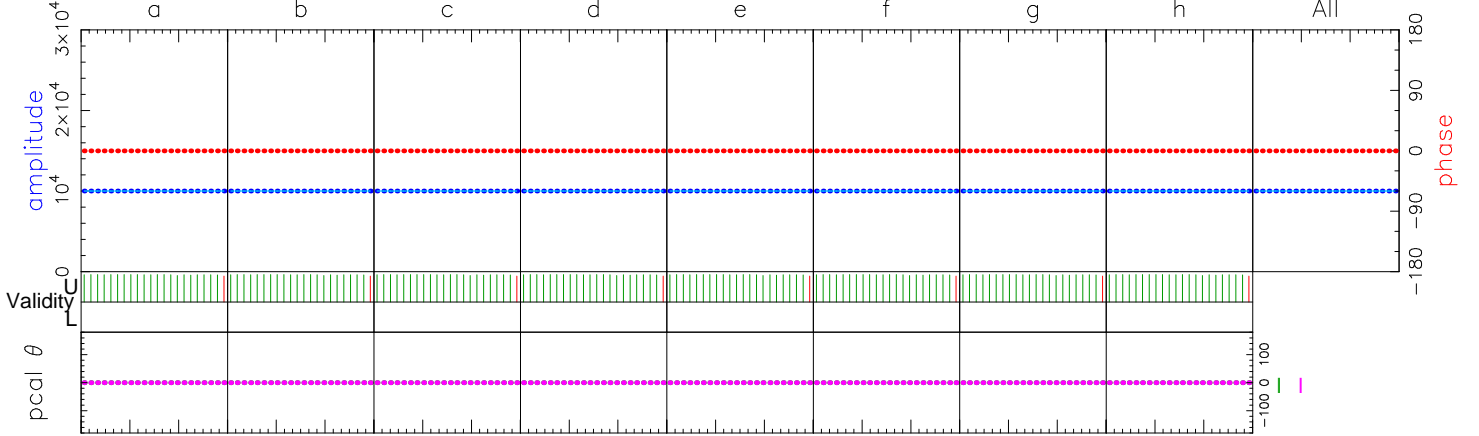


Fringe quality 9

SNR 365212.1
Int time 178.359
Amp 10000.008
Phase -0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143654
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

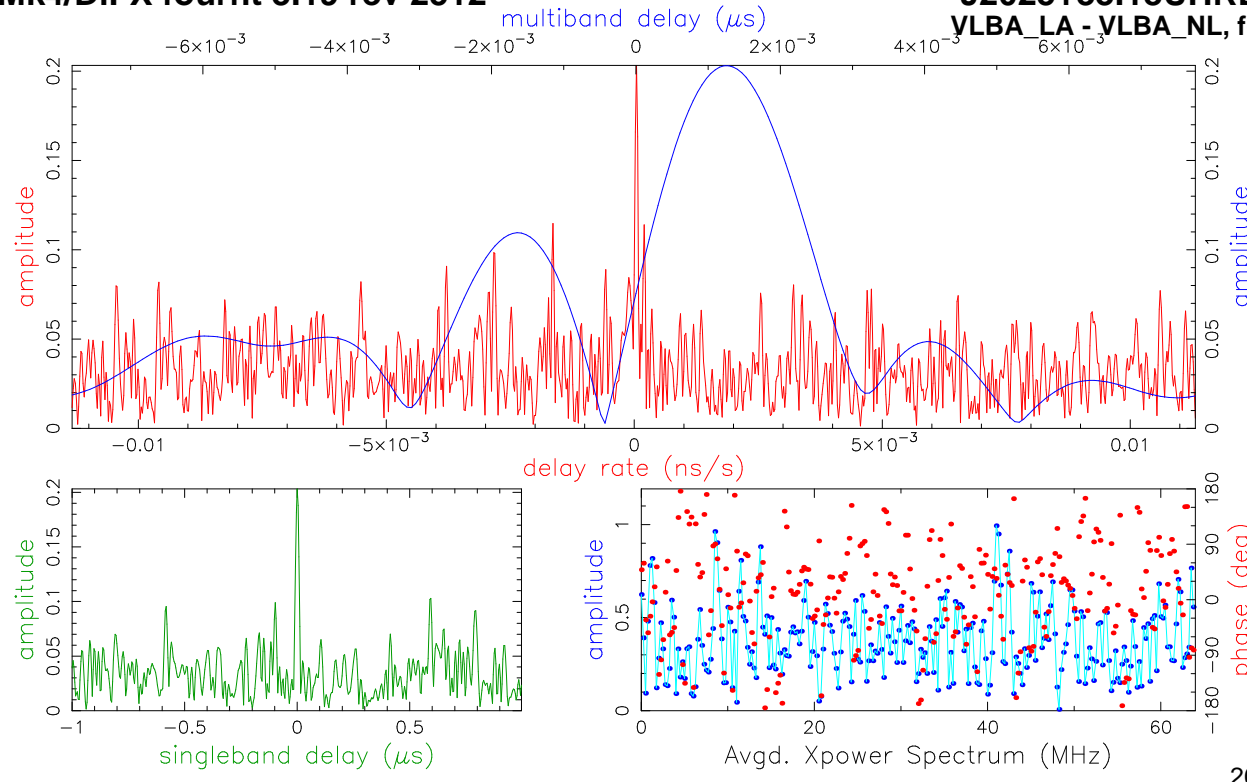
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
	1000	1000	1000	1000	1000	1000	1000	1000		
	1000	1000	1000	1000	1000	1000	1000	1000		
:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
	1000	1000	1000	1000	1000	1000	1000	1000		
	1000	1000	1000	1000	1000	1000	1000	1000		
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

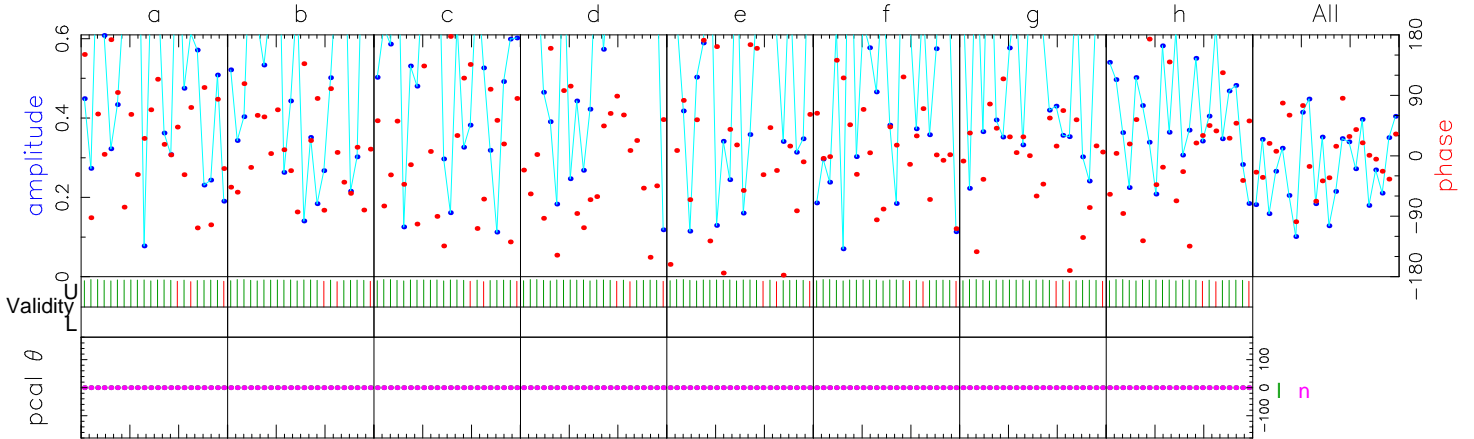
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	3.0E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	2.4E-08
Phase delay (usec)	-2.61631969155E-19	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.61632E-19	+/-	1.0E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	9.7E-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	10000.009 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.0	0.0	0.0	Search (1024X32)	10000.008	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.	10000.008	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

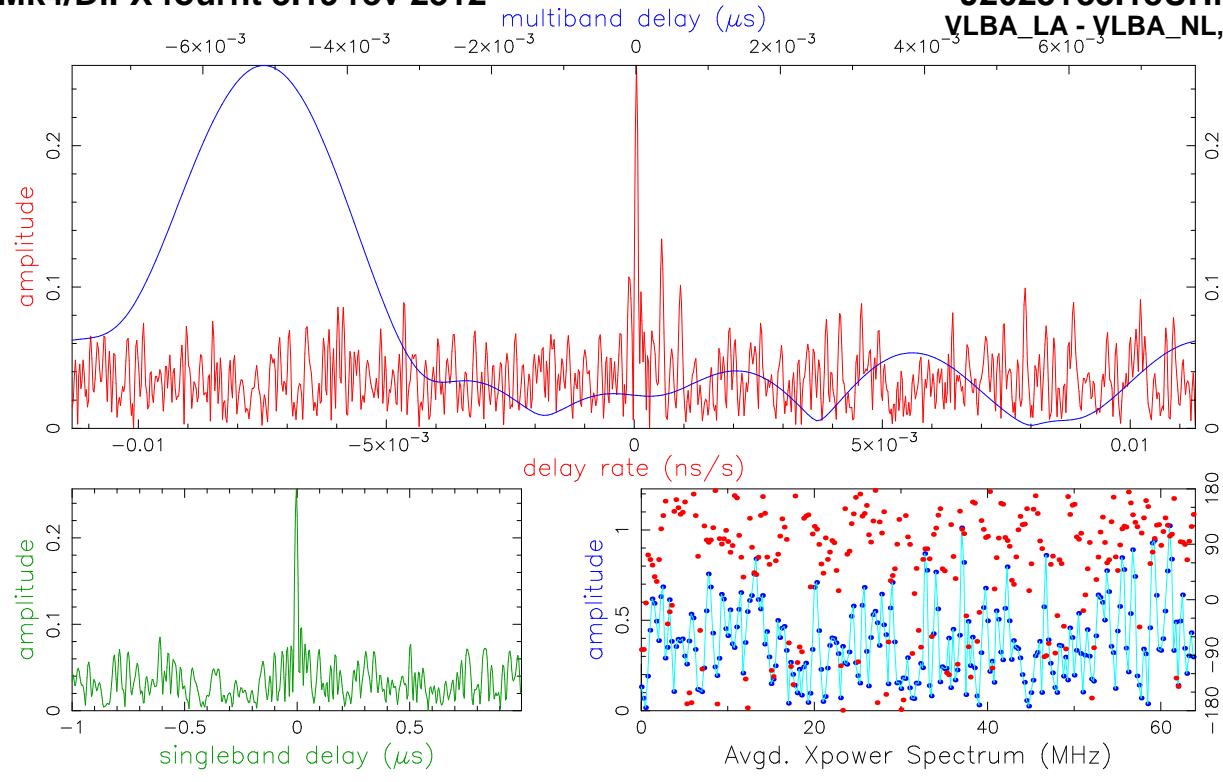


Fringe quality 9
 SNR 7.3
 Int time 174.712
 Amp 0.203
 Phase 10.3
 PFD 3.2e-05
 Delays (us)
 SBD 0.000356
 MBD 0.001272
 Fringe rate (Hz) 0.003550
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143656
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-3.23155050677E+03				-3.23155177905E+03				1.27229E-03	+/- 1.5E-04
Sband delay (usec)	-3.23155142305E+03				-3.5997139E+01				3.56000E-04	+/- 1.2E-03
Phase delay (usec)	-3.23155177872E+03				-4.8500001E-07				3.33582E-07	+/- 5.0E-07
Delay rate (us/s)	2.15370320849E-01				2.15370279639E-01				4.12097E-08	+/- 4.8E-09
Total phase (deg)			-78.8		1.18866935474E-05				10.3	+/- 15.6
	RMS	Theor.	Amplitude	0.203 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	46.8	36.6	Search (1024X32)	0.198	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	60.4	63.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	20.2	22.1	Inc. seg. avg.	0.230	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	38.2	38.5	Inc. frq. avg.	0.196	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

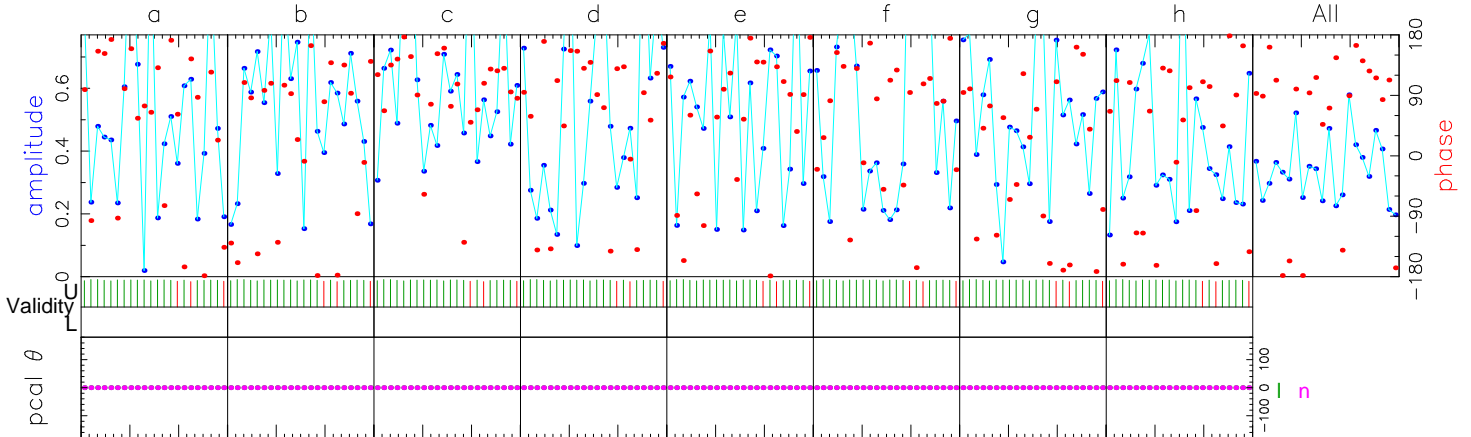


Fringe quality 9

SNR 9.3
 Int time 174.713
 Amp 0.257
 Phase 121.4
 PFD 3.3e-12
 Delays (us)
 SBD -0.004015
 MBD -0.005156
 Fringe rate (Hz) 0.003084
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143700
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

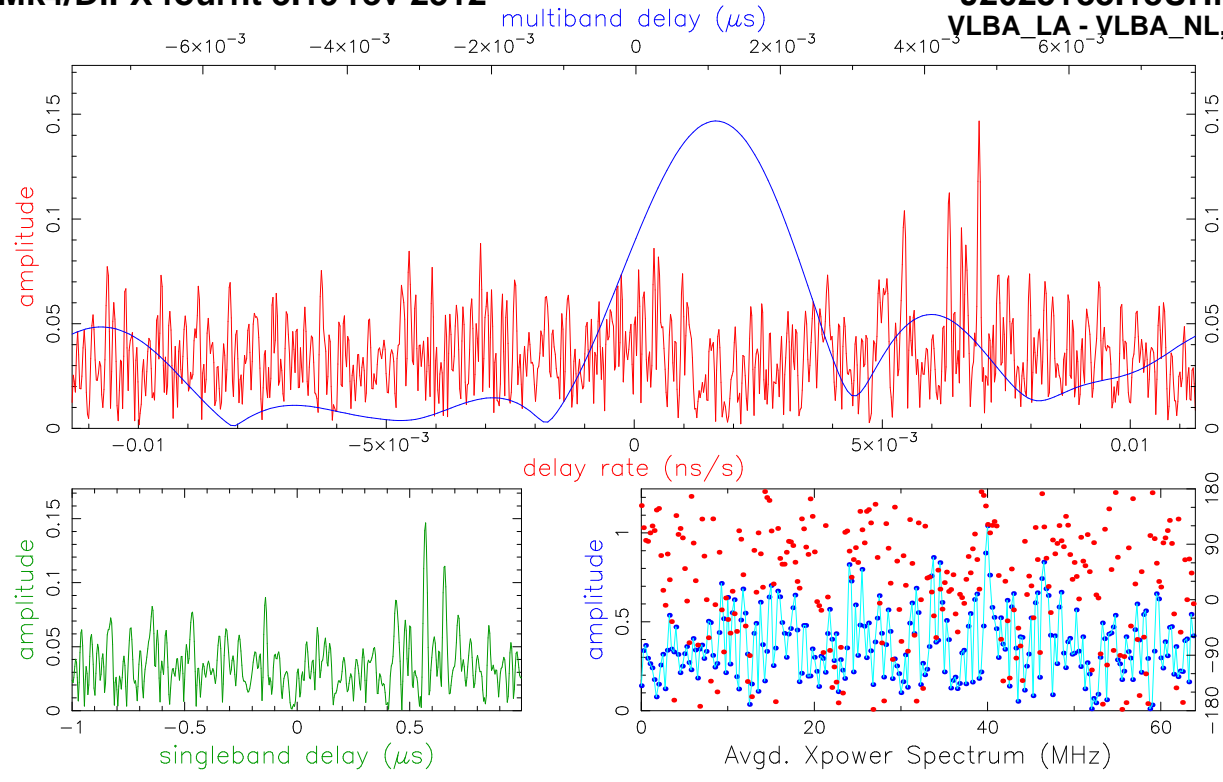
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.23155693536E+03				-3.23155177905E+03				-5.15631E-03	+/- 1.2E-04
Sband delay (usec)	-3.23155579405E+03				-3.5997139E+01				-4.01500E-03	+/- 9.3E-04
Phase delay (usec)	-3.23155177514E+03				-4.8500001E-07				3.91618E-06	+/- 4.0E-07
Delay rate (us/s)	2.15370315445E-01				2.15370279639E-01				3.58063E-08	+/- 3.8E-09
Total phase (deg)			32.3		1.18866935474E-05				121.4	+/- 12.3
	RMS	Theor.	Amplitude	0.257 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	46.3	29.0	Search (1024X32)	0.246	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	51.7	50.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	7.5	17.5	Inc. seg. avg.	0.305	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	40.3	30.5	Inc. frq. avg.	0.247	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

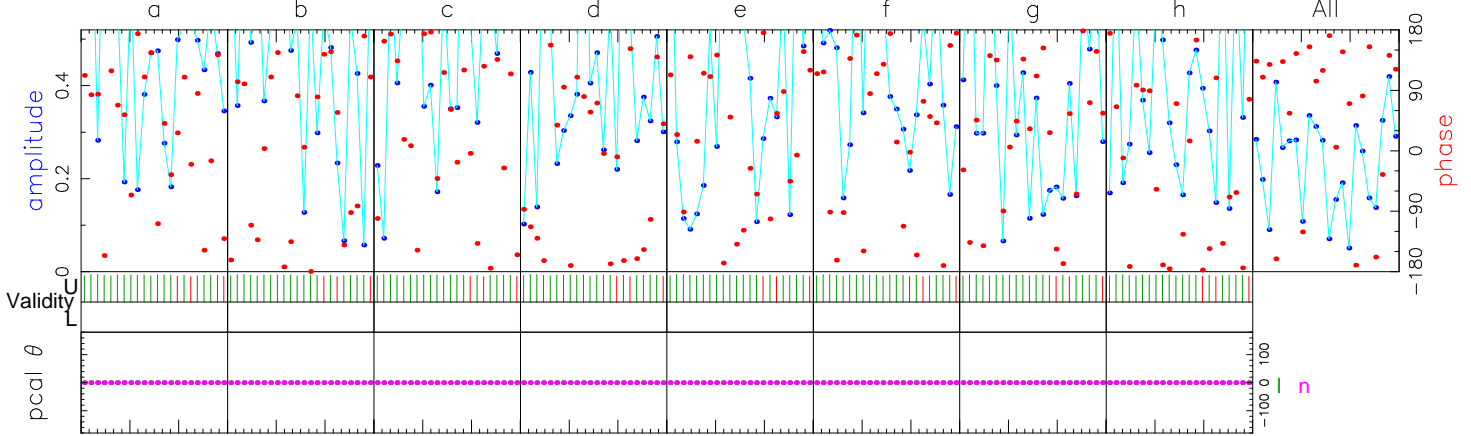
l: az 72.7 el 39.2 pa -68.9 n: az 85.8 el 51.6 pa -63.4 u,v (fr/asec) -1476.432 33.209 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/In..18UHRL Output file: /Exps/c201b/v1/1234/No0058/In.W.133.18UHRL



Fringe quality 0
 SNR 5.3
 Int time 174.712
 Amp 0.173
 Phase 136.5
 PFD 1.0e+00
 Delays (us)
 SBD 0.569306
 MBD 0.001084
 Fringe rate (Hz) 0.600440
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143703
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

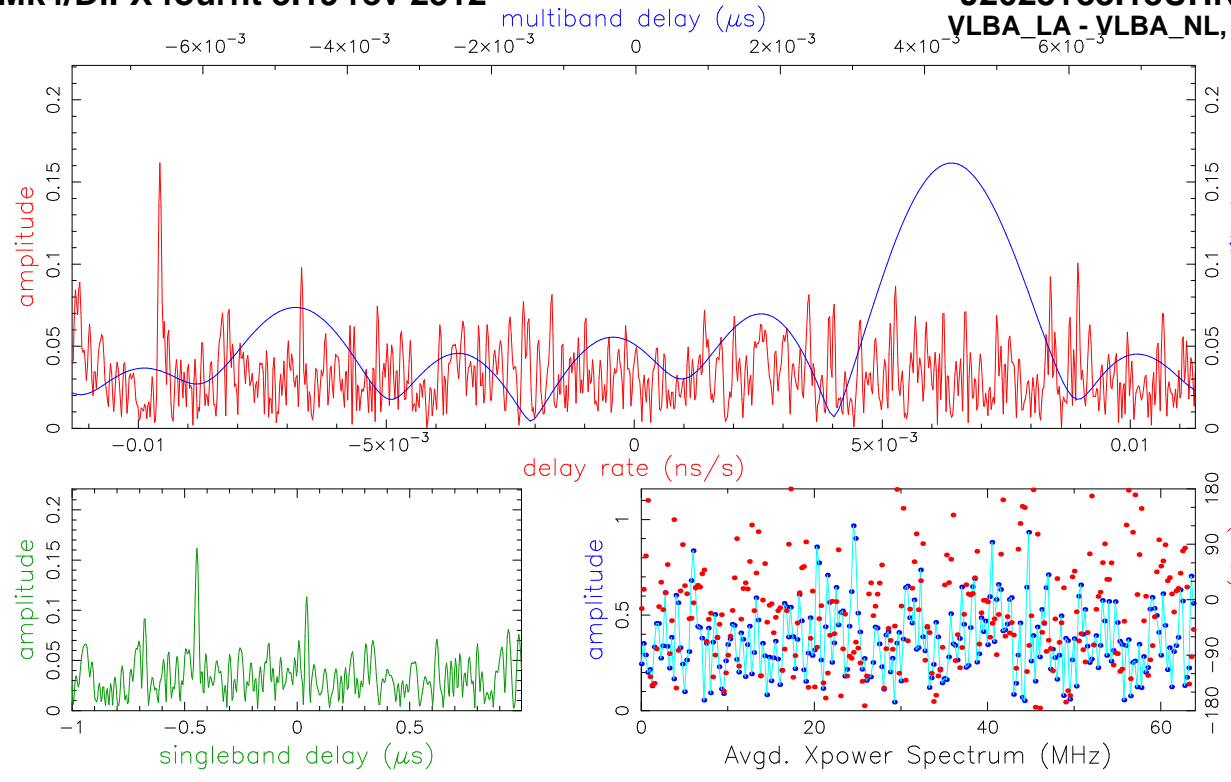
Group delay (usec)(sbd)	-3.23098819485E+03	Apriori delay (usec)	-3.23155177905E+03	Resid mbdelay (usec)	1.08420E-03	+/-	2.0E-04
Sband delay (usec)	-3.23098247330E+03	Apriori clock (usec)	-3.5997139E+01	Resid sbdelay (usec)	5.69306E-01	+/-	1.6E-03
Phase delay (usec)	-3.23155177465E+03	Apriori clockrate (us/s)	-4.8500001E-07	Resid phdelay (usec)	4.40324E-06	+/-	6.9E-07
Delay rate (us/s)	2.15377250154E-01	Apriori rate (us/s)	2.15370279639E-01	Resid rate (us/s)	6.97051E-06	+/-	6.7E-09
Total phase (deg)	47.4	Apriori accel (us/s/s)	1.18866935474E-05	Resid phase (deg)	136.5	+/-	21.5

ph/seg (deg)	63.0	Theor.	50.4	Amplitude	0.173 +/- 0.032	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	92.3	Search (1024X32)	0.145	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	19.6	Inc. seg. avg.	0.201	Inc. frq. avg.	0.159	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	28.8	Inc. frq. avg.	0.159			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

l: az 72.7 el 39.2 pa -68.9 n: az 85.8 el 51.6 pa -63.4 u,v (fr/asec) -1476.432 33.209 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/In..18UHRL Output file: /Exps/c201b/v1/1234/No0058/In.W.151.18UHRL

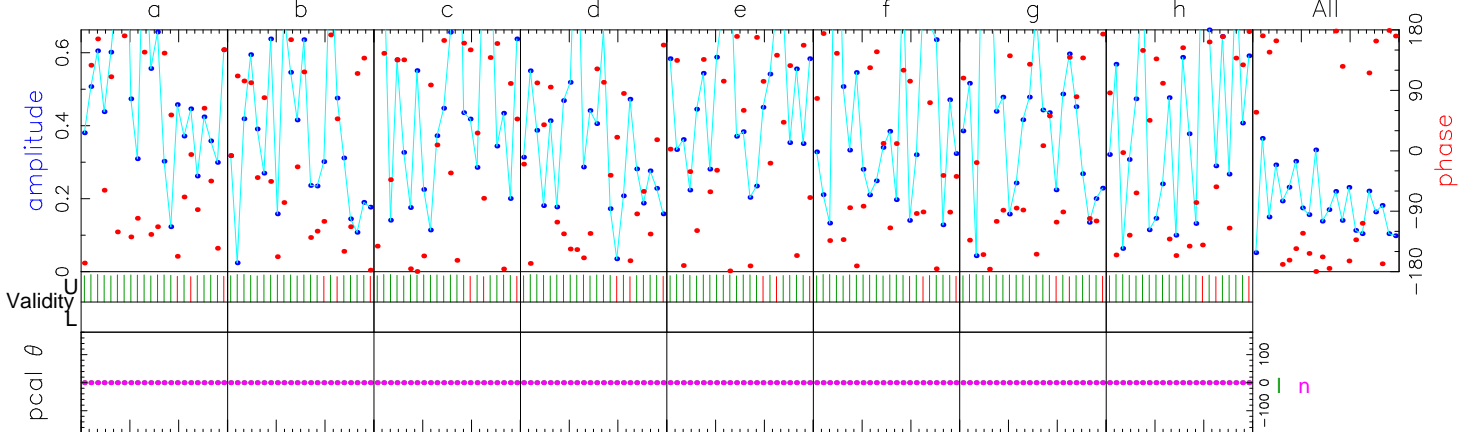
Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, In VLBA_LA - VLBA_NL, fgroup W, pol RL



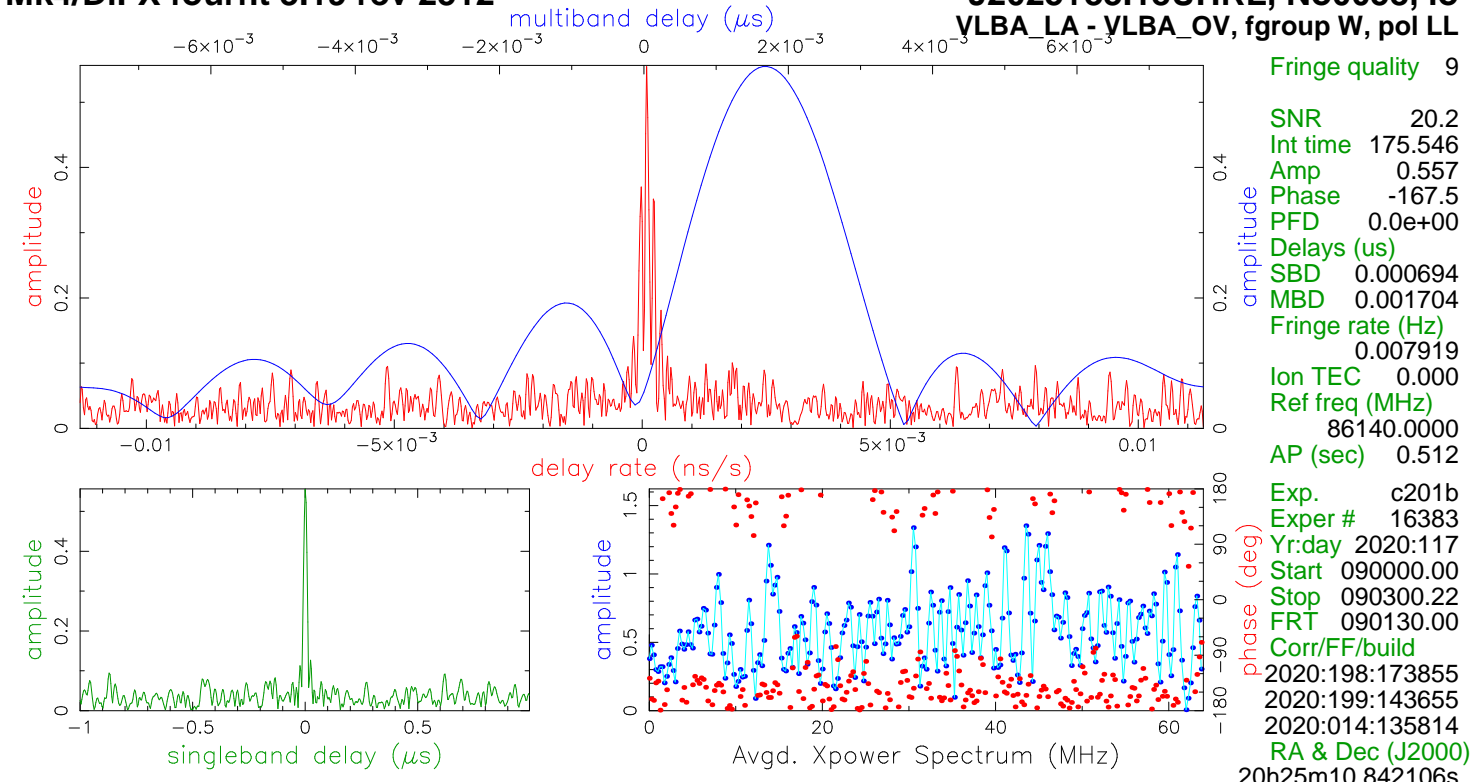
Fringe quality 0
 SNR 5.8
 Int time 174.713
 Amp 0.221
 Phase -176.8
 PFD 4.8e-01
 Delays (us)
 SBD -0.445421
 MBD 0.004366
 Fringe rate (Hz) -0.825401
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143705
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

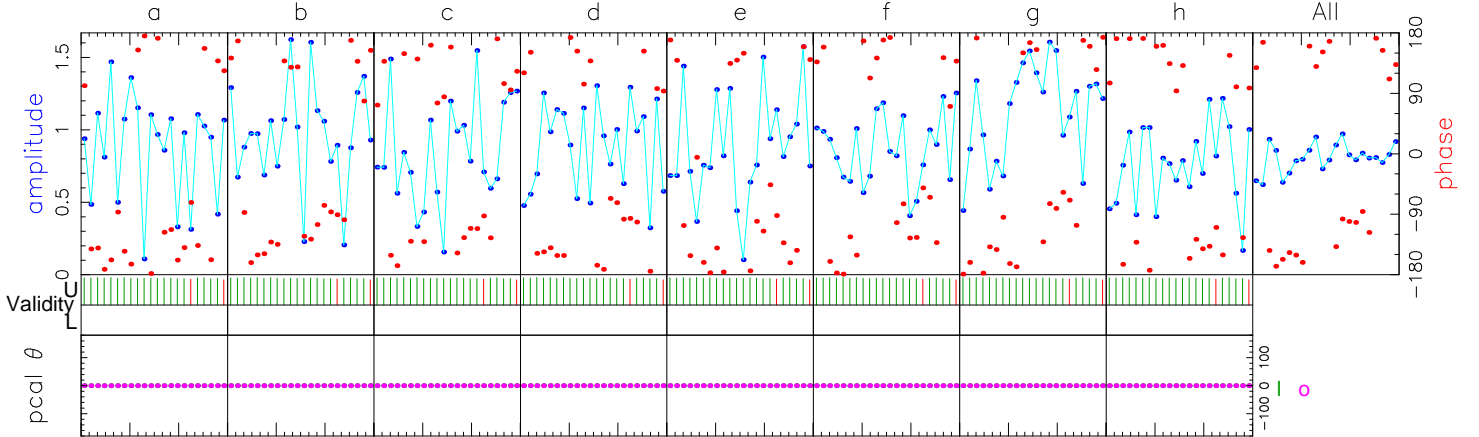


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-3.23200053790E+03									
Sband delay (usec)	-3.23199720005E+03									
Phase delay (usec)	-3.23155178476E+03									
Delay rate (us/s)	2.15360697550E-01									
Total phase (deg)			-266.0							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
PC period (AP's) 5, 5										
SampCntNorm: enabled										
nlags: 256 t_cohere infinite										
simultaneous interpolator										

ph/seg (deg) 41.5 46.0
 amp/seg (%) 51.8 80.3
 ph/frq (deg) 21.0 27.8
 amp/frq (%) 42.8 48.4
 l: az 72.7 el 39.2 pa -68.9
 n: az 85.8 el 51.6 pa -63.4
 u,v (fr/asec) -1476.432 33.209
 Control file: cf_1234_gmva
 Input file: /Exps/c201b/v1/1234/No0058/ln..18UHRL
 Output file: /Exps/c201b/v1/1234/No0058/In.W.162.18UHRL



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



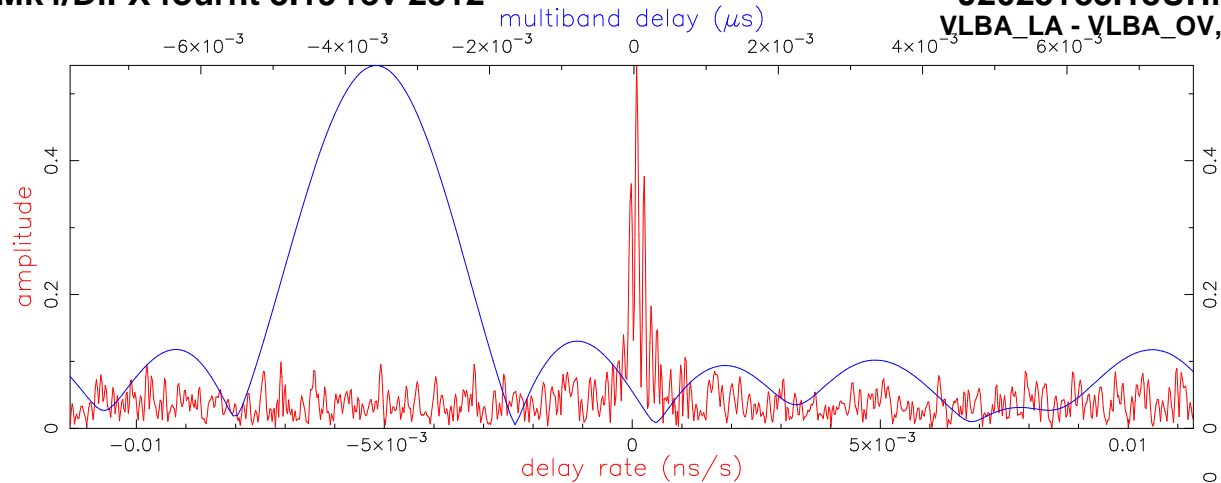
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	2.61055753637E+03	Apriori delay (usec)	2.61055583208E+03	Resid mbdelay (usec)	1.70429E-03	+/-	5.4E-05
Sband delay (usec)	2.61055652583E+03	Apriori clock (usec)	-2.3796452E+01	Resid sbdelay (usec)	6.93750E-04	+/-	4.3E-04
Phase delay (usec)	2.61055582668E+03	Apriori clockrate (us/s)	-3.5200000E-07	Resid phdelay (usec)	-5.40207E-06	+/-	1.8E-07
Delay rate (us/s)	-6.14257165887E-02	Apriori rate (us/s)	-6.14258085240E-02	Resid rate (us/s)	9.19353E-08	+/-	1.8E-09
Total phase (deg)		Apriori accel (us/s/s)	-1.52849568992E-05	Resid phase (deg)	-167.5	+/-	5.7

ph/seg (deg)	47.1	13.3	Search (1024X32)	0.541	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	48.3	23.3	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)	11.5	8.0	Inc. seg. avg.	0.787	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	14.9	14.0	Inc. frq. avg.	0.558	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

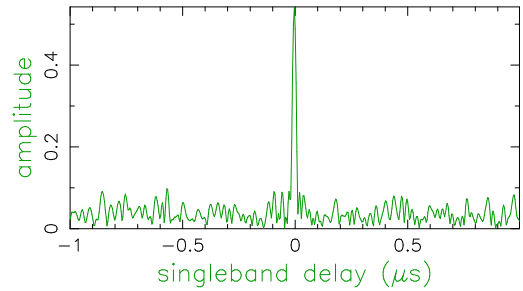
l: az 72.7 el 39.2 pa -68.9 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 412.006 -955.198 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/lo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/lo.W.104.18UHRL

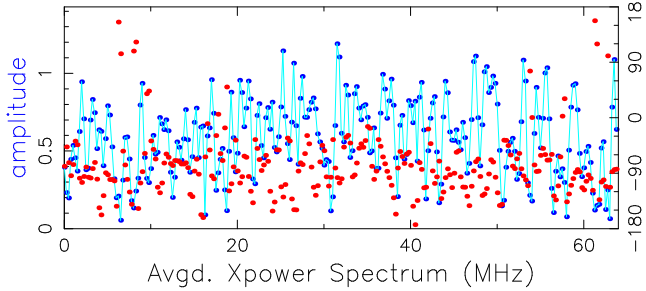


Fringe quality 9

SNR 19.7
Int time 175.546
Amp 0.542
Phase -92.6
PFD 0.0e+00
Delays (us)
SBD -0.004111
MBD -0.003579
Fringe rate (Hz) 0.007627
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

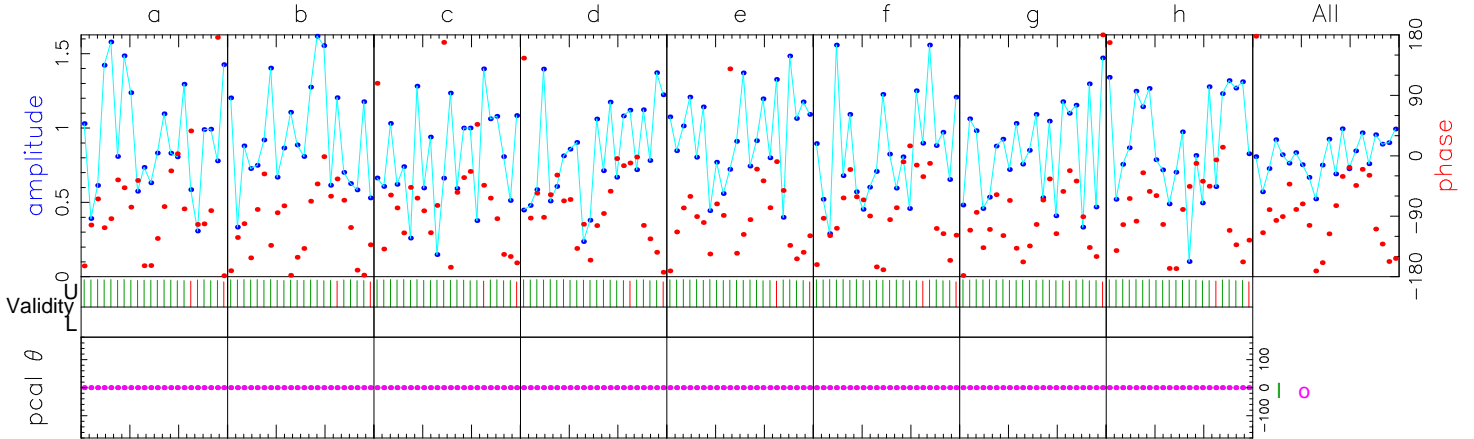


delay rate (ns/s)



Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143657
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

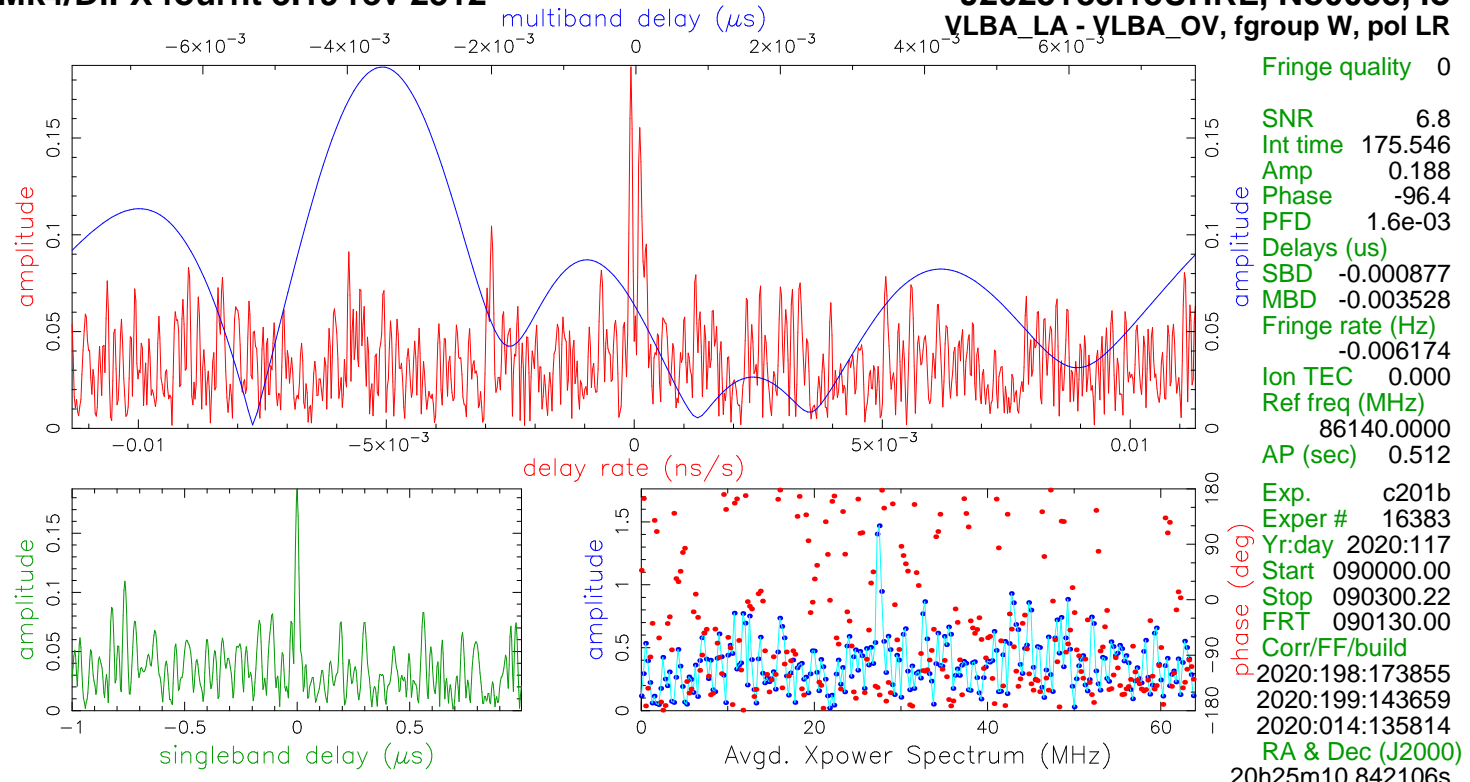


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-91.7	-99.3	-89.7	-82.9	-101.1	-82.8	-101.0	-88.2	Phase	-92.6
	0.6	0.5	0.5	0.5	0.6	0.5	0.6	0.5	Ampl.	0.5
	255.2	255.8	255.6	256.2	256.2	256.2	256.2	255.9	Sbd box	255.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	

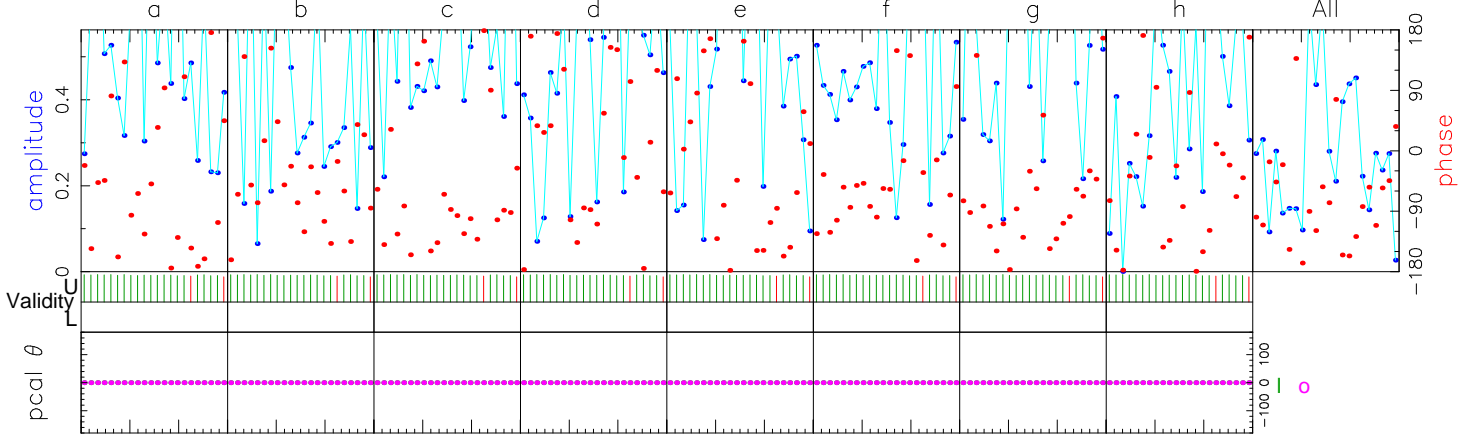
Group delay (usec)(sbd) 2.61055225312E+03 Apriori delay (usec) 2.61055583208E+03 Resid mbdelay (usec) -3.57896E-03 +/- 5.5E-05
 Sband delay (usec) 2.61055172108E+03 Apriori clock (usec) -2.3796452E+01 Resid sbdelay (usec) -4.11100E-03 +/- 4.4E-04
 Phase delay (usec) 2.61055582910E+03 Apriori clockrate (us/s) -3.5200000E-07 Resid phdelay (usec) -2.98511E-06 +/- 1.9E-07
 Delay rate (us/s) -6.14257199855E-02 Apriori rate (us/s) -6.14258085240E-02 Resid rate (us/s) 8.85385E-08 +/- 1.8E-09
 Total phase (deg) 42.6 Apriori accel (us/s/s) -1.52849568992E-05 Resid phase (deg) -92.6 +/- 5.8

RMS Theor. Amplitude 0.542 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 49.4 13.7 Search (1024X32) 0.535 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 54.3 23.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 8.2 8.2 Inc. seg. avg. 0.786 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 9.9 14.4 Inc. frq. avg. 0.541 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

l: az 72.7 el 39.2 pa -68.9 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 412.006 -955.198 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/lo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/lo.W.115.18UHRL

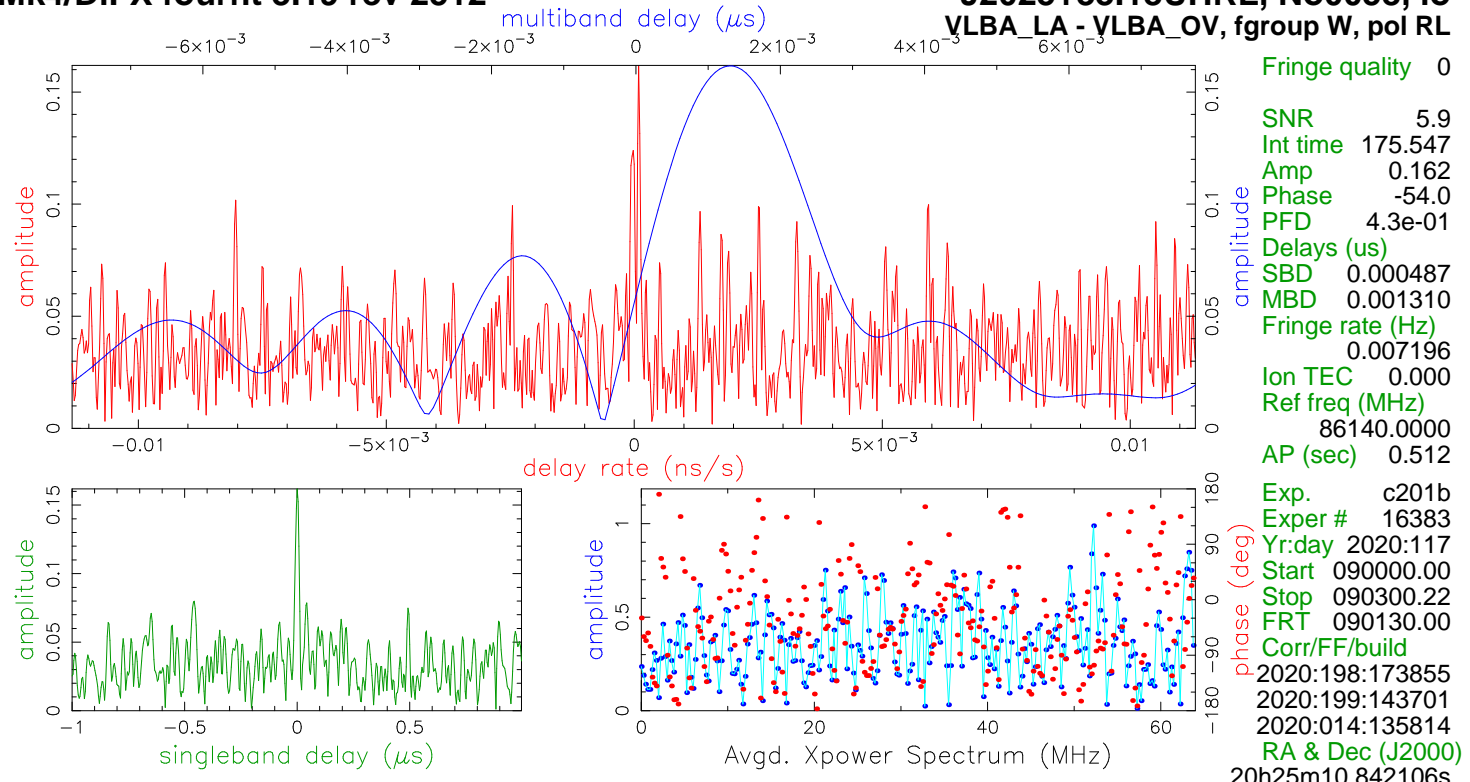


Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

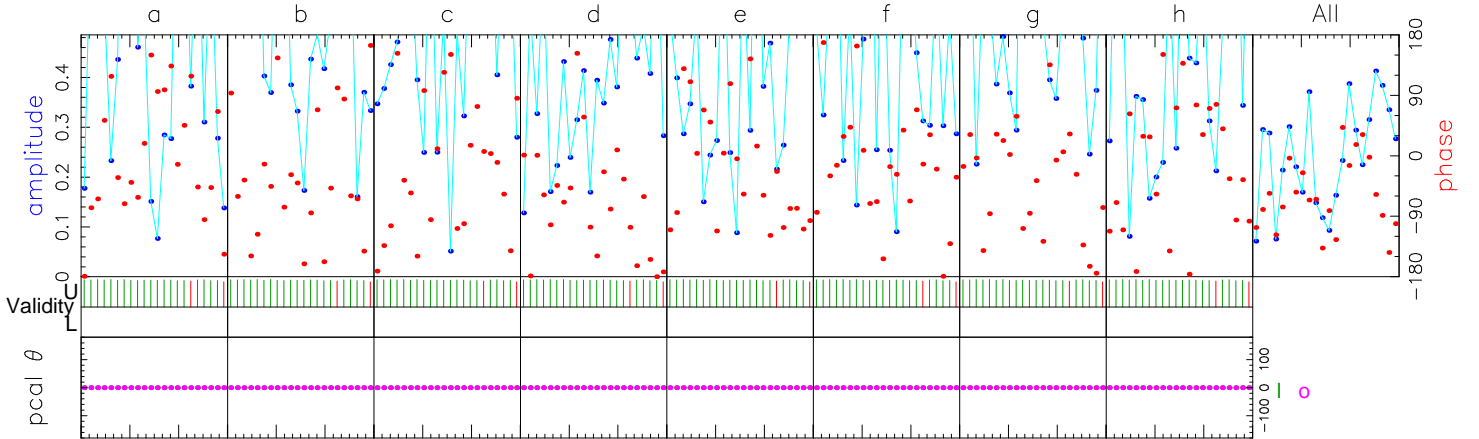


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-107.3	-49.2	-107.2	160.1	-113.8	-72.5	-101.0	-79.8	Phase	-96.4
	0.2	0.2	0.3	0.1	0.1	0.2	0.4	0.1	Ampl.	0.2
	133.5	285.7	256.0	462.4	7.9	118.3	257.0	166.2	Sbd box	256.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.61055230393E+03		Apriori delay (usec)		2.61055583208E+03		Resid mbdelay (usec)		-3.52815E-03	+/- 1.6E-04
Sband delay (usec)	2.61055495508E+03		Apriori clock (usec)		-2.3796452E+01		Resid sbdelay (usec)		-8.77000E-04	+/- 1.3E-03
Phase delay (usec)	2.61055582897E+03		Apriori clockrate (us/s)		-3.5200000E-07		Resid phdelay (usec)		-3.10736E-06	+/- 5.4E-07
Delay rate (us/s)	-6.14258802003E-02		Apriori rate (us/s)		-6.14258085240E-02		Resid rate (us/s)		-7.16763E-08	+/- 5.2E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.52849568992E-05		Resid phase (deg)		-96.4	+/- 16.9

	RMS	Theor.	Amplitude	0.188 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	68.4	39.6	Search (1024X32)	0.184	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	97.1	69.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	48.9	23.9	Inc. seg. avg.	0.225	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	52.8	41.6	Inc. frq. avg.	0.204	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



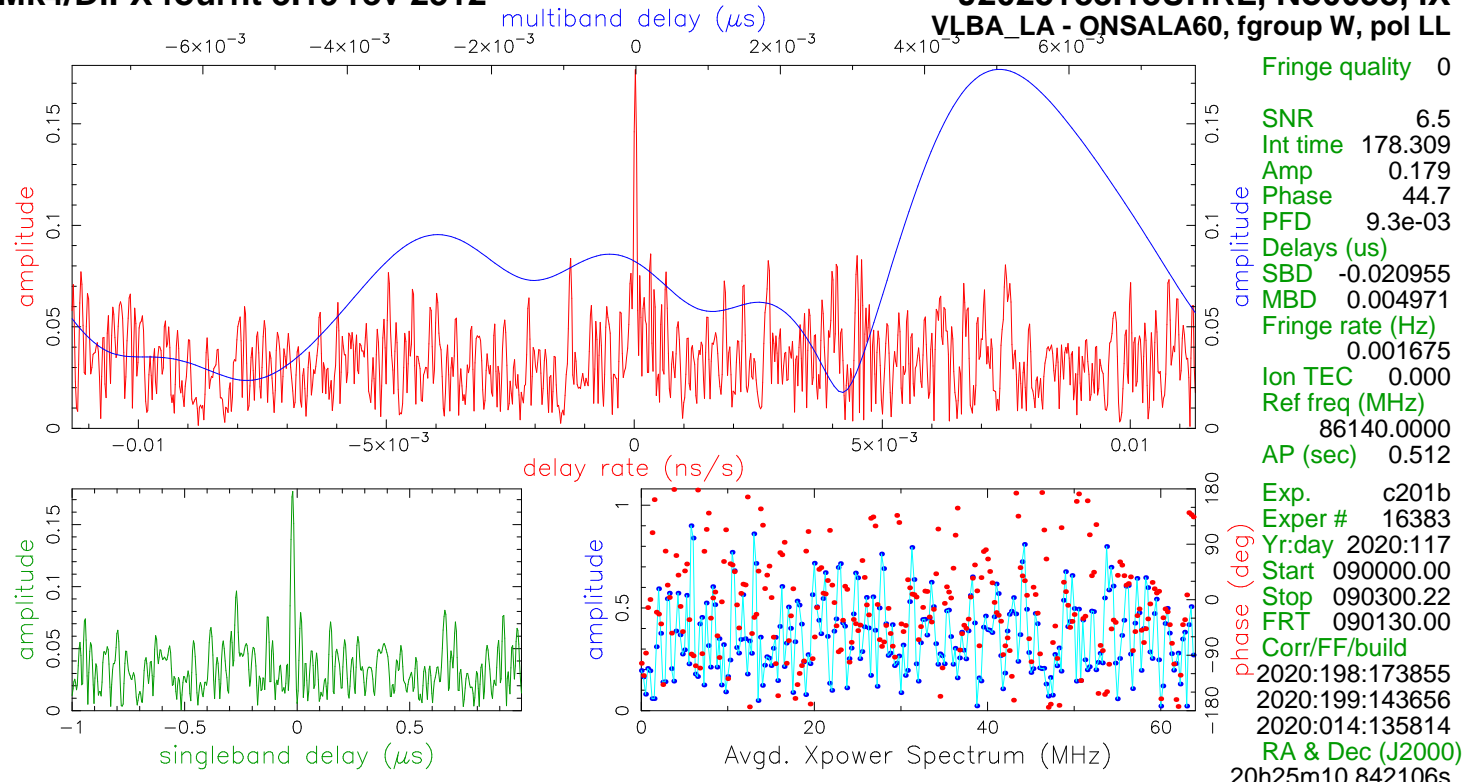
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-29.7	-85.5	-60.5	-92.7	-56.3	-33.7	-41.8	-81.5	Phase	-54.0
	0.3	0.1	0.1	0.2	0.2	0.2	0.2	0.1	Ampl.	0.2
	245.6	503.5	285.0	409.6	210.3	372.7	256.4	208.9	Sbd box	257.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	

Group delay (usec)(sbd)	2.61055714219E+03	Apriori delay (usec)	2.61055583208E+03	Resid mbdelay (usec)	1.31010E-03	+/-	1.9E-04
Sband delay (usec)	2.61055631858E+03	Apriori clock (usec)	-2.3796452E+01	Resid sbdelay (usec)	4.86500E-04	+/-	1.5E-03
Phase delay (usec)	2.61055583034E+03	Apriori clockrate (us/s)	-3.5200000E-07	Resid phdelay (usec)	-1.74119E-06	+/-	6.3E-07
Delay rate (us/s)	-6.14257249837E-02	Apriori rate (us/s)	-6.14258085240E-02	Resid rate (us/s)	8.35404E-08	+/-	6.1E-09
Total phase (deg)	81.2	Apriori accel (us/s/s)	-1.52849568992E-05	Resid phase (deg)	-54.0	+/-	19.5

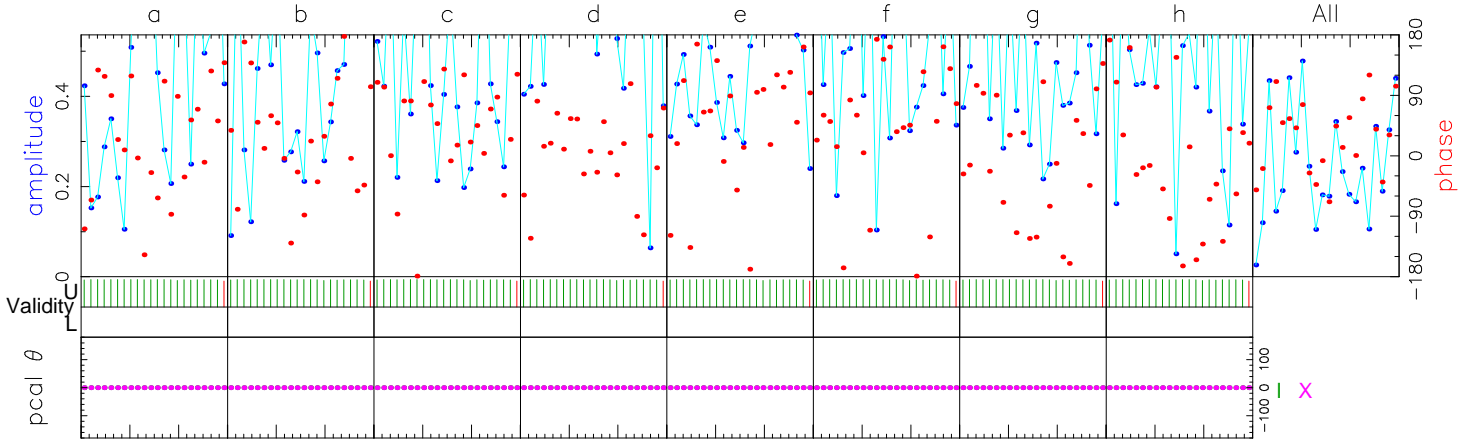
ph/seg (deg)	52.8	Theor.	45.8	Amplitude	0.162 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	81.4		80.0	Search (1024X32)	0.157	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	27.2		27.6	Inc. seg. avg.	0.186	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	35.8		48.2	Inc. frq. avg.	0.157	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

l: az 72.7 el 39.2 pa -68.9 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 412.006 -955.198 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/lo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/lo.W.137.18UHRL



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

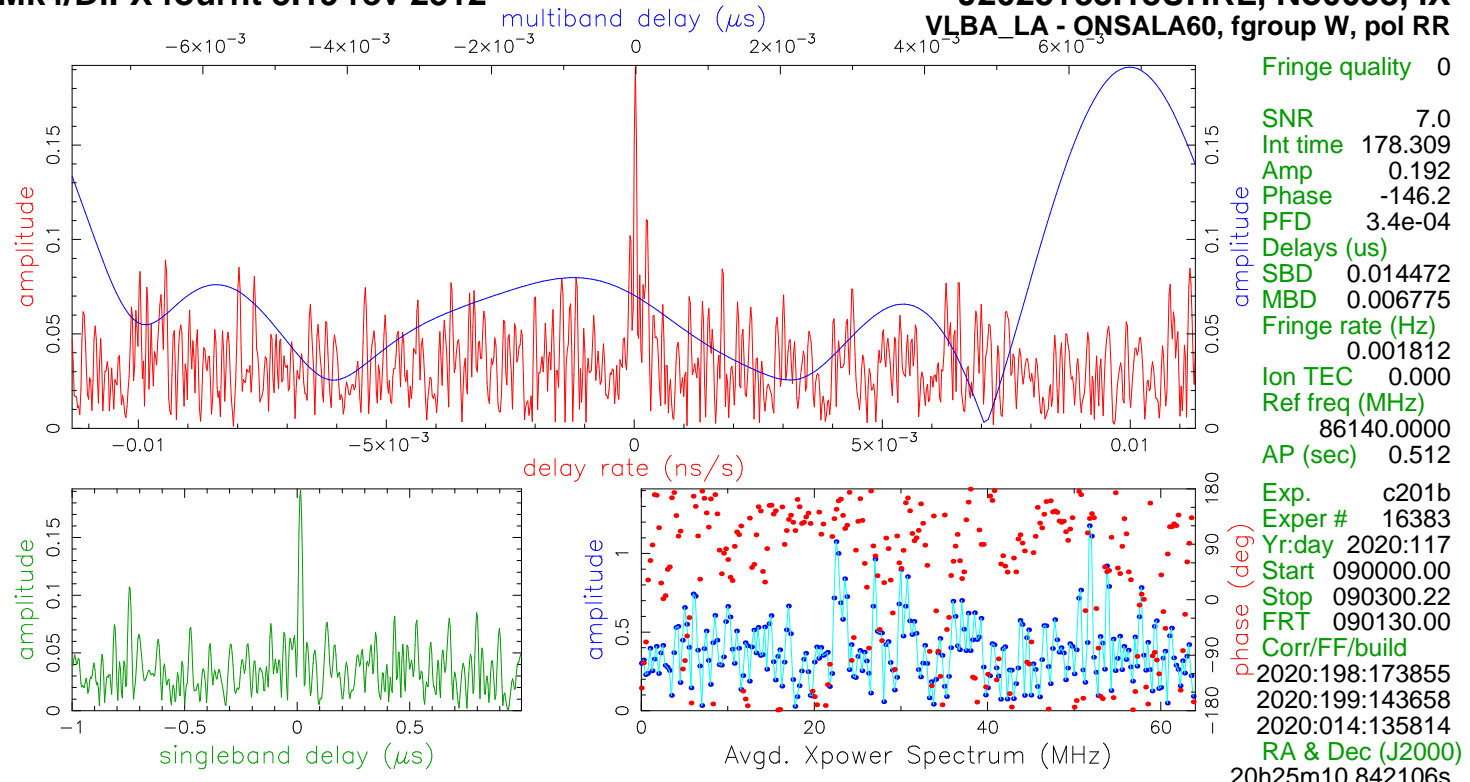


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	44.8	3.8	70.4	10.6	98.8	74.6	47.9	-57.0	Phase	44.7
	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.1	Ampl.	0.2
	260.1	196.1	251.0	251.8	251.1	9.2	139.0	250.1	Sbd box	251.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	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)	-1.85356249208E+03		Apriori delay (usec)		-1.85353621334E+03		Resid mbdelay (usec)		4.97127E-03	+/- 1.7E-04
Sband delay (usec)	-1.85355716884E+03		Apriori clock (usec)		-4.4472393E+01		Resid sbdelay (usec)		-2.09555E-02	+/- 1.3E-03
Phase delay (usec)	-1.85353621190E+03		Apriori clockrate (us/s)		-6.7900004E-07		Resid phdelay (usec)		1.44005E-06	+/- 5.7E-07
Delay rate (us/s)	1.50460275825E+00		Apriori rate (us/s)		1.50460273881E+00		Resid rate (us/s)		1.94442E-08	+/- 5.4E-09
Total phase (deg)			Apriori accel (us/s/s)		-6.56002116667E-06		Resid phase (deg)		44.7	+/- 17.6

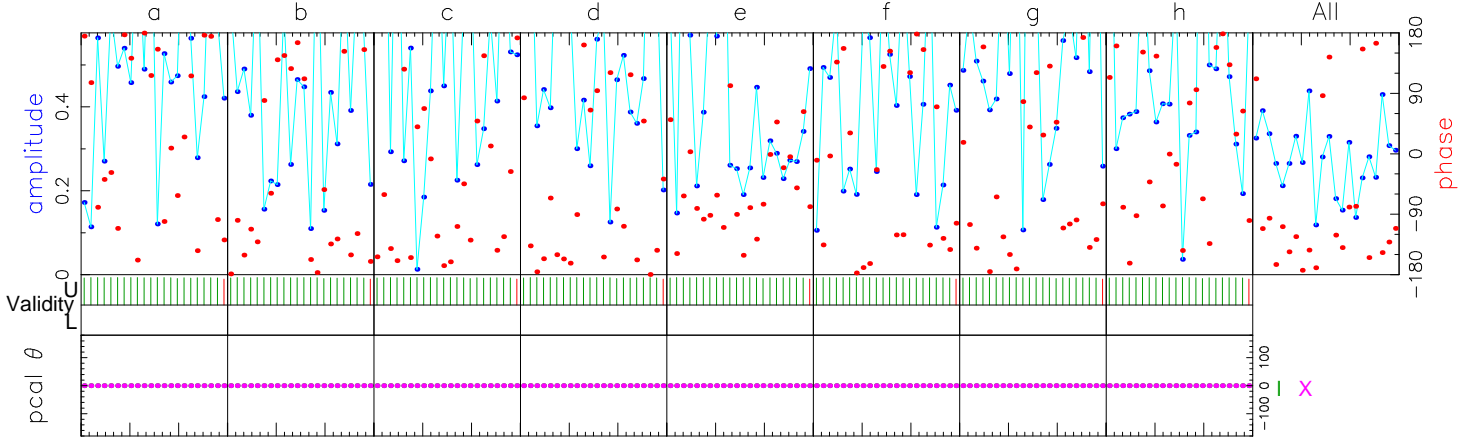
	RMS	Theor.	Amplitude	0.179 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	55.8	41.2	Search (1024X32)	0.175	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/seg (%)	77.7	71.8	Interp.	0.000	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	54.3	24.8	Inc. seg. avg.	0.195	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00
amp/frq (%)	58.6	43.3	Inc. frq. avg.	0.216					

I: az 72.7 el 39.2 pa -68.9 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -10374.101 -2186.903 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/IX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/IX.W.108.18UHRL



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

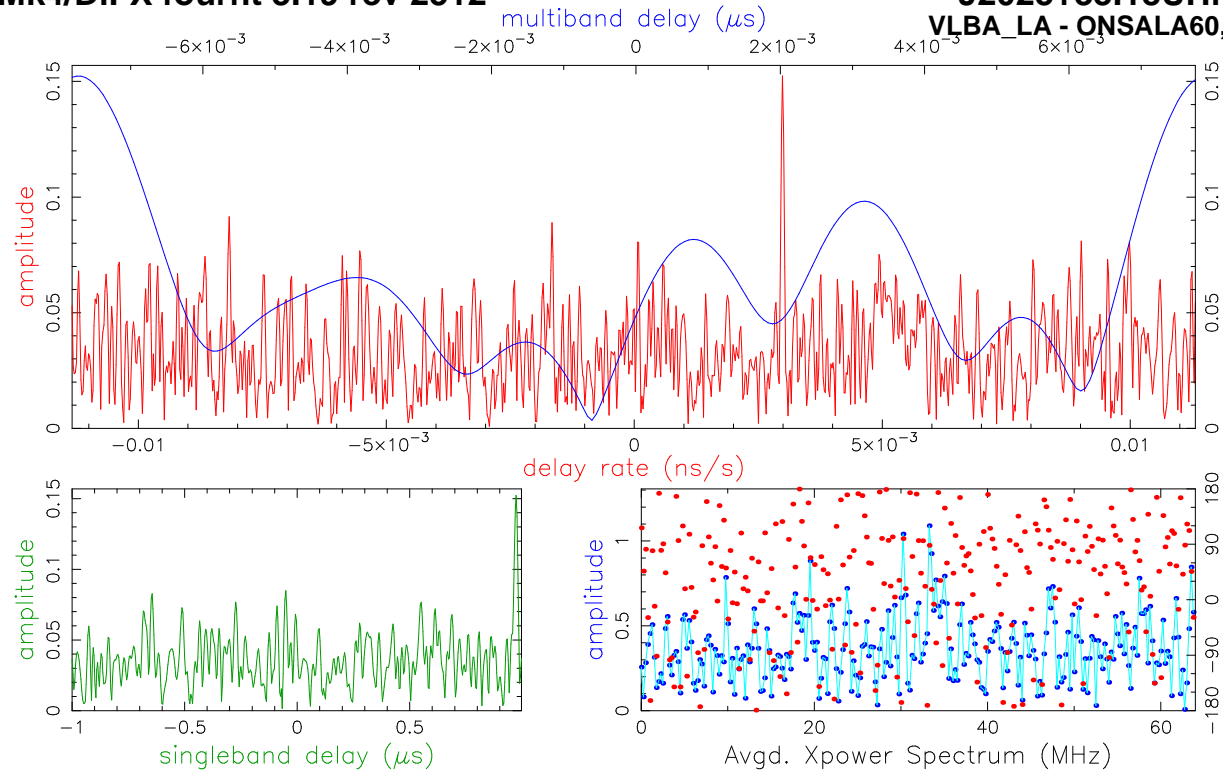


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-155.0	-167.1	-126.9	-165.1	-63.7	-168.1	-144.9	-159.7	Phase	-146.2
	0.1	0.3	0.3	0.3	0.2	0.2	0.2	0.1	Ampl.	0.2
	408.2	261.2	3.7	260.5	262.0	510.8	260.3	165.5	Sbd box	260.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	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)	-1.85352943804E+03		Apriori delay (usec)		-1.85353621334E+03		Resid mbdelay (usec)		6.77530E-03	+/- 1.5E-04
Sband delay (usec)	-1.85352174159E+03		Apriori clock (usec)		-4.4472393E+01		Resid sbdelay (usec)		1.44717E-02	+/- 1.2E-03
Phase delay (usec)	-1.85353621806E+03		Apriori clockrate (us/s)		-6.7900004E-07		Resid phdelay (usec)		-4.71538E-06	+/- 5.3E-07
Delay rate (us/s)	1.50460275985E+00		Apriori rate (us/s)		1.50460273881E+00		Resid rate (us/s)		2.10385E-08	+/- 5.1E-09
Total phase (deg)			Apriori accel (us/s/s)		-6.56002116667E-06		Resid phase (deg)		-146.2	+/- 16.3

	RMS	Theor.	Amplitude	0.192 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	50.4	38.3	Search (1024X32)	0.191	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	62.6	66.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	38.1	23.1	Inc. seg. avg.	0.228	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	40.2	40.3	Inc. frq. avg.	0.208	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

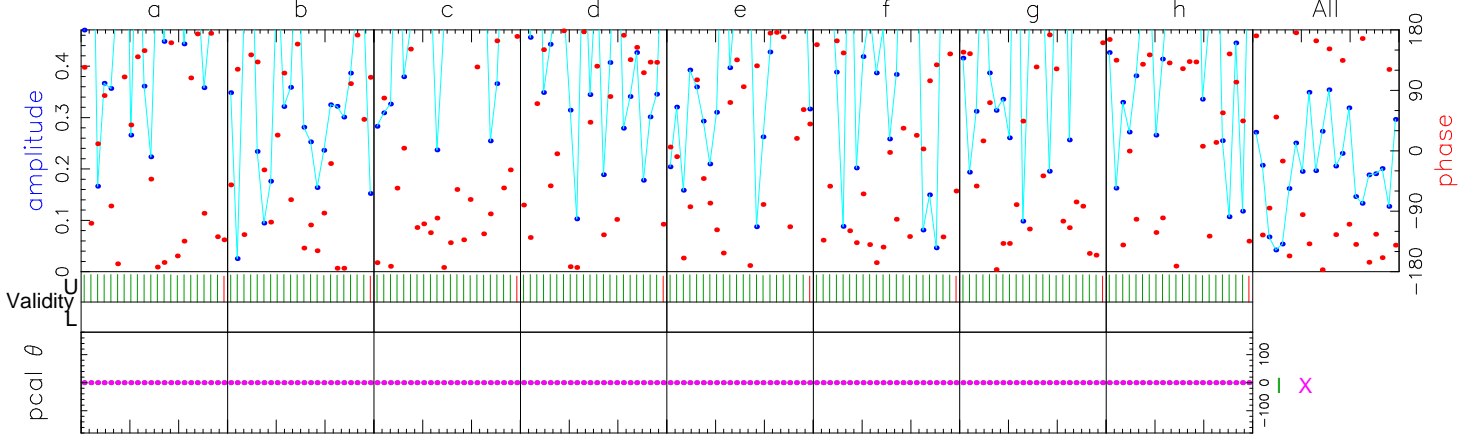
I: az 72.7 el 39.2 pa -68.9 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -10374.101 -2186.903 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/IX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/IX.W.118.18UHRL



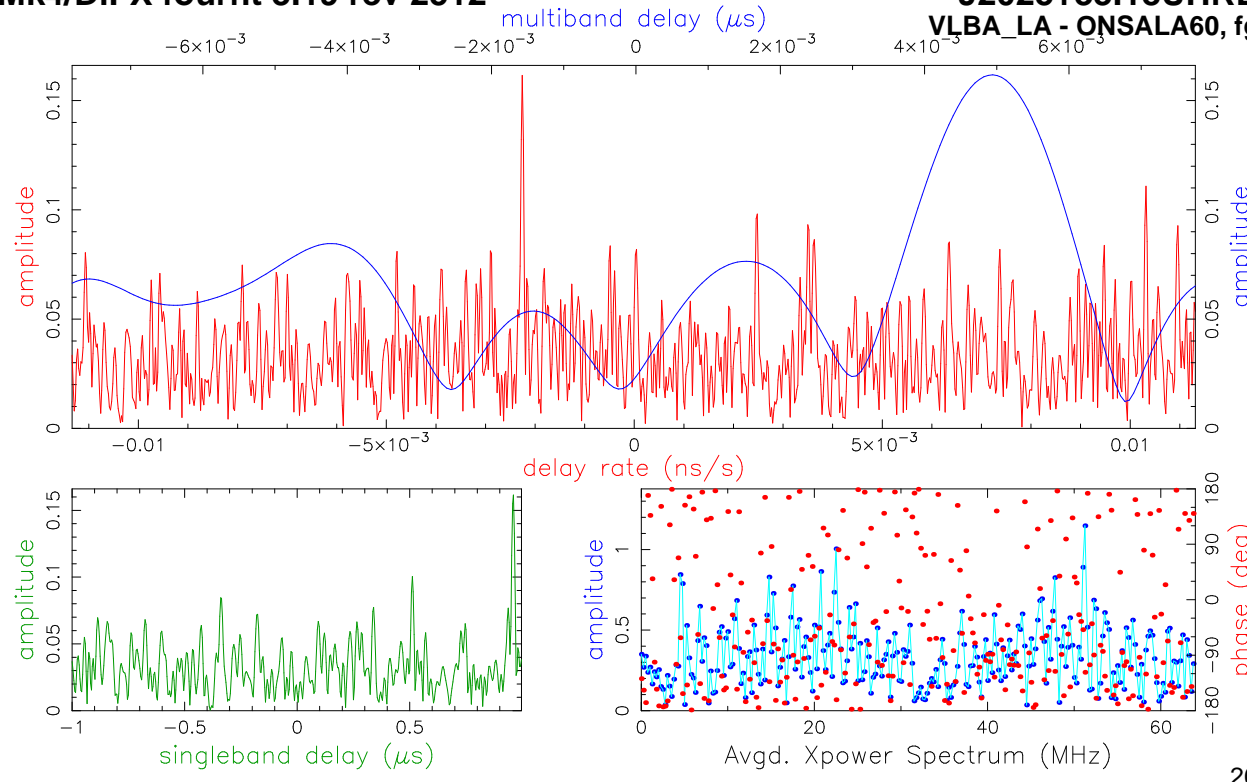
Fringe quality 0
 SNR 5.6
 Int time 178.309
 Amp 0.157
 Phase -159.8
 PFD 9.6e-01
 Delays (us)
 SBD 0.972286
 MBD -0.007737
 Fringe rate (Hz)
 0.258649
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143701
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



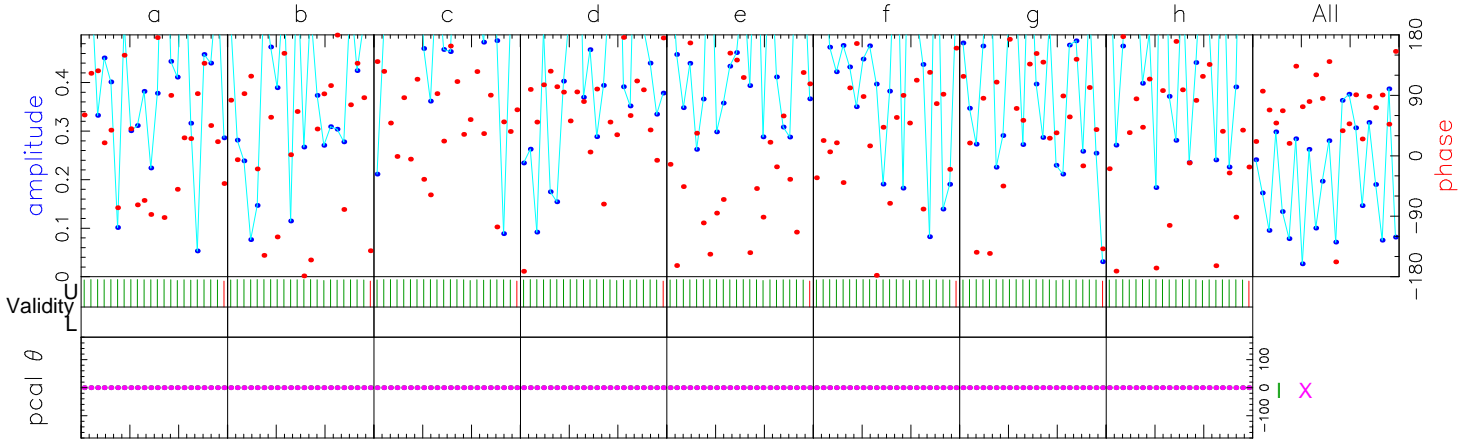
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.85255957544E+03									
Sband delay (usec)	-1.85256392759E+03									
Phase delay (usec)	-1.85353621850E+03									
Delay rate (us/s)	1.50460574146E+00									
Total phase (deg)			-310.1							
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										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcd window (us)										
pcd window (ns/s)										
pcd window (TEC)										

ph/seg (deg) 59.6 48.3
 amp/seg (%) 65.1 84.3
 ph/frq (deg) 38.7 29.1
 amp/frq (%) 52.8 50.8
 RMS Theor. Amplitude 0.157 +/- 0.028
 Search (1024X32) 0.146
 Interp. 0.000
 Inc. seg. avg. 0.154
 Inc. frq. avg. 0.168
 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s)
 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
 I: az 72.7 el 39.2 pa -68.9 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -10374.101 -2186.903 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/IX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/IX.W.136.18UHRL



Fringe quality 0
 SNR 6.0
 Int time 178.309
 Amp 0.166
 Phase 73.2
 PFD 2.7e-01
 Delays (us)
 SBD 0.959689
 MBD 0.004877
 Fringe rate (Hz)
 -0.194555
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143703
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

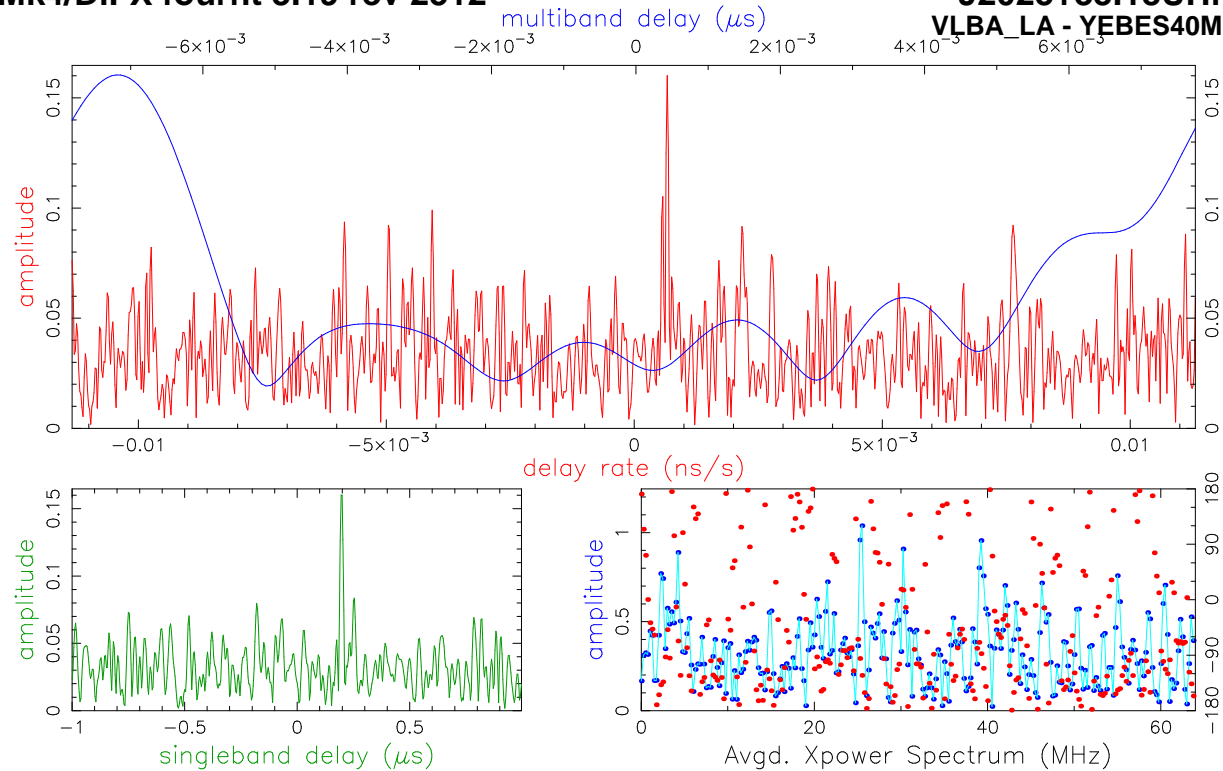
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.85257821141E+03									
Sband delay (usec)	-1.85257652409E+03									
Phase delay (usec)	-1.85353621098E+03									
Delay rate (us/s)	1.50460048022E+00									
Total phase (deg)			-77.1							
Apriori delay (usec)					-1.85353621334E+03				4.87694E-03	+/- 1.8E-04
Apriori clock (usec)					-4.4472393E+01				9.59689E-01	+/- 1.4E-03
Apriori clockrate (us/s)					-6.7900004E-07				2.36152E-06	+/- 6.2E-07
Apriori rate (us/s)					1.50460273881E+00				-2.25859E-06	+/- 6.0E-09
Apriori accel (us/s/s)					-6.56002116667E-06				73.2	+/- 19.2
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										
PC period (AP's) 5, 5										
SampCntNorm: enabled										
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
nlags: 256										
t_cohere infinite										

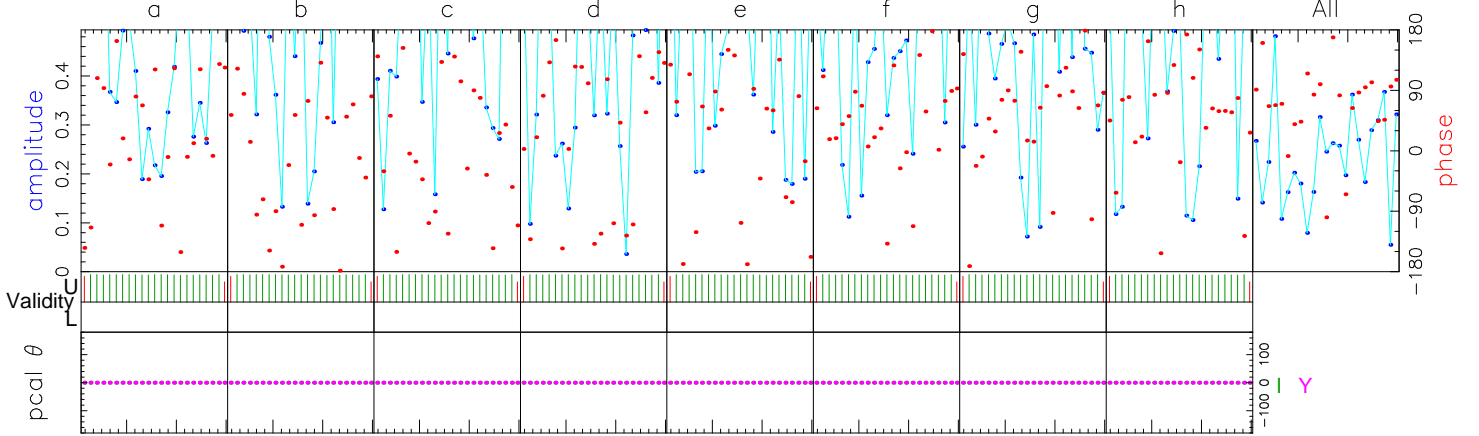
ph/seg (deg) 46.0 45.0
 amp/seg (%) 71.6 78.6
 ph/frq (deg) 79.3 27.2
 amp/frq (%) 52.7 47.4
 I: az 72.7 el 39.2 pa -68.9
 X: az 261.7 el 46.4 pa 39.8
 u,v (fr/asec) -10374.101 -2186.903
 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/IX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/IX.W.147.18UHRL



Fringe quality 0
 SNR 5.9
 Int time 172.689
 Amp 0.165
 Phase 76.0
 PFD 3.5e-01
 Delays (us)
 SBD 0.197258
 MBD -0.007101
 Fringe rate (Hz)
 0.057389
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090005.12
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143657
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec

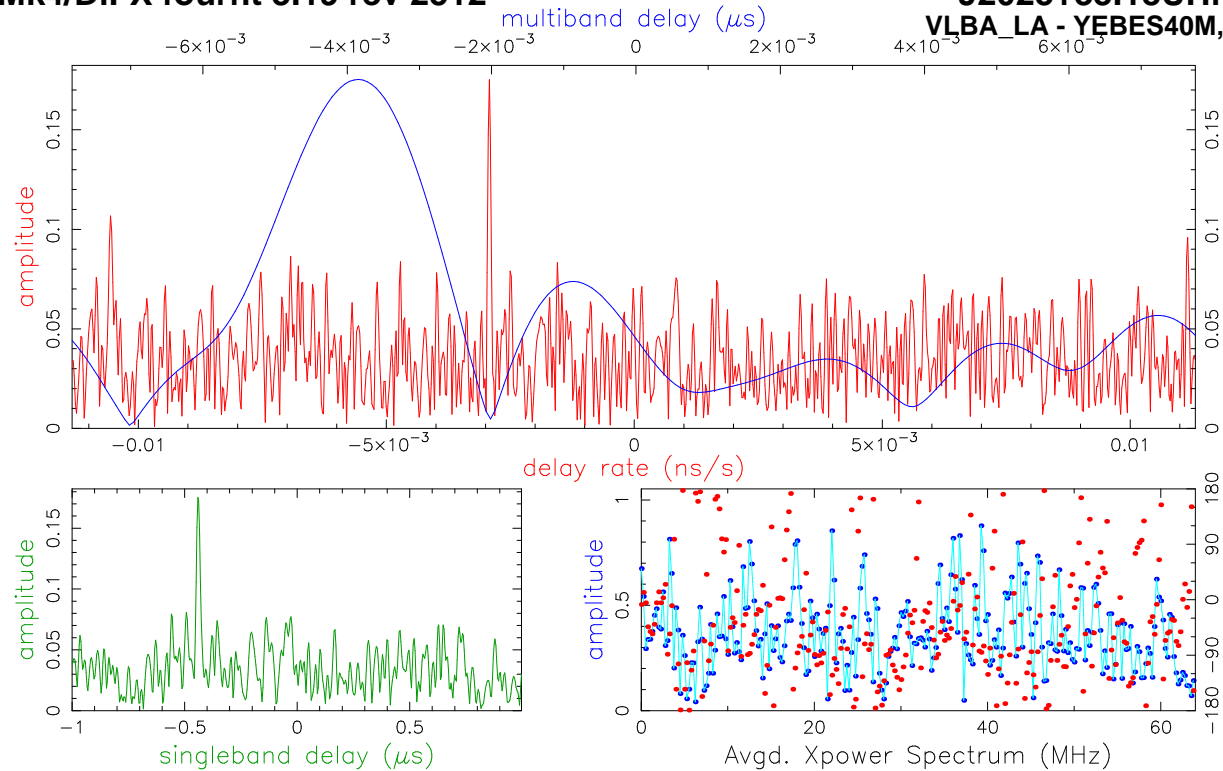


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-4.37692983964E+03	Apriori delay (usec)	-4.37712586405E+03	Resid mbdelay (usec)	-7.10060E-03	+/-	1.8E-04
Sband delay (usec)	-4.37692860655E+03	Apriori clock (usec)	-1.5679122E+01	Resid sbdelay (usec)	1.97258E-01	+/-	1.5E-03
Phase delay (usec)	-4.37712586159E+03	Apriori clockrate (us/s)	-3.7100000E-07	Resid phdelay (usec)	2.45205E-06	+/-	6.3E-07
Delay rate (us/s)	1.56882761882E+00	Apriori rate (us/s)	1.56882695259E+00	Resid rate (us/s)	6.66233E-07	+/-	6.2E-09
Total phase (deg)	-258.4	Apriori accel (us/s/s)	1.91098440334E-05	Resid phase (deg)	76.0	+/-	19.4

ph/seg (deg)	60.4	Theor.	46.5	Amplitude	0.165 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	73.5	Search (1024X32)	0.158	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	39.1	Inc. seg. avg.	0.177	Inc. frq. avg.	0.166	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	48.4	Inc. frq. avg.	0.166			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

I: az 72.7 el 39.2 pa -68.9 Y: az 271.1 el 57.5 pa 66.0 u,v (fr/asec) -10795.607 584.283 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/IY..18UHRL Output file: /Exps/c201b/v1/1234/No0058/IY.W.113.18UHRL

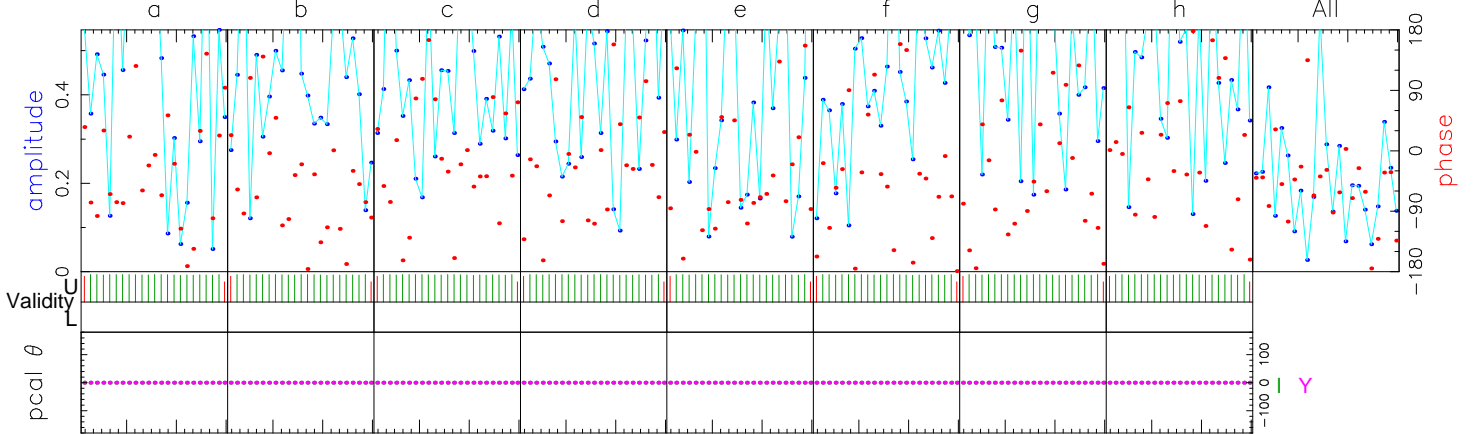


Fringe quality 0

SNR 6.4
 Int time 172.690
 Amp 0.182
 Phase -52.9
 PFD 2.5e-02
 Delays (us)
 SBD -0.439878
 MBD -0.003816
 Fringe rate (Hz)
 -0.251426
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090005.12
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143659
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

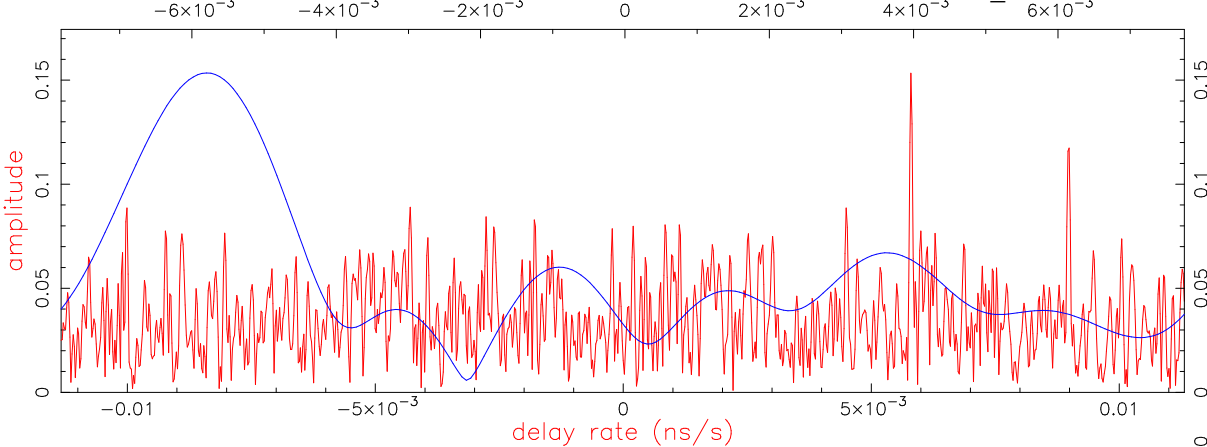
Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		-4.37756717967E+03			-4.37712586405E+03				-3.81562E-03	+/- 1.7E-04
Sband delay (usec)		-4.37756574180E+03			-1.5679122E+01				-4.39878E-01	+/- 1.4E-03
Phase delay (usec)		-4.37712586575E+03			-3.7100000E-07				-1.70452E-06	+/- 5.8E-07
Delay rate (us/s)		1.56882403378E+00			1.56882695259E+00				-2.91880E-06	+/- 5.7E-09
Total phase (deg)			-27.3		1.91098440334E-05				-52.9	+/- 18.0
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

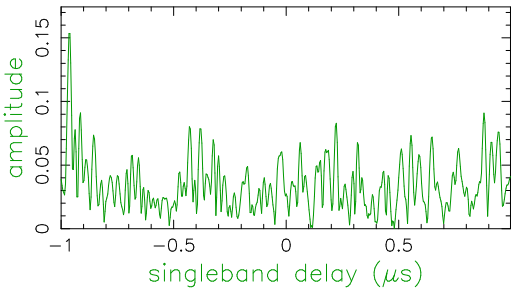
ph/seg (deg) 57.7 43.1 Search (1024X32) 0.171 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 72.2 75.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 29.6 25.4 Inc. seg. avg. 0.170 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 20.8 44.4 Inc. frq. avg. 0.181 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 I: az 72.7 el 39.2 pa -68.9 Y: az 271.1 el 57.5 pa 66.0 u,v (fr/asec) -10795.607 584.283 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/IY..18UHRL Output file: /Exps/c201b/v1/1234/No0058/IY.W.129.18UHRL

multiband delay (μs)

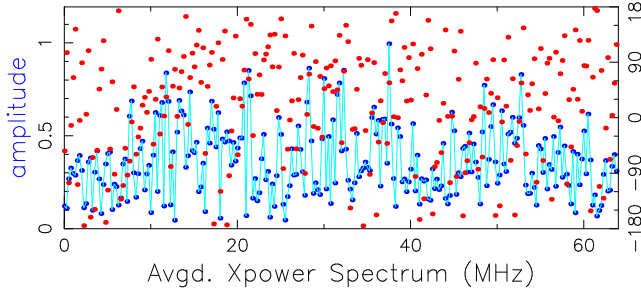


Fringe quality 0

SNR 5.6
 Int time 172.689
 Amp 0.174
 Phase -173.8
 PFD 9.1e-01
 Delays (us)
 SBD -0.962872
 MBD -0.005737
 Fringe rate (Hz)
 0.499813
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

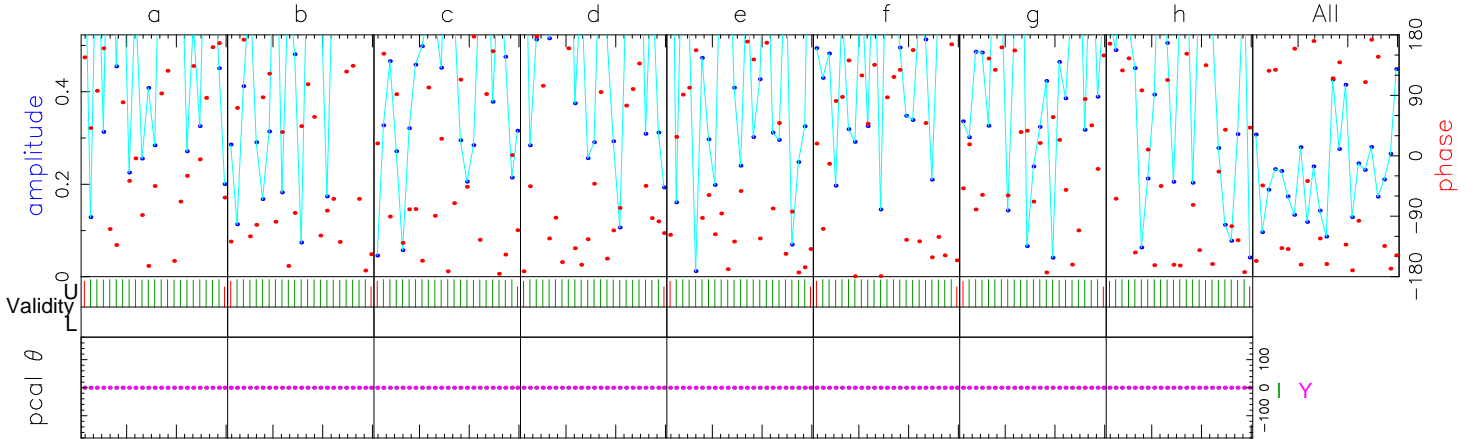


delay rate (ns/s)

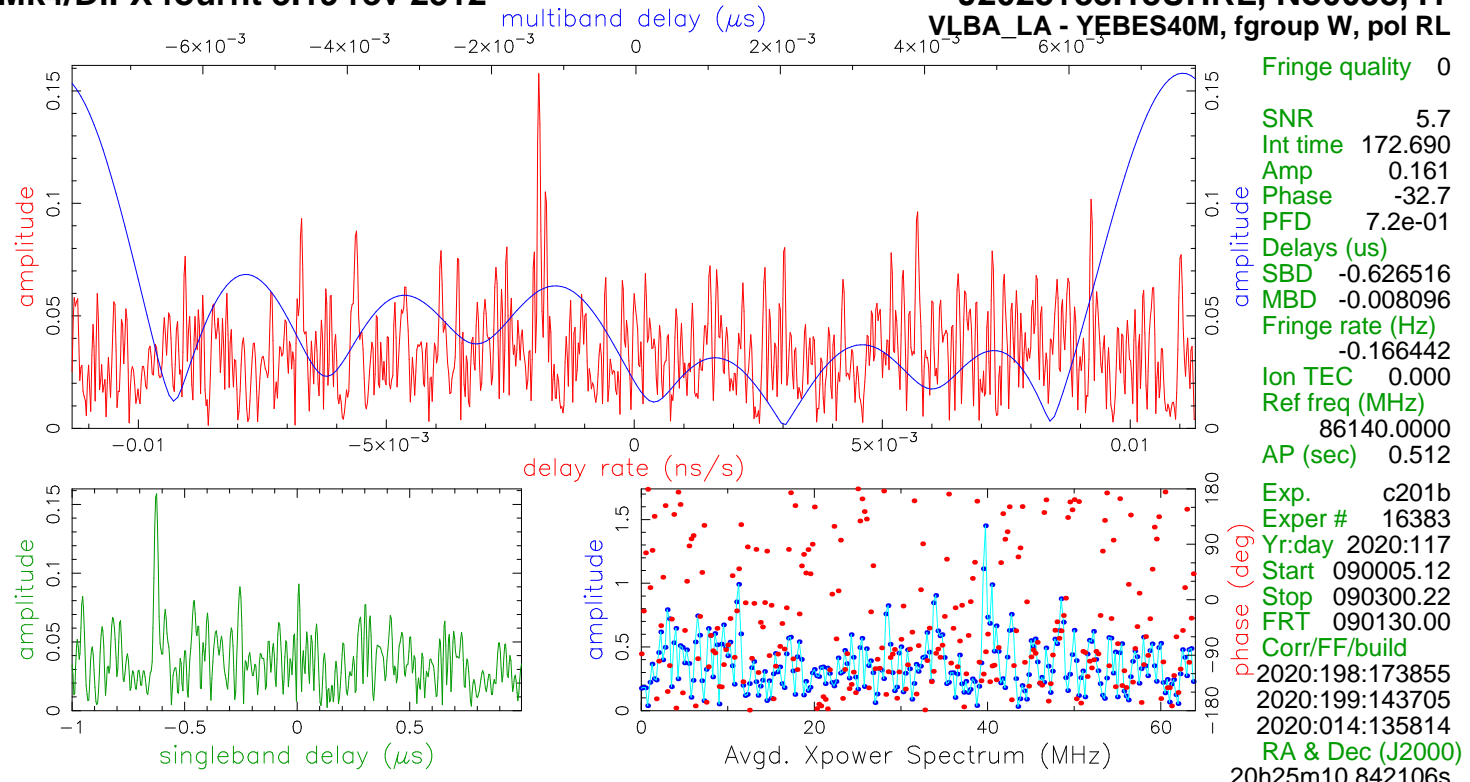


Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090005.12
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143702
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

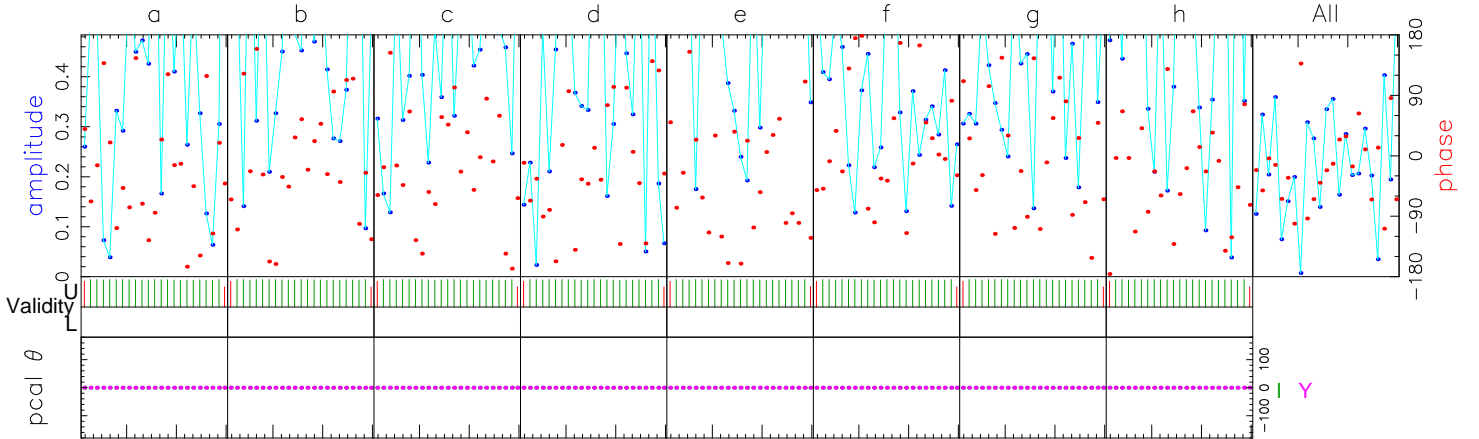
Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-4.37808472652E+03									
Sband delay (usec)	-4.37808873580E+03									
Phase delay (usec)	-4.37712586965E+03									
Delay rate (us/s)	1.56883275492E+00									
Total phase (deg)			-148.2							
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										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal theta										
Tracks										
Chan ids										
Tracks										
Chan ids										
Tracks										
Amplitude	0.174 +/- 0.031									
Search (1024X32)	0.151									
Interp.	0.000									
Inc. seg. avg.	0.187									
Inc. frq. avg.	0.173									
PC period (AP's) 5, 5										
SampCntNorm: enabled										
nlags: 256 t_cohere infinite										
simultaneous interpolator										



Amp. and Phase vs. time for each freq., 23 segs, 15 APs / seg (7.68 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-56.8	-24.8	-10.7	-19.8	-61.7	-9.0	-56.2	-28.6	Phase	-32.7
	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.3	Ampl.	0.2
	21.6	35.2	238.7	181.9	330.0	118.9	345.8	95.9	Sbd box	96.6
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.37775895955E+03		Apriori delay (usec)	-4.37712586405E+03	Resid mbdelay (usec)	-8.09550E-03	+/-	1.9E-04		
Sband delay (usec)	-4.37775237980E+03		Apriori clock (usec)	-1.5679122E+01	Resid sbdelay (usec)	-6.26516E-01	+/-	1.5E-03		
Phase delay (usec)	-4.37712586510E+03		Apriori clockrate (us/s)	-3.7100000E-07	Resid phdelay (usec)	-1.05507E-06	+/-	6.5E-07		
Delay rate (us/s)	1.56882502036E+00		Apriori rate (us/s)	1.56882695259E+00	Resid rate (us/s)	-1.93223E-06	+/-	6.4E-09		
Total phase (deg)		-7.1	Apriori accel (us/s/s)	1.91098440334E-05	Resid phase (deg)	-32.7	+/-	20.0		

ph/seg (deg) 60.7 48.0 Amplitude 0.161 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

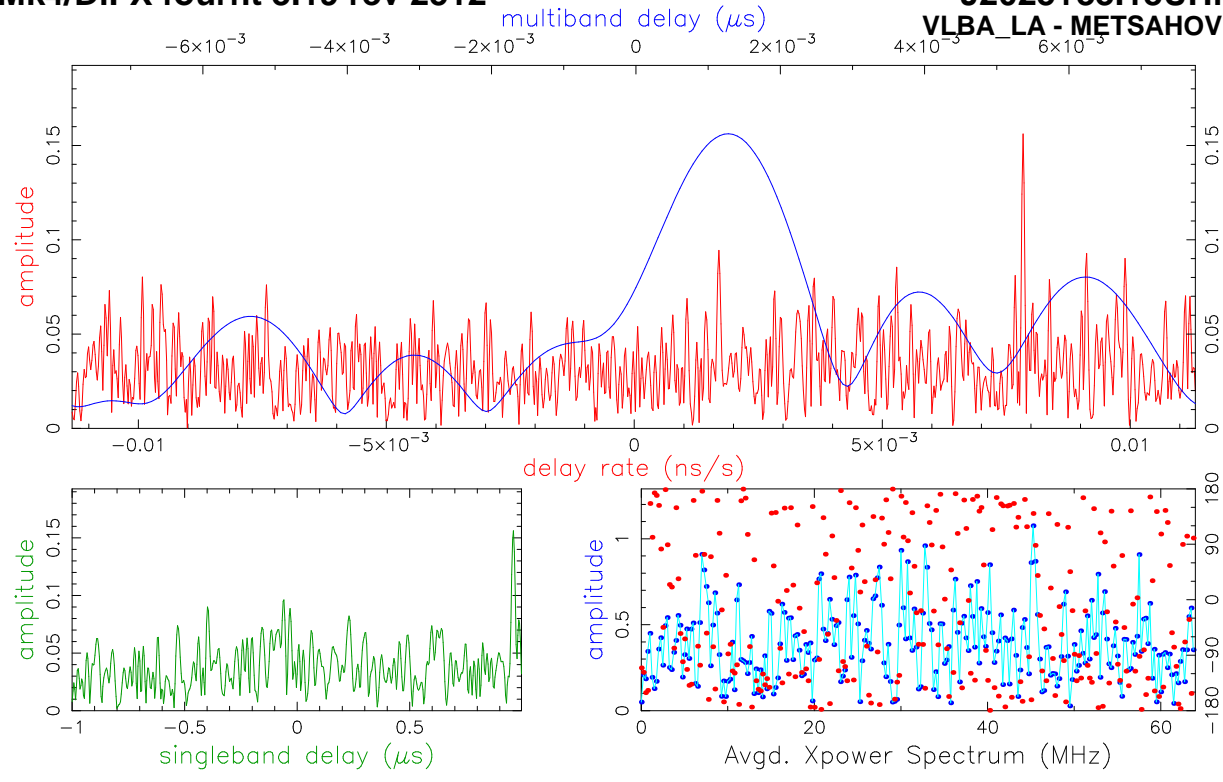
amp/seg (%) 87.1 83.7 Search (1024X32) 0.155 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 23.3 28.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 32.0 49.4 Inc. seg. avg. 0.174 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011

l: az 72.7 el 39.2 pa -68.9 Y: az 271.1 el 57.5 pa 66.0 u,v (fr/asec) -10795.607 584.283 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/IY..18UHRL Output file: /Exps/c201b/v1/1234/No0058/IY.W.160.18UHRL simultaneous interpolator

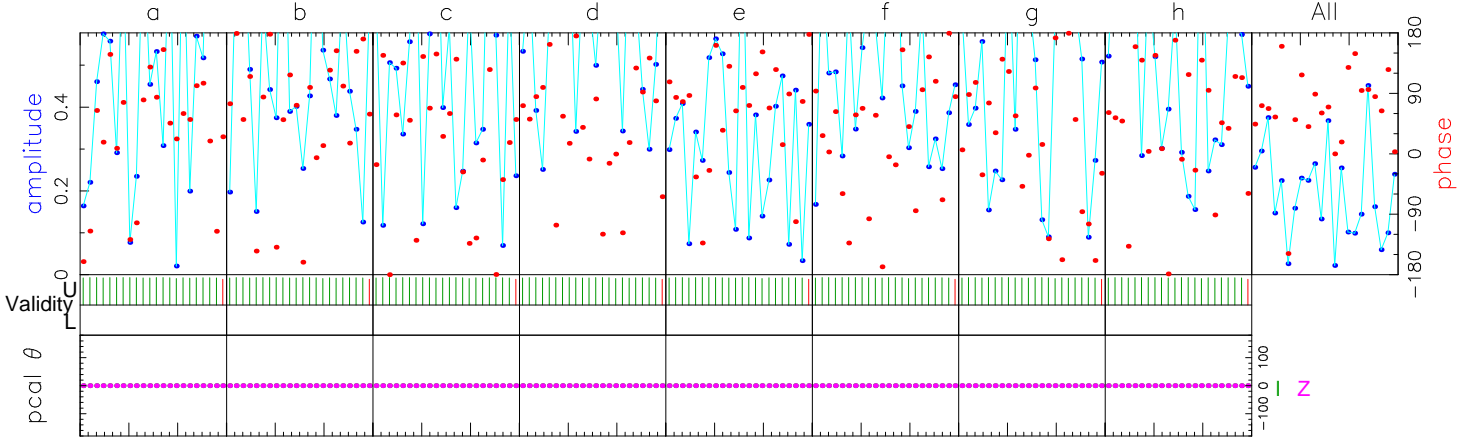


Fringe quality 0

SNR 5.7
 Int time 177.999
 Amp 0.192
 Phase 74.6
 PFD 7.4e-01
 Delays (us)
 SBD 0.960128
 MBD 0.001253
 Fringe rate (Hz)
 0.675970
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143658
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



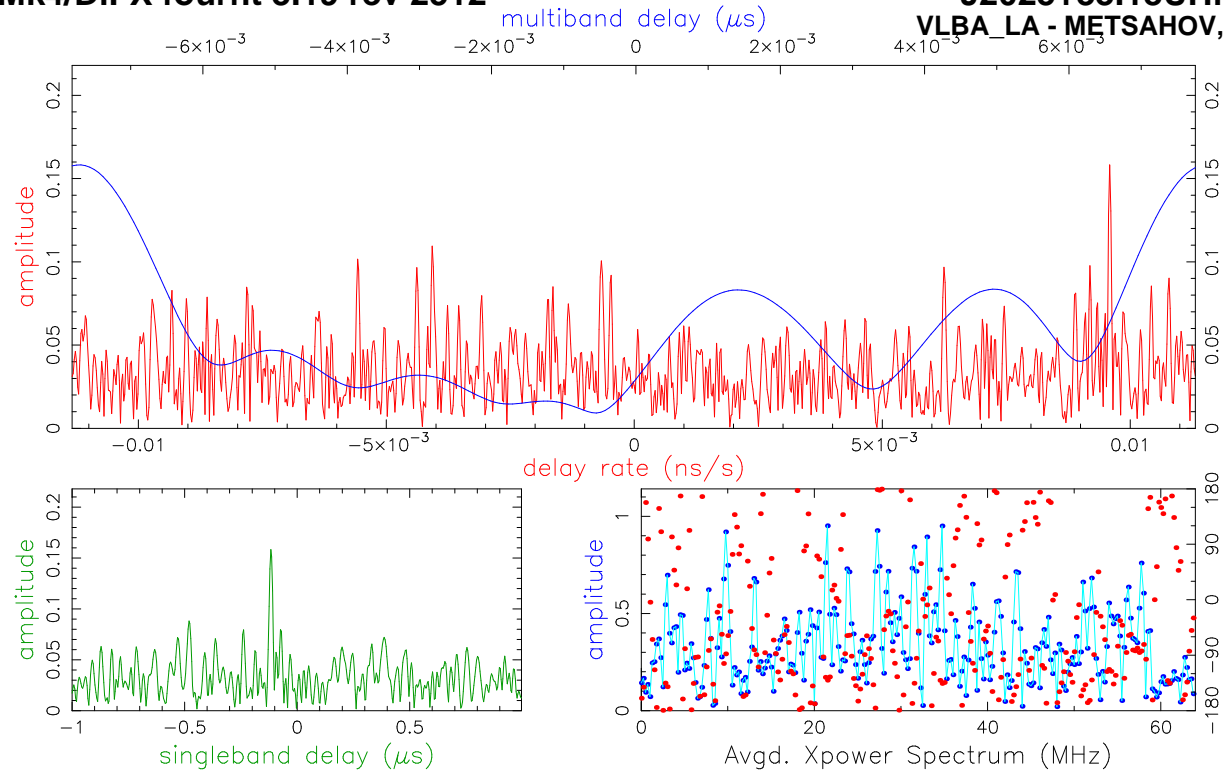
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-6.49261418823E+00	Apriori delay (usec)	-7.44699182677E+00	Resid mbdelay (usec)	1.25264E-03	+/-	1.9E-04
Sband delay (usec)	-6.48686407677E+00	Apriori clock (usec)	-3.5884619E+00	Resid sbdelay (usec)	9.60128E-01	+/-	1.5E-03
Phase delay (usec)	-7.44698942250E+00	Apriori clockrate (us/s)	-1.6700000E-07	Resid phdelay (usec)	2.40427E-06	+/-	6.5E-07
Delay rate (us/s)	1.52549737395E+00	Apriori rate (us/s)	1.52548952662E+00	Resid rate (us/s)	7.84734E-06	+/-	6.2E-09
Total phase (deg)	-240.8	Apriori accel (us/s/s)	-1.77647169387E-05	Resid phase (deg)	74.6	+/-	20.0

ph/seg (deg)	51.1	Theor.	47.0	Amplitude	0.192 +/- 0.034	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	75.4		82.0	Search (1024X32)	0.150	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	29.8		28.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	45.3		49.5	Inc. seg. avg.	0.182	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.187	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

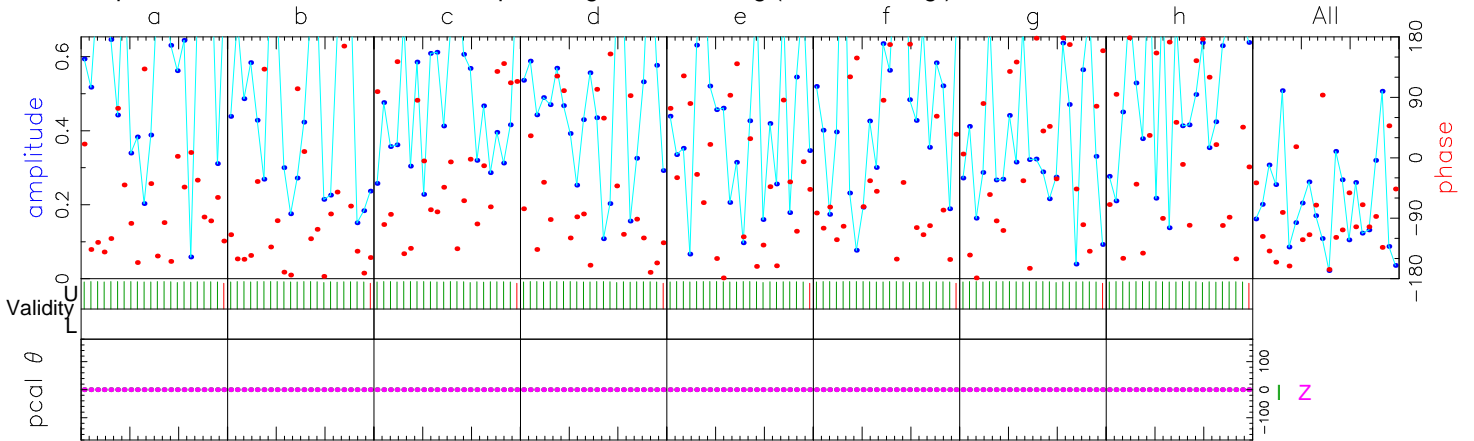
I: az 72.7 el 39.2 pa -68.9 Z: az 270.2 el 39.7 pa 36.7 u,v (fr/asec) -10526.335 -2963.194 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/IZ..18UHRL Output file: /Exps/c201b/v1/1234/No0058/IZ.W.119.18UHRL



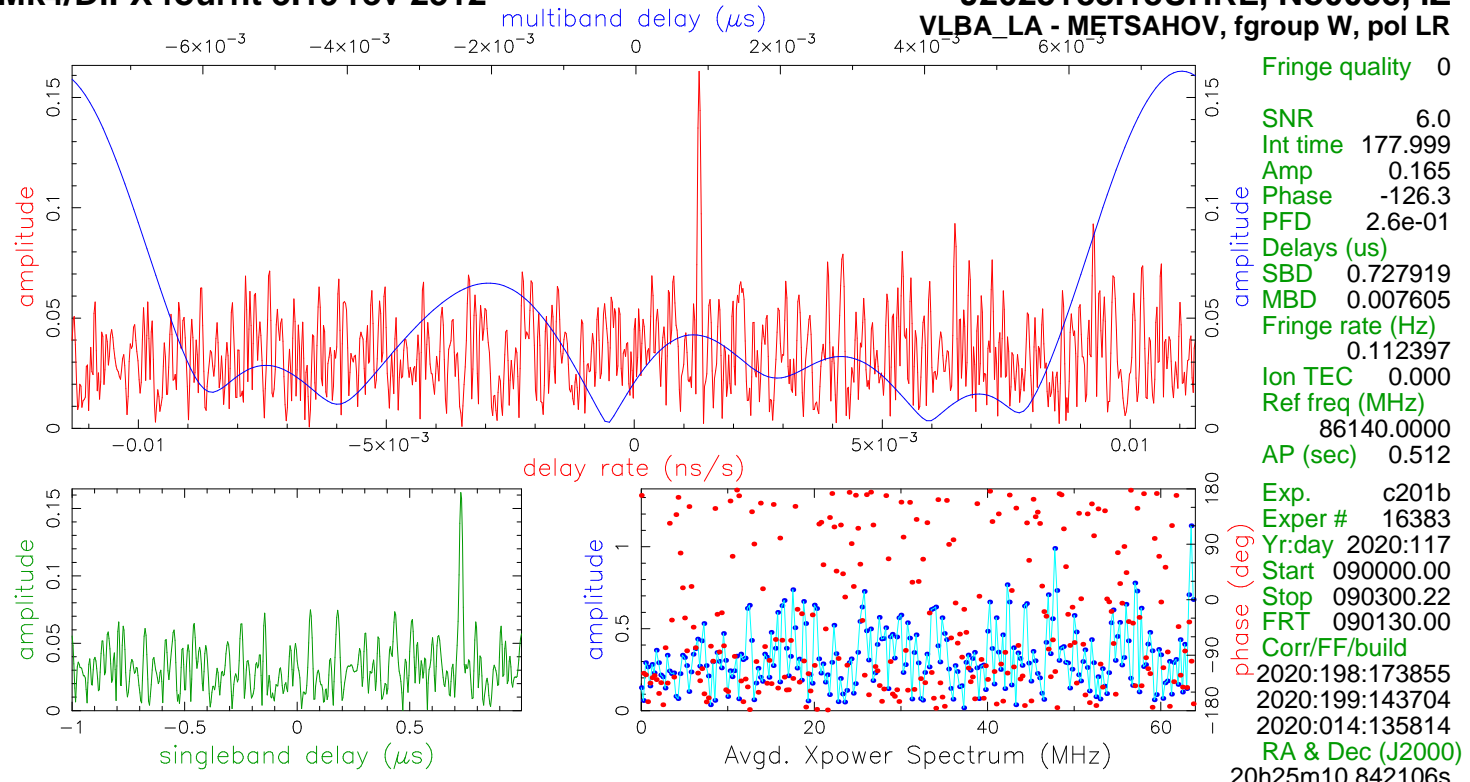
Fringe quality 0
SNR 5.8
Int time 178.000
Amp 0.218
Phase -105.9
PFD 5.6e-01
Delays (us)
SBD -0.116233
MBD 0.007936
Fringe rate (Hz) 0.827948
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143701
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

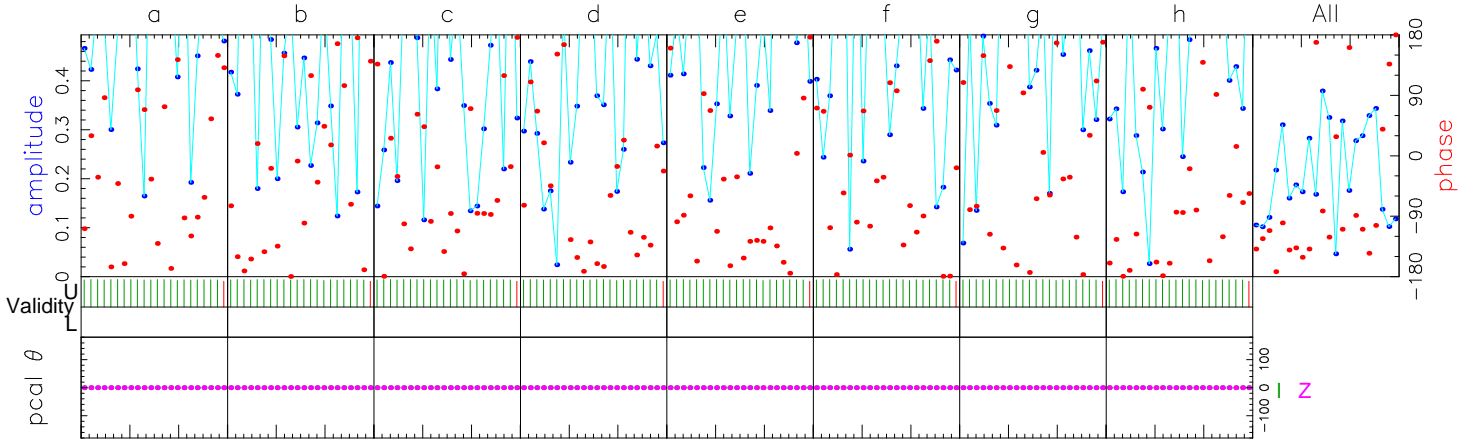


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
I	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-7.56405630999E+00								7.93552E-03	+/- 1.9E-04
Sband delay (usec)	-7.56322482677E+00								-1.16233E-01	+/- 1.5E-03
Phase delay (usec)	-7.44699524164E+00								-3.41487E-06	+/- 6.4E-07
Delay rate (us/s)	1.52549913827E+00								9.61165E-06	+/- 6.1E-09
Total phase (deg)			-61.2						-105.9	+/- 19.8
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										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 64.1 46.3 Search (1024X32) 0.154 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 87.4 80.8 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 33.5 27.9 Inc. seg. avg. 0.218 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 61.6 48.8 Inc. frq. avg. 0.208 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
I: az 72.7 el 39.2 pa -68.9 Z: az 270.2 el 39.7 pa 36.7 u,v (fr/asec) -10526.335 -2963.194 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/IZ..18UHRL Output file: /Exps/c201b/v1/1234/No0058/IZ.W.140.18UHRL



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



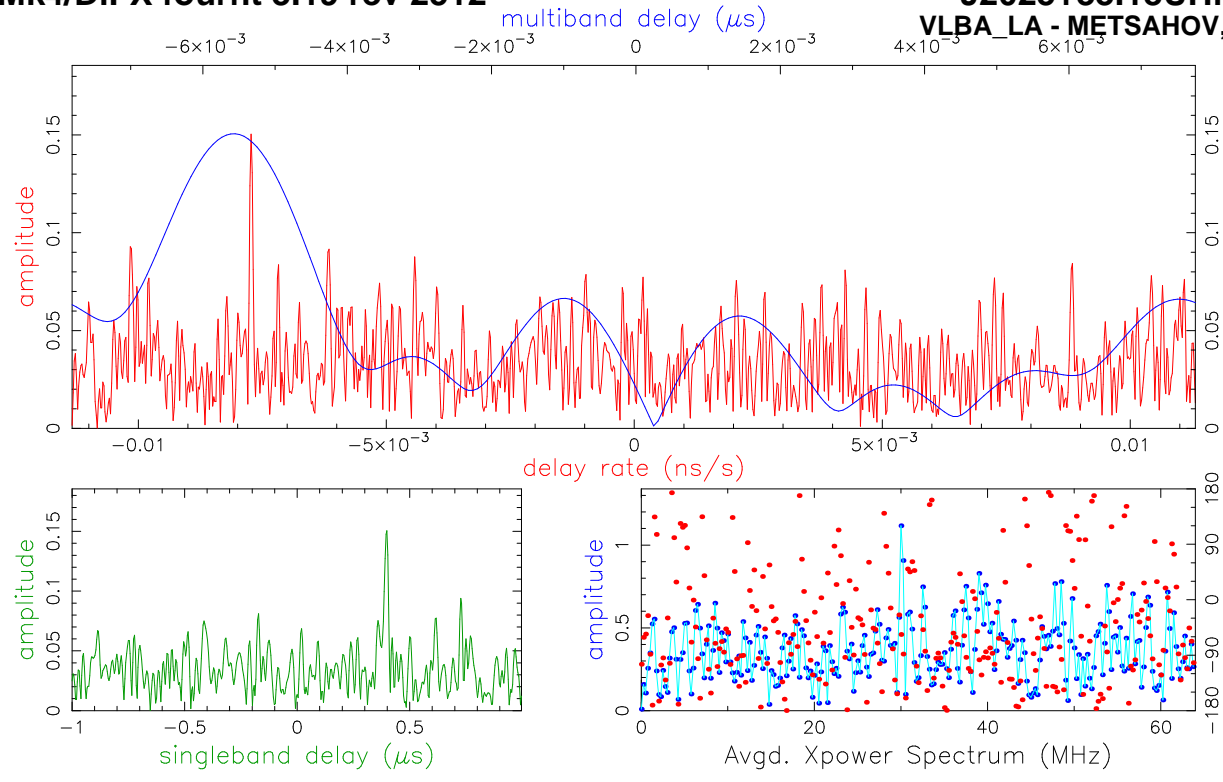
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-105.2	-162.6	-98.3	-127.1	-130.2	-100.9	-166.5	-124.8	Phase	-126.3
	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2	Ampl.	0.2
	280.9	361.2	53.8	246.3	333.0	432.8	370.3	456.0	Sbd box	443.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-6.72063714743E+00	Apriori delay (usec)	-7.44699182677E+00	Resid mbdelay (usec)	7.60468E-03	+/-	1.8E-04
Sband delay (usec)	-6.71907257677E+00	Apriori clock (usec)	-3.5884619E+00	Resid sbdelay (usec)	7.27919E-01	+/-	1.4E-03
Phase delay (usec)	-7.44699589956E+00	Apriori clockrate (us/s)	-1.6700000E-07	Resid phdelay (usec)	-4.07278E-06	+/-	6.2E-07
Delay rate (us/s)	1.52549083143E+00	Apriori rate (us/s)	1.52548952662E+00	Resid rate (us/s)	1.30482E-06	+/-	5.9E-09
Total phase (deg)		Apriori accel (us/s/s)	-1.77647169387E-05	Resid phase (deg)	-126.3	+/-	19.2

ph/seg (deg)	61.2	Theor.	45.0	Amplitude	0.165 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5			
amp/seg (%)	65.6		78.5	Search (1024X32)	0.160	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000			
ph/frq (deg)	28.4		27.1	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008		
amp/frq (%)	24.9		47.4	Inc. seg. avg.	0.163	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011			
				Inc. frq. avg.	0.159	Data rate (Mb/s):	2048	nlags:	256	t_cohere infinite	ion window (TEC)	0.00 0.00

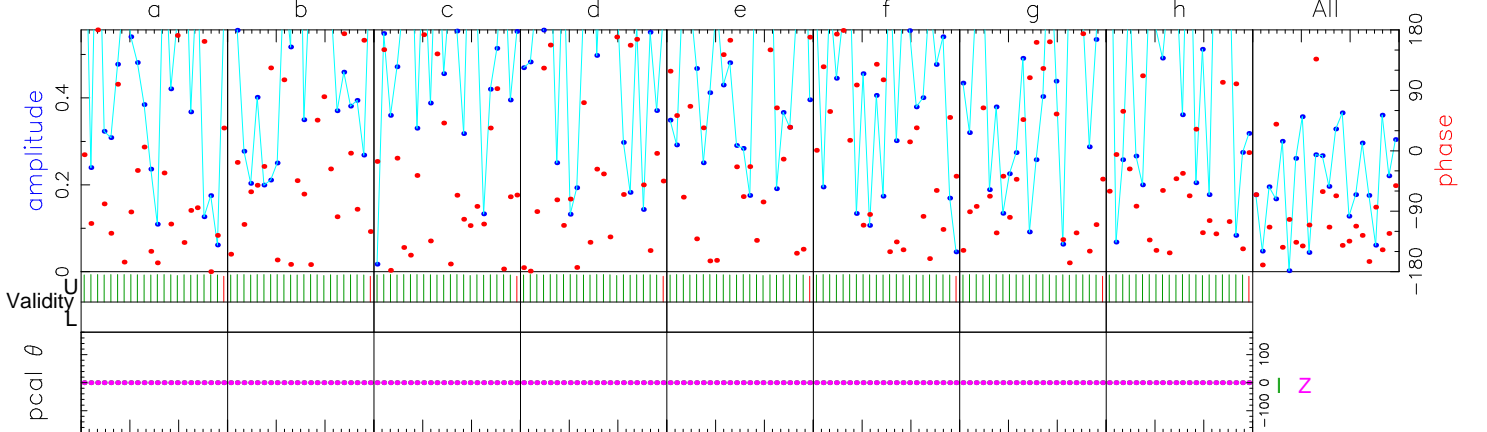
I: az 72.7 el 39.2 pa -68.9 Z: az 270.2 el 39.7 pa 36.7 u,v (fr/asec) -10526.335 -2963.194 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/IZ..18UHRL Output file: /Exps/c201b/v1/1234/No0058/IZ.W.153.18UHRL



Fringe quality 0
SNR 5.5
Int time 178.000
Amp 0.186
Phase -120.7
PFD 9.7e-01
Delays (us)
SBD 0.397025
MBD -0.005631
Fringe rate (Hz)
-0.667358
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143706
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-104.2	-85.6	-142.0	-132.4	-154.3	-139.3	-131.6	-86.5	Phase	-120.7
	0.2	0.1	0.3	0.3	0.2	0.1	0.2	0.3	Ampl.	0.2
	311.0	416.0	499.0	27.8	493.0	234.9	155.2	361.2	Sbd box	358.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	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)	-7.04637236047E+00		Apriori delay (usec)		-7.44699182677E+00		Resid mbdelay (usec)		-5.63053E-03	+/- 2.0E-04
Sband delay (usec)	-7.04996682677E+00		Apriori clock (usec)		-3.5884619E+00		Resid sbdelay (usec)		3.97025E-01	+/- 1.6E-03
Phase delay (usec)	-7.44699571933E+00		Apriori clockrate (us/s)		-1.6700000E-07		Resid phdelay (usec)		-3.89256E-06	+/- 6.7E-07
Delay rate (us/s)	1.52548177925E+00		Apriori rate (us/s)		1.52548952662E+00		Resid rate (us/s)		-7.74737E-06	+/- 6.4E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.77647169387E-05		Resid phase (deg)		-120.7	+/- 20.7

ph/seg (deg) 51.8 48.5 Search (1024X32) 0.149 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 80.8 84.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 28.5 29.2 Inc. seg. avg. 0.192 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 39.5 51.0 Inc. frq. avg. 0.179 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
I: az 72.7 el 39.2 pa -68.9 Z: az 270.2 el 39.7 pa 36.7 u,v (fr/asec) -10526.335 -2963.194 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/IZ..18UHRL Output file: /Exps/c201b/v1/1234/No0058/IZ.W.164.18UHRL