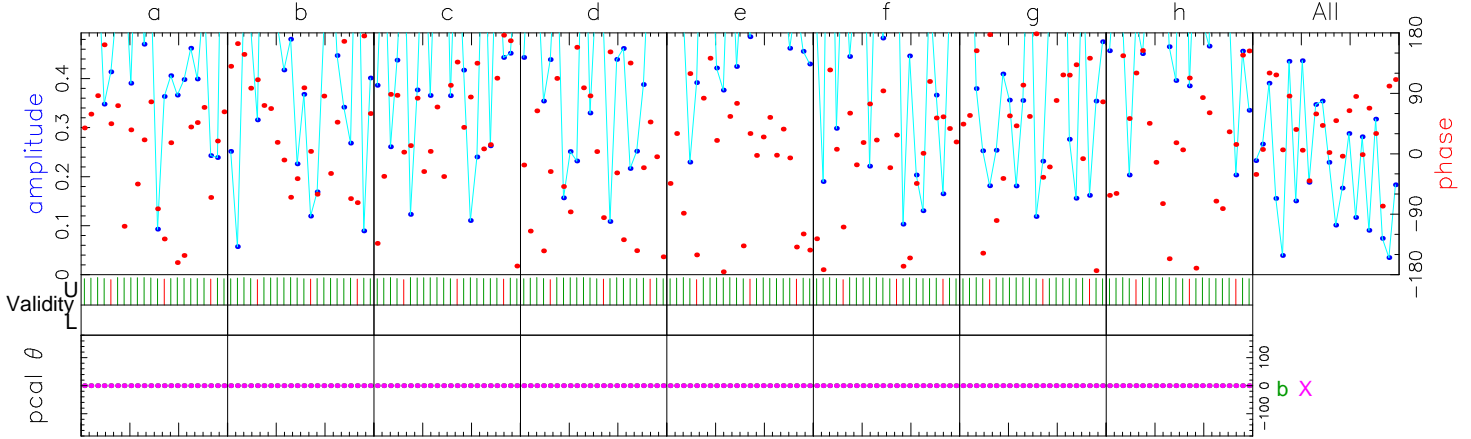


Fringe quality 0

SNR 5.6
 Int time 175.086
 Amp 0.164
 Phase 41.0
 PFD 9.1e-01
 Delays (us)
 SBD 0.102403
 MBD -0.002858
 Fringe rate (Hz)
 -0.366273
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

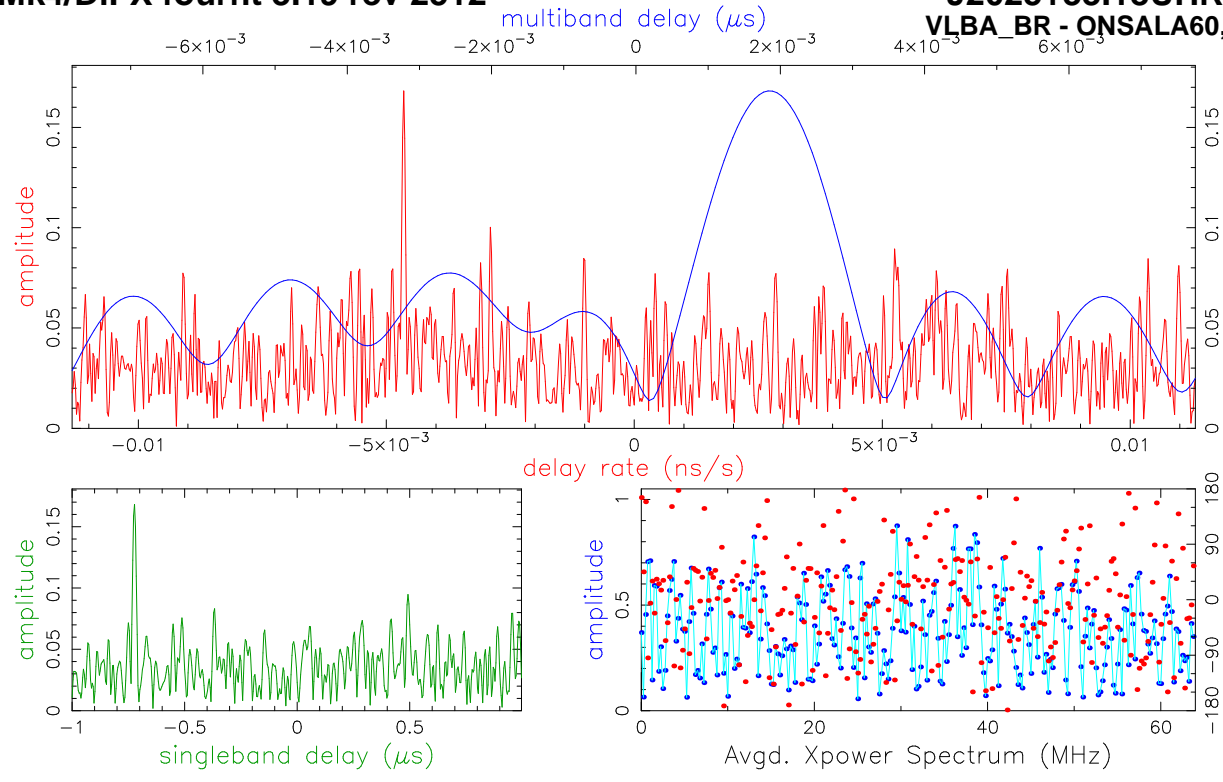
Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143656
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

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		
b	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:X	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		
X	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-3.72410909084E+03									
Sband delay (usec)	-3.72411320494E+03									
Phase delay (usec)	-3.72421560611E+03									
Delay rate (us/s)	1.41151252038E+00									
Total phase (deg)			-111.9							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									41.0	+/- 20.4

ph/seg (deg) 52.6 47.9 Search (1024X32) 0.153 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 89.6 83.6 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 28.9 Inc. seg. avg. 0.176 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 38.9 50.4 Inc. frq. avg. 0.154 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 74.4 el 33.0 pa -50.7 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -9716.326 38.176 ion window (TEC) 0.00 0.00
 simultaneous interpolator

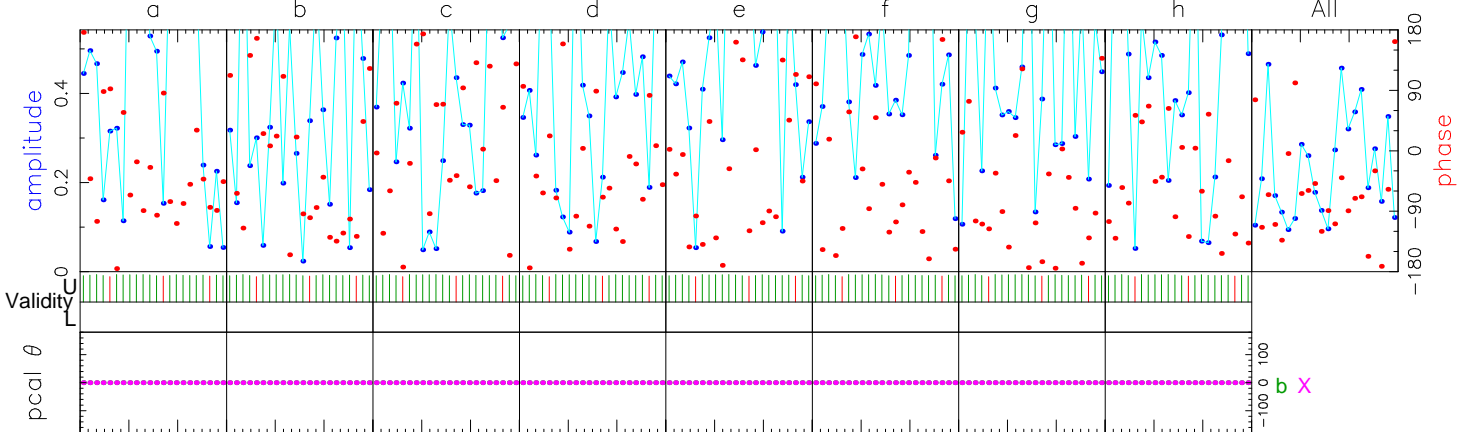


Fringe quality 0

SNR 6.1
 Int time 175.085
 Amp 0.181
 Phase -75.6
 PFD 1.3e-01
 Delays (us)
 SBD -0.723336
 MBD 0.001854
 Fringe rate (Hz)
 -0.400858
 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

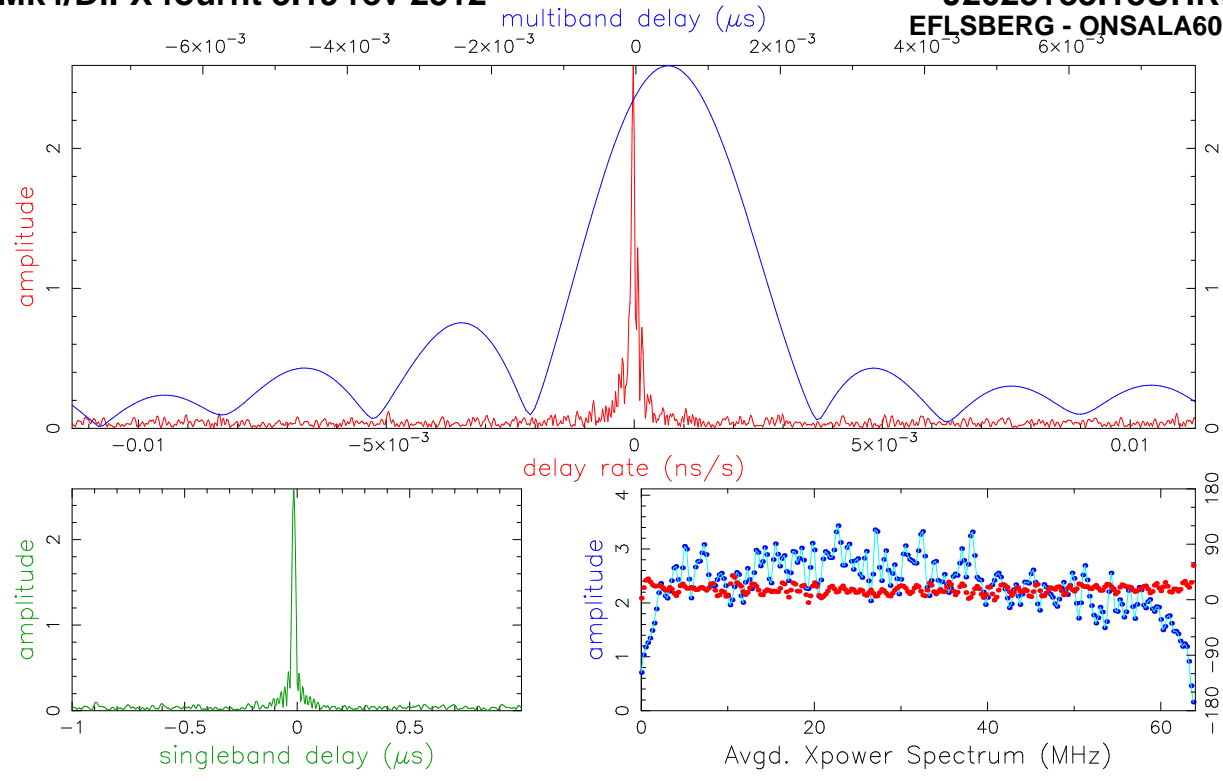


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-68.1	-110.9	-100.6	-53.2	-82.3	-81.9	-107.7	-60.6	Phase	-75.6
	0.3	0.1	0.0	0.2	0.1	0.2	0.2	0.3	Ampl.	0.2
	363.9	470.3	252.6	298.4	110.0	507.9	285.4	71.6	Sbd box	71.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.72493250361E+03		Apriori delay (usec)		-3.72421560744E+03		Resid mbdelay (usec)		1.85382E-03	+/- 1.8E-04
Sband delay (usec)	-3.72493894319E+03		Apriori clock (usec)		-4.2174080E+01		Resid sbdelay (usec)		-7.23336E-01	+/- 1.4E-03
Phase delay (usec)	-3.72421560987E+03		Apriori clockrate (us/s)		-5.6999999E-07		Resid phdelay (usec)		-2.43841E-06	+/- 6.1E-07
Delay rate (us/s)	1.41151211889E+00		Apriori rate (us/s)		1.41151677245E+00		Resid rate (us/s)		-4.65356E-06	+/- 5.8E-09
Total phase (deg)			Apriori accel (us/s/s)		1.34353510531E-05		Resid phase (deg)		-75.6	+/- 18.8

ph/seg (deg) 68.7 44.0 Search (1024X32) 0.163 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 79.0 76.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.0 26.6 Inc. seg. avg. 0.195 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 55.8 46.4 Inc. frq. avg. 0.173 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 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -9716.326 38.176 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bX.W.122.18UHRL

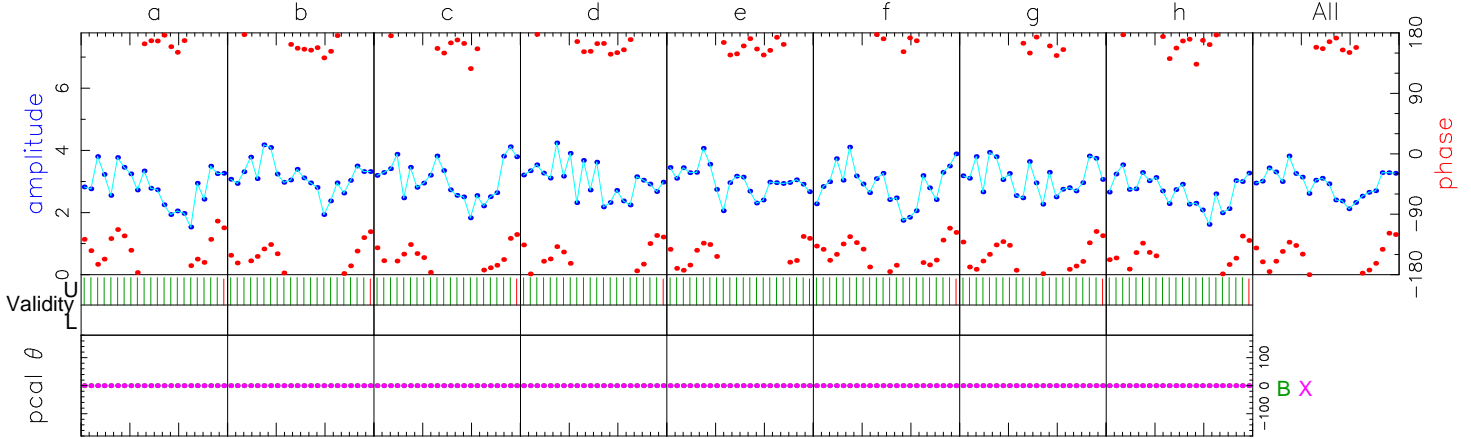
Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, BX
EFLSBERG - ONSALA60, fgroup W, pol LL



Fringe quality 6
SNR 95.1
Int time 179.738
Amp 2.593
Phase -164.5
PFD 0.0e+00
Delays (us)
SBD -0.015218
MBD 0.000457
Fringe rate (Hz)
-0.001629
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
2020:199:143639
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

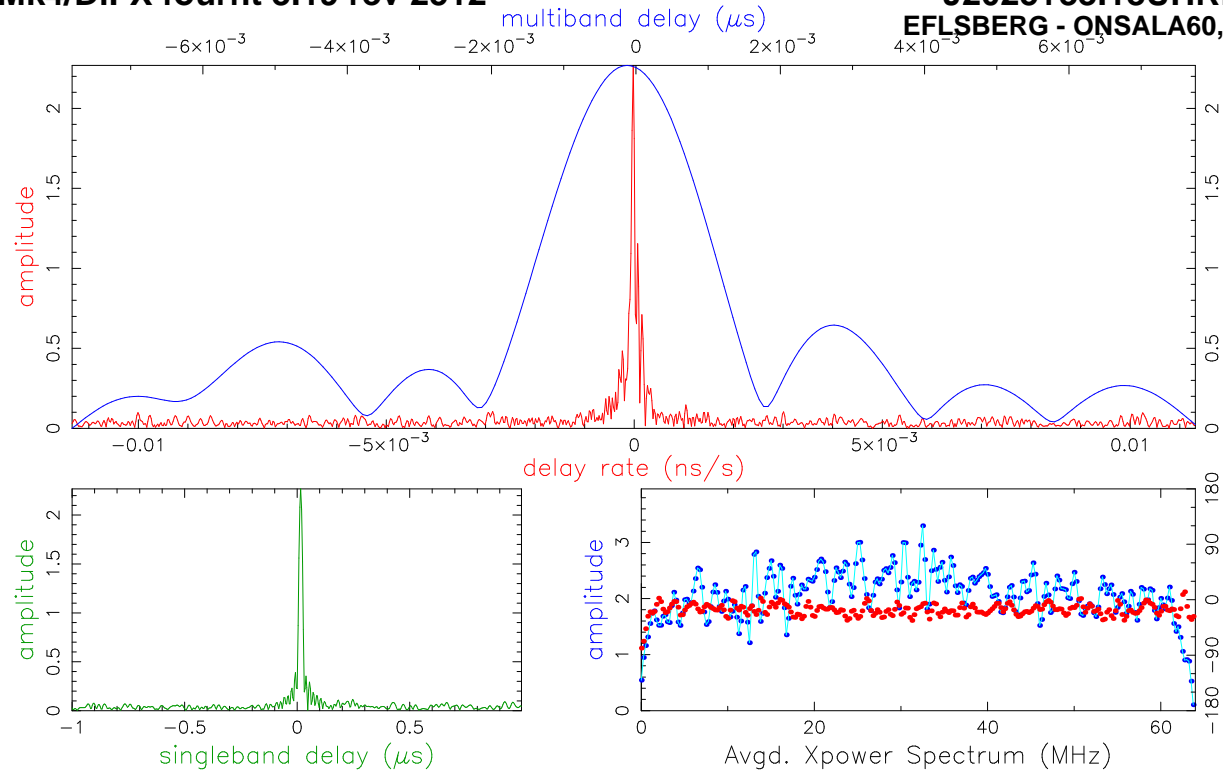


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd) 8.99268564305E+02 Apriori delay (usec) 8.99283731854E+02 Resid mbdelay (usec) 4.57450E-04 +/- 1.1E-05
Sband delay (usec) 8.99268514104E+02 Apriori clock (usec) -2.7716276E+01 Resid sbdelay (usec) -1.52178E-02 +/- 9.1E-05
Phase delay (usec) 8.99283726551E+02 Apriori clockrate (us/s) -7.2800002E-07 Resid phdelay (usec) -5.30313E-06 +/- 3.9E-08
Delay rate (us/s) -5.97925780776E-02 Apriori rate (us/s) -5.97925591648E-02 Resid rate (us/s) -1.89128E-08 +/- 3.7E-10
Total phase (deg) 73.8 Apriori accel (us/s/s) -9.36109601306E-06 Resid phase (deg) -164.5 +/- 1.2

RMS Theor. Amplitude 2.593 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 28.3 2.8 Search (1024X32) 2.577 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 20.6 4.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg) 8.3 1.7 Inc. seg. avg. 2.928 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
amp/frq (%) 5.0 3.0 Inc. frq. avg. 2.609 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 264.9 el 50.1 pa 49.5 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) 404.284 -1014.320 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/BX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/BX.W.36.18UHRL

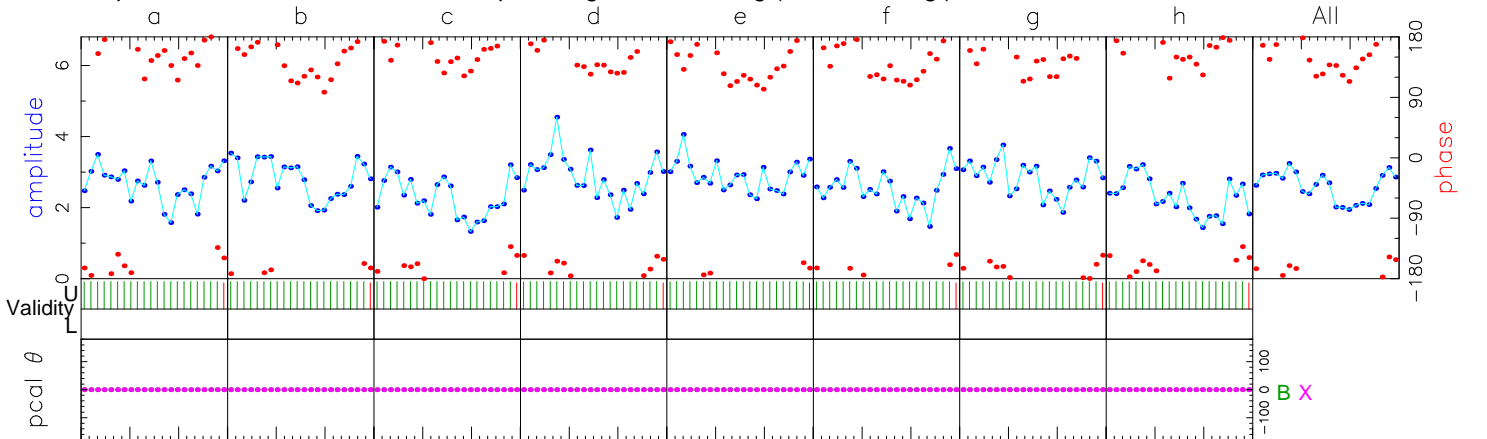


Fringe quality 6

SNR 83.2
Int time 179.738
Amp 2.269
Phase 163.9
PFD 0.0e+00
Delays (us)
SBD 0.015512
MBD -0.000122
Fringe rate (Hz)
-0.001695
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

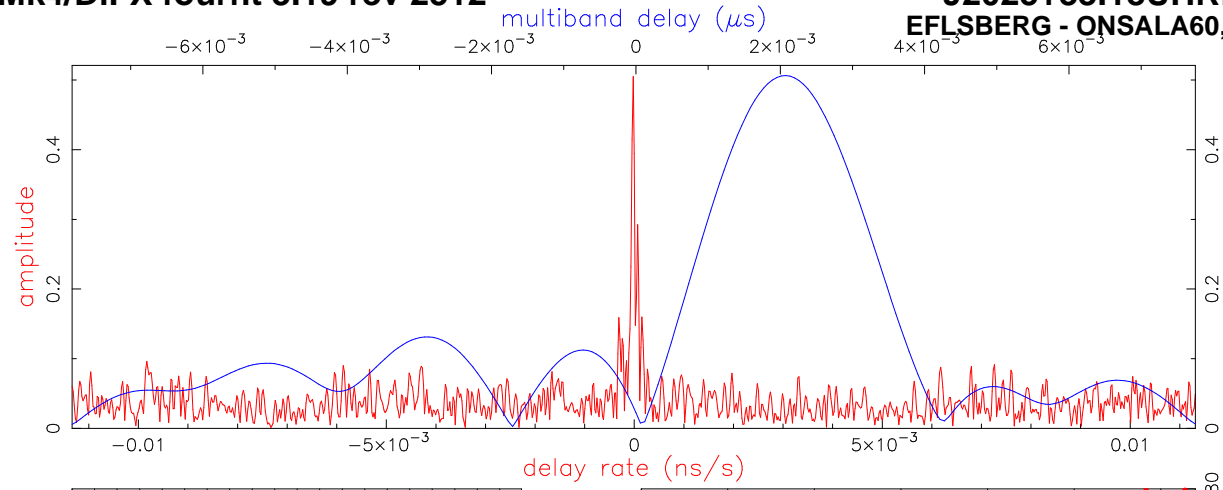
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090000.00
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143642
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

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
	171.5	156.9	170.4	170.1	147.5	156.2	164.3	177.7	Phase	163.9
	2.3	2.4	2.0	2.5	2.5	2.1	2.5	2.0	Ampl.	2.3
	260.1	260.9	261.3	260.8	261.0	261.3	261.4	260.5	Sbd box	261.0
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	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	8.99299234523E+02		Apriori delay (usec)		8.99283731854E+02		Resid mbdelay (usec)		-1.22331E-04	+/- 1.3E-05
Sband delay (usec)	8.99299244354E+02		Apriori clock (usec)		-2.7716276E+01		Resid sbdelay (usec)		1.55125E-02	+/- 1.0E-04
Phase delay (usec)	8.99283737141E+02		Apriori clockrate (us/s)		-7.2800002E-07		Resid phdelay (usec)		5.28629E-06	+/- 4.4E-08
Delay rate (us/s)	-5.97925788457E-02		Apriori rate (us/s)		-5.97925591648E-02		Resid rate (us/s)		-1.96809E-08	+/- 4.3E-10
Total phase (deg)	42.2		Apriori accel (us/s/s)		-9.36109601306E-06		Resid phase (deg)		163.9	+/- 1.4

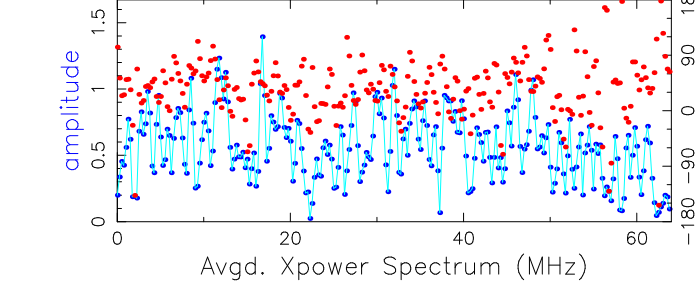
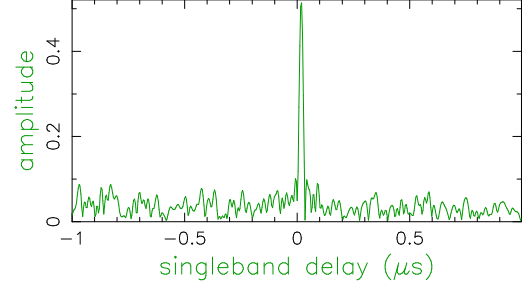
ph/seg (deg) 29.7 3.2 Search (1024X32) 2.249 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 23.1 5.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 10.9 1.9 Inc. seg. avg. 2.602 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 8.6 3.4 Inc. frq. avg. 2.298 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 264.9 el 50.1 pa 49.5 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) 404.284 -1014.320 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/BX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/BX.W.50.18UHRL



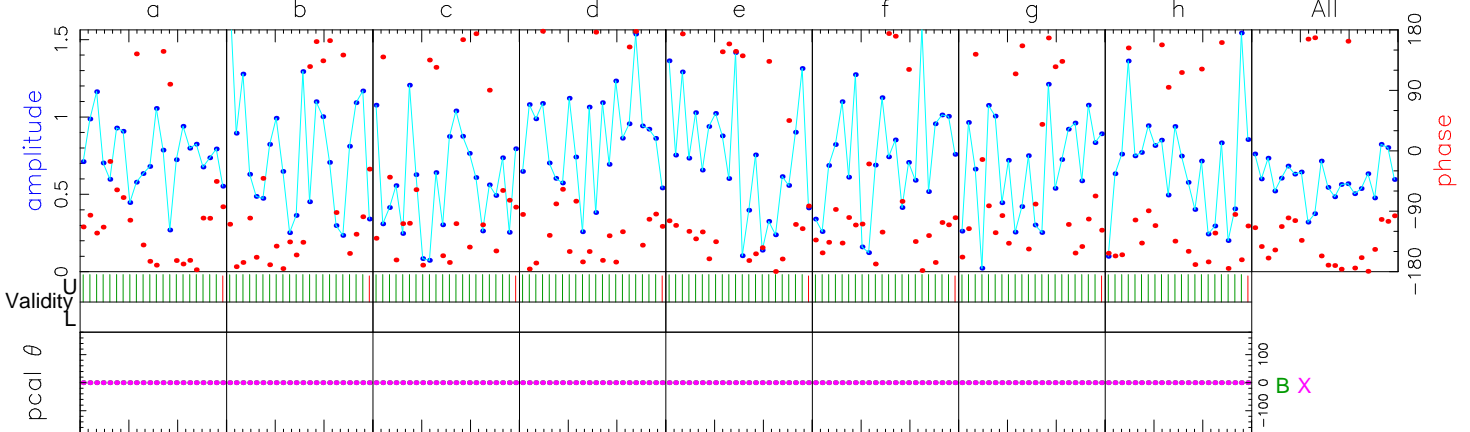
Fringe quality 9

SNR 19.1
Int time 179.738
Amp 0.521
Phase -142.6
PFD 0.0e+00
Delays (us)
SBD 0.017963
MBD 0.002155
Fringe rate (Hz) -0.001660
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
2020:199:143646
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



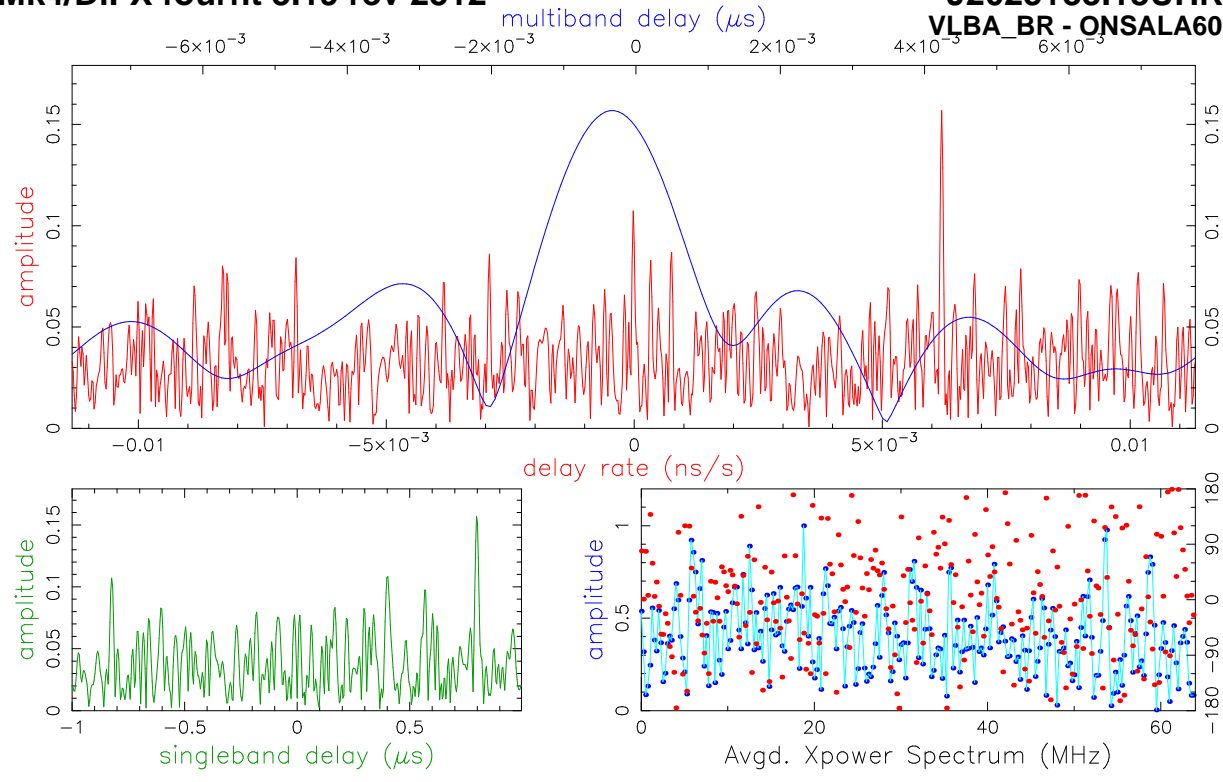
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-126.4	-149.2	-134.0	-144.5	-149.7	-136.4	-136.3	-160.0	Phase	-142.6
	0.5	0.6	0.3	0.7	0.5	0.6	0.4	0.5	Ampl.	0.5
	261.3	261.5	262.4	261.3	261.5	261.1	261.9	262.2	Sbd box	261.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	8.99301511430E+02		Apriori delay (usec)		8.99283731854E+02		Resid mbdelay (usec)		2.15458E-03	+/- 5.7E-05
Sband delay (usec)	8.99301694354E+02		Apriori clock (usec)		-2.7716276E+01		Resid sbdelay (usec)		1.79625E-02	+/- 4.5E-04
Phase delay (usec)	8.99283727255E+02		Apriori clockrate (us/s)		-7.2800002E-07		Resid phdelay (usec)		-4.59889E-06	+/- 1.9E-07
Delay rate (us/s)	-5.97925784390E-02		Apriori rate (us/s)		-5.97925591648E-02		Resid rate (us/s)		-1.92742E-08	+/- 1.9E-09
Total phase (deg)			Apriori accel (us/s/s)		-9.36109601306E-06		Resid phase (deg)		-142.6	+/- 6.0

	RMS	Theor.	Amplitude	0.521 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	33.0	14.1	Search (1024X32)	0.502	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	27.9	24.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	11.6	8.5	Inc. seg. avg.	0.579	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	18.5	14.8	Inc. frq. avg.	0.507	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, bX

VLBA_BR - ONSALA60, fgroup W, pol LL

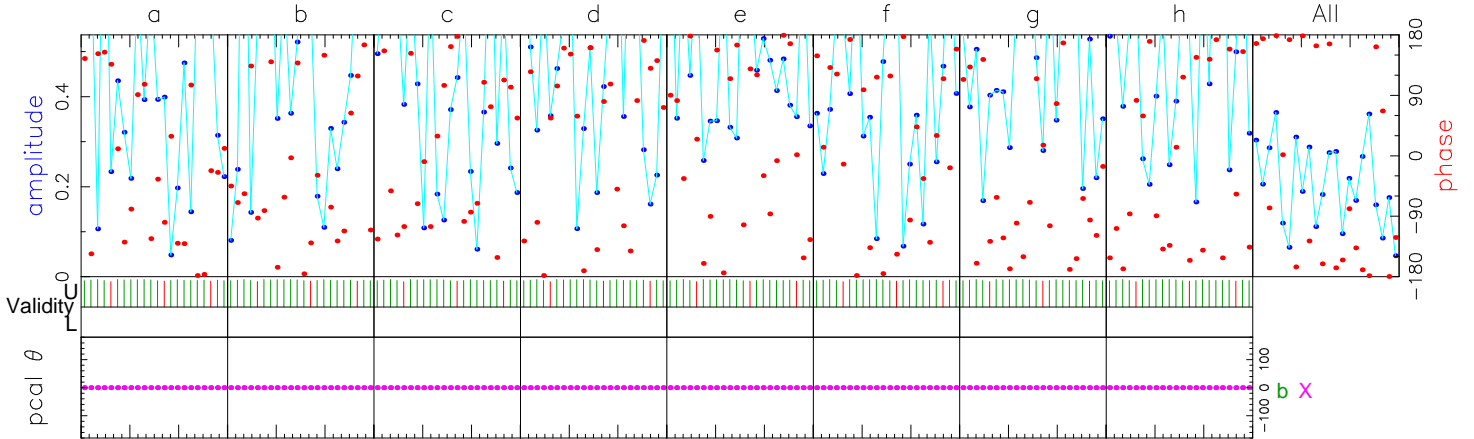


Fringe quality 0

SNR 5.7
 Int time 175.086
 Amp 0.179
 Phase -165.5
 PFD 7.5e-01
 Delays (us)
 SBD 0.797970
 MBD -0.000311
 Fringe rate (Hz) 0.534656
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

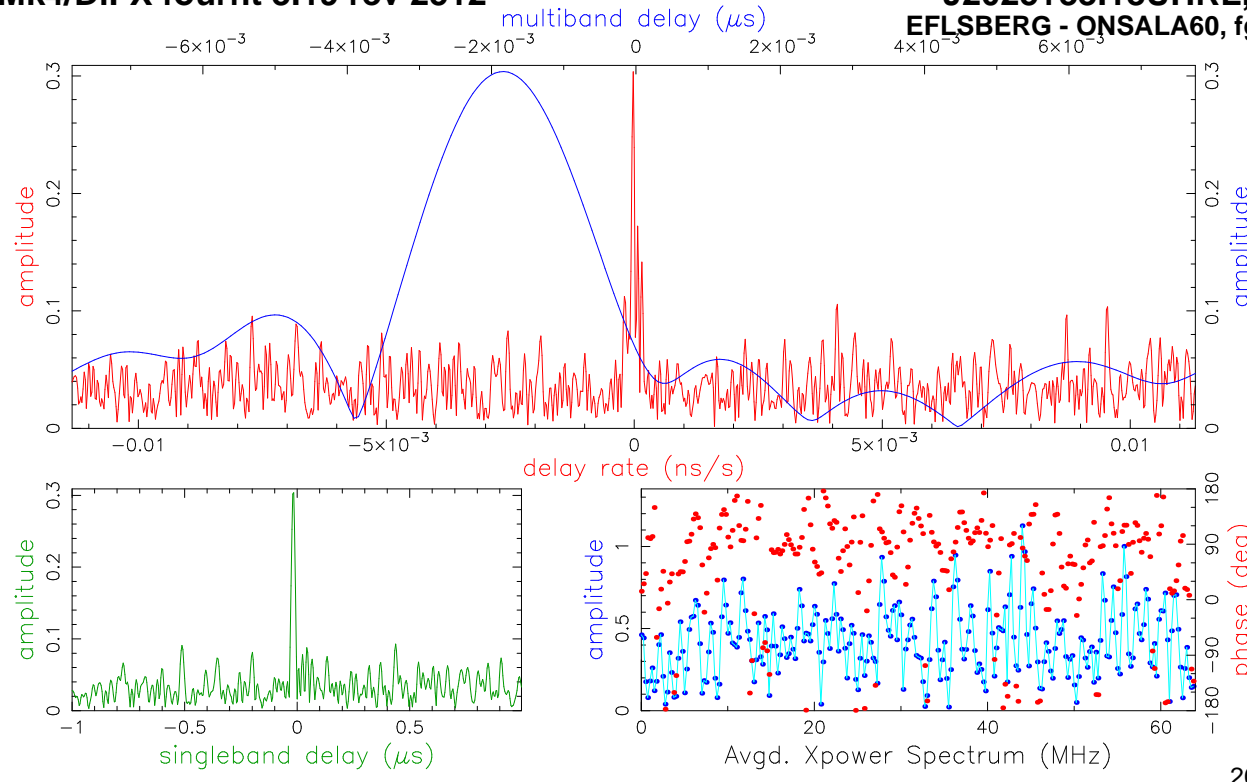
Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143650
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

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
	-169.5	-127.8	-156.3	156.5	-174.9	157.7	-138.9	-163.4	Phase	-165.5
	0.2	0.2	0.1	0.2	0.1	0.2	0.3	0.3	Ampl.	0.2
	183.1	483.2	88.1	453.6	358.4	355.2	262.1	461.1	Sbd box	461.3
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	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.72341904378E+03		Apriori delay (usec)		-3.72421560744E+03		Resid mbdelay (usec)		-3.11348E-04	+/- 1.9E-04
Sband delay (usec)	-3.72341763719E+03		Apriori clock (usec)		-4.2174080E+01		Resid sbdelay (usec)		7.97970E-01	+/- 1.5E-03
Phase delay (usec)	-3.72421561277E+03		Apriori clockrate (us/s)		-5.6999999E-07		Resid phdelay (usec)		-5.33636E-06	+/- 6.5E-07
Delay rate (us/s)	1.41152297927E+00		Apriori rate (us/s)		1.41151677245E+00		Resid rate (us/s)		6.20682E-06	+/- 6.2E-09
Total phase (deg)			Apriori accel (us/s/s)		1.34353510531E-05		Resid phase (deg)		-165.5	+/- 20.1

ph/seg (deg) 55.5 47.0 Search (1024X32) 0.152 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 66.7 82.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 29.2 28.4 Inc. seg. avg. 0.176 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.7 49.5 Inc. frq. avg. 0.176 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 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -9716.326 38.176 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bX.W.83.18UHRL

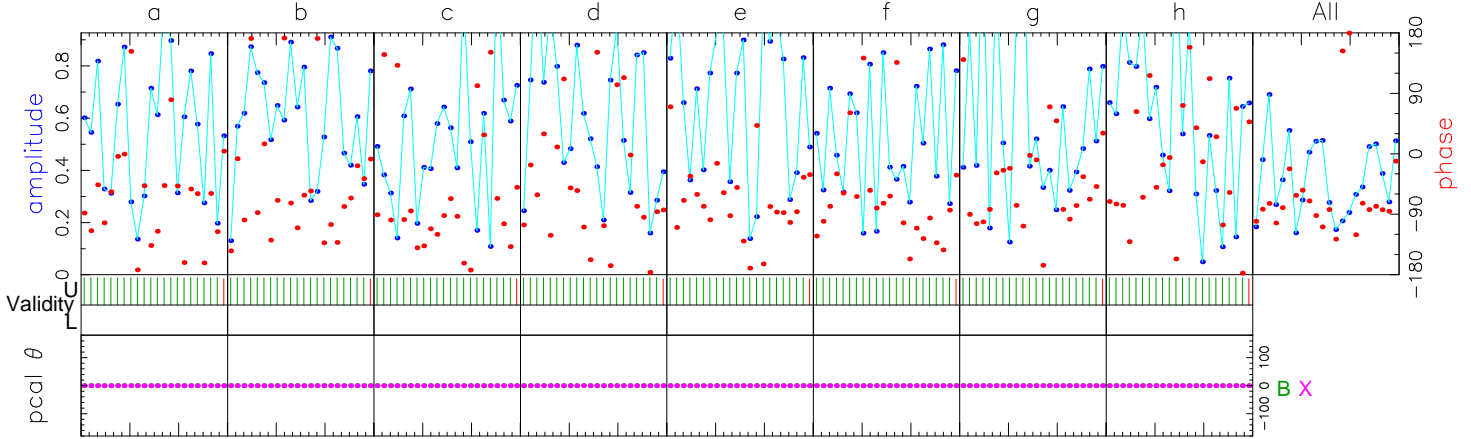


Fringe quality 9

SNR 11.3
Int time 179.738
Amp 0.309
Phase -80.4
PFD 2.2e-21
Delays (us)
SBD -0.017425
MBD -0.001890
Fringe rate (Hz)
-0.001512
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
2020:199:143650
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



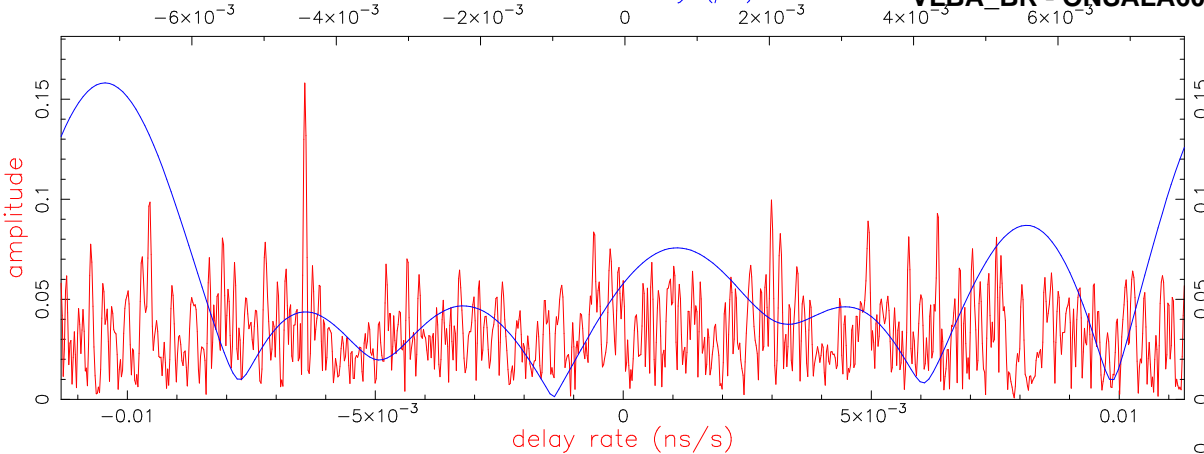
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-63.7	-86.3	-105.3	-78.9	-76.2	-88.3	-65.7	-78.6		-80.4
	0.3	0.4	0.3	0.2	0.5	0.3	0.4	0.1		0.3
	251.3	252.0	251.7	275.0	253.3	253.5	253.0	34.0		252.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
X	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
B	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks
										Tracks
Group delay (usec)(sbd)	8.99266216711E+02		Apriori delay (usec)		8.99283731854E+02		Resid mbdelay (usec)		-1.89014E-03	+/- 9.6E-05
Sband delay (usec)	8.99266306604E+02		Apriori clock (usec)		-2.7716276E+01		Resid sbdelay (usec)		-1.74253E-02	+/- 7.6E-04
Phase delay (usec)	8.99283729260E+02		Apriori clockrate (us/s)		-7.2800002E-07		Resid phdelay (usec)		-2.59414E-06	+/- 3.3E-07
Delay rate (us/s)	-5.97925767214E-02		Apriori rate (us/s)		-5.97925591648E-02		Resid rate (us/s)		-1.75566E-08	+/- 3.1E-09
Total phase (deg)	157.9		Apriori accel (us/s/s)		-9.36109601306E-06		Resid phase (deg)		-80.4	+/- 10.1

	RMS	Theor.	Amplitude	0.309 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	43.2	23.7	Search (1024X32)	0.300	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	50.2	41.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	14.3	14.3	Inc. seg. avg.	0.341	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	33.4	25.0	Inc. frq. avg.	0.302	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

B: az 264.9 el 50.1 pa 49.5 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) 404.284 -1014.320 simultaneous interpolator

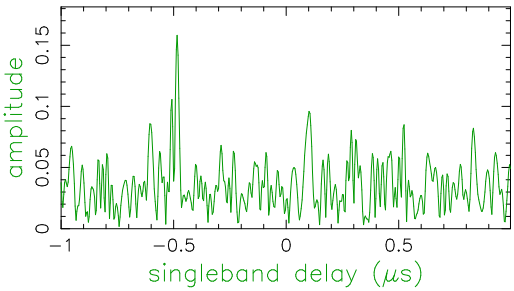
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/BX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/BX.W.84.18UHRL

multiband delay (μs)

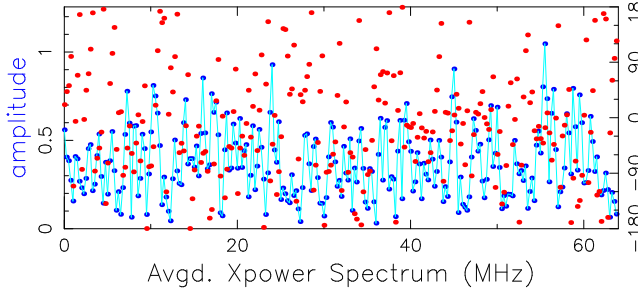


Fringe quality 0

SNR 5.7
 Int time 175.085
 Amp 0.181
 Phase -127.2
 PFD 7.2e-01
 Delays (us)
 SBD -0.484782
 MBD -0.007224
 Fringe rate (Hz)
 -0.554666
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

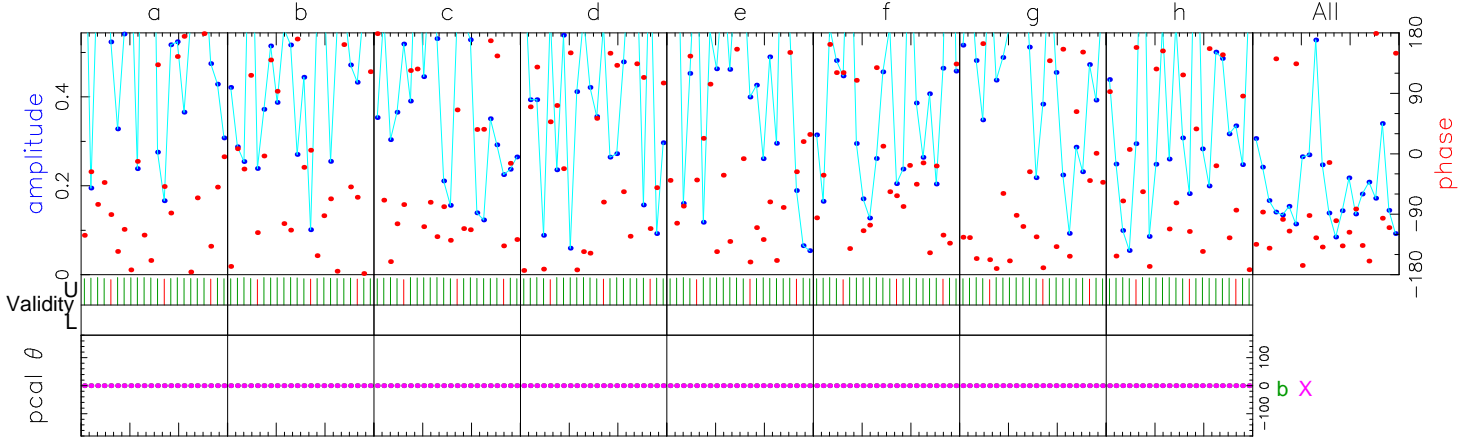


delay rate (ns/s)



Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143651
 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

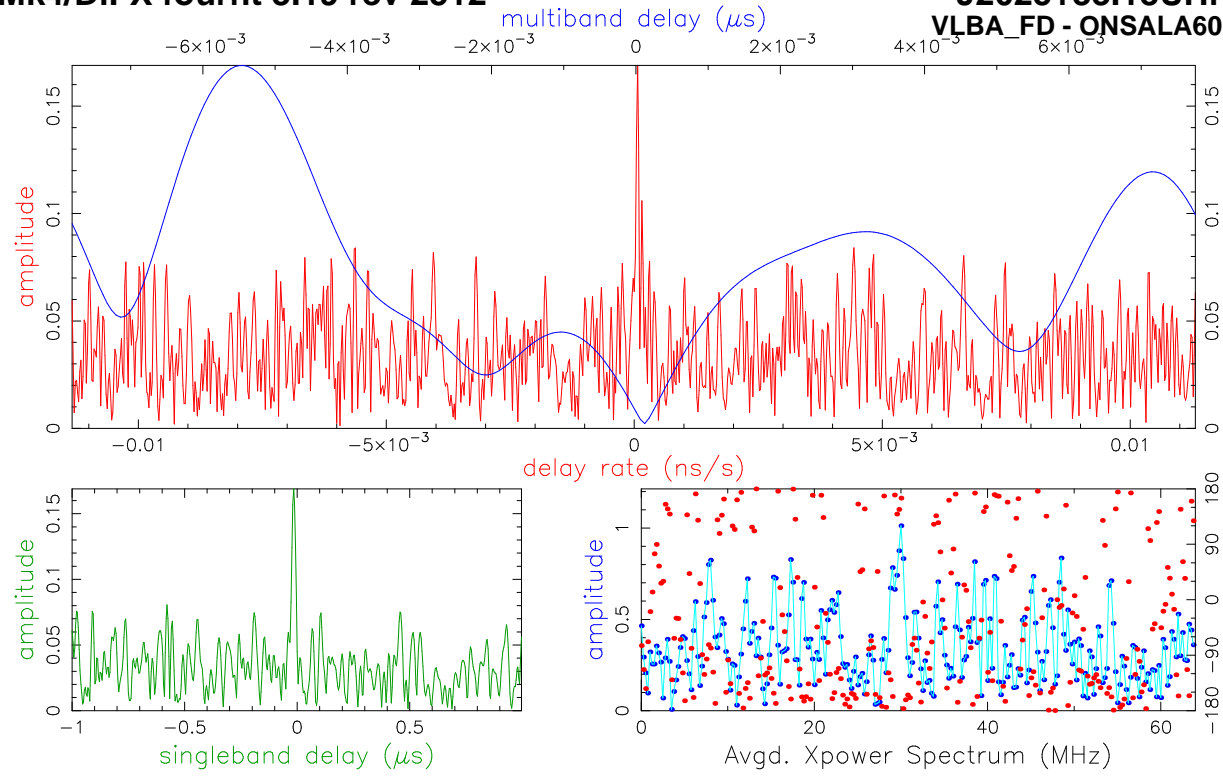


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-121.7	-154.3	-124.7	-172.7	-94.8	-118.4	-127.6	-149.8	Phase	-127.2
	0.4	0.1	0.2	0.1	0.2	0.1	0.3	0.1	Ampl.	0.2
	130.3	325.7	378.2	284.3	103.9	308.4	367.8	339.4	Sbd box	132.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-3.72470720688E+03	Apriori delay (usec)	-3.72421560744E+03	Resid mbdelay (usec)	-7.22445E-03	+/-	1.9E-04
Sband delay (usec)	-3.72470038969E+03	Apriori clock (usec)	-4.2174080E+01	Resid sbdelay (usec)	-4.84782E-01	+/-	1.5E-03
Phase delay (usec)	-3.72421561154E+03	Apriori clockrate (us/s)	-5.6999999E-07	Resid phdelay (usec)	-4.10118E-06	+/-	6.5E-07
Delay rate (us/s)	1.41151033332E+00	Apriori rate (us/s)	1.41151677245E+00	Resid rate (us/s)	-6.43913E-06	+/-	6.2E-09
Total phase (deg)	-280.0	Apriori accel (us/s/s)	1.34353510531E-05	Resid phase (deg)	-127.2	+/-	20.0

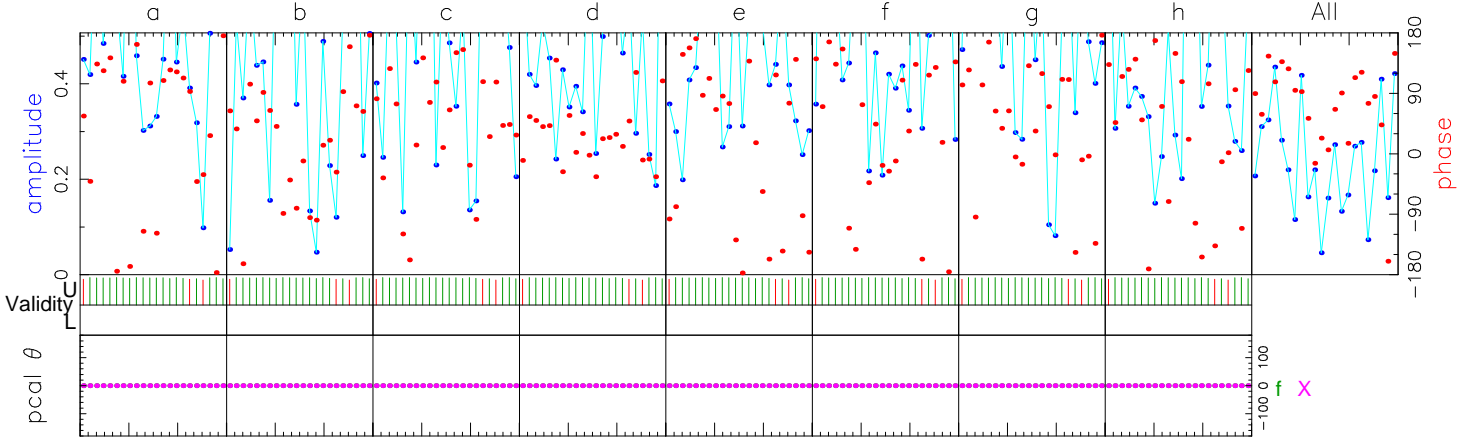
ph/seg (deg)	RMS 48.6	Theor. 46.9	Amplitude Search (1024X32)	0.153	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	67.9	81.9	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	27.3	28.3	Inc. seg. avg.	0.173	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	54.3	49.4	Inc. frq. avg.	0.172	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

b: az 74.4 el 33.0 pa -50.7 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -9716.326 38.176 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/bX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/bX.W.89.18UHRL



Fringe quality 0
 SNR 6.1
 Int time 175.948
 Amp 0.169
 Phase 93.4
 PFD 1.1e-01
 Delays (us)
 SBD -0.015534
 MBD -0.005463
 Fringe rate (Hz)
 0.005311
 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
 2020:199:143644
 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

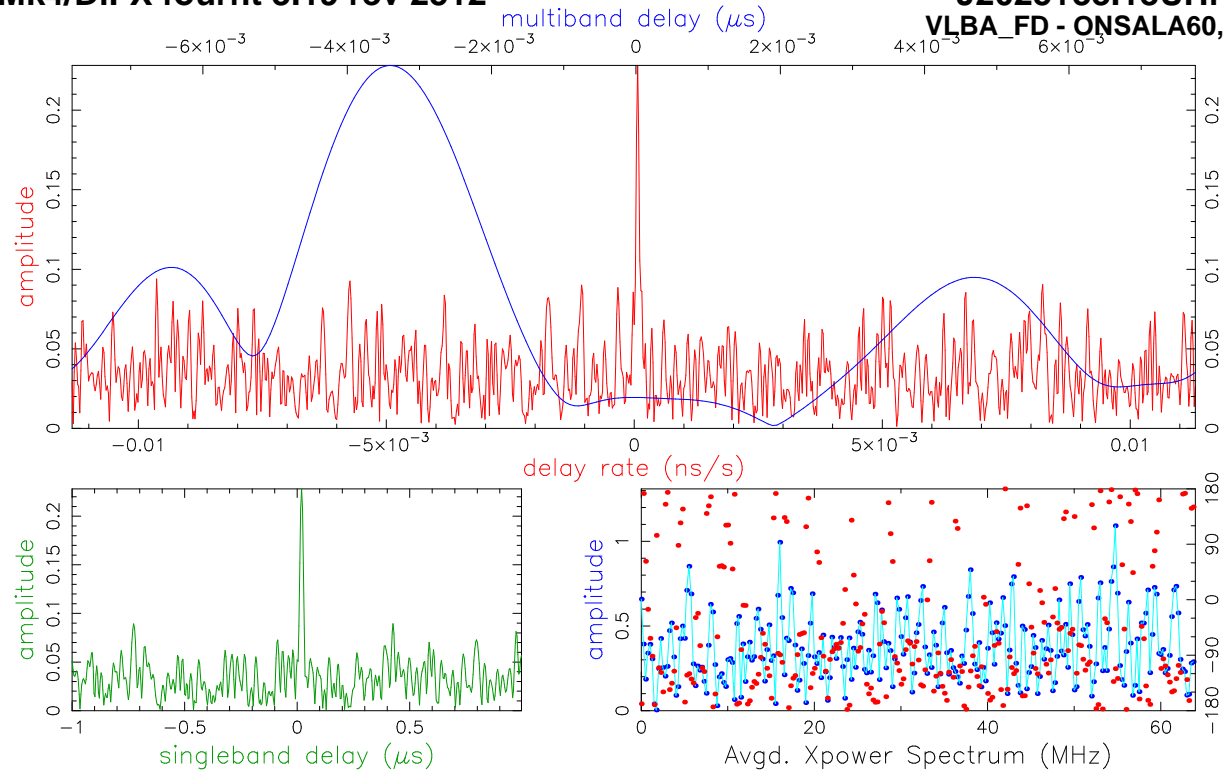


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-1.79515175199E+03	Apriori delay (usec)	-1.79513066404E+03	Resid mbdelay (usec)	-5.46294E-03	+/-	1.8E-04
Sband delay (usec)	-1.79514619754E+03	Apriori clock (usec)	-3.6865864E+01	Resid sbdelay (usec)	-1.55335E-02	+/-	1.4E-03
Phase delay (usec)	-1.79513066103E+03	Apriori clockrate (us/s)	-4.1900001E-07	Resid phdelay (usec)	3.01131E-06	+/-	6.0E-07
Delay rate (us/s)	1.53919773876E+00	Apriori rate (us/s)	1.53919767710E+00	Resid rate (us/s)	6.16601E-08	+/-	5.8E-09
Total phase (deg)		Apriori accel (us/s/s)	-1.15356804049E-05	Resid phase (deg)	93.4	+/-	18.7

ph/seg (deg)	51.8	Theor.	43.8	Amplitude	0.169 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	78.0	Search (1024X32)	0.167	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	44.6	Inc. seg. avg.	0.187	Inc. frq. avg.	0.201	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	58.6	Inc. frq. avg.	0.201			Sample rate(MISamp/s): 128	mb window (us) -0.008 0.008
						Data rate(Mb/s): 2048	dr window (ns/s) -0.011 0.011
						nlags: 256	t_cohere infinite
							ion window (TEC) 0.00 0.00

f: az 69.5 el 39.4 pa -75.8 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -10617.020 -2999.402 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/fX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/fX.W.58.18UHRL

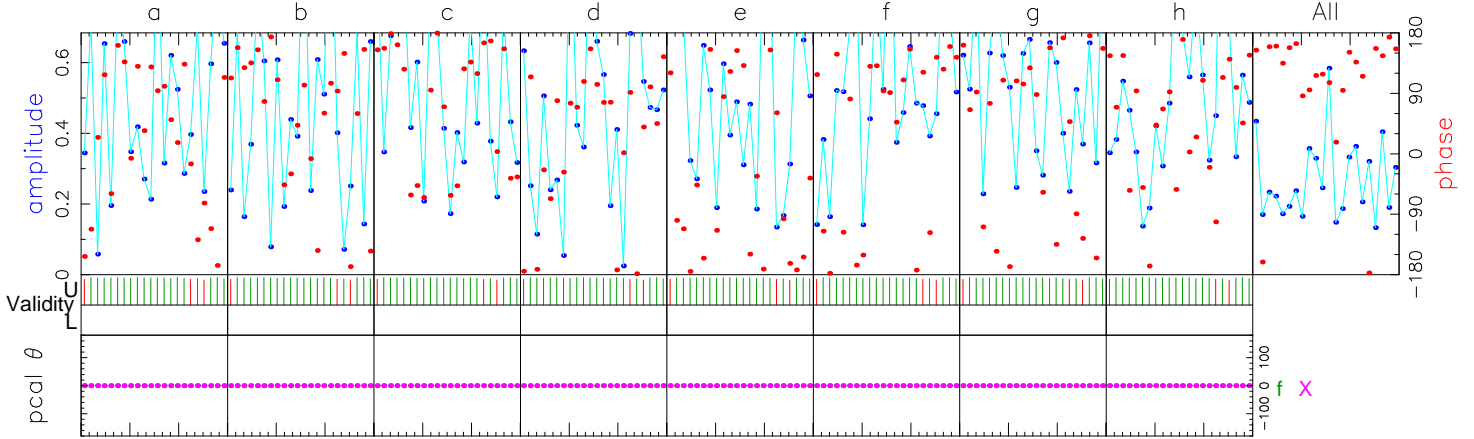


Fringe quality 9

SNR 8.3
 Int time 175.947
 Amp 0.228
 Phase 137.5
 PFD 2.2e-08
 Delays (us)
 SBD 0.019538
 MBD -0.003405
 Fringe rate (Hz) 0.005301
 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
 2020:199:143646
 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		
X	1000	1000	1000	1000	1000	1000	1000	1000		
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:X	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		
X	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-1.79511844442E+03	Apriori delay (usec)	-1.79513066404E+03	Resid mbdelay (usec)	-3.40538E-03	+/-	1.3E-04
Sband delay (usec)	-1.7951112604E+03	Apriori clock (usec)	-3.6865864E+01	Resid sbdelay (usec)	1.95380E-02	+/-	1.0E-03
Phase delay (usec)	-1.79513065961E+03	Apriori clockrate (us/s)	-4.1900001E-07	Resid phdelay (usec)	4.43402E-06	+/-	4.5E-07
Delay rate (us/s)	1.53919773864E+00	Apriori rate (us/s)	1.53919767710E+00	Resid rate (us/s)	6.15411E-08	+/-	4.3E-09
Total phase (deg)	-6.7	Apriori accel (us/s/s)	-1.15356804049E-05	Resid phase (deg)	137.5	+/-	13.8

ph/seg (deg)	RMS 39.3	Theor. 32.5	Amplitude Search (1024X32)	0.228 +/- 0.028	0.226	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	51.3	56.7	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	33.7	19.6	Inc. seg. avg.	0.233	0.233	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	30.2	34.2	Inc. frq. avg.	0.245	0.245	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

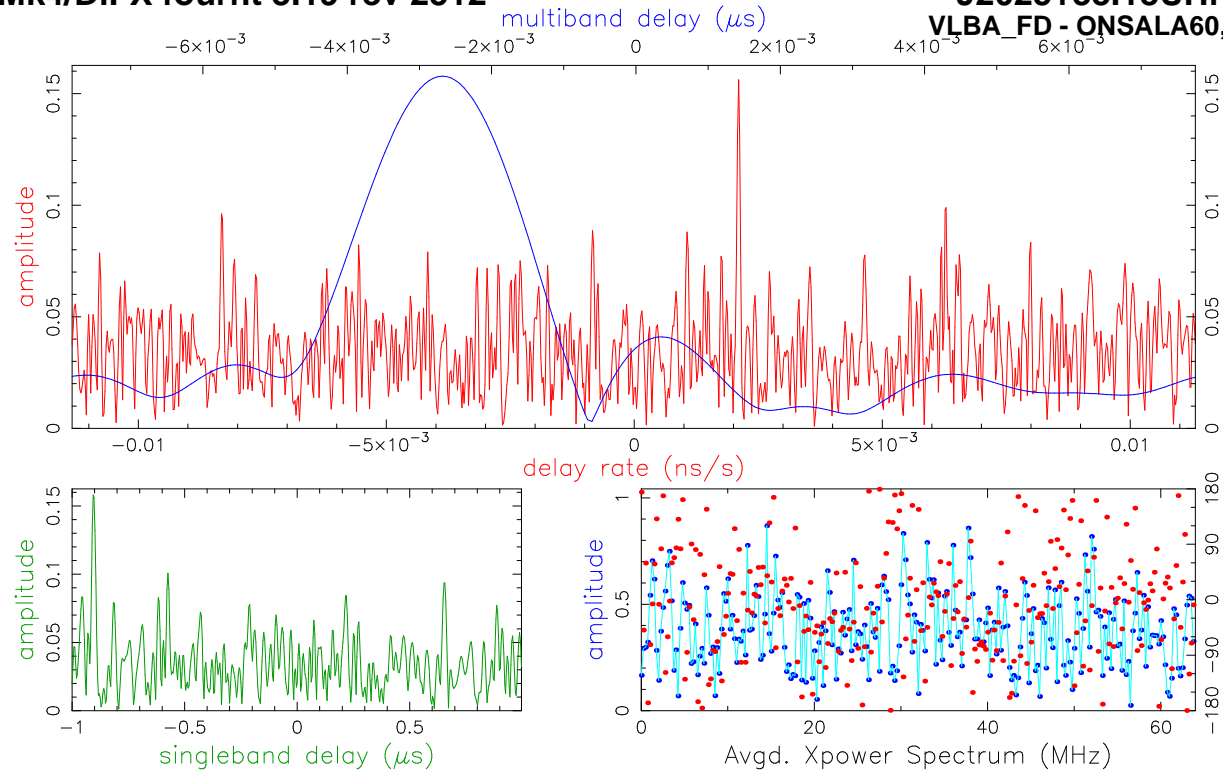
f: az 69.5 el 39.4 pa -75.8 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -10617.020 -2999.402 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/fX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/fX.W.66.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, fX

VLBA_FD - ONSALA60, fgroup W, pol LR

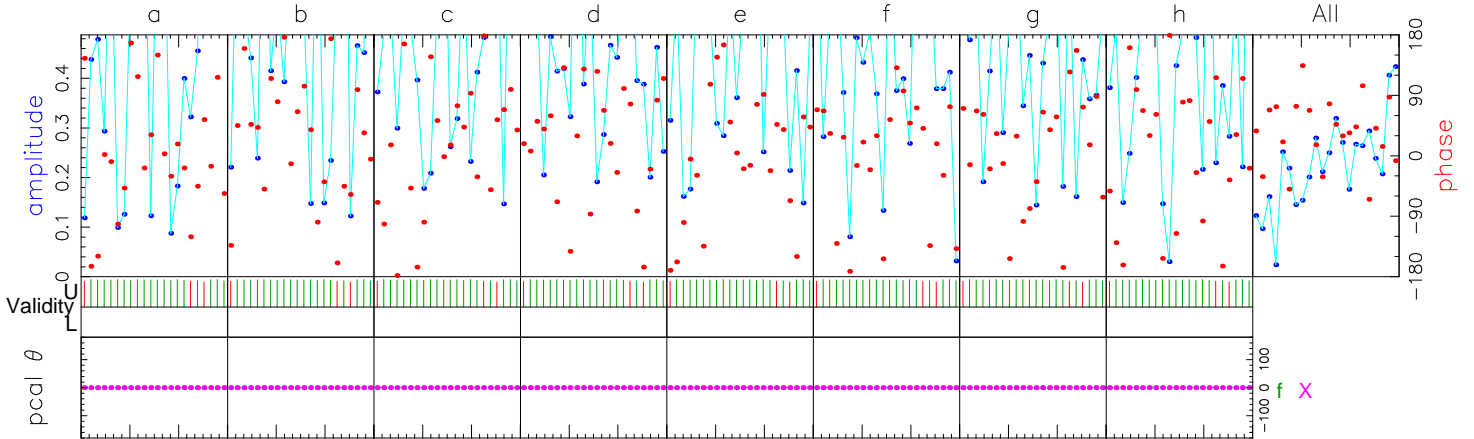


Fringe quality 0

SNR 5.8
 Int time 175.948
 Amp 0.163
 Phase 34.9
 PFD 5.3e-01
 Delays (us)
 SBD -0.904618
 MBD -0.002847
 Fringe rate (Hz)
 0.182420
 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
 2020:199:143647
 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



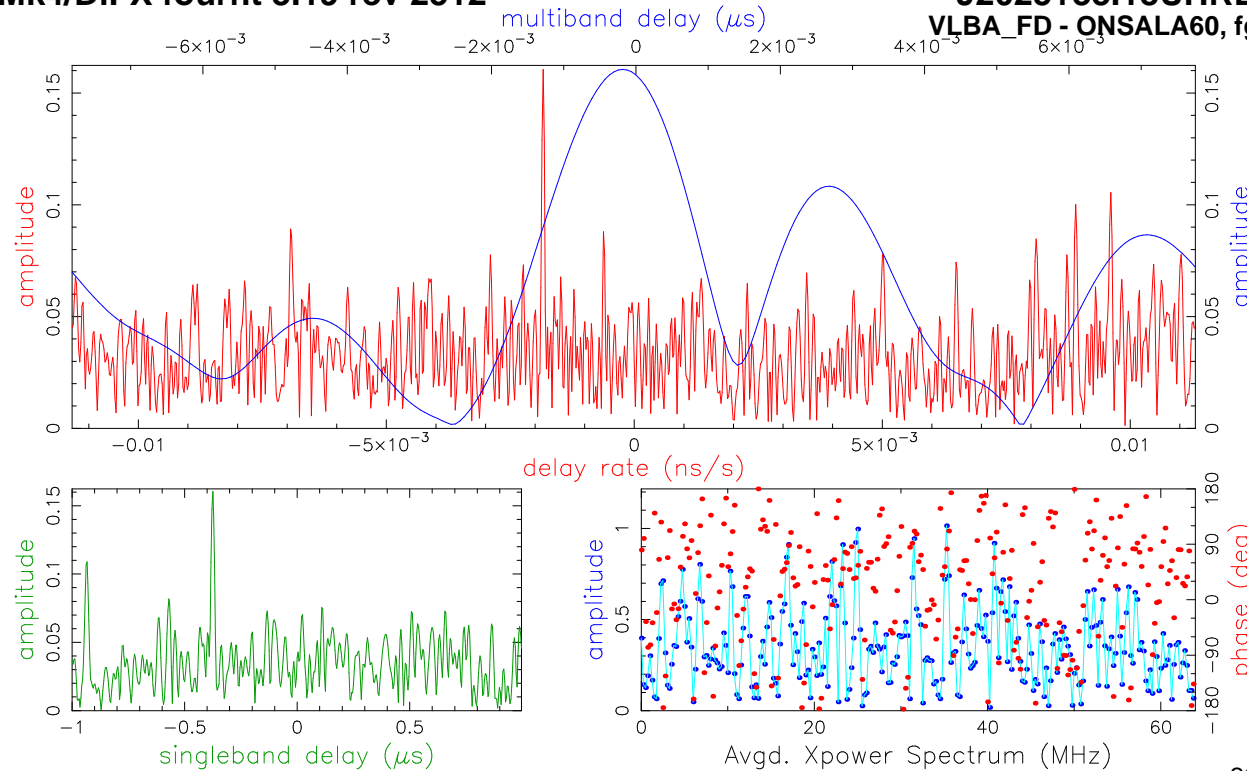
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0			
f	1000	1000	1000	1000	1000	1000	1000	1000			
X	1000	1000	1000	1000	1000	1000	1000	1000			
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
f	1000	1000	1000	1000	1000	1000	1000	1000			
X	1000	1000	1000	1000	1000	1000	1000	1000			
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)		-1.79603976074E+03				-1.79513066404E+03			Resid mbdelay (usec)	-2.84670E-03	+/- 1.9E-04
Sband delay (usec)		-1.79603528204E+03				-3.6865864E+01			Resid sbdelay (usec)	-9.04618E-01	+/- 1.5E-03
Phase delay (usec)		-1.79513066292E+03				-4.1900001E-07			Resid phdelay (usec)	1.12407E-06	+/- 6.4E-07
Delay rate (us/s)		1.53919979482E+00				1.53919767710E+00			Resid rate (us/s)	2.11772E-06	+/- 6.1E-09
Total phase (deg)			-109.3			-1.15356804049E-05			Resid phase (deg)	34.9	+/- 19.7

ph/seg (deg) 49.2 46.2 Search (1024X32) 0.153 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 70.2 80.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 15.0 27.9 Inc. seg. avg. 0.173 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 26.2 48.6 Inc. frq. avg. 0.144 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 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -10617.020 -2999.402 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/fX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/fX.W.75.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, fX

VLBA_FD - ONSALA60, fgroup W, pol RL

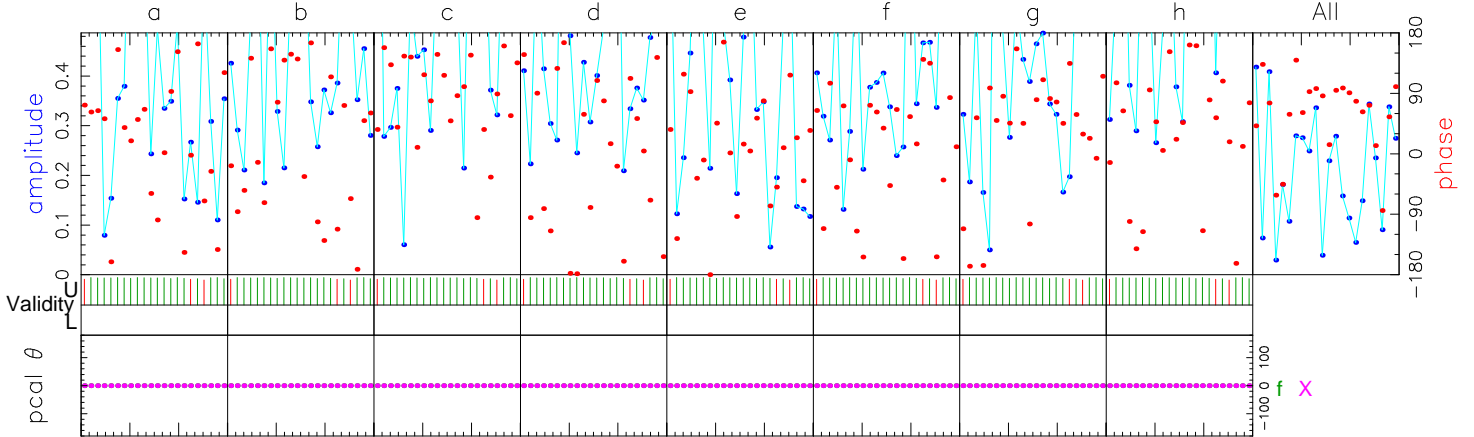


Fringe quality 0

SNR 5.8
 Int time 175.947
 Amp 0.162
 Phase 70.9
 PFD 5.1e-01
 Delays (us)
 SBD -0.375272
 MBD -0.000197
 Fringe rate (Hz)
 -0.157753
 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
 2020:199:143651
 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



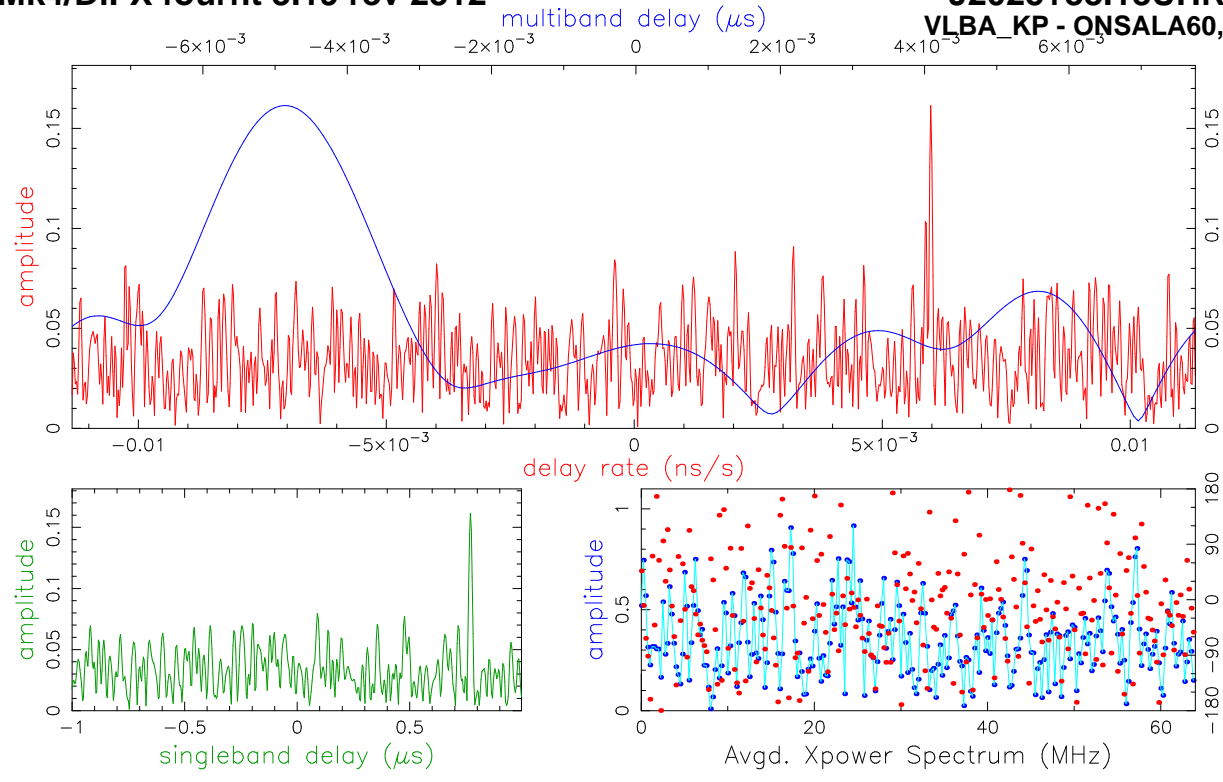
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-1.79550586135E+03	Apriori delay (usec)	-1.79513066404E+03	Resid mbdelay (usec)	-1.97308E-04	+/-	1.9E-04
Sband delay (usec)	-1.79550593629E+03	Apriori clock (usec)	-3.6865864E+01	Resid sbdelay (usec)	-3.75272E-01	+/-	1.5E-03
Phase delay (usec)	-1.79513066175E+03	Apriori clockrate (us/s)	-4.1900001E-07	Resid phdelay (usec)	2.28692E-06	+/-	6.3E-07
Delay rate (us/s)	1.53919584574E+00	Apriori rate (us/s)	1.53919767710E+00	Resid rate (us/s)	-1.83136E-06	+/-	6.1E-09
Total phase (deg)		Apriori accel (us/s/s)	-1.15356804049E-05	Resid phase (deg)	70.9	+/-	19.7

ph/seg (deg)	58.9	Theor.	46.1	Amplitude	0.162 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	79.0		80.5	Search (1024X32)	0.157	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	SampCntNorm:	enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	42.8		27.8	Interp.	0.000	Bits/sample:	2x2	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	56.0		48.5	Inc. seg. avg.	0.162	Data rate (Mb/s):	2048	nlags:	256	ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.166			t_cohere:	infinite			

f: az 69.5 el 39.4 pa -75.8 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -10617.020 -2999.402 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/fX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/fX.W.86.18UHRL

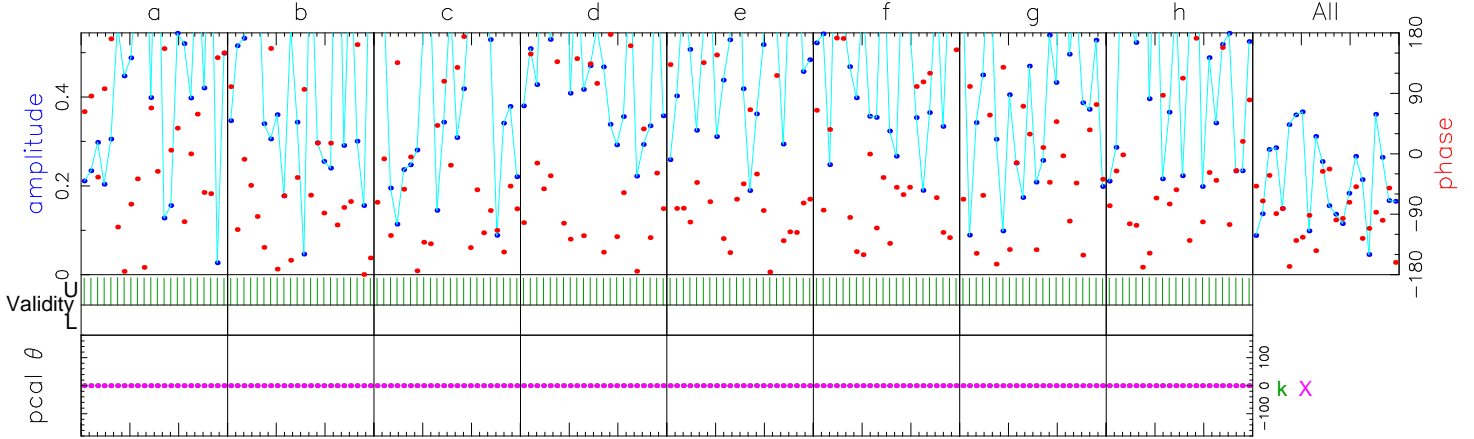


Fringe quality 0

SNR 5.9
 Int time 178.593
 Amp 0.182
 Phase -94.7
 PFD 3.7e-01
 Delays (us)
 SBD 0.769702
 MBD -0.004861
 Fringe rate (Hz)
 0.514822
 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
 2020:199:143655
 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

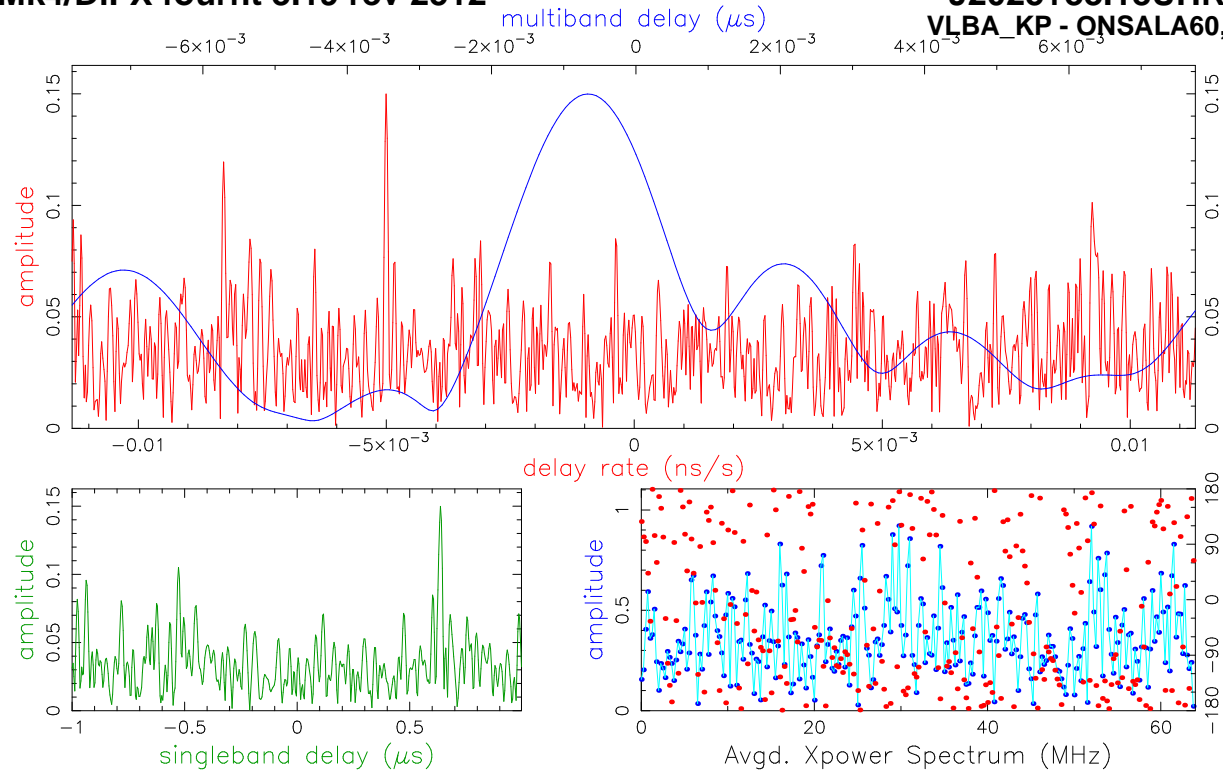


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-45.7	-96.2	-93.3	-131.7	-103.8	-114.2	-19.0	-97.8	Phase	-94.7
	0.1	0.3	0.2	0.2	0.3	0.2	0.2	0.2	Ampl.	0.2
	205.2	453.6	169.1	509.7	453.7	256.2	187.1	88.2	Sbd box	454.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.47720302866E+03		Apriori delay (usec)		-3.47797941790E+03		Resid mbdelay (usec)		-4.86075E-03	+/- 1.8E-04
Sband delay (usec)	-3.47720971615E+03		Apriori clock (usec)		-4.1110420E+01		Resid sbdelay (usec)		7.69702E-01	+/- 1.5E-03
Phase delay (usec)	-3.47797942096E+03		Apriori clockrate (us/s)		-5.2260003E-07		Resid phdelay (usec)		-3.05271E-06	+/- 6.3E-07
Delay rate (us/s)	1.58993727017E+00		Apriori rate (us/s)		1.58993129359E+00		Resid rate (us/s)		5.97658E-06	+/- 6.0E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.37351330525E-06		Resid phase (deg)		-94.7	+/- 19.4

	RMS	Theor.	Amplitude	0.182 +/- 0.031	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	40.9	45.5	Search (1024X32)	0.160	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	68.1	79.5	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	40.8	27.5	Inc. seg. avg.	0.185	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	37.3	47.9	Inc. frq. avg.	0.186	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

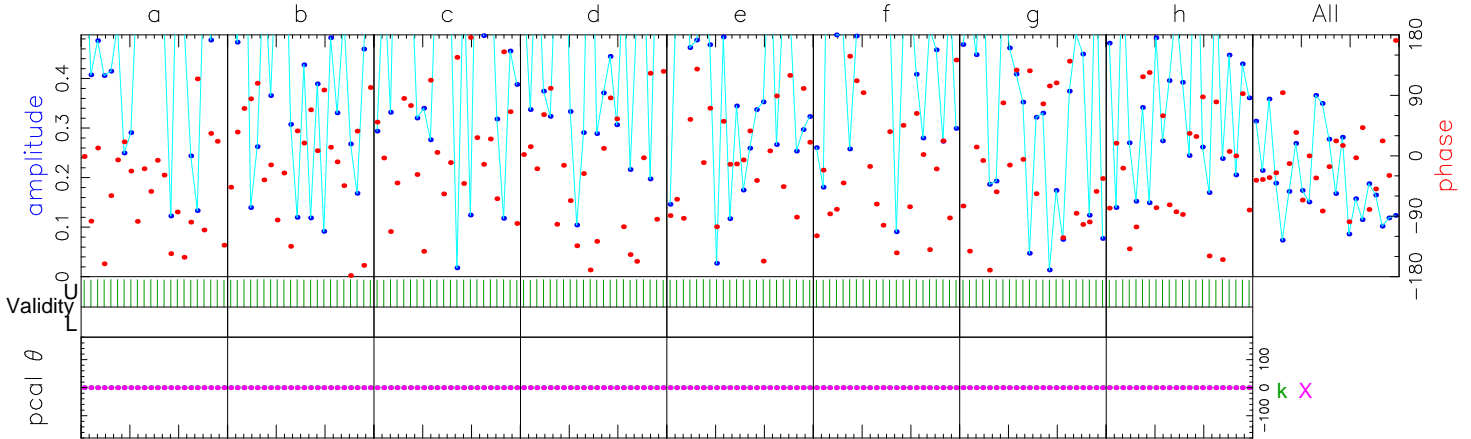
k: az 68.2 el 33.7 pa -71.5 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -10959.030 -2318.498 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/kX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/kX.W.101.18UHRL



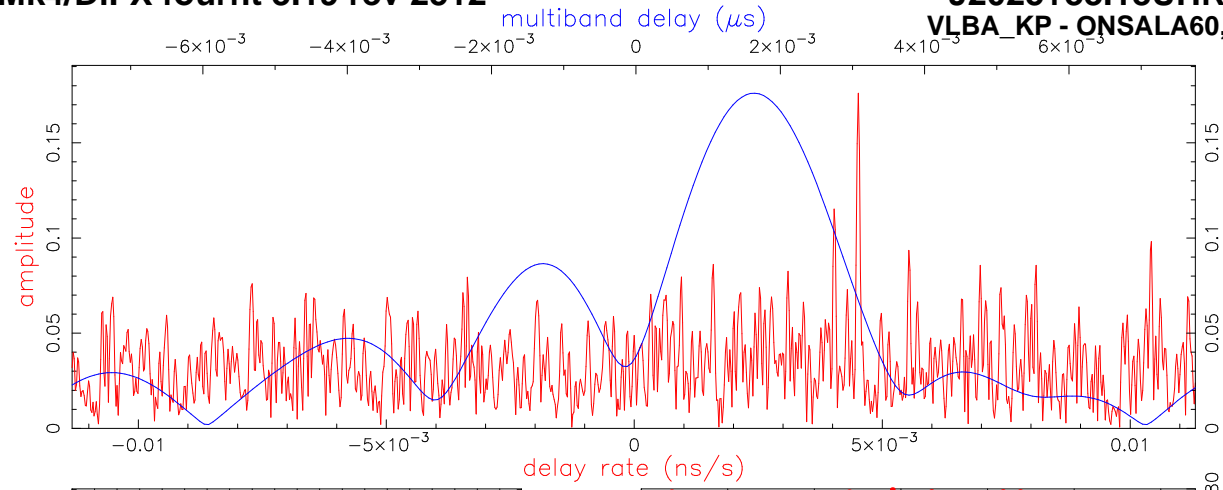
Fringe quality 0
 SNR 5.5
 Int time 178.593
 Amp 0.163
 Phase -24.5
 PFD 9.9e-01
 Delays (us)
 SBD 0.637009
 MBD -0.000657
 Fringe rate (Hz)
 -0.431336
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143657
 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
	-47.6	3.6	-4.8	-44.3	3.3	-52.7	-40.4	-17.5	Phase	-24.5
	0.3	0.2	0.3	0.1	0.1	0.2	0.1	0.1	Ampl.	0.2
	417.8	252.7	222.8	163.6	57.3	121.7	56.3	203.2	Sbd box	420.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.47733944950E+03		Apriori delay (usec)		-3.47797941790E+03		Resid mbdelay (usec)		-6.56596E-04	+/- 2.0E-04
Sband delay (usec)	-3.47734240865E+03		Apriori clock (usec)		-4.1110420E-01		Resid sbdelay (usec)		6.37009E-01	+/- 1.6E-03
Phase delay (usec)	-3.47797941869E+03		Apriori clockrate (us/s)		-5.2260003E-07		Resid phdelay (usec)		-7.89284E-07	+/- 6.7E-07
Delay rate (us/s)	1.58992628621E+00		Apriori rate (us/s)		1.58993129359E+00		Resid rate (us/s)		-5.00738E-06	+/- 6.5E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.37351330525E-06		Resid phase (deg)		-24.5	+/- 20.9

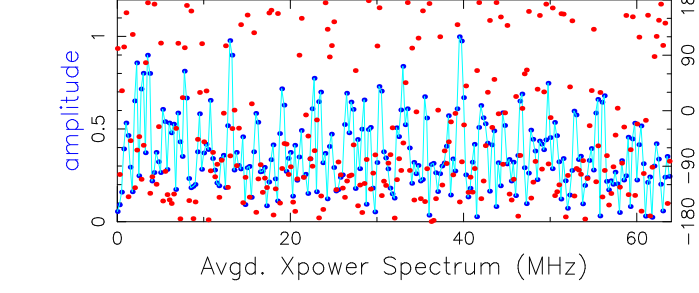
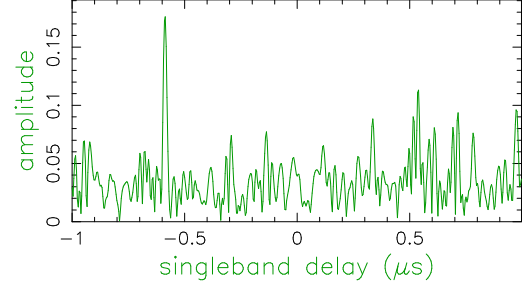
ph/seg (deg) 56.5 49.0 Search (1024X32) 0.146 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 67.9 85.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.7 29.6 Inc. seg. avg. 0.159 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 45.8 51.6 Inc. frq. avg. 0.156 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 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -10959.030 -2318.498 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/kX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/kX.W.114.18UHRL



Fringe quality 0

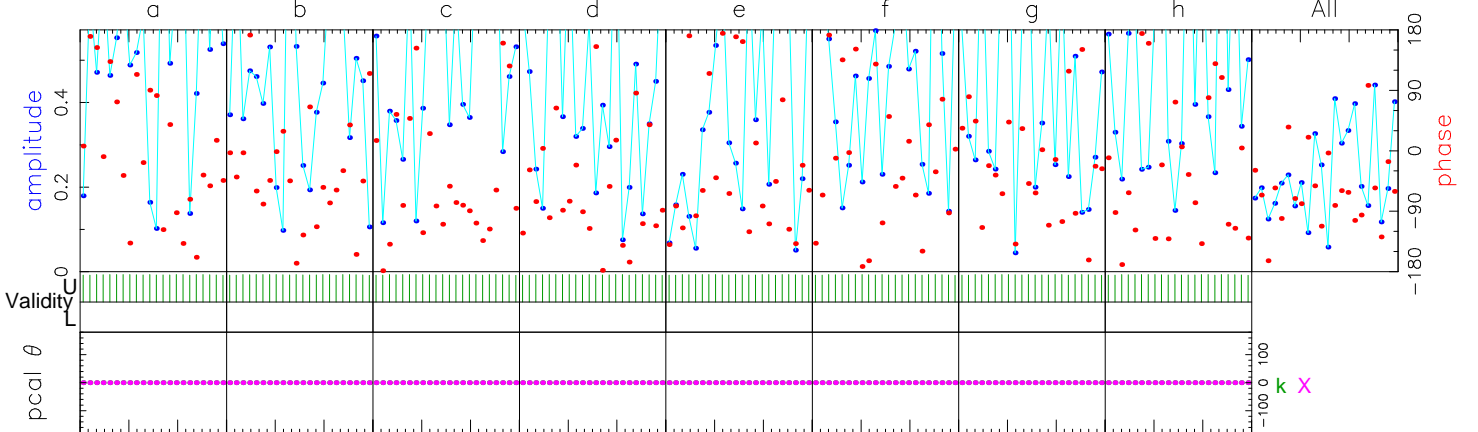
SNR 6.5
 Int time 178.593
 Amp 0.191
 Phase -67.3
 PFD 9.9e-03
 Delays (us)
 SBD -0.587469
 MBD 0.001652
 Fringe rate (Hz) 0.389699
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

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"



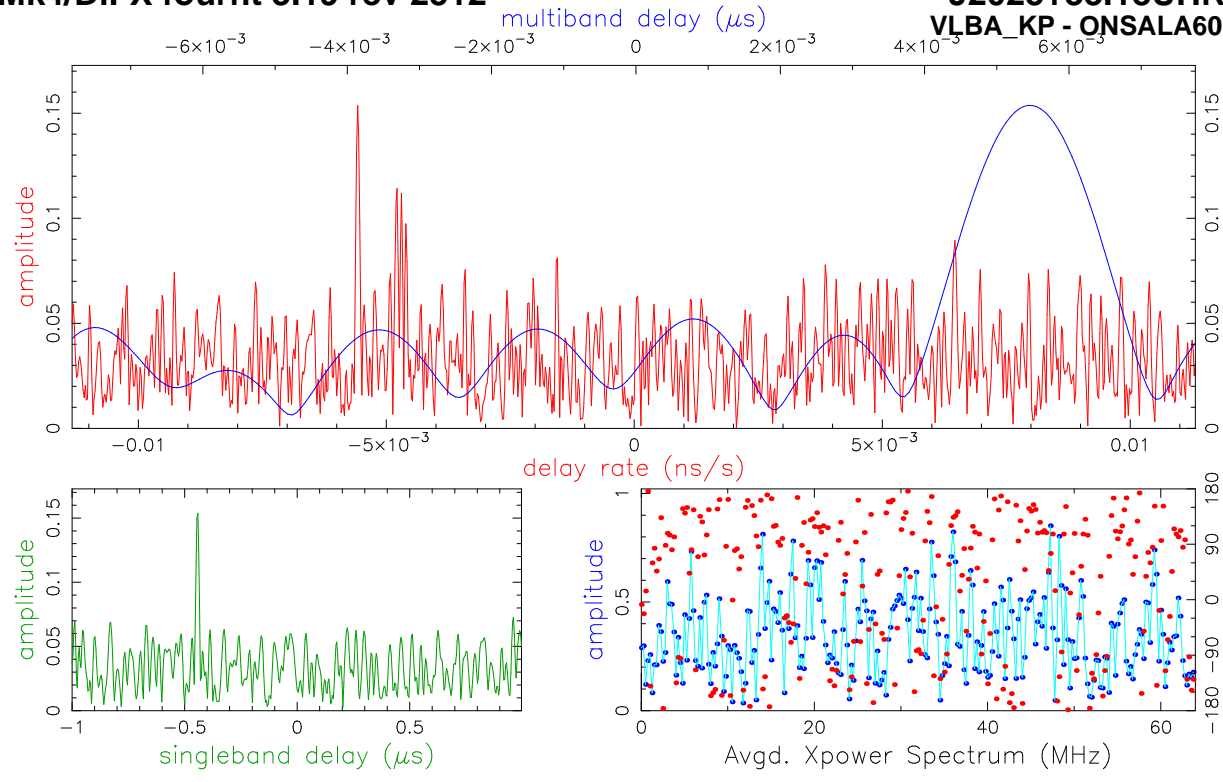
Avgd. Xpower Spectrum (MHz)

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



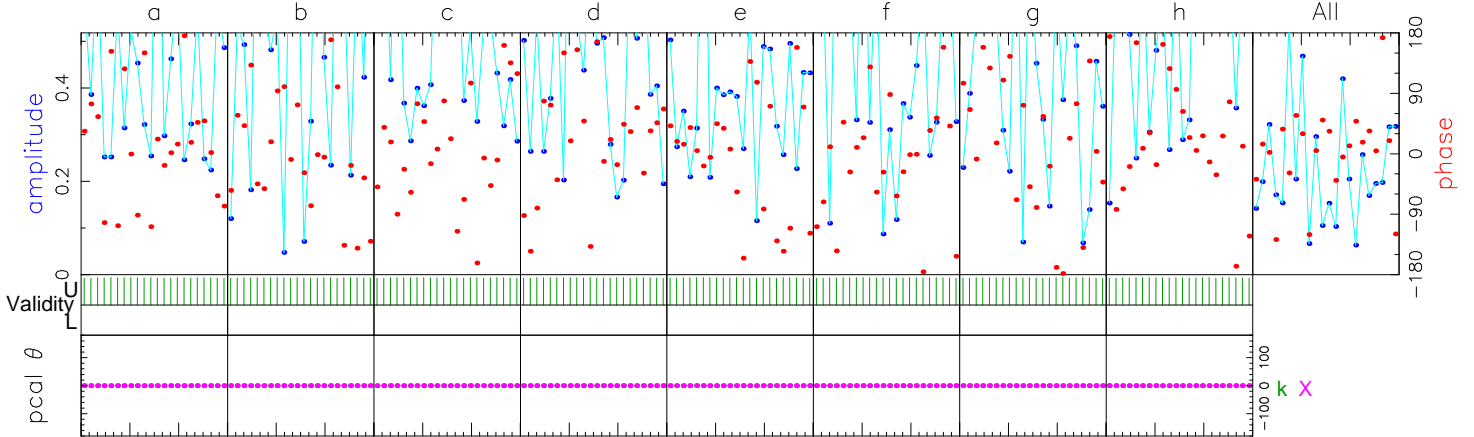
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-61.1	-56.8	-84.3	-70.8	-87.9	-44.1	-39.0	-93.8	Phase	-67.3
	0.1	0.3	0.3	0.2	0.2	0.1	0.2	0.2	Ampl.	0.2
	457.3	107.5	506.4	138.7	195.0	398.0	356.2	278.1	Sbd box	106.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.47857151618E+03		Apriori delay (usec)		-3.47797941790E+03		Resid mbdelay (usec)		1.65172E-03	+/- 1.7E-04
Sband delay (usec)	-3.47856688640E+03		Apriori clock (usec)		-4.1110420E+01		Resid sbdelay (usec)		-5.87469E-01	+/- 1.3E-03
Phase delay (usec)	-3.47797942007E+03		Apriori clockrate (us/s)		-5.2260003E-07		Resid phdelay (usec)		-2.17045E-06	+/- 5.7E-07
Delay rate (us/s)	1.58993581762E+00		Apriori rate (us/s)		1.58993129359E+00		Resid rate (us/s)		4.52402E-06	+/- 5.4E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.37351330525E-06		Resid phase (deg)		-67.3	+/- 17.6

ph/seg (deg) 57.6 41.2 Search (1024X32) 0.169 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 67.9 71.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 22.0 24.9 Inc. seg. avg. 0.199 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 30.4 43.4 Inc. frq. avg. 0.182 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 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -10959.030 -2318.498 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/kX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/kX.W.142.18UHRL

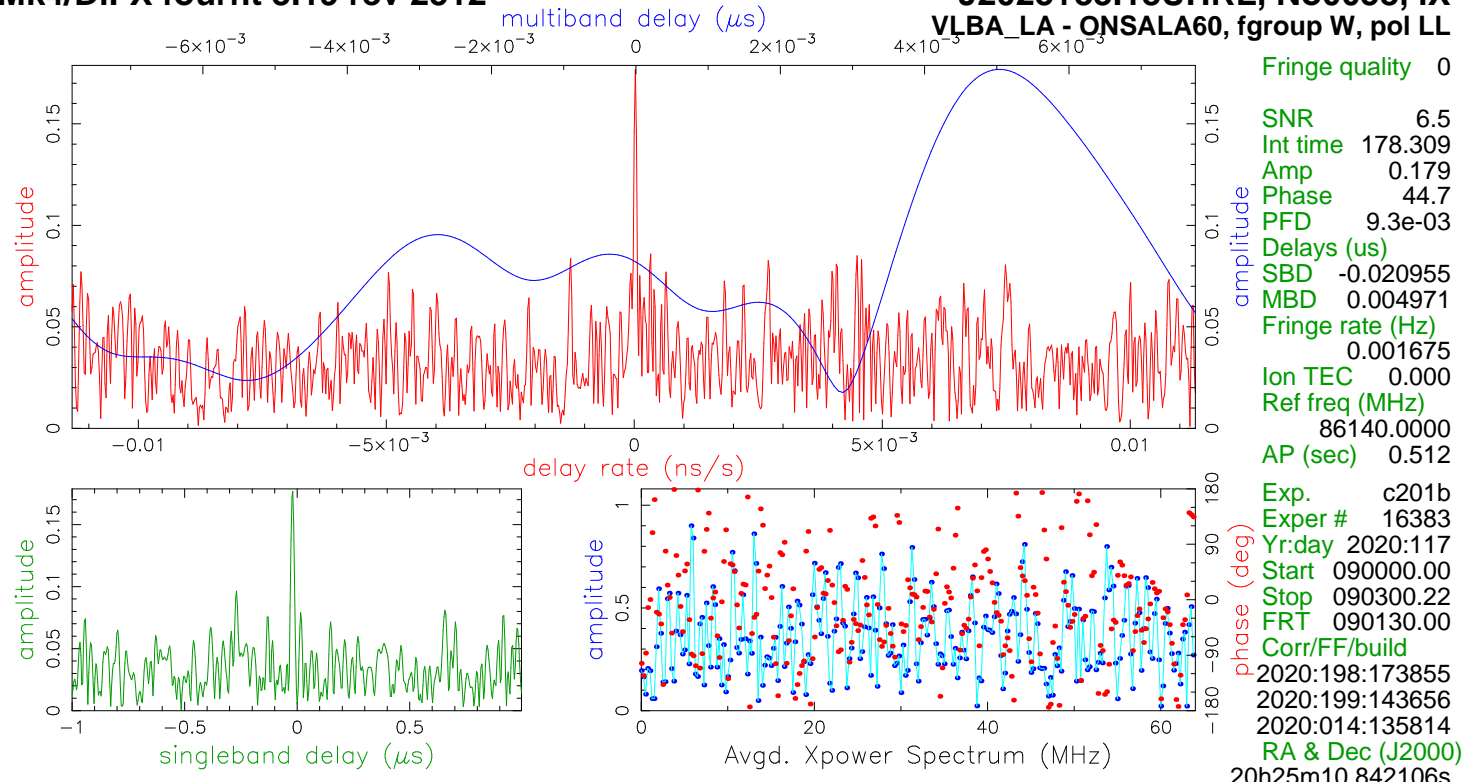


Fringe quality 0
 SNR 5.7
 Int time 178.593
 Amp 0.173
 Phase 4.2
 PFD 7.7e-01
 Delays (us)
 SBD -0.442882
 MBD 0.005426
 Fringe rate (Hz)
 -0.481487
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143652
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

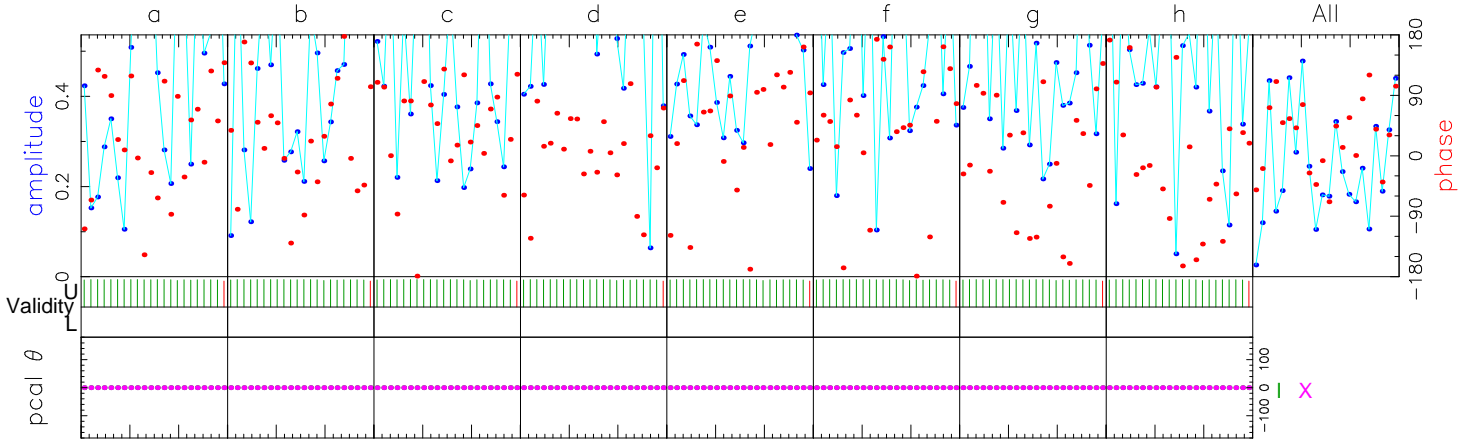
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	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		
X	1000	1000	1000	1000	1000	1000	1000	1000		
k:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:X	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		
X	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-3.47842711738E+03									
Sband delay (usec)	-3.47842229990E+03									
Phase delay (usec)	-3.47797941777E+03									
Delay rate (us/s)	1.58992570400E+00									
Total phase (deg)			-16.8							
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										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
Search (1024X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
0.173 +/- 0.030										
0.151										
0.000										
0.191										
0.154										
5.42552E-03										
-4.42882E-01										
1.36014E-07										
-5.58959E-06										
4.2										
+/- 1.9E-04										
+/- 1.5E-03										
+/- 6.5E-07										
+/- 6.2E-09										
+/- 20.1										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
-1.000										
1.000										
-0.008										
0.008										
-0.011										
0.011										
0.00										
0.00										



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

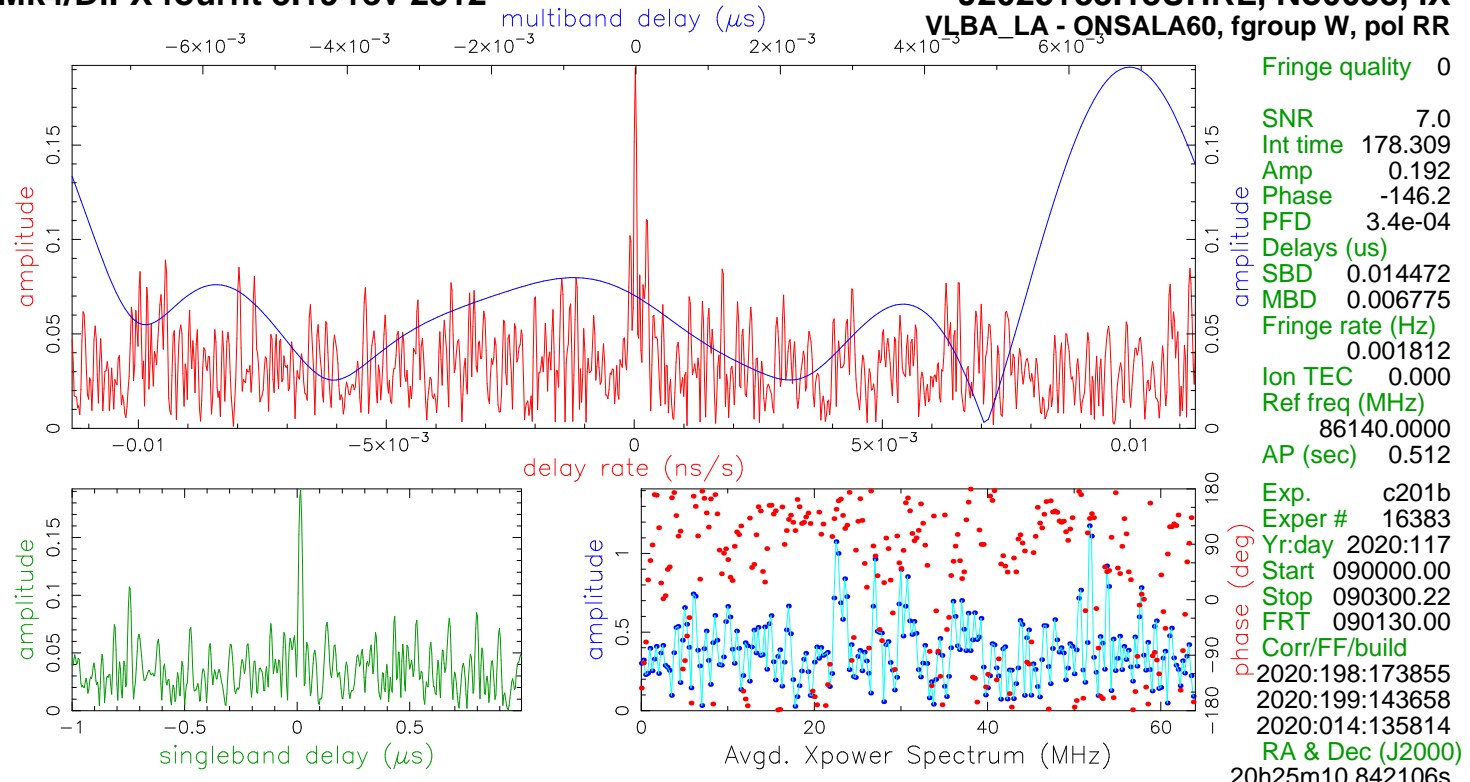


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	44.8	3.8	70.4	10.6	98.8	74.6	47.9	-57.0	Phase	44.7
	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.1	Ampl.	0.2
	260.1	196.1	251.0	251.8	251.1	9.2	139.0	250.1	Sbd box	251.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
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

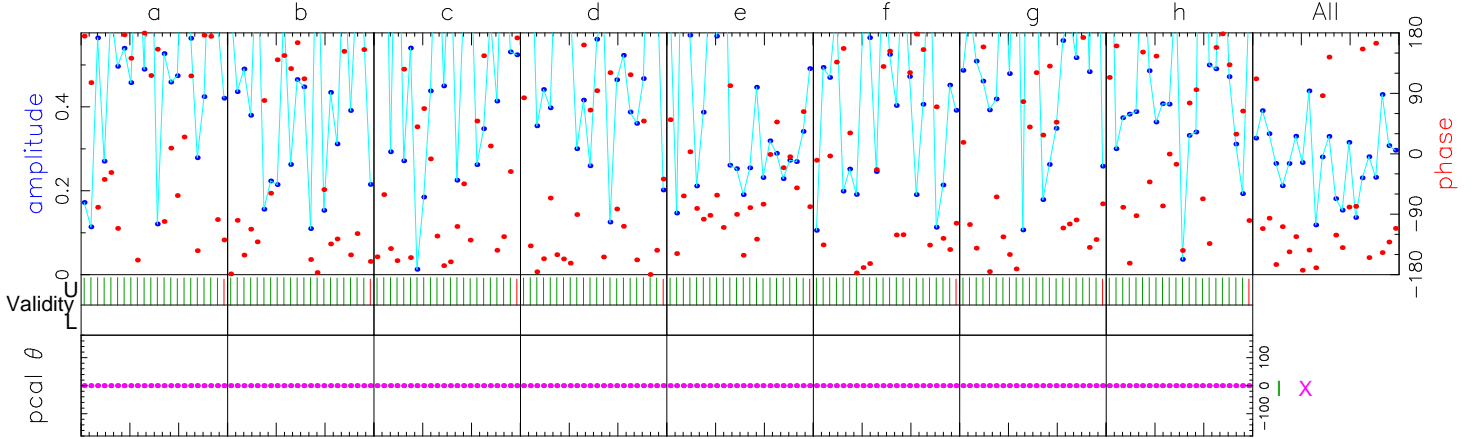
	RMS	Theor.	Amplitude	0.179 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	55.8	41.2	Search (1024X32)	0.175	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/seg (%)	77.7	71.8	Interp.	0.000	Bits/sample: 2x2	Sample 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

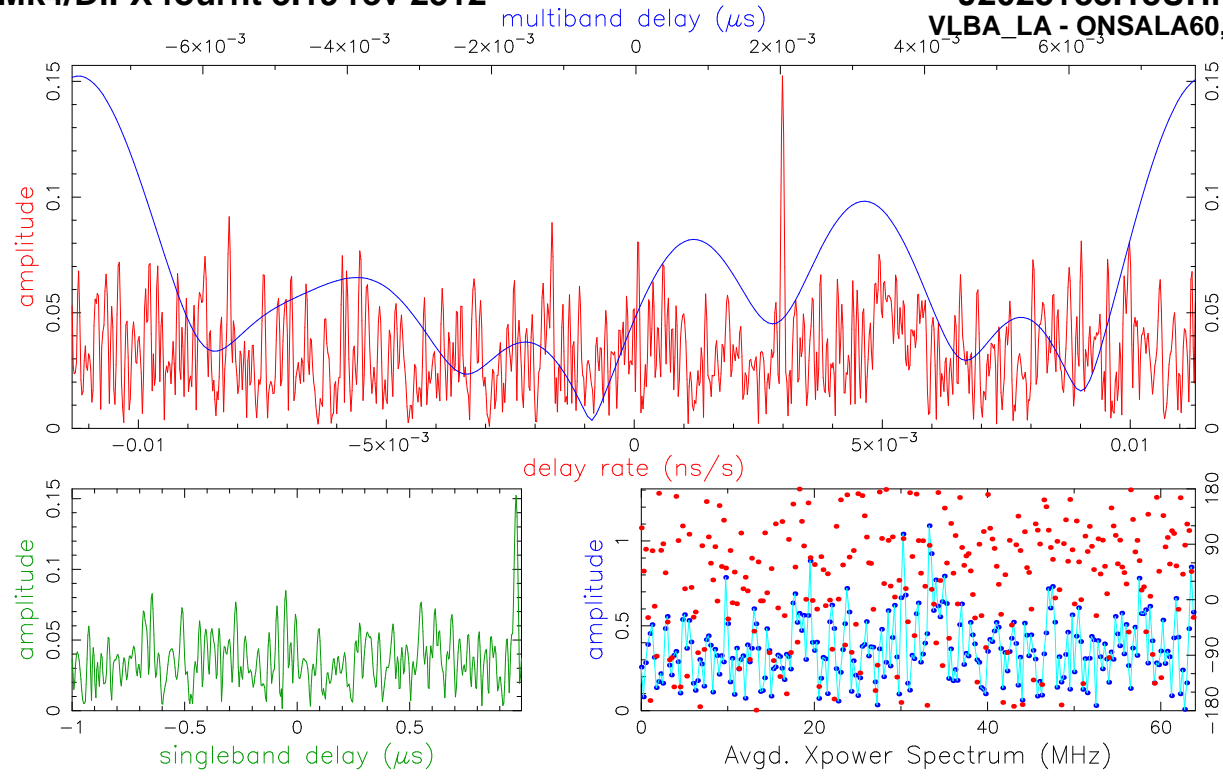


Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	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			

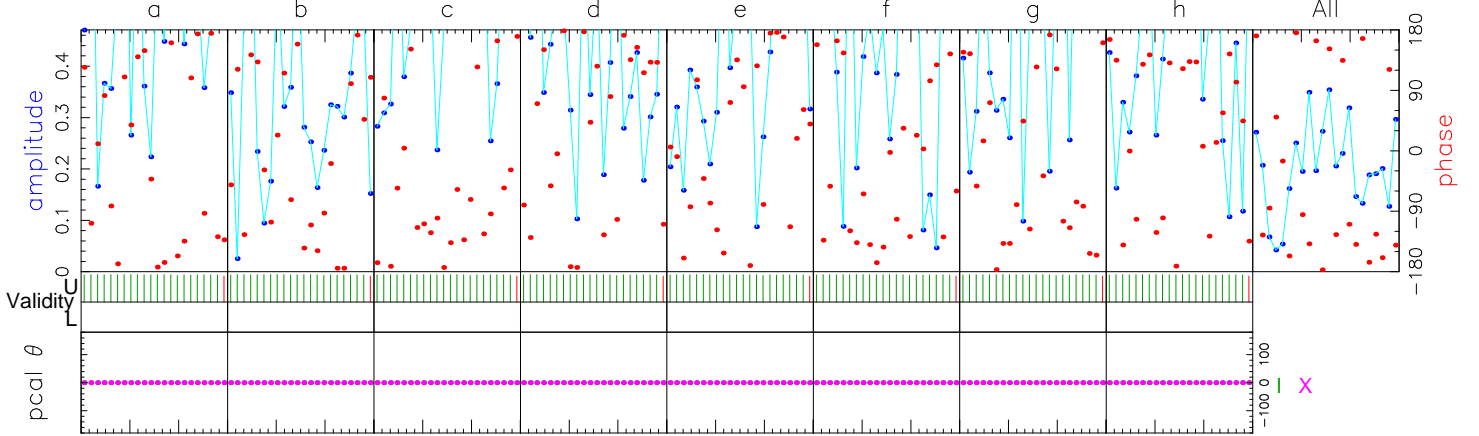


Fringe quality 0

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

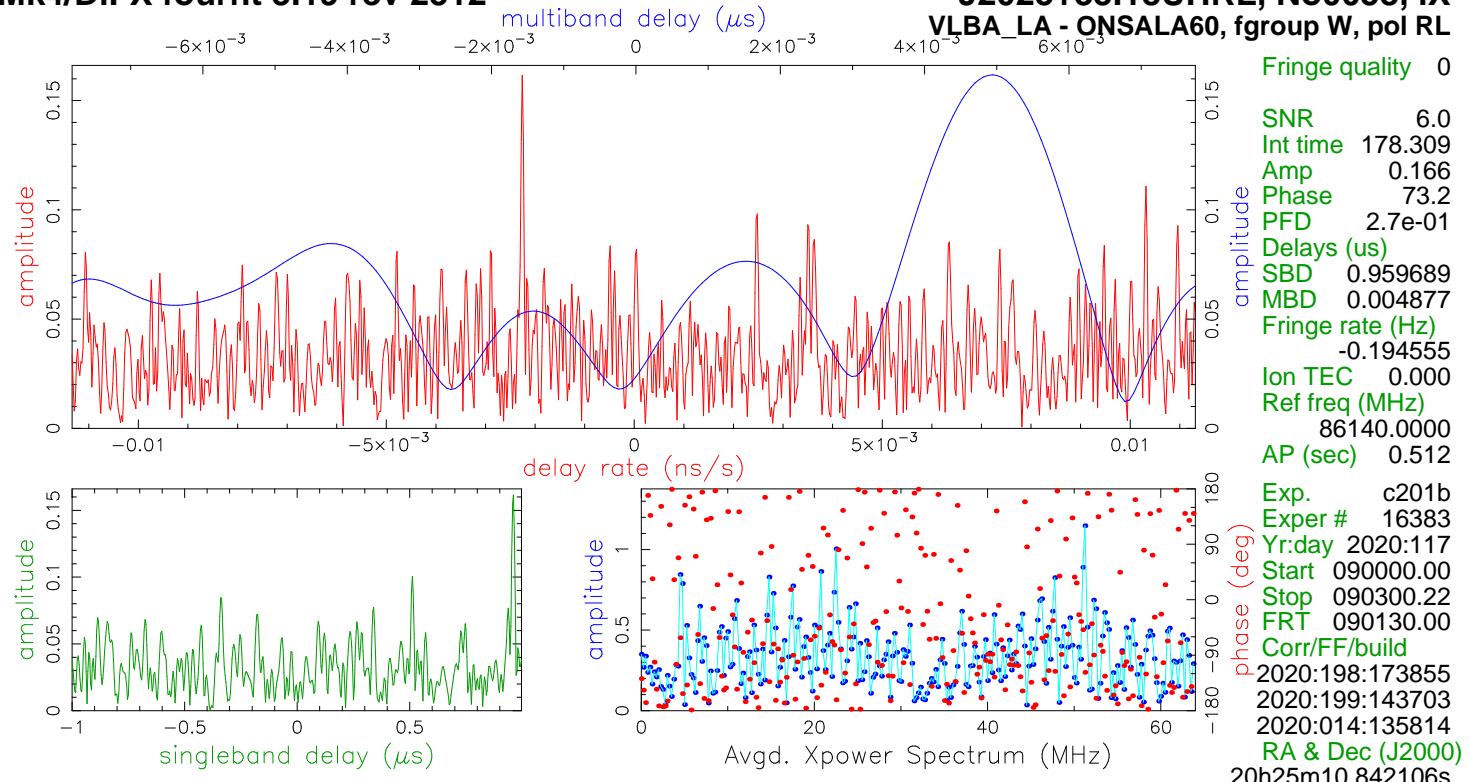
Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143701
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

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

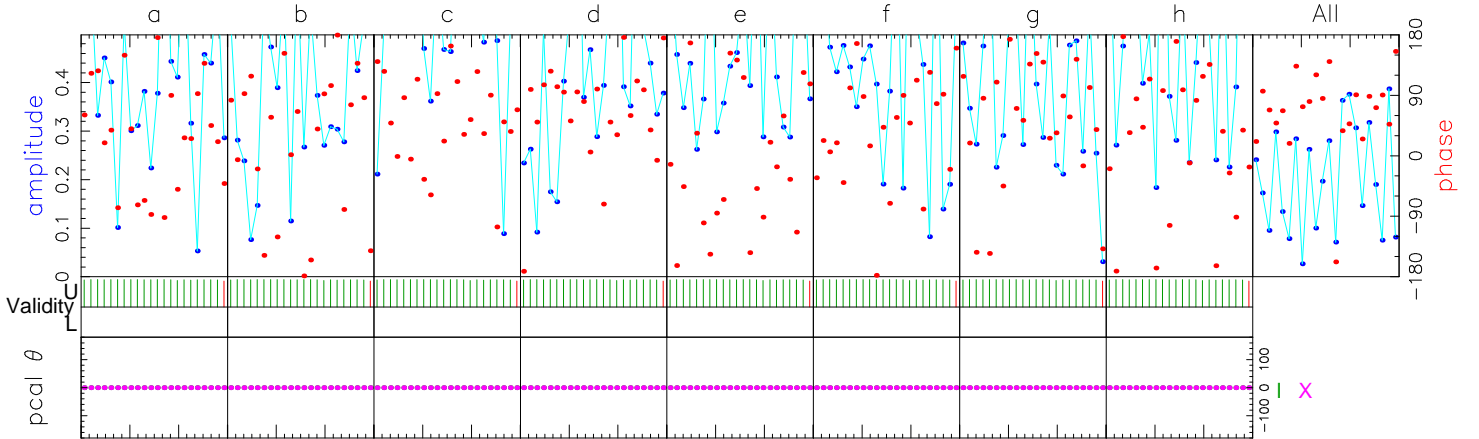


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-178.1	172.2	-116.2	172.5	172.5	-138.1	-123.2	149.1	Phase	-159.8
	0.3	0.1	0.3	0.1	0.1	0.2	0.2	0.2	Ampl.	0.2
	507.0	48.4	470.8	397.7	93.1	462.2	83.8	156.2	Sbd box	505.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.85255957544E+03		Apriori delay (usec)		-1.85353621334E+03		Resid mbdelay (usec)		-7.73709E-03	+/- 1.9E-04
Sband delay (usec)	-1.85256392759E+03		Apriori clock (usec)		-4.4472393E+01		Resid sbdelay (usec)		9.72286E-01	+/- 1.5E-03
Phase delay (usec)	-1.85353621850E+03		Apriori clockrate (us/s)		-6.7900004E-07		Resid phdelay (usec)		-5.15321E-06	+/- 6.6E-07
Delay rate (us/s)	1.50460574146E+00		Apriori rate (us/s)		1.50460273881E+00		Resid rate (us/s)		3.00265E-06	+/- 6.4E-09
Total phase (deg)			Apriori accel (us/s/s)		-6.56002116667E-06		Resid phase (deg)		-159.8	+/- 20.6

ph/seg (deg) 59.6 48.3 Search (1024X32) 0.146 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 65.1 84.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 38.7 29.1 Inc. seg. avg. 0.154 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 52.8 50.8 Inc. frq. avg. 0.168 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 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



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



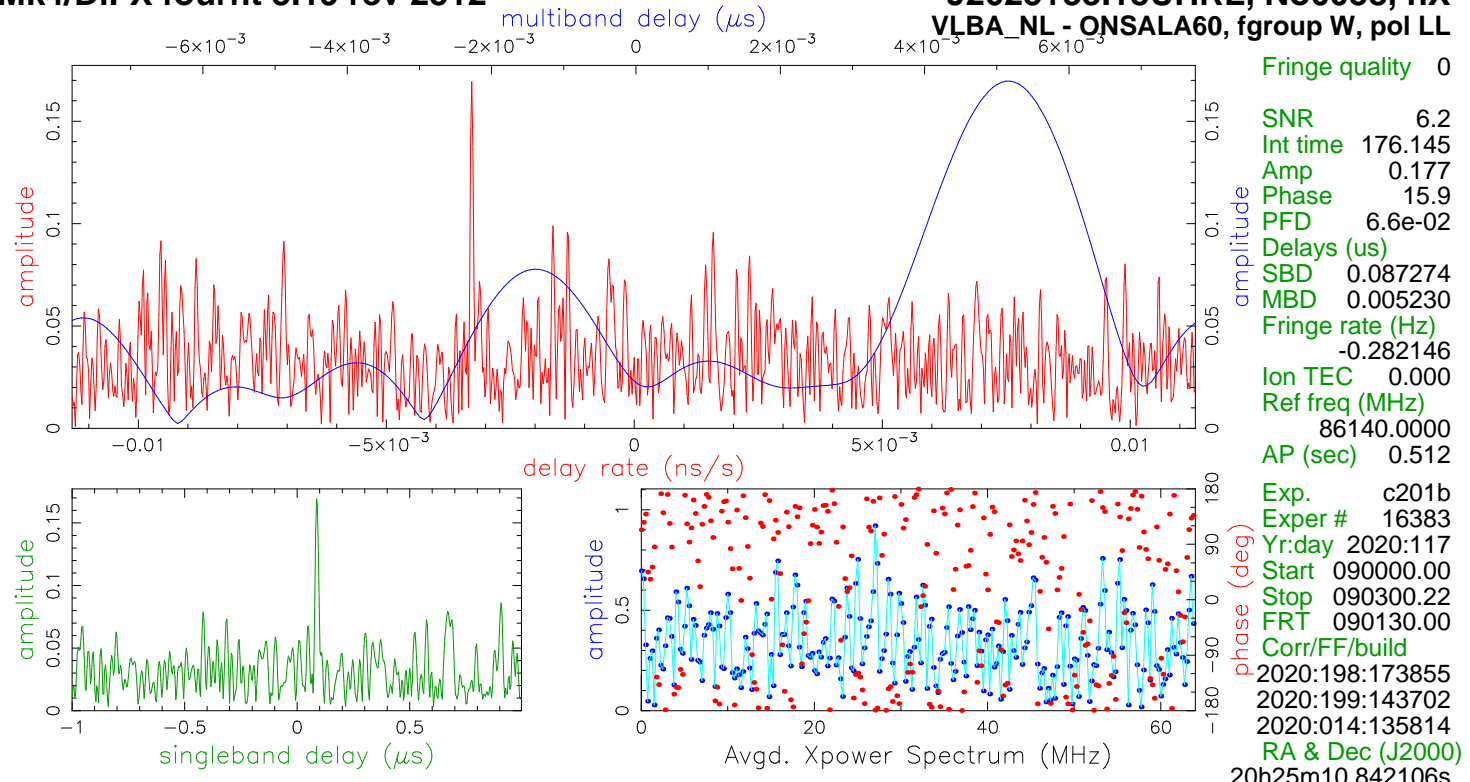
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
I	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:X	0:0	0:0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.85257821141E+03	Apriori delay (usec)	-1.85353621334E+03	Resid mbdelay (usec)	4.87694E-03	+/-	1.8E-04
Sband delay (usec)	-1.85257652409E+03	Apriori clock (usec)	-4.4472393E+01	Resid sbdelay (usec)	9.59689E-01	+/-	1.4E-03
Phase delay (usec)	-1.85353621098E+03	Apriori clockrate (us/s)	-6.7900004E-07	Resid phdelay (usec)	2.36152E-06	+/-	6.2E-07
Delay rate (us/s)	1.50460048022E+00	Apriori rate (us/s)	1.50460273881E+00	Resid rate (us/s)	-2.25859E-06	+/-	6.0E-09
Total phase (deg)		Apriori accel (us/s/s)	-6.56002116667E-06	Resid phase (deg)	73.2	+/-	19.2

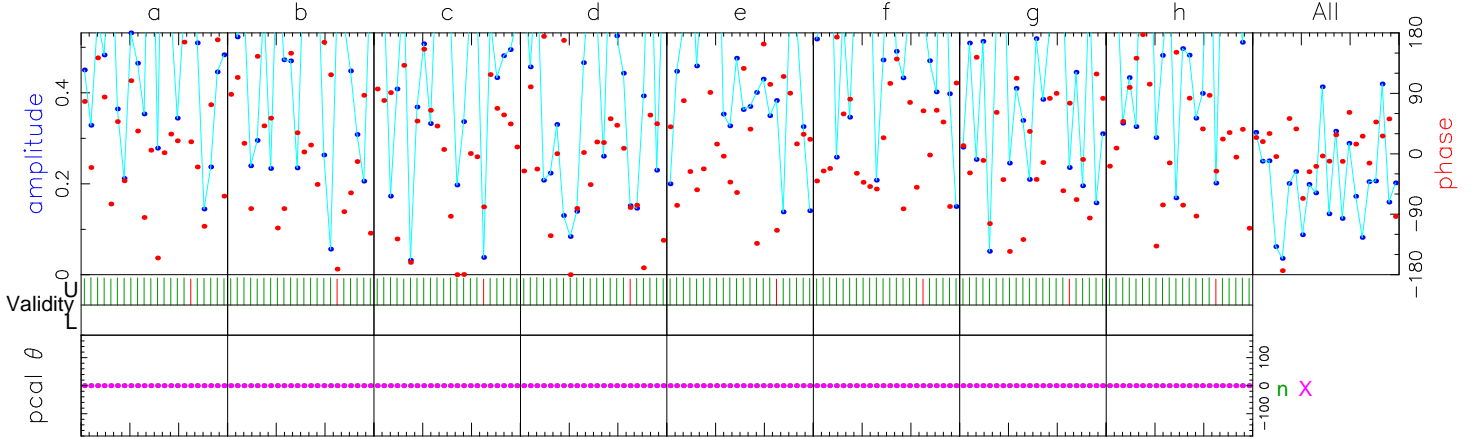
ph/seg (deg)	46.0	Theor.	45.0	Amplitude	0.166 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5			
amp/seg (%)	71.6		78.6	Search (1024X32)	0.157	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000			
ph/frq (deg)	79.3		27.2	Inc. seg. avg.	0.158	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008		
amp/frq (%)	52.7		47.4	Inc. frq. avg.	0.177	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

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



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



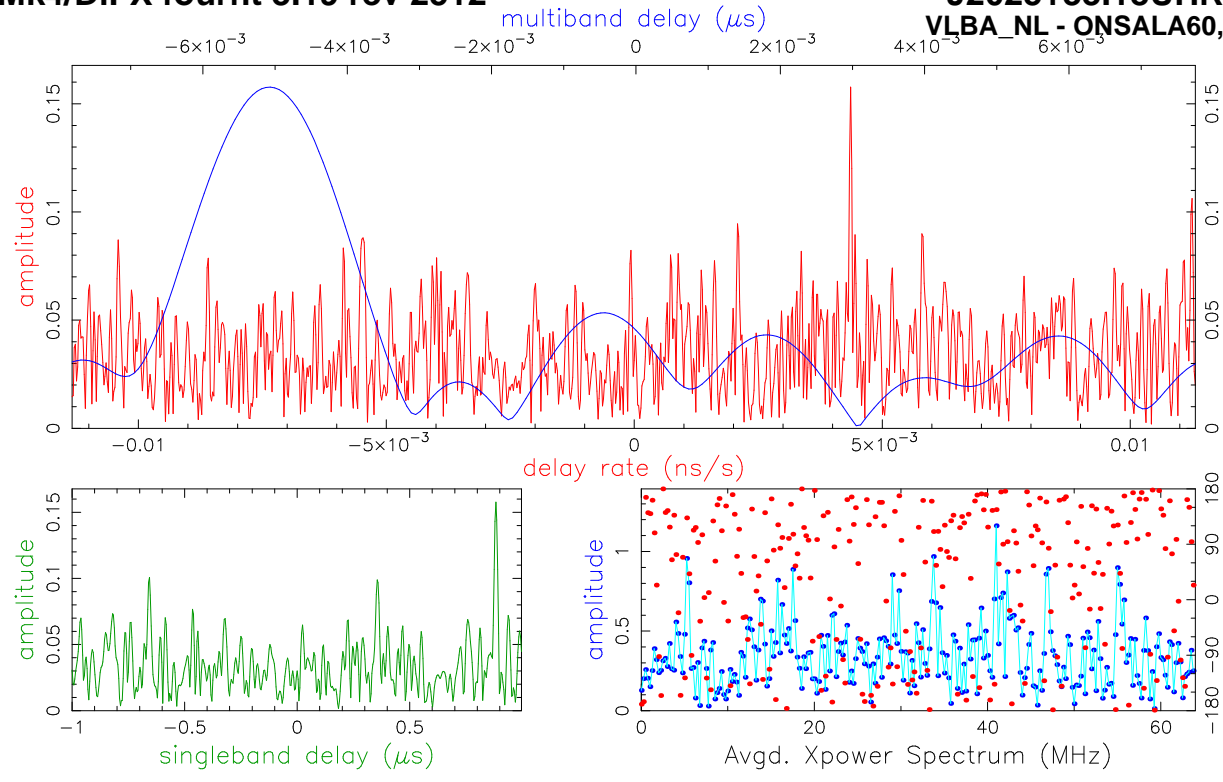
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
18.1	-18.5	59.7	6.6	14.9	3.4	-7.0	27.8		Phase	15.9
0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.2		Ampl.	0.2
148.0	33.3	326.1	290.5	217.7	279.1	425.9	34.1		Sbd box	279.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0		APs used	
n	1000	1000	1000	1000	1000	1000	1000		PC freqs	
X	1000	1000	1000	1000	1000	1000	1000		PC freqs	
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC	
n	1000	1000	1000	1000	1000	1000	1000		PC amp	
X	1000	1000	1000	1000	1000	1000	1000			
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	1.37809892055E+03	Apriori delay (usec)	1.37801556571E+03	Resid mbdelay (usec)	5.22984E-03	+/-	1.7E-04
Sband delay (usec)	1.37810283921E+03	Apriori clock (usec)	-8.4752541E+00	Resid sbdelay (usec)	8.72735E-02	+/-	1.4E-03
Phase delay (usec)	1.37801556622E+03	Apriori clockrate (us/s)	-1.9400004E-07	Resid phdelay (usec)	5.12172E-07	+/-	5.9E-07
Delay rate (us/s)	1.28922918374E+00	Apriori rate (us/s)	1.28923245917E+00	Resid rate (us/s)	-3.27544E-06	+/-	5.7E-09
Total phase (deg)	314.7	Apriori accel (us/s/s)	-1.84467147141E-05	Resid phase (deg)	15.9	+/-	18.4

ph/seg (deg)	RMS 52.1	Theor. 43.2	Amplitude Search (1024X32)	0.177 +/- 0.029	0.168	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	61.4	75.5	Interp.	0.000	0.168	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	25.9	26.1	Inc. seg. avg.	0.166	0.166	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	29.9	45.5	Inc. frq. avg.	0.170	0.170	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

n: az 85.8 el 51.6 pa -63.4 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -8897.669 -2220.112 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/nX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/nX.W.144.18UHRL

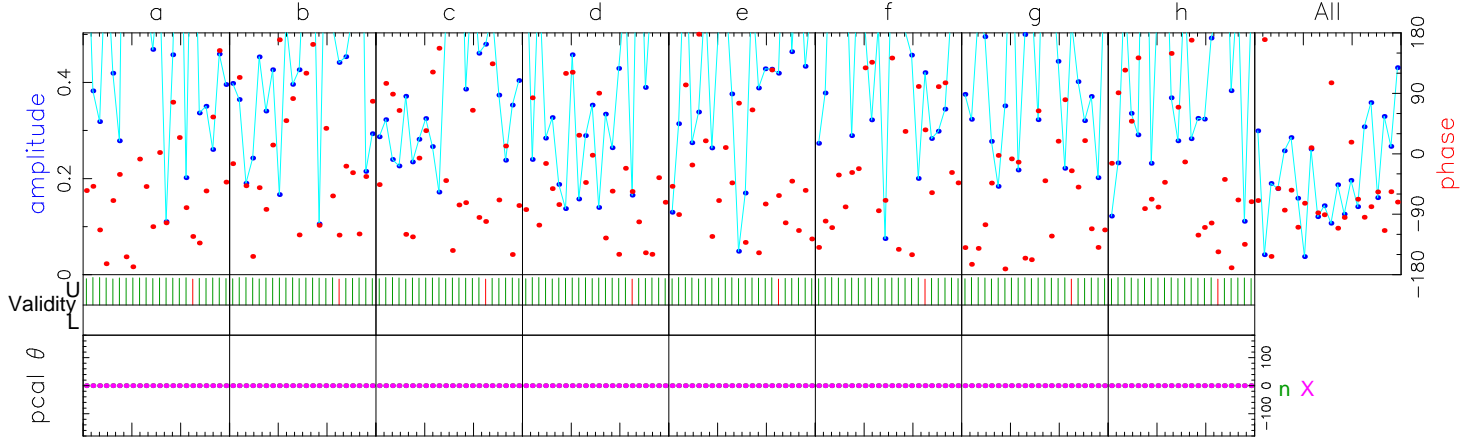


Fringe quality 0

SNR 5.7
 Int time 176.145
 Amp 0.168
 Phase -76.1
 PFD 7.2e-01
 Delays (us)
 SBD 0.882906
 MBD -0.005074
 Fringe rate (Hz)
 0.375546
 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
 2020:199:143708
 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



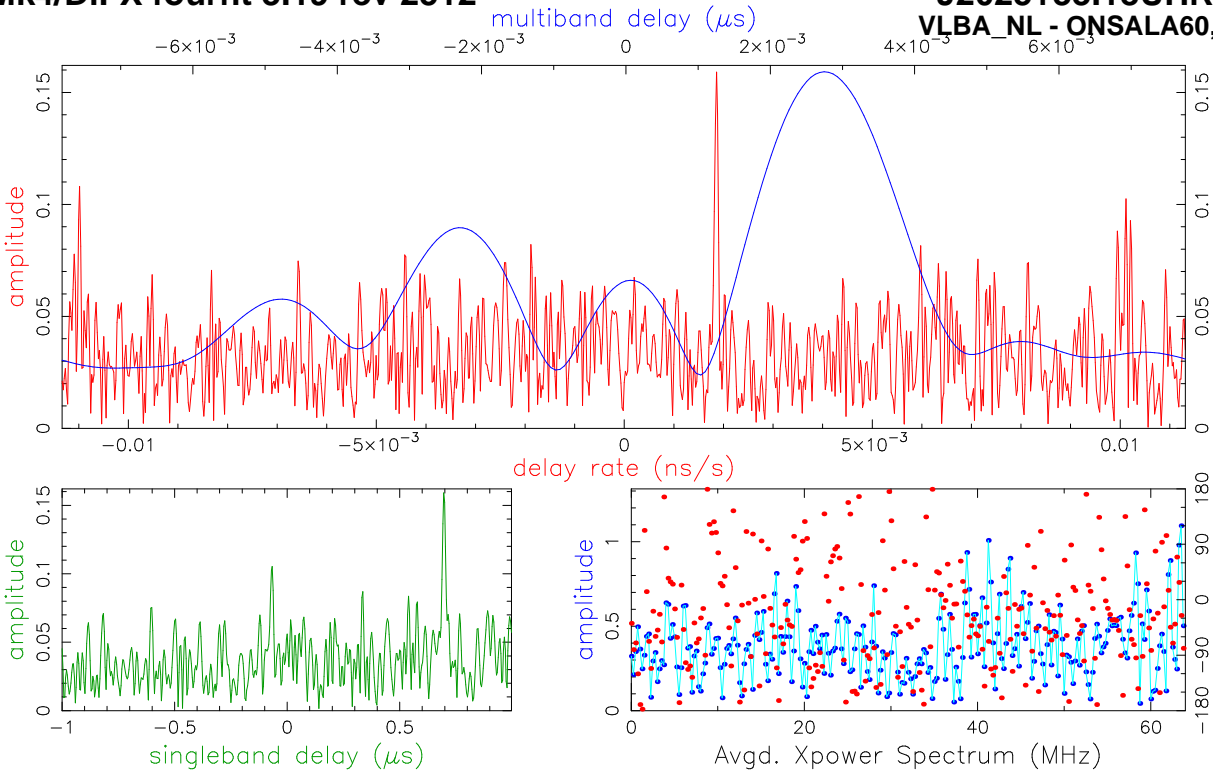
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-84.8	-49.8	-84.3	-73.9	-72.6	-60.8	-85.6	-80.9	Phase	-76.1
	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	Ampl.	0.2
	106.0	37.8	86.5	394.2	50.5	34.5	325.7	400.0	Sbd box	483.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.37890111693E+03		Apriori delay (usec)		1.37801556571E+03		Resid mbdelay (usec)		-5.07378E-03	+/- 1.9E-04
Sband delay (usec)	1.37889847171E+03		Apriori clock (usec)		-8.4752541E+00		Resid sbdelay (usec)		8.82906E-01	+/- 1.5E-03
Phase delay (usec)	1.37801556325E+03		Apriori clockrate (us/s)		-1.9400004E-07		Resid phdelay (usec)		-2.45473E-06	+/- 6.5E-07
Delay rate (us/s)	1.28923681889E+00		Apriori rate (us/s)		1.28923245917E+00		Resid rate (us/s)		4.35972E-06	+/- 6.2E-09
Total phase (deg)	222.7		Apriori accel (us/s/s)		-1.84467147141E-05		Resid phase (deg)		-76.1	+/- 20.0

ph/seg (deg) 58.1 46.9 Search (1024X32) 0.155 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 70.3 81.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 14.1 28.3 Inc. seg. avg. 0.165 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 31.6 49.4 Inc. frq. avg. 0.152 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 85.8 el 51.6 pa -63.4 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -8897.669 -2220.112 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/nX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/nX.W.178.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, nX

VLBA_NL - ONSALA60, fgroup W, pol LR

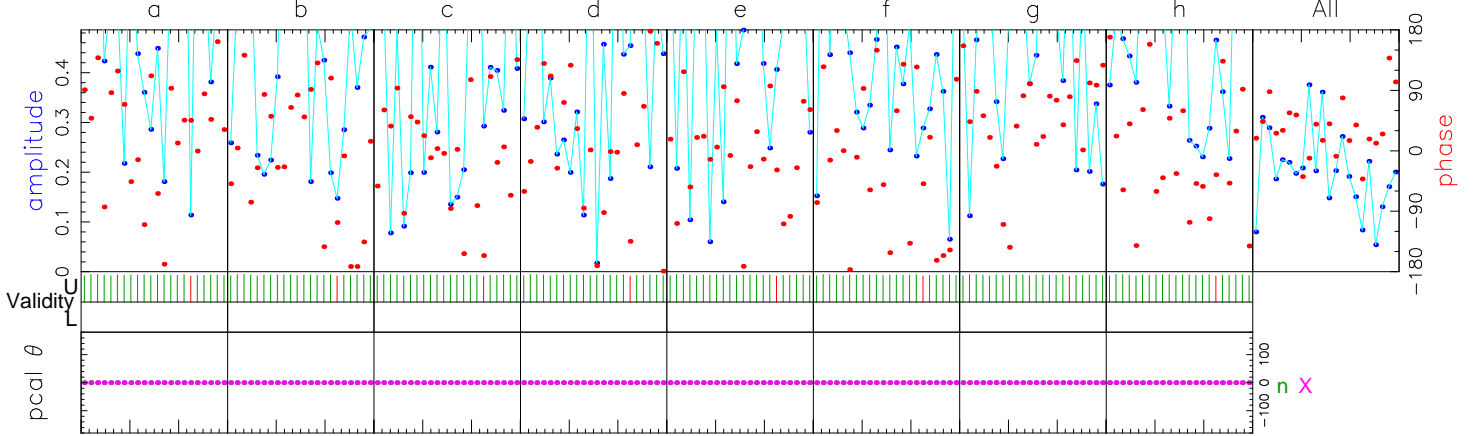


Fringe quality 0

SNR 5.8
 Int time 176.145
 Amp 0.162
 Phase 34.2
 PFD 5.3e-01
 Delays (us)
 SBD 0.696395
 MBD 0.002793
 Fringe rate (Hz)
 0.159914
 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
 2020:199:143710
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

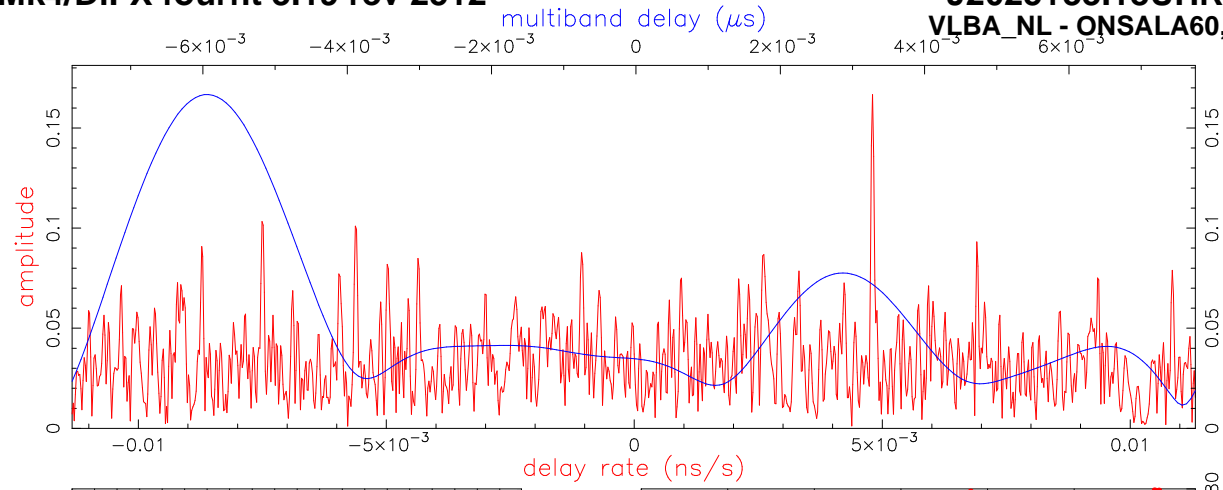
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		1.37870585907E+03				1.37801556571E+03			2.79336E-03	+/- 1.9E-04
Sband delay (usec)		1.37871196021E+03				-8.4752541E+00			6.96395E-01	+/- 1.5E-03
Phase delay (usec)		1.37801556681E+03				-1.9400004E-07			1.10198E-06	+/- 6.4E-07
Delay rate (us/s)		1.28923431561E+00				1.28923245917E+00			1.85644E-06	+/- 6.1E-09
Total phase (deg)			333.0						34.2	+/- 19.7
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)										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
Search (1024X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
Sample rate (MSamp/s): 128										
Data rate (Mb/s): 2048										
nlags: 256										
t_cohere infinite										
nLags: 256										
simultaneous interpolator										

n: az 85.8 el 51.6 pa -63.4 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -897.669 -2220.112

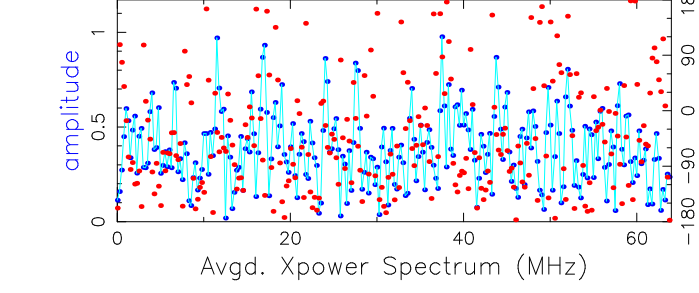
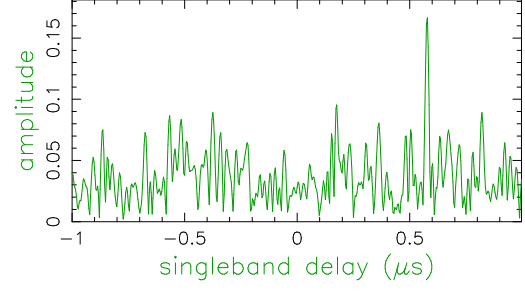
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/nX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/nX.W.189.18UHRL



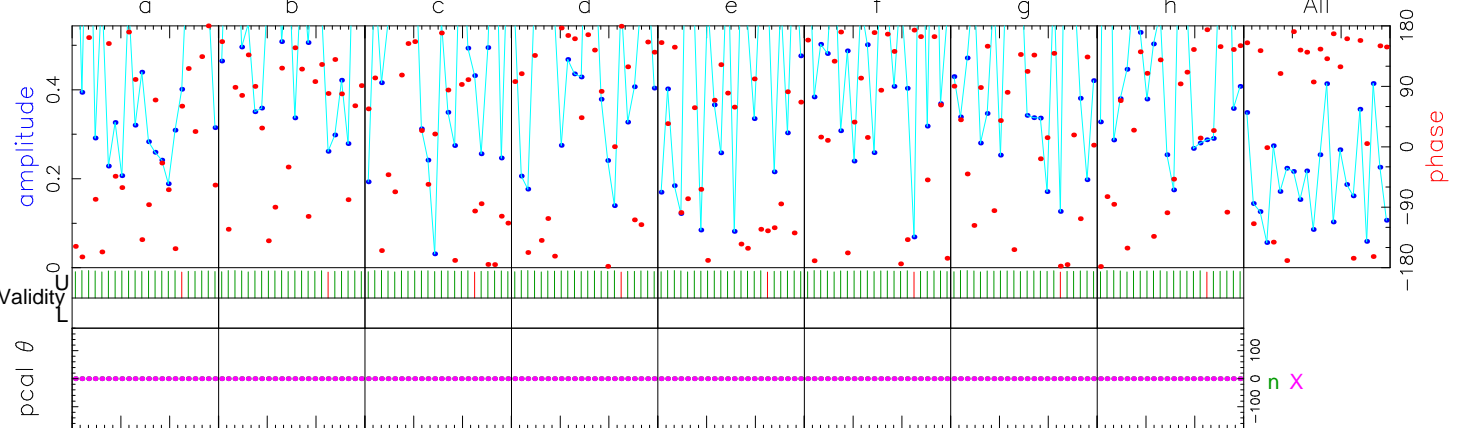
Fringe quality 0

SNR 6.1
 Int time 176.145
 Amp 0.181
 Phase 159.0
 PFD 1.3e-01
 Delays (us)
 SBD 0.576901
 MBD -0.005970
 Fringe rate (Hz)
 0.413767
 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
 2020:199:143712
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

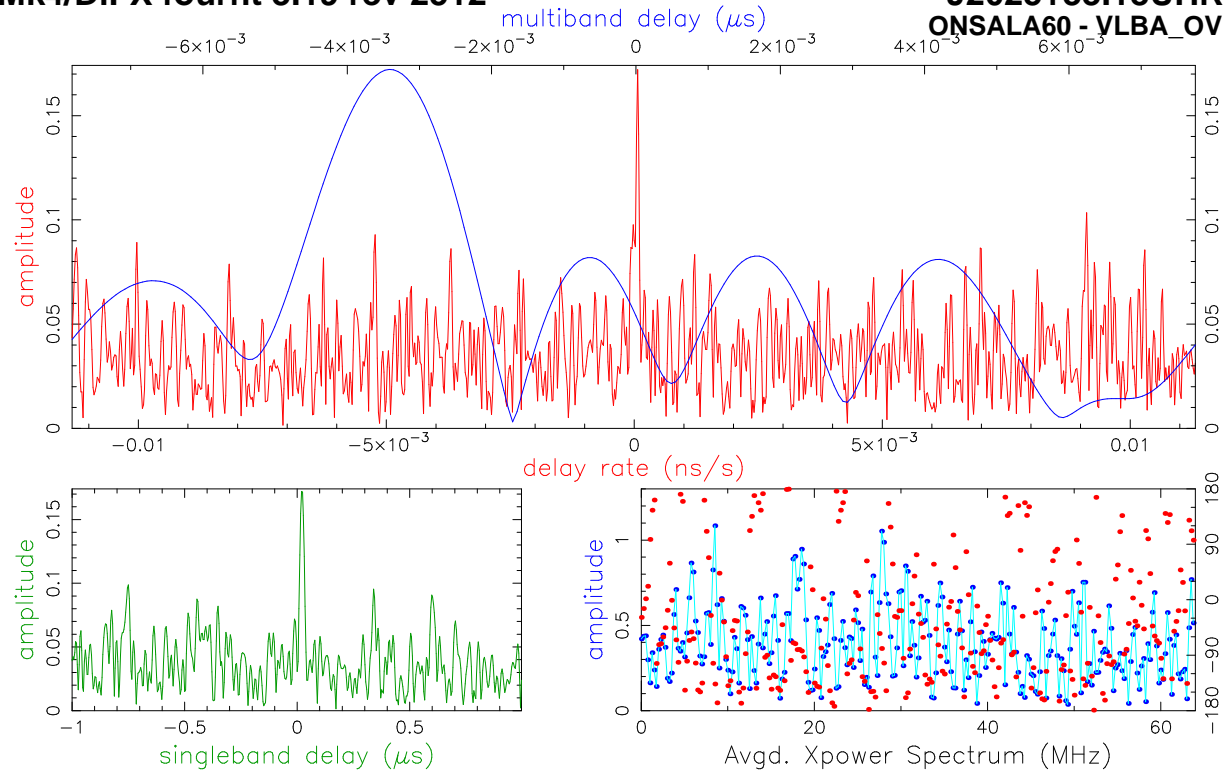


Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	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			
n	1000	1000	1000	1000	1000	1000	1000	1000			
X	1000	1000	1000	1000	1000	1000	1000	1000			
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
n	1000	1000	1000	1000	1000	1000	1000	1000			
X	1000	1000	1000	1000	1000	1000	1000	1000			
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
Group delay (usec)(sbd)		1.37858772086E+03			1.37801556571E+03				Resid mbdelay (usec)	-5.96985E-03	+/- 1.8E-04
Sband delay (usec)		1.37859246721E+03			-8.4752541E+00				Resid sbdelay (usec)	5.76901E-01	+/- 1.4E-03
Phase delay (usec)		1.37801557084E+03			-1.9400004E-07				Resid phdelay (usec)	5.12701E-06	+/- 6.1E-07
Delay rate (us/s)		1.28923726259E+00			1.28923245917E+00				Resid rate (us/s)	4.80342E-06	+/- 5.8E-09
Total phase (deg)			97.8		-1.84467147141E-05				Resid phase (deg)	159.0	+/- 18.8

ph/seg (deg) 58.2 44.0 Search (1024X32) 0.165 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 65.8 76.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 30.2 26.6 Inc. seg. avg. 0.173 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 42.8 46.3 Inc. frq. avg. 0.177 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 85.8 el 51.6 pa -63.4 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) -8897.669 -2220.112 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/nX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/nX.W.200.18UHRL simultaneous interpolator

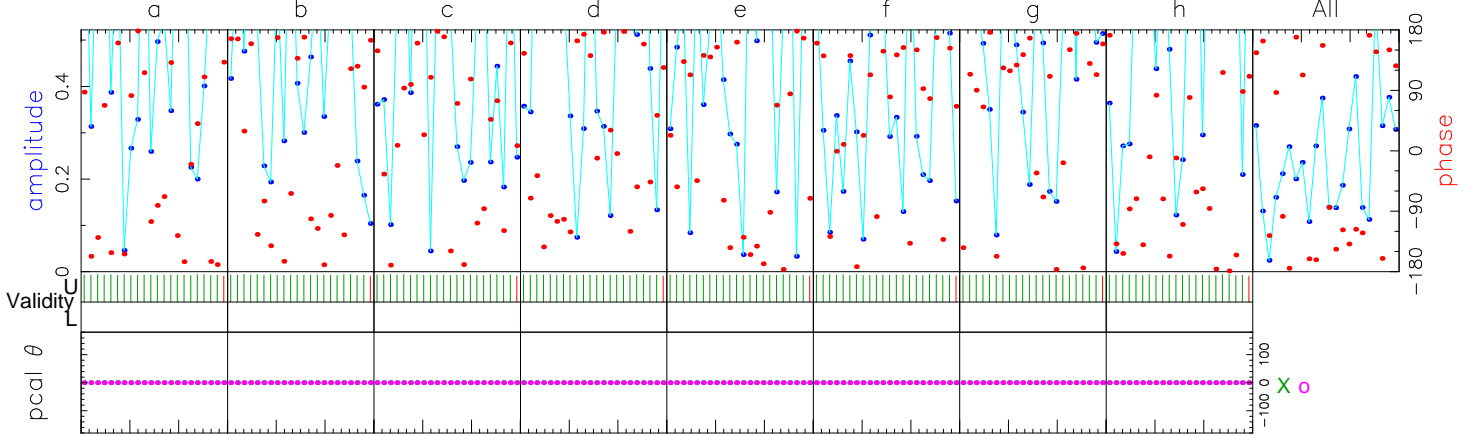


Fringe quality 0

SNR 6.3
Int time 177.040
Amp 0.174
Phase -179.9
PFD 3.2e-02
Delays (us)
SBD 0.021378
MBD -0.003375
Fringe rate (Hz) 0.005318
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
2020:199:143704
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		
X	1000	1000	1000	1000	1000	1000	1000	1000		
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	166.2	-149.5	141.9	-131.3	-167.1	165.2	142.8	-130.1		
Sband delay (usec)	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2		
Phase delay (usec)	329.4	195.8	463.7	435.8	397.5	108.4	262.7	344.8		
Delay rate (us/s)		-1.56602848560E+00								
Total phase (deg)			105.6							
Apriori delay (usec)					4.46409204543E+03					
Apriori clock (usec)					2.0675940E-01					
Apriori clockrate (us/s)					3.2700001E-07					
Apriori rate (us/s)					-1.56602854733E+00					
Apriori accel (us/s/s)					-8.72493573249E-06					
Resid mbdelay (usec)									-3.37494E-03	+/- 1.7E-04
Resid sbdelay (usec)									2.13777E-02	+/- 1.4E-03
Resid phdelay (usec)									-5.80086E-06	+/- 5.8E-07
Resid rate (us/s)									6.17310E-08	+/- 5.6E-09
Resid phase (deg)									-179.9	+/- 18.1

ph/seg (deg) 49.6 42.4
amp/seg (%) 83.0 74.0
ph/frq (deg) 39.1 25.6
amp/frq (%) 35.0 44.6

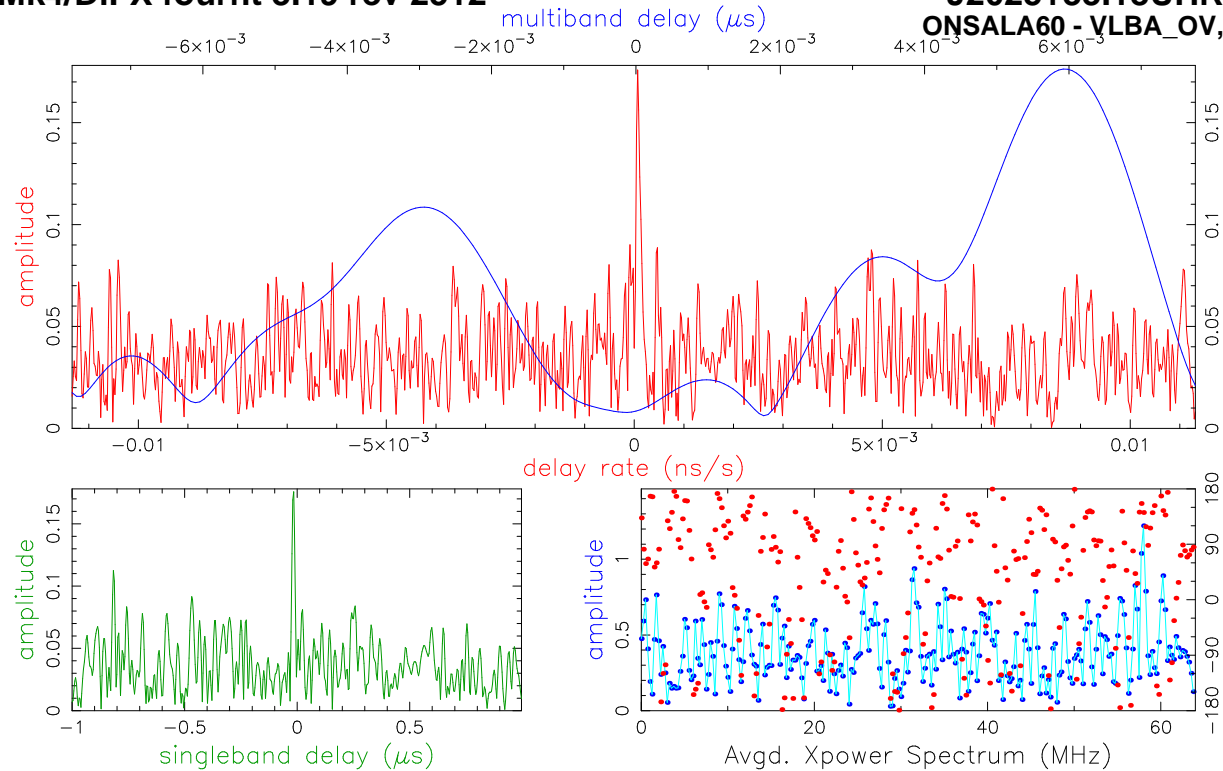
RMS Theor. Amplitude 0.174 +/- 0.027
Search (1024X32) 0.171
Interp. 0.000
Inc. seg. avg. 0.191
Inc. frq. avg. 0.185

PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
PCal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MISamp/s): 128
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite

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

X: az 261.7 el 46.4 pa 39.8 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 10786.107 1231.705 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/Xo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/Xo.W.158.18UHRL

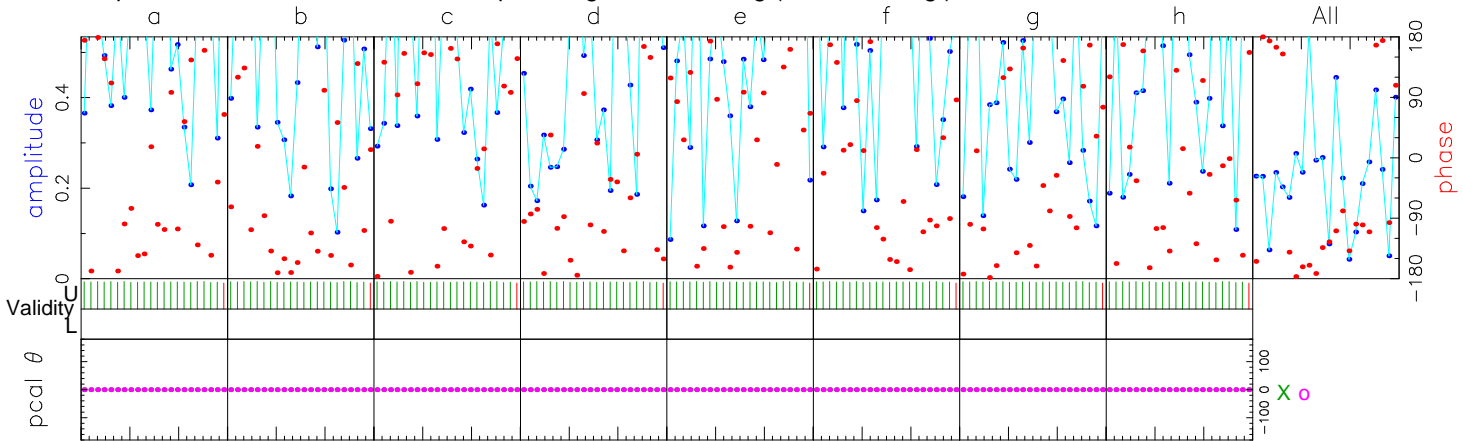


Fringe quality 0

SNR 6.5
Int time 177.040
Amp 0.178
Phase -158.6
PFD 1.3e-02
Delays (us)
SBD -0.016931
MBD 0.005859
Fringe rate (Hz) 0.005171
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

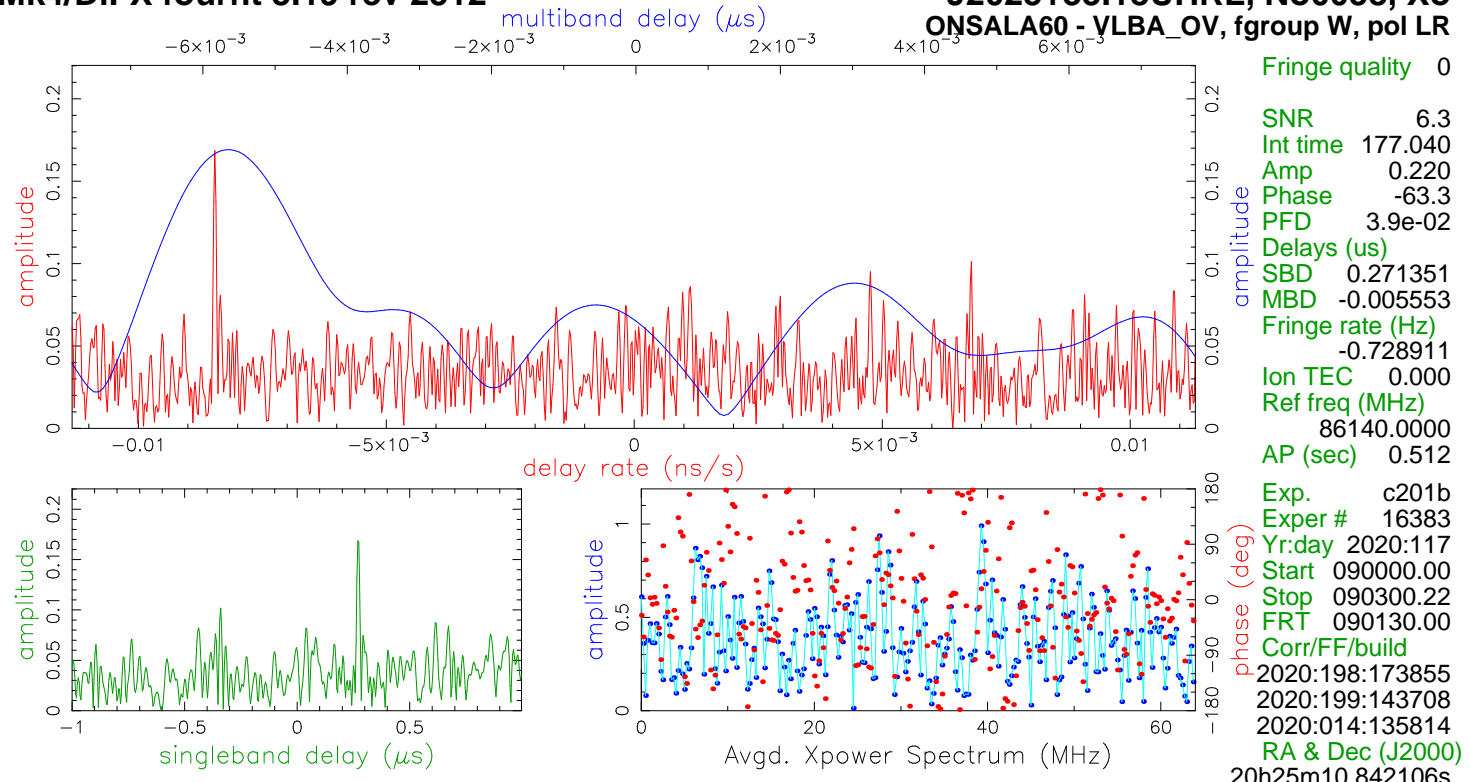


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-152.7	-132.3	166.0	-132.7	135.4	-139.8	-140.1	-137.6	Phase	-158.6
	0.3	0.2	0.4	0.2	0.1	0.1	0.1	0.1	Ampl.	0.2
	138.7	422.5	252.5	63.4	246.9	324.5	162.9	283.1	Sbd box	252.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

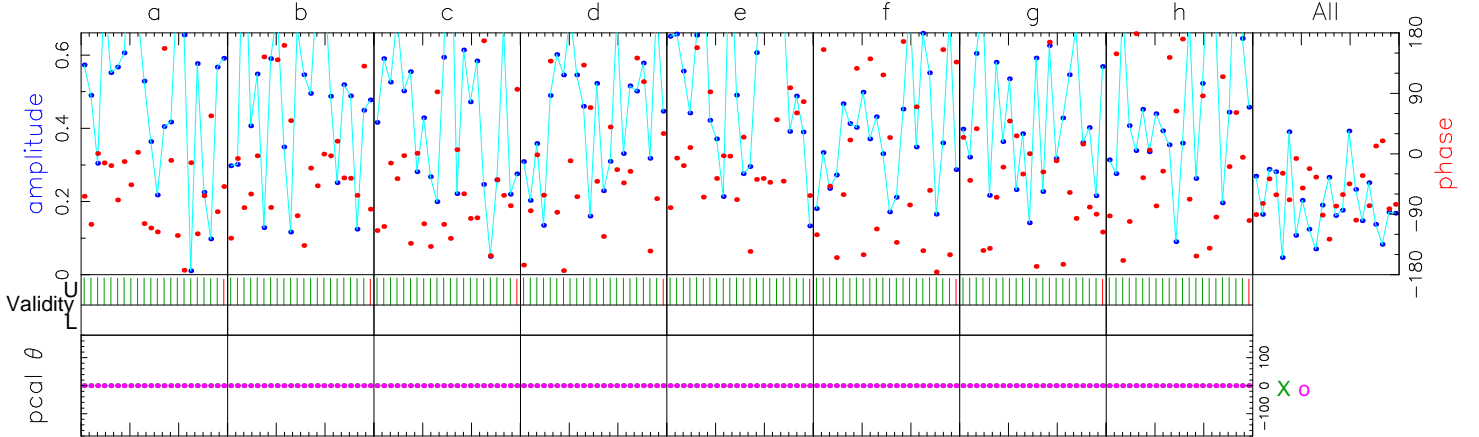
Group delay (usec)(sbd) 4.46408227986E+03 Apriori delay (usec) 4.46409204543E+03 Resid mbdelay (usec) 5.85943E-03 +/- 1.7E-04
 Sband delay (usec) 4.46407511493E+03 Apriori clock (usec) 2.0675940E+01 Resid sbdelay (usec) -1.69305E-02 +/- 1.3E-03
 Phase delay (usec) 4.46409204031E+03 Apriori clockrate (us/s) 3.2700001E-07 Resid phdelay (usec) -5.11525E-06 +/- 5.7E-07
 Delay rate (us/s) -1.56602848731E+00 Apriori rate (us/s) -1.56602854733E+00 Resid rate (us/s) 6.00262E-08 +/- 5.5E-09
 Total phase (deg) 126.9 Apriori accel (us/s/s) -8.72493573249E-06 Resid phase (deg) -158.6 +/- 17.7

RMS Theor. Amplitude 0.178 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 42.8 41.5 Search (1024X32) 0.174 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 78.5 72.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 36.8 25.0 Inc. seg. avg. 0.187 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 52.3 43.6 Inc. frq. avg. 0.185 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

X: az 261.7 el 46.4 pa 39.8 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 10786.107 1231.705 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/Xo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/Xo.W.168.18UHRL

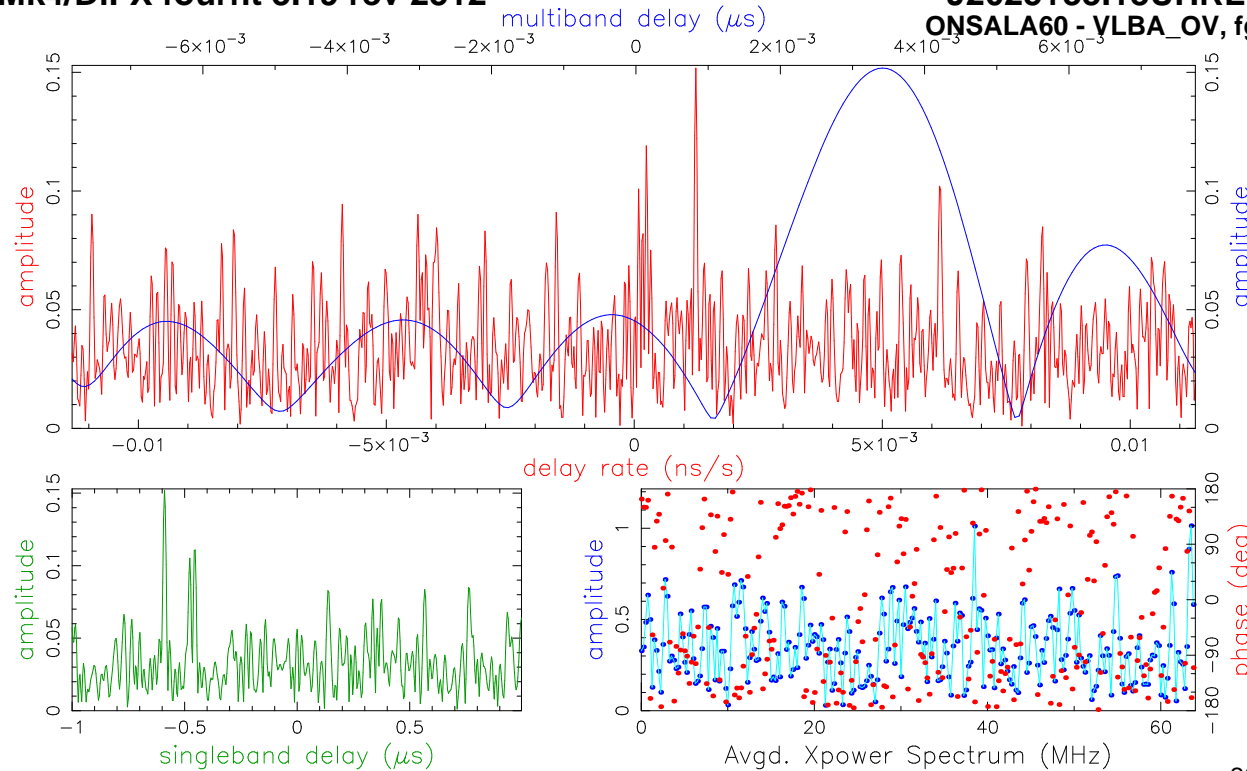


Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



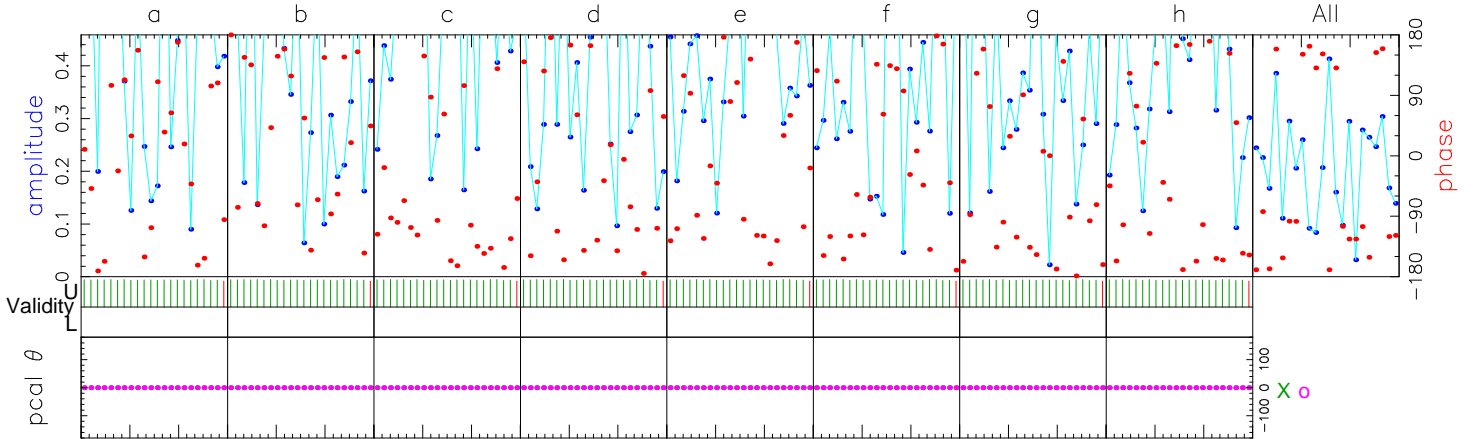
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-64.6	-53.5	-83.1	-46.2	-14.1	-149.6	-66.7	-92.0	Phase	-63.3
	0.4	0.3	0.4	0.1	0.4	0.2	0.2	0.1	Ampl.	0.2
	327.1	473.9	234.8	303.4	326.6	478.7	231.1	472.5	Sbd box	326.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
X	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)	4.46436774246E+03		Apriori delay (usec)	4.46409204543E+03	Resid mbdelay (usec)	-5.55297E-03	+/-	1.7E-04		
Sband delay (usec)	4.46436339693E+03		Apriori clock (usec)	2.0675940E+01	Resid sbdelay (usec)	2.71351E-01	+/-	1.4E-03		
Phase delay (usec)	4.46409204338E+03		Apriori clockrate (us/s)	3.2700001E-07	Resid phdelay (usec)	-2.04178E-06	+/-	5.9E-07		
Delay rate (us/s)	-1.56603700926E+00		Apriori rate (us/s)	-1.56602854733E+00	Resid rate (us/s)	-8.46193E-06	+/-	5.6E-09		
Total phase (deg)		222.2	Apriori accel (us/s/s)	-8.72493573249E-06	Resid phase (deg)	-63.3	+/-	18.2		

	RMS	Theor.	Amplitude	0.220 +/- 0.035	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	36.5	42.6	Search (1024X32)	0.167	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	54.1	74.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	43.7	25.7	Inc. seg. avg.	0.196	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	50.0	44.9	Inc. frq. avg.	0.236	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			



Fringe quality 0
SNR 5.5
Int time 177.040
Amp 0.153
Phase -159.6
PFD 9.7e-01
Delays (us)
SBD -0.589233
MBD 0.003443
Fringe rate (Hz) 0.106733
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
2020:199:143712
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
	128.2	-178.7	-130.1	-163.0	-157.9	-170.8	-163.4	-162.6	Phase	-159.6
	0.1	0.1	0.3	0.1	0.1	0.2	0.2	0.2	Ampl.	0.1
	212.9	429.5	105.5	35.4	366.3	108.0	139.8	335.1	Sbd box	106.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

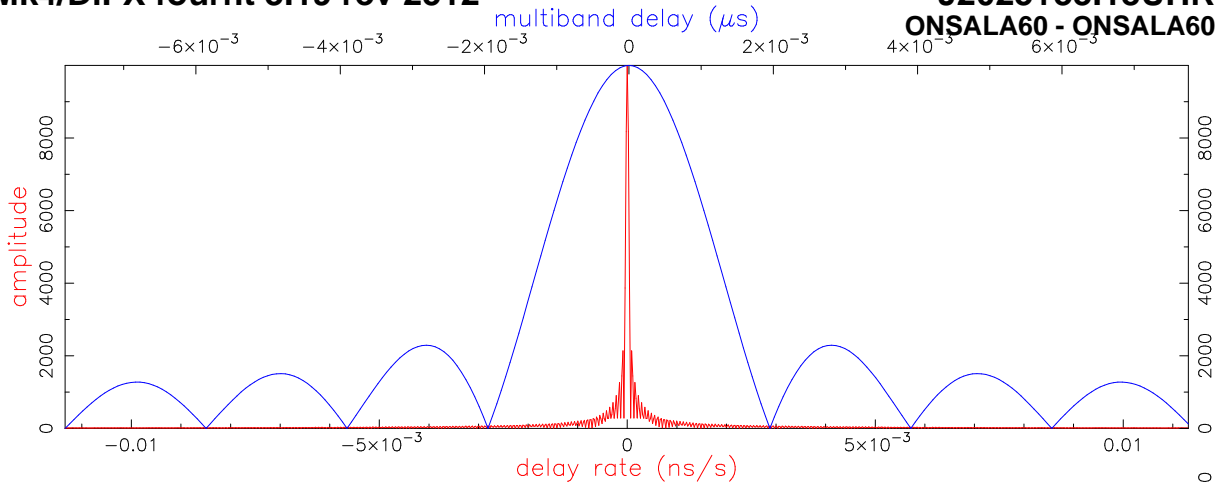
Group delay (usec)(sbd)	4.46350173805E+03	Apriori delay (usec)	4.46409204543E+03	Resid mbdelay (usec)	3.44262E-03	+/-	2.0E-04
Sband delay (usec)	4.46350281293E+03	Apriori clock (usec)	2.0675940E+01	Resid sbdelay (usec)	-5.89233E-01	+/-	1.6E-03
Phase delay (usec)	4.46409204028E+03	Apriori clockrate (us/s)	3.2700001E-07	Resid phdelay (usec)	-5.14826E-06	+/-	6.7E-07
Delay rate (us/s)	-1.56602730827E+00	Apriori rate (us/s)	-1.56602854733E+00	Resid rate (us/s)	1.23906E-06	+/-	6.4E-09
Total phase (deg)	125.8	Apriori accel (us/s/s)	-8.72493573249E-06	Resid phase (deg)	-159.6	+/-	20.7

ph/seg (deg)	RMS 46.4	Theor. 48.5	Amplitude Search (1024X32)	0.153 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	74.5	84.7	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)	33.2	29.3	Inc. seg. avg.	0.157	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	48.8	51.1	Inc. frq. avg.	0.145	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

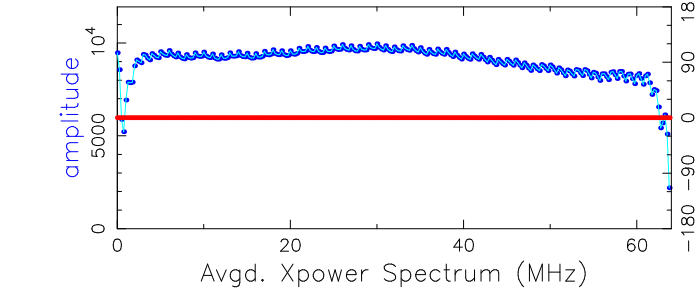
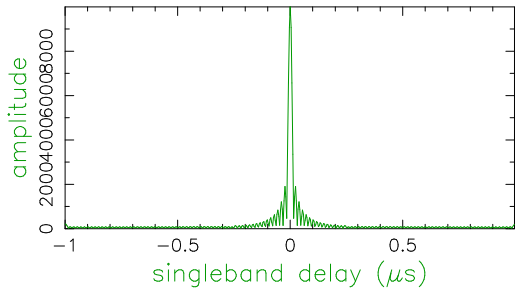
X: az 261.7 el 46.4 pa 39.8 o: az 68.8 el 30.5 pa -63.2 u,v (fr/asec) 10786.107 1231.705 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/Xo..18UHRL Output file: /Exps/c201b/v1/1234/No0058/Xo.W.204.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

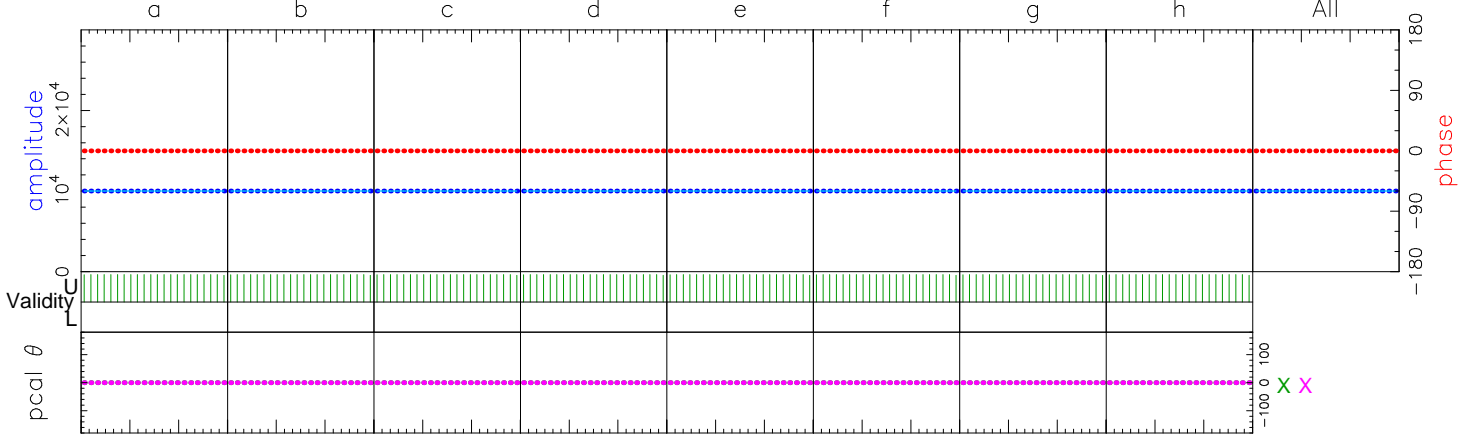
J2025+33.18UHRL, No0058, XX
ONŞALA60 - ONSALA60, fgroup W, pol LL



Fringe quality 9
SNR 366817.2
Int time 179.930
Amp 9999.999
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201b
Yr:day 16383
Start 2020:117
Stop 2020:191
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143704
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



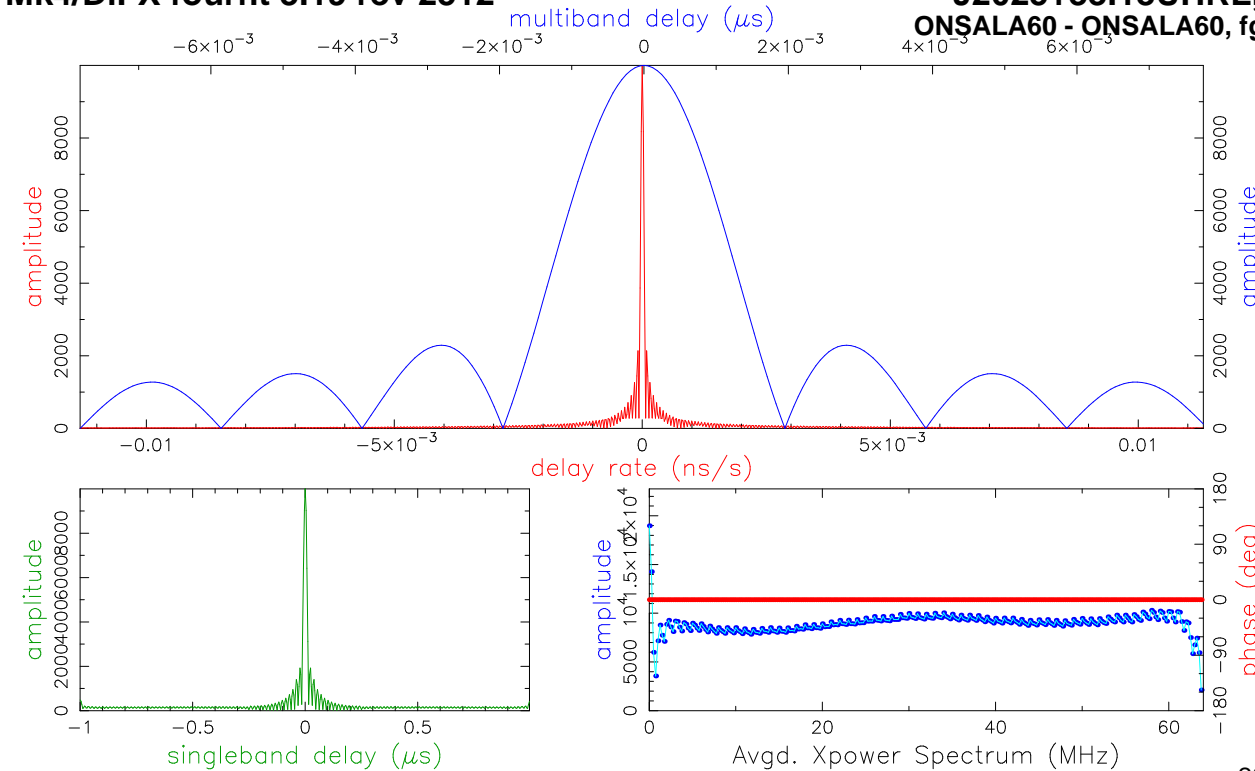
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
X	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	+/-	2.3E-08
Phase delay (usec)	7.29494526853E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.29495E-20	+/-	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	9999.999 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.0	0.0	0.0	Search (1024X32)	9999.999	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	9999.999	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

X: az 261.7 el 46.4 pa 39.8 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/XX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/XX.W.157.18UHRL

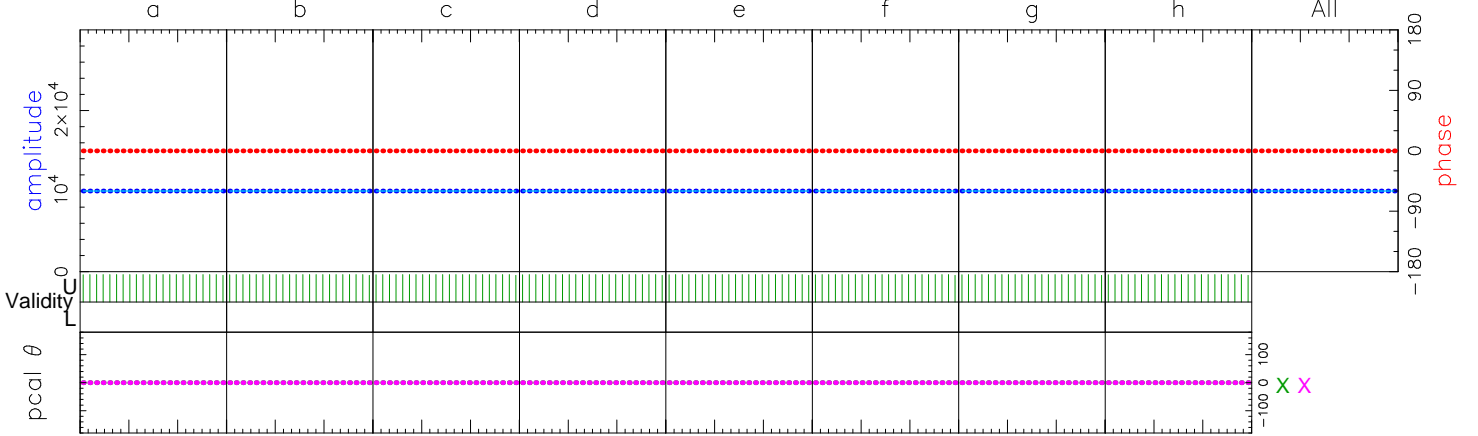


Fringe quality 9

SNR 366817.2
 Int time 179.930
 Amp 9999.999
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201b
 Exper # 16383
 Yr:day 2020:117
 Start 090000.00
 Stop 090300.22
 FRT 090130.00
 Corr/FF/build
 2020:198:173855
 2020:199:143712
 2020:014:135814
 RA & Dec (J2000)
 20h25m10.842106s
 +33°43'00.214364"

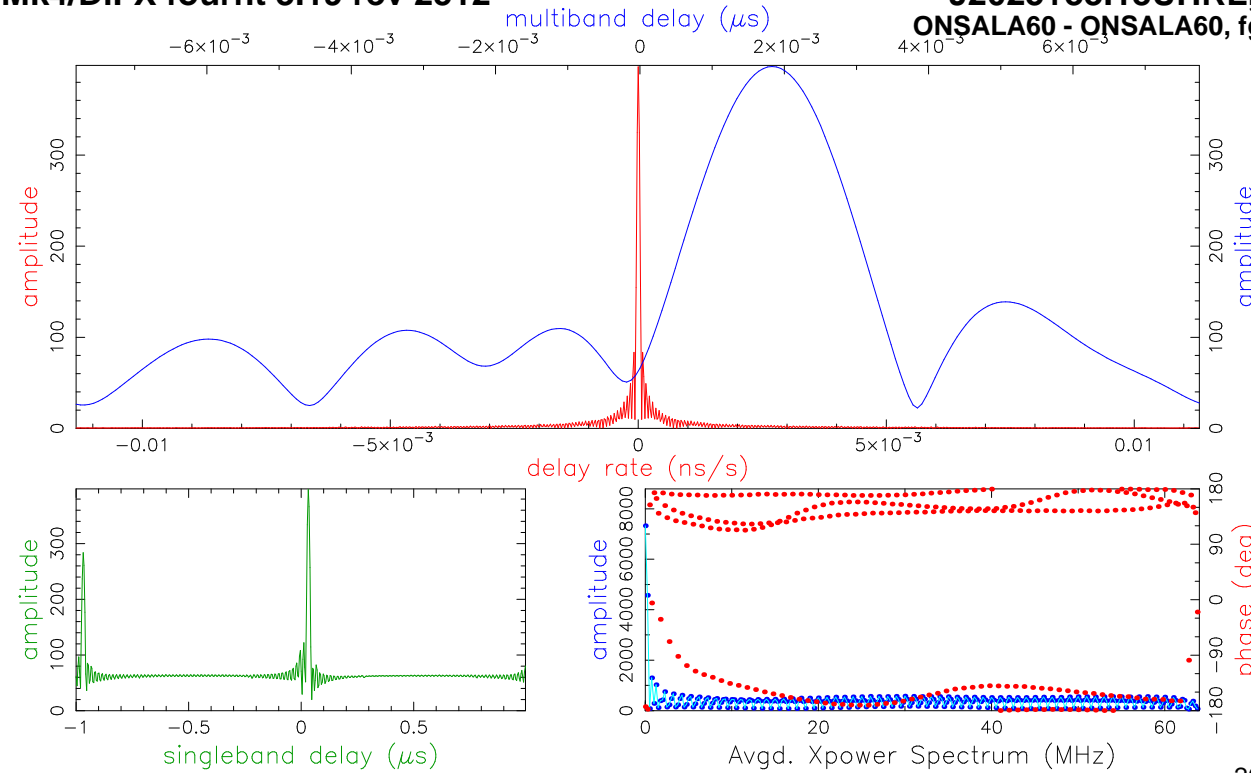
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	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		
X	1000	1000	1000	1000	1000	1000	1000	1000		
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

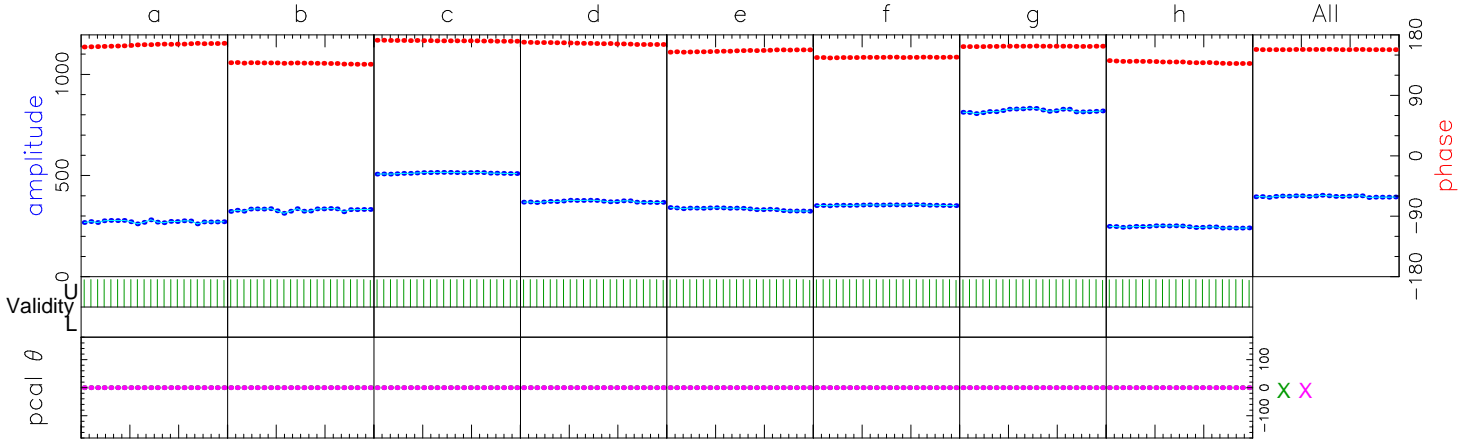
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	3.0E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	2.3E-08
Phase delay (usec)	6.16582082158E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.16582E-20	+/-	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	9999.999 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.0	0.0	0.0	Search (1024X32)	9999.999	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	9999.999	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00



Fringe quality 6
 SNR 14616.8
 Int time 179.930
 Amp 398.475
 Phase 158.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.031933
 MBD 0.001873
 Fringe rate (Hz)
 -0.000027
 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
 2020:199:143713
 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
	165.0	137.5	171.1	167.1	156.1	146.4	162.9	139.2	Phase	158.0
	271.9	329.8	512.3	371.9	334.5	353.6	820.2	246.2	Ampl.	405.0
	264.1	266.1	265.2	265.2	265.7	265.4	265.0	264.9	Sbd box	265.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

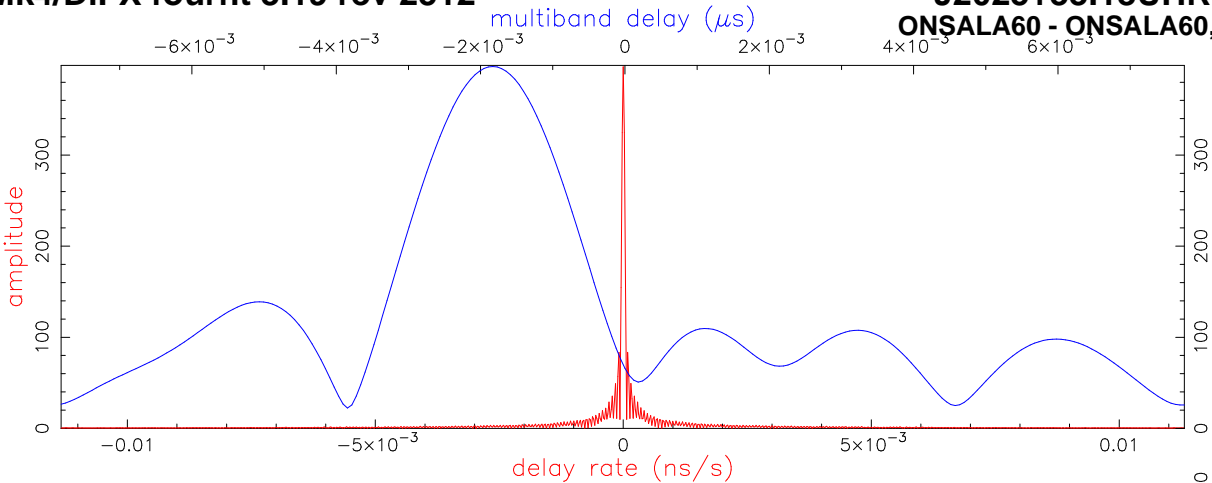
Group delay (usec)(sbd) 3.31226875000E-02 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) 1.87269E-03 +/- 7.4E-08
 Sband delay (usec) 3.19330000000E-02 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 3.19330E-02 +/- 5.9E-07
 Phase delay (usec) 5.09564037242E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 5.09564E-06 +/- 2.5E-10
 Delay rate (us/s) -3.11765352617E-10 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -3.11765E-10 +/- 2.4E-12
 Total phase (deg) 158.0 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 158.0 +/- 0.0

RMS Theor. Amplitude 398.475 +/- 0.027 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.2 0.0 Search (1024X32) 394.995 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.8 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 14.4 0.0 Inc. seg. avg. 396.996 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 43.6 0.0 Inc. frq. avg. 405.048 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

X: az 261.7 el 46.4 pa 39.8 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/XX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/XX.W.210.18UHRL

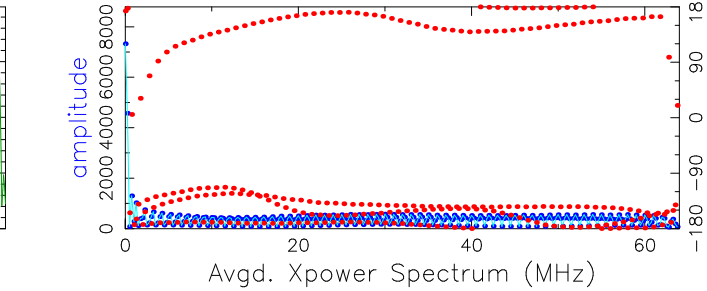
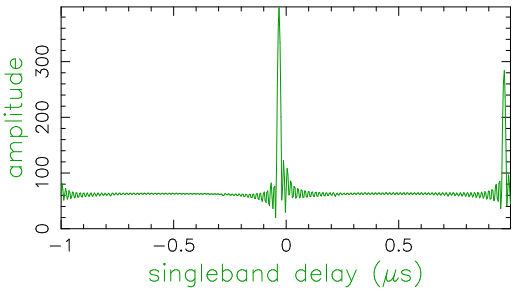
Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, XX
ONSALA60 - ONSALA60, fgroup W, pol RL



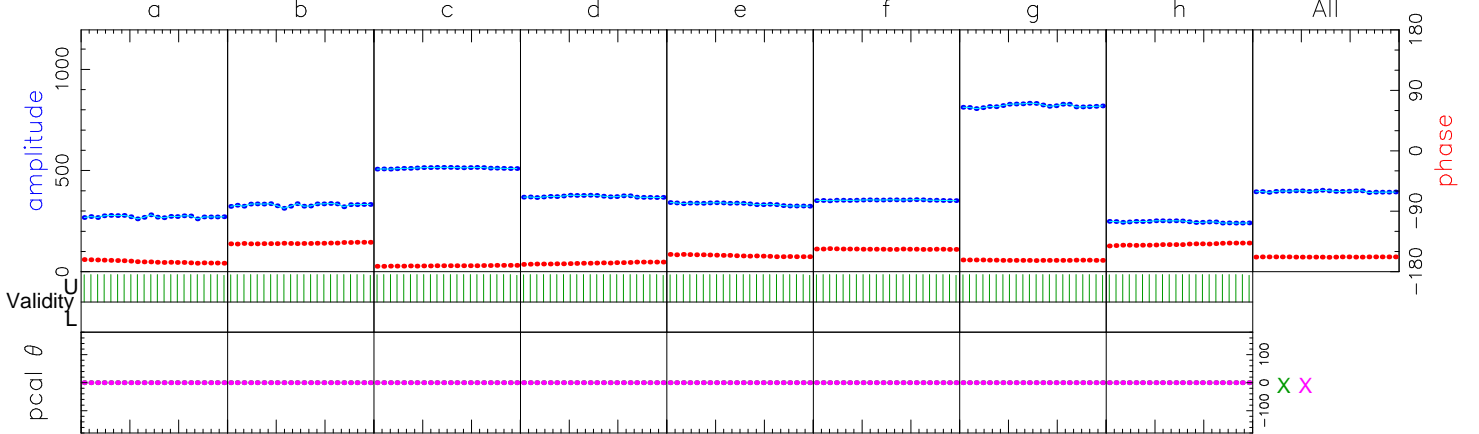
Fringe quality 6

SNR 14616.8
Int time 179.930
Amp 398.475
Phase -158.0
PFD 0.0e+00
Delays (us)
SBD -0.031933
MBD -0.001873
Fringe rate (Hz)
0.000027
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
2020:199:143715
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
	-165.0	-137.5	-171.1	-167.1	-156.1	-146.4	-162.9	-139.2		-158.0
	271.9	329.8	512.3	371.9	334.5	353.6	820.2	246.2		405.0
	249.9	247.9	248.8	248.8	248.3	248.6	249.0	249.1		248.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
X	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
X	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
X	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
X	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks

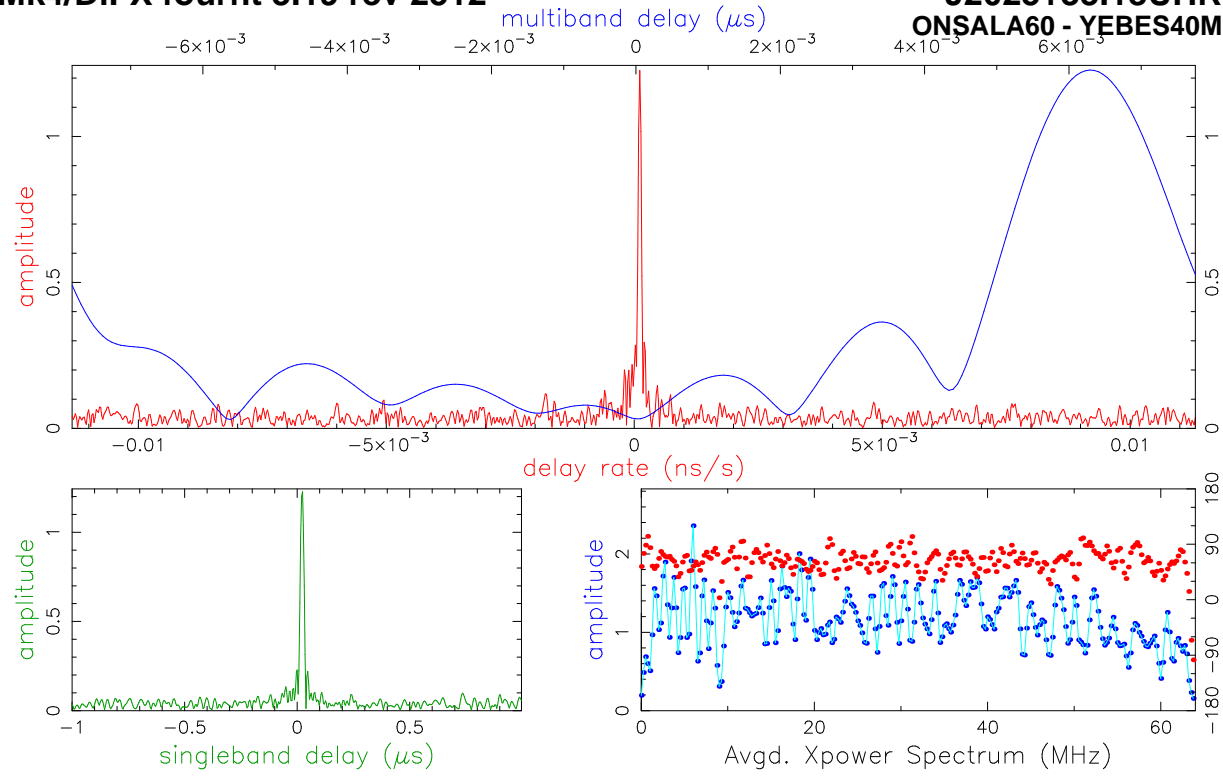
Group delay (usec)(sbd)	-3.31226875000E-02	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-1.87269E-03	+/-	7.4E-08
Sband delay (usec)	-3.19330000000E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-3.19330E-02	+/-	5.9E-07
Phase delay (usec)	-5.09564037250E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-5.09564E-06	+/-	2.5E-10
Delay rate (us/s)	3.11765352617E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	3.11765E-10	+/-	2.4E-12
Total phase (deg)	-158.0	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-158.0	+/-	0.0

ph/seg (deg)	0.2	0.0	RMS	0.2	Theor.	0.0	Amplitude	398.475 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	0.8	0.0	Search (1024X32)	394.995	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	14.4	0.0	Inc. seg. avg.	396.996	Inc. frq. avg.	405.048	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	43.6	0.0	Inc. frq. avg.	405.048	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags:	256	t_cohere	infinite	
											ion window (TEC)	0.00	0.00

X: az 261.7 el 46.4 pa 39.8 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/XX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/XX.W.218.18UHRL

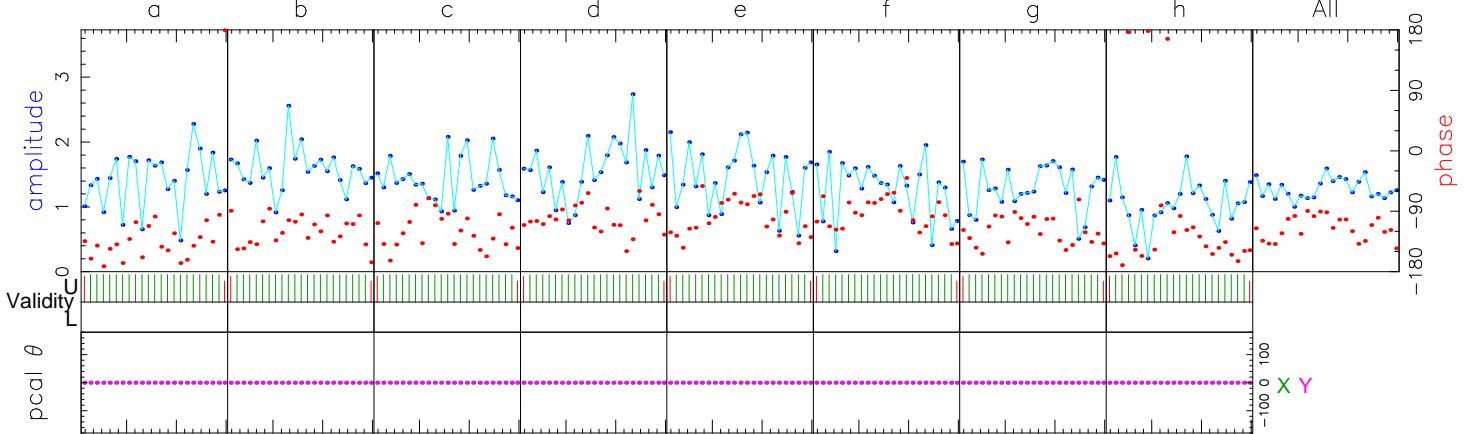
Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, XY
ONŞALA60 - YEBES40M, fgroup W, pol LL



Fringe quality 8
SNR 44.9
Int time 174.300
Amp 1.244
Phase -114.7
PFD 0.0e+00
Delays (us)
SBD 0.021923
MBD 0.006250
Fringe rate (Hz)
0.008619
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
2020:199:143708
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
	-135.4	-117.5	-119.5	-102.6	-95.3	-91.8	-120.0	-142.7	Phase	-114.7
	1.3	1.5	1.3	1.5	1.3	1.2	1.2	0.9	Ampl.	1.3
	263.0	262.9	262.5	262.9	262.6	262.2	262.2	261.2	Sbd box	262.6
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

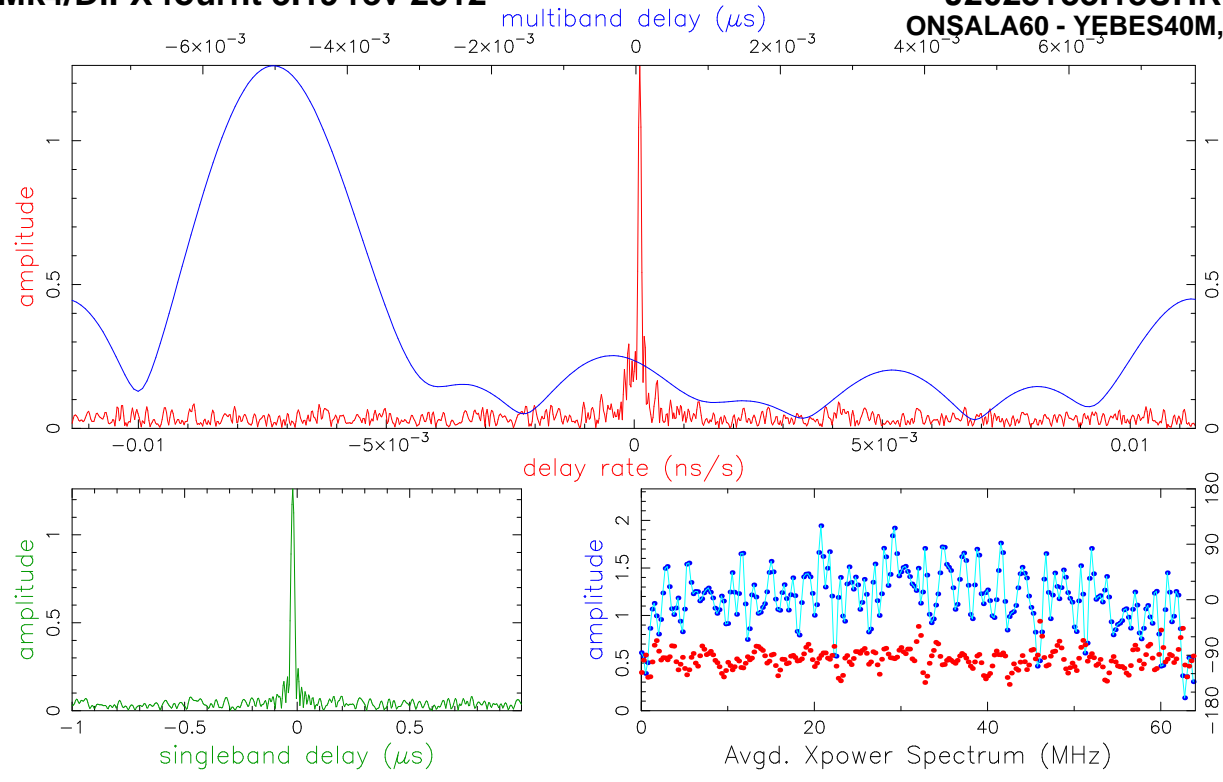
Group delay (usec)(sbd)	-2.52356777583E+03	Apriori delay (usec)	-2.52358965070E+03	Resid mbdelay (usec)	6.24987E-03	+/-	2.4E-05
Sband delay (usec)	-2.52356772820E+03	Apriori clock (usec)	2.8793270E+01	Resid sbdelay (usec)	2.19225E-02	+/-	1.9E-04
Phase delay (usec)	-2.52358965440E+03	Apriori clockrate (us/s)	3.0800002E-07	Resid phdelay (usec)	-3.69807E-06	+/-	8.2E-08
Delay rate (us/s)	6.42243138310E-02	Apriori rate (us/s)	6.42242137784E-02	Resid rate (us/s)	1.00053E-07	+/-	8.1E-10
Total phase (deg)	-298.8	Apriori accel (us/s/s)	2.56698652001E-05	Resid phase (deg)	-114.7	+/-	2.6

ph/seg (deg)	RMS 16.9	Theor. 6.1	Amplitude Search (1024X32)	1.244 +/- 0.028	1.174	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	12.5	10.7	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	19.7	3.6	Inc. seg. avg.	1.275	1.275	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	13.3	6.3	Inc. frq. avg.	1.275	1.275	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

X: az 261.7 el 46.4 pa 39.8 Y: az 271.1 el 57.5 pa 66.0 u,v (fr/asec) -421.507 2771.186 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/XY..18UHRL Output file: /Exps/c201b/v1/1234/No0058/XY.W.174.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, XY
ONŞALA60 - YEŞES40M, fgroup W, pol RR

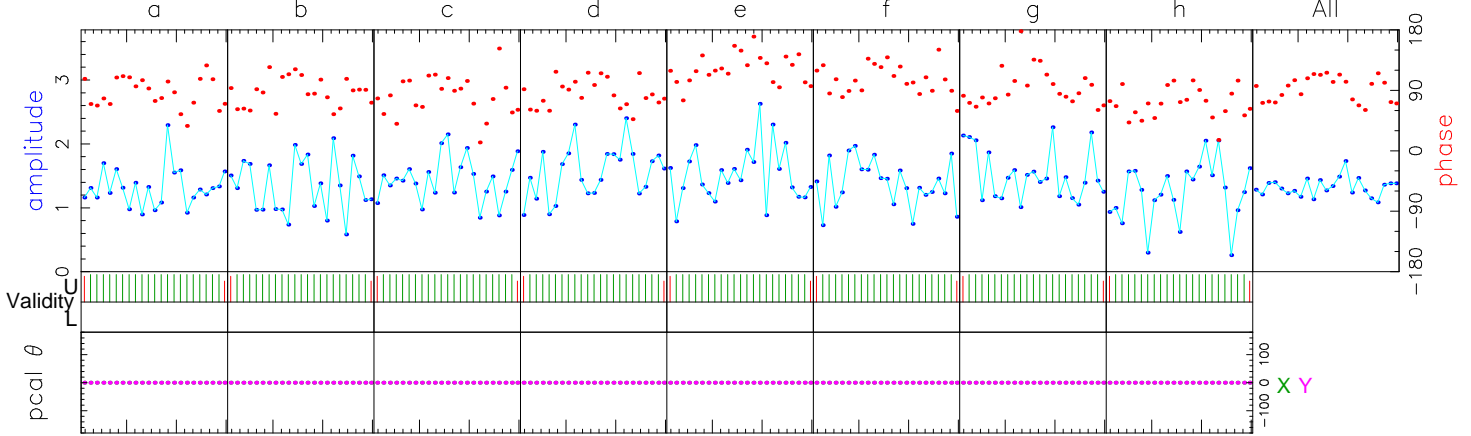


Fringe quality 8

SNR 45.6
Int time 174.300
Amp 1.262
Phase 92.2
PFD 0.0e+00
Delays (us)
SBD -0.019952
MBD -0.005038
Fringe rate (Hz) 0.008656
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

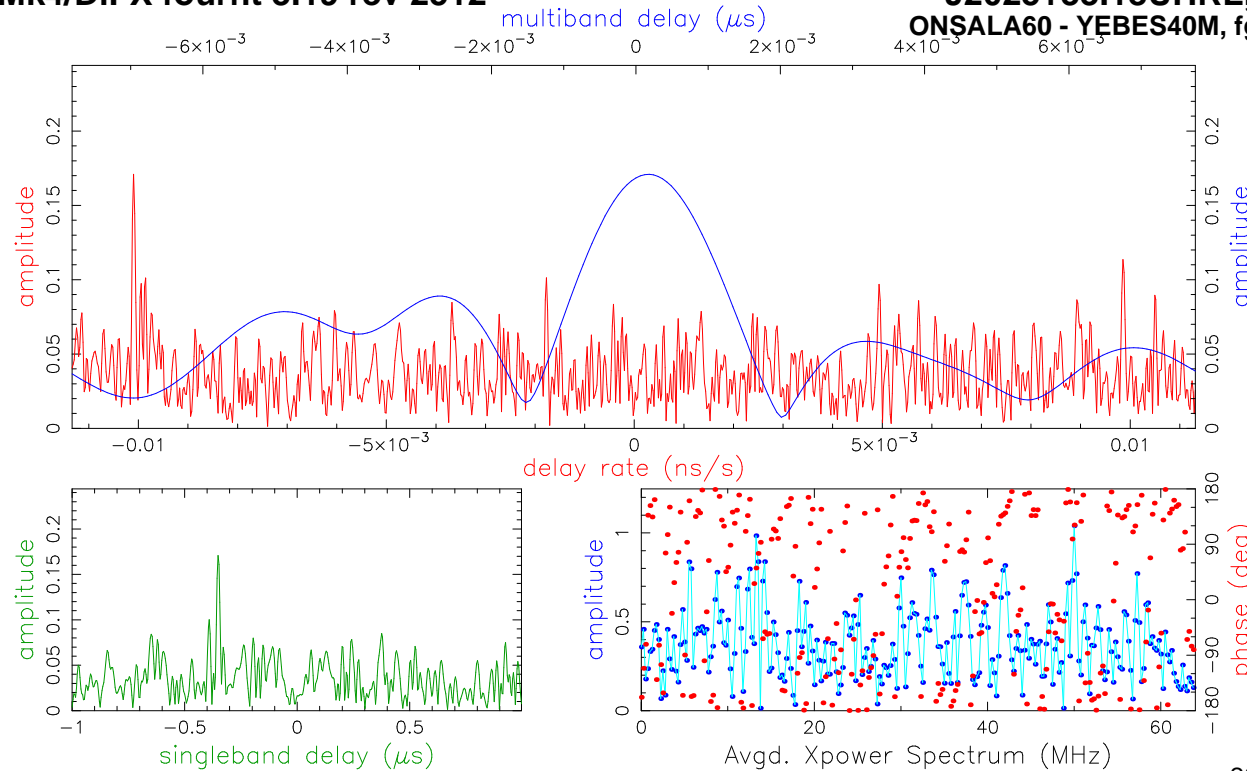
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090005.12
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143711
2020:014:135814
RA & Dec (J2000)
20h25m10.842106s
+33°43'00.214364"

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
	87.3	87.1	83.0	84.4	123.4	107.6	92.1	67.9	Phase	92.2
	1.2	1.2	1.3	1.5	1.4	1.3	1.4	1.1	Ampl.	1.3
	252.4	251.2	251.9	251.8	252.1	251.3	251.8	250.7	Sbd box	251.9
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.52361031333E+03		Apriori delay (usec)		-2.52358965070E+03		Resid mbdelay (usec)		-5.03763E-03	+/- 2.4E-05
Sband delay (usec)	-2.52360960245E+03		Apriori clock (usec)		2.8793270E+01		Resid sbdelay (usec)		-1.99517E-02	+/- 1.9E-04
Phase delay (usec)	-2.52358964773E+03		Apriori clockrate (us/s)		3.0800002E-07		Resid phdelay (usec)		2.97190E-06	+/- 8.1E-08
Delay rate (us/s)	6.42243142646E-02		Apriori rate (us/s)		6.42242137784E-02		Resid rate (us/s)		1.00486E-07	+/- 8.0E-10
Total phase (deg)			Apriori accel (us/s/s)		2.56698652001E-05		Resid phase (deg)		92.2	+/- 2.5

ph/seg (deg) 17.8 6.0 Search (1024X32) 1.201 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 12.2 10.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 18.2 3.6 Inc. seg. avg. 1.317 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 9.0 6.2 Inc. frq. avg. 1.307 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
X: az 261.7 el 46.4 pa 39.8 Y: az 271.1 el 57.5 pa 66.0 u,v (fr/asec) -421.507 2771.186 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/XY..18UHRL Output file: /Exps/c201b/v1/1234/No0058/XY.W.193.18UHRL

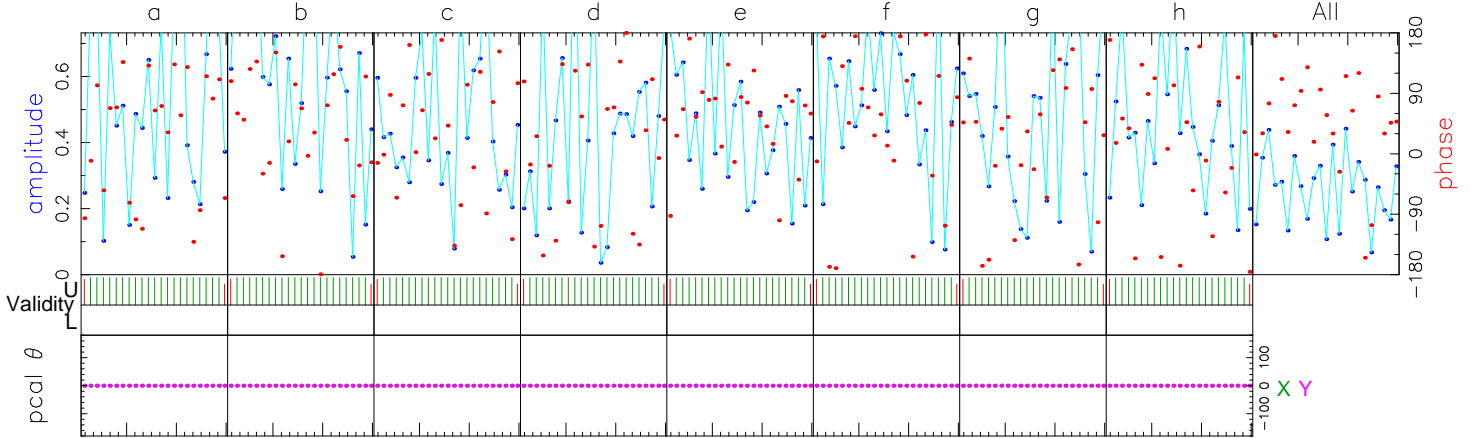


Fringe quality 0

SNR 6.2
Int time 174.300
Amp 0.244
Phase 75.3
PFD 7.2e-02
Delays (us)
SBD -0.350701
MBD 0.000190
Fringe rate (Hz)
-0.871262
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
2020:199:143713
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



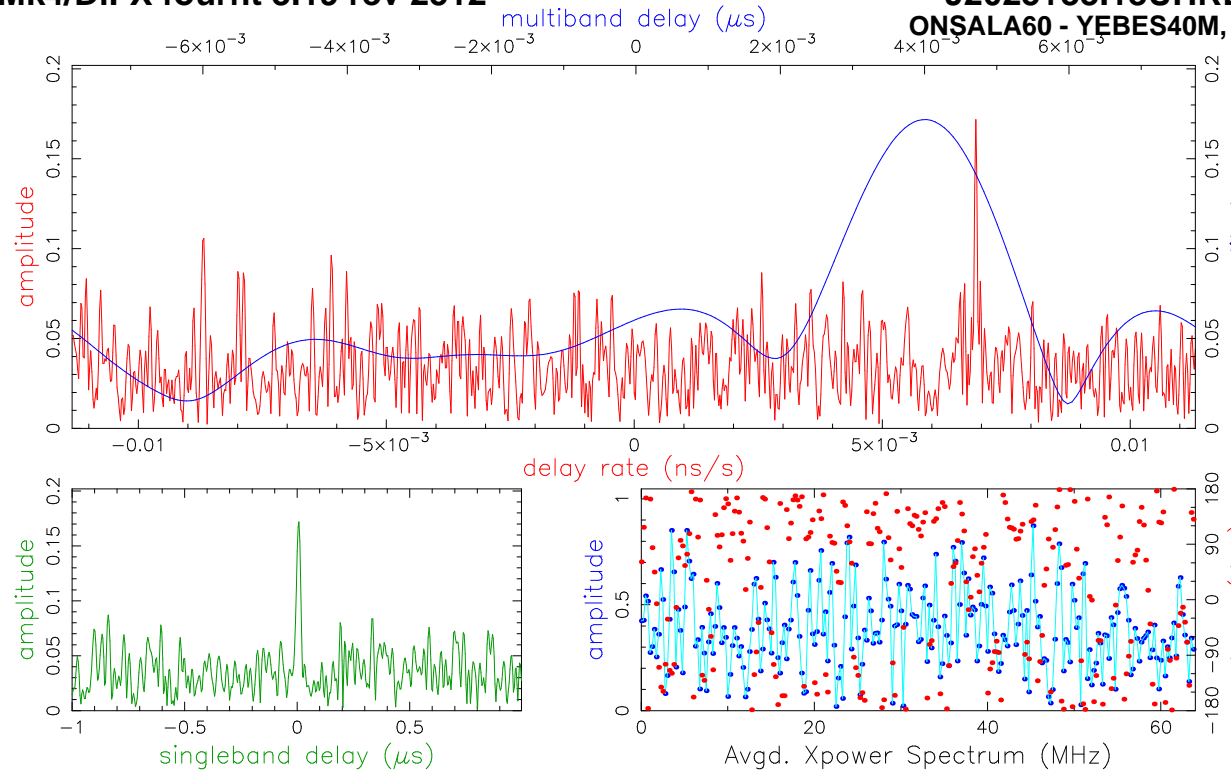
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	88.9	68.0	27.9	152.9	50.5	94.6	81.9	61.3	Phase	75.3
	0.4	0.4	0.2	0.2	0.3	0.3	0.2	0.2	Ampl.	0.3
	168.1	167.5	272.0	78.3	236.4	297.5	492.6	476.1	Sbd box	167.2
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-2.52393321080E+03	Apriori delay (usec)	-2.52358965070E+03	Resid mbdelay (usec)	1.89901E-04	+/-	1.8E-04
Sband delay (usec)	-2.52394035170E+03	Apriori clock (usec)	2.8793270E+01	Resid sbdelay (usec)	-3.50701E-01	+/-	1.4E-03
Phase delay (usec)	-2.52358964827E+03	Apriori clockrate (us/s)	3.0800002E-07	Resid phdelay (usec)	2.42672E-06	+/-	6.0E-07
Delay rate (us/s)	6.42140992899E-02	Apriori rate (us/s)	6.42242137784E-02	Resid rate (us/s)	-1.01145E-05	+/-	5.9E-09
Total phase (deg)	-108.8	Apriori accel (us/s/s)	2.56698652001E-05	Resid phase (deg)	75.3	+/-	18.5

ph/seg (deg)	65.2	RMS	44.3	Theor.	44.3	Amplitude	0.244 +/- 0.039	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	80.0	Search (1024X32)	0.168	Search	0.168	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000			
ph/frq (deg)	40.3	Inc. seg. avg.	0.286	Inc. seg. avg.	0.286	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008		
amp/frq (%)	43.1	Inc. frq. avg.	0.250	Inc. frq. avg.	0.250	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

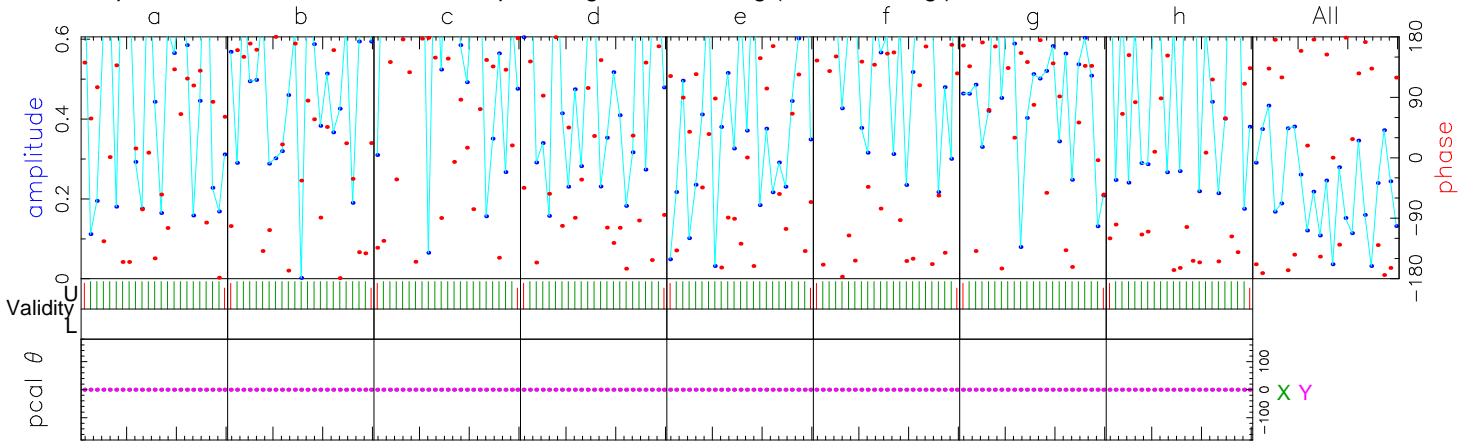
X: az 261.7 el 46.4 pa 39.8 Y: az 271.1 el 57.5 pa 66.0 u,v (fr/asec) -421.507 2771.186 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/XY..18UHRL Output file: /Exps/c201b/v1/1234/No0058/XY.W.206.18UHRL



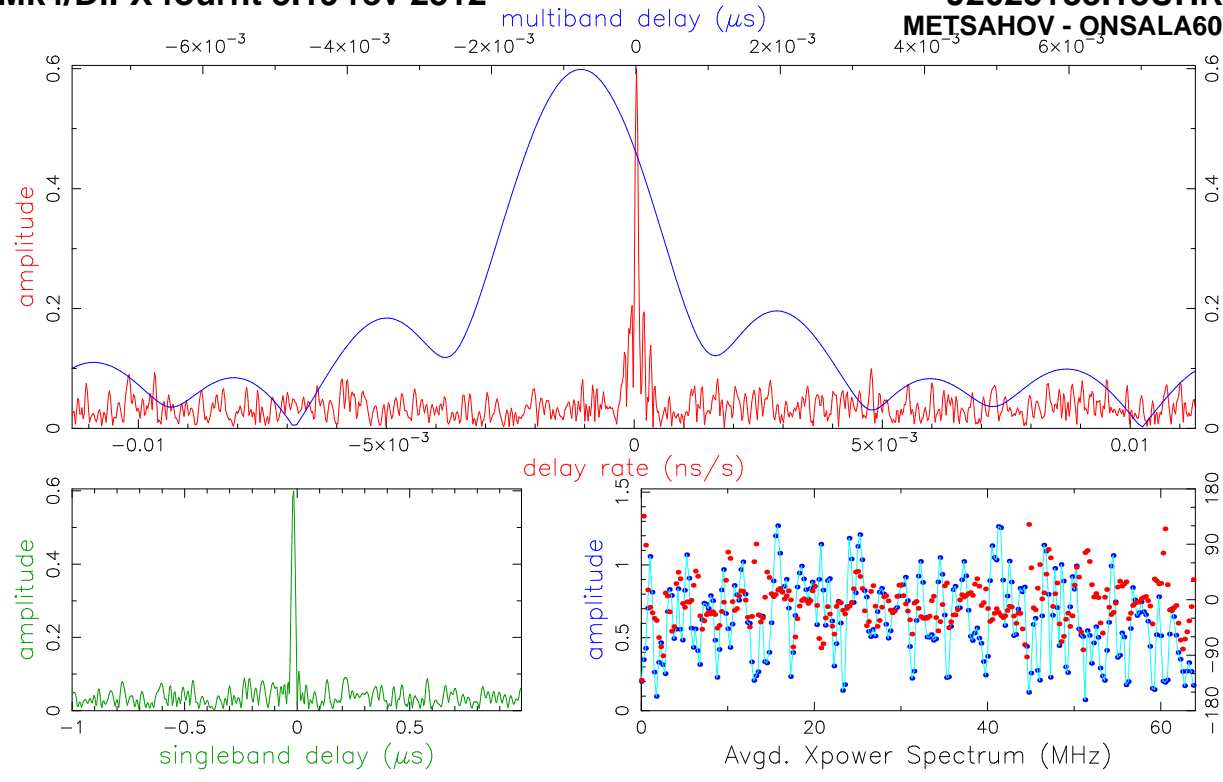
Fringe quality 0
SNR 6.2
Int time 174.300
Amp 0.202
Phase 177.1
PFD 5.9e-02
Delays (us)
SBD 0.006728
MBD 0.004013
Fringe rate (Hz) 0.593369
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201b
Exper # 16383
Yr:day 2020:117
Start 090005.12
Stop 090300.22
FRT 090130.00
Corr/FF/build
2020:198:173855
2020:199:143715
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
	175.2	173.3	165.4	-148.8	-151.6	176.5	144.2	-159.3	Phase	177.1
	0.1	0.2	0.2	0.2	0.1	0.5	0.3	0.2	Ampl.	0.2
	308.9	94.8	103.4	261.9	480.1	258.4	258.1	202.9	Sbd box	258.7
U/L	342/0	342/0	342/0	342/0	342/0	342/0	342/0	342/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	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)	-2.52358563761E+03		Apriori delay (usec)		-2.52358965070E+03		Resid mbdelay (usec)		4.01309E-03	+/- 1.7E-04
Sband delay (usec)	-2.52358292245E+03		Apriori clock (usec)		2.8793270E+01		Resid sbdelay (usec)		6.72825E-03	+/- 1.4E-03
Phase delay (usec)	-2.52358964499E+03		Apriori clockrate (us/s)		3.0800002E-07		Resid phdelay (usec)		5.71035E-06	+/- 5.9E-07
Delay rate (us/s)	6.42311022070E-02		Apriori rate (us/s)		6.42242137784E-02		Resid rate (us/s)		6.88843E-06	+/- 5.9E-09
Total phase (deg)			Apriori accel (us/s/s)		2.56698652001E-05		Resid phase (deg)		177.1	+/- 18.4

ph/seg (deg) 67.0 44.1 Search (1024X32) 0.170 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 73.3 76.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.6 26.0 Inc. seg. avg. 0.208 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 53.3 45.4 Inc. frq. avg. 0.195 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 X: az 261.7 el 46.4 pa 39.8 Y: az 271.1 el 57.5 pa 66.0 u,v (fr/asec) -421.507 2771.186 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/XY..18UHRL Output file: /Exps/c201b/v1/1234/No0058/XY.W.215.18UHRL

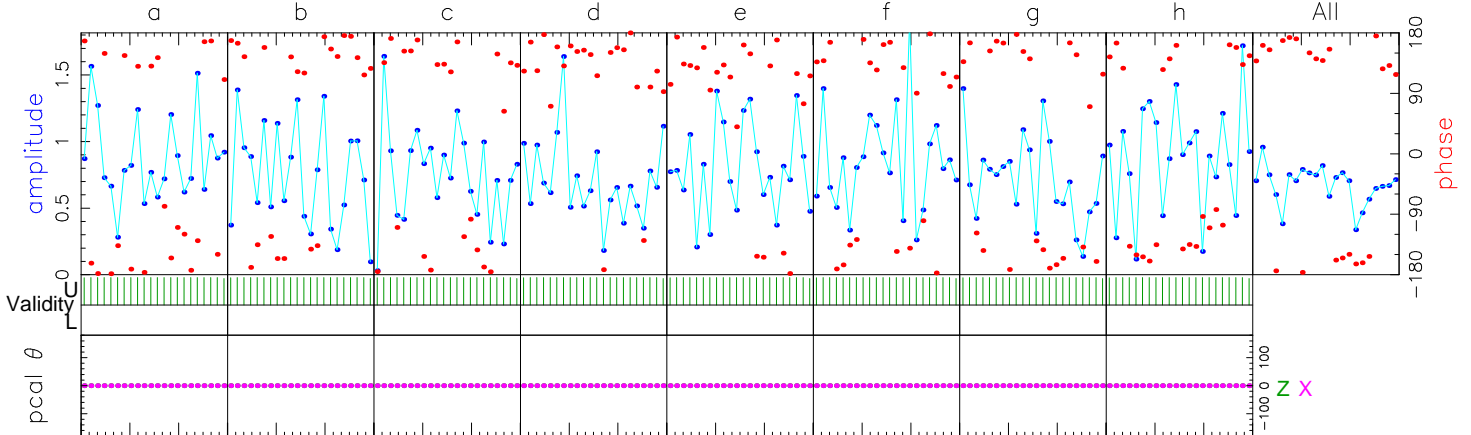


Fringe quality 9

SNR 22.2
 Int time 179.620
 Amp 0.606
 Phase 166.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.017015
 MBD -0.000790
 Fringe rate (Hz) 0.003501
 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
 2020:199:143709
 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



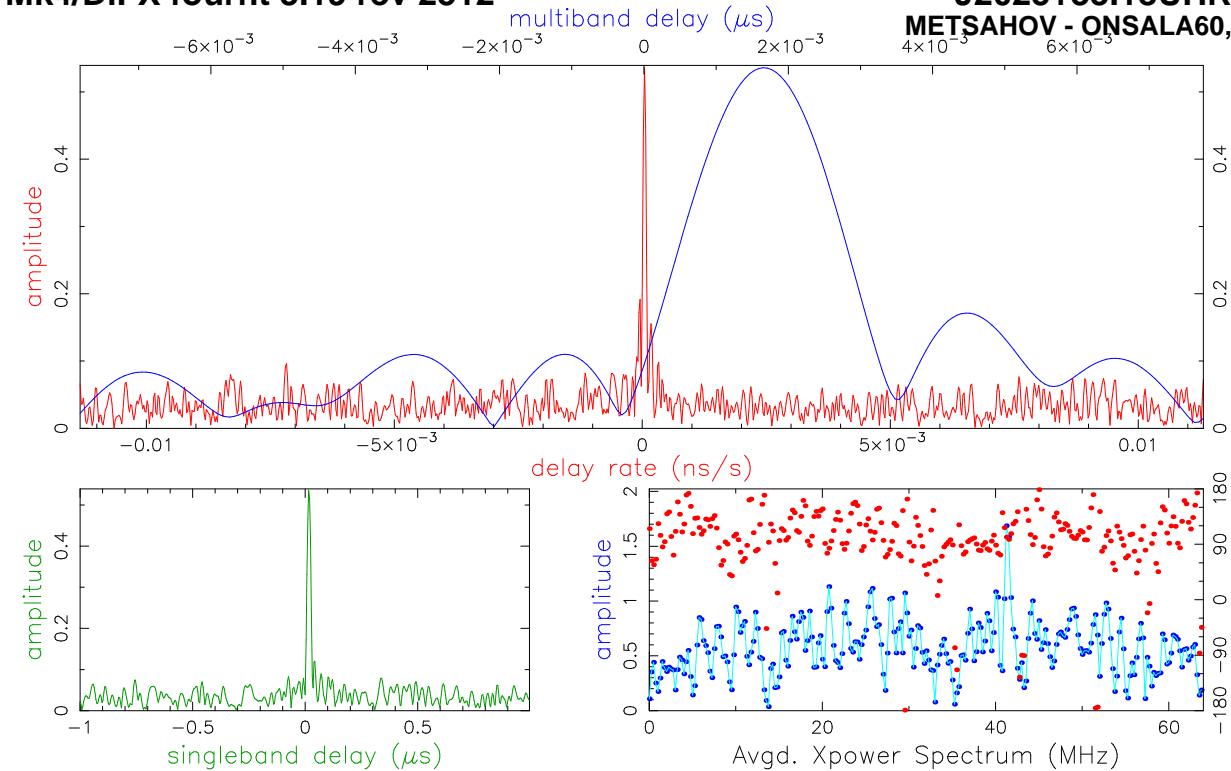
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-175.7	168.1	167.0	136.8	141.1	168.0	172.6	-170.7	Phase	166.2
	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.6	Ampl.	0.6
	252.7	252.1	252.2	252.1	253.5	252.7	252.9	253.5	Sbd box	252.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.84610563611E+03	Apriori delay (usec)	-1.84608922152E+03	Resid mbdelay (usec)	-7.89588E-04	+/-	4.9E-05
Sband delay (usec)	-1.84610623677E+03	Apriori clock (usec)	-4.0883930E+01	Resid sbdelay (usec)	-1.70153E-02	+/-	3.9E-04
Phase delay (usec)	-1.84608921616E+03	Apriori clockrate (us/s)	-5.1200000E-07	Resid phdelay (usec)	5.35939E-06	+/-	1.7E-07
Delay rate (us/s)	-2.08867471605E-02	Apriori rate (us/s)	-2.08867878076E-02	Resid rate (us/s)	4.06471E-08	+/-	1.6E-09
Total phase (deg)	-28.8	Apriori accel (us/s/s)	1.12046957721E-05	Resid phase (deg)	166.2	+/-	5.2

ph/seg (deg)	27.7	Theor.	12.1	Amplitude	0.606 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	25.6	Search (1024X32)	0.585	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000 1.000
ph/frq (deg)	20.0	Interp.	0.000	Bits/sample: 2x2		mb window (us)	-0.008 0.008
amp/frq (%)	5.9	Inc. seg. avg.	0.660	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011
		Inc. frq. avg.	0.622	Data rate(Mb/s): 2048		ion window (TEC)	0.00 0.00

Z: az 270.2 el 39.7 pa 36.7 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) 152.234 776.291 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/ZX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/ZX.W.185.18UHRL

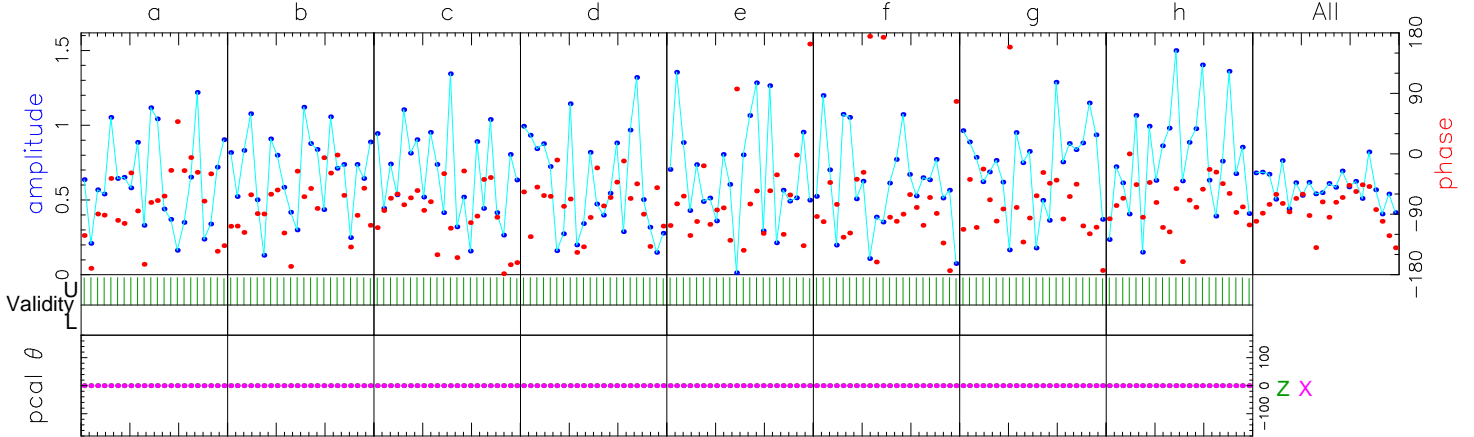


Fringe quality 9

SNR 19.8
 Int time 179.620
 Amp 0.539
 Phase -78.8
 PFD 0.0e+00
 Delays (us)
 SBD 0.016701
 MBD 0.001680
 Fringe rate (Hz) 0.003956
 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
 2020:199:143711
 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



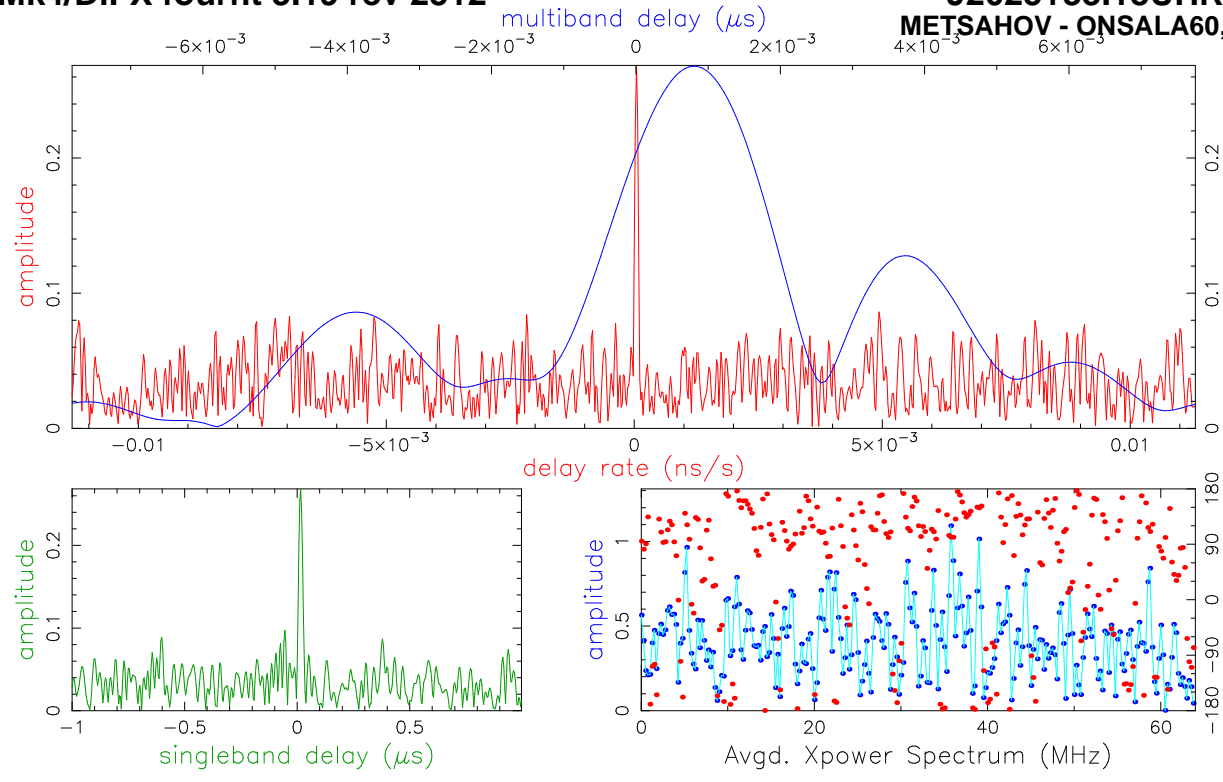
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-73.2	-72.0	-86.6	-68.3	-86.2	-96.5	-83.6	-67.6	Phase	-78.8
	0.5	0.6	0.5	0.5	0.5	0.5	0.6	0.7	Ampl.	0.5
	261.8	261.1	261.6	262.0	261.5	261.1	261.5	261.4	Sbd box	261.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-1.84607191611E+03	Apriori delay (usec)	-1.84608922152E+03	Resid mbdelay (usec)	1.68041E-03	+/-	5.5E-05
Sband delay (usec)	-1.84607252052E+03	Apriori clock (usec)	-4.0883930E+01	Resid sbdelay (usec)	1.67010E-02	+/-	4.4E-04
Phase delay (usec)	-1.84608922406E+03	Apriori clockrate (us/s)	-5.1200000E-07	Resid phdelay (usec)	-2.54091E-06	+/-	1.9E-07
Delay rate (us/s)	-2.08867418860E-02	Apriori rate (us/s)	-2.08867878076E-02	Resid rate (us/s)	4.59216E-08	+/-	1.8E-09
Total phase (deg)	-273.8	Apriori accel (us/s/s)	1.12046957721E-05	Resid phase (deg)	-78.8	+/-	5.8

ph/seg (deg)	26.4	Theor.	13.6	Amplitude	0.539 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	21.2		23.7	Search (1024X32)	0.526	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	11.3		8.2	Inc. seg. avg.	0.574	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	11.9		14.3	Inc. frq. avg.	0.538	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	

Z: az 270.2 el 39.7 pa 36.7 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) 152.234 776.291 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/ZX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/ZX.W.196.18UHRL

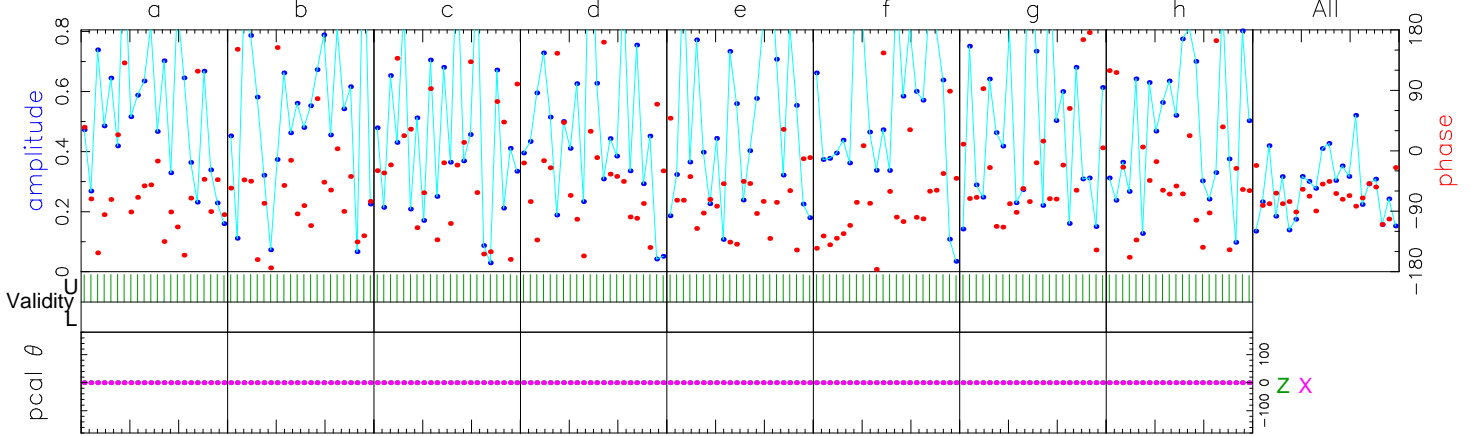


Fringe quality 9

SNR 9.8
 Int time 179.620
 Amp 0.269
 Phase -68.1
 PFD 1.6e-14
 Delays (us)
 SBD 0.014976
 MBD 0.000790
 Fringe rate (Hz)
 0.003507
 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
 2020:199:143713
 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
	-86.0	-67.3	-7.8	-48.5	-87.4	-85.9	-61.2	-57.5	Phase	-68.1
	0.3	0.3	0.2	0.3	0.4	0.3	0.3	0.2	Ampl.	0.3
	259.9	260.4	448.2	102.0	260.9	261.9	261.3	263.2	Sbd box	260.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-1.84607280698E+03	Apriori delay (usec)	-1.84608922152E+03	Resid mbdelay (usec)	7.89537E-04	+/-	1.1E-04
Sband delay (usec)	-1.84607424527E+03	Apriori clock (usec)	-4.0883930E+01	Resid sbdelay (usec)	1.49763E-02	+/-	8.8E-04
Phase delay (usec)	-1.84608922372E+03	Apriori clockrate (us/s)	-5.1200000E-07	Resid phdelay (usec)	-2.19725E-06	+/-	3.8E-07
Delay rate (us/s)	-2.08867470897E-02	Apriori rate (us/s)	-2.08867878076E-02	Resid rate (us/s)	4.07180E-08	+/-	3.6E-09
Total phase (deg)	-263.1	Apriori accel (us/s/s)	1.12046957721E-05	Resid phase (deg)	-68.1	+/-	11.6

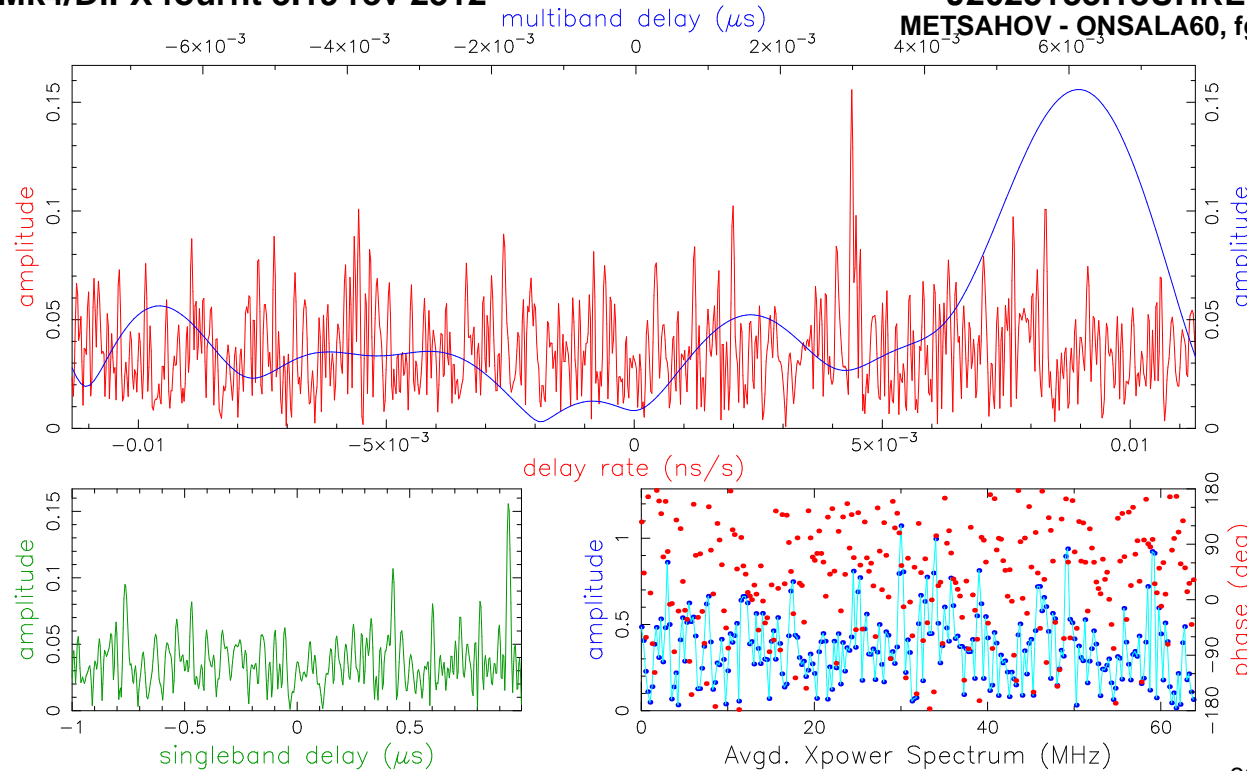
ph/seg (deg)	21.4	Theor.	27.3	Amplitude	0.269 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	38.1	Search (1024X32)	0.263	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	29.4	Inc. seg. avg.	0.254	Inc. frq. avg.	0.275	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	25.7	Inc. frq. avg.	0.275	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	dr window (ns/s)	-0.011 0.011
										ion window (TEC)	0.00 0.00

Z: az 270.2 el 39.7 pa 36.7 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) 152.234 776.291 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/ZX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/ZX.W.205.18UHRL

Mk4/DiFX fourfit 3.19 rev 2512

J2025+33.18UHRL, No0058, ZX
 METSAHOV - ONSALA60, fgroup W, pol RL

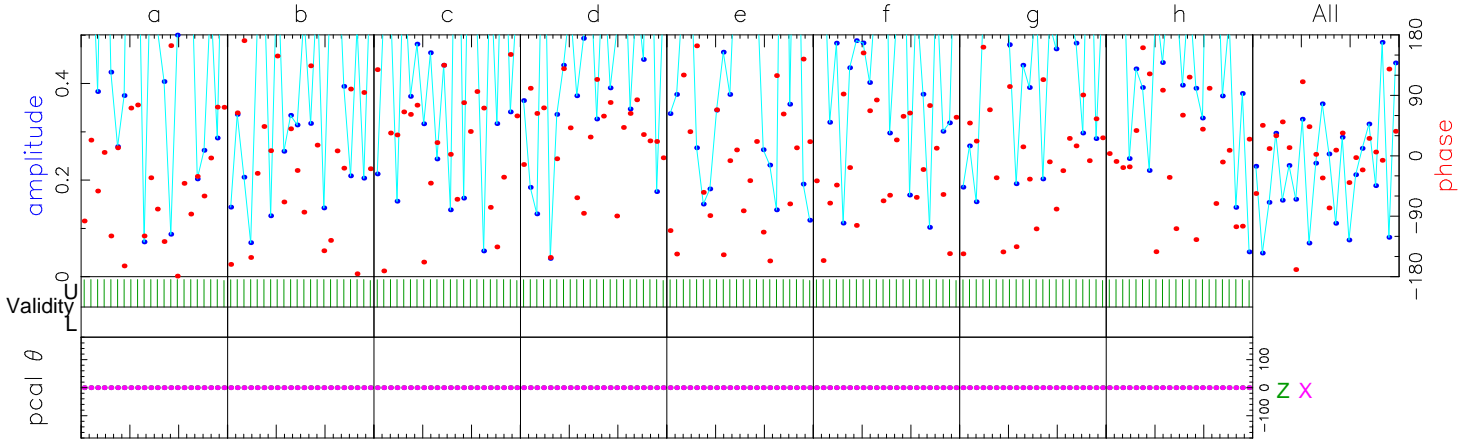


Fringe quality 0

SNR 5.7
 Int time 179.620
 Amp 0.167
 Phase 8.9
 PFD 6.7e-01
 Delays (us)
 SBD 0.938628
 MBD 0.006187
 Fringe rate (Hz)
 0.377848
 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
 2020:199:143714
 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
	-12.6	2.4	31.0	38.9	9.5	-16.2	0.7	-0.3		Phase
	0.2	0.1	0.1	0.3	0.1	0.2	0.2	0.1		Ampl.
	502.6	354.0	318.4	496.8	397.5	329.5	461.3	26.0		Sbd box
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		APs used
Z	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
X	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
Z	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
X	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks

Group delay (usec)(sbd) -1.84514553406E+03 Apriori delay (usec) -1.84608922152E+03 Resid mbdelay (usec) 6.18746E-03 +/- 1.9E-04
 Sband delay (usec) -1.84515059377E+03 Apriori clock (usec) -4.0883930E+01 Resid sbdelay (usec) 9.38628E-01 +/- 1.5E-03
 Phase delay (usec) -1.84608922123E+03 Apriori clockrate (us/s) -5.1200000E-07 Resid phdelay (usec) 2.85415E-07 +/- 6.4E-07
 Delay rate (us/s) -2.08824013641E-02 Apriori rate (us/s) -2.08867878076E-02 Resid rate (us/s) 4.38644E-06 +/- 6.2E-09
 Total phase (deg) -186.1 Apriori accel (us/s/s) 1.12046957721E-05 Resid phase (deg) 8.9 +/- 19.9

RMS Theor. Amplitude 0.167 +/- 0.029 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 60.4 46.7 Search (1024X32) 0.153 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 85.3 81.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 21.1 28.2 Inc. seg. avg. 0.181 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 36.3 49.2 Inc. frq. avg. 0.158 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 270.2 el 39.7 pa 36.7 X: az 261.7 el 46.4 pa 39.8 u,v (fr/asec) 152.234 776.291 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201b/v1/1234/No0058/ZX..18UHRL Output file: /Exps/c201b/v1/1234/No0058/ZX.W.213.18UHRL