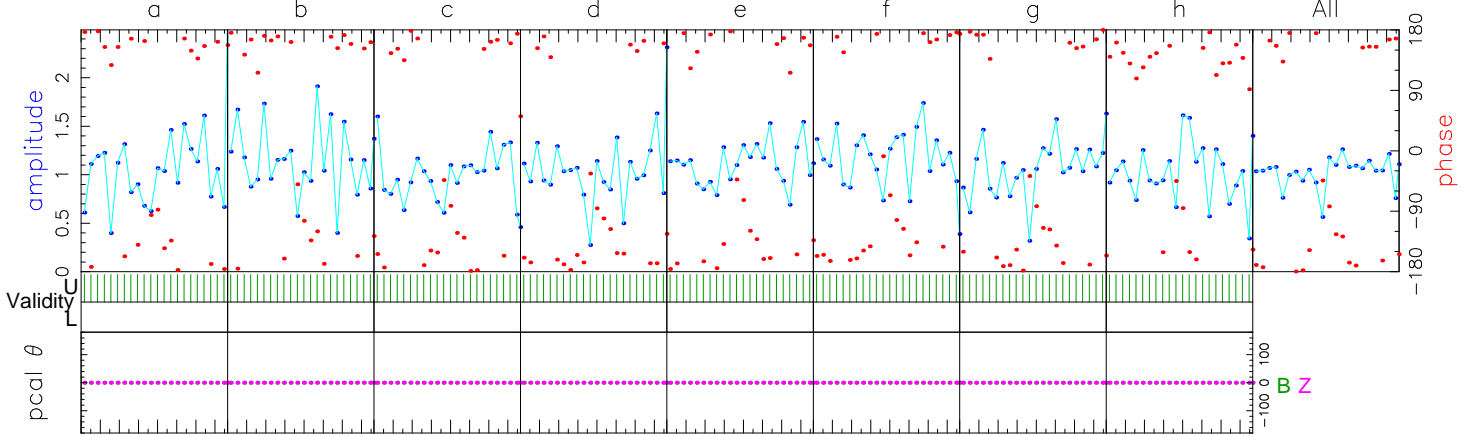


Fringe quality 7

SNR 47.6
Int time 439.164
Amp 0.831
Phase -174.4
PFD 0.0e+00
Delays (us)
SBD 0.000553
MBD 0.000488
Fringe rate (Hz) 0.000530
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

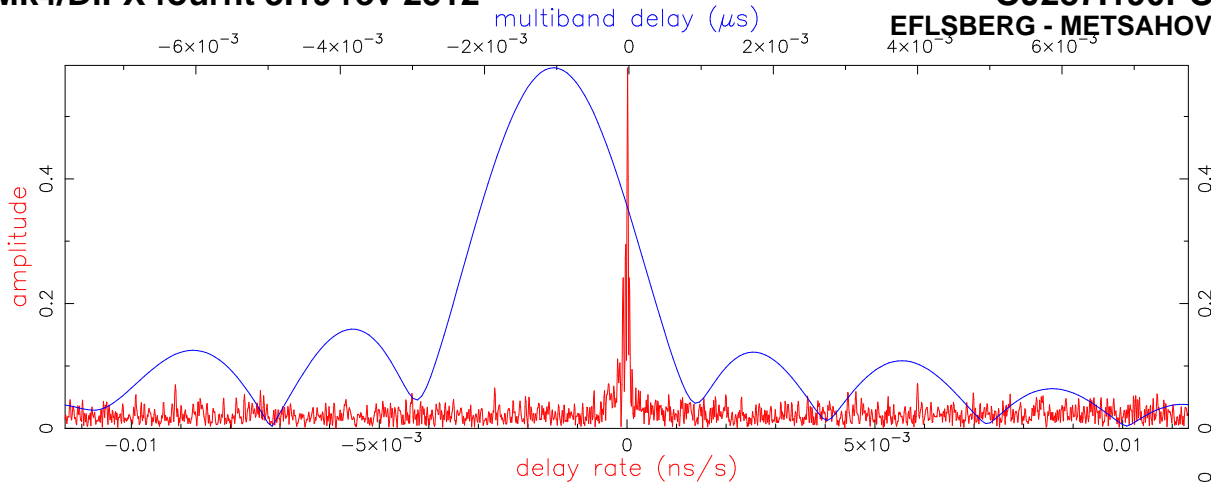
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210540
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



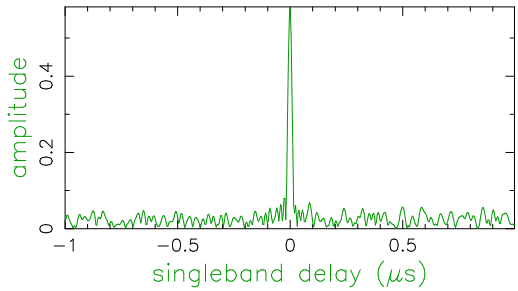
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-179.2	179.9	-173.1	-168.8	-169.3	-158.9	-168.0	155.7	Phase	-174.4
	0.9	0.9	0.8	0.8	0.8	0.9	0.9	0.7	Ampl.	0.8
	257.7	257.0	257.1	257.0	257.5	257.2	256.7	256.3	Sbd box	257.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.72281772206E+03		Apriori delay (usec)		3.72281723428E+03		Resid mbdelay (usec)		4.87777E-04	+/- 2.3E-05
Sband delay (usec)	3.72281778678E+03		Apriori clock (usec)		1.3158489E+01		Resid sbdelay (usec)		5.52500E-04	+/- 1.8E-04
Phase delay (usec)	3.72281722866E+03		Apriori clockrate (us/s)		-2.1600000E-07		Resid phdelay (usec)		-5.62402E-06	+/- 7.8E-08
Delay rate (us/s)	1.32945112732E-02		Apriori rate (us/s)		1.32945051237E-02		Resid rate (us/s)		6.14957E-09	+/- 3.1E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.34456626755E-05		Resid phase (deg)		-174.4	+/- 2.4

ph/seg (deg) 42.1 5.8 Search (2048X32) 0.778 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 29.5 10.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 14.7 3.4 Inc. seg. avg. 1.017 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 8.6 5.9 Inc. frq. avg. 0.847 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 239.9 el 46.7 pa 35.9 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -118.750 -1472.270 simultaneous interpolator

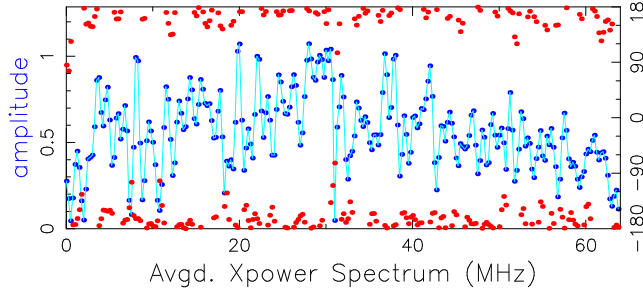


Fringe quality 8

SNR 33.3
Int time 439.164
Amp 0.582
Phase -178.2
PFD 0.0e+00
Delays (us)
SBD -0.001119
MBD -0.001069
Fringe rate (Hz)
0.000532
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

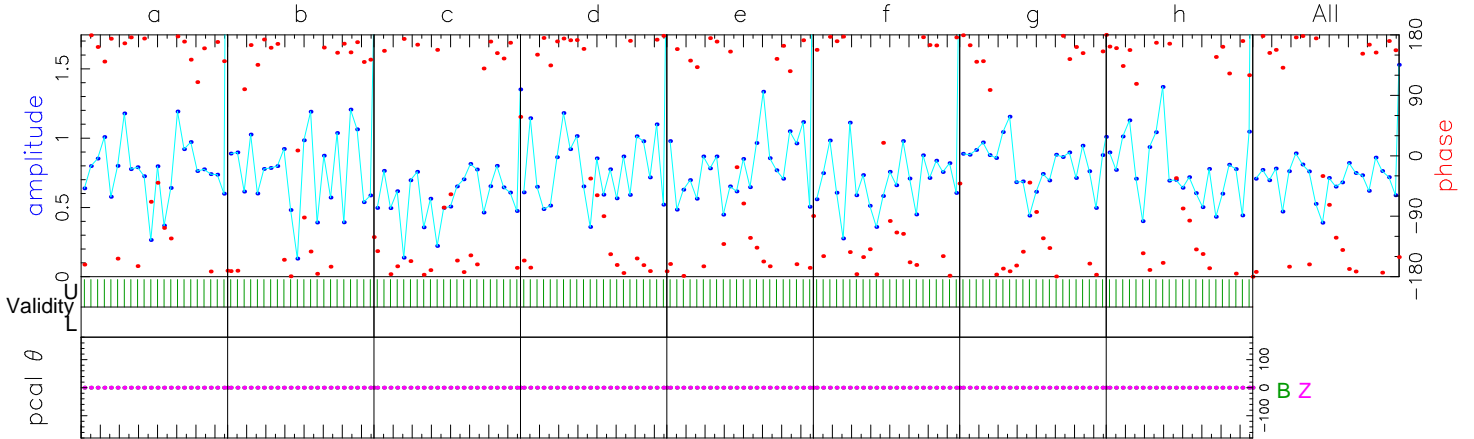


delay rate (ns/s)



Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210545
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

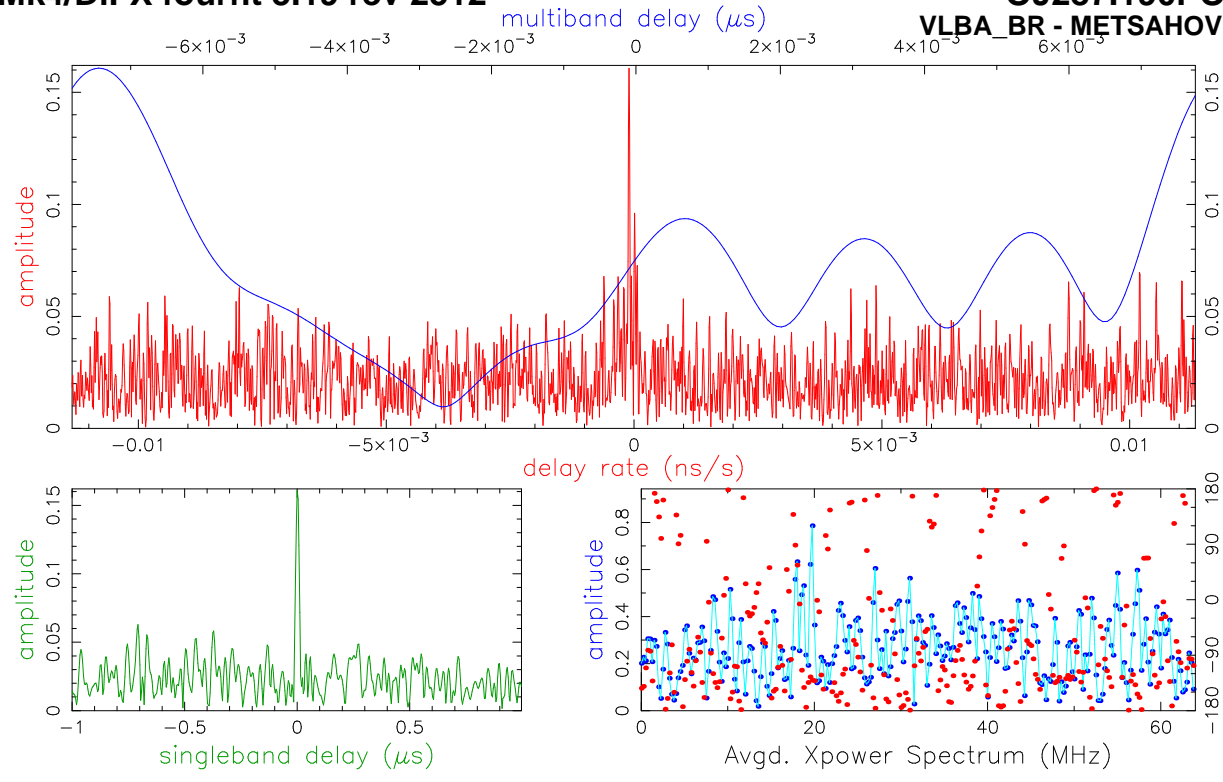
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	175.2	173.7	-174.6	-172.3	-174.9	-161.9	177.6	173.7	Phase	-178.2
	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.5	Ampl.	0.6
	256.6	256.7	257.2	256.8	256.9	256.9	256.6	255.5	Sbd box	256.7
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.72281616537E+03		Apriori delay (usec)		3.72281723428E+03		Resid mbdelay (usec)		-1.06891E-03	+/- 3.3E-05
Sband delay (usec)	3.72281611553E+03		Apriori clock (usec)		1.3158489E+01		Resid sbdelay (usec)		-1.11875E-03	+/- 2.6E-04
Phase delay (usec)	3.72281722854E+03		Apriori clockrate (us/s)		-2.1600000E-07		Resid phdelay (usec)		-5.74580E-06	+/- 1.1E-07
Delay rate (us/s)	1.32945112973E-02		Apriori rate (us/s)		1.32945051237E-02		Resid rate (us/s)		6.17366E-09	+/- 4.4E-10
Total phase (deg)	23.8		Apriori accel (us/s/s)		-2.34456626755E-05		Resid phase (deg)		-178.2	+/- 3.4

ph/seg (deg) 45.2 8.2 Search (2048X32) 0.540 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 29.7 14.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 9.3 4.9 Inc. seg. avg. 0.696 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 9.2 8.5 Inc. frq. avg. 0.581 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 239.9 el 46.7 pa 35.9 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -118.750 -1472.270 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/BZ..190POF Output file: /Exps/c201c/v1/1234/No0032/BZ.W.121.190POF

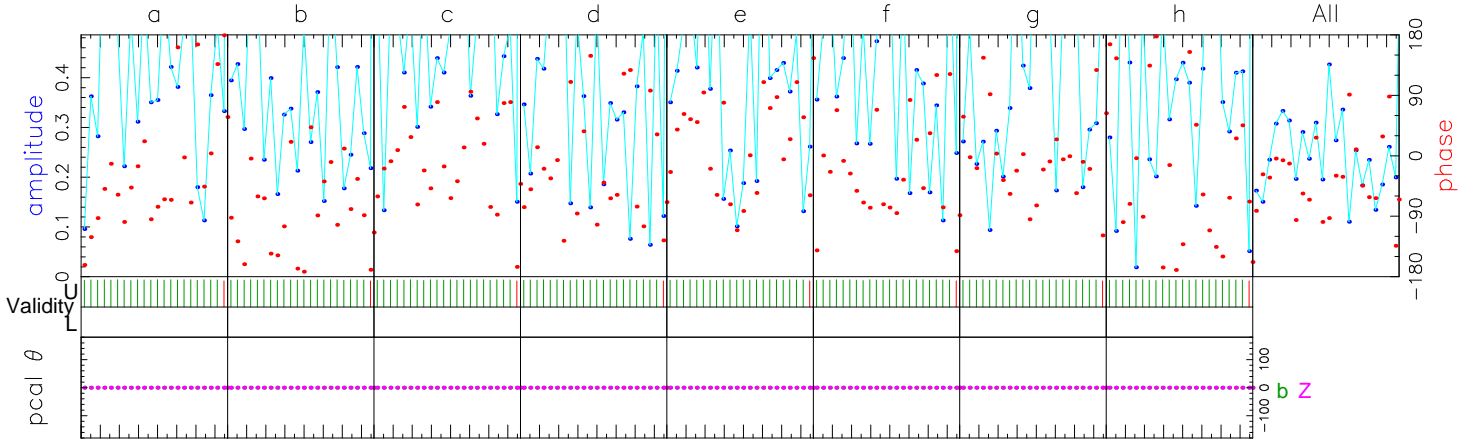


Fringe quality 9

SNR 9.2
 Int time 431.834
 Amp 0.162
 Phase -35.0
 PFD 1.3e-11
 Delays (us)
 SBD 0.001122
 MBD -0.007423
 Fringe rate (Hz)
 -0.009063
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210518
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



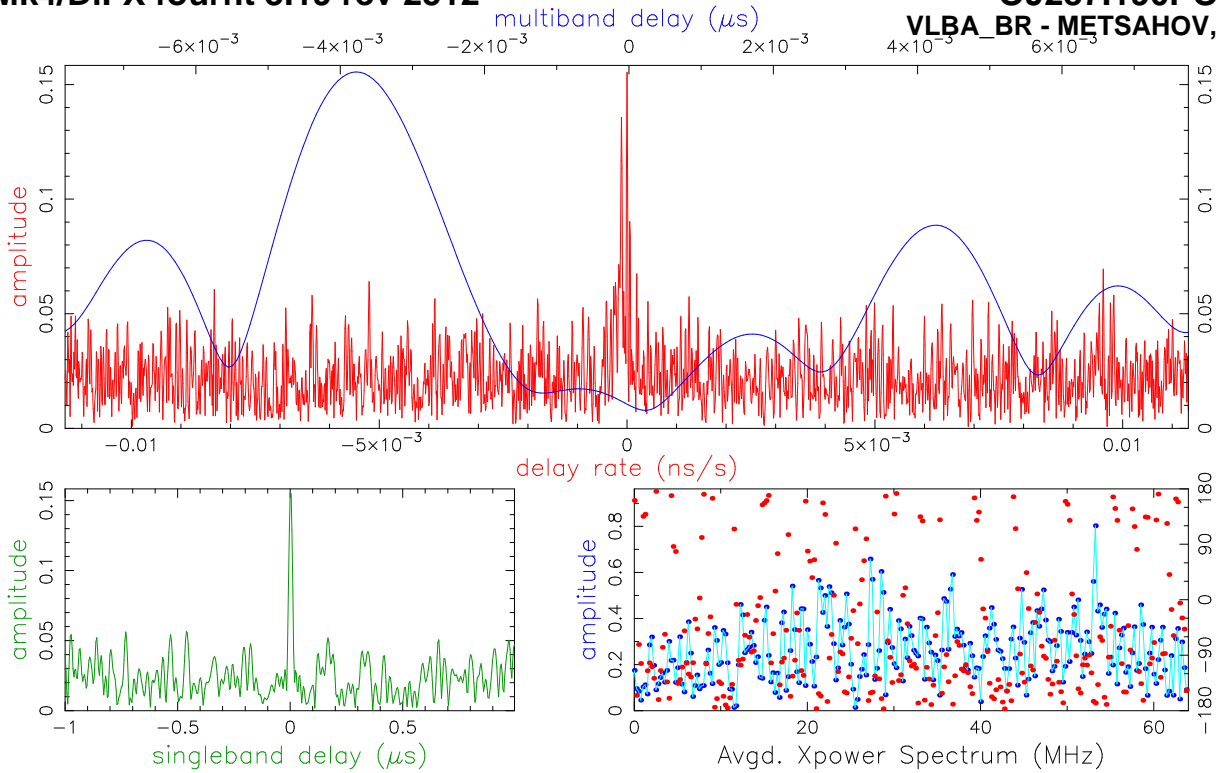
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-5.30598699648E+03				-5.30599519892E+03				-7.42255E-03	+/- 1.2E-04
Sband delay (usec)	-5.30599407717E+03				-1.2926095E+08				1.12175E-03	+/- 9.4E-04
Phase delay (usec)	-5.30599520005E+03				-5.8000005E-08				-1.12939E-06	+/- 4.0E-07
Delay rate (us/s)	1.58721813128E+00				1.58721823649E+00				-1.05210E-07	+/- 1.6E-09
Total phase (deg)			-191.7		2.34323026067E-05				-35.0	+/- 12.4
	RMS	Theor.	Amplitude	0.162 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			sb window (us)	-1.000 1.000
ph/seg (deg)	56.0	29.8	Search (2048X32)	0.153	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				mb window (us)	-0.008 0.008
amp/seg (%)	68.6	52.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled			dr window (ns/s)	-0.011 0.011
ph/frq (deg)	52.6	17.6	Inc. seg. avg.	0.214	Sample rate(MISamp/s): 128				ion window (TEC)	0.00 0.00
amp/frq (%)	41.3	30.7	Inc. frq. avg.	0.206	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite				

b: az 78.2 el 16.5 pa -44.1 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -9633.878 -304.206 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bZ..190POF Output file: /Exps/c201c/v1/1234/No0032/bZ.W.17.190POF

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, bZ
VLBA_BR - METSAHOV, fgroup W, pol RR

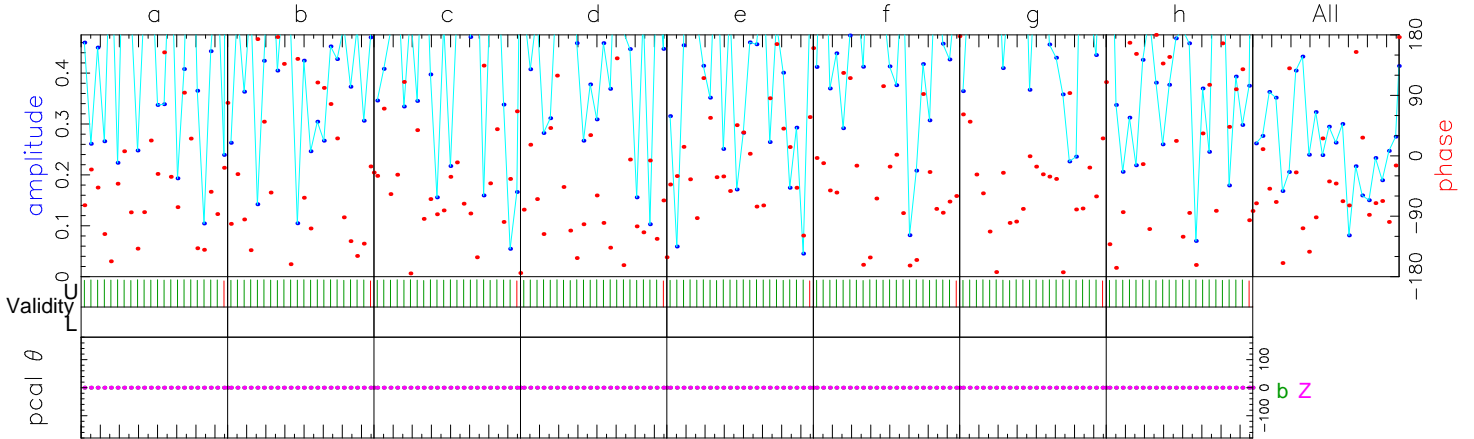


Fringe quality 9

SNR 9.0
Int time 431.835
Amp 0.158
Phase -62.8
PFD 8.7e-11
Delays (us)
SBD 0.001846
MBD -0.003729
Fringe rate (Hz) 0.000351
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210524
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



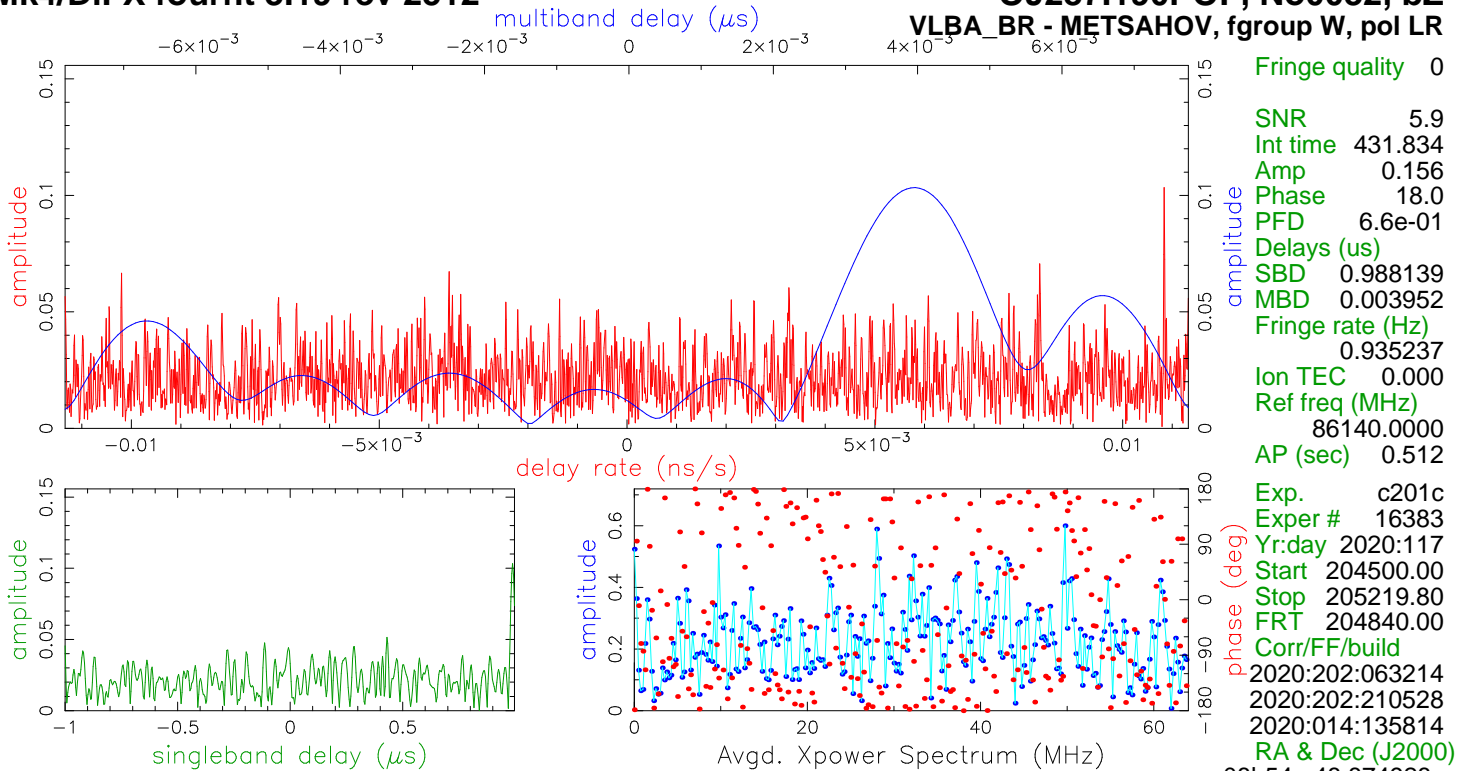
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-48.6	-111.5	-55.4	-98.0	-17.0	-53.6	-48.5	-146.0	Phase	-62.8
	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.1	Ampl.	0.2
	257.8	8.7	18.2	243.3	258.3	256.8	255.8	474.4	Sbd box	257.5
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.30599892755E+03		Apriori delay (usec)		-5.30599519892E+03		Resid mbdelay (usec)		-3.72862E-03	+/- 1.2E-04
Sband delay (usec)	-5.30599335242E+03		Apriori clock (usec)		-1.2926095E+08		Resid sbdelay (usec)		1.84650E-03	+/- 9.6E-04
Phase delay (usec)	-5.30599520095E+03		Apriori clockrate (us/s)		-5.8000005E-08		Resid phdelay (usec)		-2.02514E-06	+/- 4.1E-07
Delay rate (us/s)	1.58721824057E+00		Apriori rate (us/s)		1.58721823649E+00		Resid rate (us/s)		4.07846E-09	+/- 1.6E-09
Total phase (deg)			Apriori accel (us/s/s)		2.34323026067E-05		Resid phase (deg)		-62.8	+/- 12.7

ph/seg (deg) 66.1 30.5 Search (2048X32) 0.148 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 81.8 53.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 46.9 18.0 Inc. seg. avg. 0.226 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 41.4 31.4 Inc. frq. avg. 0.179 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 78.2 el 16.5 pa -44.1 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -9633.878 -304.206 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bZ..190POF Output file: /Exps/c201c/v1/1234/No0032/bZ.W.42.190POF

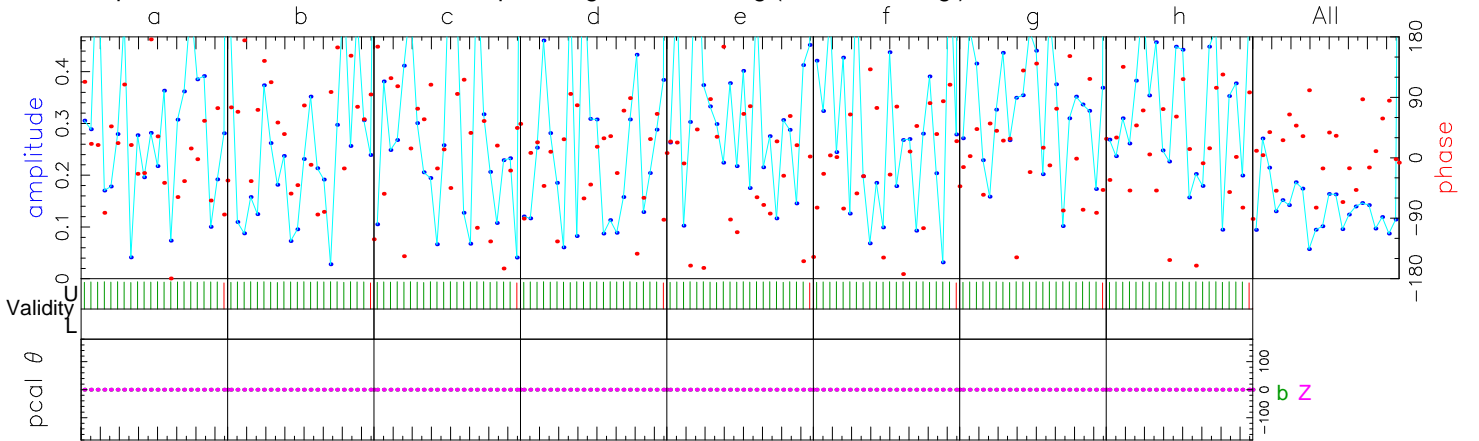
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, bZ

VLBA_BR - METSAHOV, fgroup W, pol LR



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

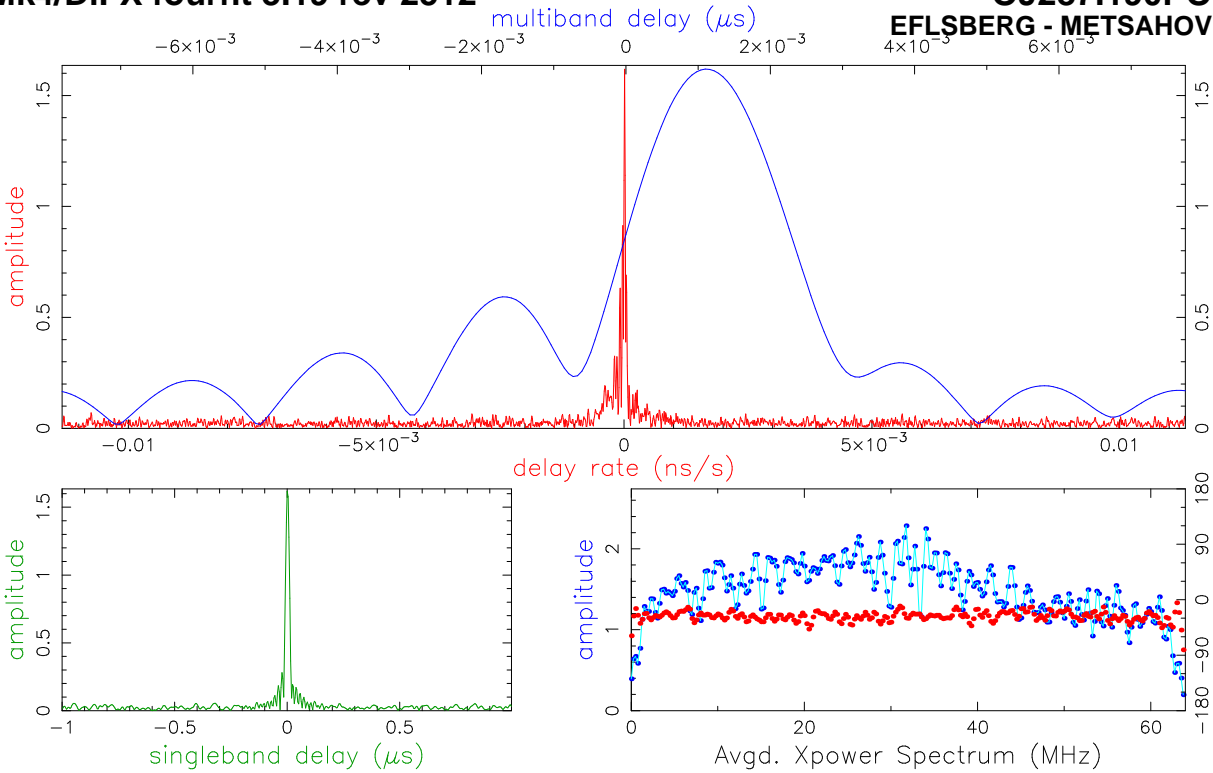


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-5.30500687238E+03		Apriori delay (usec)		-5.30599519892E+03		Resid mbdelay (usec)		3.95155E-03	+/- 1.8E-04
Sband delay (usec)	-5.30500706017E+03		Apriori clock (usec)		-1.2926095E+00		Resid sbdelay (usec)		9.88139E-01	+/- 1.5E-03
Phase delay (usec)	-5.30599519834E+03		Apriori clockrate (us/s)		-5.8000005E-08		Resid phdelay (usec)		5.79236E-07	+/- 6.3E-07
Delay rate (us/s)	1.58722909366E+00		Apriori rate (us/s)		1.58721823649E+00		Resid rate (us/s)		1.08572E-05	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		2.34323026067E-05		Resid phase (deg)		18.0	+/- 19.5

	RMS	Theor.	Amplitude	0.156 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	48.0	46.8	Search (2048X32)	0.098	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	63.6	81.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	25.7	27.6	Inc. seg. avg.	0.156	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	31.4	48.2	Inc. frq. avg.	0.150	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

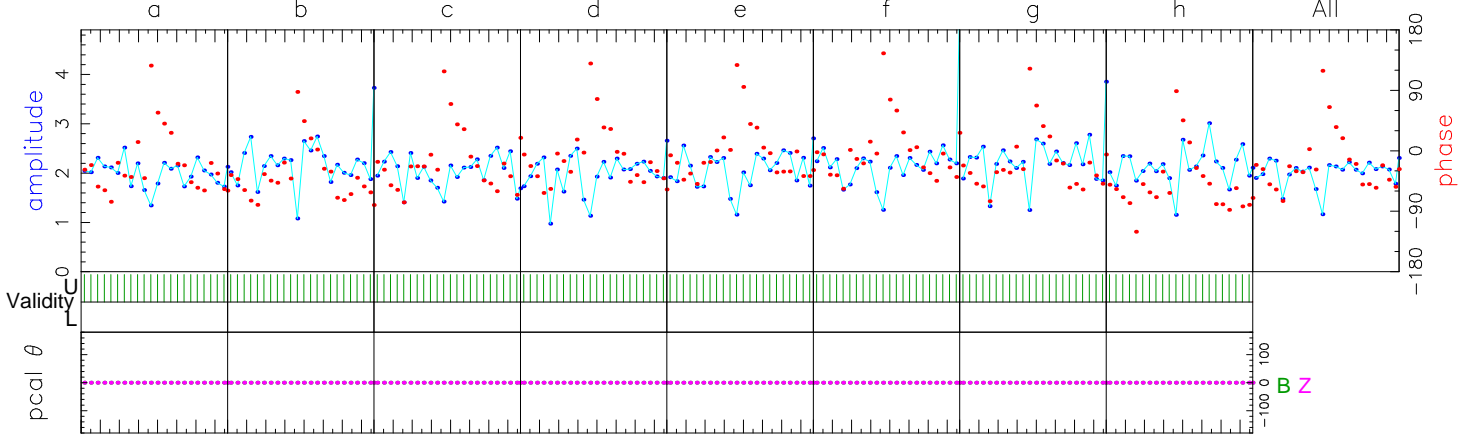
b: az 78.2 el 16.5 pa -44.1 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -9633.878 -304.206 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bZ..190POF Output file: /Exps/c201c/v1/1234/No0032/bZ.W.59.190POF



Fringe quality 5
SNR 93.7
Int time 439.164
Amp 1.636
Phase -25.2
PFD 0.0e+00
Delays (us)
SBD 0.001364
MBD 0.001149
Fringe rate (Hz) 0.000496
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210530
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

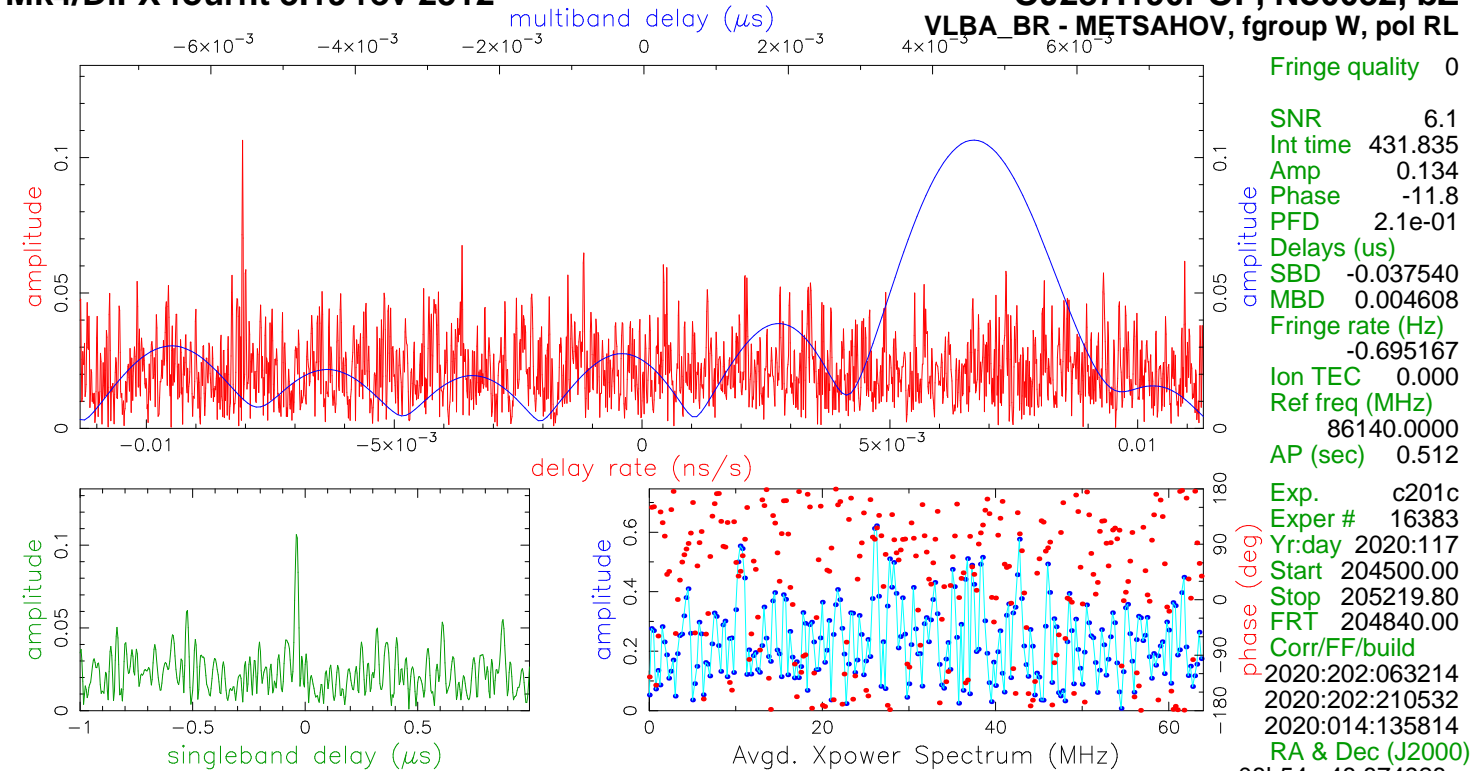


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-27.2	-38.1	-24.2	-14.5	-9.6	-8.0	-23.9	-55.7	Phase	-25.2
	1.6	1.8	1.6	1.6	1.7	1.7	1.8	1.7	Ampl.	1.7
	257.5	257.2	257.8	257.4	257.2	257.3	256.9	256.4	Sbd box	257.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

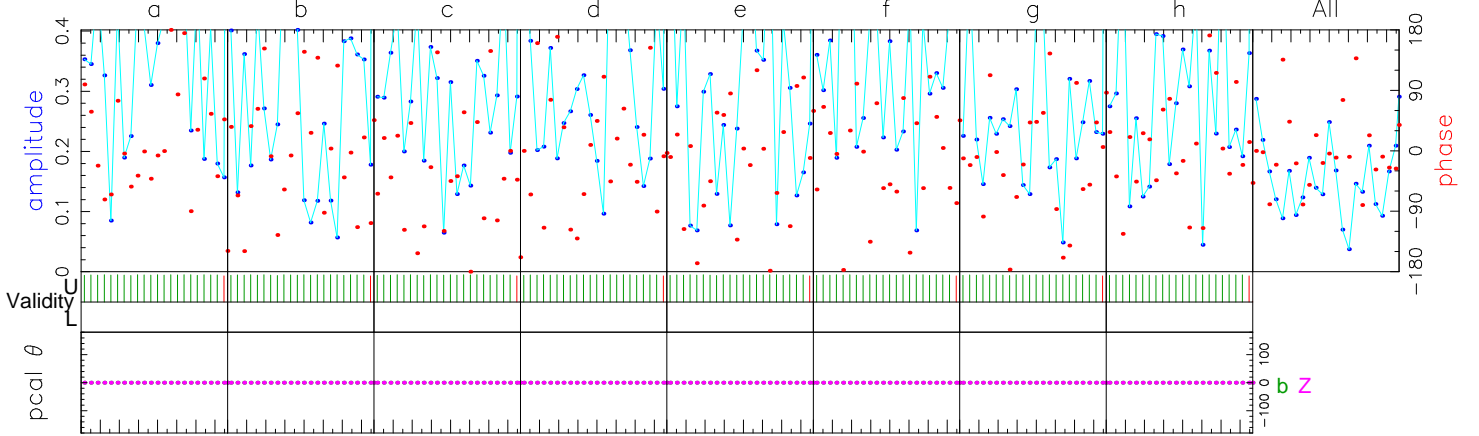
Group delay (usec)(sbd)	3.72281838318E+03	Apriori delay (usec)	3.72281723428E+03	Resid mbdelay (usec)	1.14890E-03	+/-	1.2E-05
Sband delay (usec)	3.72281859828E+03	Apriori clock (usec)	1.3158489E+01	Resid sbdelay (usec)	1.36400E-03	+/-	9.2E-05
Phase delay (usec)	3.72281723347E+03	Apriori clockrate (us/s)	-2.1600000E-07	Resid phdelay (usec)	-8.11609E-07	+/-	3.9E-08
Delay rate (us/s)	1.32945108764E-02	Apriori rate (us/s)	1.32945051237E-02	Resid rate (us/s)	5.75278E-09	+/-	1.6E-10
Total phase (deg)	176.8	Apriori accel (us/s/s)	-2.34456626755E-05	Resid phase (deg)	-25.2	+/-	1.2

ph/seg (deg)	44.1	RMS	2.9	Theor.	1.636 +/- 0.017	Search (2048X32)	1.488	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	27.2	Interp.	0.000	Inc. seg. avg.	1.994	Inc. frq. avg.	1.673	PCal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	17.1	Inc. seg. avg.	1.994	Inc. frq. avg.	1.673	Sample rate(MISamp/s): 128		Bits/sample: 2x2		dr window (ns/s)	-0.011	0.011
amp/frq (%)	5.2	Inc. frq. avg.	1.673			Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 239.9 el 46.7 pa 35.9 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -118.750 -1472.270 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/BZ..190POF Output file: /Exps/c201c/v1/1234/No0032/BZ.W.70.190POF



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



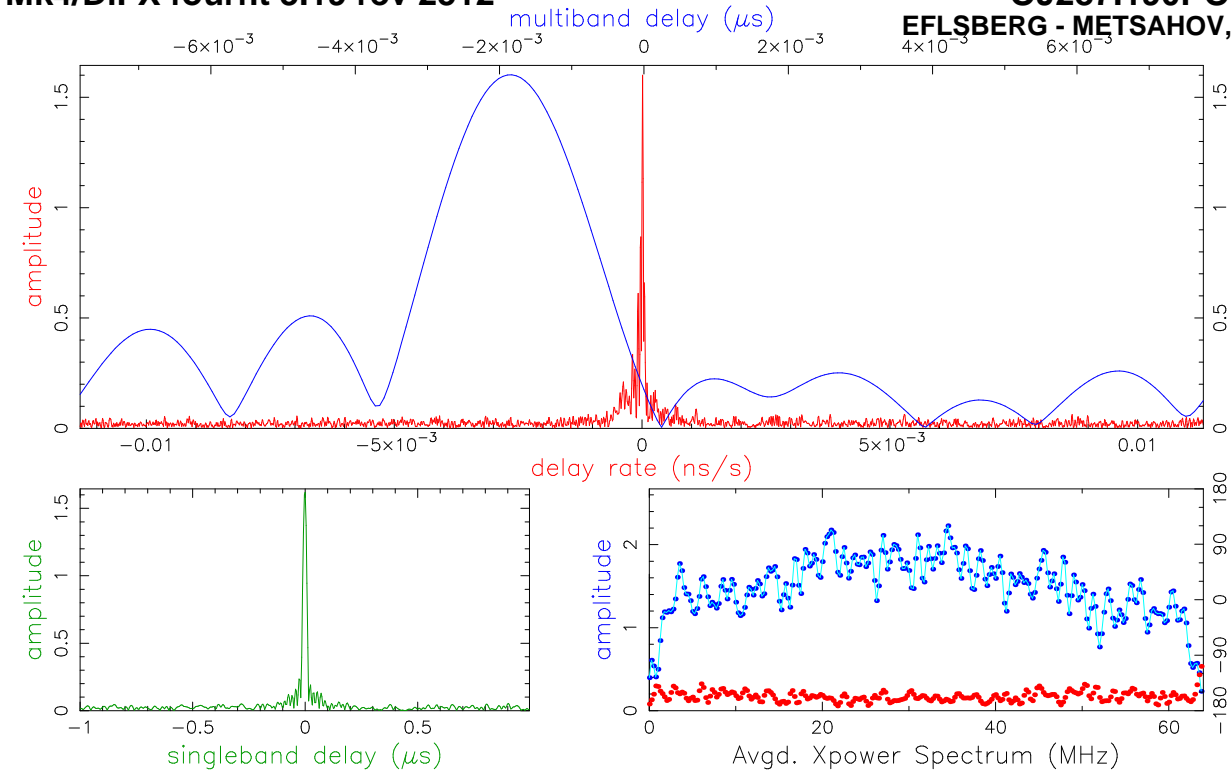
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
15.7	-13.5	-42.2	-19.4	-14.6	-11.6	-7.1	-8.4	-8.4	Phase	-11.8
0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	Ampl.	0.1
123.6	124.1	445.5	365.1	286.0	237.9	371.2	32.7	32.7	Sbd box	247.4
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-5.30603746636E+03	Apriori delay (usec)	-5.30599519892E+03	Resid mbdelay (usec)	4.60756E-03	+/-	1.8E-04
Sband delay (usec)	-5.30603273867E+03	Apriori clock (usec)	-1.2926095E+08	Resid sbdelay (usec)	-3.75398E-02	+/-	1.4E-03
Phase delay (usec)	-5.30599519930E+03	Apriori clockrate (us/s)	-5.8000005E-08	Resid phdelay (usec)	-3.79375E-07	+/-	6.0E-07
Delay rate (us/s)	1.58721016629E+00	Apriori rate (us/s)	1.58721823649E+00	Resid rate (us/s)	-8.07020E-06	+/-	2.4E-09
Total phase (deg)	-168.5	Apriori accel (us/s/s)	2.34323026067E-05	Resid phase (deg)	-11.8	+/-	18.7

ph/seg (deg)	58.0	Theor.	44.8	Amplitude	0.134 +/- 0.022	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	67.8	Search (2048X32)	0.105	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	17.2	Inc. seg. avg.	0.144	Inc. frq. avg.	0.124	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	16.4	Inc. frq. avg.	0.124			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

b: az 78.2 el 16.5 pa -44.1 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -9633.878 -304.206 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bZ..190POF Output file: /Exps/c201c/v1/1234/No0032/bZ.W.76.190POF

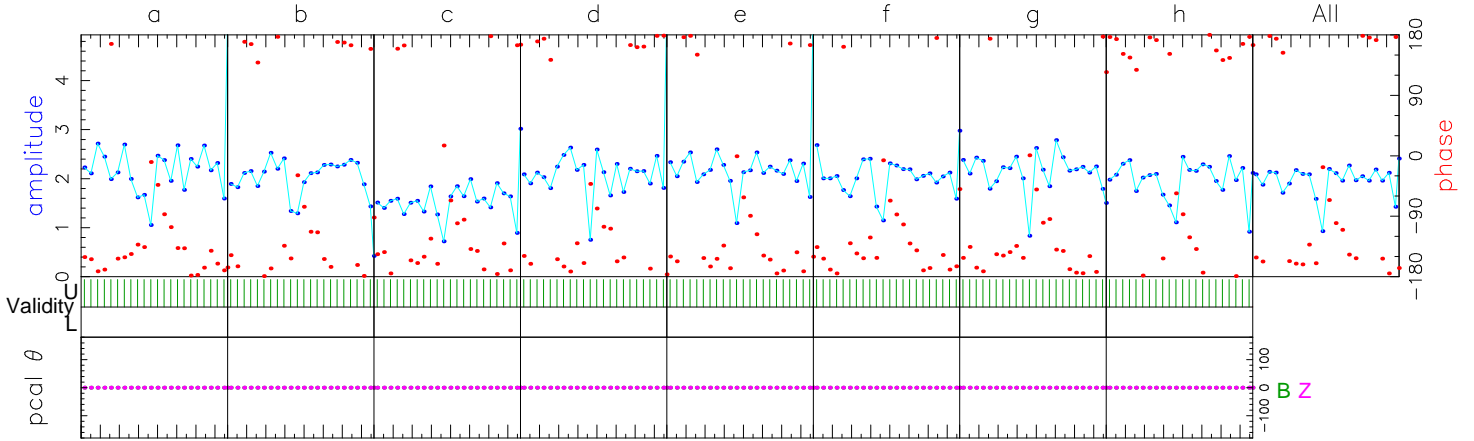


Fringe quality 5

SNR 94.3
Int time 439.164
Amp 1.645
Phase -157.0
PFD 0.0e+00
Delays (us)
SBD -0.001690
MBD -0.001793
Fringe rate (Hz) 0.000515
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210534
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

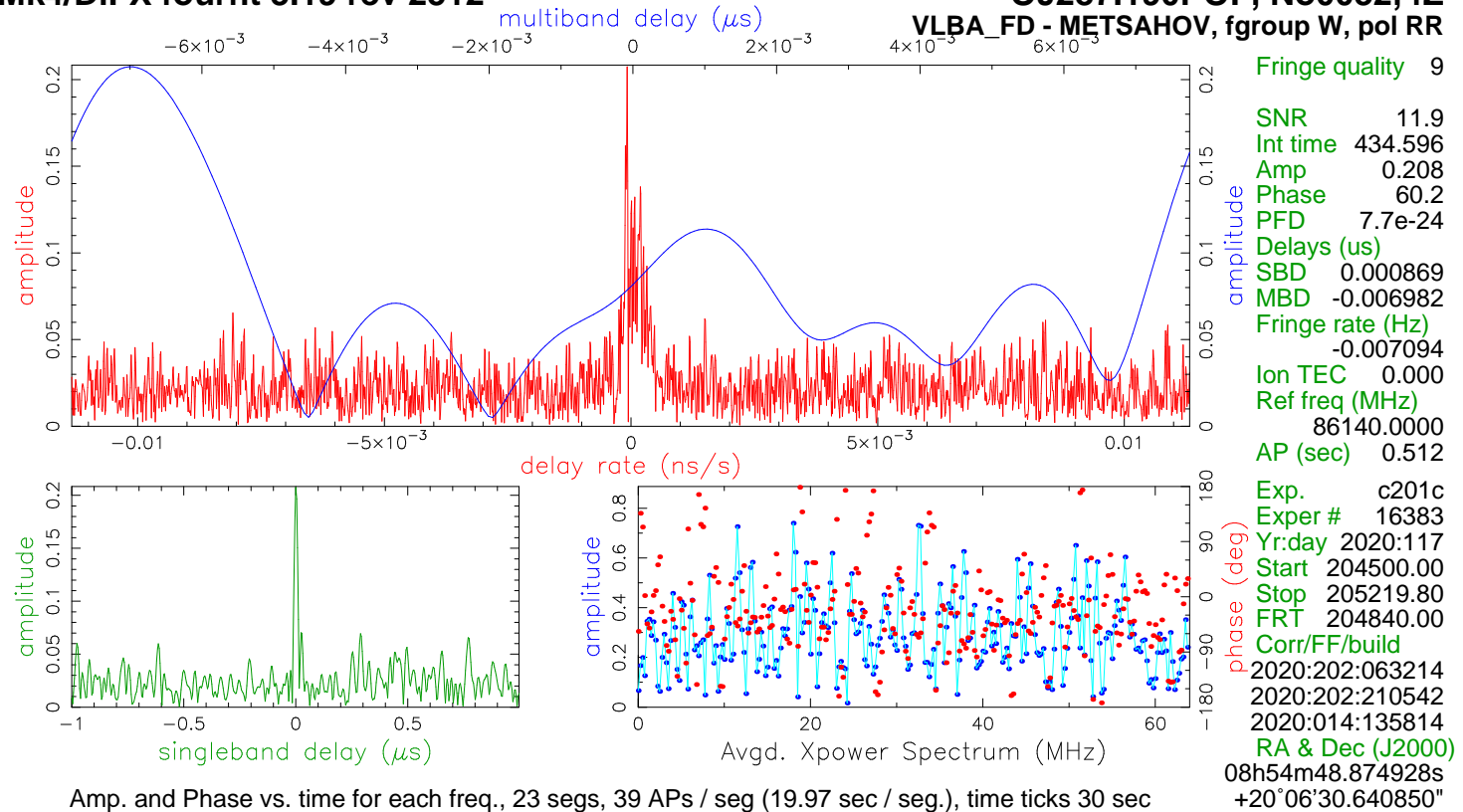


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-147.9	-165.8	-150.0	-162.5	-156.7	-144.1	-147.7	177.8	Phase	-157.0
	1.8	1.6	1.2	1.7	1.7	1.6	1.8	1.6	Ampl.	1.6
	256.4	256.7	256.9	256.2	256.6	256.7	256.5	255.9	Sbd box	256.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.72281544097E+03		Apriori delay (usec)		3.72281723428E+03		Resid mbdelay (usec)		-1.79332E-03	+/- 1.2E-05
Sband delay (usec)	3.72281554378E+03		Apriori clock (usec)		1.3158489E+01		Resid sbdelay (usec)		-1.69050E-03	+/- 9.1E-05
Phase delay (usec)	3.72281722922E+03		Apriori clockrate (us/s)		-2.1600000E-07		Resid phdelay (usec)		-5.06317E-06	+/- 3.9E-08
Delay rate (us/s)	1.32945110968E-02		Apriori rate (us/s)		1.32945051237E-02		Resid rate (us/s)		5.97314E-09	+/- 1.5E-10
Total phase (deg)	45.0		Apriori accel (us/s/s)		-2.34456626755E-05		Resid phase (deg)		-157.0	+/- 1.2

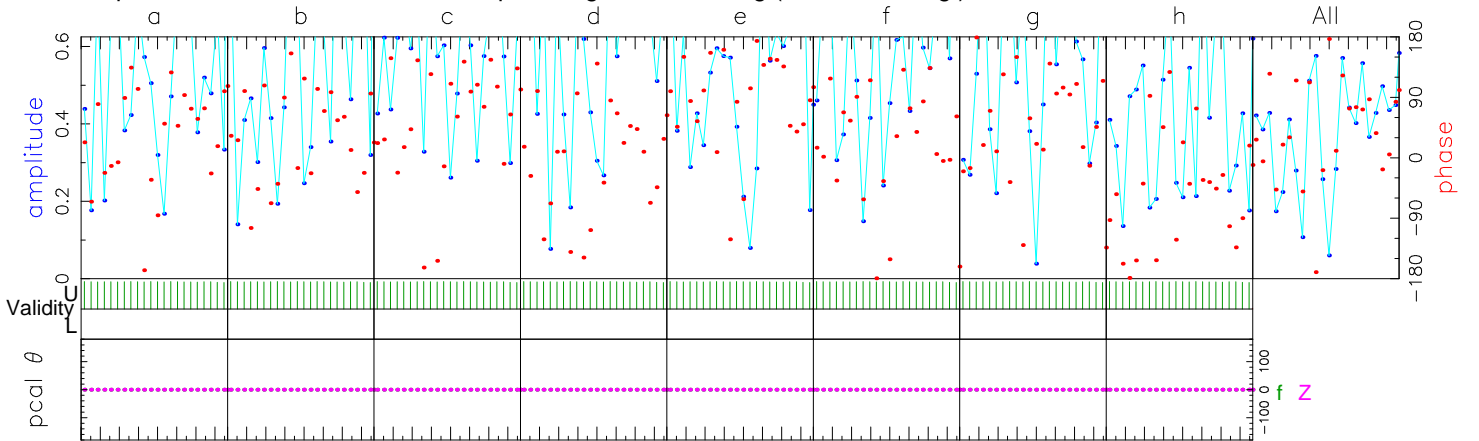
RMS Theor. Amplitude 1.645 +/- 0.017
Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

ph/seg (deg) 43.4 2.9 Search (2048X32) 1.485
amp/seg (%) 26.1 5.1 Interp. 0.000
ph/frq (deg) 13.7 1.7 Inc. seg. avg. 1.950
amp/frq (%) 10.3 3.0 Inc. frq. avg. 1.634

B: az 239.9 el 46.7 pa 35.9 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -118.750 -1472.270 simultaneous interpolator



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
53.8	42.8	91.4	18.7	101.0	56.0	83.7	-55.2	-55.2	Phase	60.2
0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	Ampl.	0.3
257.1	257.3	257.1	257.1	256.6	256.2	256.6	256.6	255.2	Sbd box	257.2
U/L 859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.13618354892E+03		Apriori delay (usec)	-2.13619219208E+03	Resid mbdelay (usec)	-6.98184E-03	+/-	9.1E-05		
Sband delay (usec)	-2.13619132258E+03		Apriori clock (usec)	4.0260115E+00	Resid sbdelay (usec)	8.69500E-04	+/-	7.3E-04		
Phase delay (usec)	-2.13619219014E+03		Apriori clockrate (us/s)	9.3000003E-08	Resid phdelay (usec)	1.94170E-06	+/-	3.1E-07		
Delay rate (us/s)	1.79793316690E+00		Apriori rate (us/s)	1.79793324925E+00	Resid rate (us/s)	-8.23535E-08	+/-	1.2E-09		
Total phase (deg)		-93.0	Apriori accel (us/s/s)	-2.47626804873E-06	Resid phase (deg)	60.2	+/-	9.6		

ph/seg (deg) 66.1 23.1 Amplitude 0.208 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

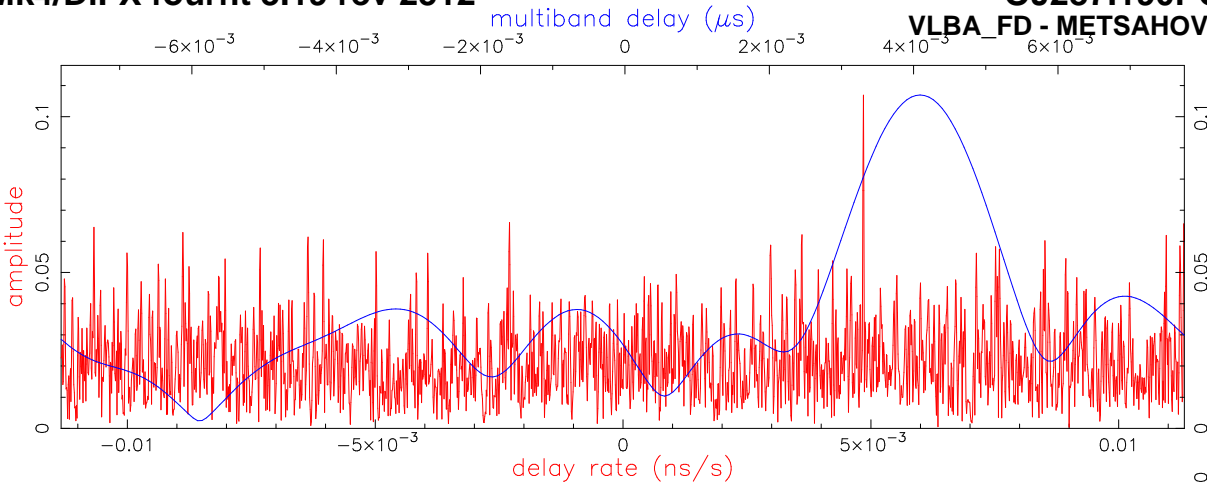
amp/seg (%) 105.0 40.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 55.7 13.6 Inc. seg. avg. 0.347 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 34.1 23.8 Inc. frq. avg. 0.256 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

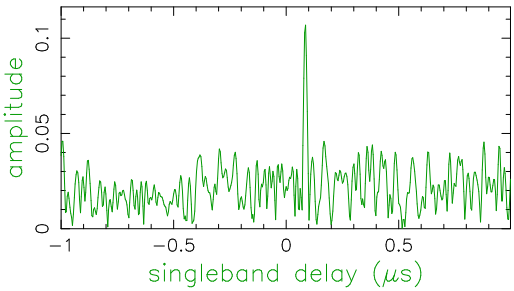
f: az 80.8 el 25.4 pa -64.7 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -10958.315 -2995.651 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fZ..190POF Output file: /Exps/c201c/v1/1234/No0032/fZ.W.108.190POF

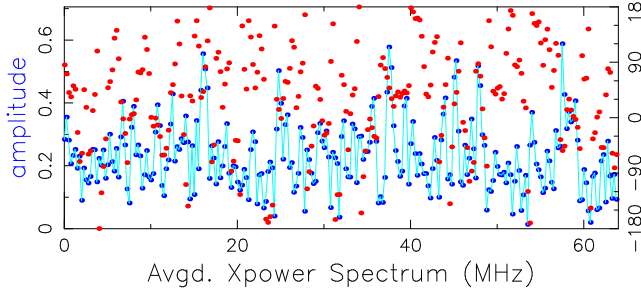


Fringe quality 0

SNR 6.2
 Int time 434.596
 Amp 0.116
 Phase -107.8
 PFD 1.9e-01
 Delays (us)
 SBD 0.084740
 MBD 0.004048
 Fringe rate (Hz)
 0.417890
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

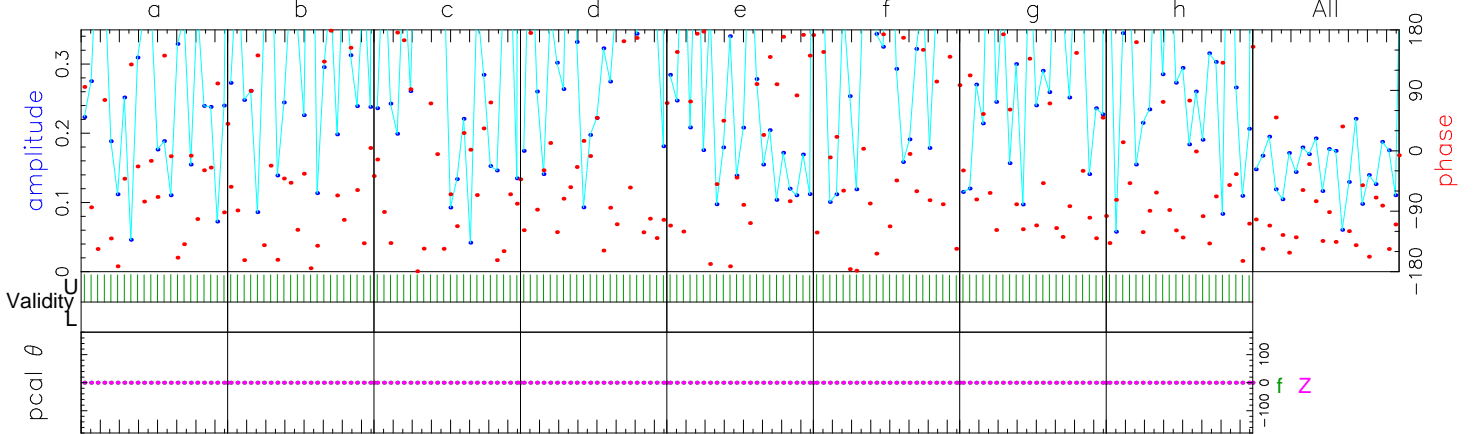


delay rate (ns/s)



Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210545
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

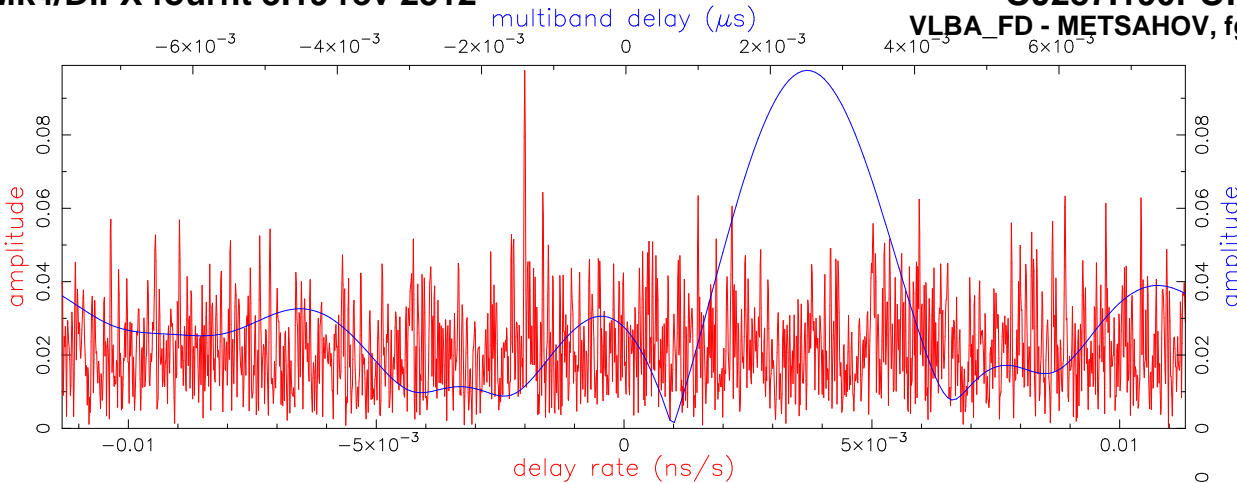


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-79.7	-115.1	-115.0	-96.3	-167.5	-127.9	-104.6	-78.8	Phase	-107.8
	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	Ampl.	0.1
	299.4	342.1	194.7	26.1	290.8	346.6	107.3	116.1	Sbd box	278.7
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

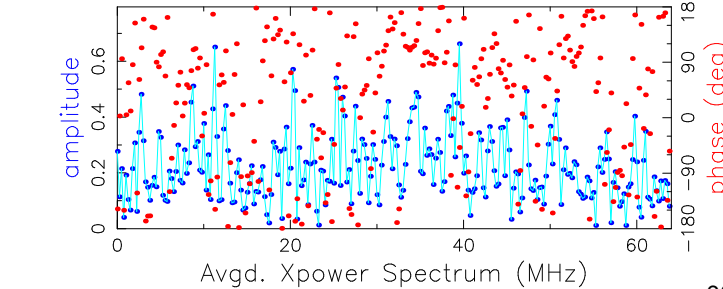
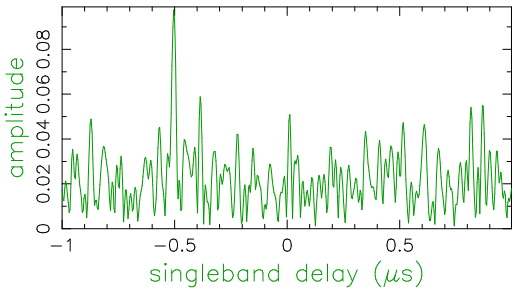
Group delay (usec)(sbd)	-2.13611001937E+03	Apriori delay (usec)	-2.13619219208E+03	Resid mbdelay (usec)	4.04771E-03	+/-	1.8E-04
Sband delay (usec)	-2.13610745183E+03	Apriori clock (usec)	4.0260115E+08	Resid sbdelay (usec)	8.47403E-02	+/-	1.4E-03
Phase delay (usec)	-2.13619219555E+03	Apriori clockrate (us/s)	9.3000003E-08	Resid phdelay (usec)	-3.47645E-06	+/-	6.0E-07
Delay rate (us/s)	1.79793810055E+00	Apriori rate (us/s)	1.79793324925E+00	Resid rate (us/s)	4.85129E-06	+/-	2.4E-09
Total phase (deg)	-261.0	Apriori accel (us/s/s)	-2.47626804873E-06	Resid phase (deg)	-107.8	+/-	18.6

ph/seg (deg)	57.8	Theor.	44.7	Amplitude	0.116 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	53.4		78.0	Search (2048X32)	0.104	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	31.2		26.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	30.8		46.0	Inc. seg. avg.	0.125	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.116	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

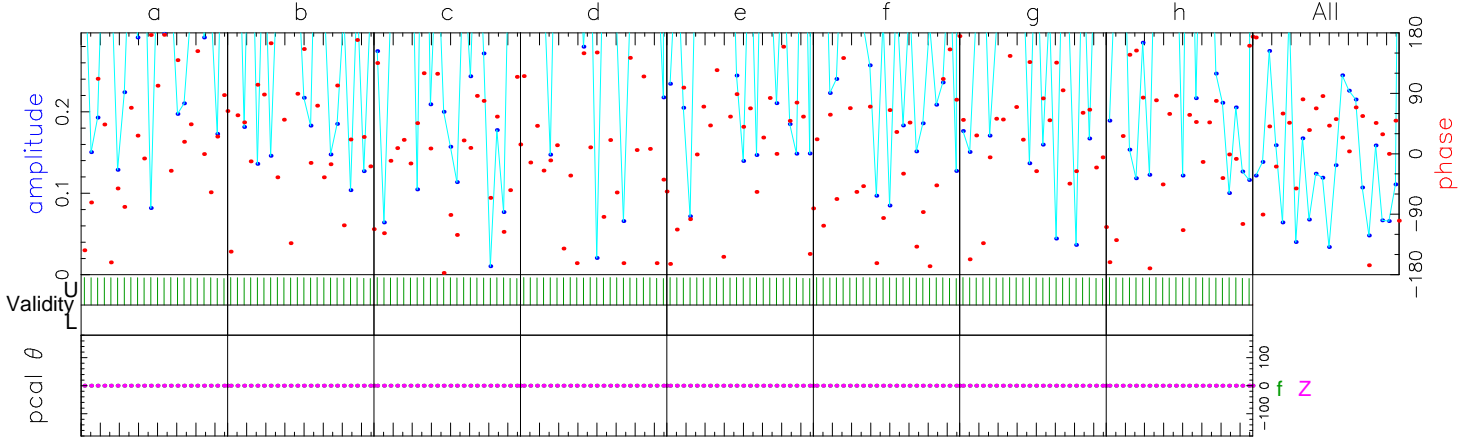
f: az 80.8 el 25.4 pa -64.7 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -10958.315 -2995.651 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fZ..190POF Output file: /Exps/c201c/v1/1234/No0032/fZ.W.125.190POF



Fringe quality 0
SNR 5.6
Int time 434.596
Amp 0.099
Phase 41.7
PFD 1.0e+00
Delays (us)
SBD -0.503407
MBD 0.002530
Fringe rate (Hz)
-0.172692
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210549
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

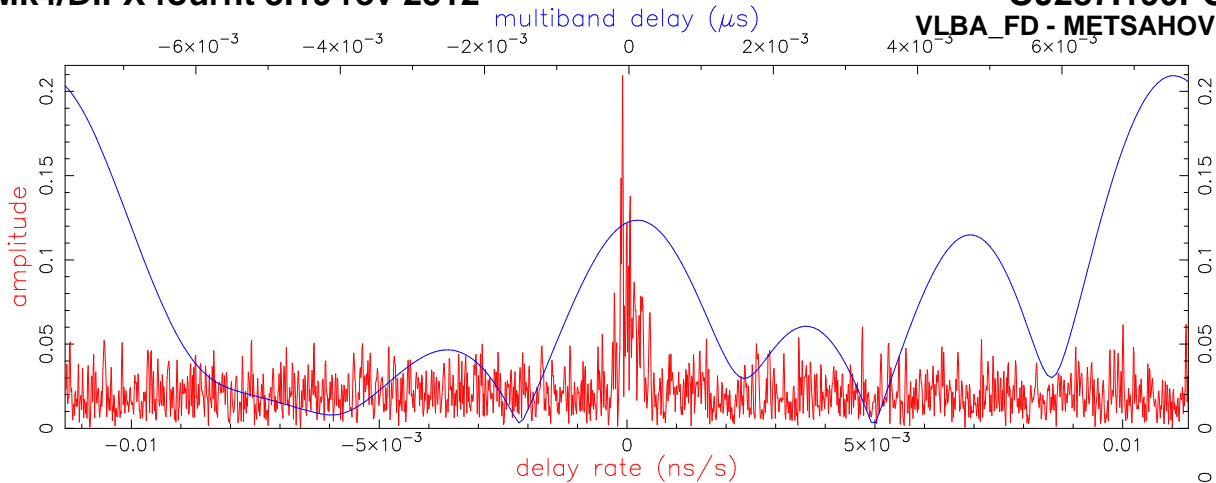


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-2.13668966179E+03	Apriori delay (usec)	-2.13619219208E+03	Resid mbdelay (usec)	2.53028E-03	+/-	1.9E-04
Sband delay (usec)	-2.13669559908E+03	Apriori clock (usec)	4.0260115E+00	Resid sbdelay (usec)	-5.03407E-01	+/-	1.5E-03
Phase delay (usec)	-2.13619219073E+03	Apriori clockrate (us/s)	9.3000003E-08	Resid phdelay (usec)	1.34454E-06	+/-	6.6E-07
Delay rate (us/s)	1.79793124447E+00	Apriori rate (us/s)	1.79793324925E+00	Resid rate (us/s)	-2.00478E-06	+/-	2.6E-09
Total phase (deg)	-111.5	Apriori accel (us/s/s)	-2.47626804873E-06	Resid phase (deg)	41.7	+/-	20.6

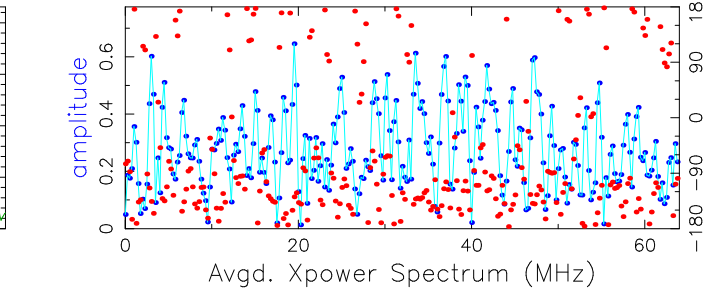
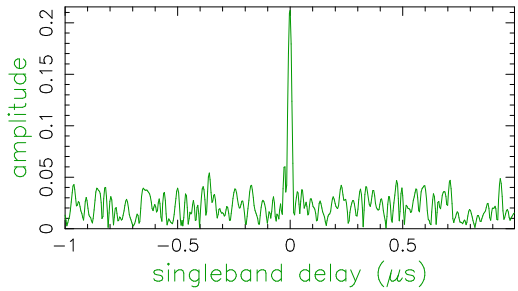
ph/seg (deg)	60.4	RMS	49.3	Theor.	60.4	Amplitude	0.099 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	90.5	Search (2048X32)	0.097	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	0.000	SampCntNorm: enabled	sb window (us)	-1.000 1.000
ph/frq (deg)	23.8	Inc. seg. avg.	0.102	Inc. frq. avg.	0.093	Bits/sample: 2x2	0.102	Sample rate(MISamp/s): 128	mb window (us)	-0.008 0.008
amp/frq (%)	40.1	Inc. frq. avg.	0.093	Data rate(Mb/s): 2048	0.093	nlags: 256	0.093	t_cohere infinite	dr window (ns/s)	-0.011 0.011

f: az 80.8 el 25.4 pa -64.7 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -10958.315 -2995.651 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fZ..190POF Output file: /Exps/c201c/v1/1234/No0032/fZ.W.141.190POF



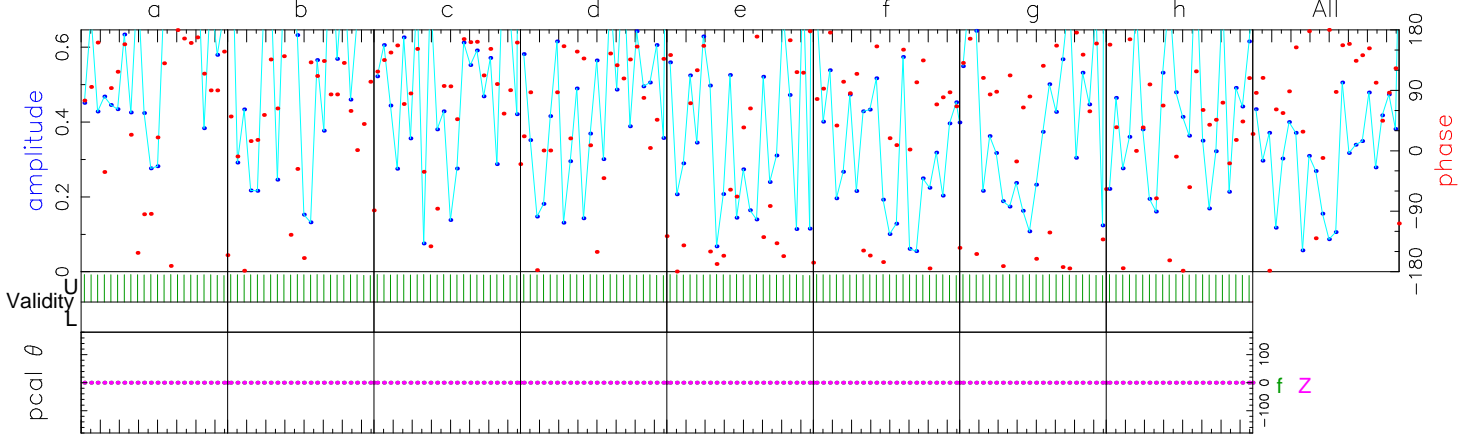
Fringe quality 9

SNR 12.3
 Int time 434.596
 Amp 0.215
 Phase 123.3
 PFD 5.9e-26
 Delays (us)
 SBD -0.001685
 MBD 0.007585
 Fringe rate (Hz)
 -0.007241
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210536
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

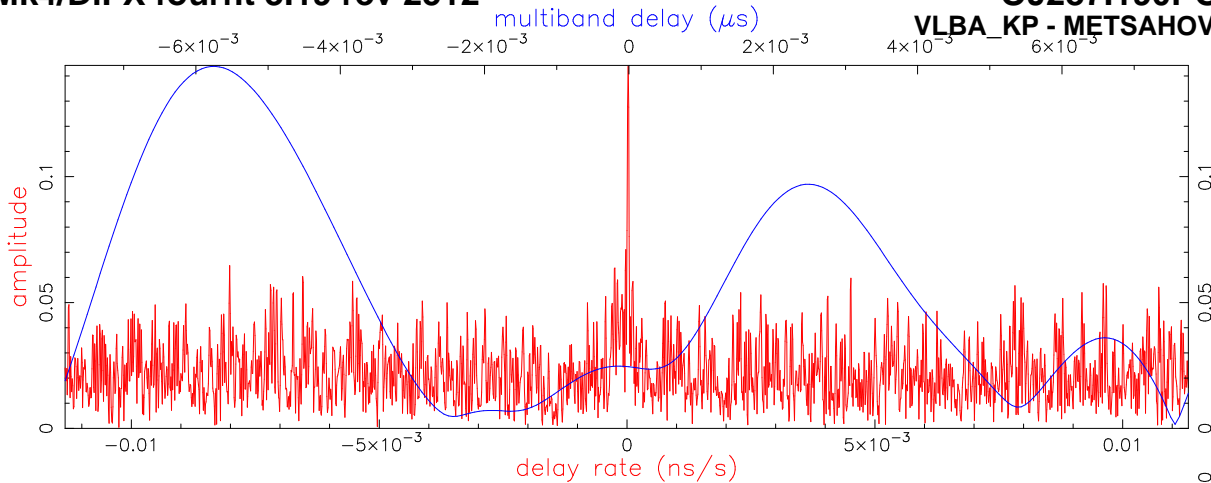


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-2.13620023235E+03	Apriori delay (usec)	-2.13619219208E+03	Resid mbdelay (usec)	7.58473E-03	+/-	8.8E-05
Sband delay (usec)	-2.13619387733E+03	Apriori clock (usec)	4.0260115E+00	Resid sbdelay (usec)	-1.68525E-03	+/-	7.0E-04
Phase delay (usec)	-2.13619218810E+03	Apriori clockrate (us/s)	9.3000003E-08	Resid phdelay (usec)	3.97517E-06	+/-	3.0E-07
Delay rate (us/s)	1.79793316519E+00	Apriori rate (us/s)	1.79793324925E+00	Resid rate (us/s)	-8.40647E-08	+/-	1.2E-09
Total phase (deg)	-29.9	Apriori accel (us/s/s)	-2.47626804873E-06	Resid phase (deg)	123.3	+/-	9.3

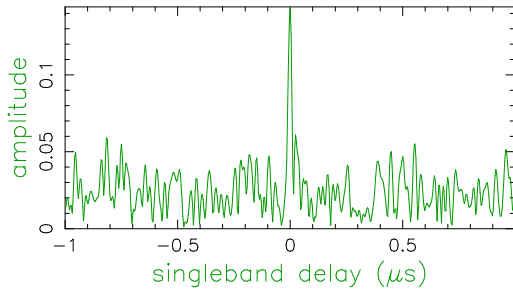
ph/seg (deg)	57.8	Theor.	22.4	Amplitude	0.215 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	74.7	Search (2048X32)	0.194	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	40.2	Inc. seg. avg.	0.288	Inc. frq. avg.	0.241	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	33.1	Inc. frq. avg.	0.241			Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 80.8 el 25.4 pa -64.7 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -10958.315 -2995.651 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fZ..190POF Output file: /Exps/c201c/v1/1234/No0032/fZ.W.86.190POF

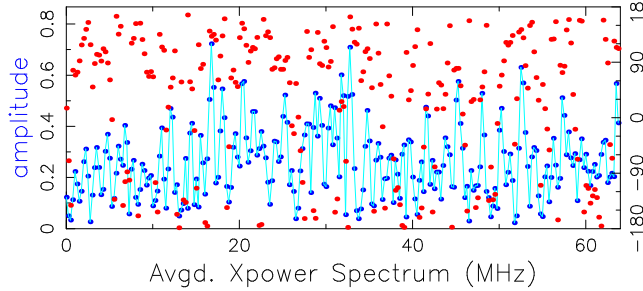


Fringe quality 9

SNR 8.2
 Int time 430.854
 Amp 0.144
 Phase 171.9
 PFD 9.4e-08
 Delays (us)
 SBD -0.000704
 MBD -0.005790
 Fringe rate (Hz) 0.001975
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

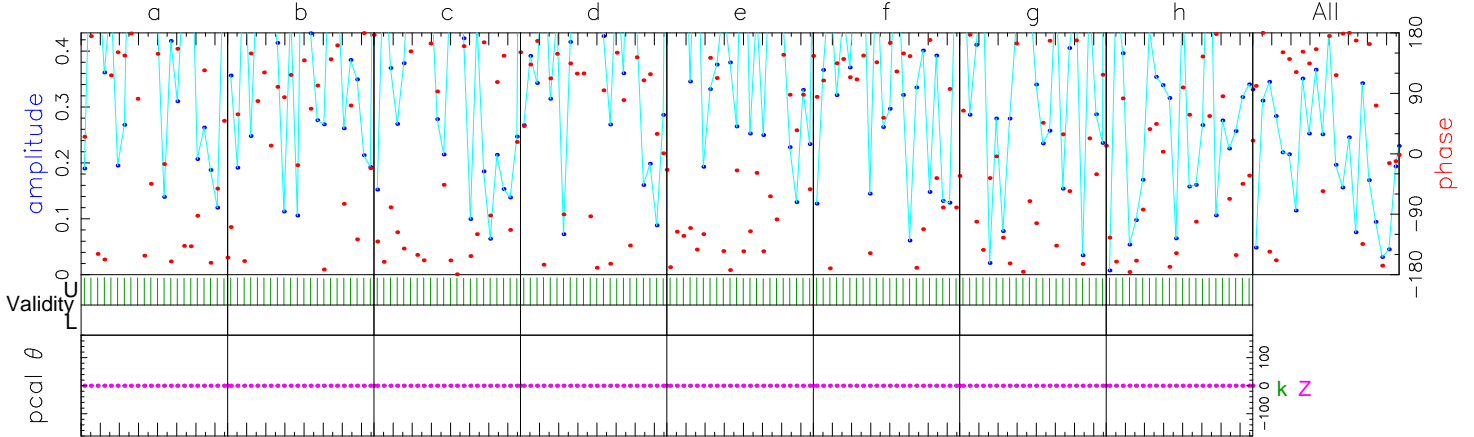


delay rate (ns/s)



Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210540
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



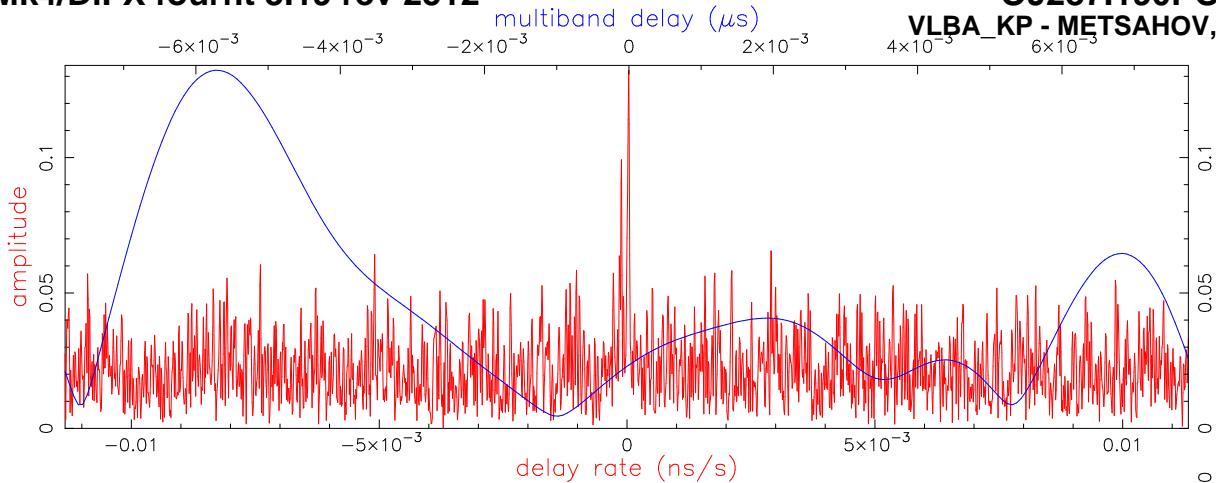
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-4.26259916311E+03	Apriori delay (usec)	-4.26259337325E+03	Resid mbdelay (usec)	-5.78985E-03	+/-	1.3E-04
Sband delay (usec)	-4.26259407675E+03	Apriori clock (usec)	-2.2493899E-01	Resid sbdelay (usec)	-7.03500E-04	+/-	1.1E-03
Phase delay (usec)	-4.26259336771E+03	Apriori clockrate (us/s)	-1.0600001E-08	Resid phdelay (usec)	5.54332E-06	+/-	4.5E-07
Delay rate (us/s)	1.82641444975E+00	Apriori rate (us/s)	1.82641442683E+00	Resid rate (us/s)	2.29225E-08	+/-	1.8E-09
Total phase (deg)	110.0	Apriori accel (us/s/s)	9.56939135708E-06	Resid phase (deg)	171.9	+/-	14.0

ph/seg (deg)	70.7	RMS	70.7	Theor.	33.6	Amplitude	0.144 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	93.0	Search (2048X32)	0.143	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000		
ph/frq (deg)	57.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008		
amp/frq (%)	53.8	Inc. seg. avg.	0.184	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011		
		Inc. frq. avg.	0.171	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00	

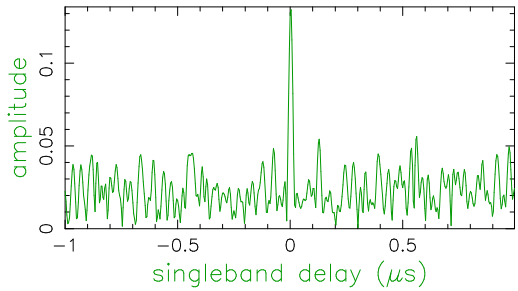
k: az 77.9 el 19.2 pa -62.2 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -11112.157 -2485.639 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kZ..190POF Output file: /Exps/c201c/v1/1234/No0032/kZ.W.100.190POF

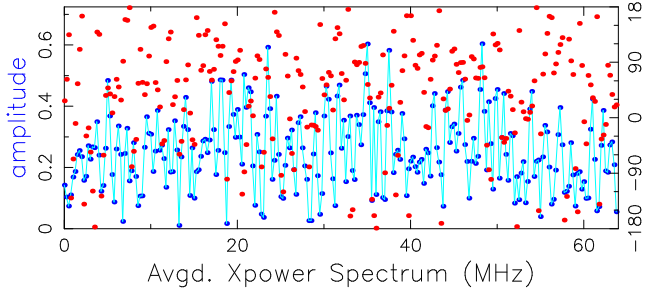


Fringe quality 9

SNR 7.6
Int time 430.855
Amp 0.134
Phase 159.8
PFD 8.9e-06
Delays (us)
SBD 0.002285
MBD -0.005741
Fringe rate (Hz)
0.002833
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

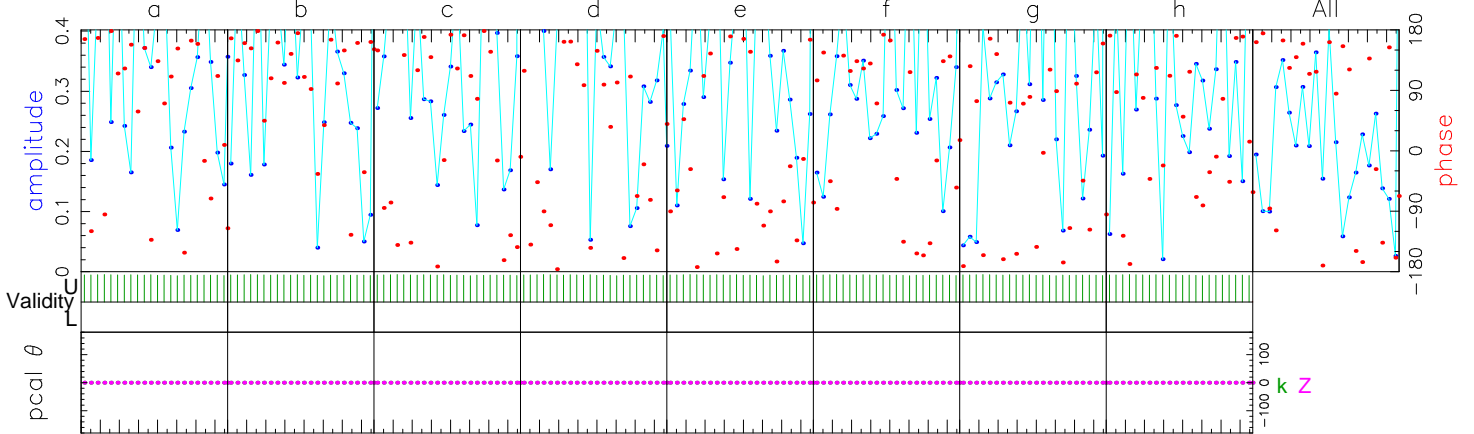


delay rate (ns/s)



Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210545
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

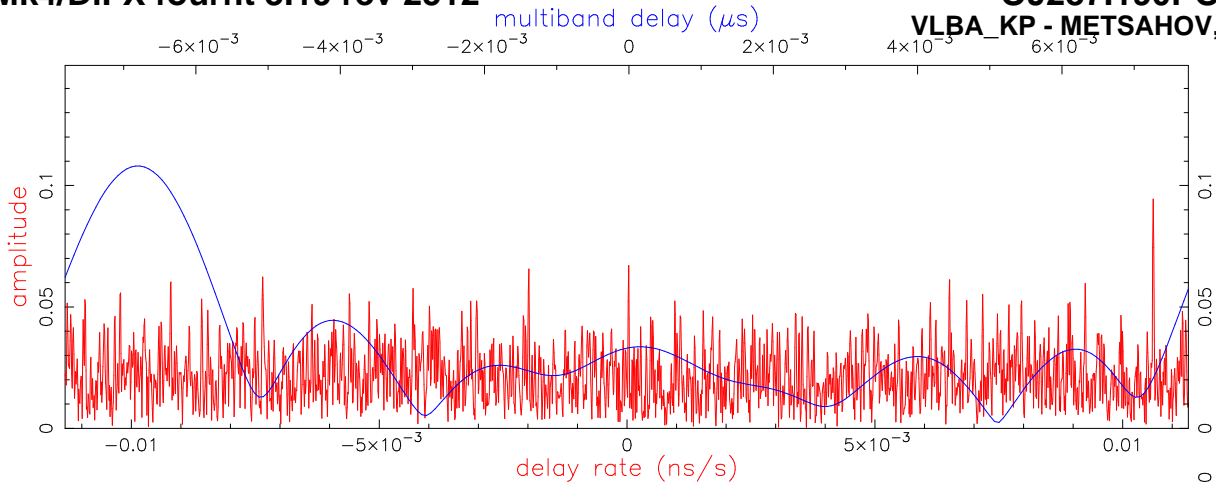
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:Z	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		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-4.26258348911E+03				-4.26259337325E+03				-5.74086E-03	+/- 1.4E-04
Sband delay (usec)	-4.26259108850E+03				-2.2493899E-01				2.28475E-03	+/- 1.1E-03
Phase delay (usec)	-4.26259336810E+03				-1.0600001E-08				5.15371E-06	+/- 4.9E-07
Delay rate (us/s)	1.82641445972E+00				1.82641442683E+00				3.28927E-08	+/- 1.9E-09
Total phase (deg)			97.9		9.56939135708E-06				159.8	+/- 15.1
	RMS	Theor.	Amplitude	0.134 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	58.1	36.1	Search (2048X32)	0.131	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	91.6	63.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	43.6	21.3	Inc. seg. avg.	0.171	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	36.7	37.2	Inc. frq. avg.	0.145	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

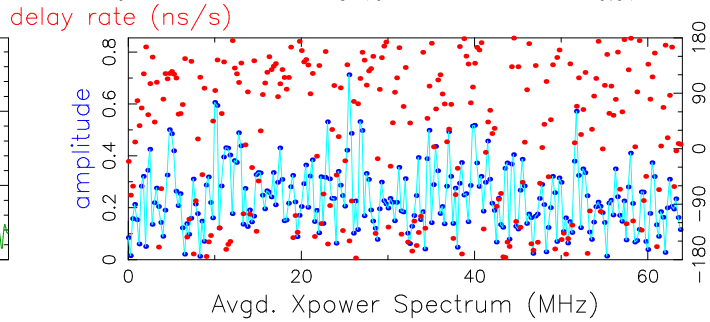
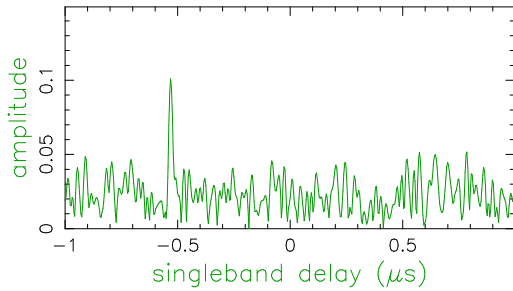
k: az 77.9 el 19.2 pa -62.2 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -11112.157 -2485.639 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kZ..190POF Output file: /Exps/c201c/v1/1234/No0032/kZ.W.124.190POF



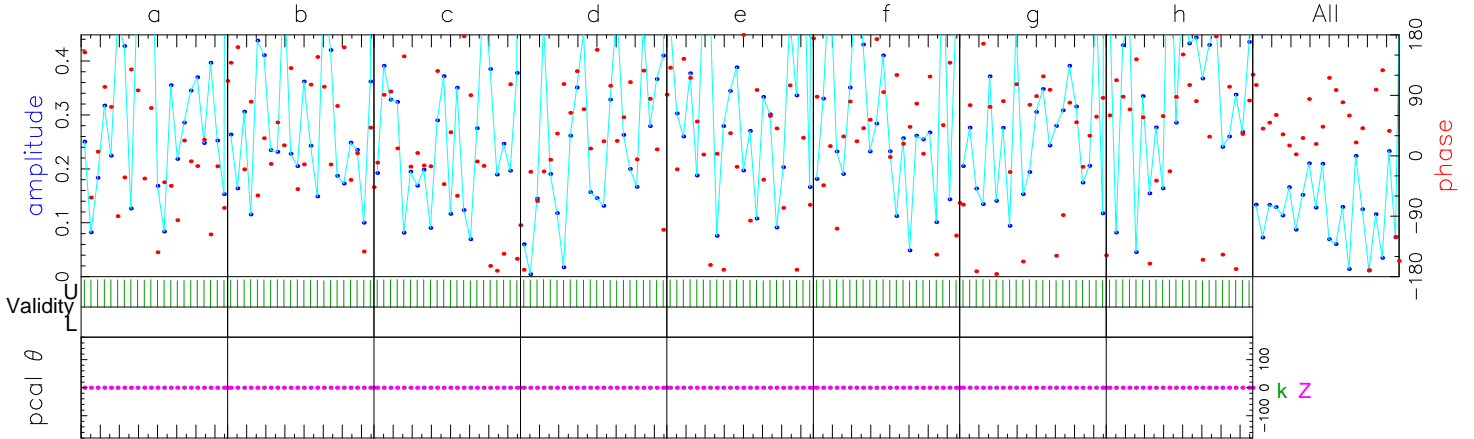
Fringe quality 0

SNR 5.7
 Int time 430.854
 Amp 0.149
 Phase 50.1
 PFD 9.2e-01
 Delays (us)
 SBD -0.530936
 MBD 0.008301
 Fringe rate (Hz) 0.916207
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512



Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build 2020:202:063214
 2020:202:210550
 2020:014:135814
 RA & Dec (J2000) 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-3.7	26.1	-0.8	53.7	58.9	42.9	86.7	87.5	Phase	50.1
	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	Ampl.	0.1
	46.7	457.4	96.9	29.6	261.0	453.0	2.8	261.7	Sbd box	121.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-4.26313194747E+03	Apriori delay (usec)	-4.26259337325E+03	Resid mbdelay (usec)	8.30078E-03	+/-	1.9E-04
Sband delay (usec)	-4.26312430888E+03	Apriori clock (usec)	-2.2493899E-01	Resid sbdelay (usec)	-5.30936E-01	+/-	1.5E-03
Phase delay (usec)	-4.26259337164E+03	Apriori clockrate (us/s)	-1.0600001E-08	Resid phdelay (usec)	1.61446E-06	+/-	6.4E-07
Delay rate (us/s)	1.82642506309E+00	Apriori rate (us/s)	1.82641442683E+00	Resid rate (us/s)	1.06363E-05	+/-	2.5E-09
Total phase (deg)	-11.9	Apriori accel (us/s/s)	9.56939135708E-06	Resid phase (deg)	50.1	+/-	20.0

ph/seg (deg)	58.7	RMS	58.7	Theor.	48.0	Amplitude	0.149 +/- 0.026	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	65.4		65.4		83.7	Search (2048X32)	0.104	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	38.6		38.6		28.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	38.8		38.8		49.4	Inc. seg. avg.	0.132	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011 0.011	
						Inc. frq. avg.	0.147	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

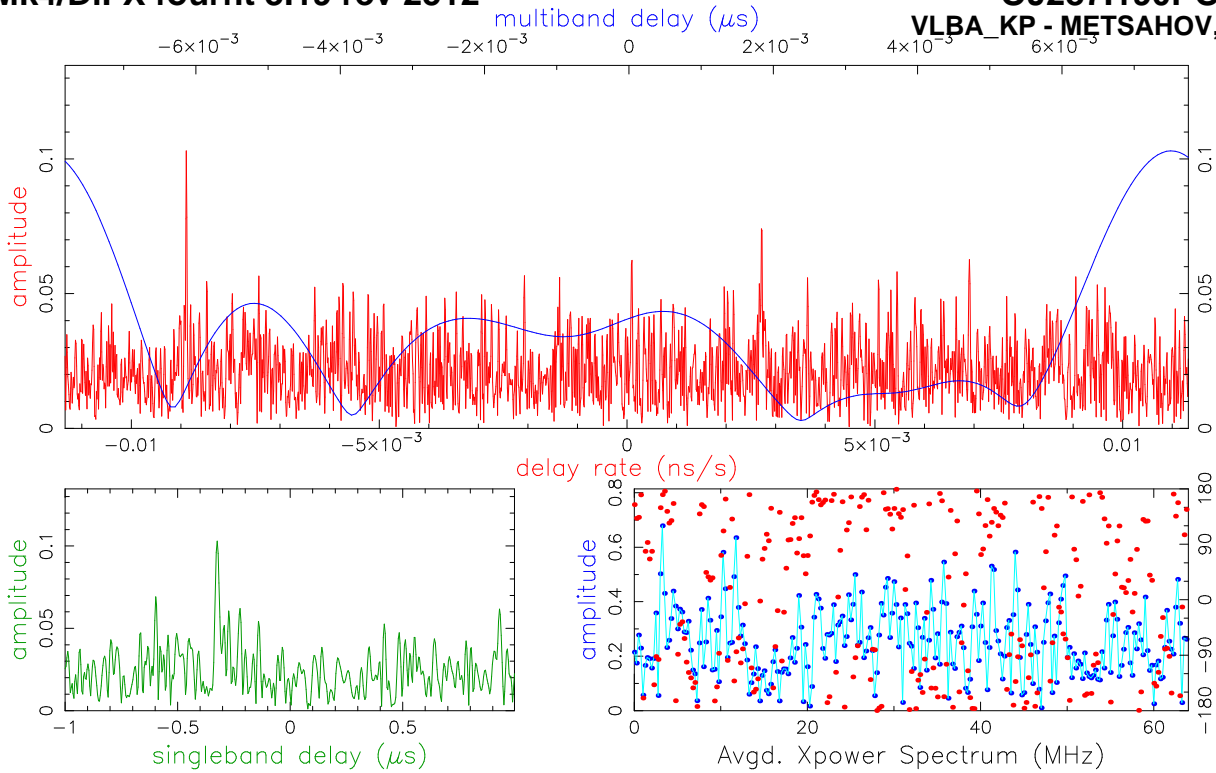
k: az 77.9 el 19.2 pa -62.2 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -11112.157 -2485.639 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kZ..190POF Output file: /Exps/c201c/v1/1234/No0032/kZ.W.142.190POF

Mk4/DiFX fourfit 3.19 rev 2512

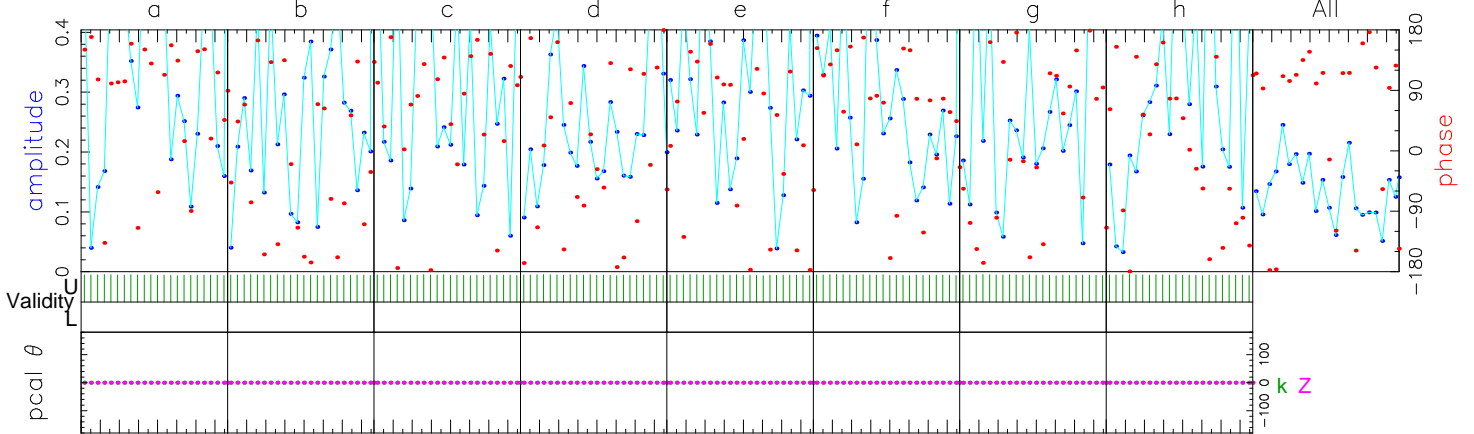
OJ287.190POF, No0032, kZ

VLBA_KP - METSAHOV, fgroup W, pol RL



Fringe quality 0
 SNR 5.8
 Int time 430.855
 Amp 0.135
 Phase 128.9
 PFD 7.2e-01
 Delays (us)
 SBD -0.324346
 MBD -0.008112
 Fringe rate (Hz)
 -0.767415
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210554
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

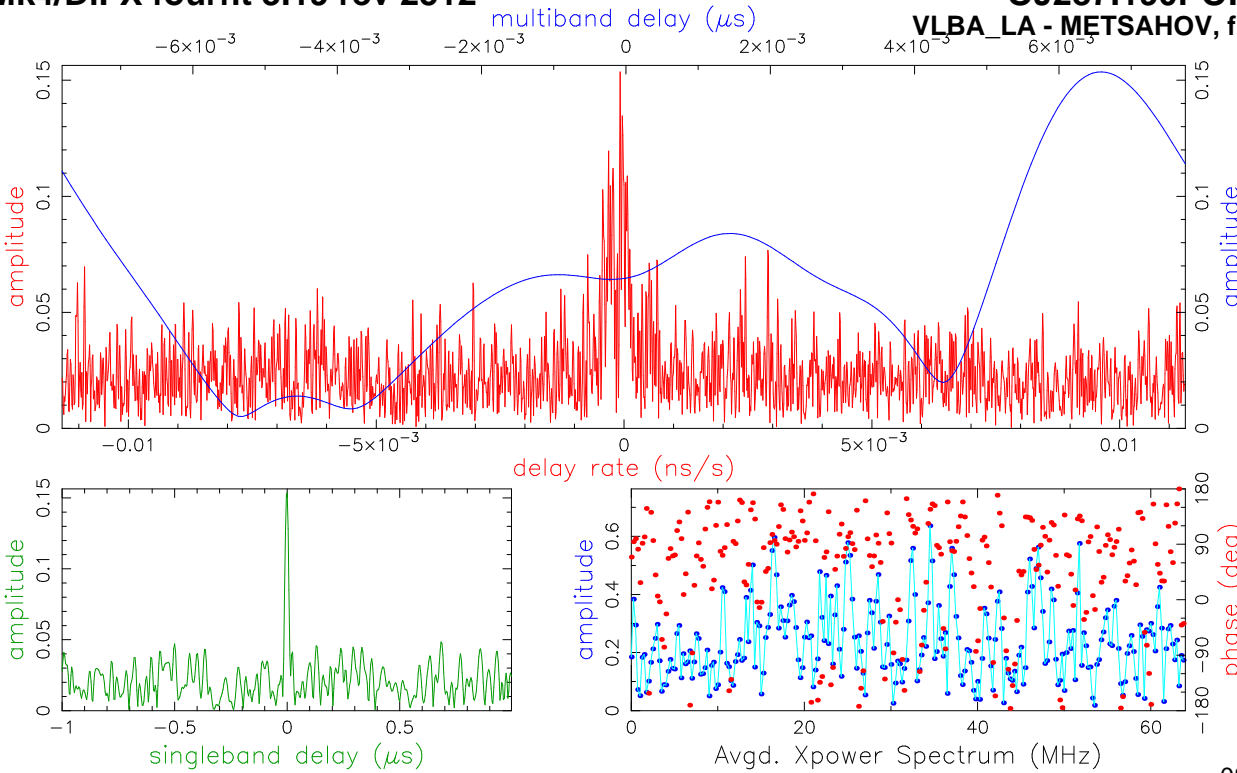
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:Z	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		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-4.26291398478E+03				-4.26259337325E+03				-8.11153E-03	+/- 1.9E-04
Sband delay (usec)	-4.26291771925E+03				-2.2493899E-01				-3.24346E-01	+/- 1.5E-03
Phase delay (usec)	-4.26259336910E+03				-1.0600001E-08				4.15752E-06	+/- 6.3E-07
Delay rate (us/s)	1.82640551790E+00				1.82641442683E+00				-8.90893E-06	+/- 2.5E-09
Total phase (deg)			67.0		9.56939135708E-06				128.9	+/- 19.6
pcal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5							
pcal rate:	0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000		1.000			
Bits/sample:	2x2		SampCntNorm: enabled		mb window (us)		-0.008		0.008	
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	

k: az 77.9 el 19.2 pa -62.2 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -11112.157 -2485.639 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kZ..190POF Output file: /Exps/c201c/v1/1234/No0032/kZ.W.157.190POF

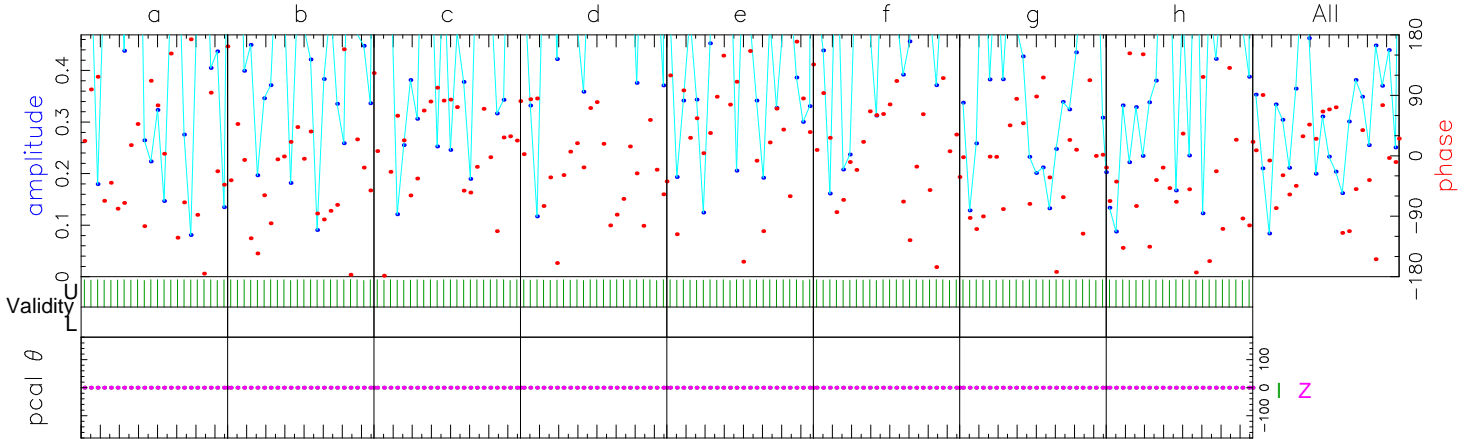


Fringe quality 9

SNR 8.9
 Int time 433.253
 Amp 0.156
 Phase 3.5
 PFD 2.1×10^{-10}
 Delays (us)
 SBD -0.001742
 MBD 0.006574
 Fringe rate (Hz)
 -0.006835
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210553
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



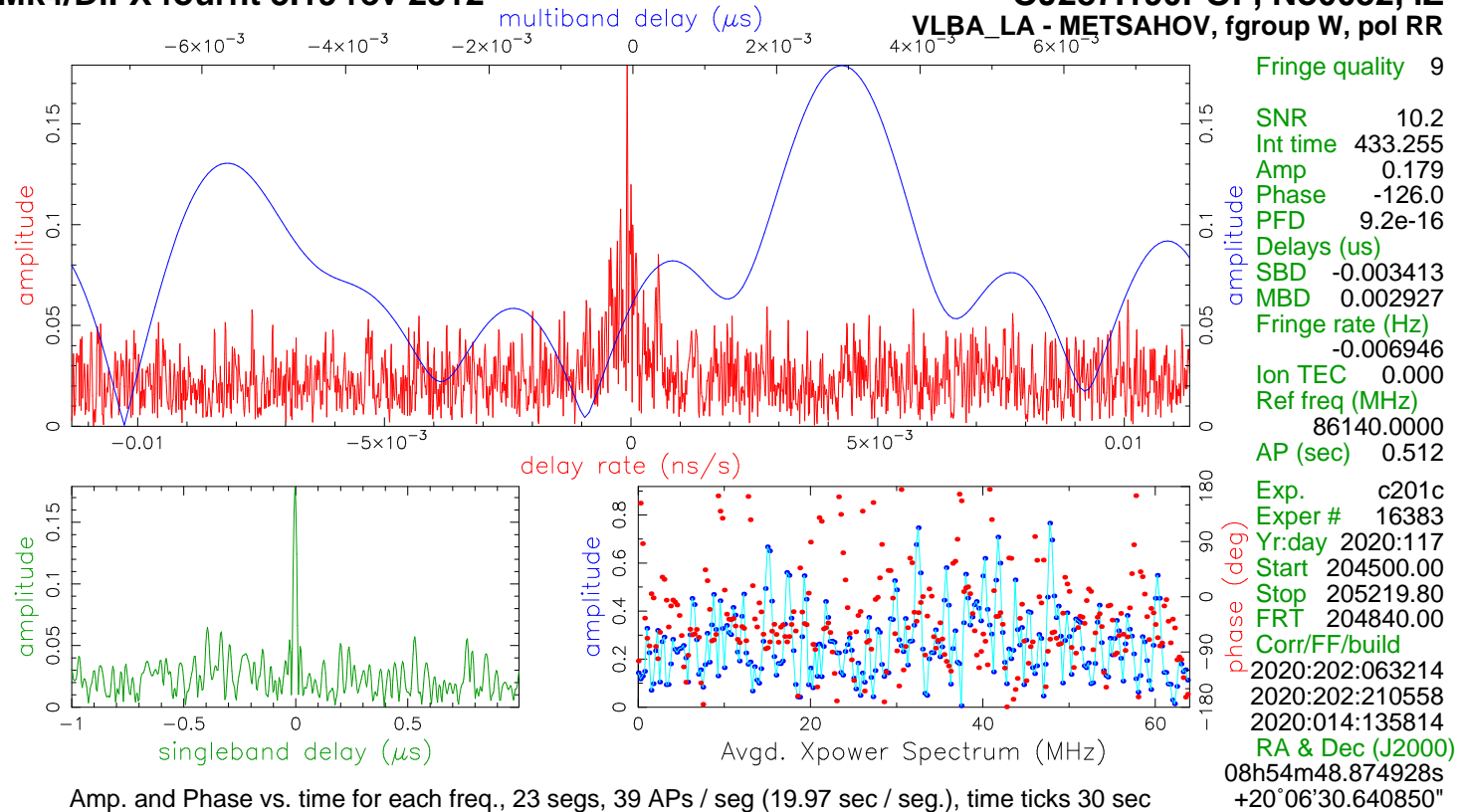
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-19.1	-25.6	31.8	-21.4	78.3	25.3	-2.8	-83.7		Phase
	0.1	0.2	0.3	0.3	0.2	0.2	0.2	0.1		Ampl.
	374.5	265.6	255.9	256.3	255.8	255.5	255.3	253.9		Sbd box
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		APs used
I	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
Z	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
I	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
Z	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
I	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks

Group delay (usec)(sbd)	-2.54431866968E+03	Apriori delay (usec)	-2.54430961843E+03	Resid mbdelay (usec)	6.57375E-03	+/-	1.2E-04
Sband delay (usec)	-2.54431136068E+03	Apriori clock (usec)	-3.5975480E+00	Resid sbdelay (usec)	-1.74225E-03	+/-	9.7E-04
Phase delay (usec)	-2.54430961832E+03	Apriori clockrate (us/s)	-1.6700000E-07	Resid phdelay (usec)	1.13680E-07	+/-	4.2E-07
Delay rate (us/s)	1.74576434019E+00	Apriori rate (us/s)	1.74576441954E+00	Resid rate (us/s)	-7.93471E-08	+/-	1.6E-09
Total phase (deg)	-188.0	Apriori accel (us/s/s)	2.55243941650E-06	Resid phase (deg)	3.5	+/-	12.9

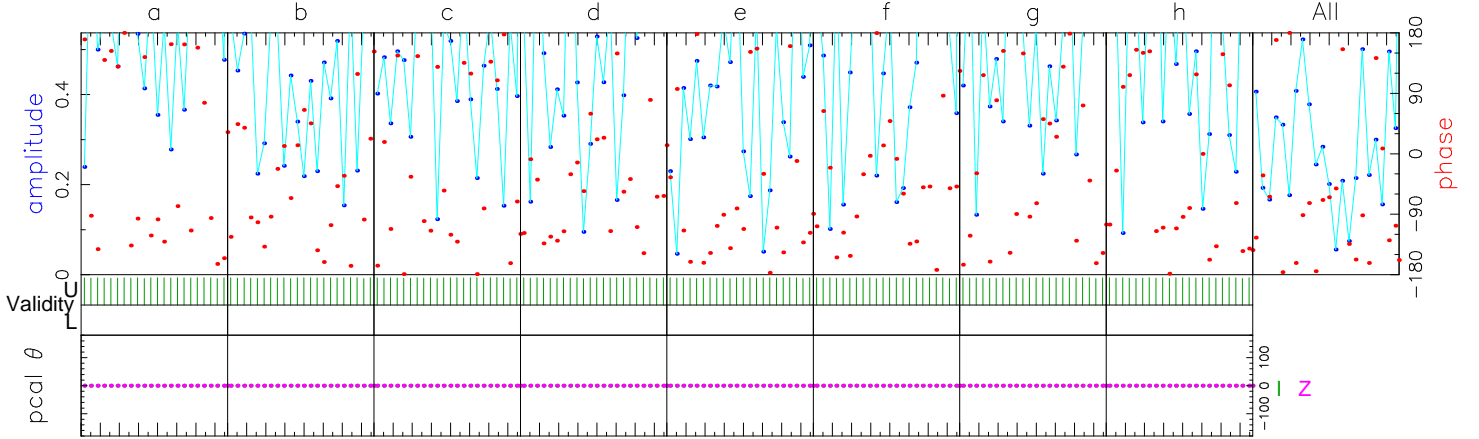
ph/seg (deg)	67.6	RMS	30.9	Theor.	31.8	Amplitude	0.156 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	124.2	Search (2048X32)	0.150	Search	2048X32	Search	0.150	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	52.4	Interp.	0.000	Interp.	0.000	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	55.3	Inc. seg. avg.	0.272	Inc. seg. avg.	0.272	Inc. seg. avg.	0.272	Sample rate (MSamp/s):	128	nlags: 256	t_cohere infinite	dr window (ns/s)	-0.011 0.011
		Inc. frq. avg.	0.188	Inc. frq. avg.	0.188	Inc. frq. avg.	0.188	Data rate (Mb/s):	2048			ion window (TEC)	0.00 0.00

I: az 82.1 el 24.3 pa -58.9 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -10632.924 -2228.858 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IZ...190POF Output file: /Exps/c201c/v1/1234/No0032/IZ.W.155.190POF



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

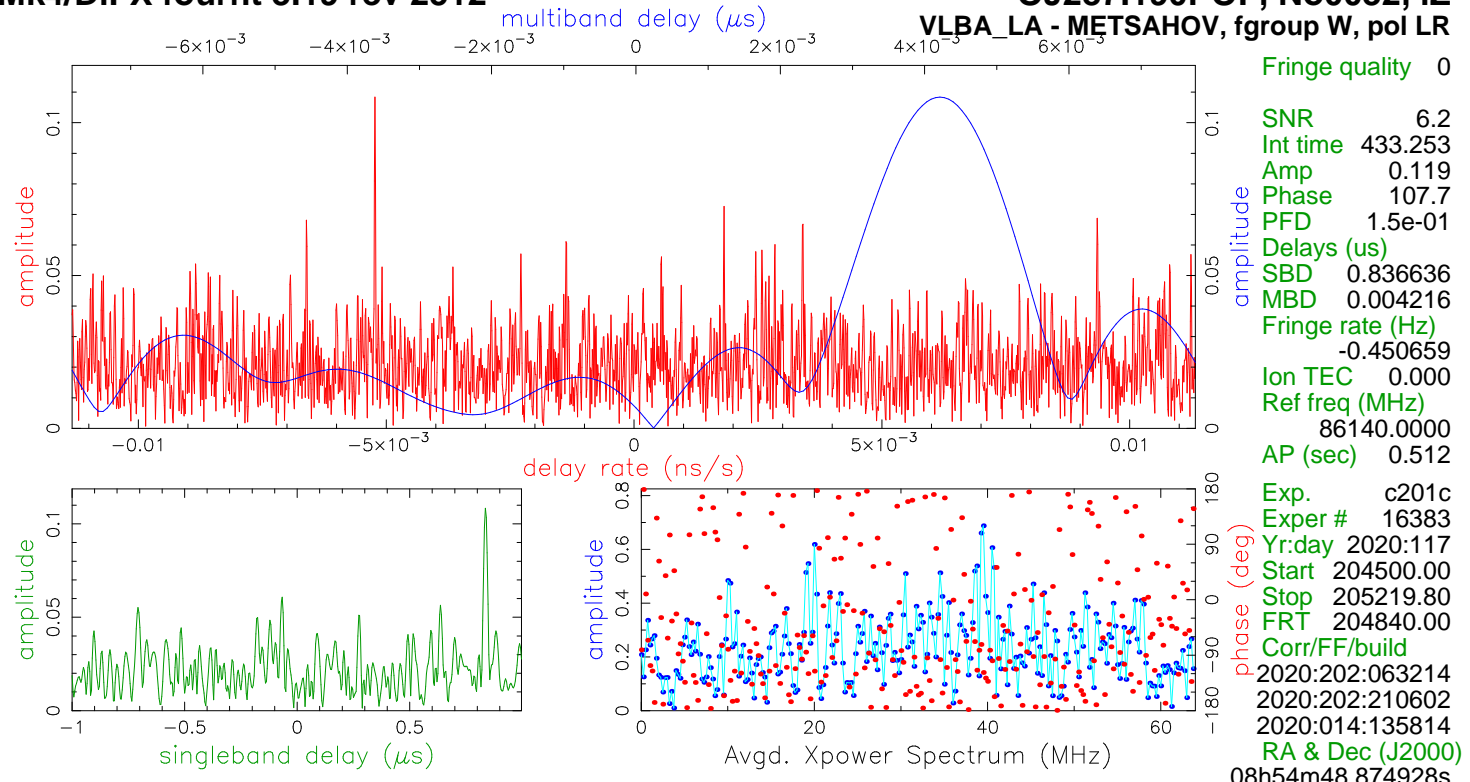


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-156.7	-67.8	-155.9	-65.3	-124.3	-63.4	-160.8	-150.2	Phase	-126.0
	0.4	0.1	0.2	0.3	0.2	0.2	0.2	0.3	Ampl.	0.2
	257.3	258.5	257.3	256.5	256.8	257.5	256.1	255.7	Sbd box	256.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.54430669112E+03		Apriori delay (usec)	-2.54430961843E+03	Resid mbdelay (usec)	2.92731E-03	+/-	1.1E-04		
Sband delay (usec)	-2.54431303143E+03		Apriori clock (usec)	-3.5975480E+07	Resid sbdelay (usec)	-3.41300E-03	+/-	8.5E-04		
Phase delay (usec)	-2.54430962250E+03		Apriori clockrate (us/s)	-1.6700000E-07	Resid phdelay (usec)	-4.06401E-06	+/-	3.6E-07		
Delay rate (us/s)	1.74576433891E+00		Apriori rate (us/s)	1.74576441954E+00	Resid rate (us/s)	-8.06310E-08	+/-	1.4E-09		
Total phase (deg)		-317.5	Apriori accel (us/s/s)	2.55243941650E-06	Resid phase (deg)	-126.0	+/-	11.2		

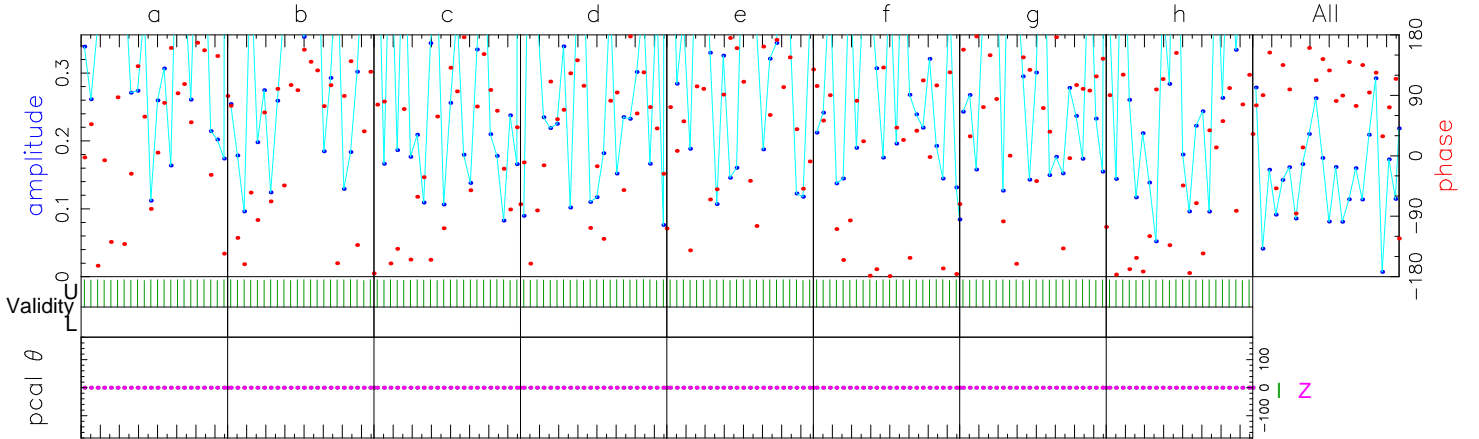
	RMS	Theor.	Amplitude	0.179 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	59.9	27.0	Search (2048X32)	0.174	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	92.9	47.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	49.4	15.9	Inc. seg. avg.	0.255	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	48.6	27.7	Inc. frq. avg.	0.224	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

I: az 82.1 el 24.3 pa -58.9 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -10632.924 -2228.858 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IZ...190POF Output file: /Exps/c201c/v1/1234/No0032/IZ.W.171.190POF



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
108.1	118.5	110.9	99.2	88.3	114.3	96.2	127.0	127.0	Phase	107.7
0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
25.9	471.2	148.3	459.8	102.0	64.8	225.8	413.8	413.8	Sbd box	471.2
U/L 859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
I 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Z 0:0	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	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000	1000		
I W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids	
Z W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	

Group delay (usec)(sbd)	-2.54347727760E+03	Apriori delay (usec)	-2.54430961843E+03	Resid mbdelay (usec)	4.21583E-03	+/-	1.8E-04
Sband delay (usec)	-2.54347298268E+03	Apriori clock (usec)	-3.5975480E+07	Resid sbdelay (usec)	8.36636E-01	+/-	1.4E-03
Phase delay (usec)	-2.54430961496E+03	Apriori clockrate (us/s)	-1.6700000E-07	Resid phdelay (usec)	3.47462E-06	+/-	6.0E-07
Delay rate (us/s)	1.74575918784E+00	Apriori rate (us/s)	1.74576441954E+00	Resid rate (us/s)	-5.23170E-06	+/-	2.4E-09
Total phase (deg)	-83.8	Apriori accel (us/s/s)	2.55243941650E-06	Resid phase (deg)	107.7	+/-	18.5

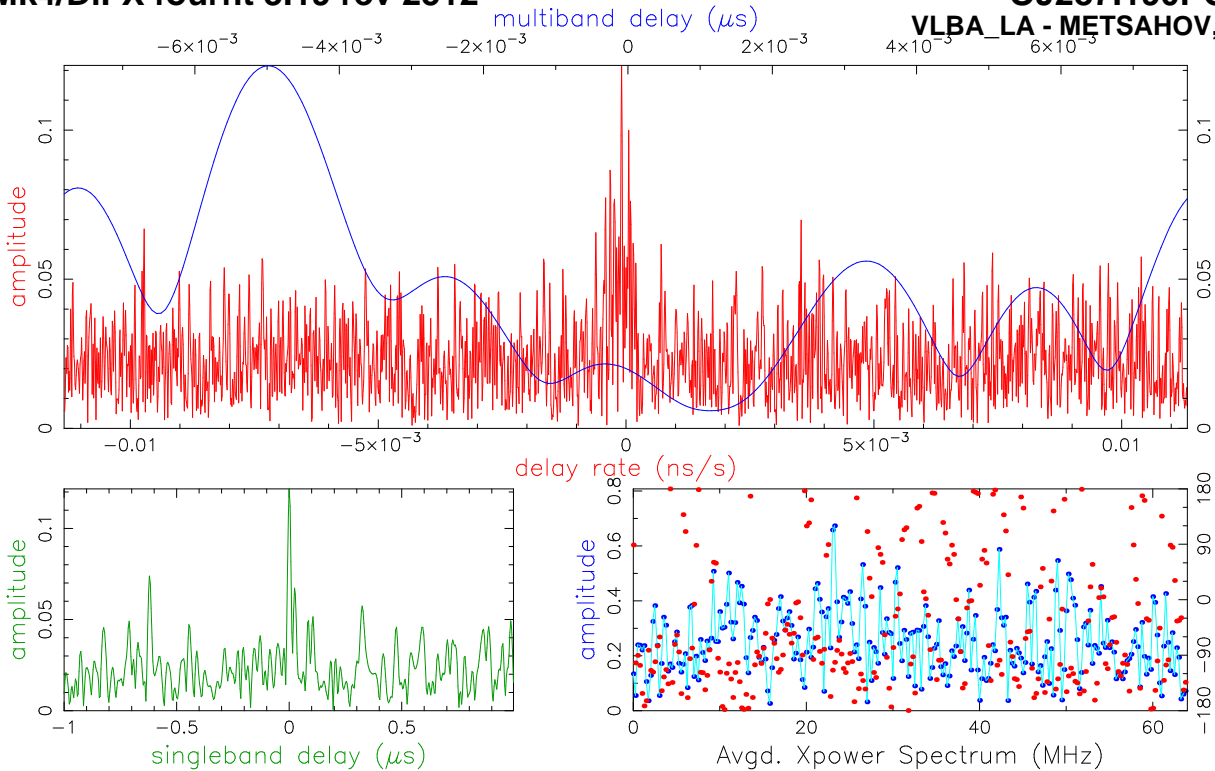
ph/seg (deg)	61.1	Theor.	44.4	Amplitude	0.119 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	75.5		77.6	Search (2048X32)	0.101	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	13.7		26.2	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	22.6		45.7	Inc. seg. avg.	0.125	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.110	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

I: az 82.1 el 24.3 pa -58.9 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -10632.924 -2228.858 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IZ...190POF Output file: /Exps/c201c/v1/1234/No0032/IZ.W.187.190POF

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, IZ
VLBA_LA - METSAHOV, fgroup W, pol RL

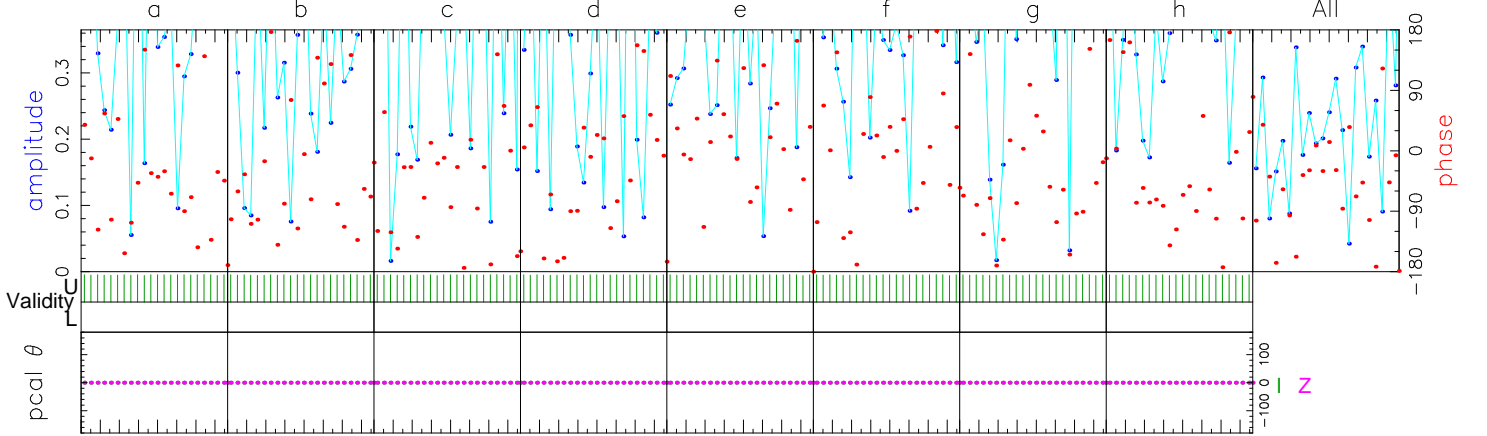


Fringe quality 0

SNR 6.9
Int time 433.255
Amp 0.122
Phase -49.7
PFD 1.3e-03
Delays (us)
SBD 0.000400
MBD -0.004977
Fringe rate (Hz)
-0.007170
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210606
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-58.2	-97.7	-27.1	-52.6	12.9	-12.0	-52.9	-94.7	Phase	-49.7
	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.2	Ampl.	0.1
	257.7	11.1	447.4	80.5	256.4	443.9	482.4	262.6	Sbd box	257.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
I:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
I	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
I	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-2.54431459577E+03	Apriori delay (usec)	-2.54430961843E+03	Resid mbdelay (usec)	-4.97734E-03	+/-	1.6E-04
Sband delay (usec)	-2.54430921868E+03	Apriori clock (usec)	-3.5975480E+00	Resid sbdelay (usec)	3.99750E-04	+/-	1.2E-03
Phase delay (usec)	-2.54430962004E+03	Apriori clockrate (us/s)	-1.6700000E-07	Resid phdelay (usec)	-1.60365E-06	+/-	5.3E-07
Delay rate (us/s)	1.74576433631E+00	Apriori rate (us/s)	1.74576441954E+00	Resid rate (us/s)	-8.32343E-08	+/-	2.1E-09
Total phase (deg)		Apriori accel (us/s/s)	2.55243941650E-06	Resid phase (deg)	-49.7	+/-	16.5

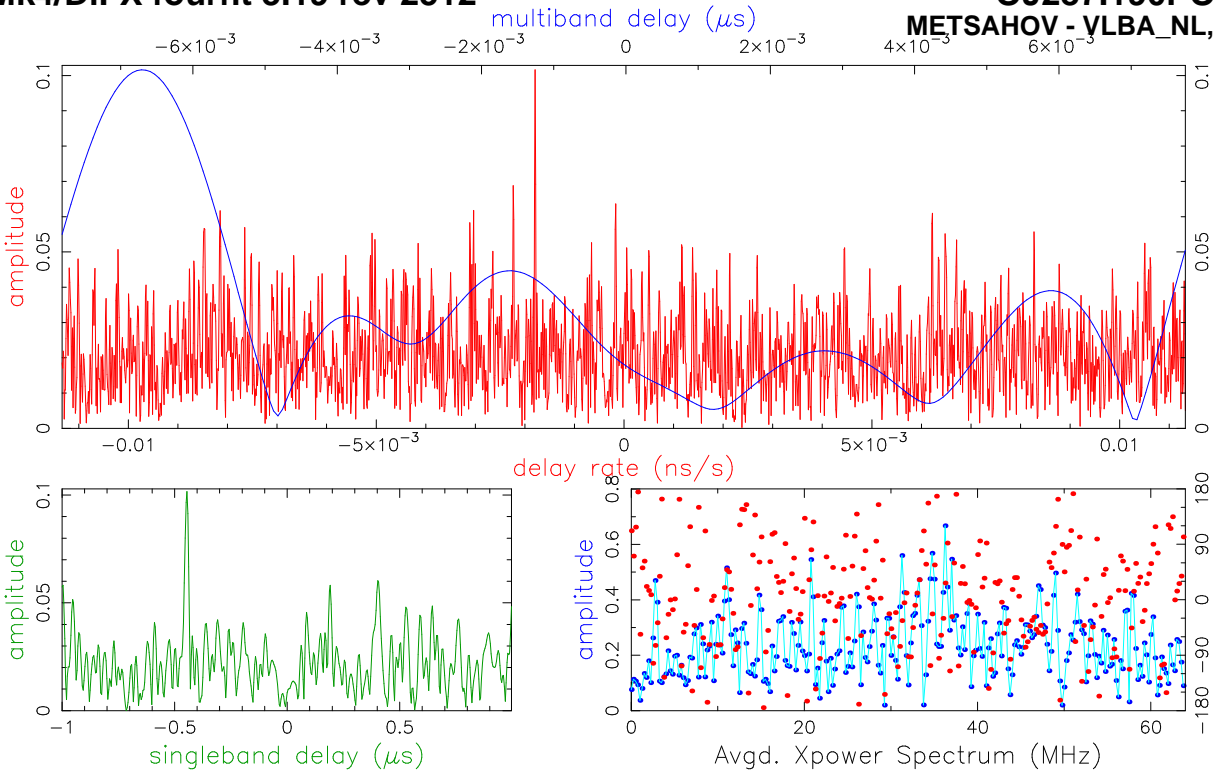
	RMS	Theor.	Amplitude	0.122 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	69.4	39.7	Search (2048X32)	0.116	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	115.0	69.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	41.4	23.4	Inc. seg. avg.	0.177	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	35.4	40.8	Inc. frq. avg.	0.139	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

I: az 82.1 el 24.3 pa -58.9 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -10632.924 -2228.858 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/IZ...190POF Output file: /Exps/c201c/v1/1234/No0032/IZ.W.199.190POF

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, Zn
 METSAHOV - VLBA_NL, fgroup W, pol RR

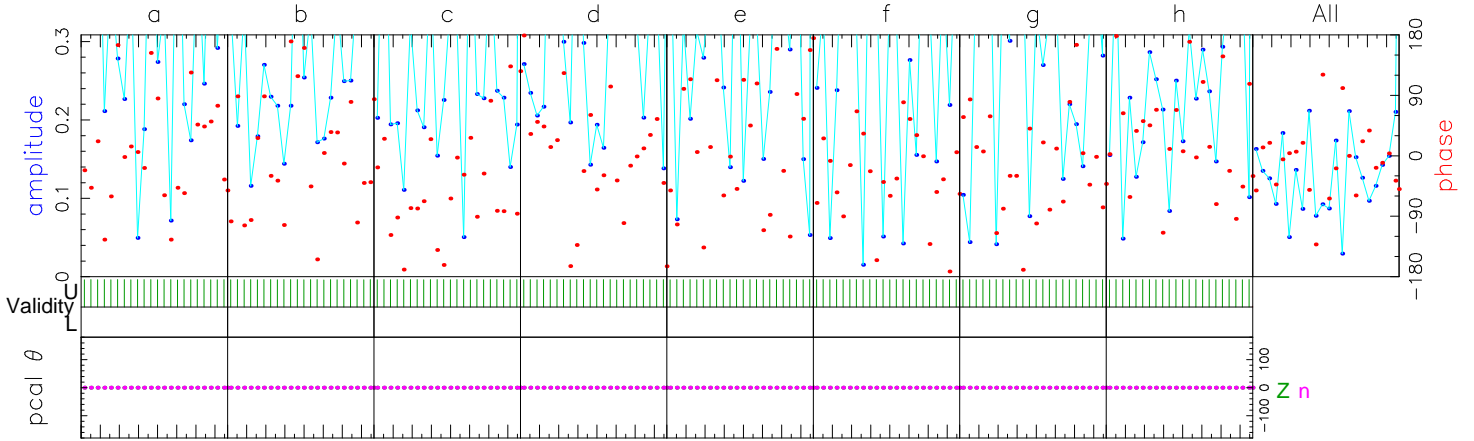


Fringe quality 0

SNR 5.8
 Int time 437.401
 Amp 0.103
 Phase -14.4
 PFD 7.7e-01
 Delays (us)
 SBD -0.445904
 MBD -0.006699
 Fringe rate (Hz)
 -0.154620
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210605
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

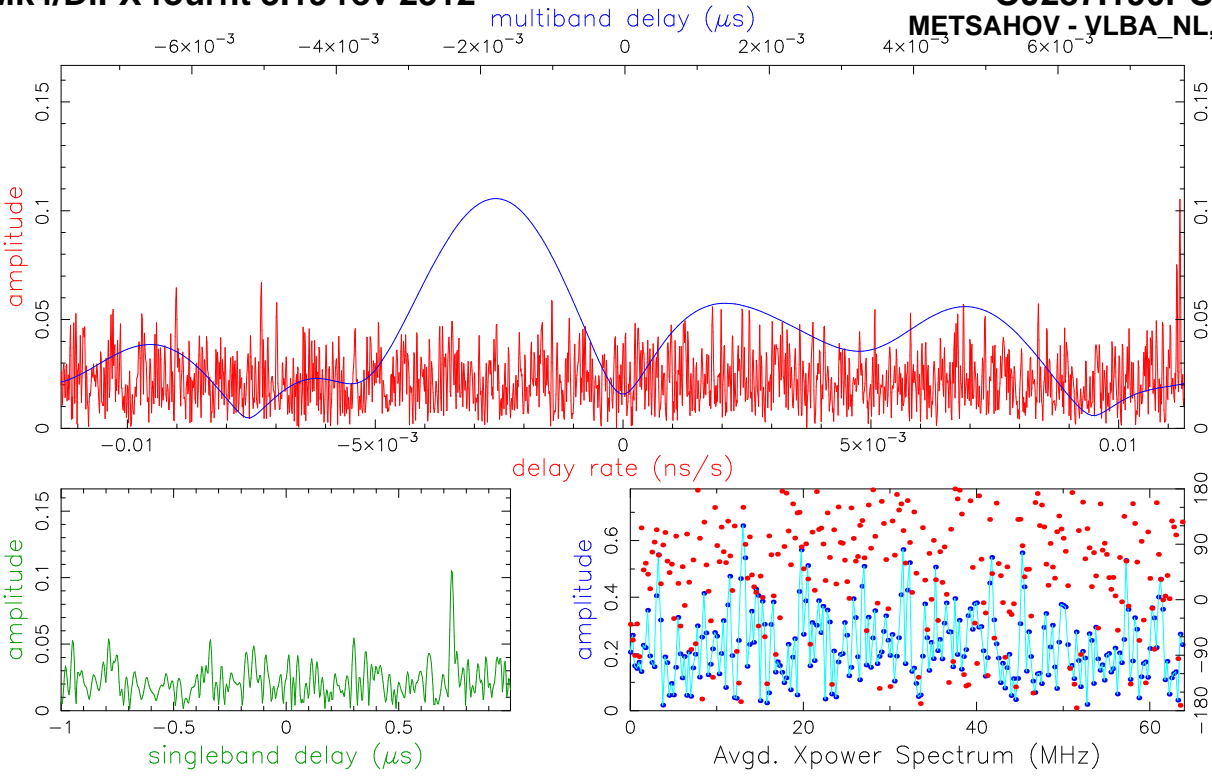


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	-3.6	-29.7	-37.9	4.8	29.5	-31.3	-20.8	15.3		-14.4	
	0.2	0.1	0.1	0.1	0.0	0.2	0.1	0.1		0.1	
	366.8	305.7	46.5	411.0	455.0	2.2	362.6	310.8		142.8	
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0			
Z	1000	1000	1000	1000	1000	1000	1000	1000			
n	1000	1000	1000	1000	1000	1000	1000	1000			
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
Z	1000	1000	1000	1000	1000	1000	1000	1000			
n	1000	1000	1000	1000	1000	1000	1000	1000			
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)	-1.16271331692E+03		Apriori delay (usec)		-1.16226911827E+03		Resid mbdelay (usec)		-6.69865E-03	+/- 1.9E-04	
Sband delay (usec)	-1.16271502252E+03		Apriori clock (usec)		-3.2418167E+01		Resid sbdelay (usec)		-4.45904E-01	+/- 1.5E-03	
Phase delay (usec)	-1.16226911873E+03		Apriori clockrate (us/s)		-3.1799997E-07		Resid phdelay (usec)		-4.65756E-07	+/- 6.3E-07	
Delay rate (us/s)	-1.53889345551E+00		Apriori rate (us/s)		-1.53889166053E+00		Resid rate (us/s)		-1.79498E-06	+/- 2.5E-09	
Total phase (deg)			-319.5		Apriori accel (us/s/s)		1.38198665409E-05		Resid phase (deg)	-14.4	+/- 19.7

ph/seg (deg) 53.2 47.2 Search (2048X32) 0.100 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 59.0 82.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 27.1 27.8 Inc. seg. avg. 0.098 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 41.0 48.6 Inc. frq. avg. 0.097 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 250.5 el 33.6 pa 29.9 n: az 94.6 el 35.9 pa -52.3 u,v (fr/asec) 9400.191 2027.040 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Zn..190POF Output file: /Exps/c201c/v1/1234/No0032/Zn.W.198.190POF

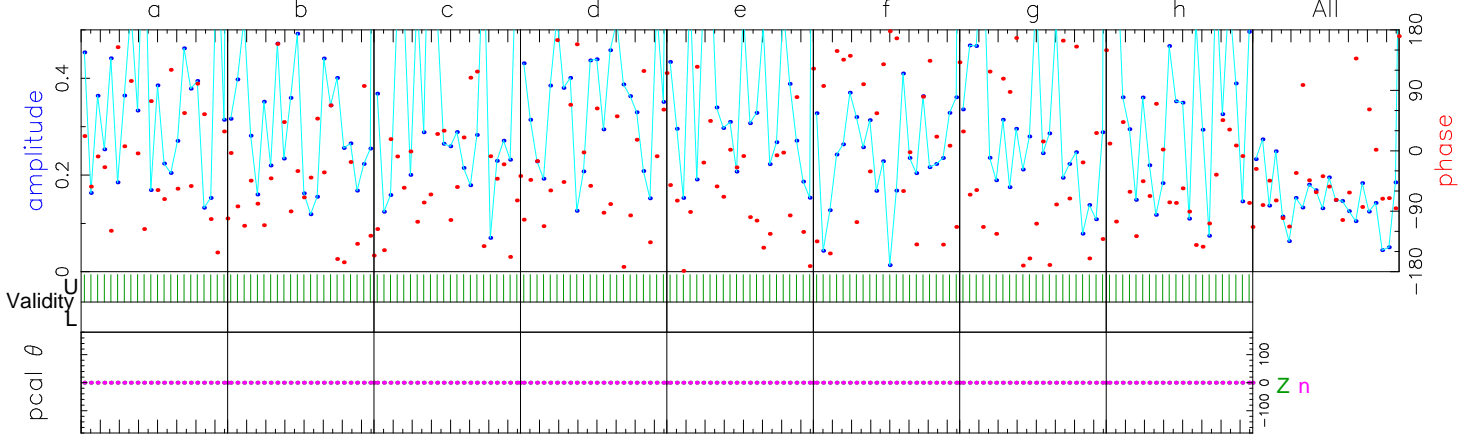
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, Zn
 METSAHOV - VLBA_NL, fgroup W, pol LR



Fringe quality 0
 SNR 6.1
 Int time 437.401
 Amp 0.167
 Phase -60.1
 PFD 2.3e-01
 Delays (us)
 SBD 0.736018
 MBD -0.001702
 Fringe rate (Hz)
 0.969857
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210609
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

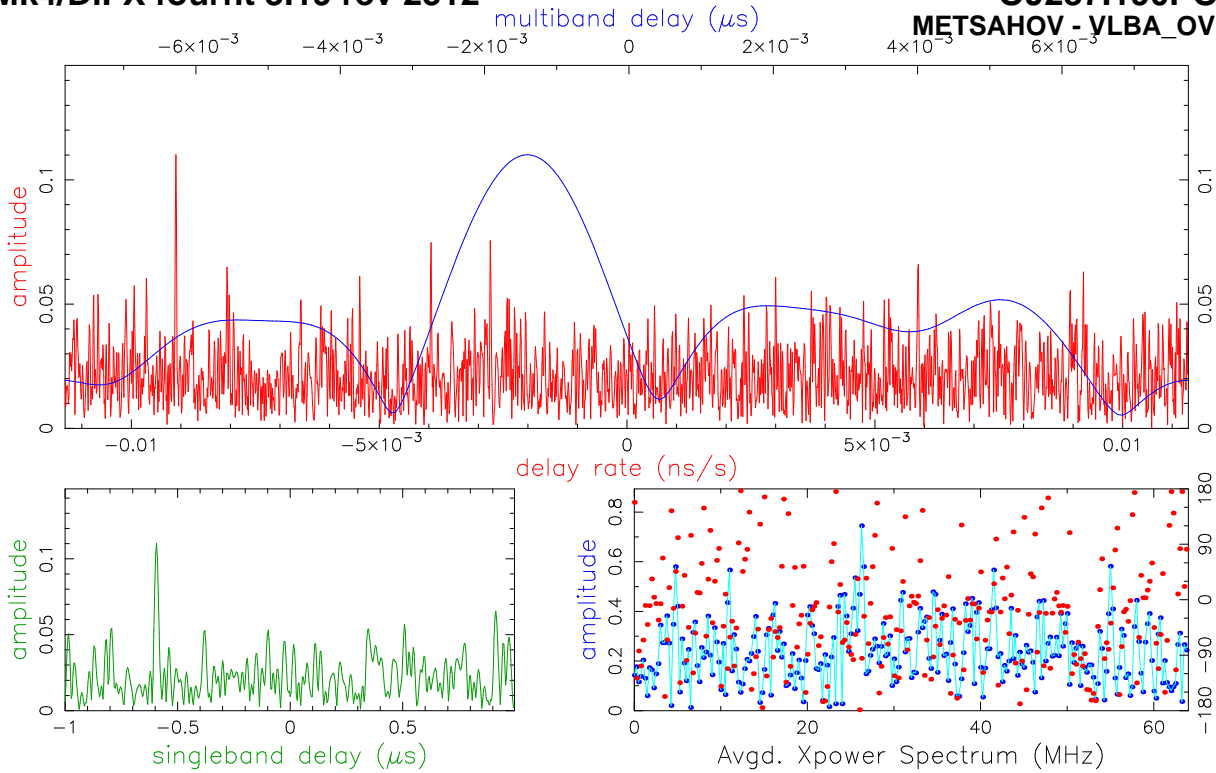
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-29.8	-75.2	-60.7	-35.3	-50.8	171.1	-121.3	-44.7	Phase	-60.1
	0.1	0.2	0.3	0.1	0.3	0.1	0.2	0.3	Ampl.	0.2
	392.1	417.4	445.7	476.2	36.3	8.0	496.6	370.1	Sbd box	445.4
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.16153644498E+03		Apriori delay (usec)		-1.16226911827E+03		Resid mbdelay (usec)		-1.70172E-03	+/- 1.8E-04
Sband delay (usec)	-1.16153310052E+03		Apriori clock (usec)		-3.2418167E+01		Resid sbdelay (usec)		7.36018E-01	+/- 1.4E-03
Phase delay (usec)	-1.16226912020E+03		Apriori clockrate (us/s)		-3.1799997E-07		Resid phdelay (usec)		-1.93850E-06	+/- 6.0E-07
Delay rate (us/s)	-1.53888040145E+00		Apriori rate (us/s)		-1.53889166053E+00		Resid rate (us/s)		1.12591E-05	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		1.38198665409E-05		Resid phase (deg)		-60.1	+/- 18.7

ph/seg (deg) 60.9 44.9 Search (2048X32) 0.105 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 69.3 78.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 61.1 26.5 Inc. seg. avg. 0.179 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 53.1 46.3 Inc. frq. avg. 0.174 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 250.5 el 33.6 pa 29.9 n: az 94.6 el 35.9 pa -52.3 u,v (fr/asec) 9400.191 2027.040 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Zn..190POF Output file: /Exps/c201c/v1/1234/No0032/Zn.W.217.190POF

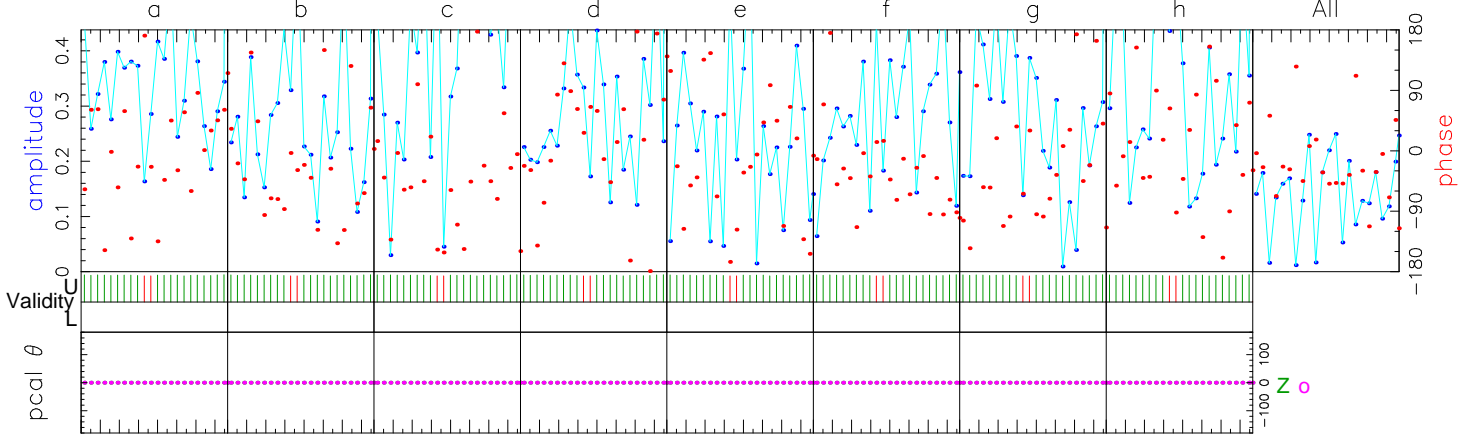


Fringe quality 0

SNR 6.2
 Int time 427.418
 Amp 0.146
 Phase -28.6
 PFD 1.2e-01
 Delays (us)
 SBD -0.594196
 MBD -0.001417
 Fringe rate (Hz)
 -0.785022
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

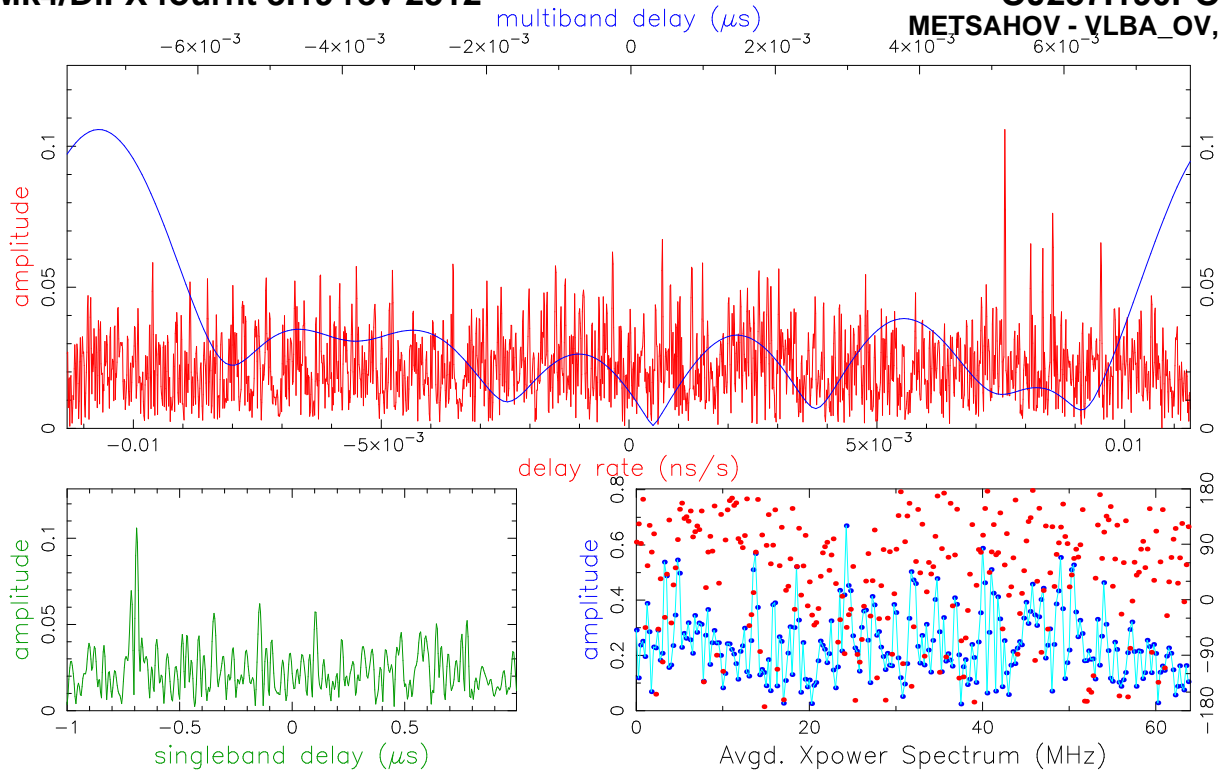
Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210607
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-0.7	-53.2	-49.5	59.3	-43.2	-44.7	-41.1	1.9	Phase	-28.6
	0.2	0.1	0.3	0.1	0.1	0.3	0.1	0.2	Ampl.	0.2
	353.6	376.0	105.7	284.1	314.8	103.8	106.9	256.8	Sbd box	104.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	5.73840258077E+03		Apriori delay (usec)		5.73899774774E+03		Resid mbdelay (usec)		-1.41697E-03	+/- 1.7E-04
Sband delay (usec)	5.73840355149E+03		Apriori clock (usec)		-2.0213840E+01		Resid sbdelay (usec)		-5.94196E-01	+/- 1.4E-03
Phase delay (usec)	5.73899774682E+03		Apriori clockrate (us/s)		-1.8500001E-07		Resid phdelay (usec)		-9.23124E-07	+/- 5.9E-07
Delay rate (us/s)	-1.77205798729E+00		Apriori rate (us/s)		-1.77204887397E+00		Resid rate (us/s)		-9.11332E-06	+/- 2.3E-09
Total phase (deg)	327.9		Apriori accel (us/s/s)		-2.04521016030E-05		Resid phase (deg)		-28.6	+/- 18.4

ph/seg (deg) 57.1 44.1 Search (2048X32) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 67.3 77.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.0 26.0 Inc. seg. avg. 0.141 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 47.0 45.4 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
 Z: az 250.5 el 33.6 pa 29.9 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) 10763.654 1545.849 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Zo..190POF Output file: /Exps/c201c/v1/1234/No0032/Zo.W.205.190POF

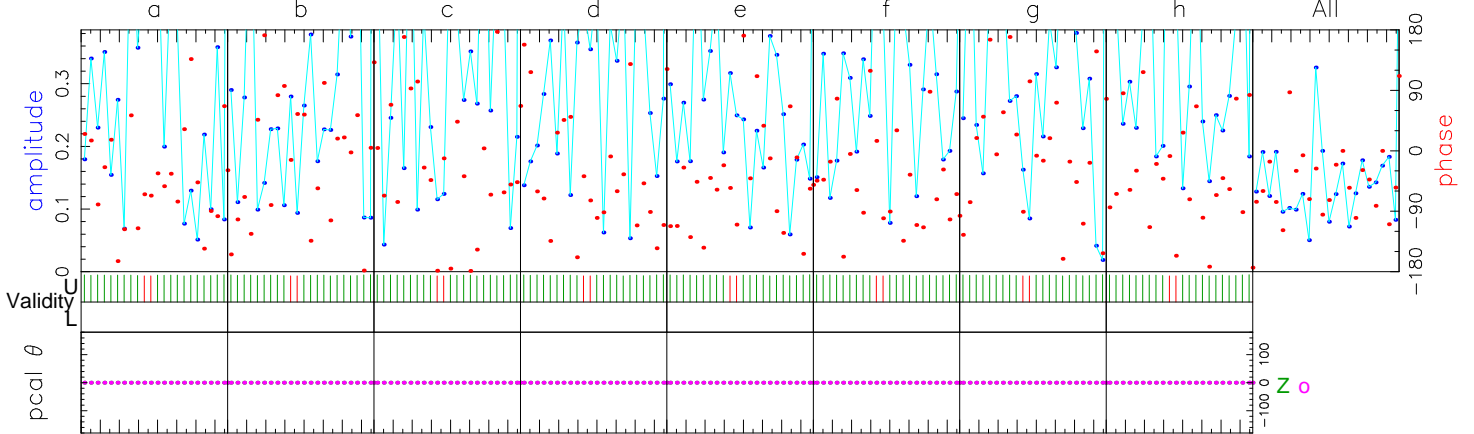


Fringe quality 0

SNR 6.0
 Int time 427.419
 Amp 0.129
 Phase -49.8
 PFD 3.9e-01
 Delays (us)
 SBD -0.690807
 MBD 0.008277
 Fringe rate (Hz) 0.654183
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build 2020:202:063214
 2020:202:210610
 2020:014:135814
 RA & Dec (J2000) 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

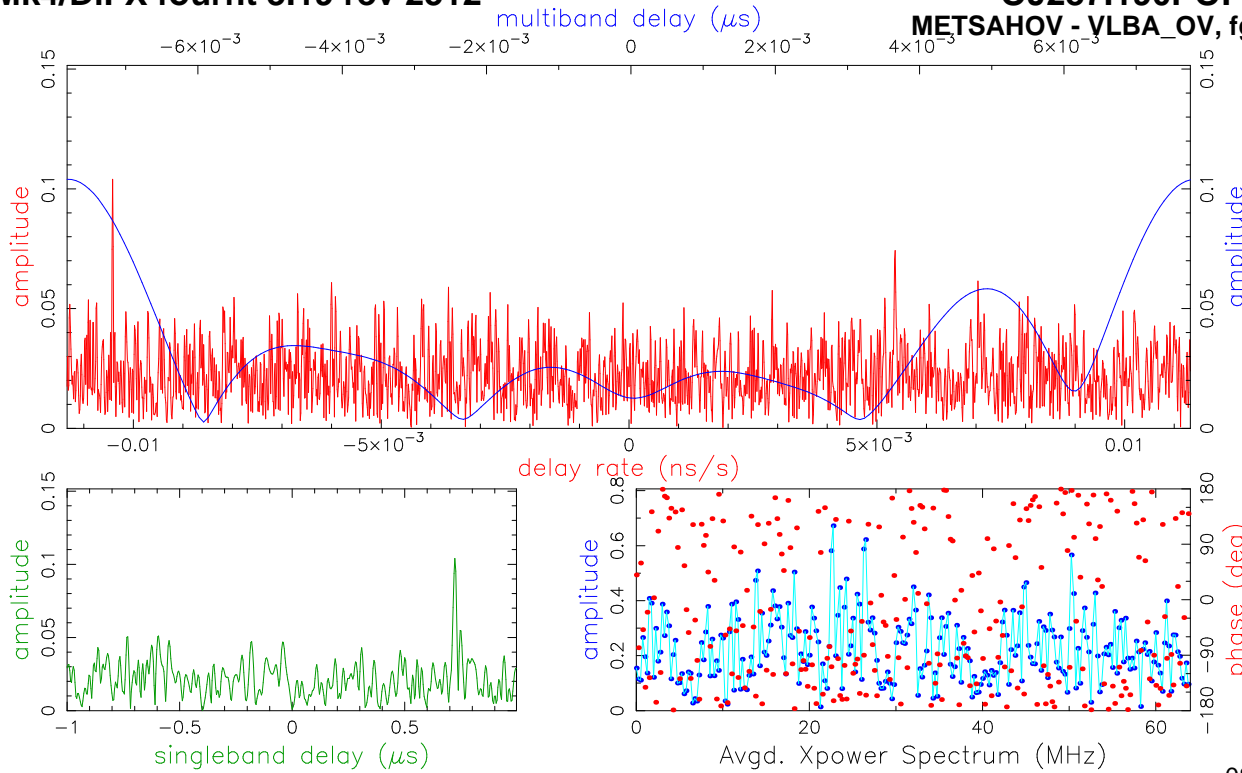


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-49.0	-6.2	-26.3	-71.7	-69.5	-51.5	-16.3	-52.9	Phase	-49.8
	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.2	Ampl.	0.1
	156.3	508.4	497.0	150.7	319.0	244.7	310.1	130.4	Sbd box	80.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	5.73830289949E+03		Apriori delay (usec)		5.73899774774E+03		Resid mbdelay (usec)		8.27675E-03	+/- 1.8E-04
Sband delay (usec)	5.73830694099E+03		Apriori clock (usec)		-2.0213840E+01		Resid sbdelay (usec)		-6.90807E-01	+/- 1.4E-03
Phase delay (usec)	5.73899774613E+03		Apriori clockrate (us/s)		-1.8500001E-07		Resid phdelay (usec)		-1.60652E-06	+/- 6.2E-07
Delay rate (us/s)	-1.77204127956E+00		Apriori rate (us/s)		-1.77204887397E+00		Resid rate (us/s)		7.59441E-06	+/- 2.4E-09
Total phase (deg)	306.7		Apriori accel (us/s/s)		-2.04521016030E-05		Resid phase (deg)		-49.8	+/- 19.1

ph/seg (deg) RMS Theor. Amplitude 0.129 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 45.7 45.8 Search (2048X32) 0.103 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 64.9 79.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 27.3 27.0 Inc. seg. avg. 0.129 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 35.2 47.1 Inc. frq. avg. 0.123 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 250.5 el 33.6 pa 29.9 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) 10763.654 1545.849 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Zo..190POF Output file: /Exps/c201c/v1/1234/No0032/Zo.W.221.190POF

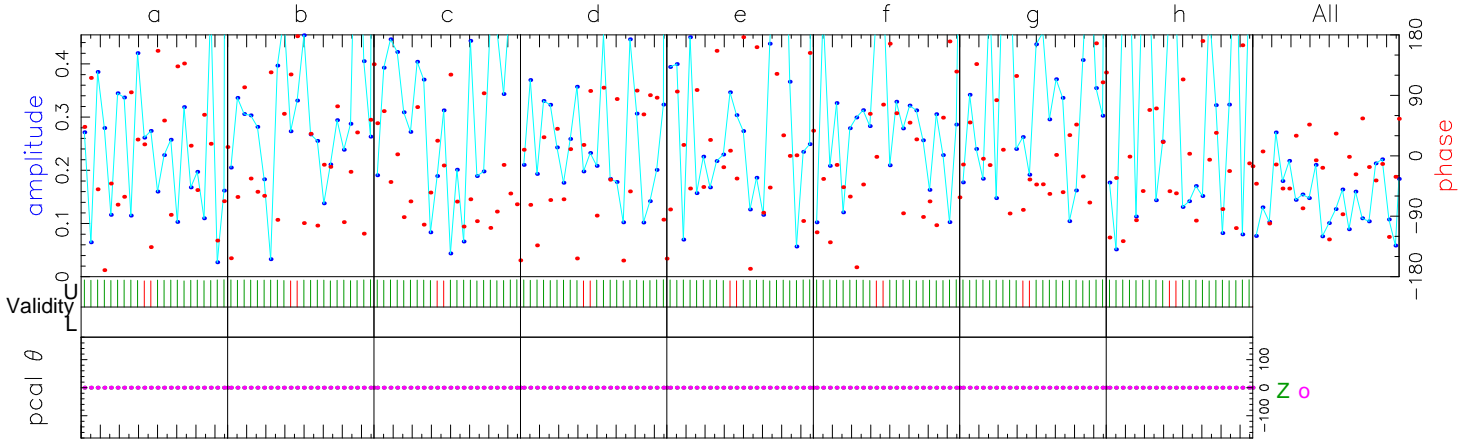


Fringe quality 0

SNR 5.9
 Int time 427.419
 Amp 0.152
 Phase -26.0
 PFD 6.4e-01
 Delays (us)
 SBD 0.722893
 MBD -0.007800
 Fringe rate (Hz)
 -0.898282
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

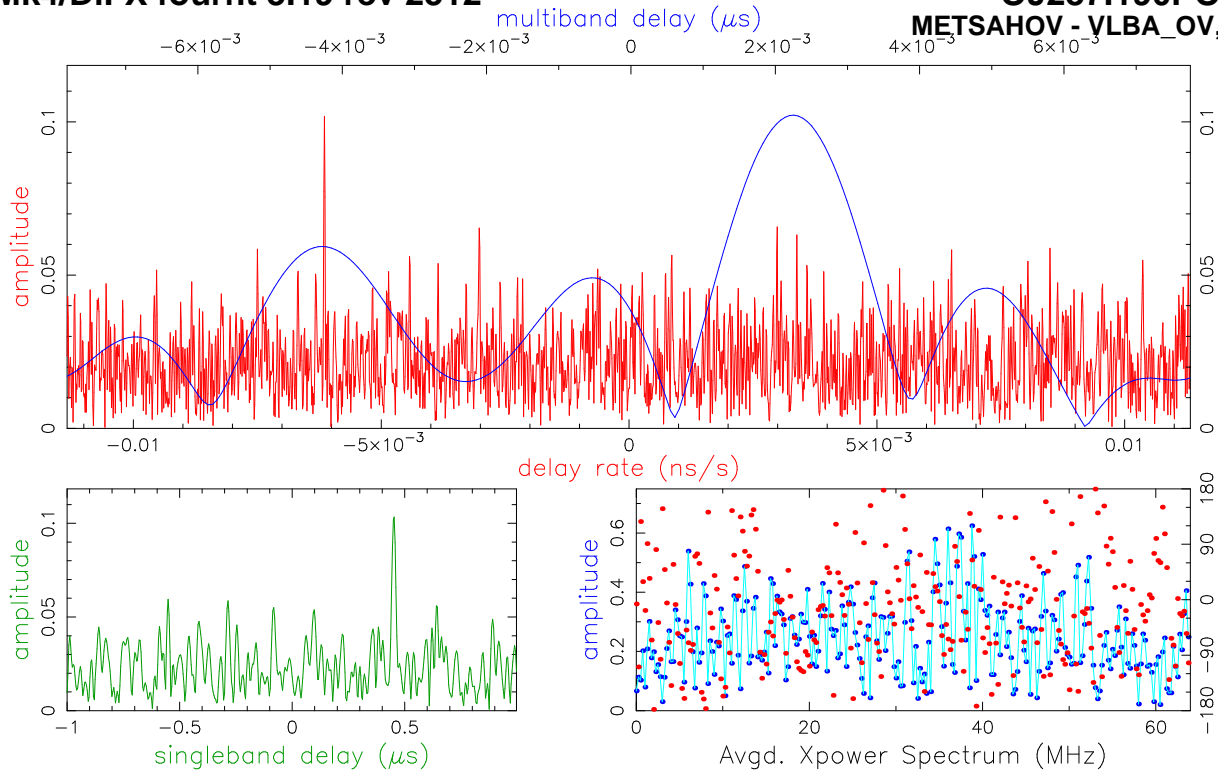
Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210614
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-13.4	-24.8	-49.1	-6.7	6.0	-10.0	-26.2	-35.0	Phase	-26.0
	0.1	0.1	0.3	0.1	0.1	0.1	0.2	0.2	Ampl.	0.1
	234.5	69.6	441.2	9.8	94.2	3.4	32.5	431.1	Sbd box	442.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z	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)	5.73972432254E+03		Apriori delay (usec)		5.73899774774E+03		Resid mbdelay (usec)		-7.80020E-03	+/- 1.8E-04
Sband delay (usec)	5.73972064124E+03		Apriori clock (usec)		-2.0213840E+01		Resid sbdelay (usec)		7.22893E-01	+/- 1.5E-03
Phase delay (usec)	5.73899774690E+03		Apriori clockrate (us/s)		-1.8500001E-07		Resid phdelay (usec)		-8.38586E-07	+/- 6.3E-07
Delay rate (us/s)	-1.77205930214E+00		Apriori rate (us/s)		-1.77204887397E+00		Resid rate (us/s)		-1.04282E-05	+/- 2.5E-09
Total phase (deg)	330.5		Apriori accel (us/s/s)		-2.04521016030E-05		Resid phase (deg)		-26.0	+/- 19.5

ph/seg (deg) 49.3 46.7 Search (2048X32) 0.102 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 65.1 81.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 20.1 27.5 Inc. seg. avg. 0.157 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 47.0 48.1 Inc. frq. avg. 0.142 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 250.5 el 33.6 pa 29.9 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) 10763.654 1545.849 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Zo..190POF Output file: /Exps/c201c/v1/1234/No0032/Zo.W.233.190POF

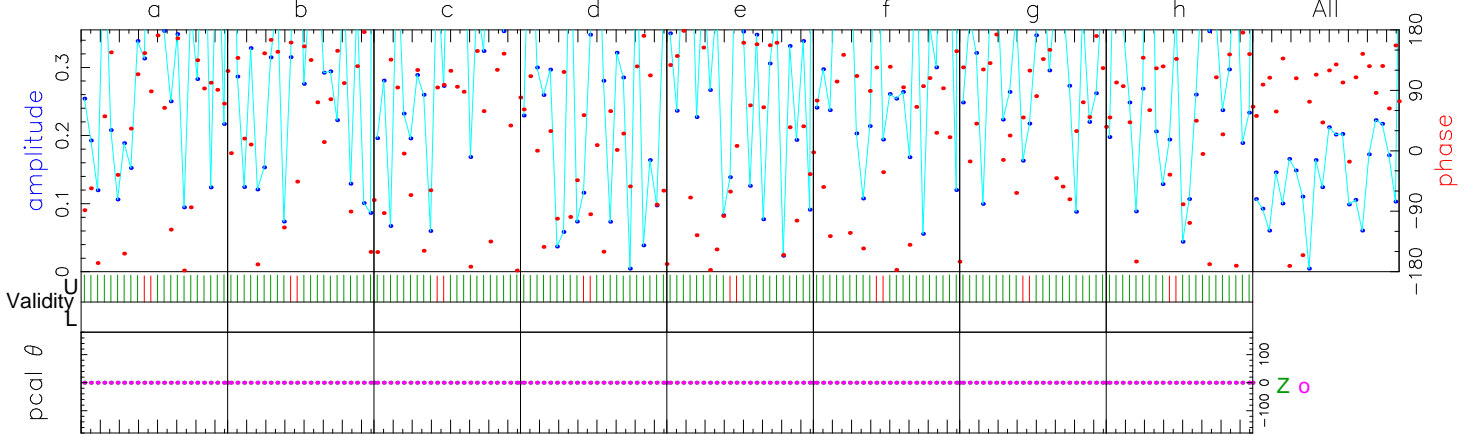


Fringe quality 0

SNR 5.9
 Int time 427.418
 Amp 0.118
 Phase 109.1
 PFD 5.8e-01
 Delays (us)
 SBD 0.451557
 MBD 0.002326
 Fringe rate (Hz)
 -0.529923
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210617
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



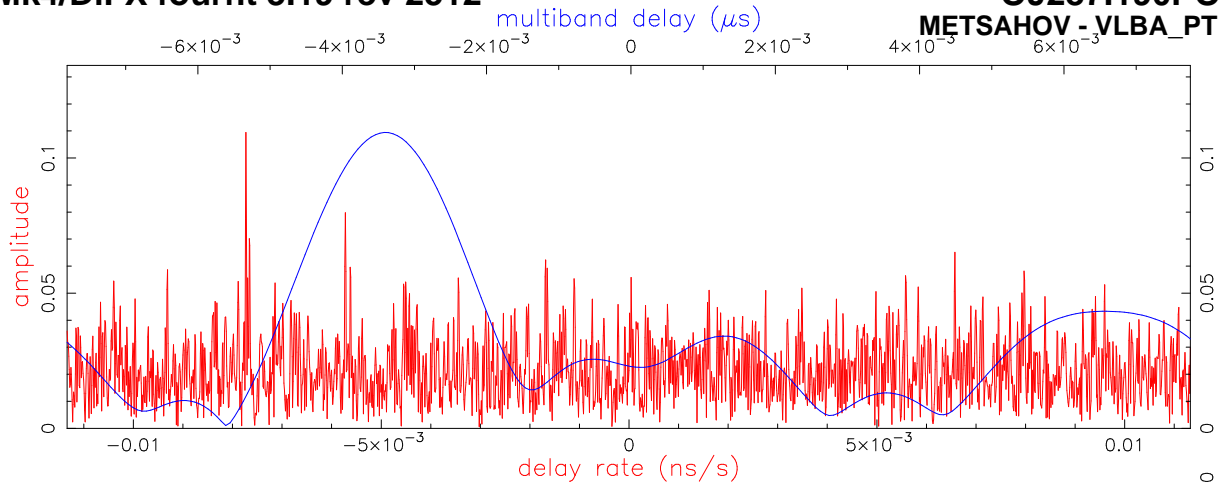
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	5.73945319824E+03	Apriori delay (usec)	5.73899774774E+03	Resid mbdelay (usec)	2.32550E-03	+/-	1.8E-04
Sband delay (usec)	5.73944930499E+03	Apriori clock (usec)	-2.0213840E+01	Resid sbdelay (usec)	4.51557E-01	+/-	1.5E-03
Phase delay (usec)	5.73899775126E+03	Apriori clockrate (us/s)	-1.8500001E-07	Resid phdelay (usec)	3.51850E-06	+/-	6.2E-07
Delay rate (us/s)	-1.77205502585E+00	Apriori rate (us/s)	-1.77204887397E+00	Resid rate (us/s)	-6.15188E-06	+/-	2.5E-09
Total phase (deg)	105.7	Apriori accel (us/s/s)	-2.04521016030E-05	Resid phase (deg)	109.1	+/-	19.4

ph/seg (deg)	48.3	Theor.	46.5	Amplitude	0.118 +/- 0.020	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	62.9		81.1	Search (2048X32)	0.098	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	48.8		27.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	42.0		47.8	Inc. seg. avg.	0.116	Sample rate (MSamp/s):	128		dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.117	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

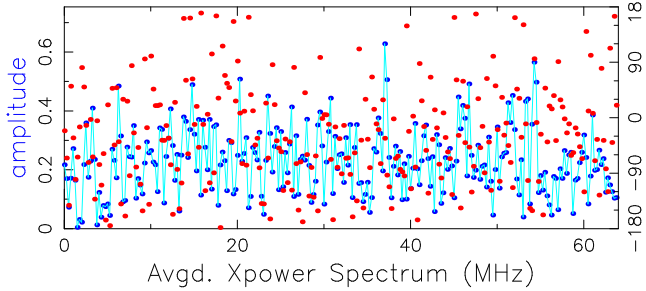
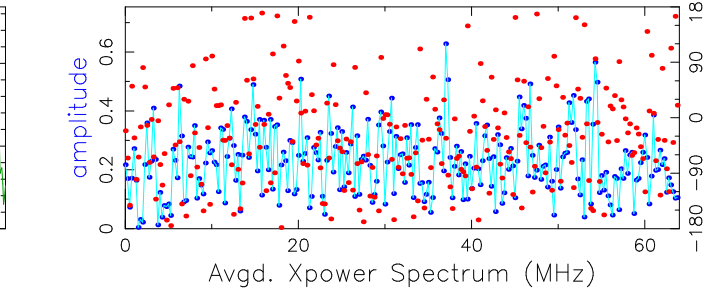
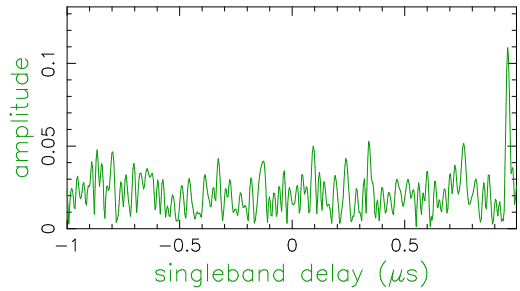
Z: az 250.5 el 33.6 pa 29.9 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) 10763.654 1545.849 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Zo..190POF Output file: /Exps/c201c/v1/1234/No0032/Zo.W.238.190POF



Fringe quality 0

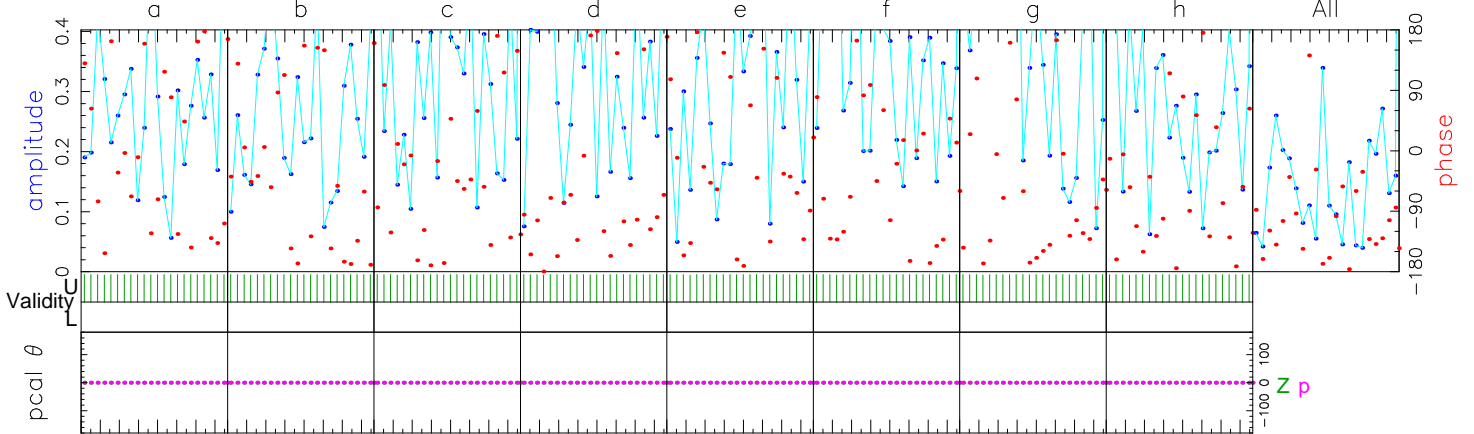
SNR 6.3
 Int time 438.419
 Amp 0.134
 Phase -125.1
 PFD 7.9e-02
 Delays (us)
 SBD 0.957932
 MBD -0.003404
 Fringe rate (Hz)
 -0.666545
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Avgd. Xpower Spectrum (MHz)

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210606
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

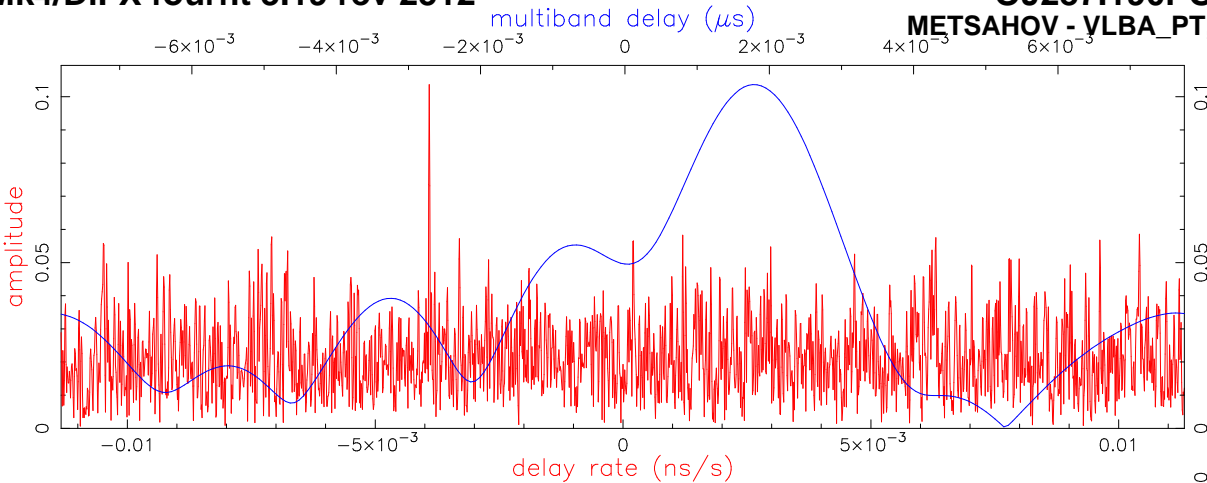


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-125.5	-153.0	-106.5	-125.4	-114.9	-110.6	-148.1	-113.6	Phase	-125.1
	0.2	0.1	0.1	0.3	0.1	0.1	0.2	0.1	Ampl.	0.1
	427.6	34.8	441.9	503.1	479.9	131.6	79.7	409.2	Sbd box	502.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

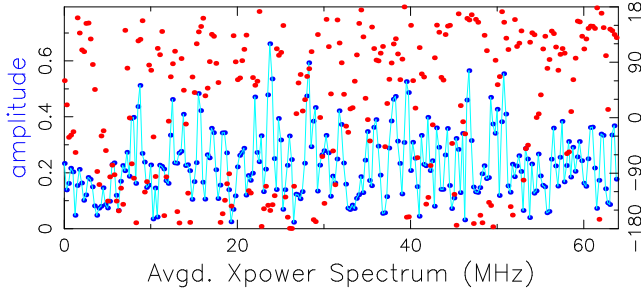
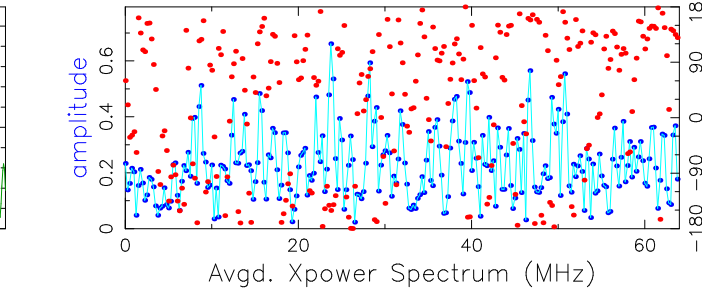
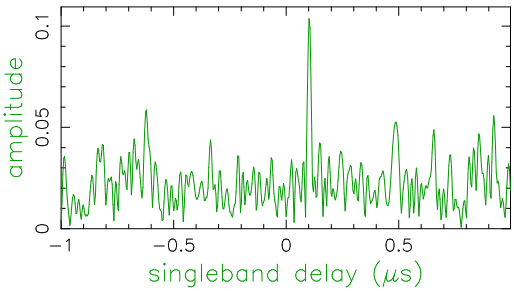
Group delay (usec)(sbd)	3.10848205879E+03	Apriori delay (usec)	3.10751671256E+03	Resid mbdelay (usec)	-3.40377E-03	+/-	1.7E-04
Sband delay (usec)	3.10847464481E+03	Apriori clock (usec)	-1.7405390E+01	Resid sbdelay (usec)	9.57932E-01	+/-	1.4E-03
Phase delay (usec)	3.10751670853E+03	Apriori clockrate (us/s)	-1.8799999E-07	Resid phdelay (usec)	-4.03305E-06	+/-	5.9E-07
Delay rate (us/s)	-1.77741051264E+00	Apriori rate (us/s)	-1.77740277472E+00	Resid rate (us/s)	-7.73792E-06	+/-	2.3E-09
Total phase (deg)		Apriori accel (us/s/s)	-4.84647685724E-06	Resid phase (deg)	-125.1	+/-	18.2

ph/seg (deg)	51.0	Theor.	43.6	Amplitude	0.134 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	87.8		76.2	Search (2048X32)	0.106	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	18.7		25.7	Inc. seg. avg.	0.137	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	45.2		44.9	Inc. frq. avg.	0.126	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	

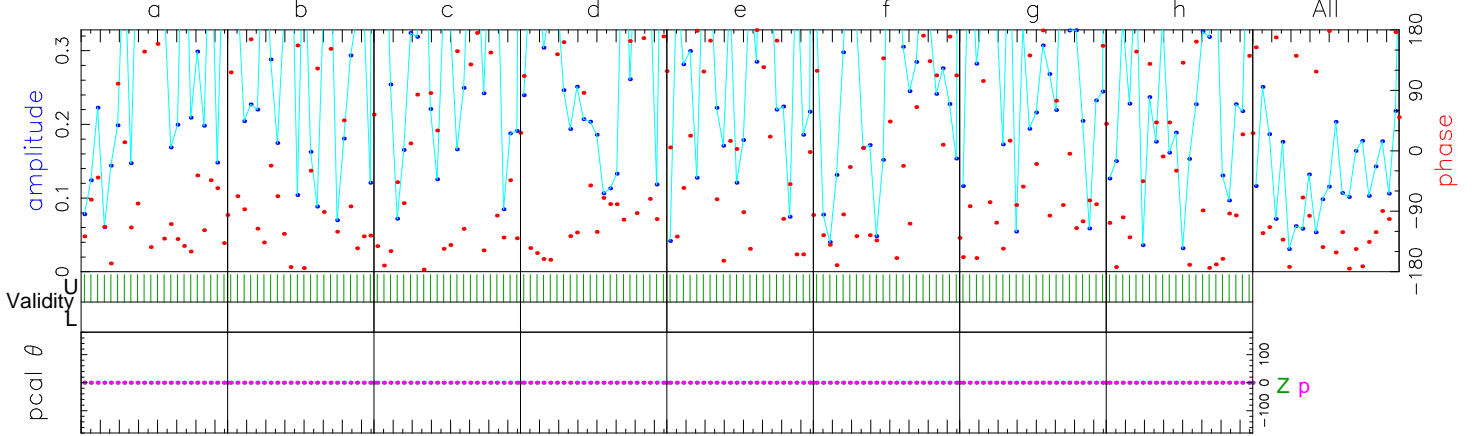
Z: az 250.5 el 33.6 pa 29.9 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 10821.693 2337.108 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Zp..190POF Output file: /Exps/c201c/v1/1234/No0032/Zp.W.204.190POF



Fringe quality 0
 SNR 6.0
 Int time 438.419
 Amp 0.109
 Phase -142.9
 PFD 4.7e-01
 Delays (us)
 SBD 0.102504
 MBD 0.001797
 Fringe rate (Hz)
 -0.337369
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210610
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

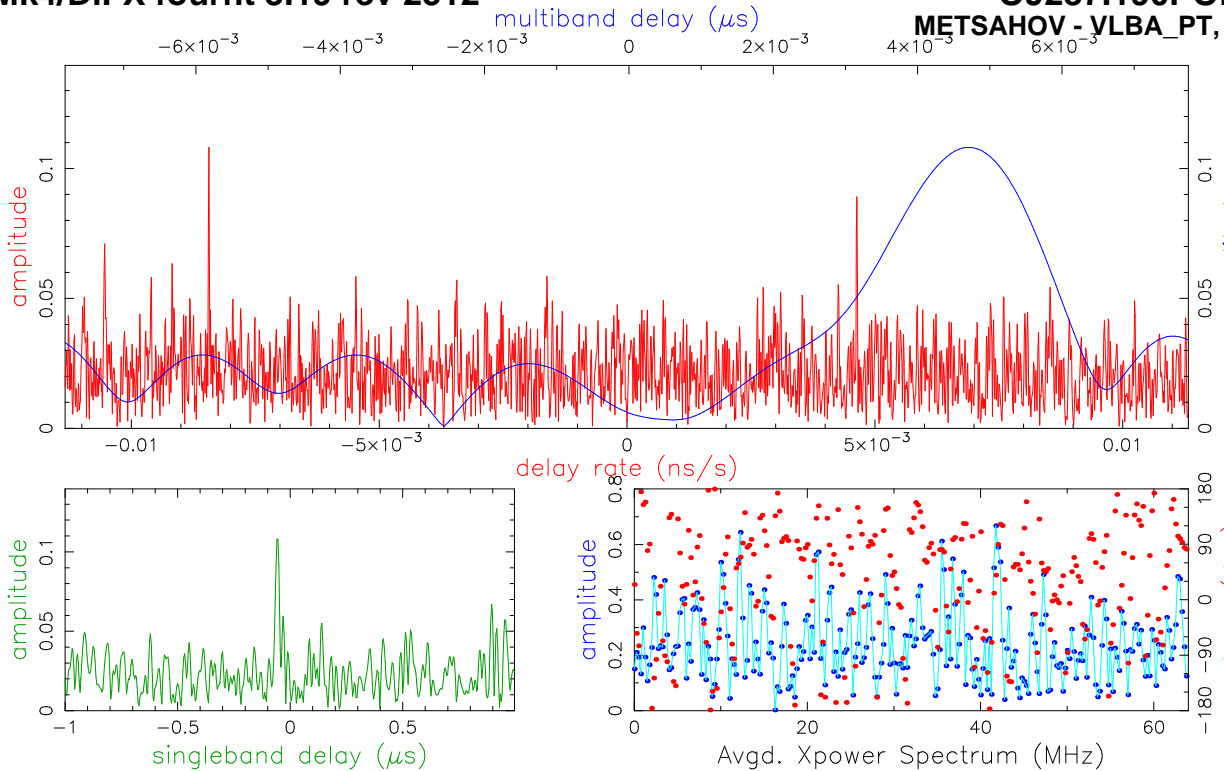


Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



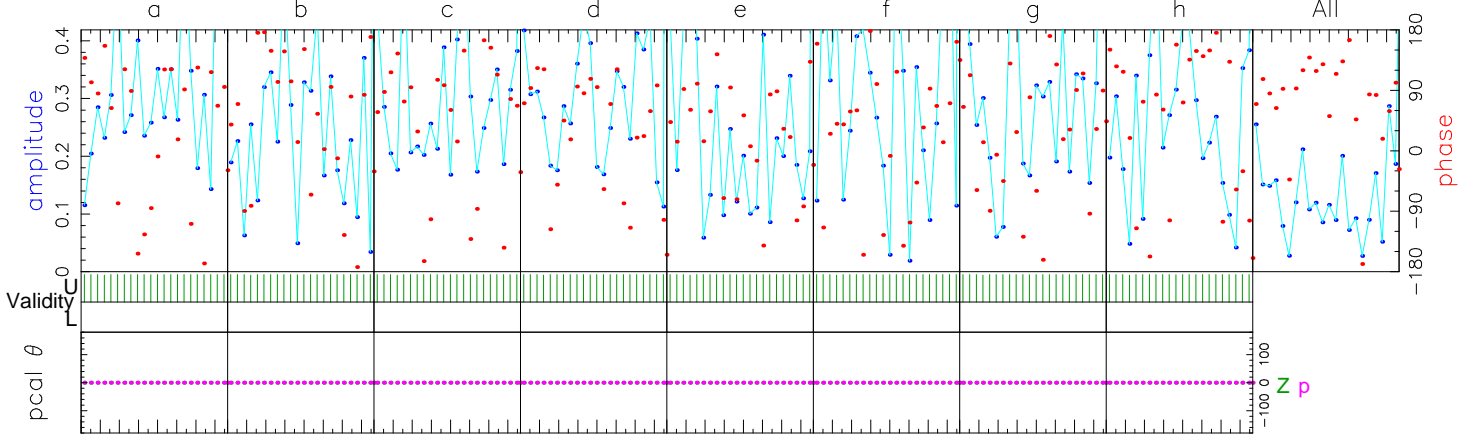
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-125.3	-136.1	-165.9	-149.1	-167.3	159.7	-90.0	-162.8	Phase	-142.9
	0.2	0.2	0.2	0.2	0.1	0.0	0.1	0.1	Ampl.	0.1
	341.2	43.9	277.7	284.1	308.1	83.7	63.6	123.0	Sbd box	283.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.10761225984E+03		Apriori delay (usec)		3.10751671256E+03		Resid mbdelay (usec)		1.79728E-03	+/- 1.8E-04
Sband delay (usec)	3.10761921631E+03		Apriori clock (usec)		-1.7405390E+01		Resid sbdelay (usec)		1.02504E-01	+/- 1.4E-03
Phase delay (usec)	3.10751670795E+03		Apriori clockrate (us/s)		-1.8799999E-07		Resid phdelay (usec)		-4.60926E-06	+/- 6.2E-07
Delay rate (us/s)	-1.77740669124E+00		Apriori rate (us/s)		-1.77740277472E+00		Resid rate (us/s)		-3.91652E-06	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		-4.84647685724E-06		Resid phase (deg)		-142.9	+/- 19.2

ph/seg (deg) 44.2 46.1 Amplitude 0.109 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 60.9 80.4 Search (2048X32) 0.100 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 36.5 27.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 49.4 47.4 Inc. seg. avg. 0.103 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 250.5 el 33.6 pa 29.9 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 10821.693 2337.108 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Zp..190POF Output file: /Exps/c201c/v1/1234/No0032/Zp.W.220.190POF



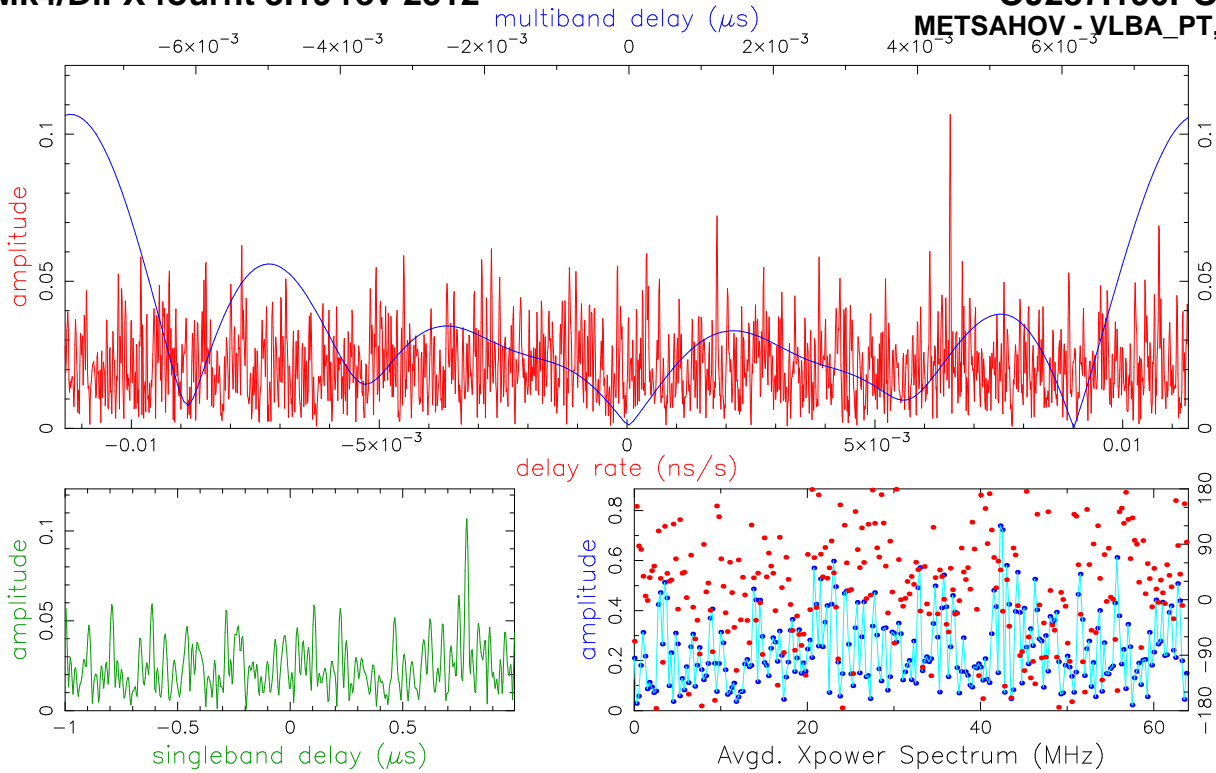
Fringe quality 0
 SNR 6.3
 Int time 438.419
 Amp 0.140
 Phase 92.2
 PFD 8.1e-02
 Delays (us)
 SBD -0.056513
 MBD 0.004740
 Fringe rate (Hz)
 -0.727462
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210613
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



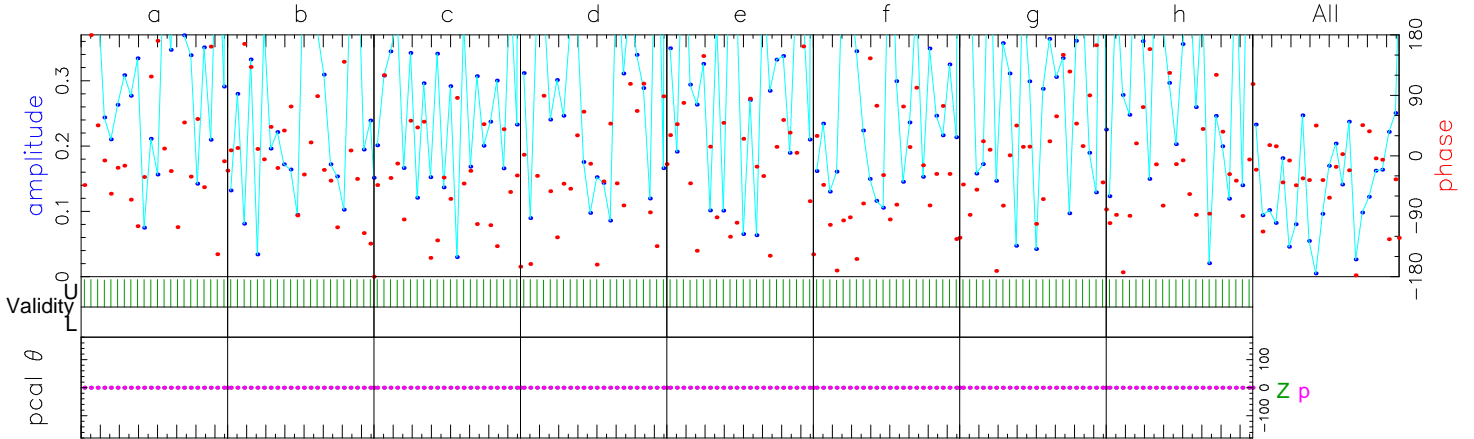
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
106.2	108.5	102.5	71.7	66.5	77.0	71.8	147.3	147.3	Phase	92.2
0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1
152.5	485.1	475.3	334.5	413.8	185.9	372.4	9.6	9.6	Sbd box	242.5
U/L 859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:p 0:0	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	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.10745895222E+03		Apriori delay (usec)		3.10751671256E+03		Resid mbdelay (usec)		4.73966E-03	+/- 1.7E-04
Sband delay (usec)	3.10746019981E+03		Apriori clock (usec)		-1.7405390E+01		Resid sbdelay (usec)		-5.65128E-02	+/- 1.4E-03
Phase delay (usec)	3.10751671554E+03		Apriori clockrate (us/s)		-1.8799999E-07		Resid phdelay (usec)		2.97371E-06	+/- 5.9E-07
Delay rate (us/s)	-1.77741121983E+00		Apriori rate (us/s)		-1.77740277472E+00		Resid rate (us/s)		-8.44511E-06	+/- 2.3E-09
Total phase (deg)	315.5		Apriori accel (us/s/s)		-4.84647685724E-06		Resid phase (deg)		92.2	+/- 18.2

ph/seg (deg) 49.1 43.7 Search (2048X32) 0.105 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 64.7 76.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 29.8 25.7 Inc. seg. avg. 0.128 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 20.9 44.9 Inc. frq. avg. 0.137 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 250.5 el 33.6 pa 29.9 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 10821.693 2337.108 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Zp..190POF Output file: /Exps/c201c/v1/1234/No0032/Zp.W.232.190POF



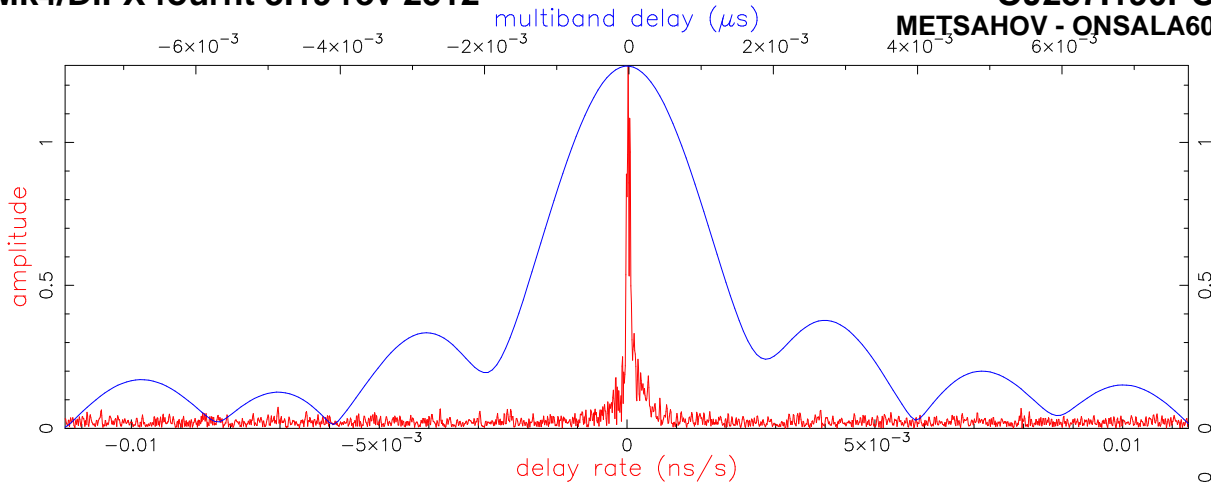
Fringe quality 0
 SNR 6.1
 Int time 438.419
 Amp 0.123
 Phase -26.1
 PFD 2.0e-01
 Delays (us)
 SBD 0.784262
 MBD 0.007855
 Fringe rate (Hz)
 0.562480
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210617
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



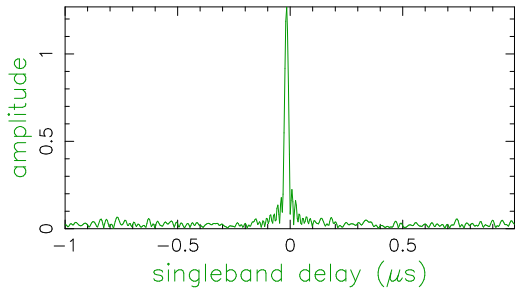
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-42.8	-0.9	-42.7	-18.0	-7.7	-72.4	-9.2	-21.6	Phase	-26.1
	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	Ampl.	0.1
	6.7	360.7	464.4	159.3	484.3	357.9	273.9	38.9	Sbd box	457.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.10830581793E+03		Apriori delay (usec)		3.10751671256E+03		Resid mbdelay (usec)		7.85537E-03	+/- 1.8E-04
Sband delay (usec)	3.10830097431E+03		Apriori clock (usec)		-1.7405390E+01		Resid sbdelay (usec)		7.84262E-01	+/- 1.4E-03
Phase delay (usec)	3.10751671172E+03		Apriori clockrate (us/s)		-1.8799999E-07		Resid phdelay (usec)		-8.41910E-07	+/- 6.0E-07
Delay rate (us/s)	-1.77739624488E+00		Apriori rate (us/s)		-1.77740277472E+00		Resid rate (us/s)		6.52984E-06	+/- 2.4E-09
Total phase (deg)	197.1		Apriori accel (us/s/s)		-4.84647685724E-06		Resid phase (deg)		-26.1	+/- 18.7

ph/seg (deg) 53.2 44.7 Amplitude 0.123 +/- 0.020 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.5 78.1 Search (2048X32) 0.104 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 26.0 26.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 33.9 46.1 Inc. seg. avg. 0.121 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Z: az 250.5 el 33.6 pa 29.9 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) 10821.693 2337.108 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Zp..190POF Output file: /Exps/c201c/v1/1234/No0032/Zp.W.237.190POF simultaneous interpolator

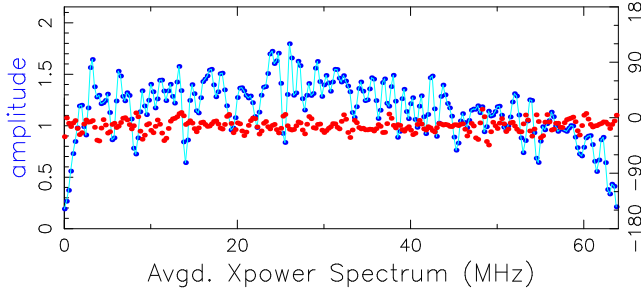


Fringe quality 4

SNR 72.8
 Int time 439.180
 Amp 1.269
 Phase 161.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.016149
 MBD -0.000035
 Fringe rate (Hz)
 0.001638
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

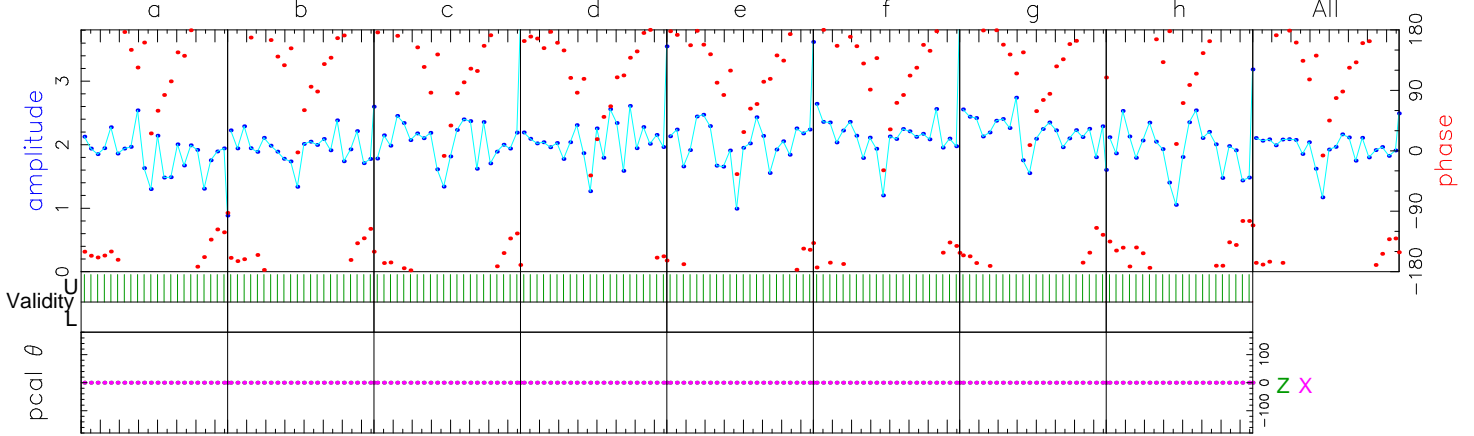


delay rate (ns/s)



Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210607
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

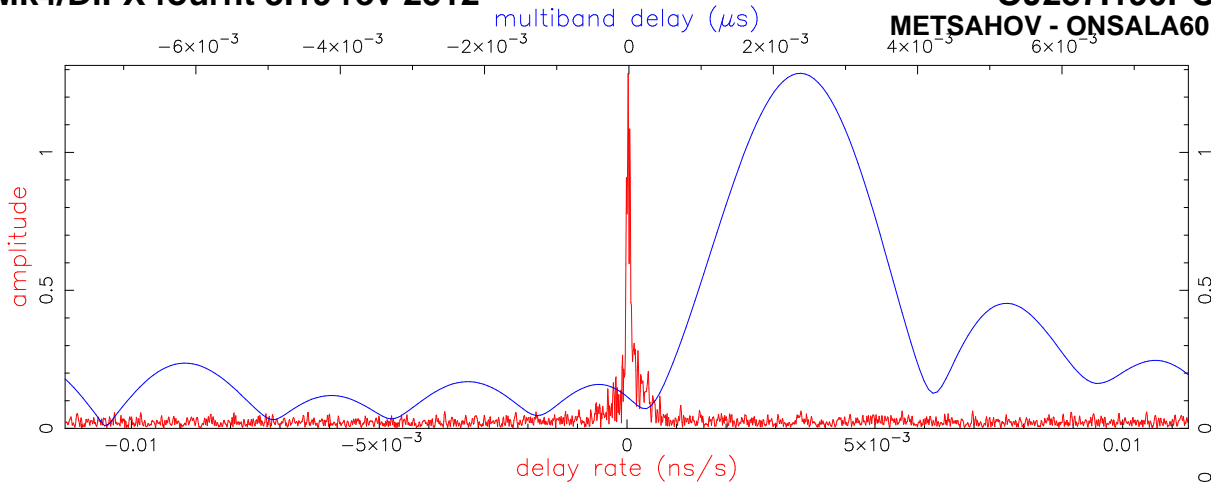


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	178.2	168.3	158.0	139.7	144.4	155.5	163.3	-175.6	Phase	161.2
	1.2	1.3	1.3	1.3	1.3	1.4	1.3	1.3	Ampl.	1.3
	252.6	252.5	252.8	252.8	253.1	253.0	253.1	253.3	Sbd box	252.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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)	-2.14134840605E+03	Apriori delay (usec)	-2.14133274582E+03	Resid mbdelay (usec)	-3.52281E-05	+/-	1.5E-05
Sband delay (usec)	-2.14134889432E+03	Apriori clock (usec)	-4.0905655E+01	Resid sbdelay (usec)	-1.61485E-02	+/-	1.2E-04
Phase delay (usec)	-2.14133274062E+03	Apriori clockrate (us/s)	-5.1200000E-07	Resid phdelay (usec)	5.19973E-06	+/-	5.1E-08
Delay rate (us/s)	-5.40551741296E-02	Apriori rate (us/s)	-5.40551931403E-02	Resid rate (us/s)	1.90106E-08	+/-	2.0E-10
Total phase (deg)	-99.8	Apriori accel (us/s/s)	1.21581537524E-05	Resid phase (deg)	161.2	+/-	1.6

ph/seg (deg)	59.2	RMS	59.2	Theor.	3.8	Amplitude	1.269 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	55.3		55.3		6.6	Search (2048X32)	1.231	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	16.7		16.7		2.2	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	5.6		5.6		3.9	Inc. seg. avg.	1.933	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Inc. frq. avg.	1.307	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

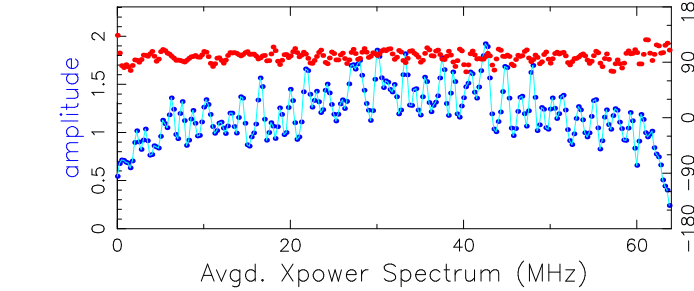
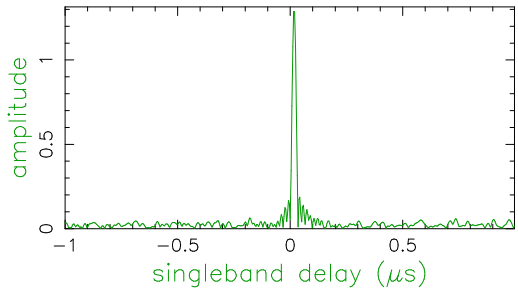
Z: az 250.5 el 33.6 pa 29.9 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) 349.331 559.458 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/ZX..190POF Output file: /Exps/c201c/v1/1234/No0032/ZX.W.207.190POF



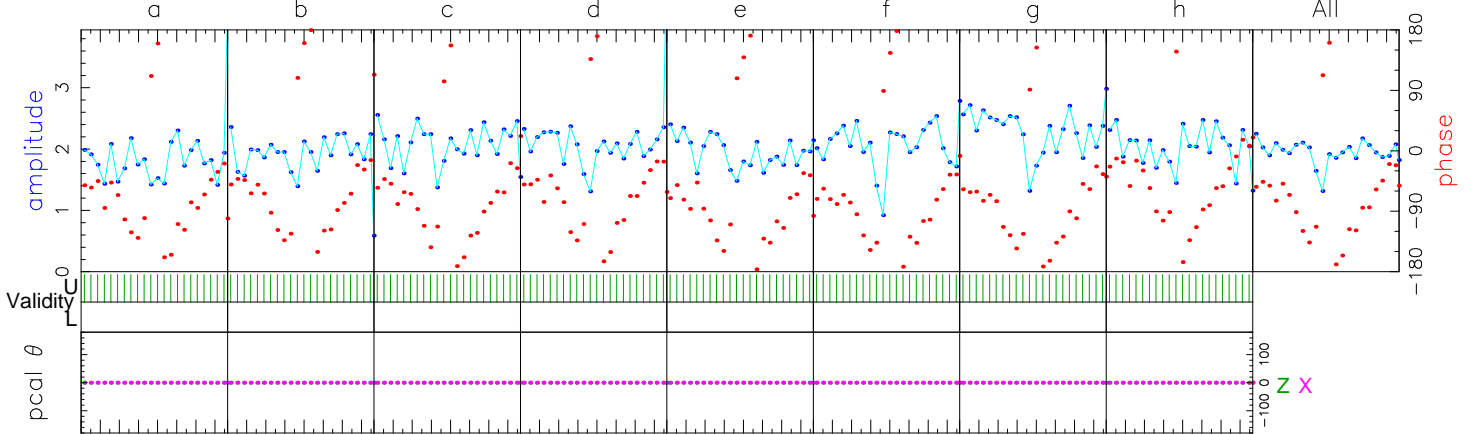
Fringe quality 4

SNR 75.4
 Int time 439.180
 Amp 1.315
 Phase -85.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.017536
 MBD 0.002322
 Fringe rate (Hz) 0.001660
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

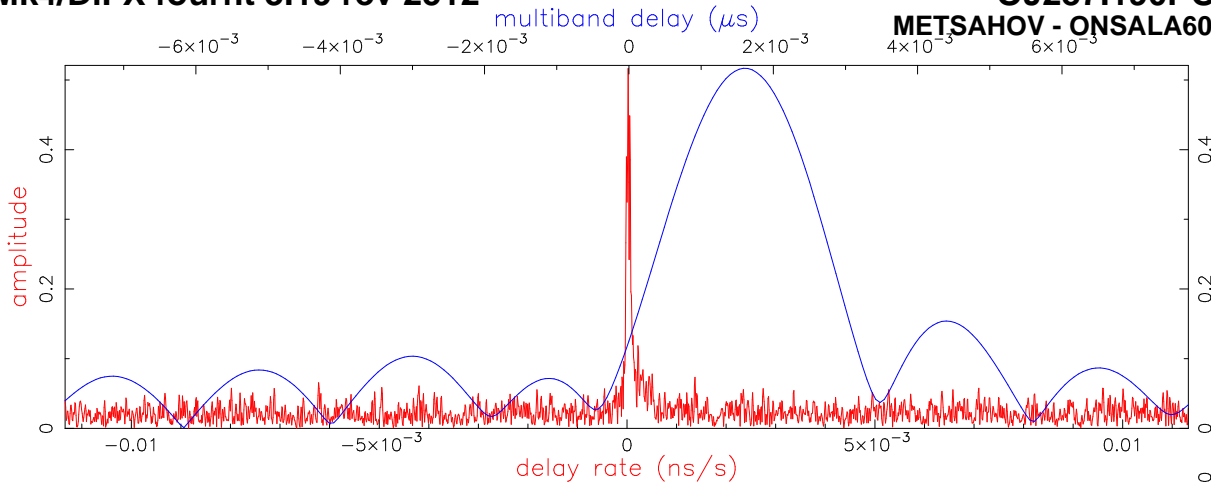
Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210611
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



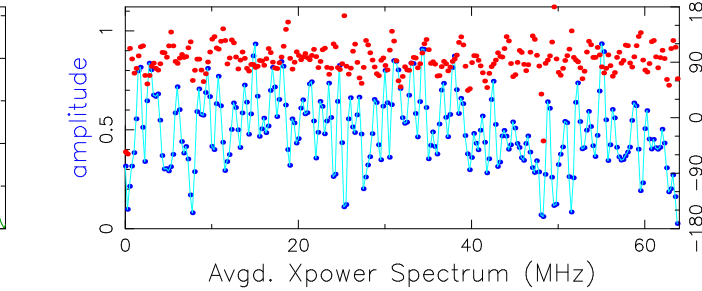
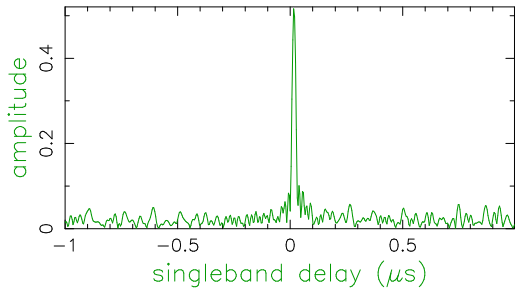
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	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)	-2.14131479840E+03								2.32243E-03	+/- 1.4E-05
Sband delay (usec)	-2.14131521032E+03								1.75355E-02	+/- 1.1E-04
Phase delay (usec)	-2.14133274858E+03								-2.75790E-06	+/- 4.9E-08
Delay rate (us/s)	-5.40551738724E-02								1.92678E-08	+/- 1.9E-10
Total phase (deg)			-346.6						-85.5	+/- 1.5
	RMS	Theor.	Amplitude	1.315 +/- 0.017					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	58.0	3.6	Search (2048X32)	1.252					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	50.7	6.4	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	15.9	2.2	Inc. seg. avg.	1.950					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	7.7	3.8	Inc. frq. avg.	1.322					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
Z: az 250.5 el 33.6 pa 29.9			X: az 239.7 el 40.6 pa 29.7						u,v (fr/asec) 349.331 559.458	simultaneous interpolator



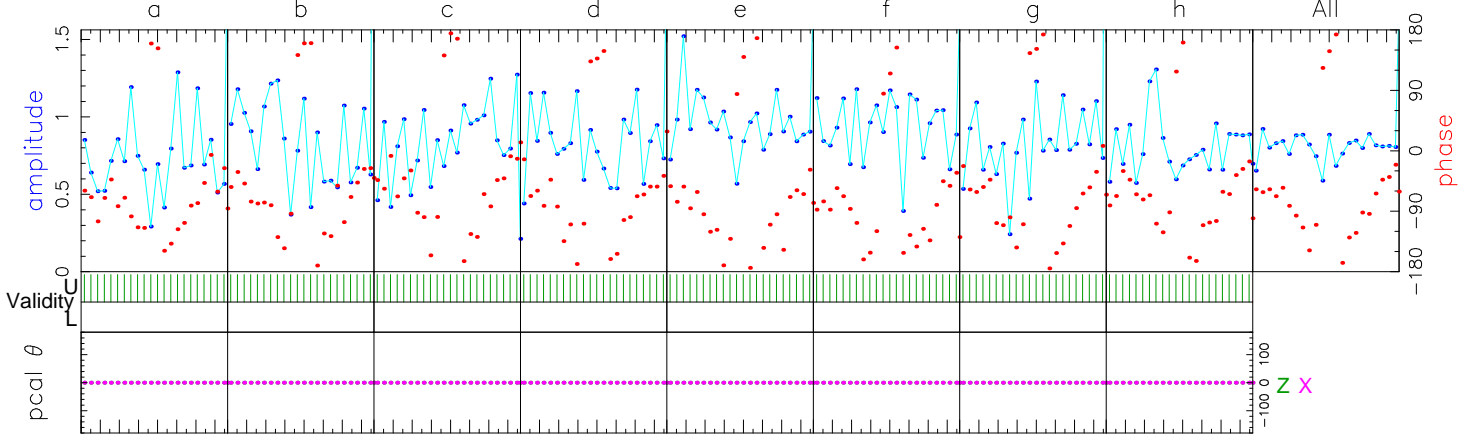
Fringe quality 7

SNR 29.9
 Int time 439.180
 Amp 0.521
 Phase -92.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.016796
 MBD 0.001643
 Fringe rate (Hz) 0.001674
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210614
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"



Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



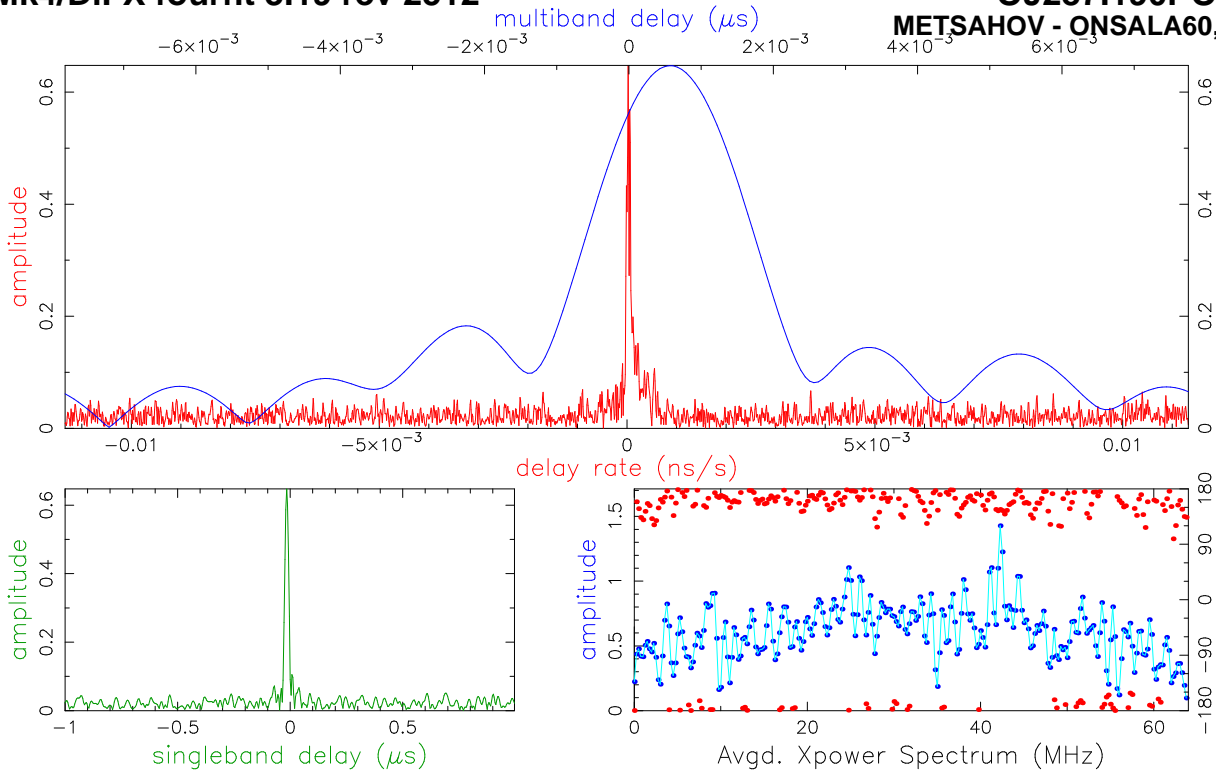
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-86.9	-88.9	-82.4	-93.6	-101.9	-106.0	-96.6	-81.3	Phase	-92.3
	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.6	Ampl.	0.5
	260.8	261.0	261.7	261.0	261.2	261.7	261.7	262.4	Sbd box	261.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	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)	-2.14131547746E+03	Apriori delay (usec)	-2.14133274582E+03	Resid mbdelay (usec)	1.64337E-03	+/-	3.6E-05
Sband delay (usec)	-2.14131595007E+03	Apriori clock (usec)	-4.0905655E+01	Resid sbdelay (usec)	1.67958E-02	+/-	2.9E-04
Phase delay (usec)	-2.14133274880E+03	Apriori clockrate (us/s)	-5.1200000E-07	Resid phdelay (usec)	-2.97781E-06	+/-	1.2E-07
Delay rate (us/s)	-5.40551737010E-02	Apriori rate (us/s)	-5.40551931403E-02	Resid rate (us/s)	1.94393E-08	+/-	4.9E-10
Total phase (deg)	-353.4	Apriori accel (us/s/s)	1.21581537524E-05	Resid phase (deg)	-92.3	+/-	3.8

ph/seg (deg)	57.4	RMS	9.2	Theor.	5.21 +/- 0.017	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	56.9	Search (2048X32)	0.502	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	9.7	Inc. seg. avg.	0.795	Inc. frq. avg.	0.520	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	8.5	Inc. frq. avg.	0.520	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

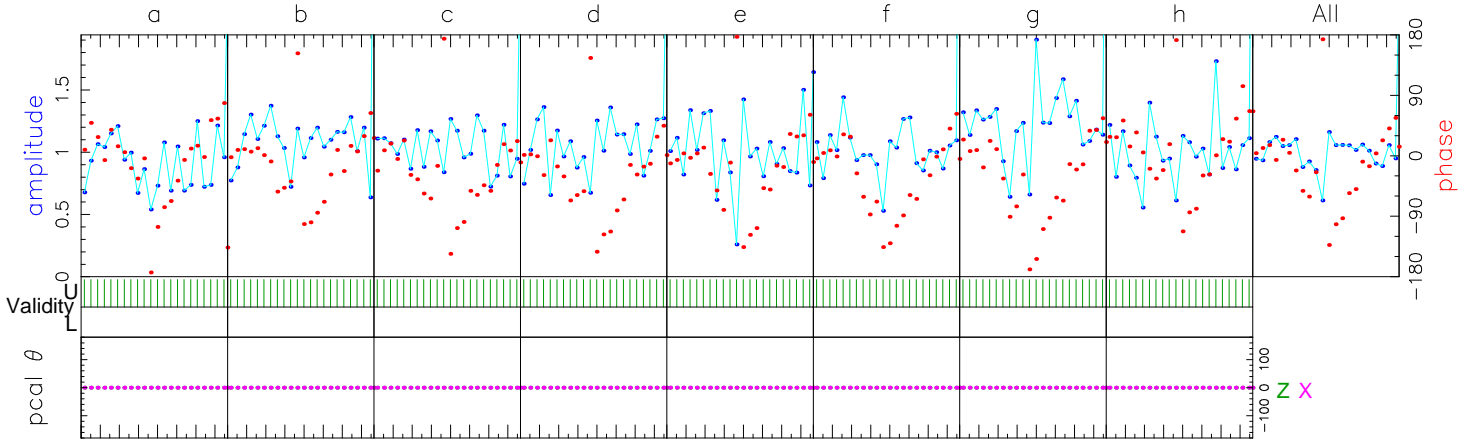
Z: az 250.5 el 33.6 pa 29.9 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) 349.331 559.458 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/ZX..190POF Output file: /Exps/c201c/v1/1234/No0032/ZX.W.234.190POF



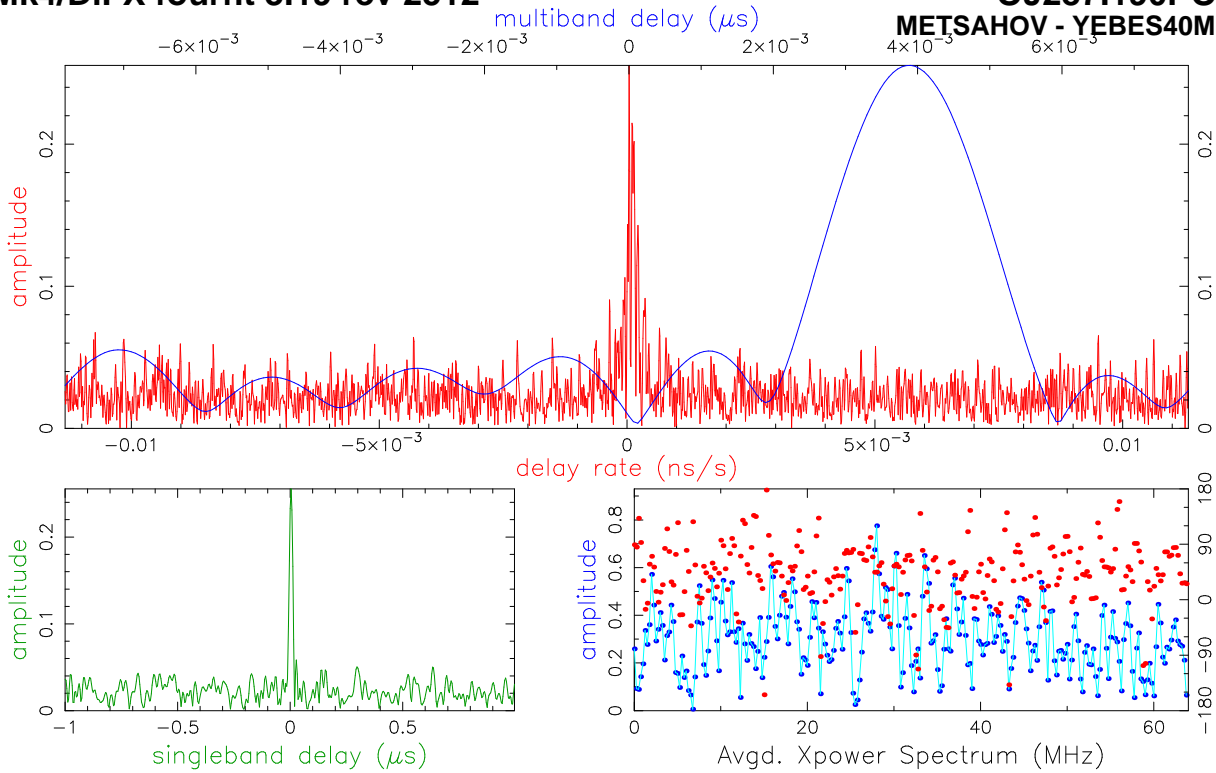
Fringe quality 6
 SNR 37.1
 Int time 439.180
 Amp 0.648
 Phase -18.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.015321
 MBD 0.000577
 Fringe rate (Hz) 0.001674
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210617
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	5.4	-15.9	-32.1	-33.5	-20.0	-24.7	-24.3	5.0	Phase	-18.0
	0.6	0.7	0.7	0.7	0.6	0.6	0.7	0.6	Ampl.	0.7
	252.7	252.6	253.3	253.2	253.2	253.0	253.4	253.7	Sbd box	253.1
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	-2.14134779340E+03		Apriori delay (usec)		-2.14133274582E+03		Resid mbdelay (usec)		5.77428E-04	+/- 2.9E-05
Sband delay (usec)	-2.14134806632E+03		Apriori clock (usec)		-4.0905655E+01		Resid sbdelay (usec)		-1.53205E-02	+/- 2.3E-04
Phase delay (usec)	-2.14133274640E+03		Apriori clockrate (us/s)		-5.1200000E-07		Resid phdelay (usec)		-5.79690E-07	+/- 1.0E-07
Delay rate (us/s)	-5.40551737024E-02		Apriori rate (us/s)		-5.40551931403E-02		Resid rate (us/s)		1.94379E-08	+/- 3.9E-10
Total phase (deg)			Apriori accel (us/s/s)		1.21581537524E-05		Resid phase (deg)		-18.0	+/- 3.1

ph/seg (deg) 58.7 7.4 Search (2048X32) 0.632 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 56.8 12.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 16.4 4.4 Inc. seg. avg. 0.985 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 6.5 7.6 Inc. frq. avg. 0.665 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 250.5 el 33.6 pa 29.9 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) 349.331 559.458 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/ZX..190POF Output file: /Exps/c201c/v1/1234/No0032/ZX.W.239.190POF

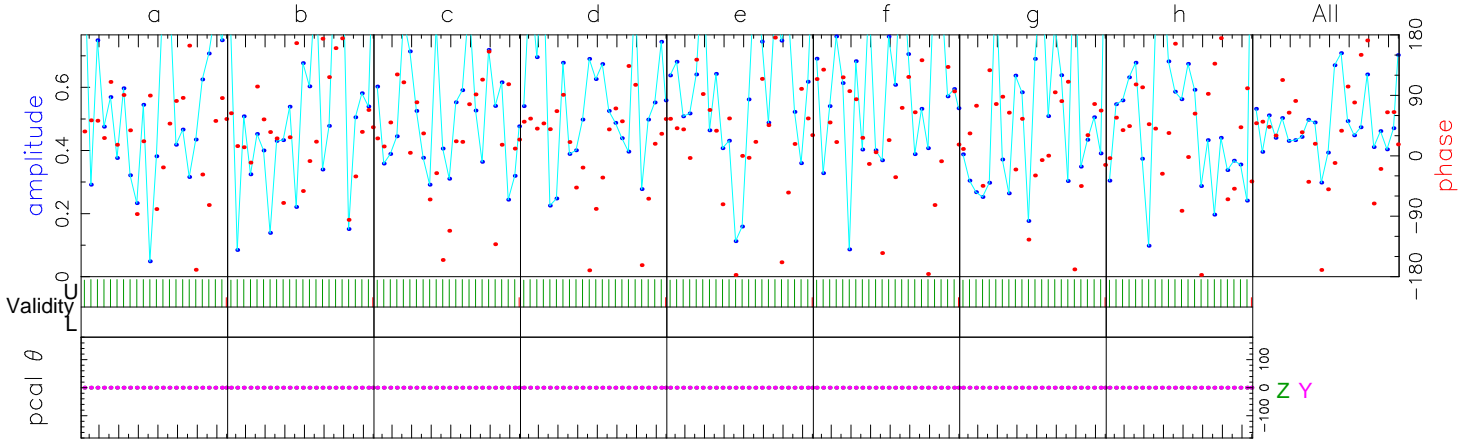


Fringe quality 9

SNR 14.5
 Int time 433.630
 Amp 0.255
 Phase 46.8
 PFD 3.7e-39
 Delays (us)
 SBD 0.003854
 MBD 0.003880
 Fringe rate (Hz) 0.003553
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

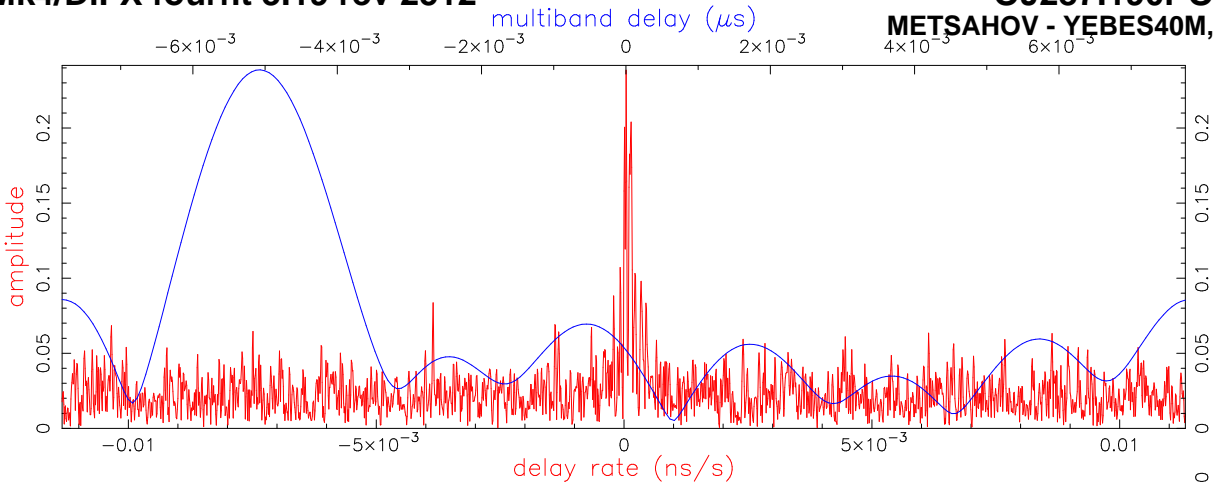
Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210607
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	42.0	47.1	51.8	42.3	52.5	57.1	44.5	37.5	Phase	46.8
	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.2	Ampl.	0.3
	257.9	258.0	258.5	257.9	258.6	257.8	258.1	256.4	Sbd box	258.0
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.25737430485E+03		Apriori delay (usec)		-6.25737818454E+03		Resid mbdelay (usec)		3.87969E-03	+/- 7.5E-05
Sband delay (usec)	-6.25737433079E+03		Apriori clock (usec)		-1.2094316E+01		Resid sbdelay (usec)		3.85375E-03	+/- 5.9E-04
Phase delay (usec)	-6.25737818303E+03		Apriori clockrate (us/s)		-2.0400000E-07		Resid phdelay (usec)		1.50929E-06	+/- 2.5E-07
Delay rate (us/s)	-5.32263590022E-02		Apriori rate (us/s)		-5.32264002452E-02		Resid rate (us/s)		4.12430E-08	+/- 1.0E-09
Total phase (deg)			Apriori accel (us/s/s)		4.16517270864E-05		Resid phase (deg)		46.8	+/- 7.9

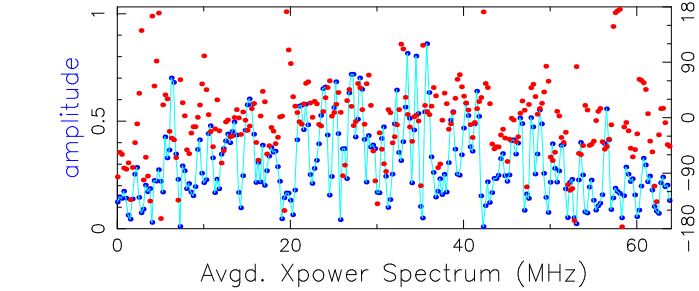
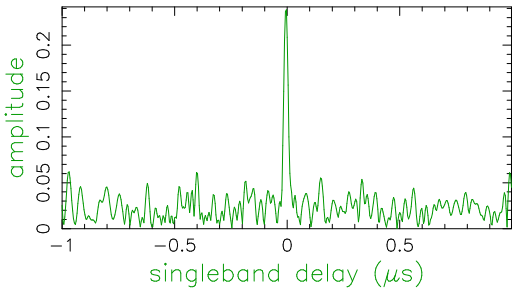
ph/seg (deg) 66.1 18.9 Amplitude 0.255 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 96.4 33.0 Search (2048X32) 0.249 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 7.0 11.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 16.0 19.4 Inc. seg. avg. 0.458 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Z: az 250.5 el 33.6 pa 29.9 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) 390.837 3009.739 ion window (TEC) 0.00 0.00
 simultaneous interpolator



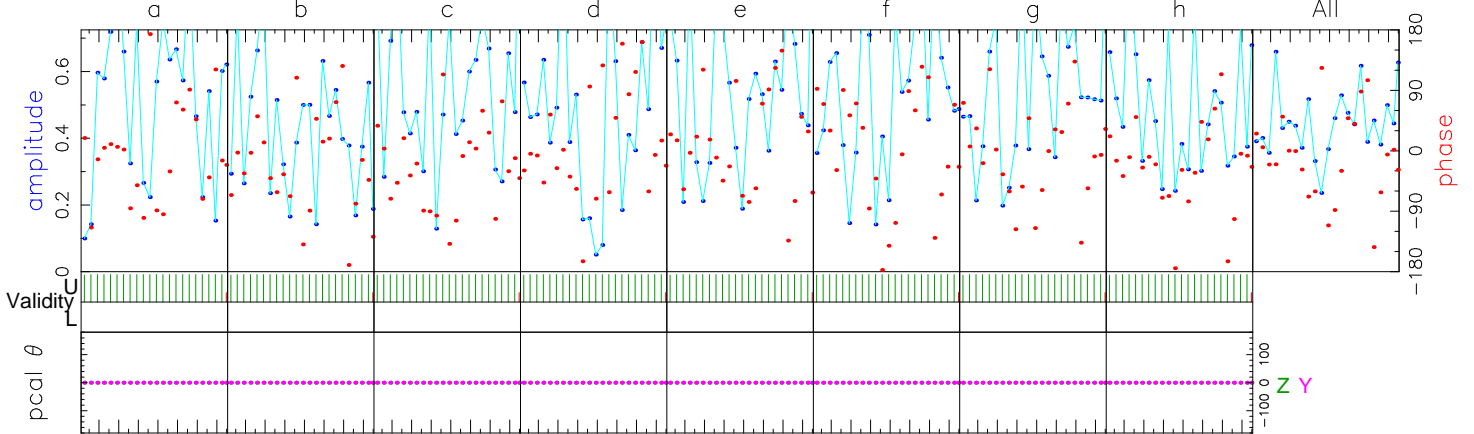
Fringe quality 9

SNR 13.8
 Int time 433.630
 Amp 0.242
 Phase -8.0
 PFD 2.5e-34
 Delays (us)
 SBD -0.005638
 MBD -0.005128
 Fringe rate (Hz) 0.003727
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210611
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

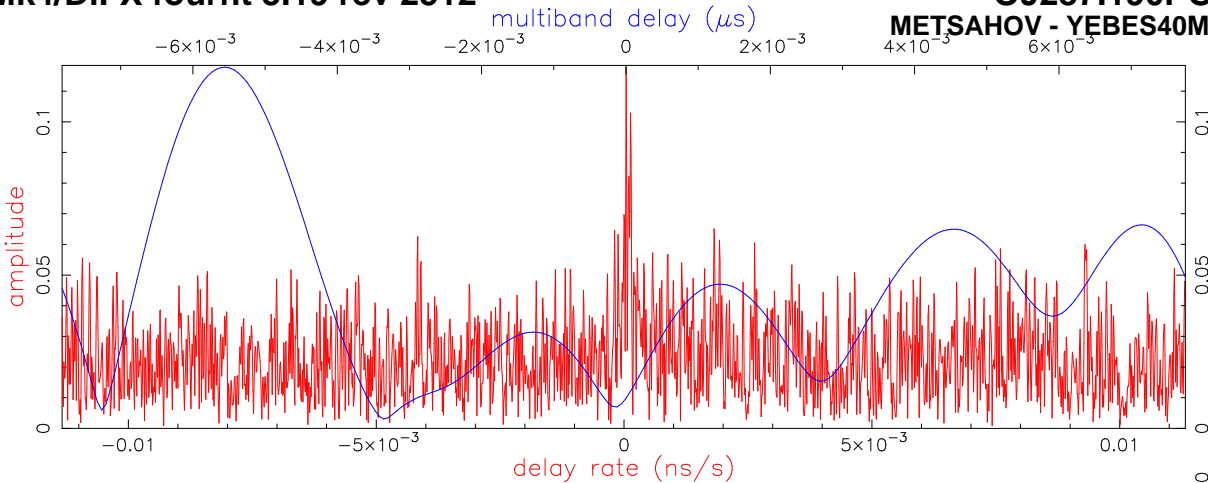


Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec

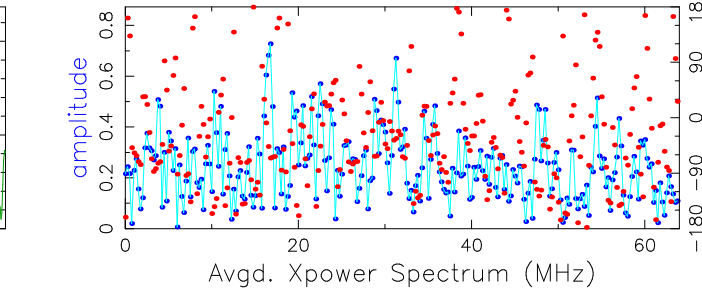
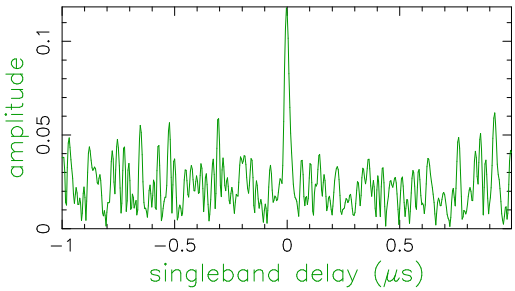


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-8.9	-8.5	-22.0	-9.9	-5.1	35.2	-4.9	-11.3	Phase	-8.0
	0.3	0.2	0.3	0.3	0.2	0.1	0.2	0.3	Ampl.	0.2
	254.3	255.5	256.0	255.4	256.4	402.6	256.0	256.3	Sbd box	255.6
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.25738331281E+03		Apriori delay (usec)		-6.25737818454E+03		Resid mbdelay (usec)		-5.12828E-03	+/- 7.9E-05
Sband delay (usec)	-6.25738382254E+03		Apriori clock (usec)		-1.2094316E+01		Resid sbdelay (usec)		-5.63800E-03	+/- 6.3E-04
Phase delay (usec)	-6.25737818480E+03		Apriori clockrate (us/s)		-2.0400000E-07		Resid phdelay (usec)		-2.57716E-07	+/- 2.7E-07
Delay rate (us/s)	-5.32263569743E-02		Apriori rate (us/s)		-5.32264002452E-02		Resid rate (us/s)		4.32709E-08	+/- 1.1E-09
Total phase (deg)			Apriori accel (us/s/s)		4.16517270864E-05		Resid phase (deg)		-8.0	+/- 8.3

ph/seg (deg) 65.5 20.0 Search (2048X32) 0.233 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 91.0 34.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 18.7 11.8 Inc. seg. avg. 0.416 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 24.5 20.6 Inc. frq. avg. 0.239 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 250.5 el 33.6 pa 29.9 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) 390.837 3009.739 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/ZY..190POF Output file: /Exps/c201c/v1/1234/No0032/ZY.W.226.190POF

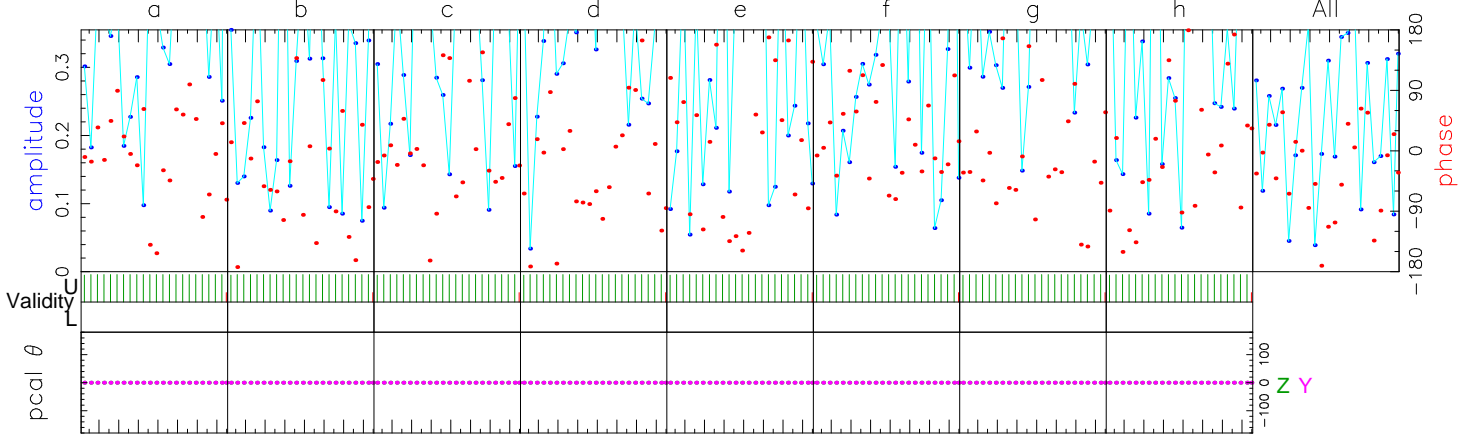


Fringe quality 0
 SNR 6.7
 Int time 433.630
 Amp 0.118
 Phase -17.5
 PFD 4.5e-03
 Delays (us)
 SBD -0.002713
 MBD -0.005532
 Fringe rate (Hz)
 0.003791
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210614
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"



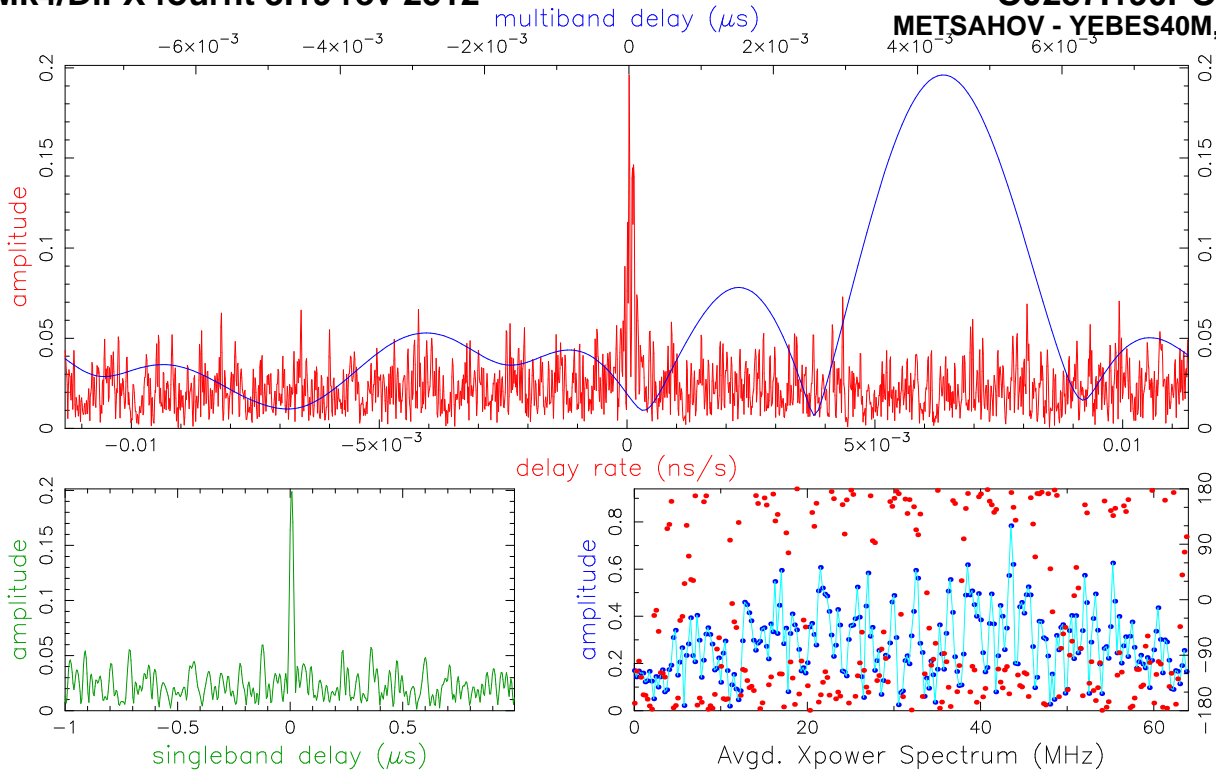
Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	10.8	-82.4	-15.3	-39.7	-6.2	30.5	-35.2	-25.9	Phase	-17.5
	0.2	0.1	0.2	0.1	0.0	0.2	0.2	0.1	Ampl.	0.1
	511.5	33.1	494.8	269.6	474.7	250.1	256.4	7.7	Sbd box	256.3
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.25738371622E+03		Apriori delay (usec)		-6.25737818454E+03		Resid mbdelay (usec)		-5.53168E-03	+/- 1.6E-04
Sband delay (usec)	-6.25738089704E+03		Apriori clock (usec)		-1.2094316E+01		Resid sbdelay (usec)		-2.71250E-03	+/- 1.3E-03
Phase delay (usec)	-6.25737818510E+03		Apriori clockrate (us/s)		-2.0400000E-07		Resid phdelay (usec)		-5.63723E-07	+/- 5.5E-07
Delay rate (us/s)	-5.32263562402E-02		Apriori rate (us/s)		-5.32264002452E-02		Resid rate (us/s)		4.40050E-08	+/- 2.2E-09
Total phase (deg)			Apriori accel (us/s/s)		4.16517270864E-05		Resid phase (deg)		-17.5	+/- 17.0

ph/seg (deg) 65.9 40.8 Search (2048X32) 0.115 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 126.4 71.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 37.3 24.0 Inc. seg. avg. 0.179 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 50.6 42.0 Inc. frq. avg. 0.126 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 250.5 el 33.6 pa 29.9 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) 390.837 3009.739 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/ZY..190POF Output file: /Exps/c201c/v1/1234/No0032/ZY.W.236.190POF

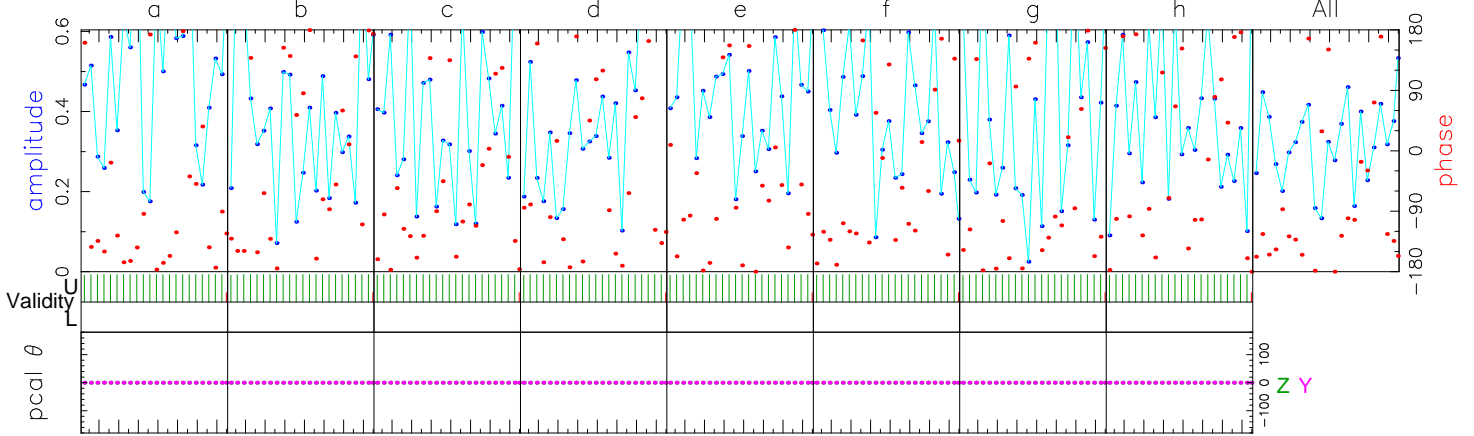


Fringe quality 9

SNR 11.5
 Int time 433.630
 Amp 0.201
 Phase -142.3
 PFD 9.4e-22
 Delays (us)
 SBD 0.006186
 MBD 0.004385
 Fringe rate (Hz) 0.003527
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210618
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 38 APs / seg (19.46 sec / seg.), time ticks 30 sec

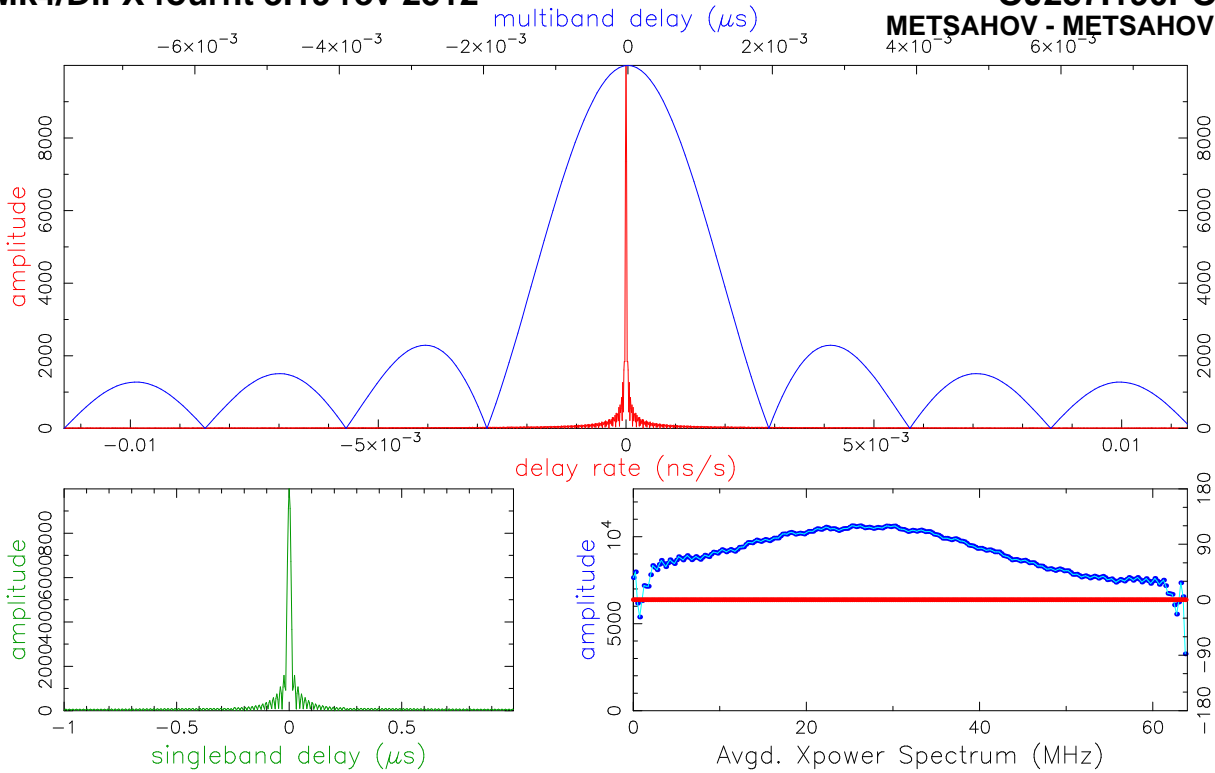


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-141.2	-153.3	-127.5	-158.3	-122.3	-138.0	-143.7	-168.6	Phase	-142.3
	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	Ampl.	0.2
	259.3	258.9	258.0	287.1	259.2	258.2	258.1	29.1	Sbd box	258.6
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.25737379953E+03		Apriori delay (usec)		-6.25737818454E+03		Resid mbdelay (usec)		4.38500E-03	+/- 9.5E-05
Sband delay (usec)	-6.25737199829E+03		Apriori clock (usec)		-1.2094316E+01		Resid sbdelay (usec)		6.18625E-03	+/- 7.5E-04
Phase delay (usec)	-6.25737818913E+03		Apriori clockrate (us/s)		-2.0400000E-07		Resid phdelay (usec)		-4.58853E-06	+/- 3.2E-07
Delay rate (us/s)	-5.32263592991E-02		Apriori rate (us/s)		-5.32264002452E-02		Resid rate (us/s)		4.09461E-08	+/- 1.3E-09
Total phase (deg)			Apriori accel (us/s/s)		4.16517270864E-05		Resid phase (deg)		-142.3	+/- 10.0

	RMS	Theor.	Amplitude	0.201 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	66.8	24.0	Search (2048X32)	0.192	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	74.9	41.8	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	16.9	14.1	Inc. seg. avg.	0.292	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	29.8	24.7	Inc. frq. avg.	0.195	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

Z: az 250.5 el 33.6 pa 29.9 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) 390.837 3009.739 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/ZY..190POF Output file: /Exps/c201c/v1/1234/No0032/ZY.W.241.190POF

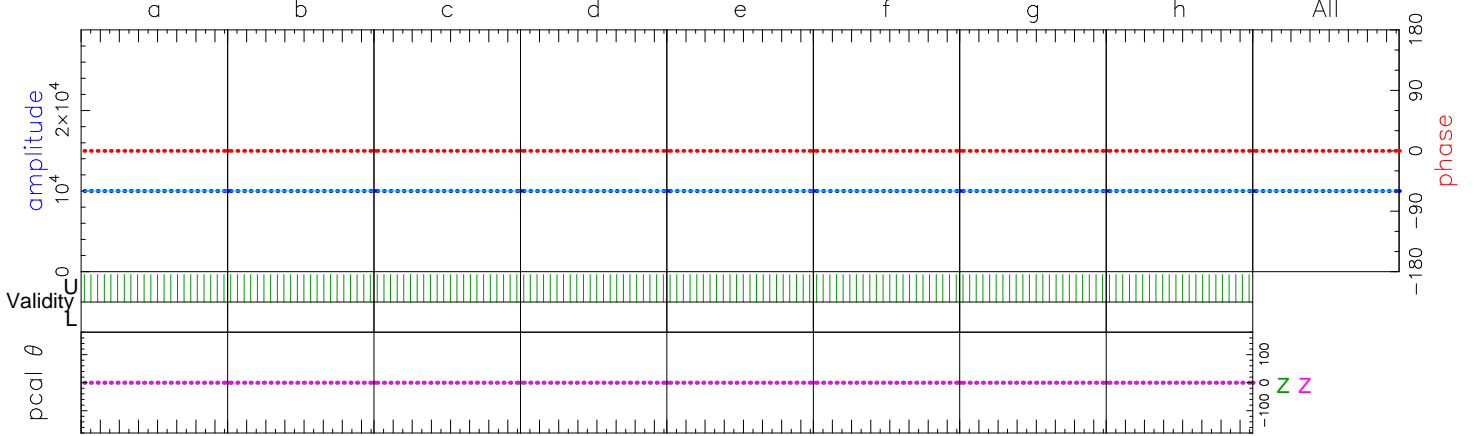


Fringe quality 9

SNR 573108.6
 Int time 439.217
 Amp 9999.990
 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. c201c
 Yr:day 16383
 Start 2020:117
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210607
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

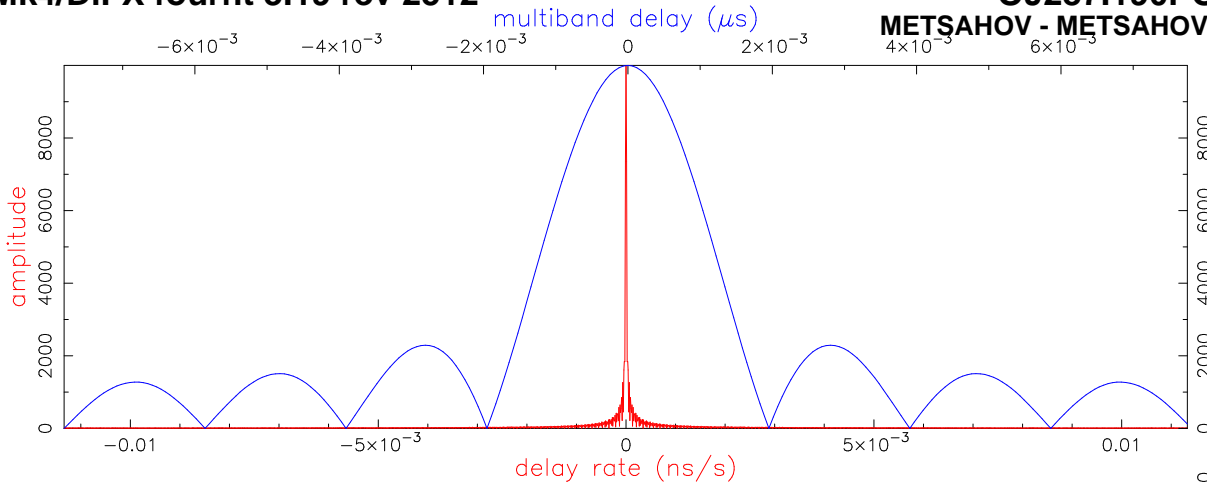


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	Ampl.	10000.0
Z	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
Z	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 1.9E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.5E-08
 Phase delay (usec) 8.32321188085E-20 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 8.32321E-20 +/- 6.4E-12
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 2.5E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

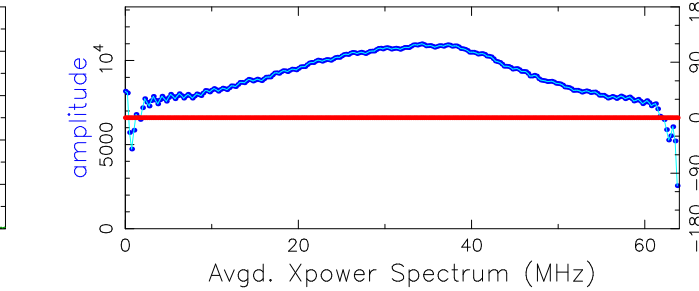
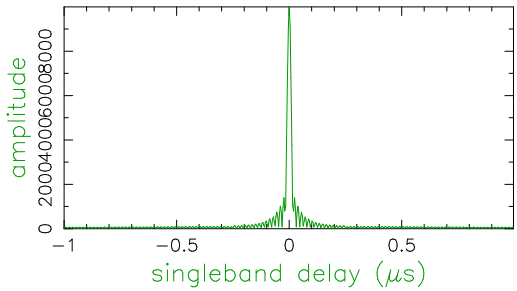
RMS Theor. Amplitude 9999.990 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 9999.991 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.990 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 250.5 el 33.6 pa 29.9 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/ZZ..190POF Output file: /Exps/c201c/v1/1234/No0032/ZZ.W.210.190POF



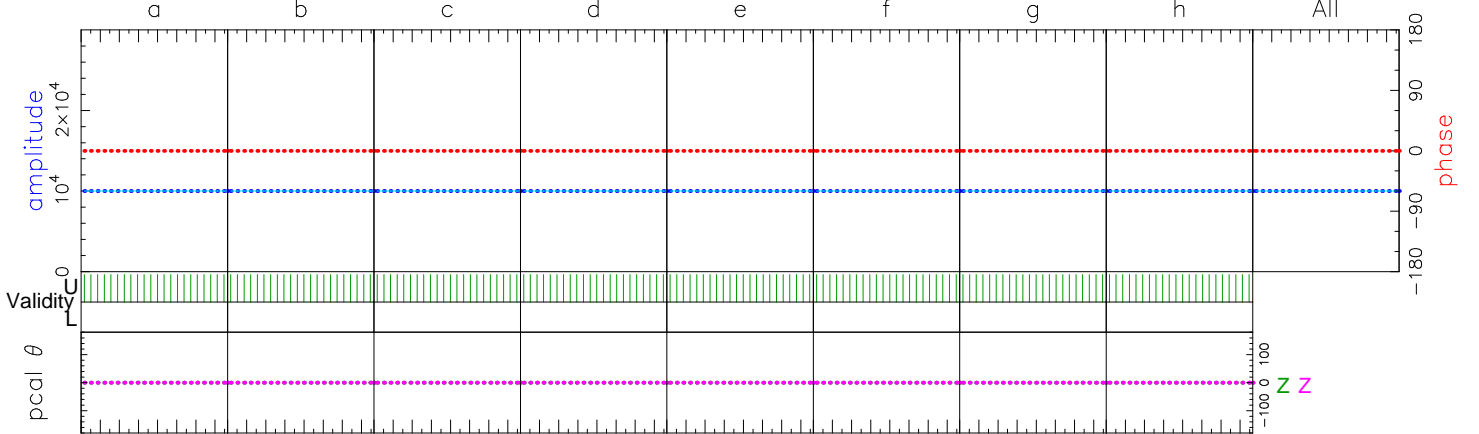
Fringe quality 9

SNR 573108.6
 Int time 439.217
 Amp 9999.990
 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. c201c
 Yr:day 16383
 Start 2020:117
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210611
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

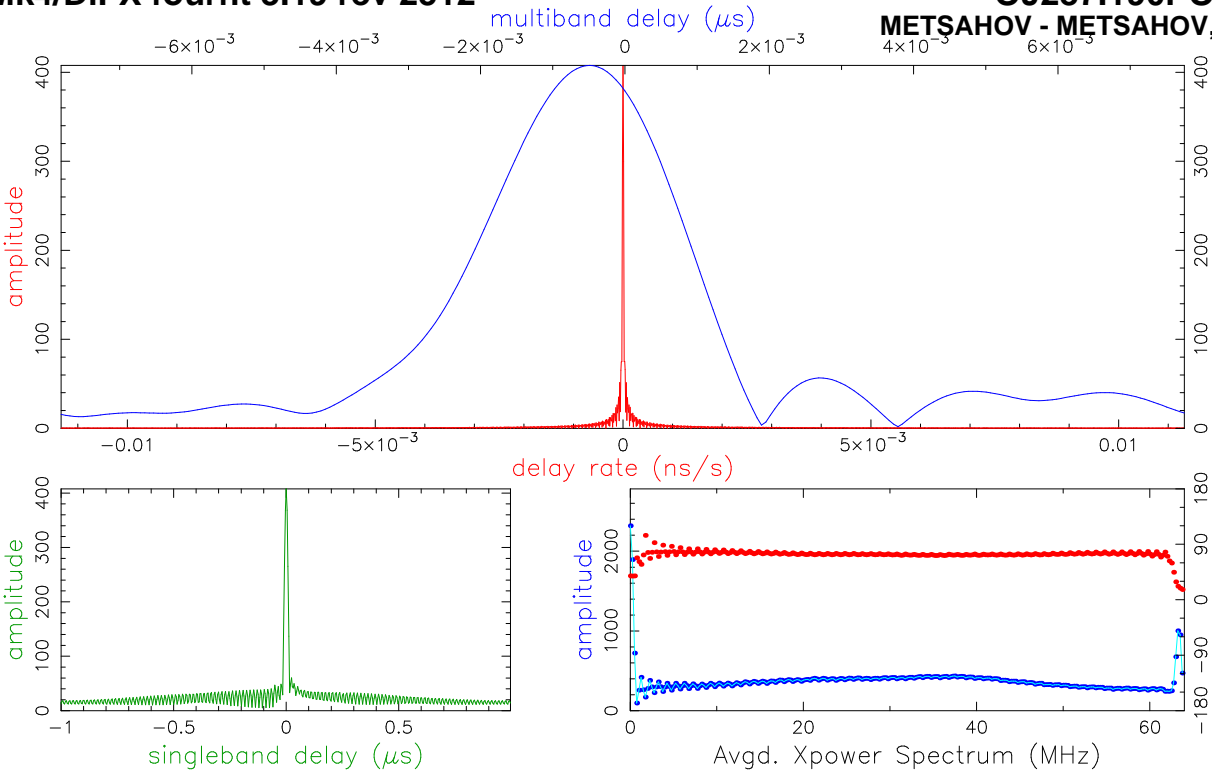
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	Ampl.	10000.0
Z	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
Z	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
									Tracks	
									Chan ids	
									Tracks	

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	1.9E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-08
Phase delay (usec)	7.72426122567E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	7.72426E-20	+/-	6.4E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.5E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 9999.990 +/- 0.017 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 9999.991 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 9999.990 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

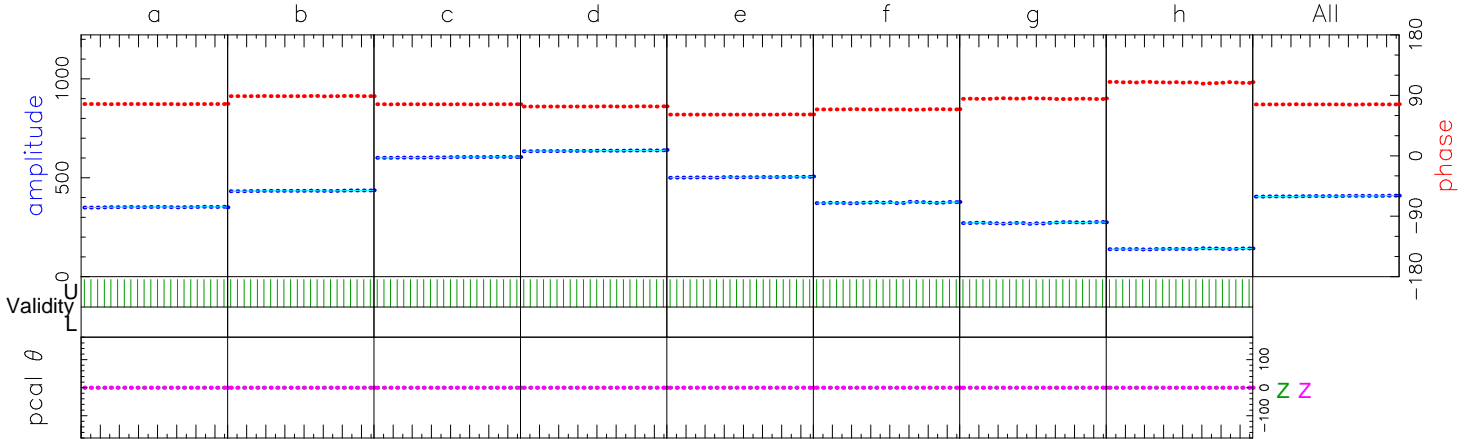


Fringe quality 7

SNR 23366.5
 Int time 439.217
 Amp 407.714
 Phase 76.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.000013
 MBD -0.000491
 Fringe rate (Hz) 0.000000
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c201c
 Yr:day 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210614
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec

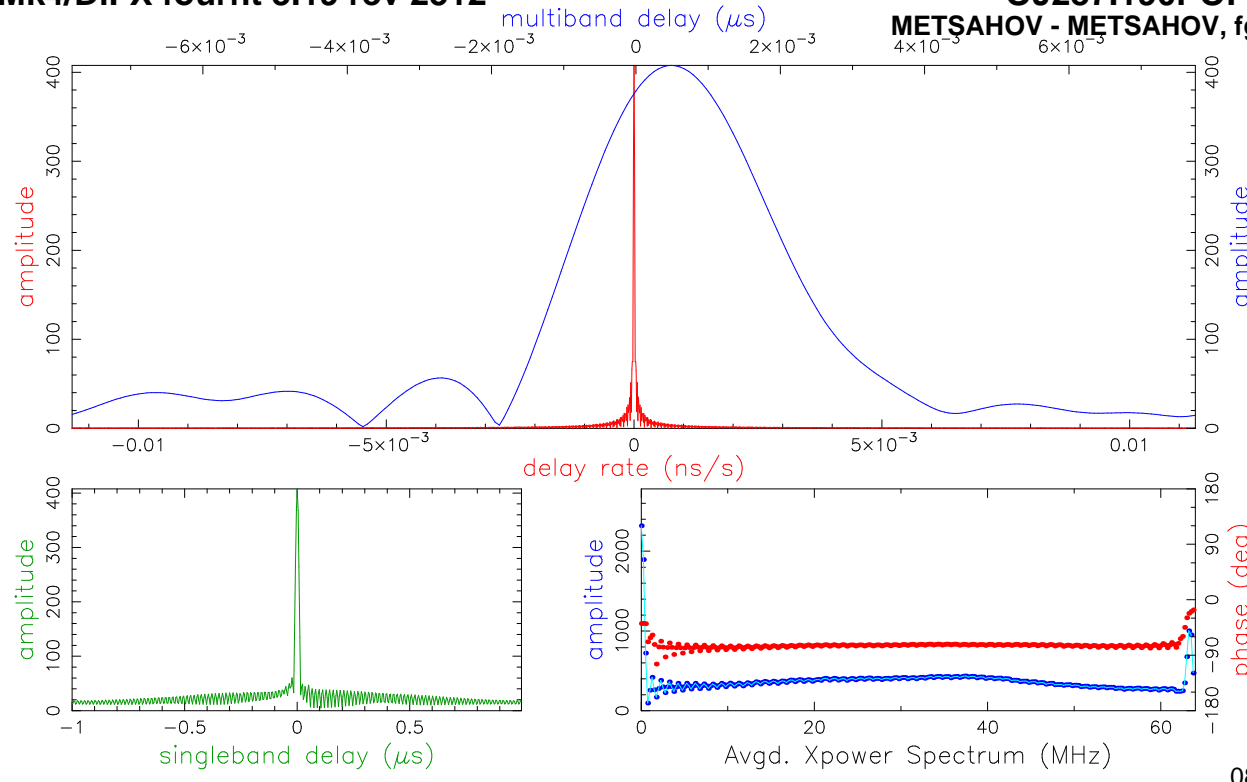


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-4.91312500000E-04	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-4.91312E-04	+/-	4.6E-08
Sband delay (usec)	1.30000000000E-05	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.30000E-05	+/-	3.7E-07
Phase delay (usec)	2.46561674359E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.46562E-06	+/-	1.6E-10
Delay rate (us/s)	1.41711523917E-12	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	1.41712E-12	+/-	6.2E-13
Total phase (deg)	76.5	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	76.5	+/-	0.0

	RMS	Theor.	Amplitude	407.714 +/- 0.017	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	0.1	0.0	Search (2048X32)	407.712	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	0.4	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	16.2	0.0	Inc. seg. avg.	407.714	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	38.2	0.0	Inc. frq. avg.	414.787	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

Z: az 250.5 el 33.6 pa 29.9 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

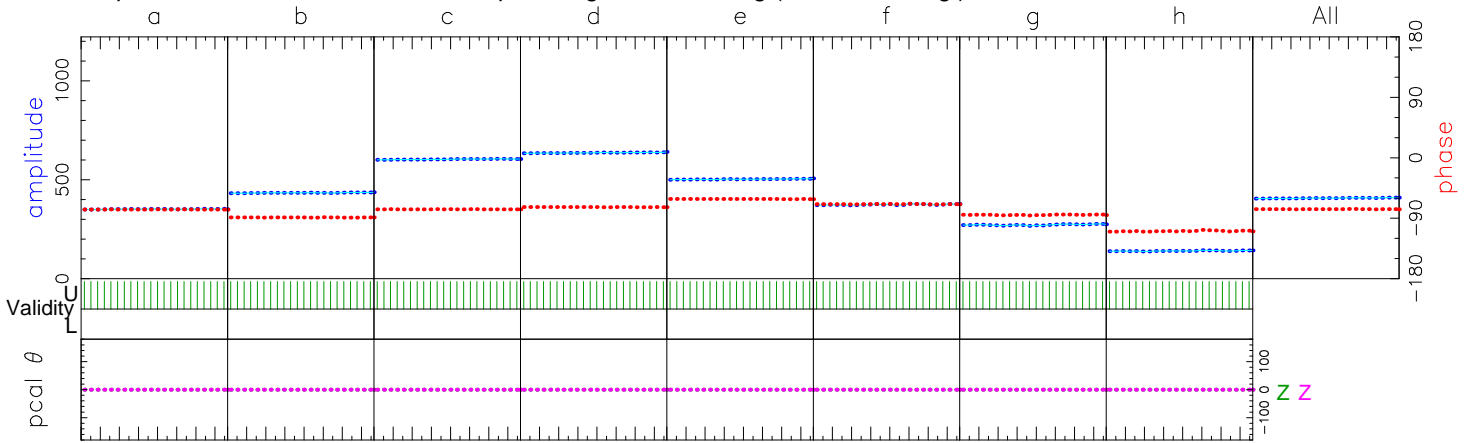


Fringe quality 7

SNR 23366.5
 Int time 439.217
 Amp 407.714
 Phase -76.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.000013
 MBD 0.000491
 Fringe rate (Hz)
 -0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210618
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-76.9	-88.8	-76.7	-73.4	-61.4	-69.0	-84.9	-109.1	Phase	-76.5
	352.0	434.5	603.9	636.8	503.1	374.7	272.6	140.8	Ampl.	414.8
	257.0	256.9	257.3	257.1	257.1	256.6	256.7	256.6	Sbd box	257.0
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.91312500000E-04		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		4.91312E-04	+/- 4.6E-08
Sband delay (usec)	-1.30000000000E-05		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-1.30000E-05	+/- 3.7E-07
Phase delay (usec)	-2.46561674354E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-2.46562E-06	+/- 1.6E-10
Delay rate (us/s)	-1.41711523917E-12		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-1.41712E-12	+/- 6.2E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-76.5	+/- 0.0

ph/seg (deg) 0.1 0.0 Search (2048X32) 407.712 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.4 0.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 16.2 0.0 Inc. seg. avg. 407.714 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 38.2 0.0 Inc. frq. avg. 414.787 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 250.5 el 33.6 pa 29.9 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator