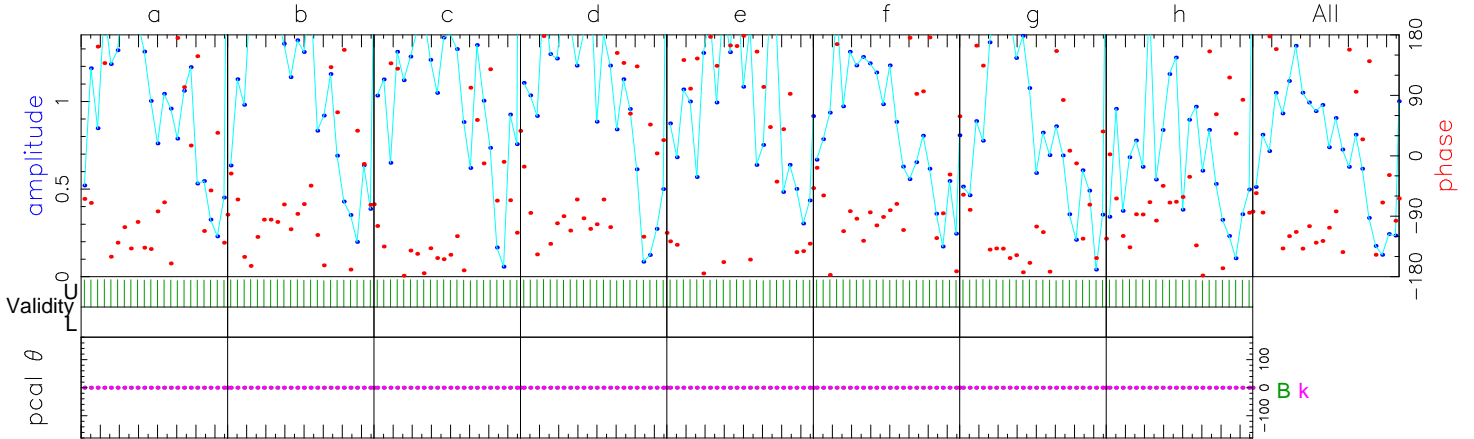


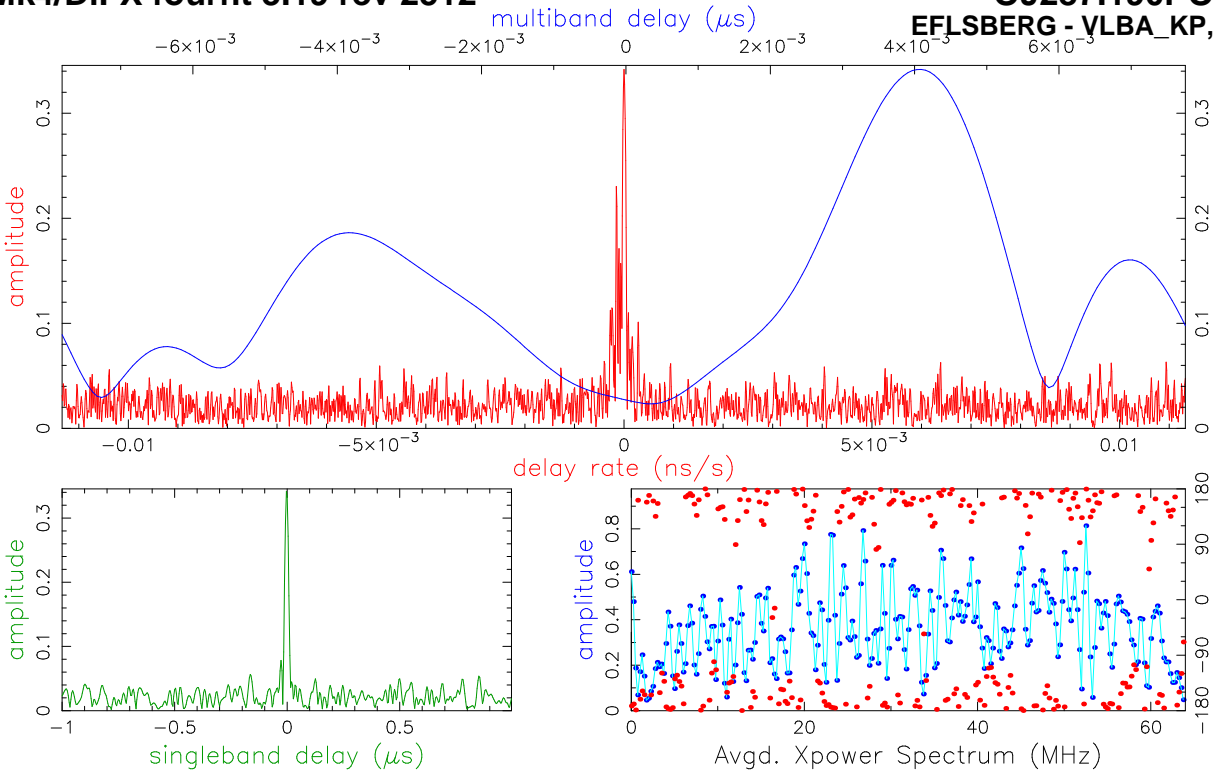
Fringe quality 6
 SNR 26.1
 Int time 431.359
 Amp 0.460
 Phase -128.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.000118
 MBD 0.007092
 Fringe rate (Hz)
 -0.000354
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210516
 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



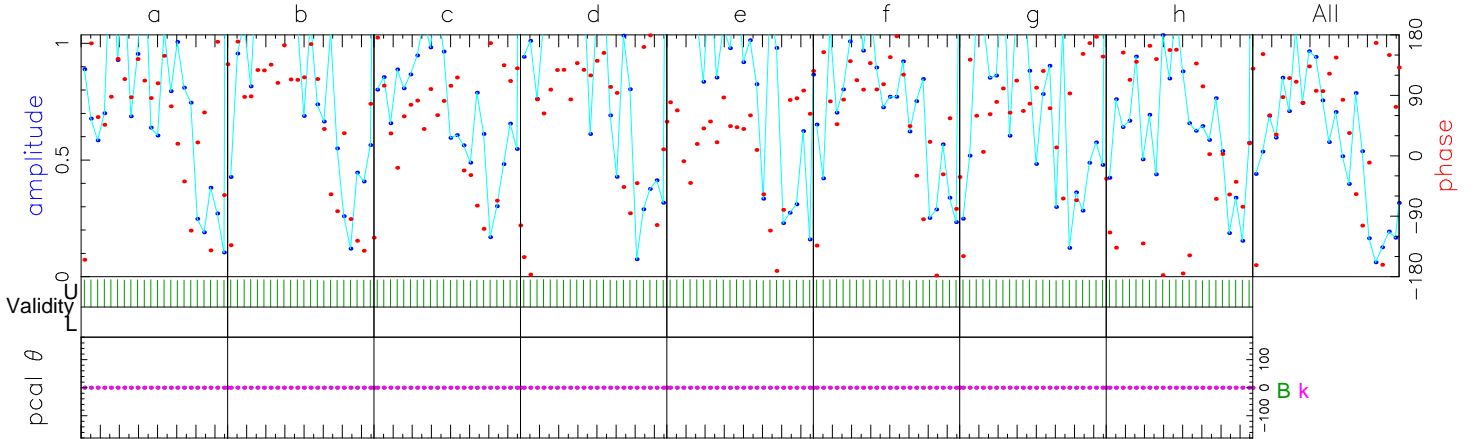
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
Group delay (usec)(sbd)	-130.2	-100.1	-153.7	-107.4	168.3	-109.3	-149.1	-83.0	Phase	-128.4
Sband delay (usec)	0.5	0.7	0.6	0.6	0.5	0.5	0.6	0.4	Ampl.	0.5
Phase delay (usec)	257.0	257.3	257.5	257.5	257.9	257.4	257.4	257.8	Sbd box	257.0
Delay rate (us/s)	U/L 859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
Total phase (deg)	B 1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
	k 1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
	B:k 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
	B:k 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
	B 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
	k 1000	1000	1000	1000	1000	1000	1000	1000		
	B W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
	k W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	7.98541769988E+03		Apriori delay (usec)		7.98541060754E+03		Resid mbdelay (usec)		7.09234E-03 +/- 4.2E-05	
Sband delay (usec)	7.98541048979E+03		Apriori clock (usec)		1.3383428E+01		Resid sbdelay (usec)		-1.17750E-04 +/- 3.3E-04	
Phase delay (usec)	7.98541060340E+03		Apriori clockrate (us/s)		-2.0540000E-07		Resid phdelay (usec)		-4.13964E-06 +/- 1.4E-07	
Delay rate (us/s)	-1.81311992582E+00		Apriori rate (us/s)		-1.81311992171E+00		Resid rate (us/s)		-4.11459E-09 +/- 5.6E-10	
Total phase (deg)	135.6		Apriori accel (us/s/s)		-3.30150540326E-05		Resid phase (deg)		-128.4 +/- 4.4	

ph/seg (deg) 63.7 10.5 Amplitude 0.460 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 91.6 18.3 Search (2048X32) 0.445 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 38.2 6.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 23.7 10.8 Inc. seg. avg. 0.715 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.539 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 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 10993.407 1013.369 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Bk..190POF Output file: /Exps/c201c/v1/1234/No0032/Bk.W.2.190POF



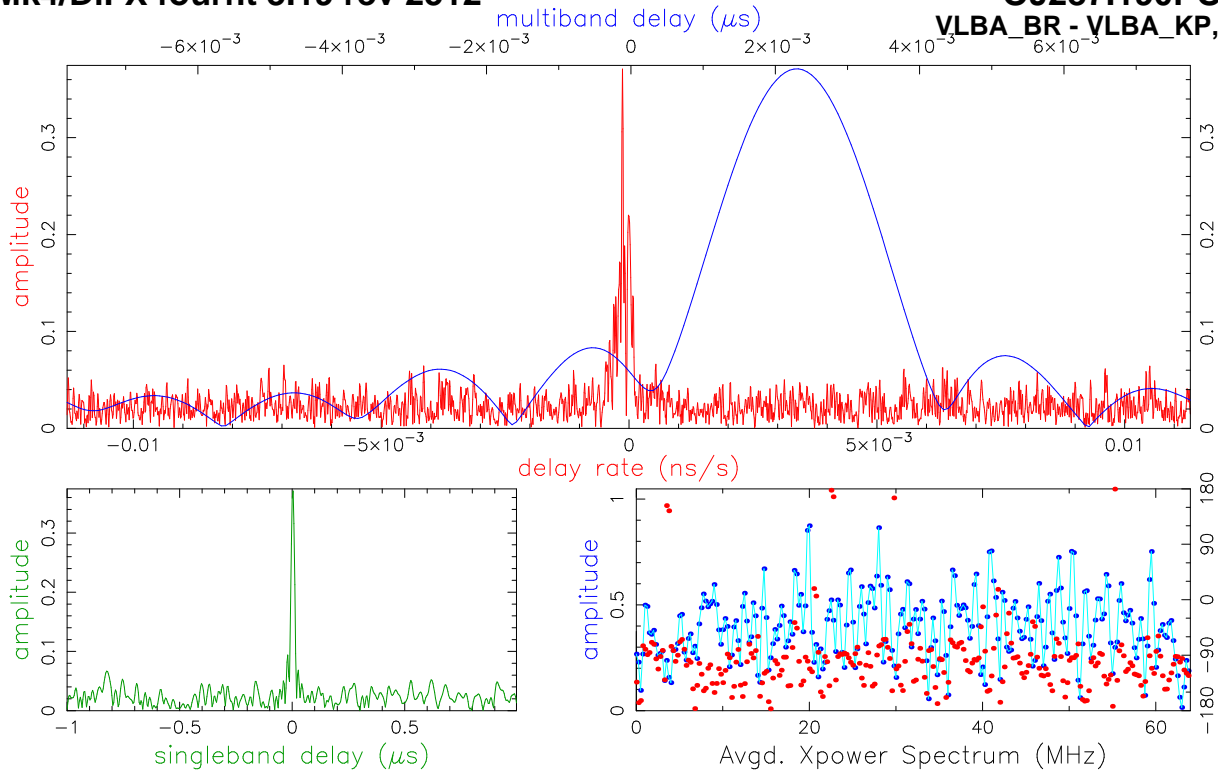
Fringe quality 8
SNR 19.6
Int time 431.360
Amp 0.346
Phase 103.3
PFD 0.0e+00
Delays (us)
SBD -0.002505
MBD 0.004092
Fringe rate (Hz)
-0.000211
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210519
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	859/0	859/0
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
k	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
B:k	0:0	0:0	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	1000	1000
k	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		7.98541469947E+03			7.98541060754E+03				4.09194E-03	+/- 5.5E-05
Sband delay (usec)		7.98540810229E+03			1.3383428E+01				-2.50525E-03	+/- 4.4E-04
Phase delay (usec)		7.98541061087E+03			-2.0540000E-07				3.32984E-06	+/- 1.9E-07
Delay rate (us/s)		-1.81311992416E+00			-1.81311992171E+00				-2.45373E-09	+/- 7.4E-10
Total phase (deg)			7.2		-3.30150540326E-05				103.3	+/- 5.8
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 69.2 14.0
amp/seg (%) 104.5 24.4
ph/frq (deg) 43.3 8.3
amp/frq (%) 32.2 14.4
RMS Theor. Amplitude 0.346 +/- 0.018
Search (2048X32) 0.338
Interp. 0.000
Inc. seg. avg. 0.554
Inc. frq. avg. 0.418
Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
SampCntNorm: enabled
Sample rate(MISamp/s): 128
Data rate(Mb/s): 2048
nlags: 256 t_cohere infinite
sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00
B: az 239.9 el 46.7 pa 35.9 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 10993.407 1013.369 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Bk..190POF Output file: /Exps/c201c/v1/1234/No0032/Bk.W.22.190POF

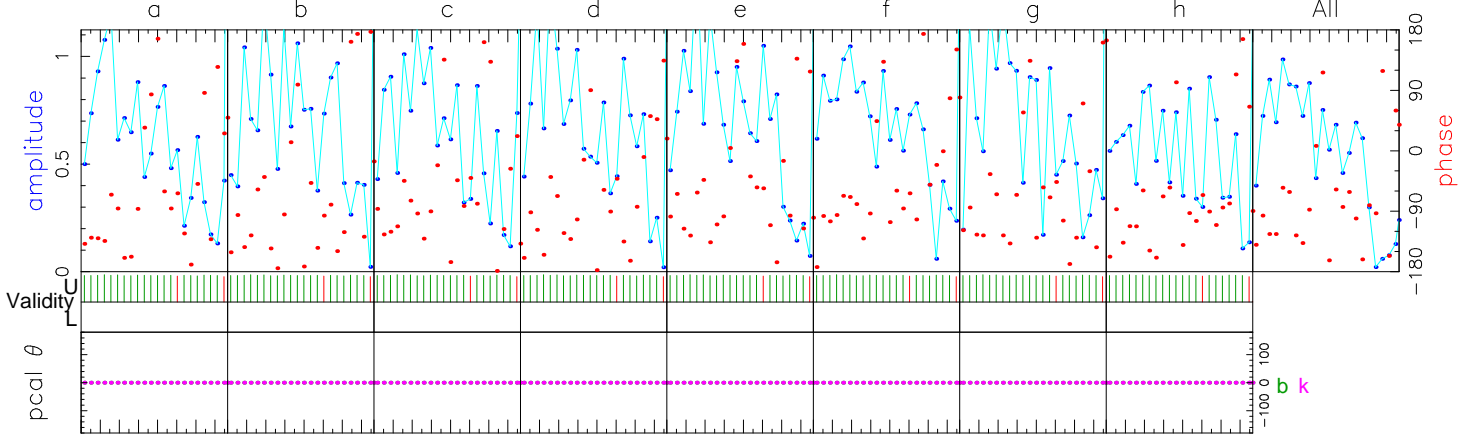


Fringe quality 9

SNR 21.1
Int time 424.114
Amp 0.375
Phase -102.4
PFD 0.0e+00
Delays (us)
SBD 0.002643
MBD 0.002263
Fringe rate (Hz)
-0.011367
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
2020:202:210520
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	
	-109.5	-116.1	-95.9	-95.5	-97.8	-94.1	-104.2	-109.2		Phase	-102.4
	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3		Ampl.	0.4
	257.0	258.2	258.2	257.3	258.2	257.2	257.6	257.4		Sbd box	257.7
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	
k	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
b:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	
										Chan ids	
										Tracks	
Group delay (usec)(sbd)	-1.04339956255E+03		Apriori delay (usec)		-1.04340182567E+03		Resid mbdelay (usec)		2.26312E-03	+/-	5.1E-05
Sband delay (usec)	-1.04339918267E+03		Apriori clock (usec)		-1.0676705E+00		Resid sbdelay (usec)		2.64300E-03	+/-	4.1E-04
Phase delay (usec)	-1.04340182897E+03		Apriori clockrate (us/s)		-4.7400004E-08		Resid phdelay (usec)		-3.30213E-06	+/-	1.8E-07
Delay rate (us/s)	-2.39196322296E-01		Apriori rate (us/s)		-2.39196190339E-01		Resid rate (us/s)		-1.31957E-07	+/-	6.9E-10
Total phase (deg)			Apriori accel (us/s/s)		1.38629112496E-05		Resid phase (deg)		-102.4	+/-	5.4

ph/seg (deg) 67.4 13.0
amp/seg (%) 91.5 22.7
ph/frq (deg) 8.8 7.7
amp/frq (%) 8.3 13.4

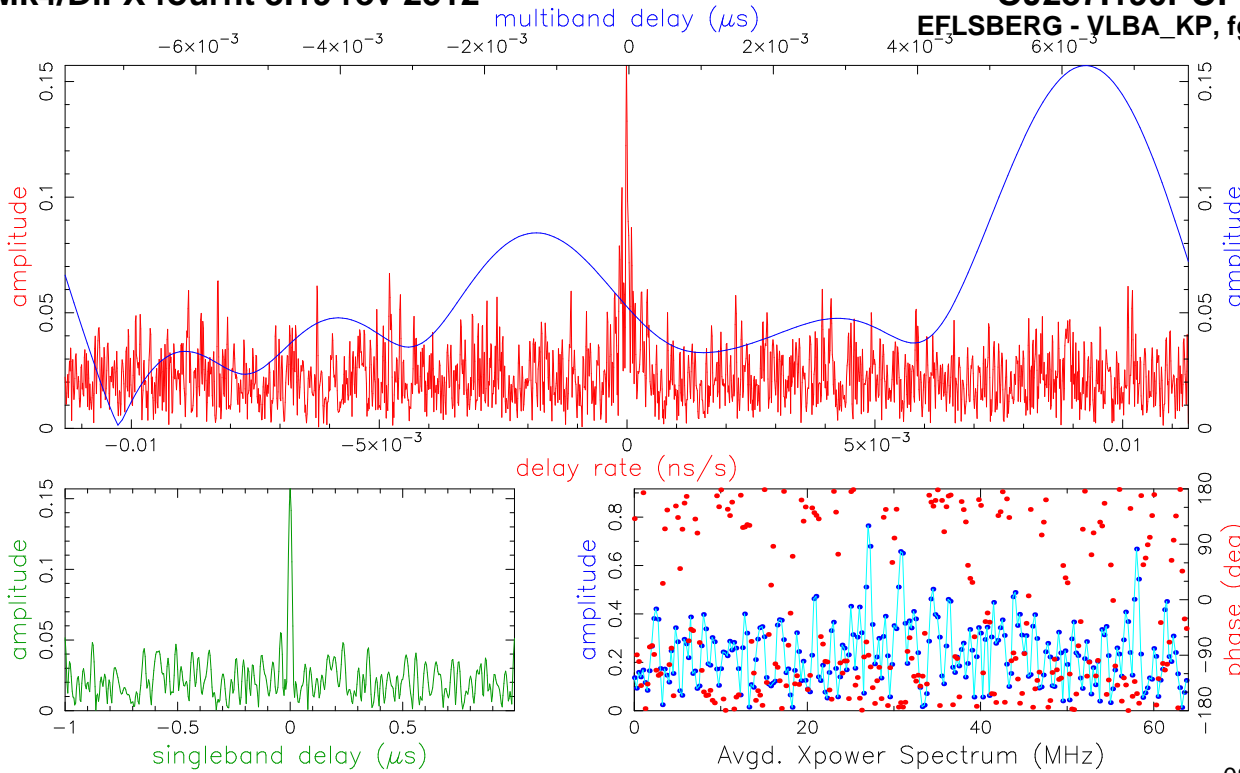
RMS Theor. Amplitude 0.375 +/- 0.018
Search (2048X32) 0.368
Interp. 0.000
Inc. seg. avg. 0.549
Inc. frq. avg. 0.371

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

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

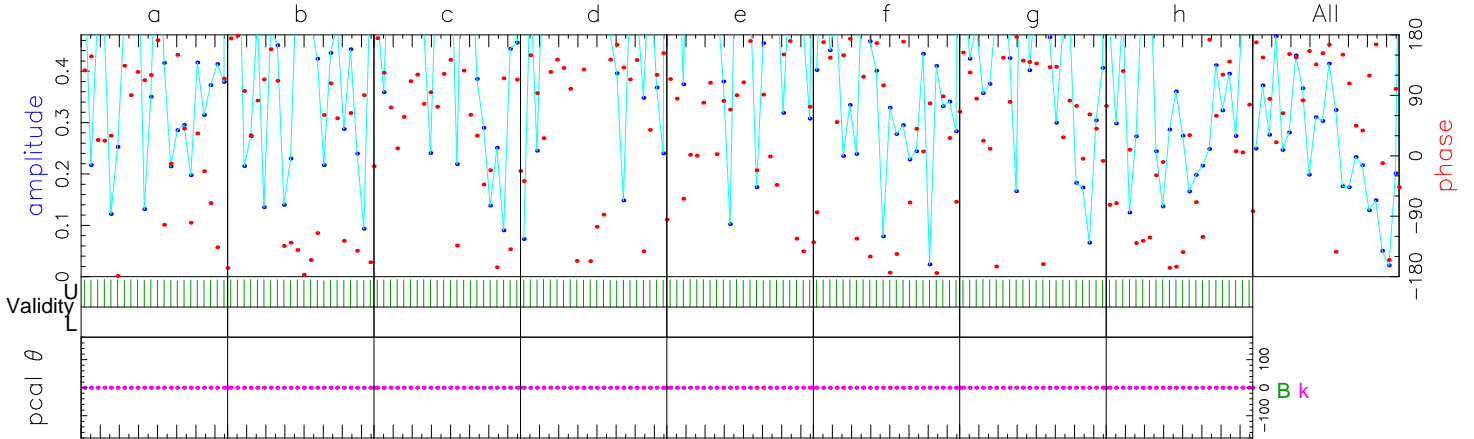
b: az 78.2 el 16.5 pa -44.1 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 1478.279 2181.433 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bk..190POF Output file: /Exps/c201c/v1/1234/No0032/bk.W.24.190POF



Fringe quality 9
SNR 8.9
Int time 431.360
Amp 0.157
Phase 124.0
PFD 1.9e-10
Delays (us)
SBD -0.000329
MBD 0.006316
Fringe rate (Hz)
-0.001290
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
2020:202:210523
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

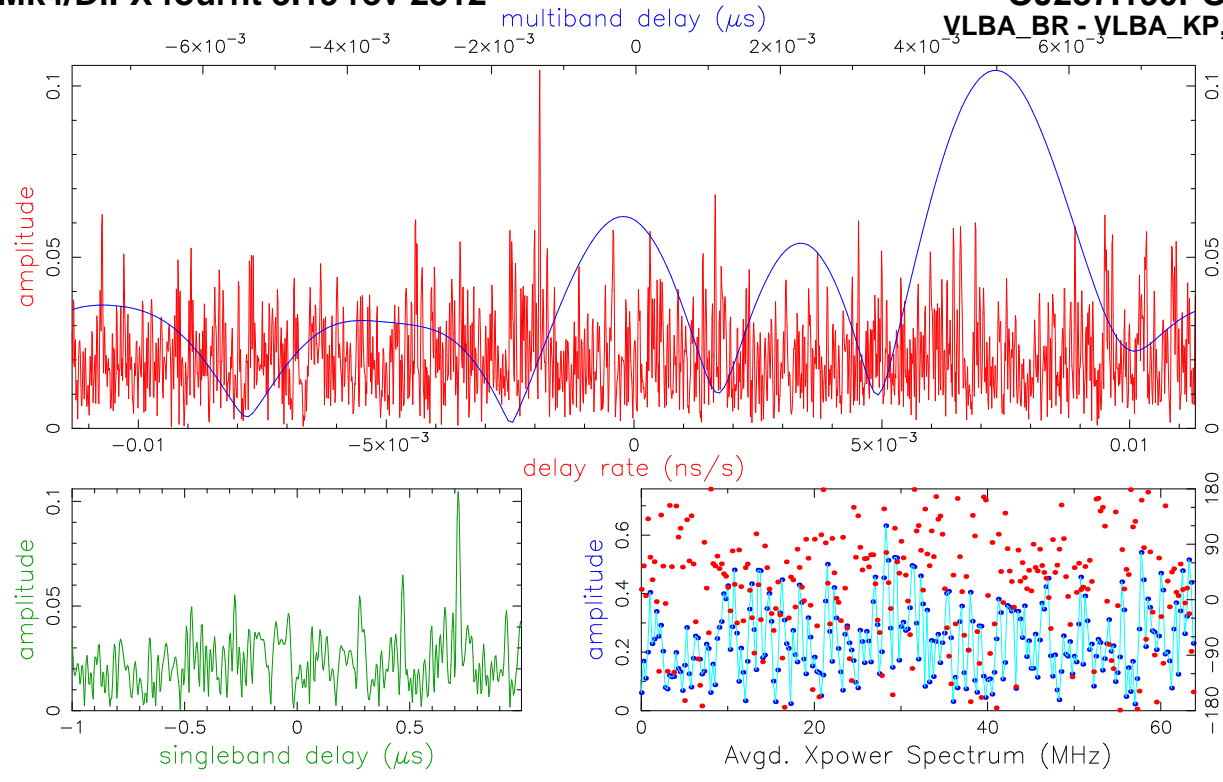
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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		
k	1000	1000	1000	1000	1000	1000	1000	1000		
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:k	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		
k	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	7.98541692382E+03		Apriori delay (usec)		7.98541060754E+03		Resid mbdelay (usec)		6.31629E-03	+/- 1.2E-04
Sband delay (usec)	7.98541027829E+03		Apriori clock (usec)		1.3383428E+01		Resid sbdelay (usec)		-3.29250E-04	+/- 9.7E-04
Phase delay (usec)	7.98541061153E+03		Apriori clockrate (us/s)		-2.0540000E-07		Resid phdelay (usec)		3.99748E-06	+/- 4.1E-07
Delay rate (us/s)	-1.81311993669E+00		Apriori rate (us/s)		-1.81311992171E+00		Resid rate (us/s)		-1.49789E-08	+/- 1.6E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.30150540326E-05		Resid phase (deg)		124.0	+/- 12.9

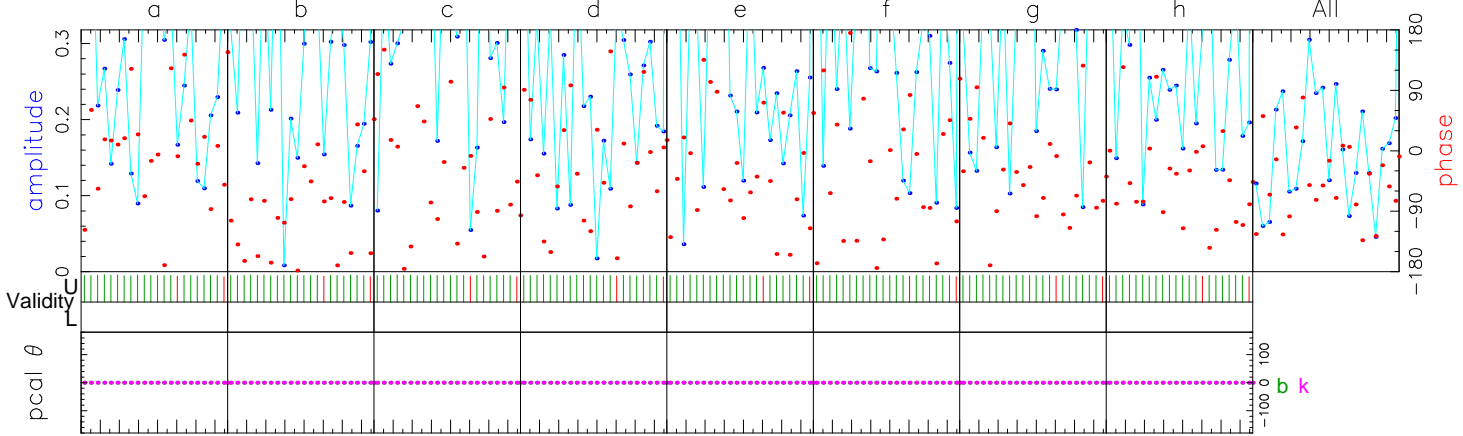
	RMS	Theor.	Amplitude	0.157 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	58.9	30.8	Search (2048X32)	0.153	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	96.0	53.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	48.7	18.2	Inc. seg. avg.	0.223	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	52.8	31.7	Inc. frq. avg.	0.175	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

B: az 239.9 el 46.7 pa 35.9 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 10993.407 1013.369 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Bk..190POF Output file: /Exps/c201c/v1/1234/No0032/Bk.W.36.190POF



Fringe quality 0
SNR 5.9
Int time 424.113
Amp 0.106
Phase -55.4
PFD 6.0e-01
Delays (us)
SBD 0.715419
MBD 0.004997
Fringe rate (Hz)
-0.164192
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
	-1.7	-92.7	-68.6	-27.7	-57.1	-90.1	-46.1	-55.5	Phase	-55.4
	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	Ampl.	0.1
	73.2	238.3	184.0	241.3	420.2	62.5	440.0	132.4	Sbd box	440.1
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	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

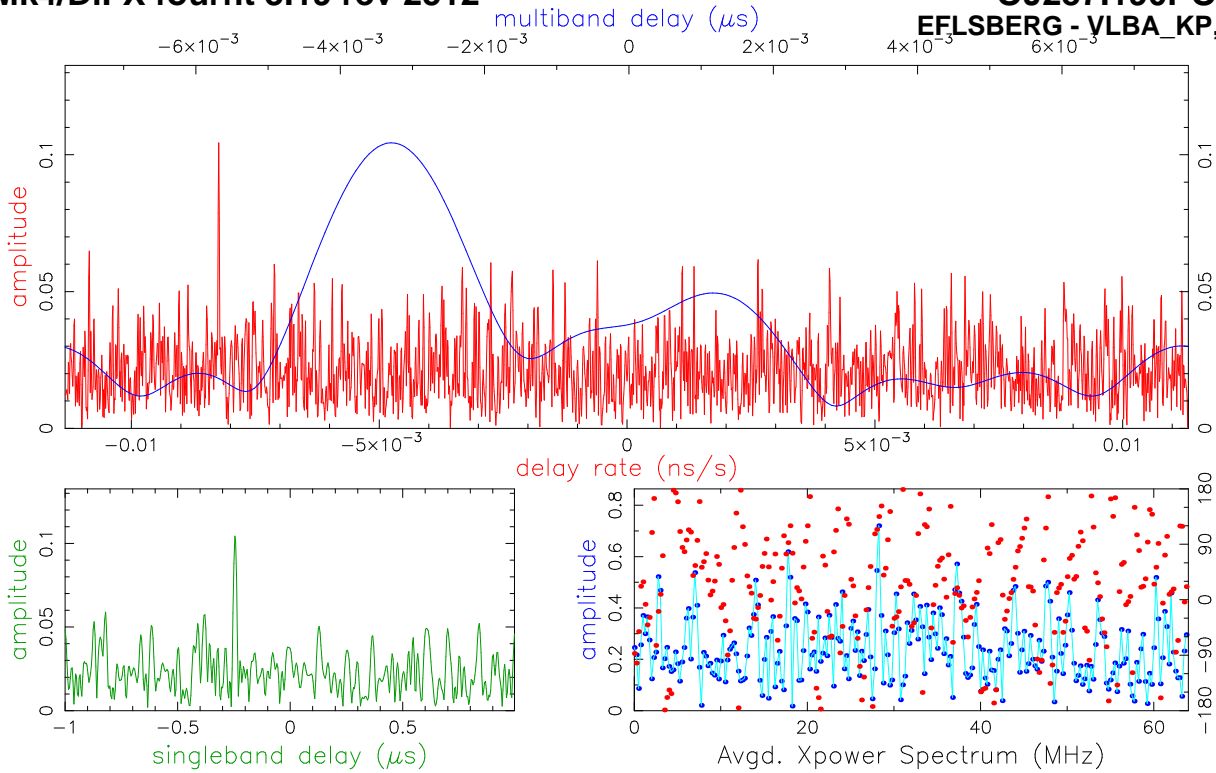
Group delay (usec)(sbd) -1.04269370359E+03 Apriori delay (usec) -1.04340182567E+03 Resid mbdelay (usec) 4.99708E-03 +/- 1.8E-04
Sband delay (usec) -1.04268640717E+03 Apriori clock (usec) -1.0676705E+00 Resid sbdelay (usec) 7.15419E-01 +/- 1.5E-03
Phase delay (usec) -1.04340182746E+03 Apriori clockrate (us/s) -4.7400004E-08 Resid phdelay (usec) -1.78611E-06 +/- 6.3E-07
Delay rate (us/s) -2.39198096448E-01 Apriori rate (us/s) -2.39196190339E-01 Resid rate (us/s) -1.90611E-06 +/- 2.5E-09
Total phase (deg) -150.1 Apriori accel (us/s/s) 1.38629112496E-05 Resid phase (deg) -55.4 +/- 19.4

RMS Theor. Amplitude 0.106 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 58.1 46.6 Search (2048X32) 0.103 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 85.7 81.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg) 33.0 27.5 Inc. seg. avg. 0.122 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
amp/frq (%) 52.1 47.9 Inc. frq. avg. 0.107 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 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 1478.279 2181.433 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bk..190POF Output file: /Exps/c201c/v1/1234/No0032/bk.W.43.190POF

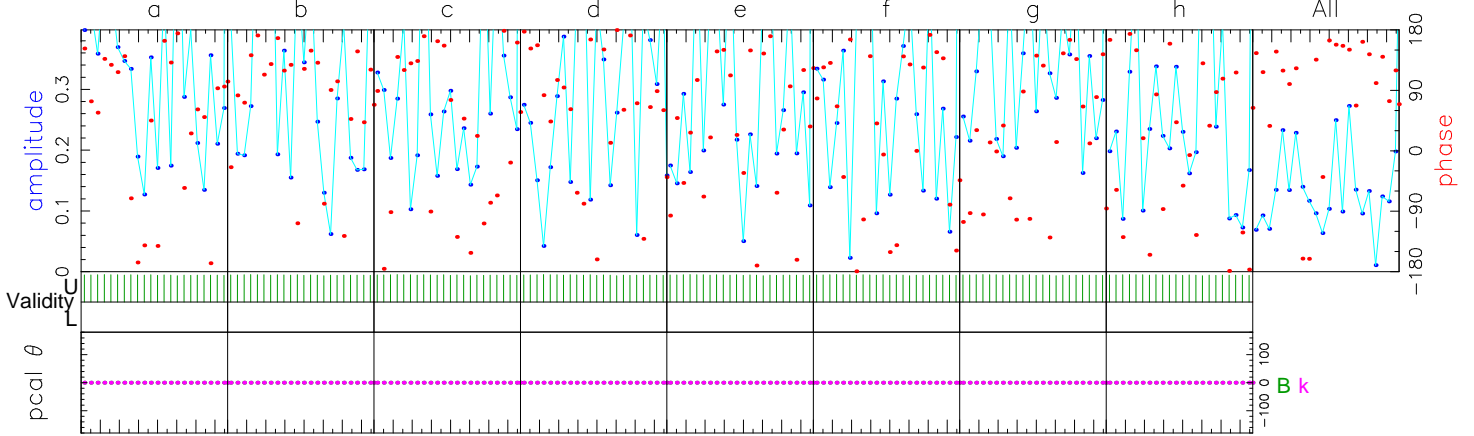
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, Bk
EFLSBERG - VLBA_KP, fgroup W, pol RL



Fringe quality 0
SNR 6.0
Int time 431.359
Amp 0.133
Phase 135.3
PFD 4.1e-01
Delays (us)
SBD -0.244754
MBD -0.003262
Fringe rate (Hz)
-0.711002
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
2020:202:210527
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



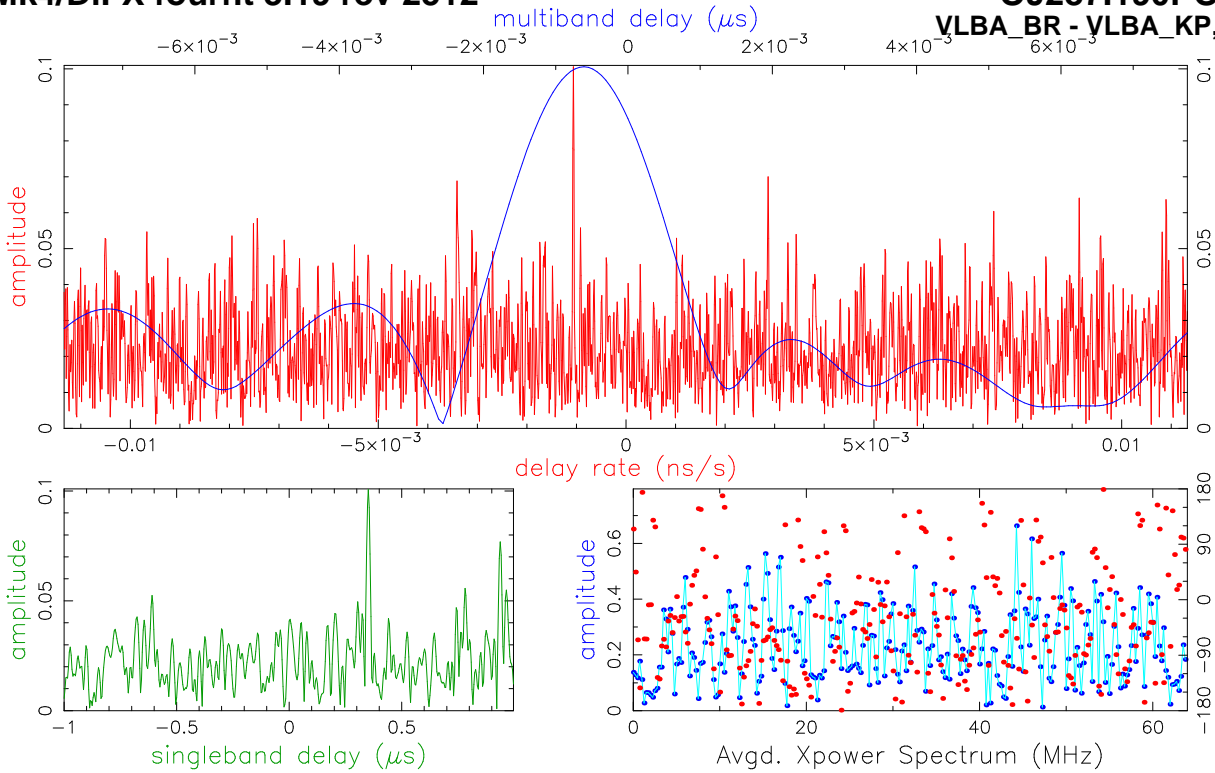
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	126.4	134.2	-177.9	131.5	114.3	150.9	137.4	122.2	Phase	135.3
	0.2	0.2	0.1	0.1	0.2	0.1	0.0	0.1	Ampl.	0.1
	31.7	194.2	476.0	269.0	206.3	154.1	1.5	389.8	Sbd box	194.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	7.98517297086E+03		Apriori delay (usec)		7.98541060754E+03		Resid mbdelay (usec)		-3.26167E-03	+/- 1.8E-04
Sband delay (usec)	7.98516585329E+03		Apriori clock (usec)		1.3383428E+01		Resid sbdelay (usec)		-2.44754E-01	+/- 1.4E-03
Phase delay (usec)	7.98541061190E+03		Apriori clockrate (us/s)		-2.0540000E-07		Resid phdelay (usec)		4.36208E-06	+/- 6.2E-07
Delay rate (us/s)	-1.81312817574E+00		Apriori rate (us/s)		-1.81311992171E+00		Resid rate (us/s)		-8.25403E-06	+/- 2.4E-09
Total phase (deg)	39.2		Apriori accel (us/s/s)		-3.30150540326E-05		Resid phase (deg)		135.3	+/- 19.1

ph/seg (deg) 53.8 45.8 Amplitude 0.133 +/- 0.022 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 67.2 80.0 Search (2048X32) 0.097 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 22.9 27.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 47.6 47.2 Inc. seg. avg. 0.126 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 239.9 el 46.7 pa 35.9 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 10993.407 1013.369 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/Bk..190POF Output file: /Exps/c201c/v1/1234/No0032/Bk.W.53.190POF

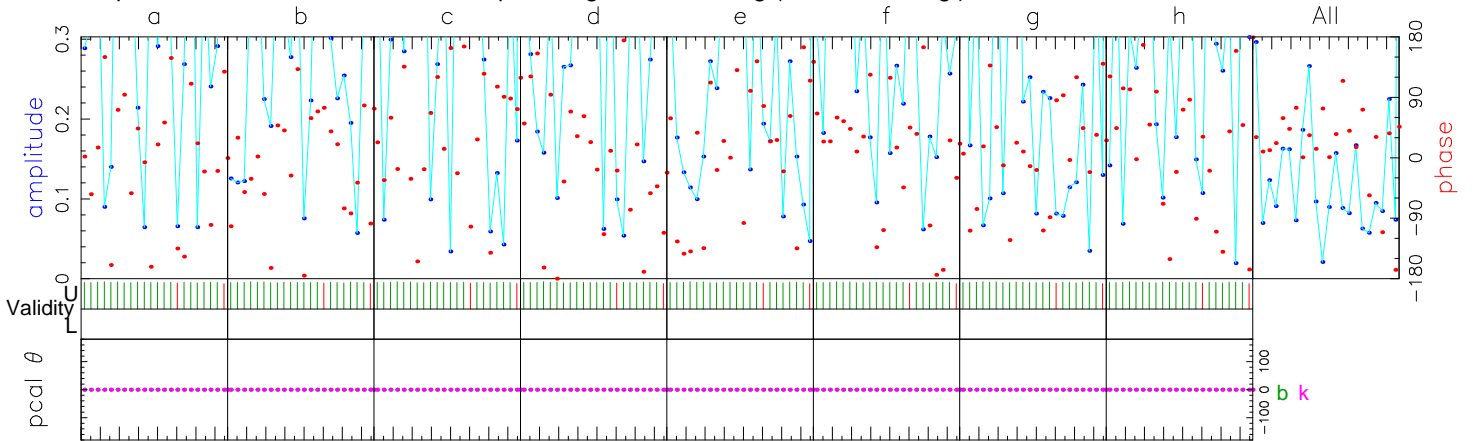
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, bk
VLBA_BR - VLBA_KP, fgroup W, pol RL



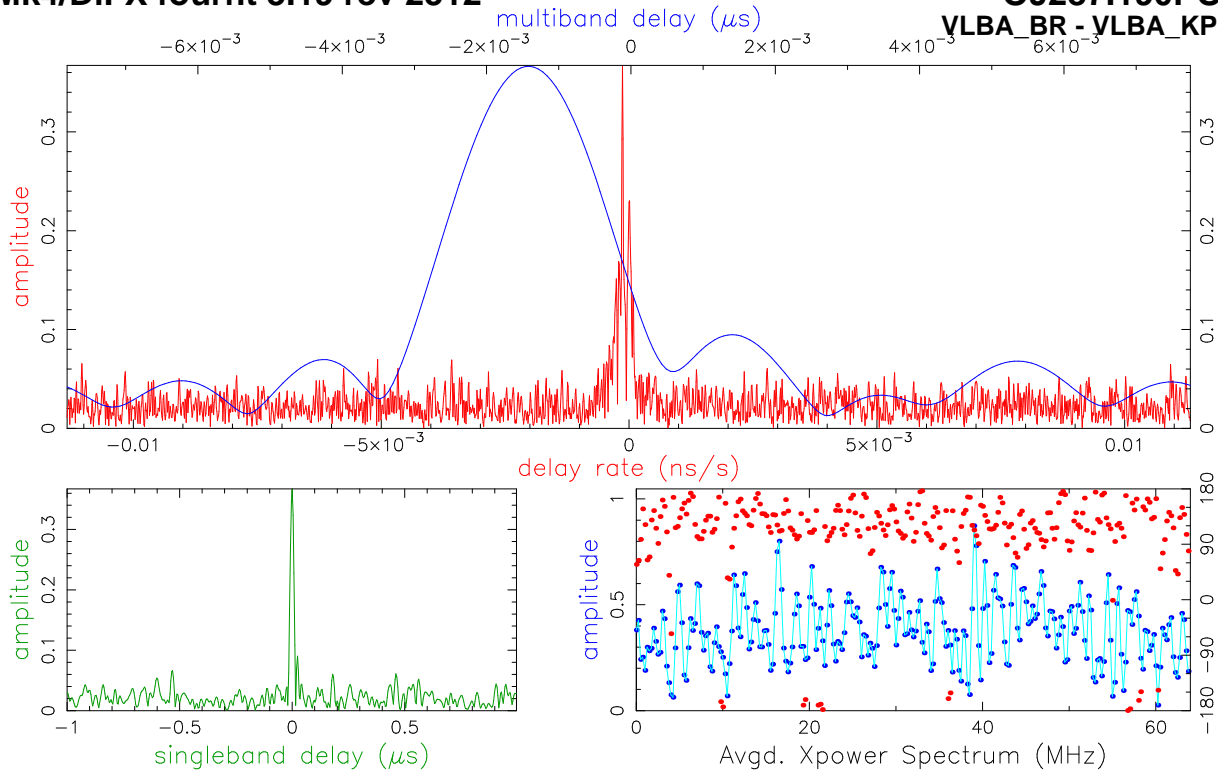
Fringe quality 0
SNR 5.7
Int time 424.113
Amp 0.101
Phase 30.6
PFD 9.7e-01
Delays (us)
SBD 0.351399
MBD -0.000615
Fringe rate (Hz)
-0.091511
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210528
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	Ampl.	0.1
k	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	347.0
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
k	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
									Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.04304306535E+03								Resid mbdelay (usec)	-6.14677E-04 +/- 1.9E-04
Sband delay (usec)	-1.04305042667E+03								Resid sbdelay (usec)	3.51399E-01 +/- 1.5E-03
Phase delay (usec)	-1.04340182468E+03								Resid phdelay (usec)	9.87910E-07 +/- 6.5E-07
Delay rate (us/s)	-2.39197252687E-01								Resid rate (us/s)	-1.06235E-06 +/- 2.6E-09
Total phase (deg)			-64.1						Resid phase (deg)	30.6 +/- 20.2
	RMS	Theor.	Amplitude	0.101 +/- 0.018					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	56.1	48.5	Search (2048X32)	0.099					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	79.5	84.6	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	23.2	28.6	Inc. seg. avg.	0.093					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	28.6	49.9	Inc. frq. avg.	0.095					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
									nlags: 256	t_cohere infinite

b: az 78.2 el 16.5 pa -44.1 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 1478.279 2181.433 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bk..190POF Output file: /Exps/c201c/v1/1234/No0032/bk.W.58.190POF

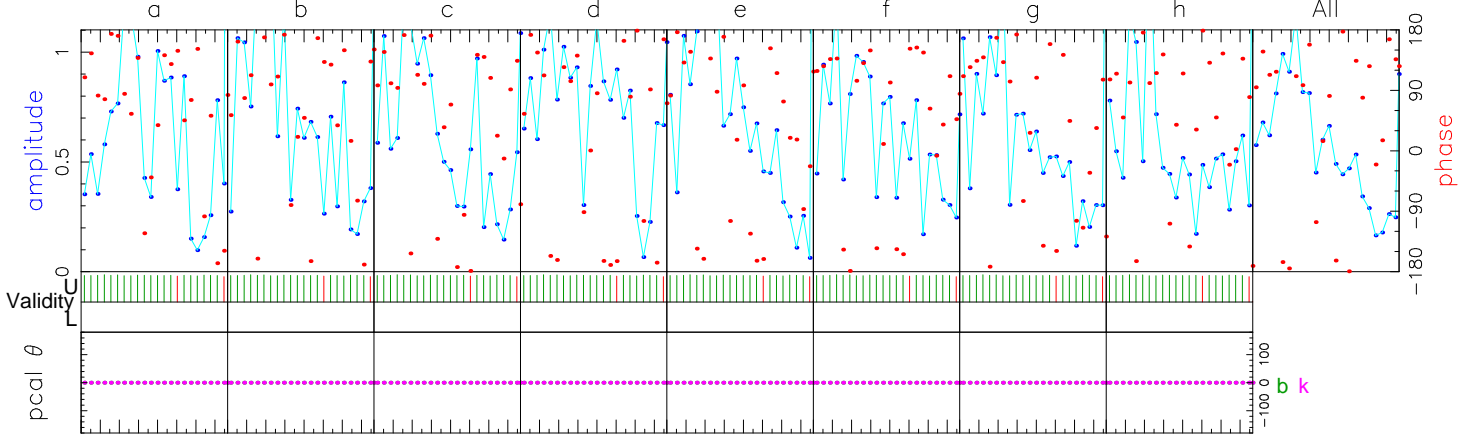


Fringe quality 9

SNR 20.7
Int time 424.112
Amp 0.367
Phase 136.3
PFD 0.0e+00
Delays (us)
SBD -0.000644
MBD -0.001437
Fringe rate (Hz)
-0.011346
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
2020:202:210516
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		
k	1000	1000	1000	1000	1000	1000	1000	1000		
b:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:k	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		
k	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.04340326243E+03	Apriori delay (usec)	-1.04340182567E+03	Resid mbdelay (usec)	-1.43676E-03	+/-	5.2E-05
Sband delay (usec)	-1.04340246967E+03	Apriori clock (usec)	-1.0676705E+00	Resid sbdelay (usec)	-6.44000E-04	+/-	4.2E-04
Phase delay (usec)	-1.04340182127E+03	Apriori clockrate (us/s)	-4.7400004E-08	Resid phdelay (usec)	4.39632E-06	+/-	1.8E-07
Delay rate (us/s)	-2.39196322054E-01	Apriori rate (us/s)	-2.39196190339E-01	Resid rate (us/s)	-1.31714E-07	+/-	7.0E-10
Total phase (deg)		Apriori accel (us/s/s)	1.38629112496E-05	Resid phase (deg)	136.3	+/-	5.5

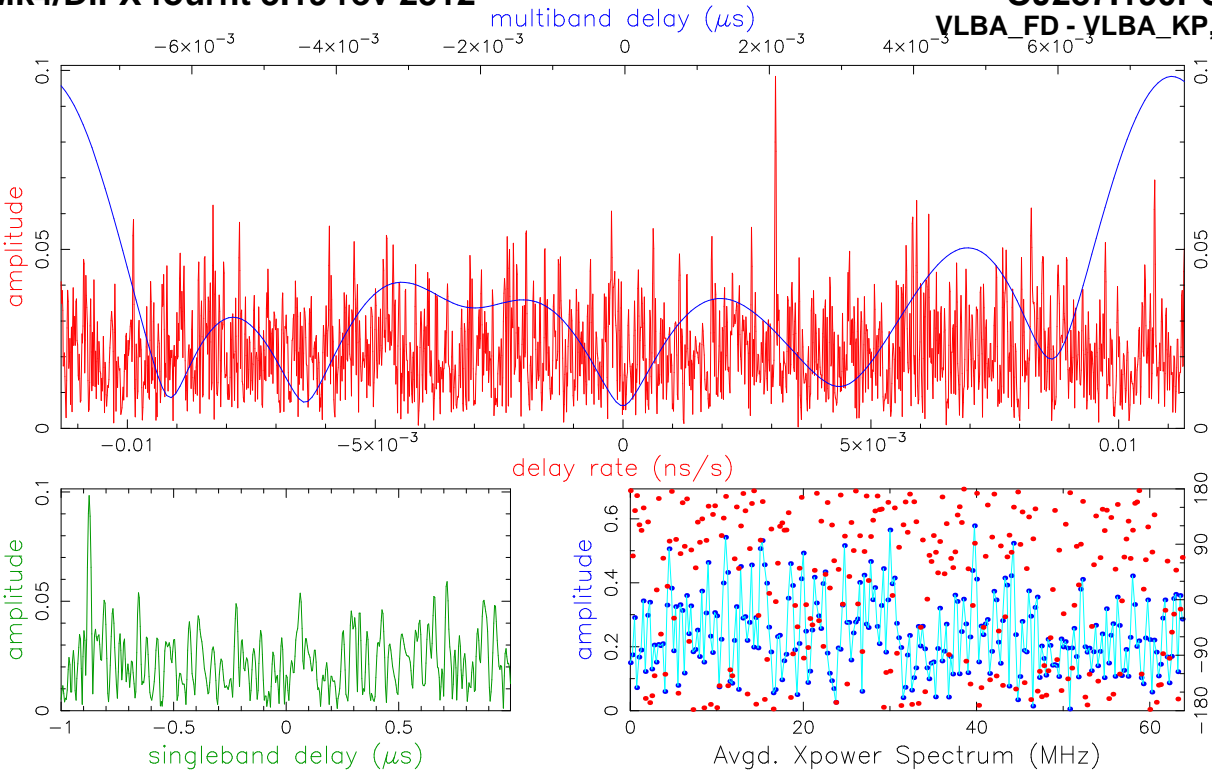
ph/seg (deg)	65.3	RMS	13.3	Theor.	0.367 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	91.2	Search (2048X32)	0.364	Amplitude		Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	14.5	Interp.	0.000	Search		Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	11.2	Inc. seg. avg.	0.557	Inc. seg. avg.		Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	0.371	Inc. frq. avg.		Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

b: az 78.2 el 16.5 pa -44.1 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 1478.279 2181.433 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/bk..190POF Output file: /Exps/c201c/v1/1234/No0032/bk.W.6.190POF

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, fk
VLBA_FD - VLBA_KP, fgroup W, pol LR

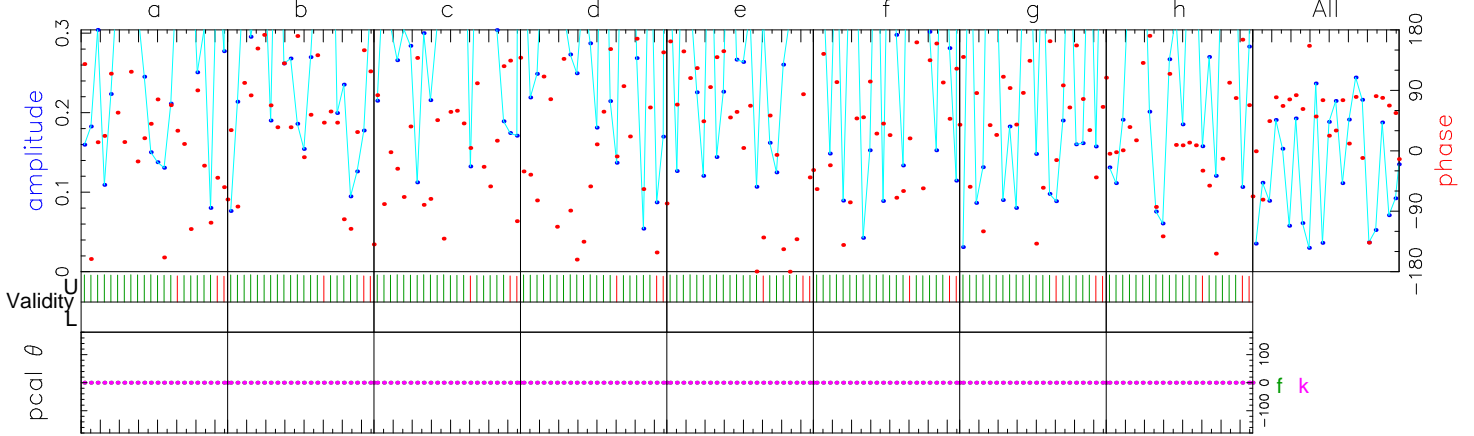


Fringe quality 0

SNR 5.6
Int time 427.009
Amp 0.101
Phase 51.5
PFD 1.0e+00
Delays (us)
SBD -0.875160
MBD 0.007571
Fringe rate (Hz)
0.265922
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
2020:202:210543
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

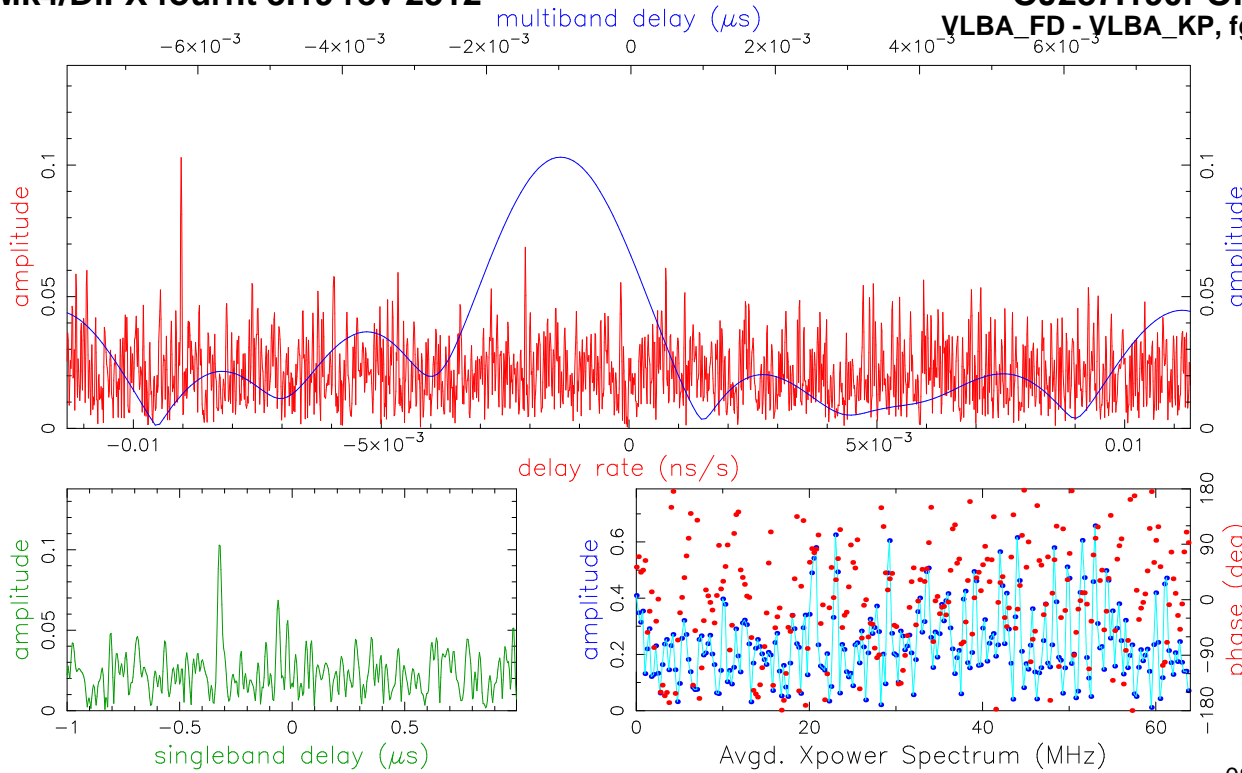
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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		
k	1000	1000	1000	1000	1000	1000	1000	1000		
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:k	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		
k	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		2.12553375175E+03			2.12640118118E+03				7.57057E-03	+/- 2.0E-04
Sband delay (usec)		2.12552602143E+03			4.2509508E+00				-8.75160E-01	+/- 1.6E-03
Phase delay (usec)		2.12640118284E+03			1.0360000E-07				1.66140E-06	+/- 6.6E-07
Delay rate (us/s)		-2.84780904876E-02			-2.84811775782E-02				3.08709E-06	+/- 2.6E-09
Total phase (deg)			320.3		-1.20456594058E-05				51.5	+/- 20.6
	RMS	Theor.	Amplitude	0.101 +/- 0.018	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	57.2	49.4	Search (2048X32)	0.097	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	79.8	86.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	36.9	29.2	Inc. seg. avg.	0.096	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011		
amp/frq (%)	28.2	50.9	Inc. frq. avg.	0.106	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

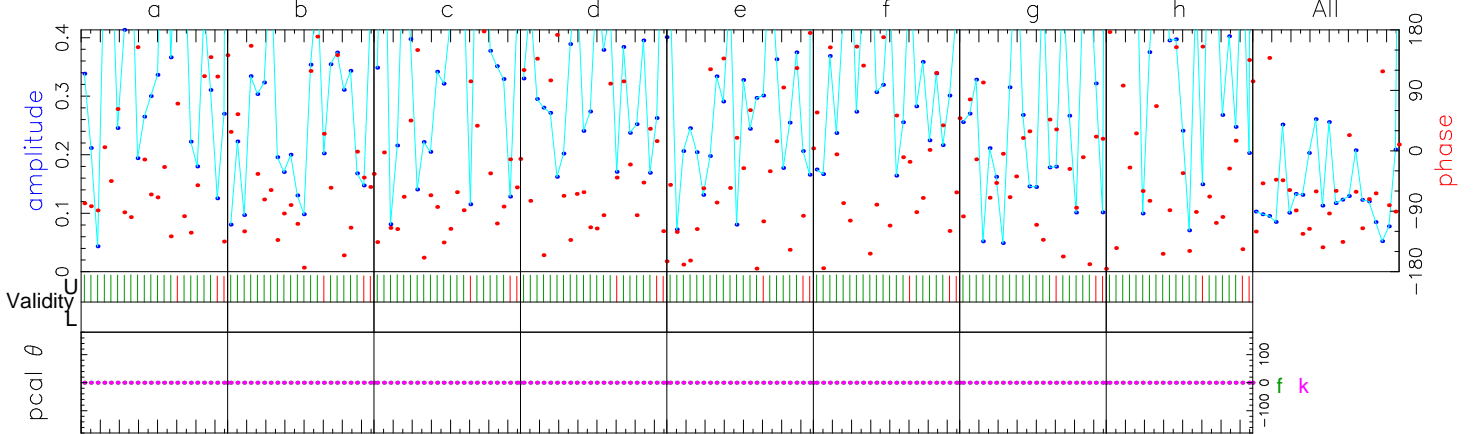
f: az 80.8 el 25.4 pa -64.7 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 153.842 -510.012 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fk..190POF Output file: /Exps/c201c/v1/1234/No0032/fk.W.115.190POF



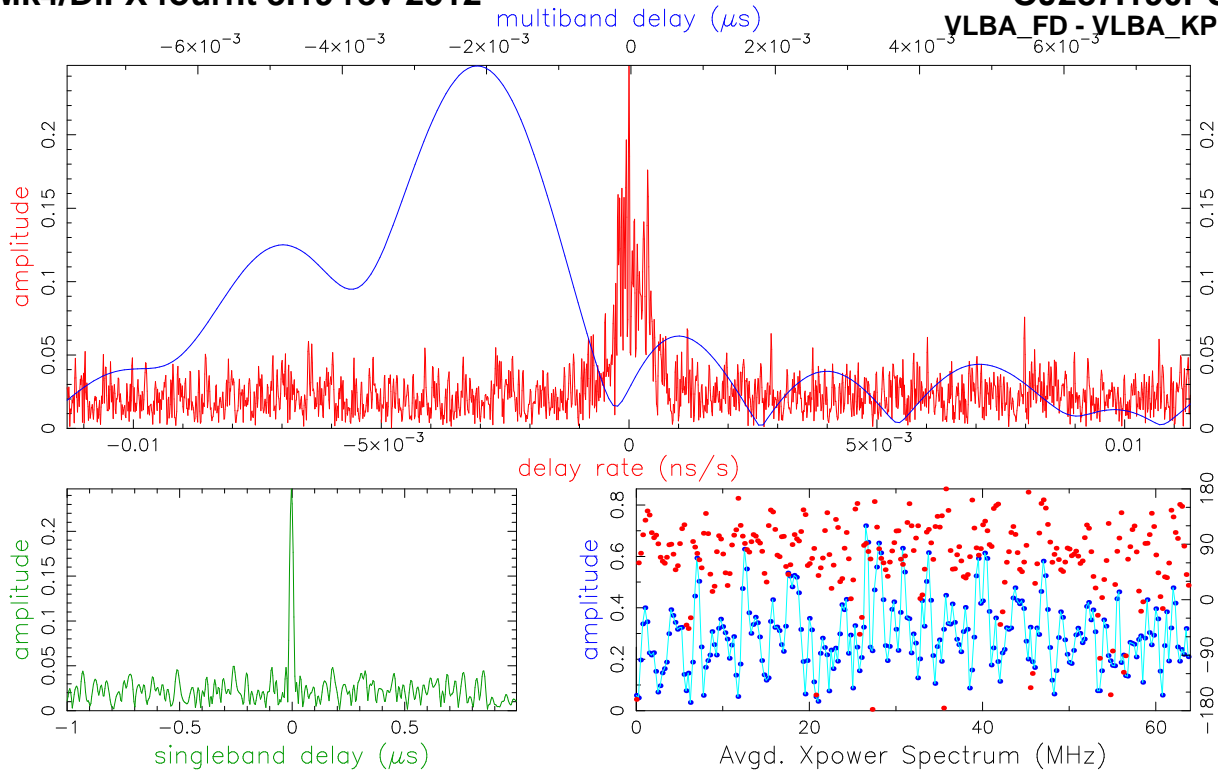
Fringe quality 0
SNR 5.9
Int time 427.008
Amp 0.138
Phase -81.9
PFD 6.0e-01
Delays (us)
SBD -0.322423
MBD -0.000913
Fringe rate (Hz)
-0.779090
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210548
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
	-63.8	-95.2	-76.0	-101.6	-80.8	-102.8	-47.1	-96.1	Phase	-81.9
	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	65.7	475.7	345.7	37.3	218.1	289.3	216.9	49.4	Sbd box	174.5
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	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.12607214355E+03		Apriori delay (usec)		2.12640118118E+03		Resid mbdelay (usec)		-9.12624E-04	+/- 1.8E-04
Sband delay (usec)	2.12607875793E+03		Apriori clock (usec)		4.2509508E+00		Resid sbdelay (usec)		-3.22423E-01	+/- 1.5E-03
Phase delay (usec)	2.12640117854E+03		Apriori clockrate (us/s)		1.0360000E-07		Resid phdelay (usec)		-2.64083E-06	+/- 6.3E-07
Delay rate (us/s)	-2.84902220449E-02		Apriori rate (us/s)		-2.84811775782E-02		Resid rate (us/s)		-9.04447E-06	+/- 2.5E-09
Total phase (deg)	186.8		Apriori accel (us/s/s)		-1.20456594058E-05		Resid phase (deg)		-81.9	+/- 19.4

ph/seg (deg) 58.5 46.5 Search (2048X32) 0.102 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.4 81.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 21.5 27.4 Inc. seg. avg. 0.139 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 28.0 47.9 Inc. frq. avg. 0.128 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 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 153.842 -510.012 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fk..190POF Output file: /Exps/c201c/v1/1234/No0032/fk.W.135.190POF

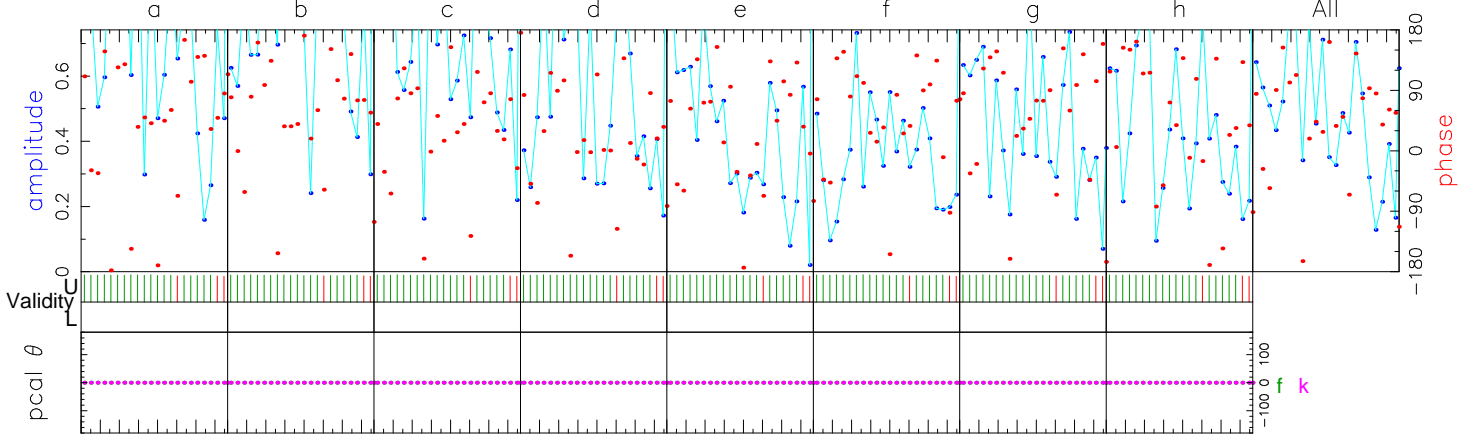


Fringe quality 9

SNR 14.0
Int time 427.008
Amp 0.247
Phase 72.0
PFD 1.3e-35
Delays (us)
SBD -0.003419
MBD -0.002124
Fringe rate (Hz)
-0.000276
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

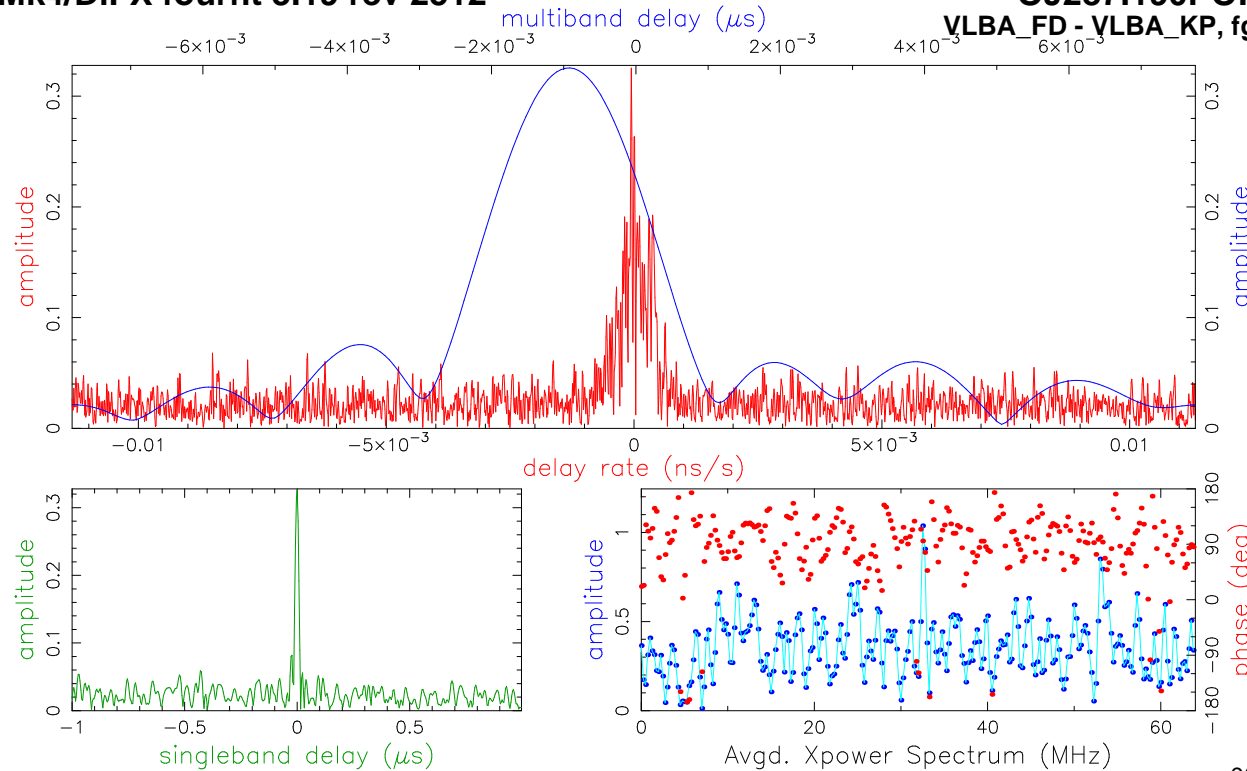
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210533
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

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
	98.3	79.1	49.0	39.0	56.0	76.7	76.4	98.1	Phase	72.0
	0.3	0.4	0.4	0.2	0.2	0.2	0.2	0.2	Ampl.	0.3
	256.8	255.8	256.7	256.8	256.1	255.2	255.8	255.0	Sbd box	256.1
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	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.12639905758E+03		Apriori delay (usec)		2.12640118118E+03		Resid mbdelay (usec)		-2.12359E-03	+/- 7.8E-05
Sband delay (usec)	2.12639776193E+03		Apriori clock (usec)		4.2509508E+00		Resid sbdelay (usec)		-3.41925E-03	+/- 6.2E-04
Phase delay (usec)	2.12640118350E+03		Apriori clockrate (us/s)		1.0360000E-07		Resid phdelay (usec)		2.32217E-06	+/- 2.6E-07
Delay rate (us/s)	-2.84811807873E-02		Apriori rate (us/s)		-2.84811775782E-02		Resid rate (us/s)		-3.20906E-09	+/- 1.0E-09
Total phase (deg)	340.8		Apriori accel (us/s/s)		-1.20456594058E-05		Resid phase (deg)		72.0	+/- 8.2

ph/seg (deg) 65.2 19.7 Search (2048X32) 0.240 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 122.1 34.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 23.6 11.6 Inc. seg. avg. 0.454 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 32.6 20.2 Inc. frq. avg. 0.258 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 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 153.842 -510.012 simultaneous interpolator

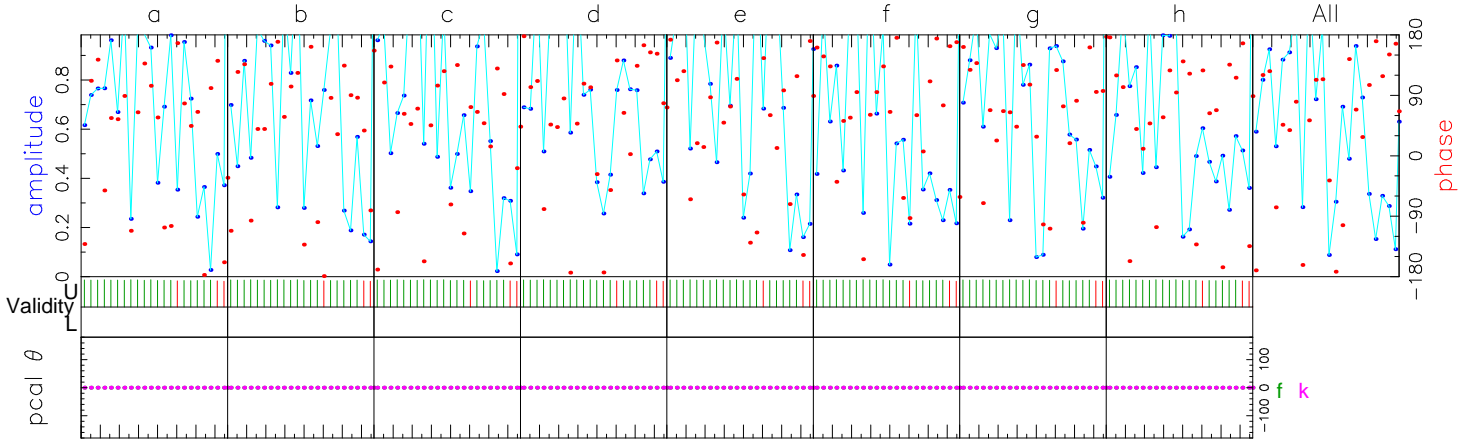


Fringe quality 9

SNR 18.5
Int time 427.009
Amp 0.328
Phase 95.3
PFD 0.0e+00
Delays (us)
SBD -0.001113
MBD -0.000964
Fringe rate (Hz)
-0.005063
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
2020:202:210538
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

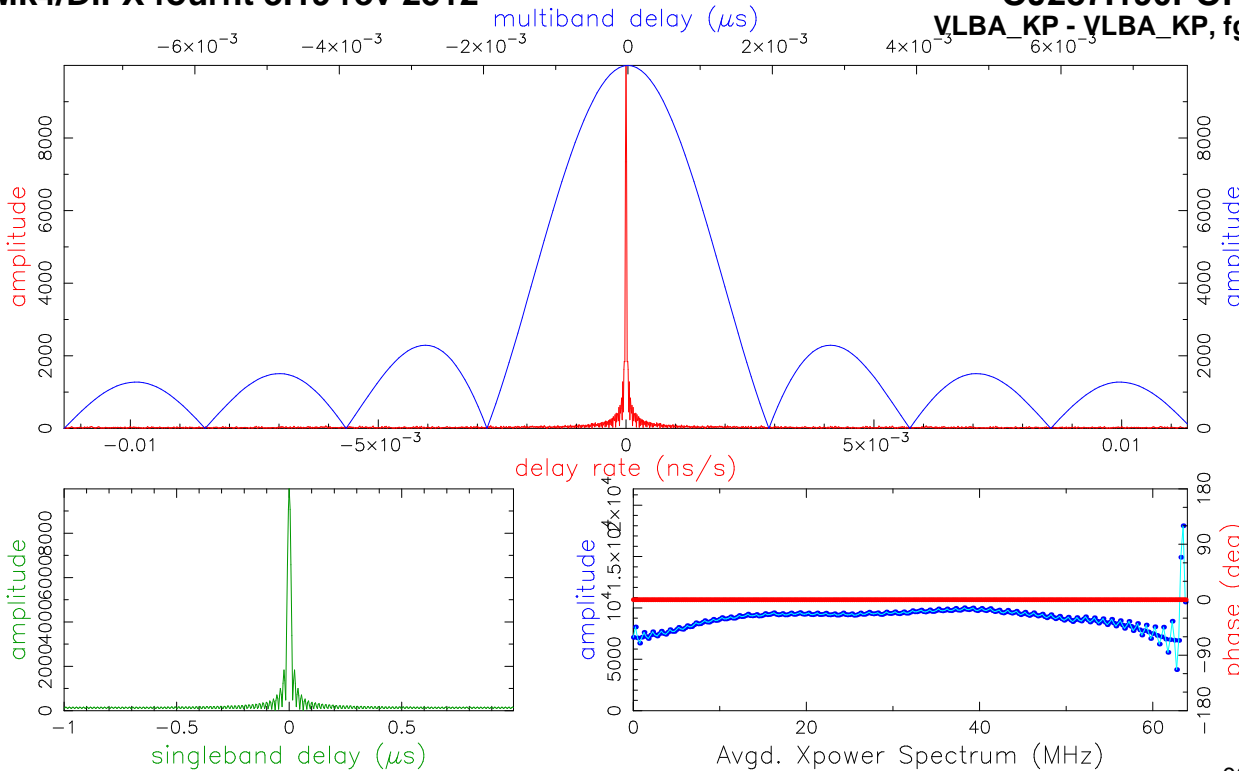


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
k	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	2.12640021679E+03		Apriori delay (usec)		2.12640118118E+03		Resid mbdelay (usec)		-9.64383E-04	+/- 5.9E-05
Sband delay (usec)	2.12640006843E+03		Apriori clock (usec)		4.2509508E+00		Resid sbdelay (usec)		-1.11275E-03	+/- 4.7E-04
Phase delay (usec)	2.12640118425E+03		Apriori clockrate (us/s)		1.0360000E-07		Resid phdelay (usec)		3.07321E-06	+/- 2.0E-07
Delay rate (us/s)	-2.84812363502E-02		Apriori rate (us/s)		-2.84811775782E-02		Resid rate (us/s)		-5.87720E-08	+/- 7.9E-10
Total phase (deg)			Apriori accel (us/s/s)		-1.20456594058E-05		Resid phase (deg)		95.3	+/- 6.2

ph/seg (deg) 77.9 14.8 Search (2048X32) 0.317 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 132.9 25.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 9.5 8.7 Inc. seg. avg. 0.592 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 12.9 15.3 Inc. frq. avg. 0.325 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 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 153.842 -510.012 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/fk..190POF Output file: /Exps/c201c/v1/1234/No0032/fk.W.92.190POF

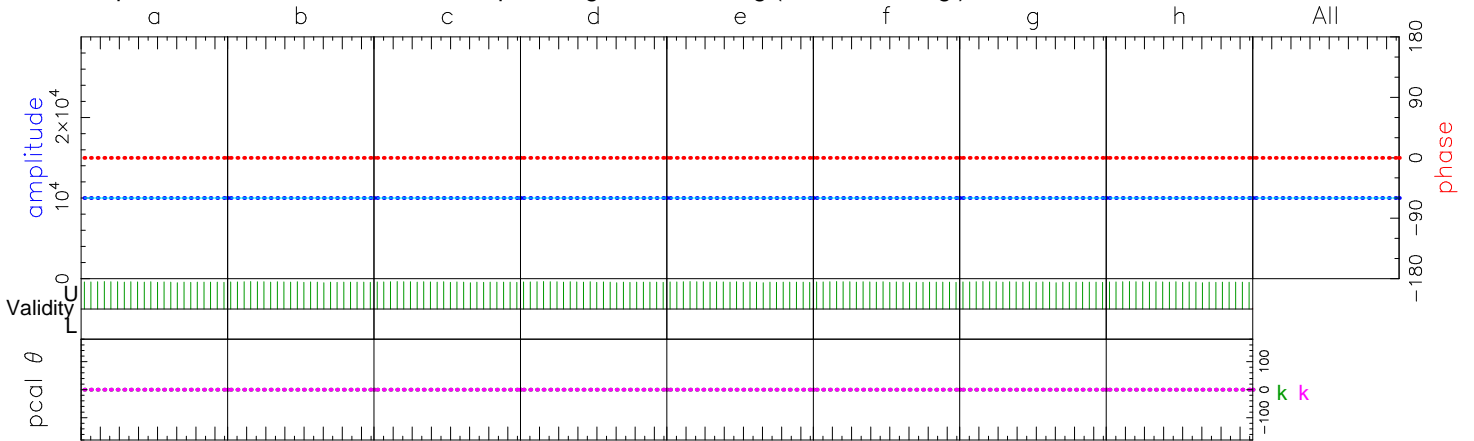
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, kk
VLBA_KP - VLBA_KP, fgroup W, pol RR



Fringe quality 9
SNR 568003.6
Int time 431.427
Amp 9999.997
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
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210541
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

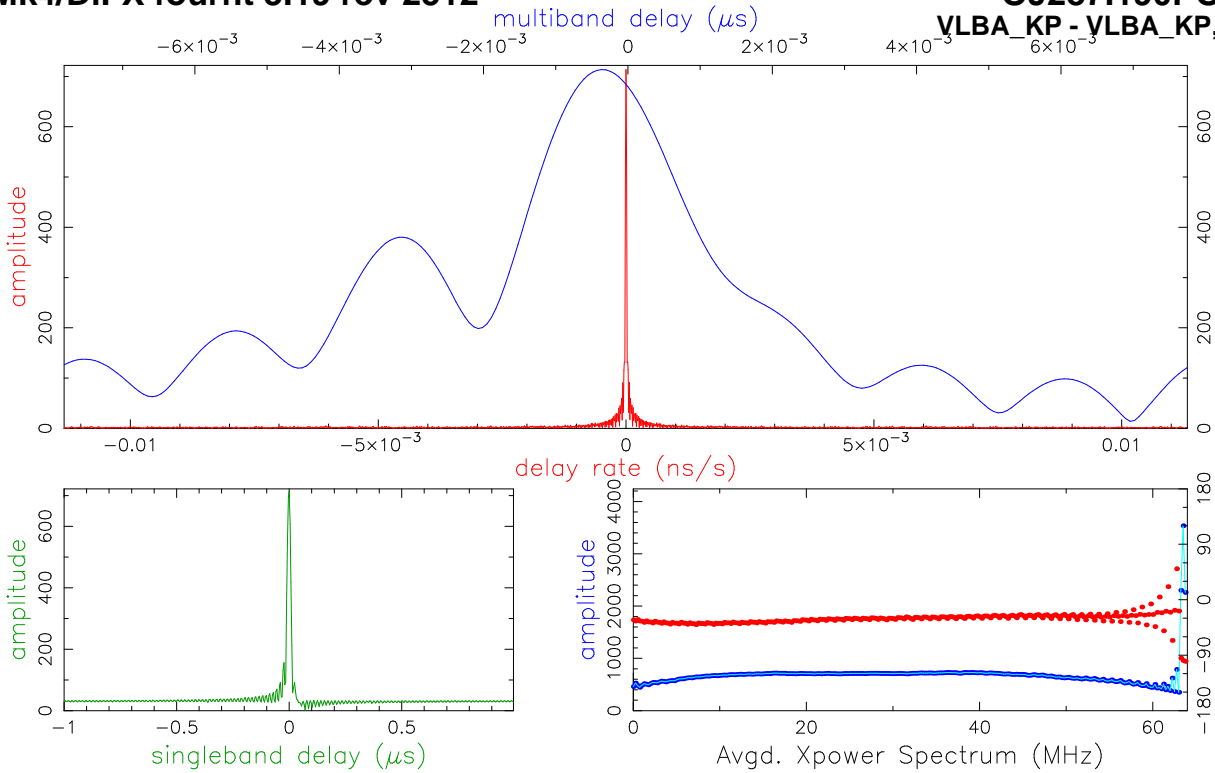


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	10000.0	10000.0
k	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
k:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
k:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
k	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
k	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	Tracks
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	Tracks
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 1.9E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 1.5E-08
Phase delay (usec)	-8.93166659008E-20	-8.93166659008E-20	-8.93166659008E-20	-8.93166659008E-20	-8.93166659008E-20	-8.93166659008E-20	-8.93166659008E-20	-8.93166659008E-20	-8.93167E-20	+/- 6.5E-12
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 2.6E-14
Total phase (deg)			-0.0						-0.0	+/- 0.0

RMS Theor. Amplitude 9999.997 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 9999.997 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. 9999.997 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 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kk..190POF Output file: /Exps/c201c/v1/1234/No0032/kk.W.106.190POF

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, kk
VLBA_KP - VLBA_KP, fgroup W, pol LR

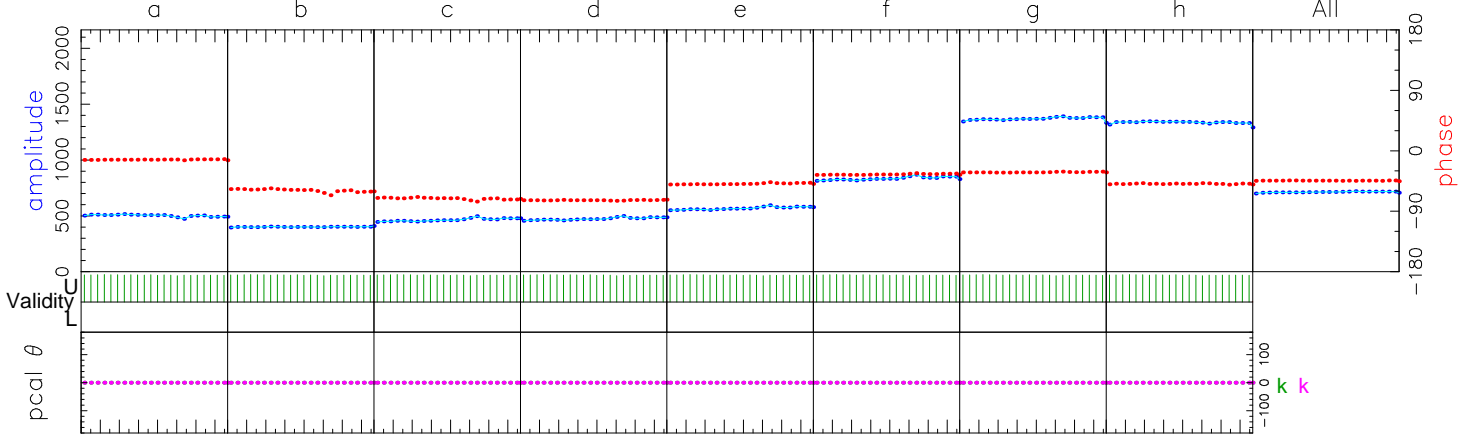


Fringe quality 6

SNR 41009.4
Int time 431.426
Amp 721.993
Phase -44.4
PFD 0.0e+00
Delays (us)
SBD -0.001397
MBD -0.000381
Fringe rate (Hz)
-0.000008
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
2020:202:210546
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



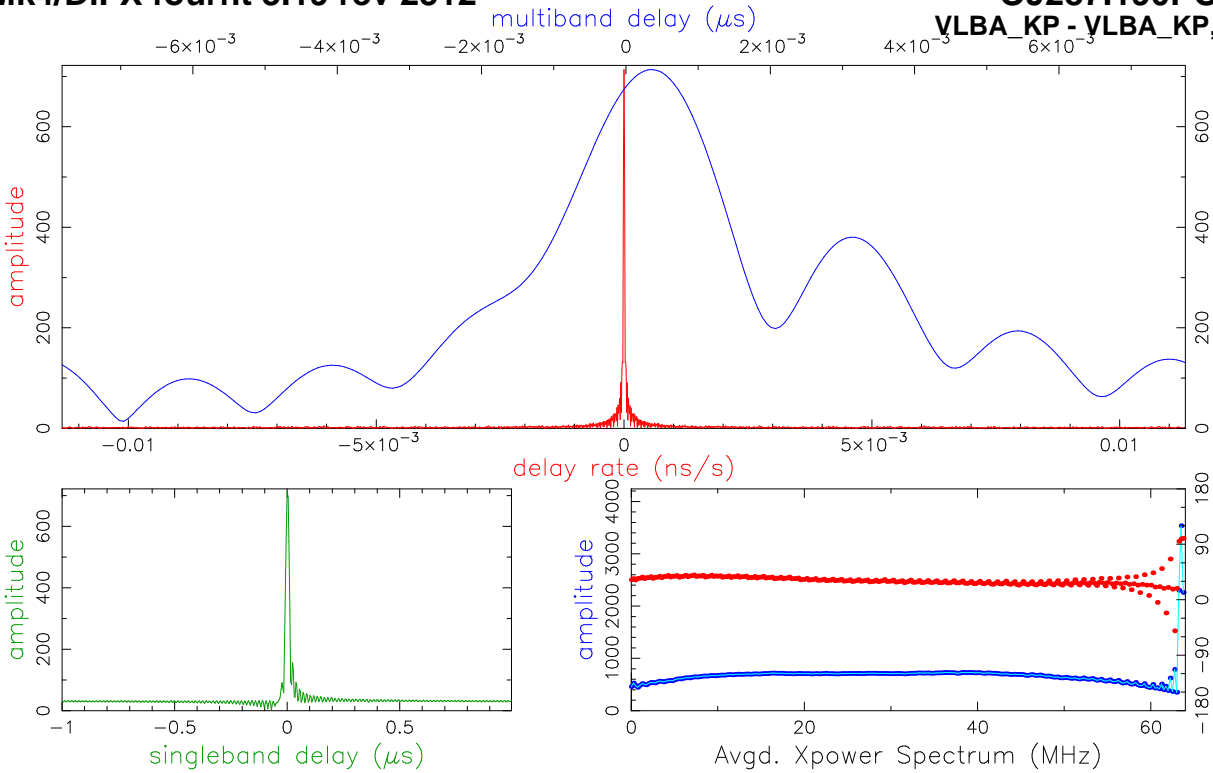
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-13.2	-58.9	-71.1	-73.6	-49.0	-35.0	-31.9	-49.1	Phase	-44.4
	502.8	401.2	464.2	474.1	568.0	834.8	1370.5	1338.0	Ampl.	744.2
	256.6	256.3	256.9	256.9	257.3	256.9	257.0	256.0	Sbd box	256.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.81187500000E-04		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-3.81188E-04	+/- 2.6E-08
Sband delay (usec)	-1.39650000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-1.39650E-03	+/- 2.1E-07
Phase delay (usec)	-1.43320474699E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-1.43320E-06	+/- 9.0E-11
Delay rate (us/s)	-8.78611448284E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-8.78611E-11	+/- 3.5E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-44.4	+/- 0.0

ph/seg (deg) 0.2 0.0 Theor. Amplitude 721.993 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.3 0.0 Search (2048X32) 708.537 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 22.5 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 51.7 0.0 Inc. seg. avg. 713.543 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 k: az 77.9 el 19.2 pa -62.2 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kk..190POF Output file: /Exps/c201c/v1/1234/No0032/kk.W.129.190POF

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, kk
VLBA_KP - VLBA_KP, fgroup W, pol RL

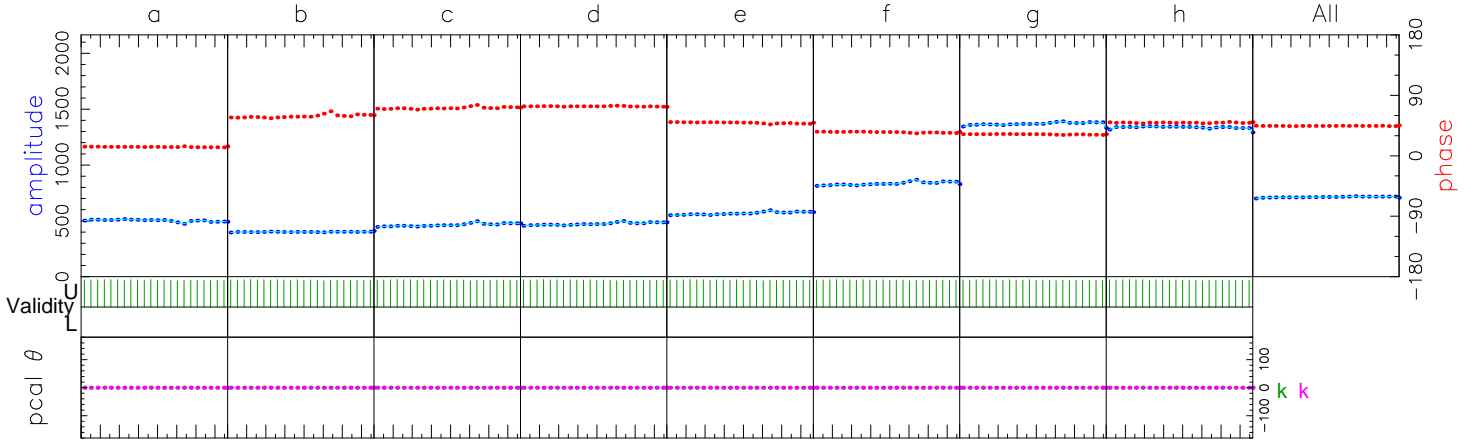


Fringe quality 6

SNR 41009.4
Int time 431.427
Amp 721.991
Phase 44.4
PFD 0.0e+00
Delays (us)
SBD 0.001397
MBD 0.000381
Fringe rate (Hz)
0.000008
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
2020:202:210551
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

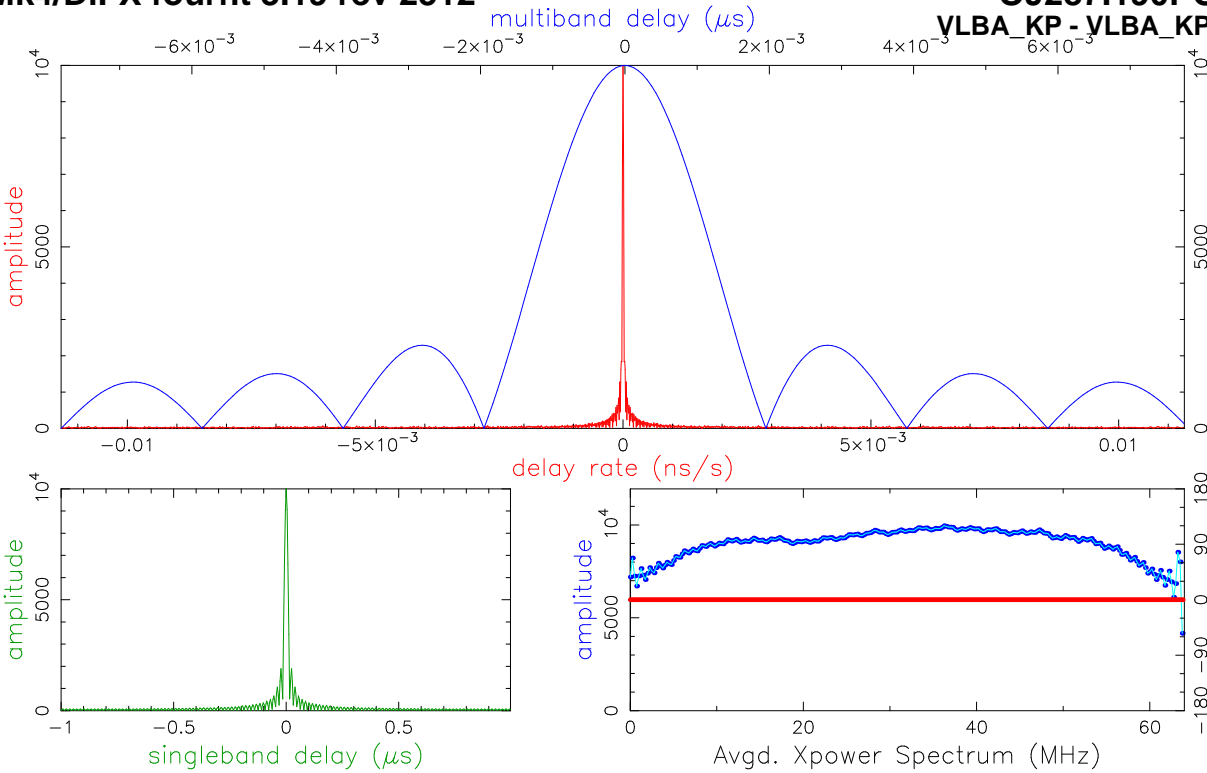


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	13.2	58.9	71.1	73.6	49.0	35.0	31.9	49.1	Phase	44.4
	502.8	401.2	464.2	474.1	568.0	834.8	1370.5	1338.0	Ampl.	744.2
	257.4	257.7	257.1	257.1	256.7	257.1	257.0	258.0	Sbd box	257.4
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:k	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	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.81187500000E-04		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		3.81188E-04	+/- 2.6E-08
Sband delay (usec)	1.39650000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		1.39650E-03	+/- 2.1E-07
Phase delay (usec)	1.43320474691E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		1.43320E-06	+/- 9.0E-11
Delay rate (us/s)	8.78611448284E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		8.78611E-11	+/- 3.5E-13
Total phase (deg)	44.4		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		44.4	+/- 0.0

RMS Theor. Amplitude 721.991 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.2 0.0 Search (2048X32) 708.535 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 1.3 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 22.5 0.0 Inc. seg. avg. 713.542 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 51.7 0.0 Inc. frq. avg. 744.217 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 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kk..190POF Output file: /Exps/c201c/v1/1234/No0032/kk.W.148.190POF

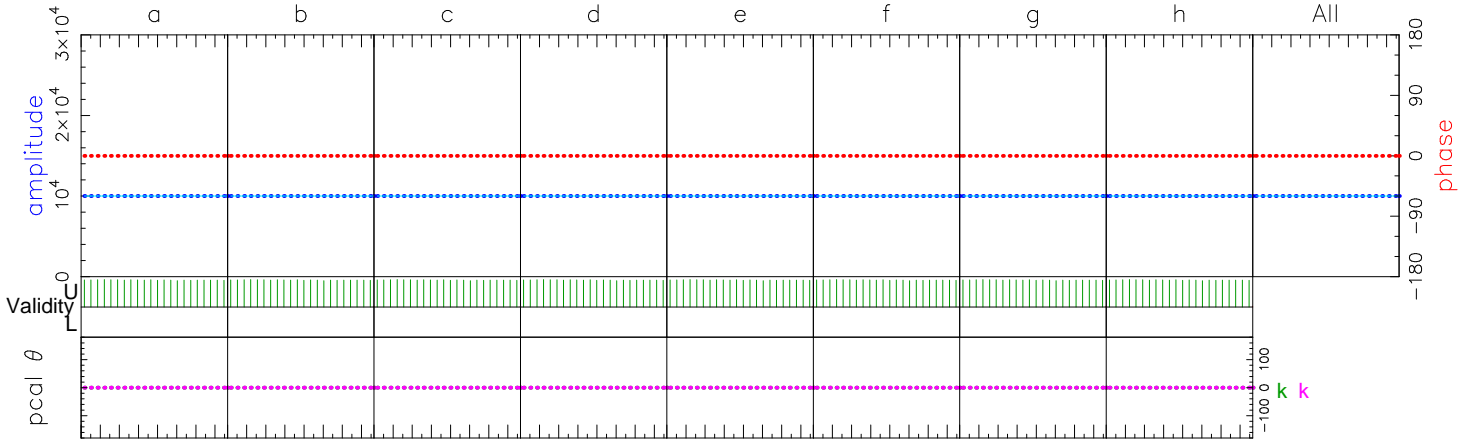


Fringe quality 9

SNR 568003.2
Int time 431.426
Amp 10000.004
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 2020:117
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210537
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



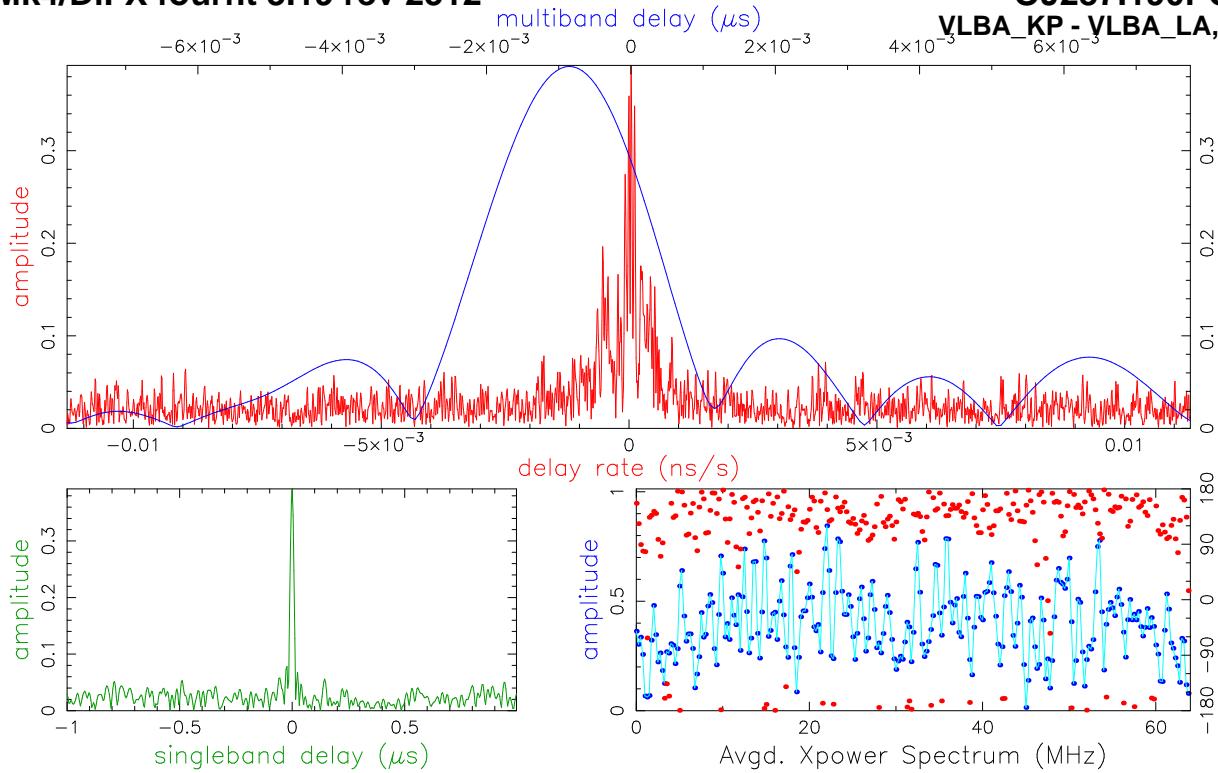
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	Ampl.	10000.0
k	1000	1000	1000	1000	1000	1000	1000	1000	Sbd box	257.0
k:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
k:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
k	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00 +/- 1.9E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid sbdelay (usec)	0.00000E+00 +/- 1.5E-08
Phase delay (usec)	-2.85422098354E-20	-2.85422098354E-20	-2.85422098354E-20	-2.85422098354E-20	-2.85422098354E-20	-2.85422098354E-20	-2.85422098354E-20	-2.85422098354E-20	Resid phdelay (usec)	-2.85422E-20 +/- 6.5E-12
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid rate (us/s)	0.00000E+00 +/- 2.6E-14
Total phase (deg)			-0.0						Resid phase (deg)	-0.0 +/- 0.0

RMS Theor. Amplitude 10000.004 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 10000.004 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.004 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 k: az 77.9 el 19.2 pa -62.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

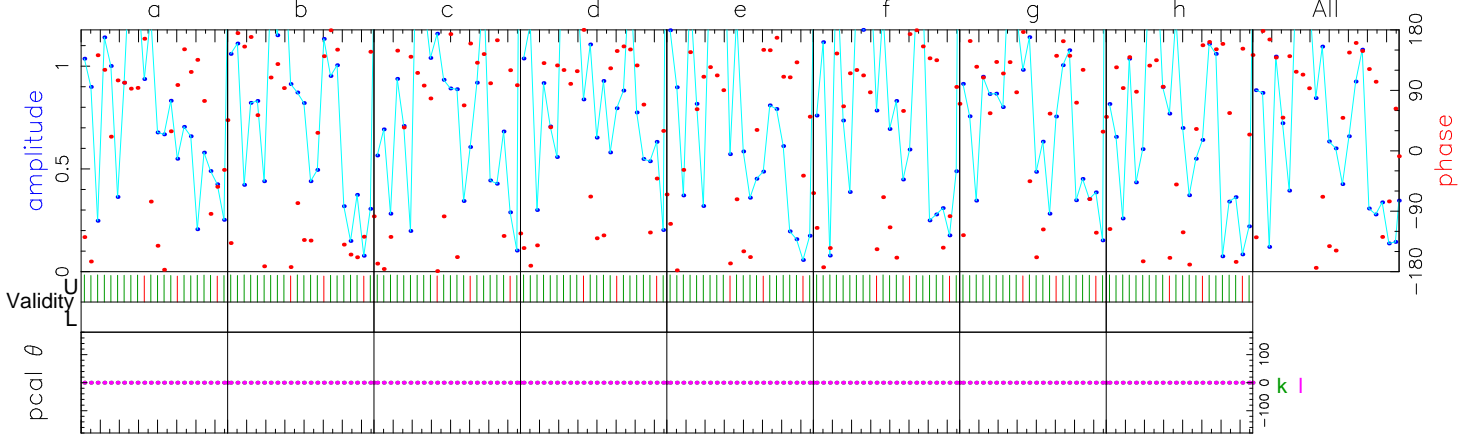
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, kl
VLBA_KP - VLBA_LA, fgroup W, pol RR



Fringe quality 9
SNR 22.1
Int time 425.516
Amp 0.392
Phase 147.0
PFD 0.0e+00
Delays (us)
SBD -0.000699
MBD -0.000868
Fringe rate (Hz) 0.004213
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
2020:202:210541
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			
l	1000	1000	1000	1000	1000	1000	1000	1000			
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
k	1000	1000	1000	1000	1000	1000	1000	1000			
l	1000	1000	1000	1000	1000	1000	1000	1000			
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)	-1.71828462284E+03				-1.71828375482E+03				Resid mbdelay (usec)	-8.68019E-04	+/- 4.9E-05
Sband delay (usec)	-1.71828445432E+03				3.3726089E+00				Resid sbdelay (usec)	-6.99500E-04	+/- 3.9E-04
Phase delay (usec)	-1.71828375008E+03				1.5640000E-07				Resid phdelay (usec)	4.74023E-06	+/- 1.7E-07
Delay rate (us/s)	8.06500561951E-02				8.06500072912E-02				Resid rate (us/s)	4.89039E-08	+/- 6.6E-10
Total phase (deg)			-83.4		7.01695194059E-06				Resid phase (deg)	147.0	+/- 5.2

ph/seg (deg) 67.6 12.4
amp/seg (%) 130.1 21.7
ph/frq (deg) 12.2 7.3
amp/frq (%) 16.1 12.8

RMS Theor. Amplitude 0.392 +/- 0.018
67.6 12.4 Search (2048X32) 0.374
21.7 12.4 Interp. 0.000
7.3 12.2 Inc. seg. avg. 0.694
12.8 12.2 Inc. frq. avg. 0.393

Group delay (usec)(sbd) -1.71828462284E+03 Apriori delay (usec) -1.71828375482E+03 Resid mbdelay (usec) -8.68019E-04 +/- 4.9E-05
Sband delay (usec) -1.71828445432E+03 Apriori clock (usec) 3.3726089E+00 Resid sbdelay (usec) -6.99500E-04 +/- 3.9E-04
Phase delay (usec) -1.71828375008E+03 Apriori clockrate (us/s) 1.5640000E-07 Resid phdelay (usec) 4.74023E-06 +/- 1.7E-07
Delay rate (us/s) 8.06500561951E-02 Apriori rate (us/s) 8.06500072912E-02 Resid rate (us/s) 4.89039E-08 +/- 6.6E-10
Total phase (deg) -83.4 Apriori accel (us/s/s) 7.01695194059E-06 Resid phase (deg) 147.0 +/- 5.2

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

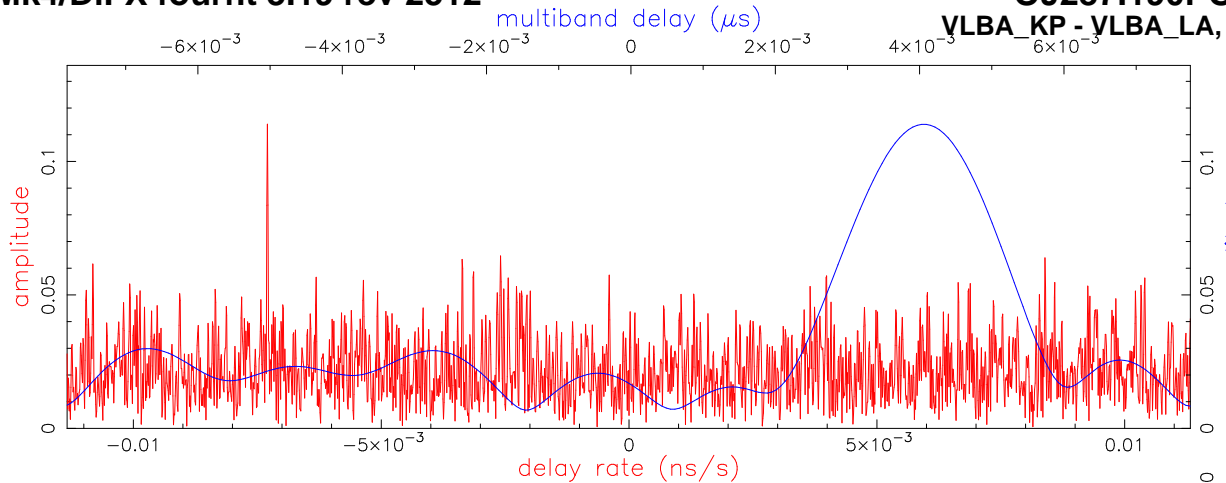
sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

k: az 77.9 el 19.2 pa -62.2 l: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) -479.232 -256.781 simultaneous interpolator

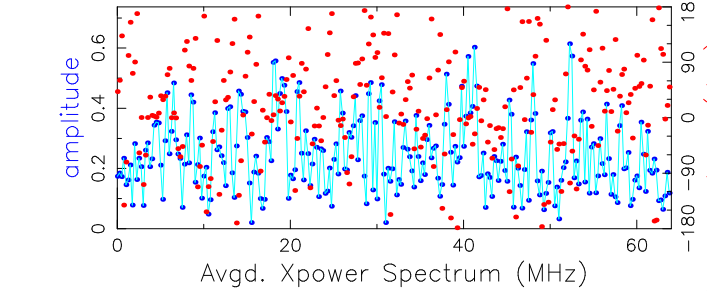
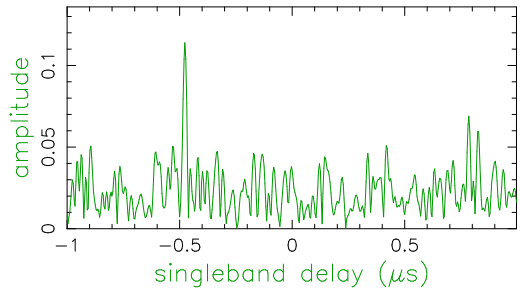
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kl..190POF Output file: /Exps/c201c/v1/1234/No0032/kl.W.107.190POF

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, kl
VLBA_KP - VLBA_LA, fgroup W, pol LR

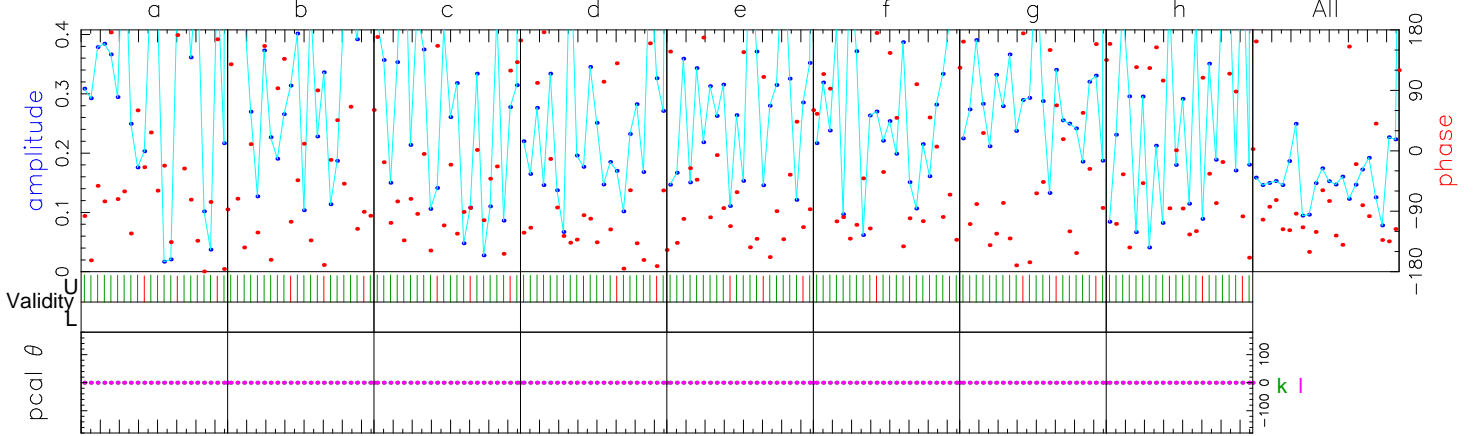


Fringe quality 0
SNR 6.4
Int time 425.515
Amp 0.136
Phase -107.6
PFD 3.5e-02
Delays (us)
SBD -0.476443
MBD 0.004064
Fringe rate (Hz)
-0.629061
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210545
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, 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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

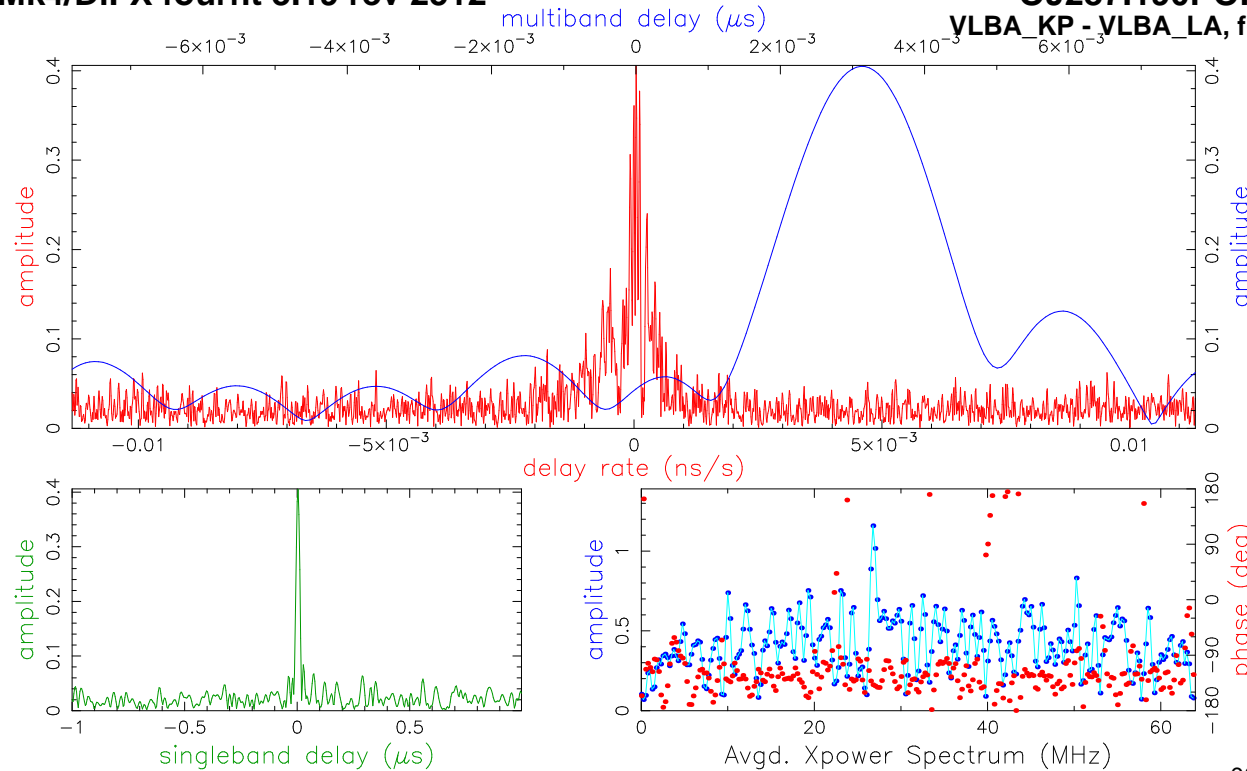
Group delay (usec)(sbd)	-1.71876406536E+03	Apriori delay (usec)	-1.71828375482E+03	Resid mbdelay (usec)	4.06446E-03	+/-	1.7E-04
Sband delay (usec)	-1.71876019782E+03	Apriori clock (usec)	3.3726089E+00	Resid sbdelay (usec)	-4.76443E-01	+/-	1.3E-03
Phase delay (usec)	-1.71828375829E+03	Apriori clockrate (us/s)	1.5640000E-07	Resid phdelay (usec)	-3.46904E-06	+/-	5.8E-07
Delay rate (us/s)	8.06427045187E-02	Apriori rate (us/s)	8.06500072912E-02	Resid rate (us/s)	-7.30277E-06	+/-	2.3E-09
Total phase (deg)	-338.0	Apriori accel (us/s/s)	7.01695194059E-06	Resid phase (deg)	-107.6	+/-	17.8

ph/seg (deg)	51.8	Theor.	42.8	Amplitude	0.136 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	55.4		74.6	Search (2048X32)	0.107	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	SampCntNorm:	enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	19.5		25.2	Inc. seg. avg.	0.147	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011	0.011		
amp/frq (%)	21.5		44.0	Inc. frq. avg.	0.129	Data rate (Mb/s):	2048	ion window (TEC)	0.00	0.00		

k: az 77.9 el 19.2 pa -62.2 l: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) -479.232 -256.781 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kl..190POF Output file: /Exps/c201c/v1/1234/No0032/kl.W.123.190POF

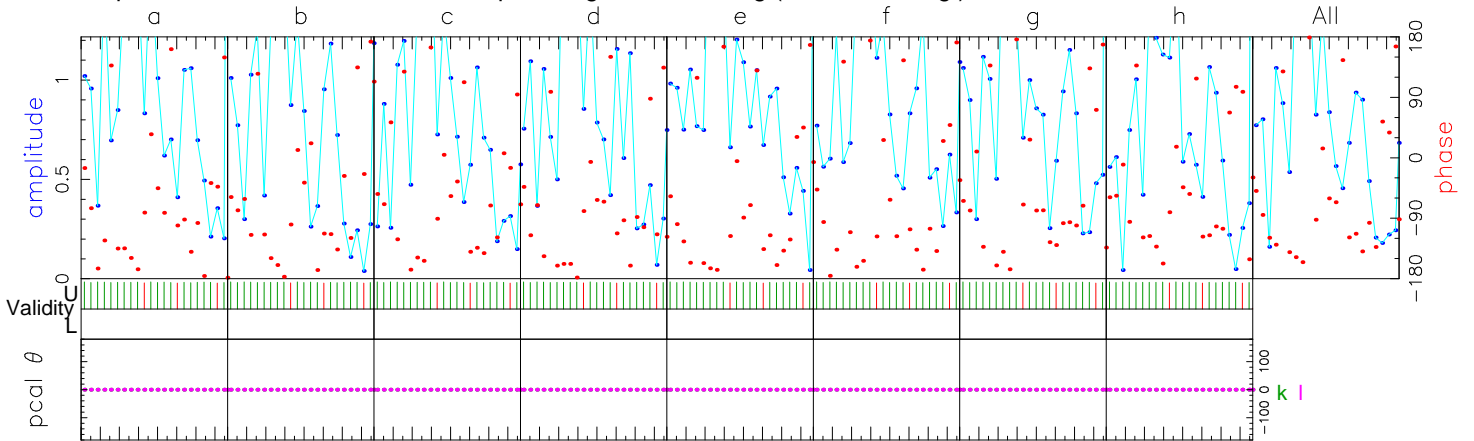
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, kl
VLBA_KP - VLBA_LA, fgroup W, pol LL



Fringe quality 9
SNR 22.9
Int time 425.513
Amp 0.406
Phase -125.8
PFD 0.0e+00
Delays (us)
SBD 0.003220
MBD 0.003119
Fringe rate (Hz) 0.004215
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
2020:202:210537
2020:014:135814
RA & Dec (J2000)
08h54m48.874928s
+20°06'30.640850"

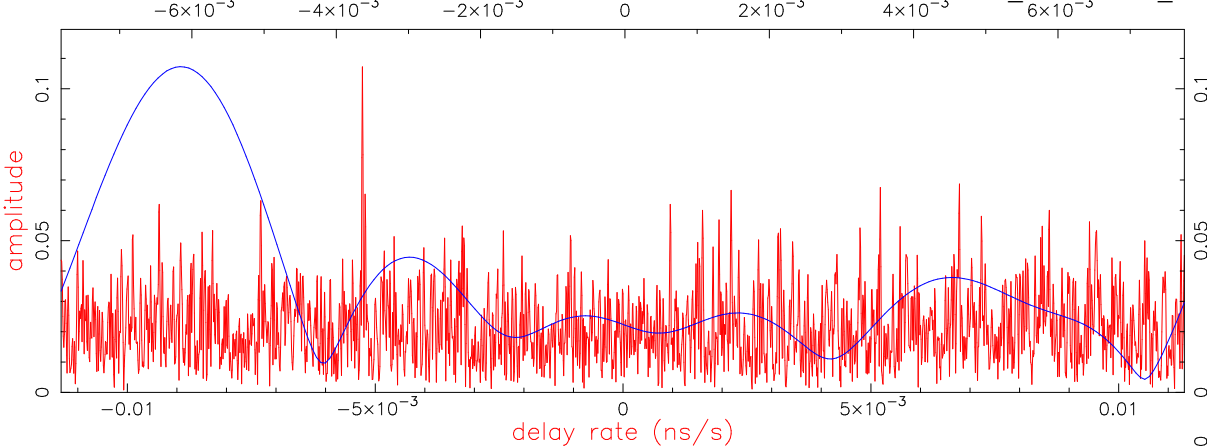
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.71828063565E+03				-1.71828375482E+03				3.11917E-03	+/- 4.7E-05
Sband delay (usec)	-1.71828053507E+03				3.3726089E+00				3.21975E-03	+/- 3.8E-04
Phase delay (usec)	-1.71828375888E+03				1.5640000E-07				-4.05747E-06	+/- 1.6E-07
Delay rate (us/s)	8.06500562235E-02				8.06500072912E-02				4.89323E-08	+/- 6.4E-10
Total phase (deg)			-356.2		7.01695194059E-06				-125.8	+/- 5.0
	RMS	Theor.	Amplitude	0.406 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	75.2	12.0	Search (2048X32)	0.384	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)		-1.000	1.000	
amp/seg (%)	134.3	20.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled		mb window (us)	-0.008	0.008
ph/frq (deg)	13.9	7.1	Inc. seg. avg.	0.737	Sample rate(MISamp/s): 128			dr window (ns/s)	-0.011	0.011
amp/frq (%)	13.4	12.4	Inc. frq. avg.	0.411	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite		ion window (TEC)	0.00	0.00

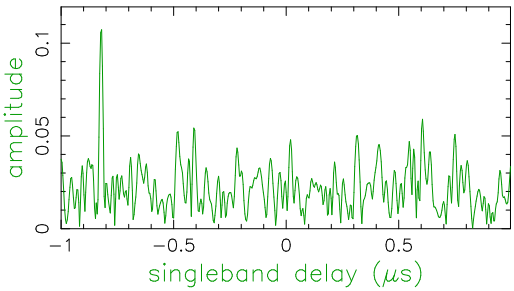
k: az 77.9 el 19.2 pa -62.2 l: az 82.1 el 24.3 pa -58.9 u,v (fr/asec) -479.232 -256.781 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kl..190POF Output file: /Exps/c201c/v1/1234/No0032/kl.W.90.190POF

multiband delay (μ s)

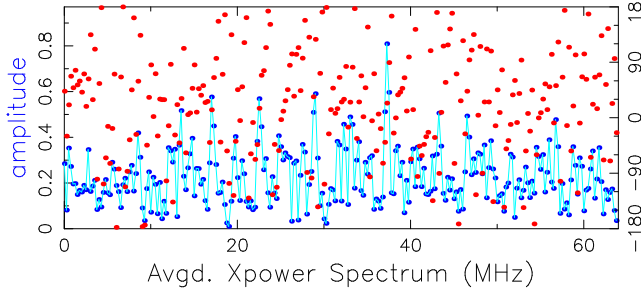


Fringe quality 0

SNR 6.2
Int time 429.604
Amp 0.120
Phase -5.7
PFD 1.5e-01
Delays (us)
SBD -0.821966
MBD -0.006190
Fringe rate (Hz)
-0.453600
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

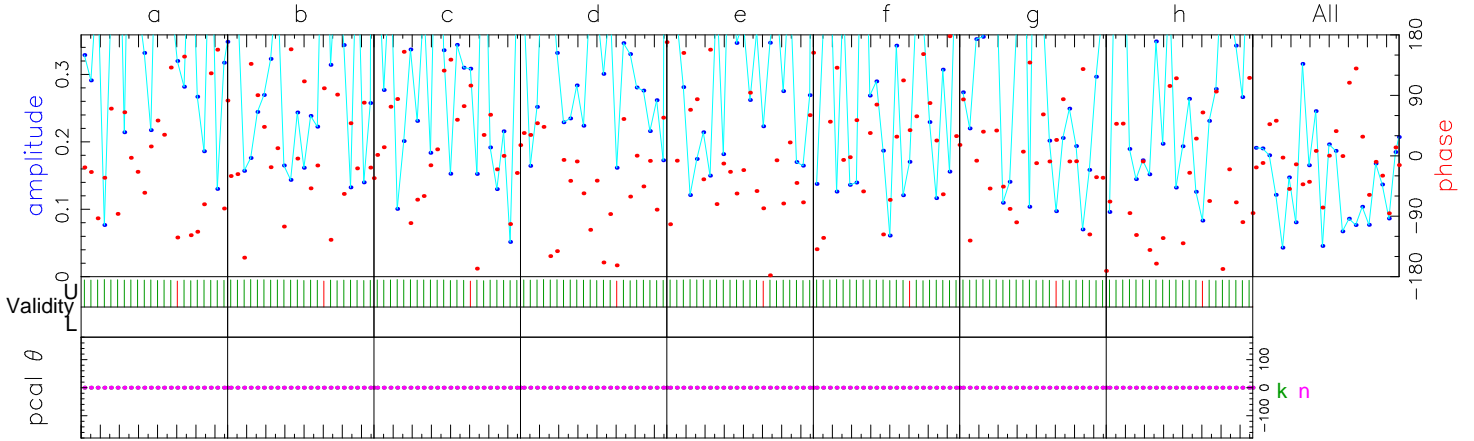


delay rate (ns/s)



Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210543
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
	-28.2	7.5	24.1	-35.2	-32.3	23.4	-6.8	27.5	Phase	-5.7
	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.0	Ampl.	0.1
	483.1	261.0	161.7	88.4	66.5	332.9	45.7	318.1	Sbd box	46.6
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	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
k	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)	-5.42568118136E+03		Apriori delay (usec)		-5.42486249152E+03		Resid mbdelay (usec)		-6.18984E-03	+/- 1.8E-04
Sband delay (usec)	-5.42568445777E+03		Apriori clock (usec)		-3.2643108E+01		Resid sbdelay (usec)		-8.21966E-01	+/- 1.4E-03
Phase delay (usec)	-5.42486249170E+03		Apriori clockrate (us/s)		-3.2859999E-07		Resid phdelay (usec)		-1.83620E-07	+/- 6.0E-07
Delay rate (us/s)	2.87517500459E-01		Apriori rate (us/s)		2.87522766305E-01		Resid rate (us/s)		-5.26585E-06	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		2.33892578979E-05		Resid phase (deg)		-5.7	+/- 18.5

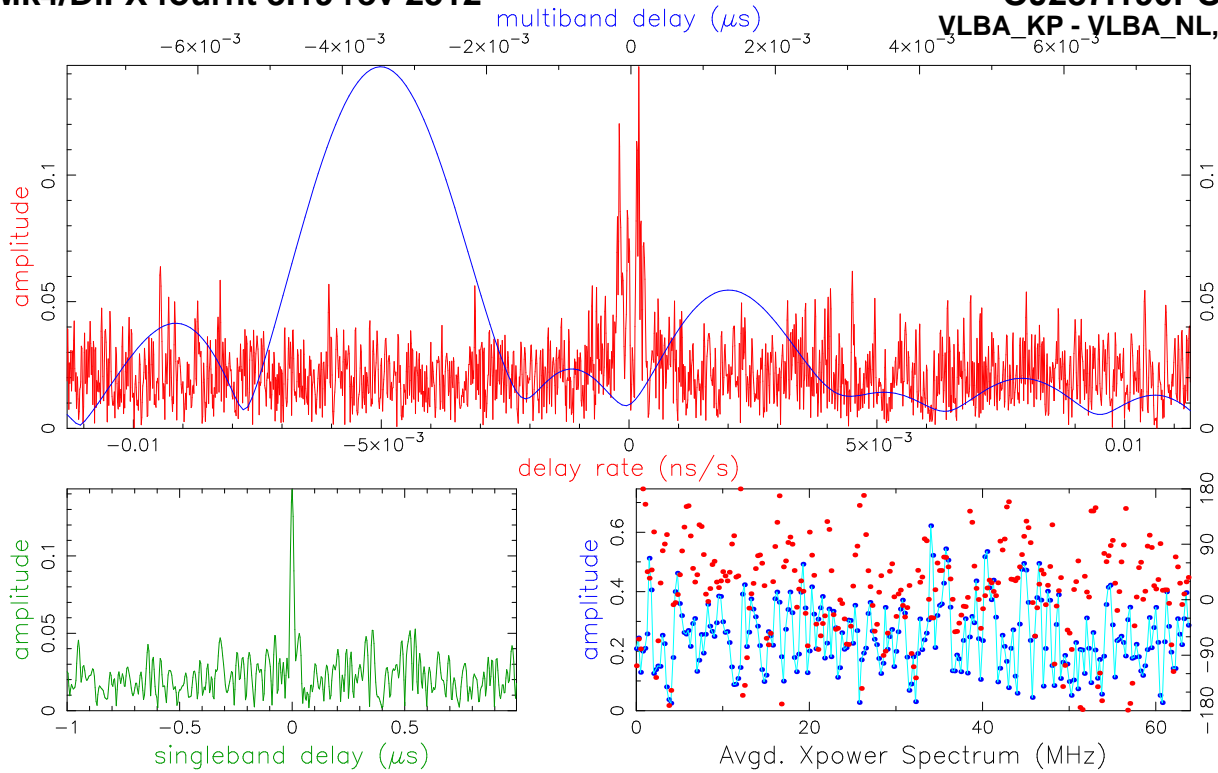
	RMS	Theor.	Amplitude	0.120 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	52.2	44.4	Search (2048X32)	0.102	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	68.3	77.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	29.1	26.2	Inc. seg. avg.	0.119	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	42.3	45.7	Inc. frq. avg.	0.116	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

k: az 77.9 el 19.2 pa -62.2 n: az 94.6 el 35.9 pa -52.3 u,v (fr/asec) -1711.966 -458.600 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kn..190POF Output file: /Exps/c201c/v1/1234/No0032/kn.W.114.190POF

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, kn
VLBA_KP - VLBA_NL, fgroup W, pol RR

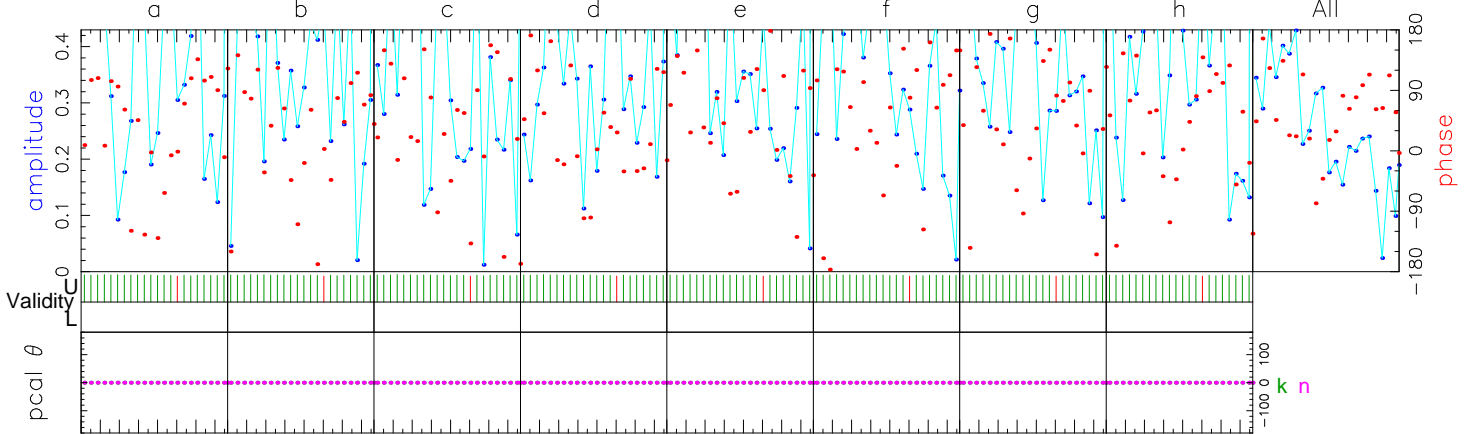


Fringe quality 9

SNR 8.1
Int time 429.605
Amp 0.143
Phase 64.5
PFD 1.6e-07
Delays (us)
SBD -0.000762
MBD -0.003483
Fringe rate (Hz) 0.017390
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
2020:202:210538
2020:014:135814
RA & Dec (J2000) 08h54m48.874928s
+20°06'30.640850"

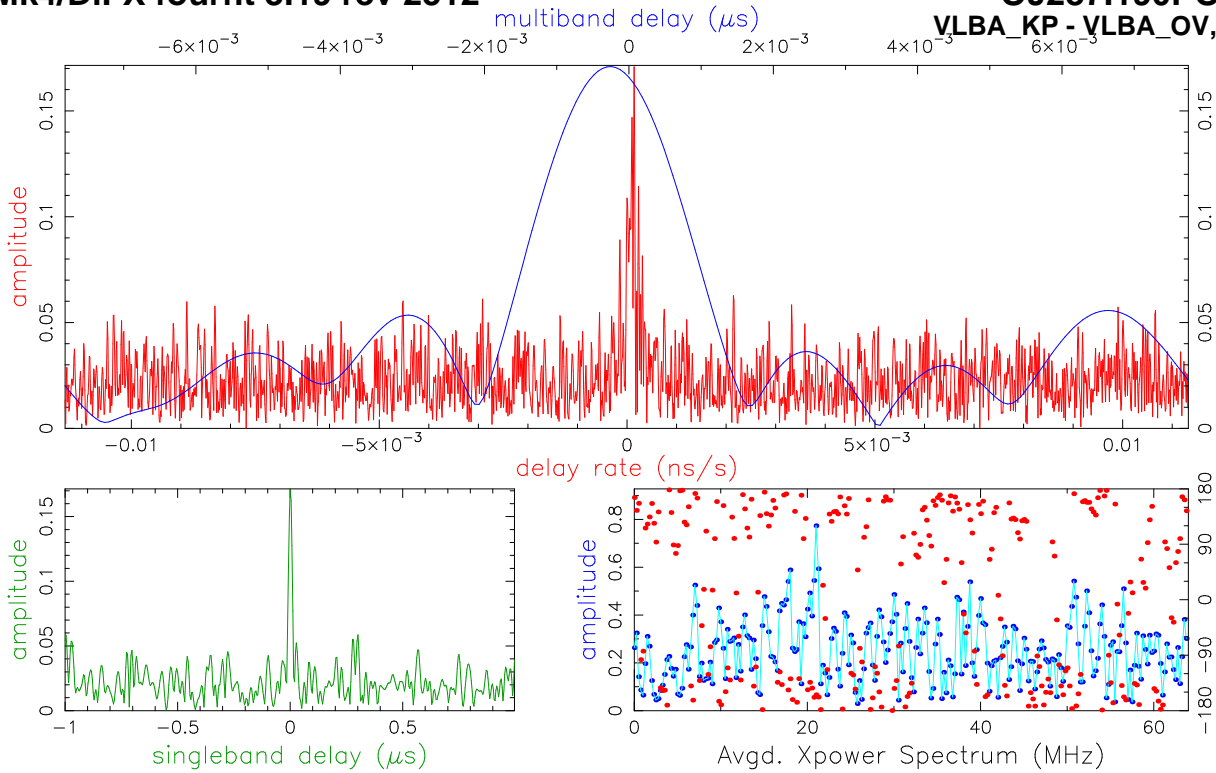
Amp. and Phase vs. time for each freq., 23 segs, 39 APs / seg (19.97 sec / seg.), time ticks 30 sec



	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
k:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:n	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-5.42486597445E+03				-5.42486249152E+03				-3.48293E-03	+/- 1.3E-04
Sband delay (usec)	-5.42486325352E+03				-3.2643108E+01				-7.62000E-04	+/- 1.1E-03
Phase delay (usec)	-5.42486248944E+03				-3.2859999E-07				2.07946E-06	+/- 4.5E-07
Delay rate (us/s)	2.87522968189E-01				2.87522766305E-01				2.01884E-07	+/- 1.8E-09
Total phase (deg)			57.5		2.33892578979E-05				64.5	+/- 14.1
	RMS	Theor.	Amplitude	0.143 +/- 0.018	Pcal mode: MANUAL, MANUAL				PC period (AP's) 5, 5	
ph/seg (deg)	56.2	33.8	Search (2048X32)	0.139	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000 1.000
amp/seg (%)	108.9	59.1	Interp.	0.000	Bits/sample: 2x2				mb window (us)	-0.008 0.008
ph/frq (deg)	17.0	20.0	Inc. seg. avg.	0.219	Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011 0.011
amp/frq (%)	19.1	34.8	Inc. frq. avg.	0.139	Data rate(Mb/s): 2048				ion window (TEC)	0.00 0.00
k: az 77.9 el 19.2 pa -62.2			n: az 94.6 el 35.9 pa -52.3		u,v (fr/asec) -1711.966 -458.600					simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, ko
VLBA_KP - VLBA_OV, fgroup W, pol RR

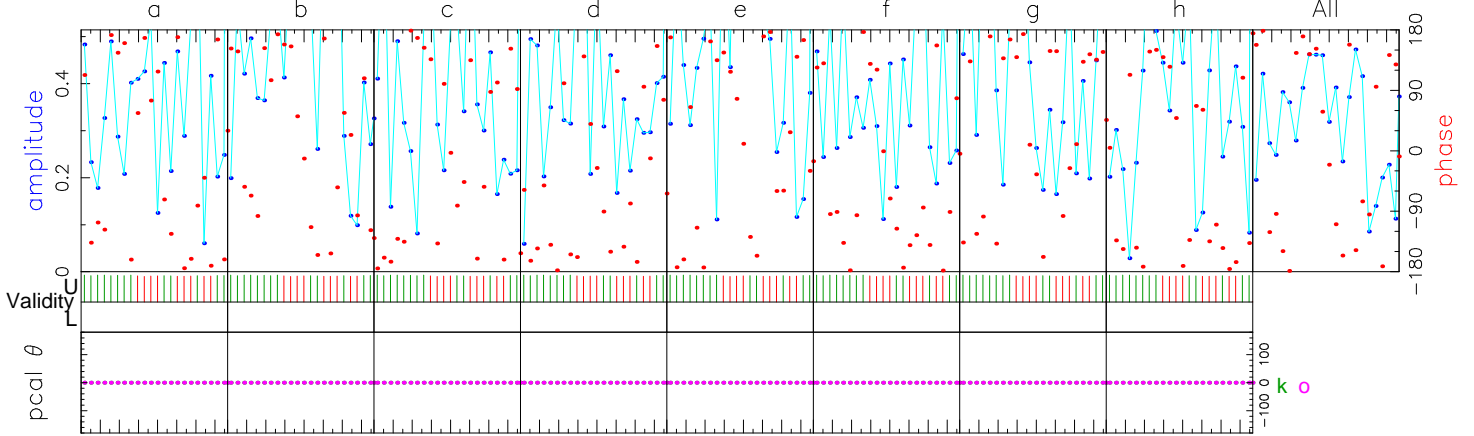


Fringe quality 9

SNR 9.6
Int time 419.676
Amp 0.171
Phase -174.7
PFD 3.1e-13
Delays (us)
SBD 0.000788
MBD -0.000231
Fringe rate (Hz) 0.012687
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
2020:202:210544
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

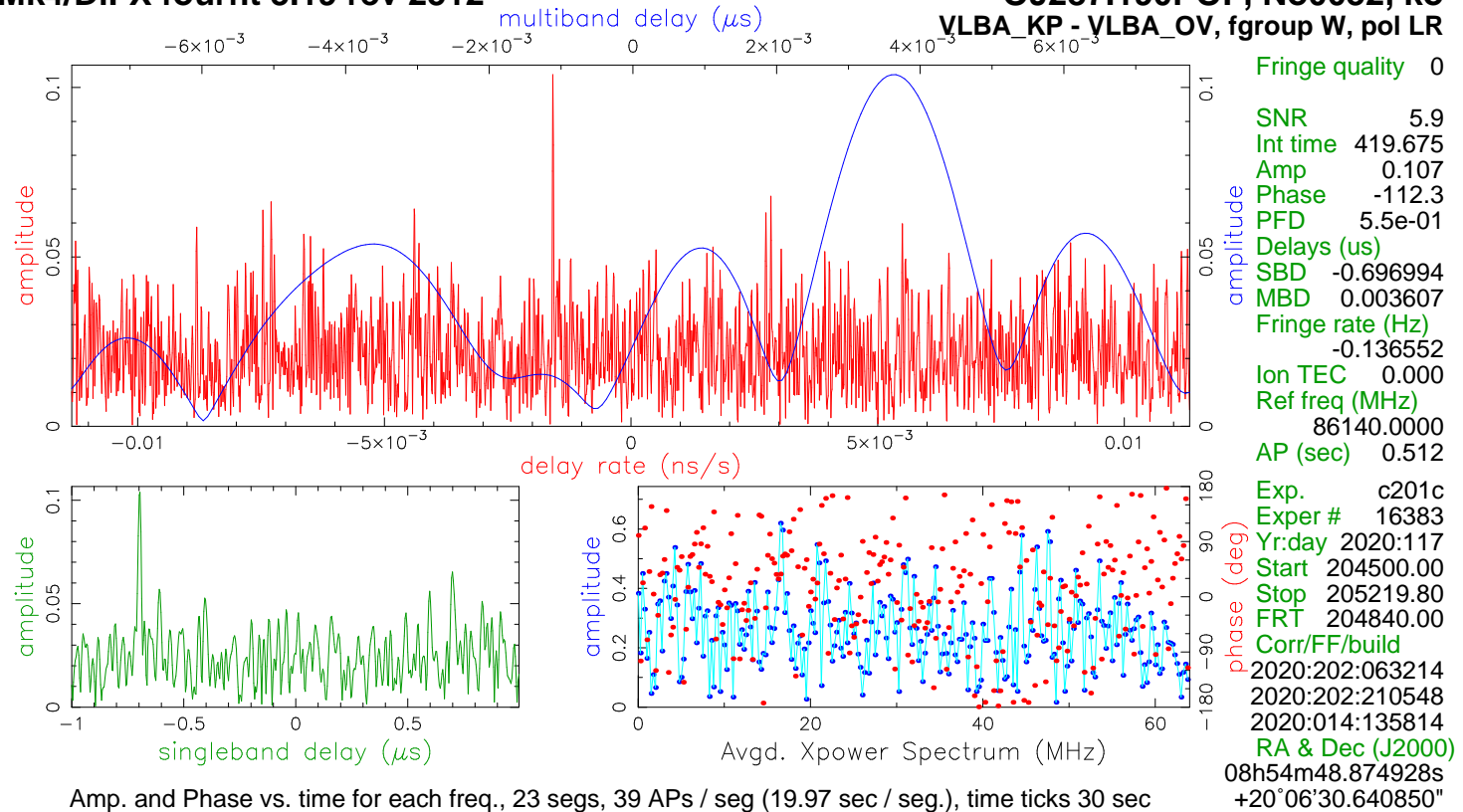


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		1.47640414390E+03			1.47640437449E+03				Resid mbdelay (usec)	-2.30592E-04 +/- 1.1E-04
Sband delay (usec)		1.47640516199E+03			-2.0438780E+01				Resid sbdelay (usec)	7.87500E-04 +/- 9.0E-04
Phase delay (usec)		1.47640436885E+03			-1.9560001E-07				Resid phdelay (usec)	-5.63331E-06 +/- 3.8E-07
Delay rate (us/s)		5.43657001457E-02			5.43655528621E-02				Resid rate (us/s)	1.47284E-07 +/- 1.5E-09
Total phase (deg)			119.9		-1.08827102459E-05				Resid phase (deg)	-174.7 +/- 11.9

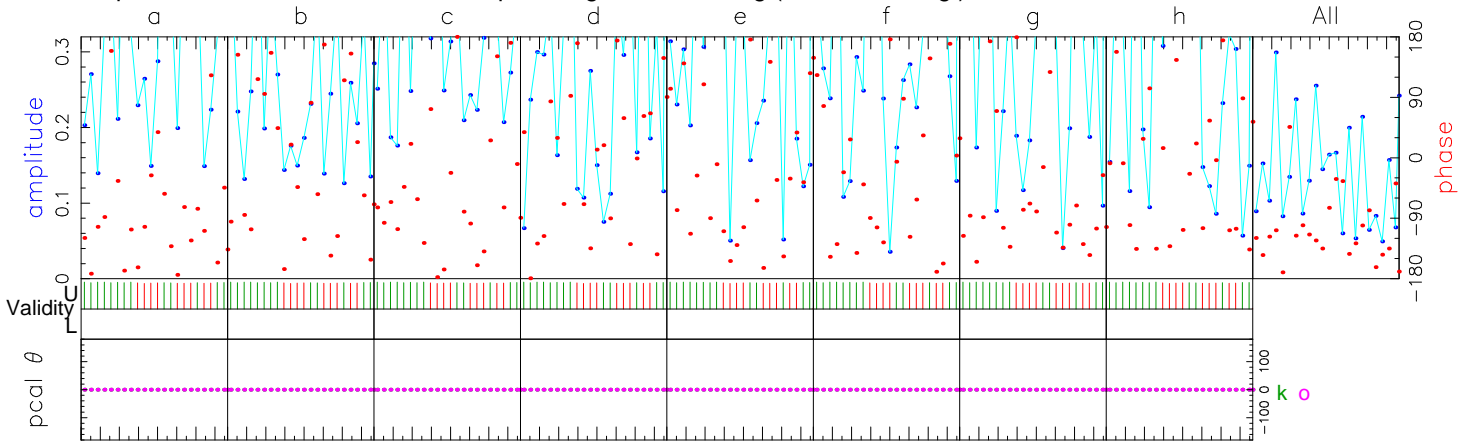
	RMS	Theor.	Amplitude	0.171 +/- 0.018	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	64.4	28.6	Search (2048X32)	0.163	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	107.4	49.9	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	17.1	16.9	Inc. seg. avg.	0.279	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	14.8	29.4	Inc. frq. avg.	0.170	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

k: az 77.9 el 19.2 pa -62.2 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) -348.503 -939.790 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/ko..190POF Output file: /Exps/c201c/v1/1234/No0032/ko.W.118.190POF



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

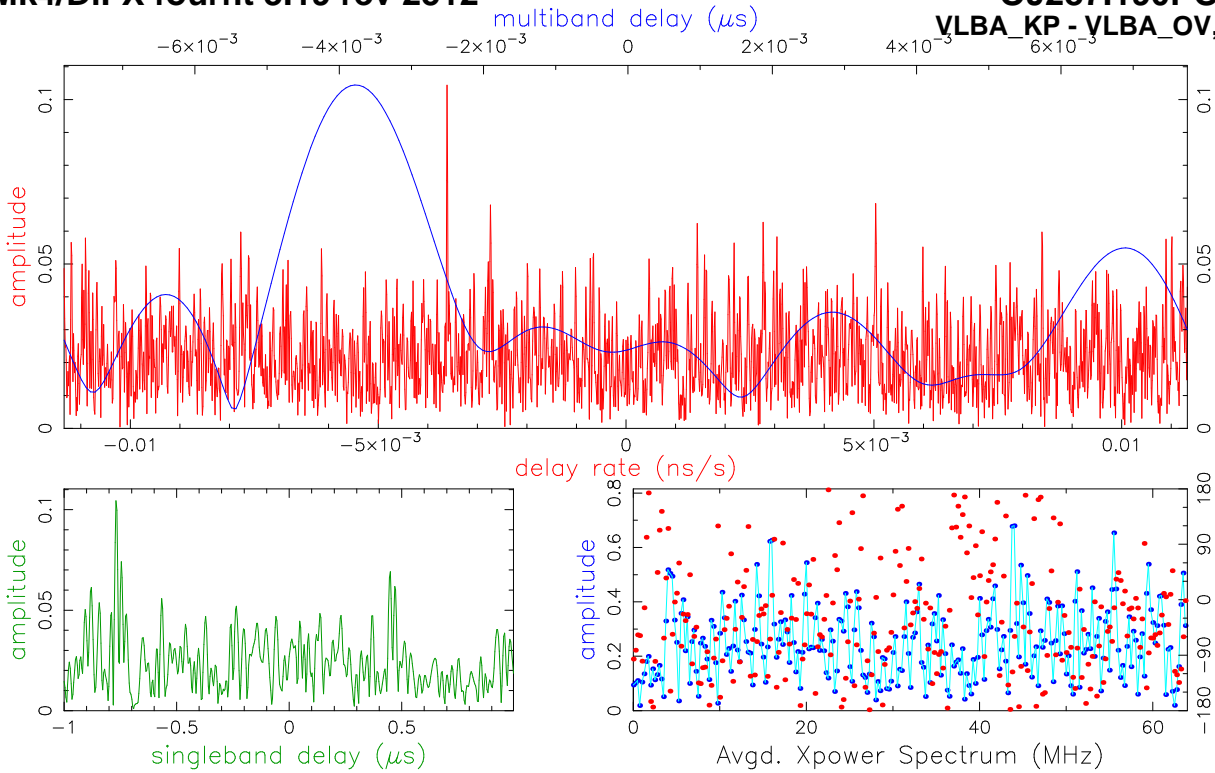


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-110.2	-150.9	-97.3	137.5	-82.4	-134.3	-109.3	-102.9	Phase	-112.3
	0.2	0.0	0.1	0.0	0.1	0.1	0.2	0.1	Ampl.	0.1
	78.4	489.5	466.9	89.4	438.8	283.7	79.3	225.6	Sbd box	78.6
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
k	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)	1.47570485656E+03		Apriori delay (usec)	1.47640437449E+03	Resid mbdelay (usec)	3.60707E-03	+/-	1.8E-04		
Sband delay (usec)	1.47570738024E+03		Apriori clock (usec)	-2.0438780E+01	Resid sbdelay (usec)	-6.96994E-01	+/-	1.5E-03		
Phase delay (usec)	1.47640437087E+03		Apriori clockrate (us/s)	-1.9560001E-07	Resid phdelay (usec)	-3.62237E-06	+/-	6.2E-07		
Delay rate (us/s)	5.43639676324E-02		Apriori rate (us/s)	5.4365528621E-02	Resid rate (us/s)	-1.58523E-06	+/-	2.5E-09		
Total phase (deg)		182.3	Apriori accel (us/s/s)	-1.08827102459E-05	Resid phase (deg)	-112.3	+/-	19.3		

	RMS	Theor.	Amplitude	0.107 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	50.8	46.4	Search (2048X32)	0.102	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	71.5	80.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	50.6	27.3	Inc. seg. avg.	0.103	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	52.7	47.7	Inc. frq. avg.	0.104	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

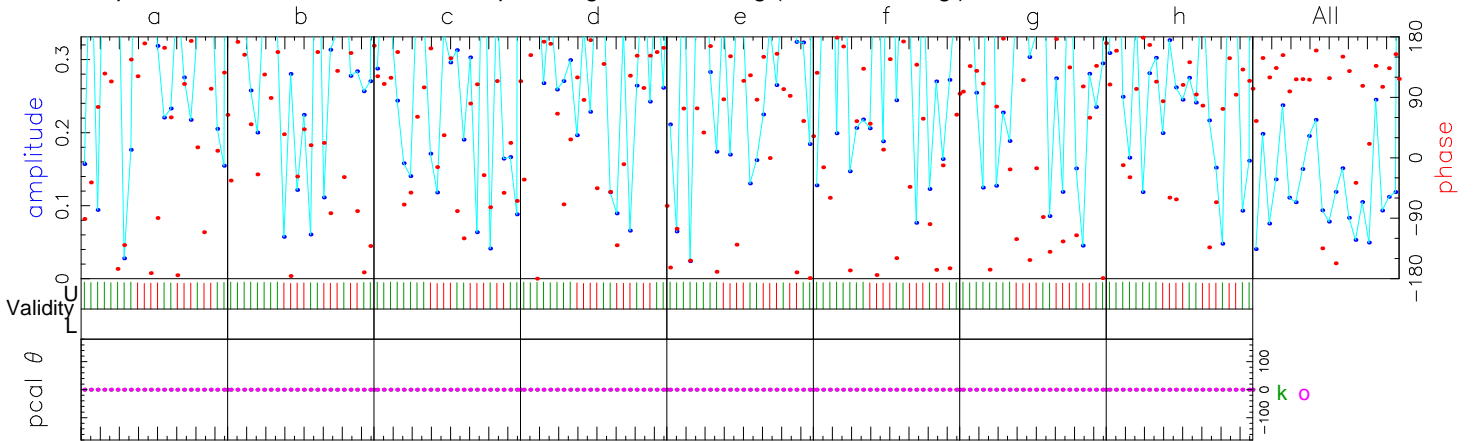
k: az 77.9 el 19.2 pa -62.2 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) -348.503 -939.790 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/ko..190POF Output file: /Exps/c201c/v1/1234/No0032/ko.W.136.190POF



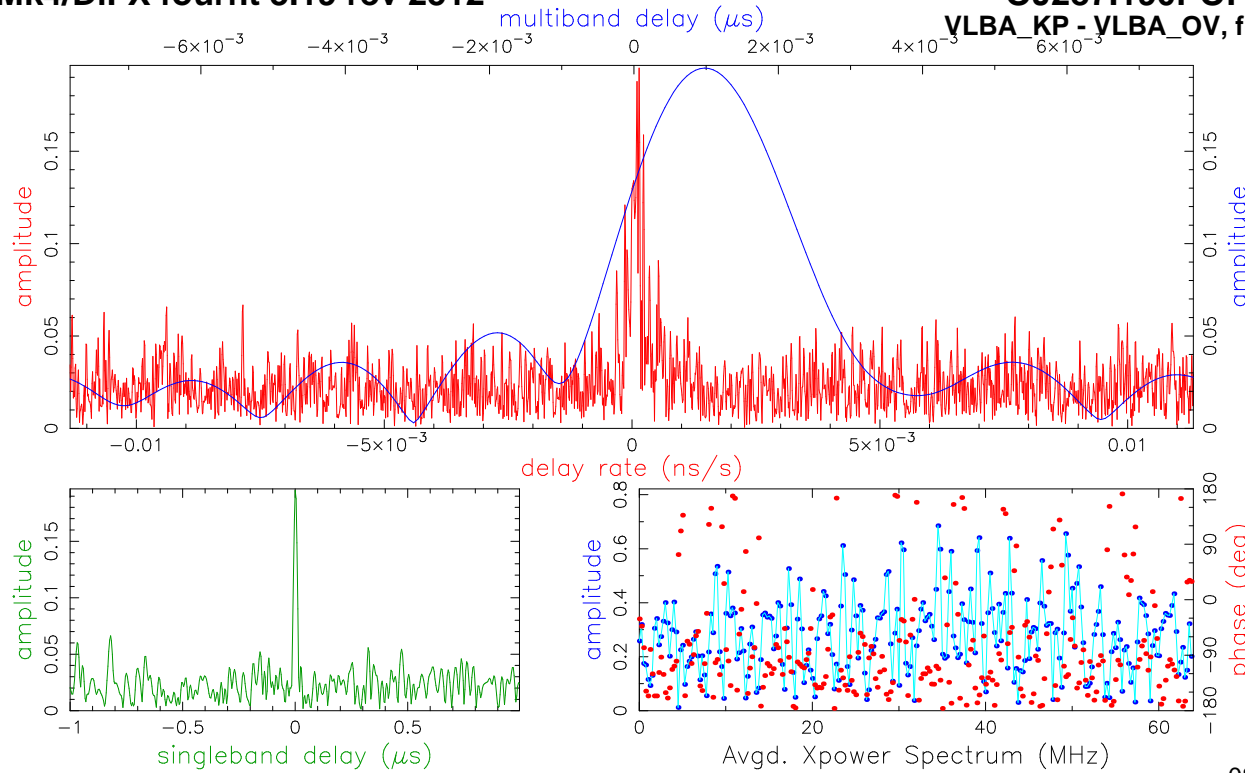
Fringe quality 0
SNR 5.9
Int time 419.676
Amp 0.110
Phase 135.8
PFD 5.4e-01
Delays (us)
SBD -0.768248
MBD -0.003742
Fringe rate (Hz)
-0.311548
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210552
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



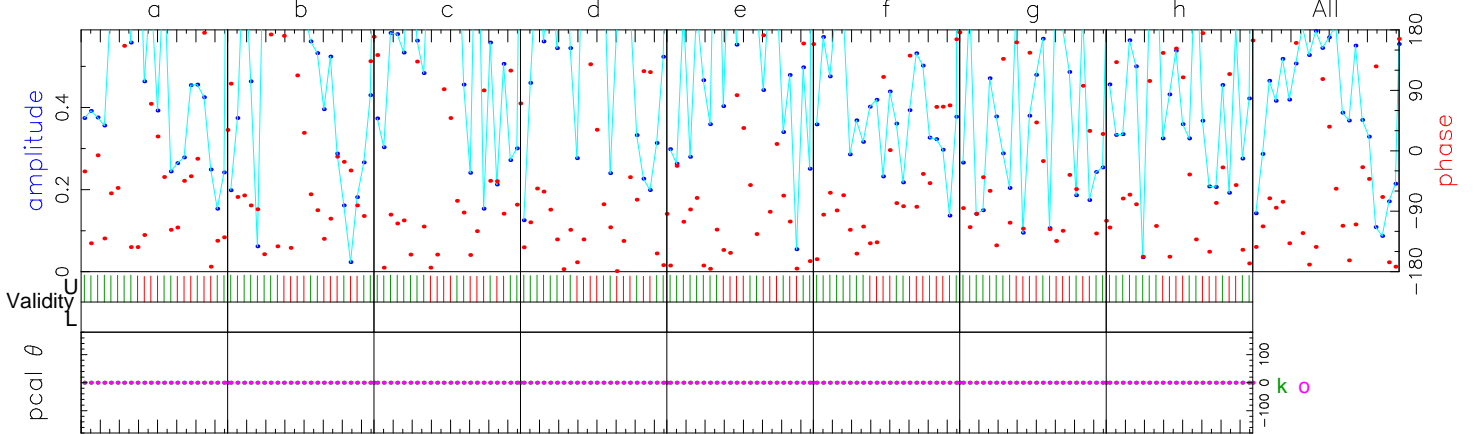
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	151.7	155.6	85.6	142.0	104.0	160.1	166.5	121.2	Phase	135.8
	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	Ampl.	0.1
	61.0	500.2	139.8	268.8	425.2	267.9	443.3	205.9	Sbd box	60.3
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:o	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	
o	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.47563500786E+03		Apriori delay (usec)		1.47640437449E+03		Resid mbdelay (usec)		-3.74163E-03	+/- 1.8E-04
Sband delay (usec)	1.47563612649E+03		Apriori clock (usec)		-2.0438780E+01		Resid sbdelay (usec)		-7.68248E-01	+/- 1.5E-03
Phase delay (usec)	1.47640437887E+03		Apriori clockrate (us/s)		-1.9560001E-07		Resid phdelay (usec)		4.37779E-06	+/- 6.2E-07
Delay rate (us/s)	5.43619360992E-02		Apriori rate (us/s)		5.4365528621E-02		Resid rate (us/s)		-3.61676E-06	+/- 2.5E-09
Total phase (deg)	70.4		Apriori accel (us/s/s)		-1.08827102459E-05		Resid phase (deg)		135.8	+/- 19.3

ph/seg (deg) 55.6 46.3 Search (2048X32) 0.101 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 69.3 80.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 31.5 27.3 Inc. seg. avg. 0.100 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 33.8 47.7 Inc. frq. avg. 0.109 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 77.9 el 19.2 pa -62.2 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) -348.503 -939.790 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/ko..190POF Output file: /Exps/c201c/v1/1234/No0032/ko.W.153.190POF



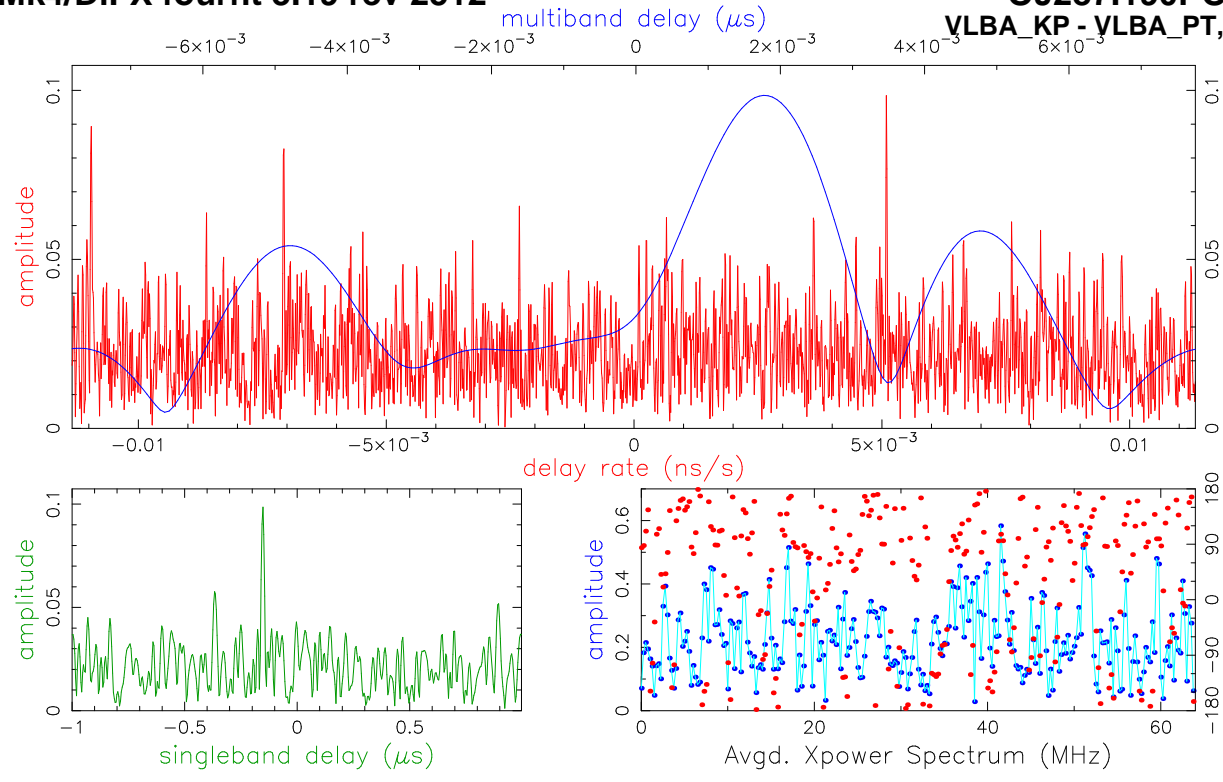
Fringe quality 9
SNR 11.0
Int time 419.675
Amp 0.196
Phase -115.9
PFD 1.7e-19
Delays (us)
SBD 0.001117
MBD 0.001001
Fringe rate (Hz) 0.012594
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210539
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



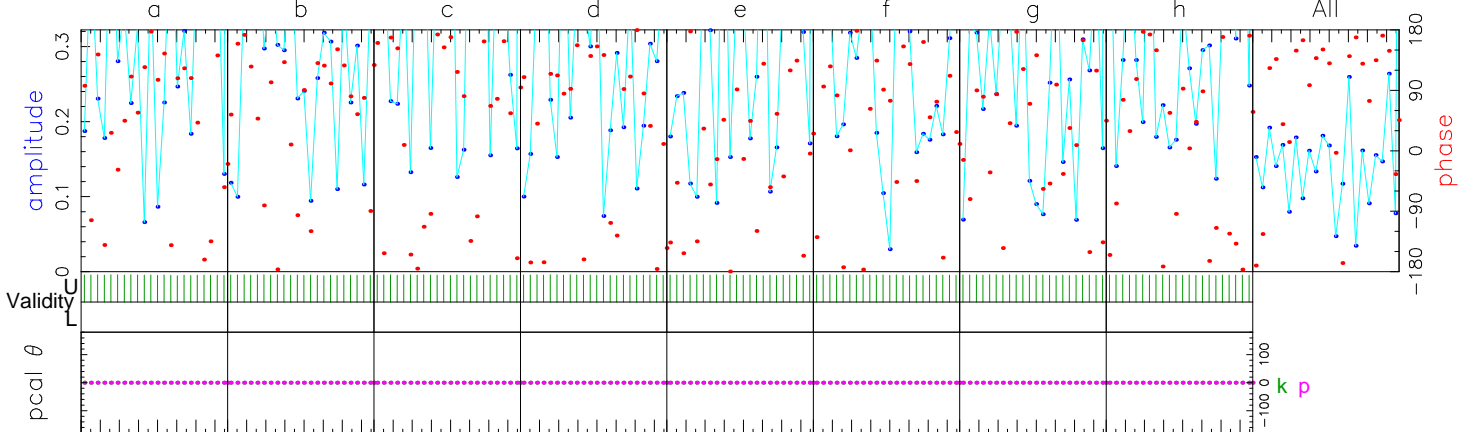
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		1.47640537555E+03			1.47640437449E+03				1.00106E-03	+/- 9.9E-05
Sband delay (usec)		1.47640549099E+03			-2.0438780E+01				1.11650E-03	+/- 7.8E-04
Phase delay (usec)		1.47640437075E+03			-1.9560001E-07				-3.73655E-06	+/- 3.4E-07
Delay rate (us/s)		5.43656990616E-02			5.43655528621E-02				1.46200E-07	+/- 1.3E-09
Total phase (deg)			178.7		-1.08827102459E-05				-115.9	+/- 10.4
	RMS	Theor.	Amplitude	0.196 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	67.2	25.0	Search (2048X32)	0.193	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	132.3	43.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	16.0	14.7	Inc. seg. avg.	0.364	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	25.6	25.7	Inc. frq. avg.	0.194	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 o: az 76.1 el 15.1 pa -55.4 u,v (fr/asec) -348.503 -939.790 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/ko..190POF Output file: /Exps/c201c/v1/1234/No0032/ko.W.98.190POF



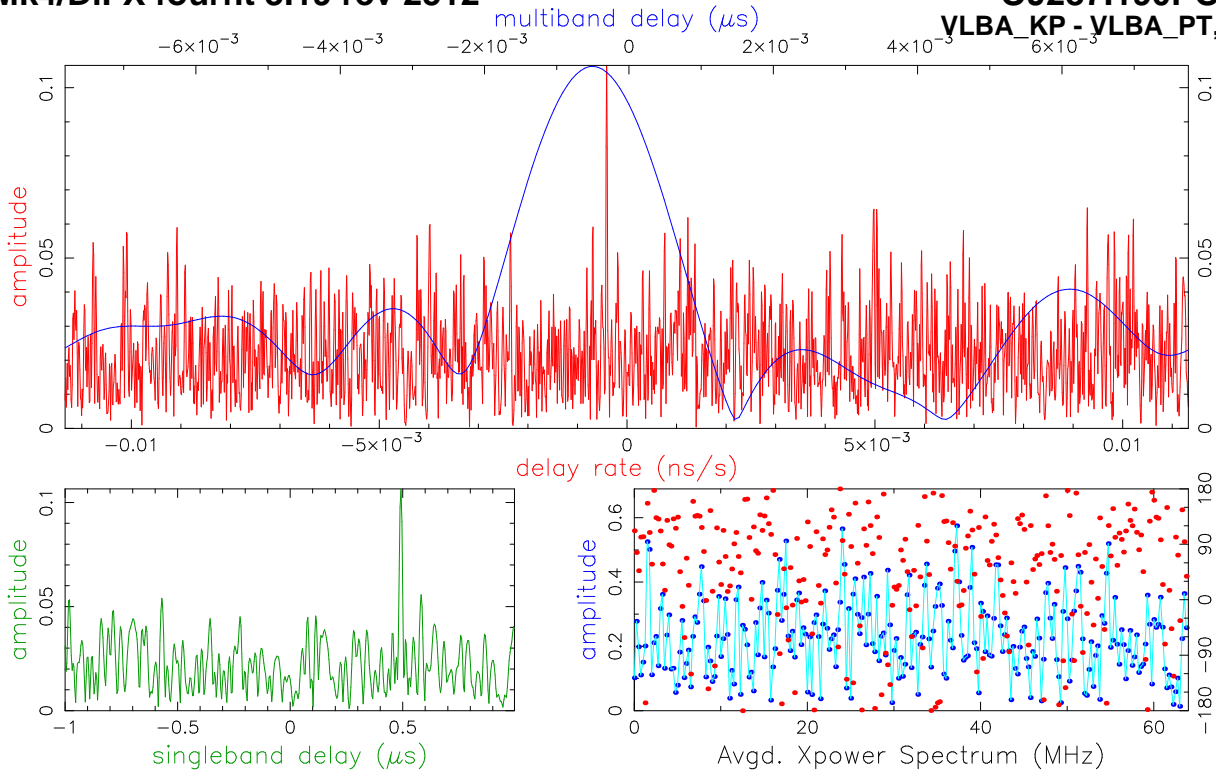
Fringe quality 0
SNR 5.6
Int time 430.627
Amp 0.107
Phase 138.3
PFD 9.9e-01
Delays (us)
SBD -0.152828
MBD 0.001753
Fringe rate (Hz)
0.439729
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210542
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



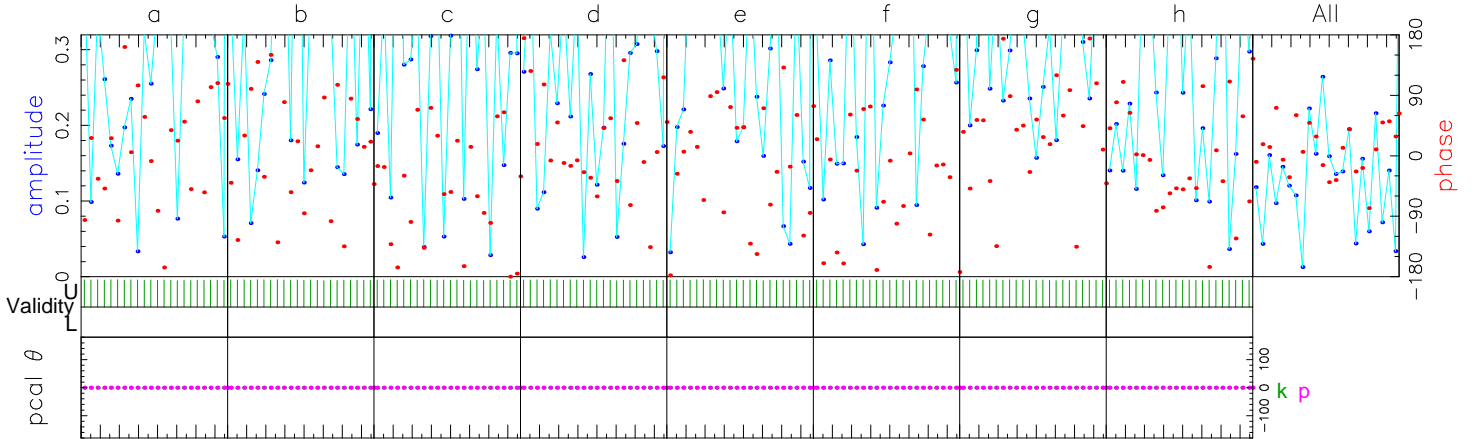
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.15523115772E+03									
Sband delay (usec)	-1.15522948844E+03									
Phase delay (usec)	-1.15507665623E+03									
Delay rate (us/s)	4.90167569250E-02									
Total phase (deg)			-60.4							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									138.3	+/- 20.5
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PCal period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 67.4 49.1 Search (2048X32) 0.096 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 76.5 85.6 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 41.5 28.9 Inc. seg. avg. 0.114 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 53.4 50.5 Inc. frq. avg. 0.111 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
k: az 77.9 el 19.2 pa -62.2 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) -290.464 -148.531 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kp..190POF Output file: /Exps/c201c/v1/1234/No0032/kp.W.110.190POF simultaneous interpolator



Fringe quality 0
SNR 6.0
Int time 430.626
Amp 0.107
Phase 9.7
PFD 3.2e-01
Delays (us)
SBD 0.491642
MBD -0.000523
Fringe rate (Hz)
-0.034965
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
2020:202:210546
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



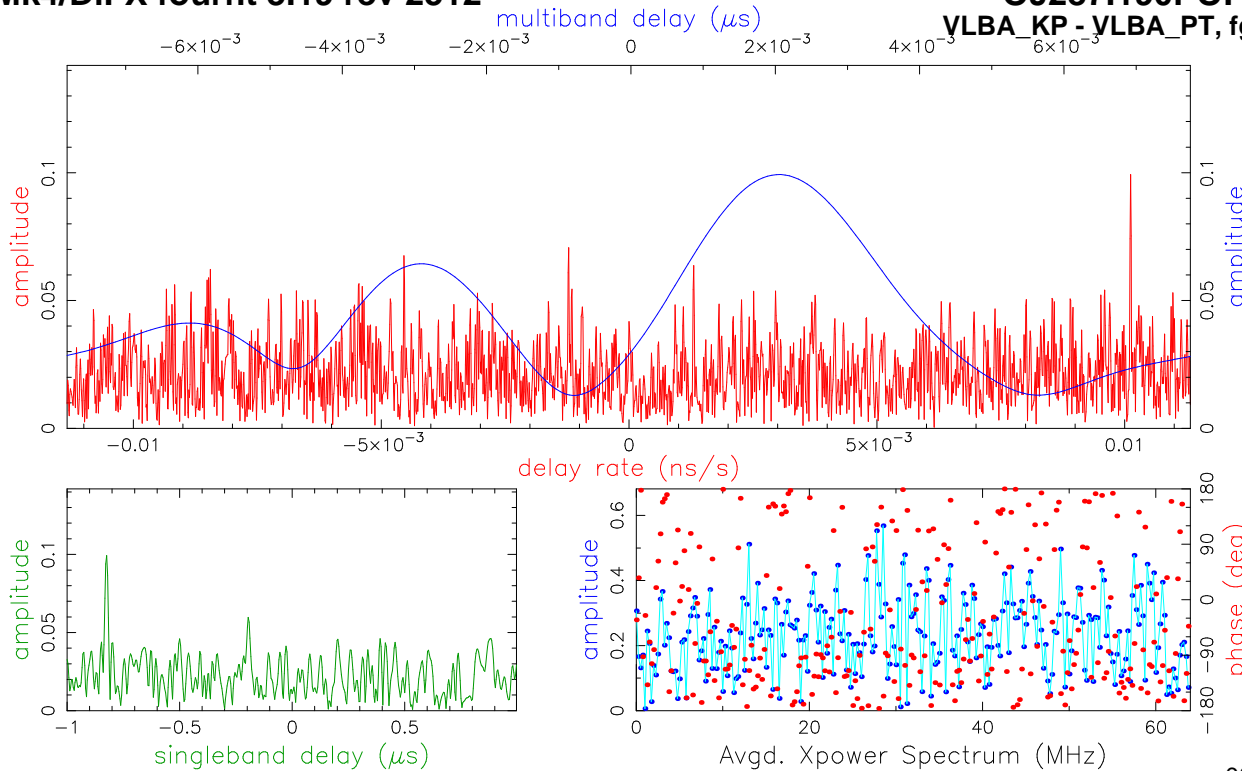
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-8.2	20.9	-8.0	17.8	16.5	-4.2	51.5	-20.0	Phase	9.7
	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	Ampl.	0.1
	56.2	389.5	445.7	402.9	435.8	420.8	250.8	508.5	Sbd box	382.9
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
kp	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.15459280880E+03		Apriori delay (usec)		-1.15507666069E+03		Resid mbdelay (usec)		-5.23109E-04	+/- 1.8E-04
Sband delay (usec)	-1.15458501894E+03		Apriori clock (usec)		-1.7630329E+01		Resid sbdelay (usec)		4.91642E-01	+/- 1.4E-03
Phase delay (usec)	-1.15507666038E+03		Apriori clockrate (us/s)		-1.9859999E-07		Resid phdelay (usec)		3.13036E-07	+/- 6.1E-07
Delay rate (us/s)	4.90112462074E-02		Apriori rate (us/s)		4.90116521110E-02		Resid rate (us/s)		-4.05904E-07	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		4.72291449984E-06		Resid phase (deg)		9.7	+/- 19.0

	RMS	Theor.	Amplitude	0.107 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	36.8	45.5	Search (2048X32)	0.102	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	64.6	79.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	24.8	26.8	Inc. seg. avg.	0.097	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	28.9	46.8	Inc. frq. avg.	0.105	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 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) -290.464 -148.531 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kp..190POF Output file: /Exps/c201c/v1/1234/No0032/kp.W.128.190POF

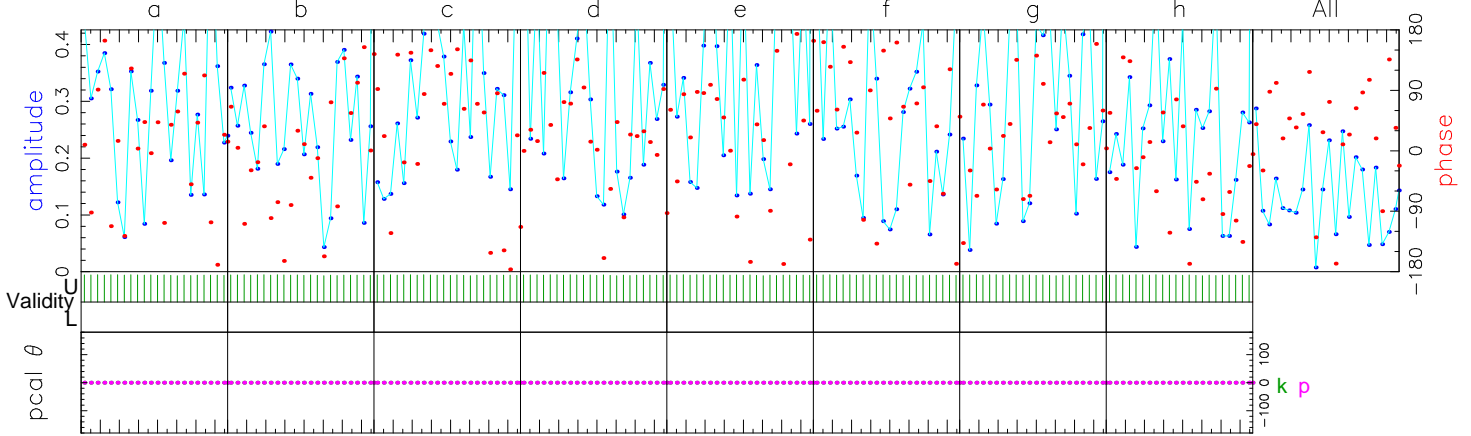
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, kp
VLBA_KP - VLBA_PT, fgroup W, pol RL



Fringe quality 0
SNR 5.7
Int time 430.628
Amp 0.142
Phase 54.1
PFD 9.8e-01
Delays (us)
SBD -0.825022
MBD 0.002060
Fringe rate (Hz)
0.873418
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
2020:202:210551
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		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
kp	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		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

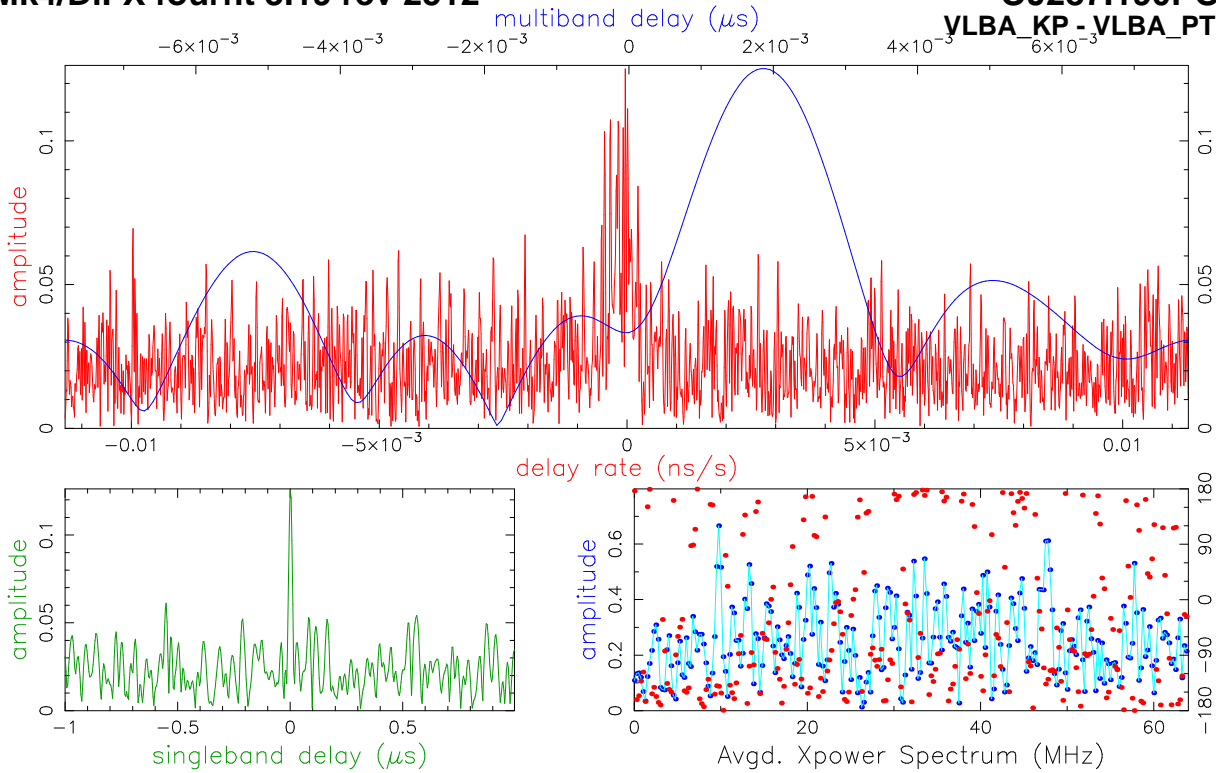
Group delay (usec)(sbd)	-1.15590272556E+03	Apriori delay (usec)	-1.15507666069E+03	Resid mbdelay (usec)	2.06013E-03	+/-	1.9E-04
Sband delay (usec)	-1.15590168244E+03	Apriori clock (usec)	-1.7630329E+01	Resid sbdelay (usec)	-8.25022E-01	+/-	1.5E-03
Phase delay (usec)	-1.15507665895E+03	Apriori clockrate (us/s)	-1.9859999E-07	Resid phdelay (usec)	1.74551E-06	+/-	6.5E-07
Delay rate (us/s)	4.90217916308E-02	Apriori rate (us/s)	4.90116521110E-02	Resid rate (us/s)	1.01395E-05	+/-	2.6E-09
Total phase (deg)	-144.6	Apriori accel (us/s/s)	4.72291449984E-06	Resid phase (deg)	54.1	+/-	20.3

ph/seg (deg)	68.6	Theor.	48.6	Amplitude	0.142 +/- 0.025	PCal mode: MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	82.3		84.8	Search (2048X32)	0.097	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	51.1		28.7	Inc. seg. avg.	0.143	Bits/sample: 2x2	mb window (us)	-0.008 0.008
amp/frq (%)	60.6		50.0	Inc. frq. avg.	0.163	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011 0.011
						Data rate(Mb/s): 2048	ion window (TEC)	0.00 0.00

k: az 77.9 el 19.2 pa -62.2 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) -290.464 -148.531 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kp..190POF Output file: /Exps/c201c/v1/1234/No0032/kp.W.147.190POF

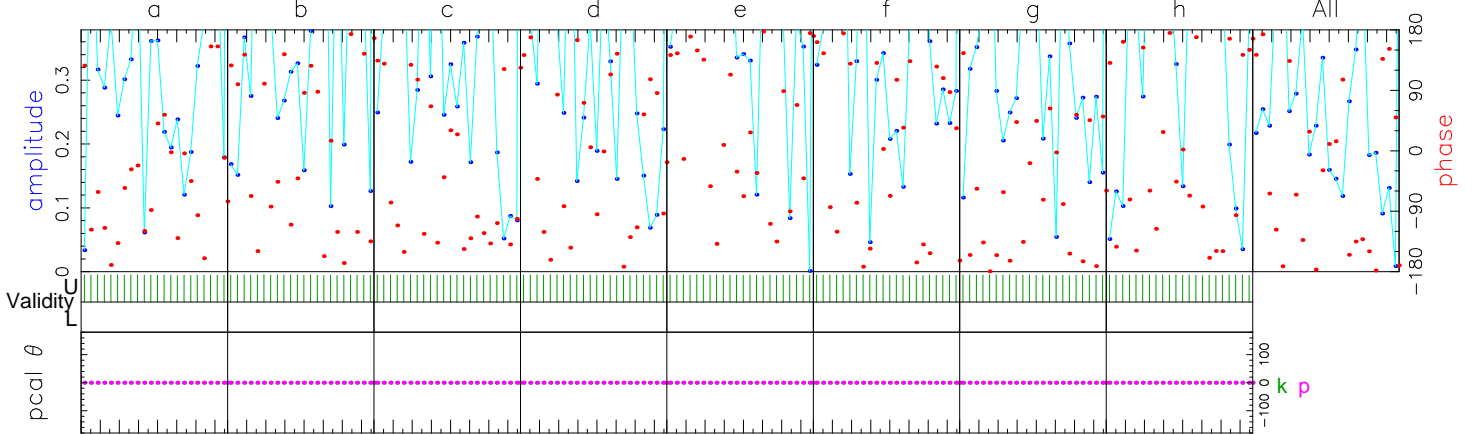
Mk4/DiFX fourfit 3.19 rev 2512

OJ287.190POF, No0032, kp
VLBA_KP - VLBA_PT, fgroup W, pol LL



Fringe quality 0
SNR 7.2
Int time 430.626
Amp 0.126
Phase -146.9
PFD 2.4e-04
Delays (us)
SBD 0.001258
MBD 0.001905
Fringe rate (Hz)
-0.002763
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
2020:202:210538
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

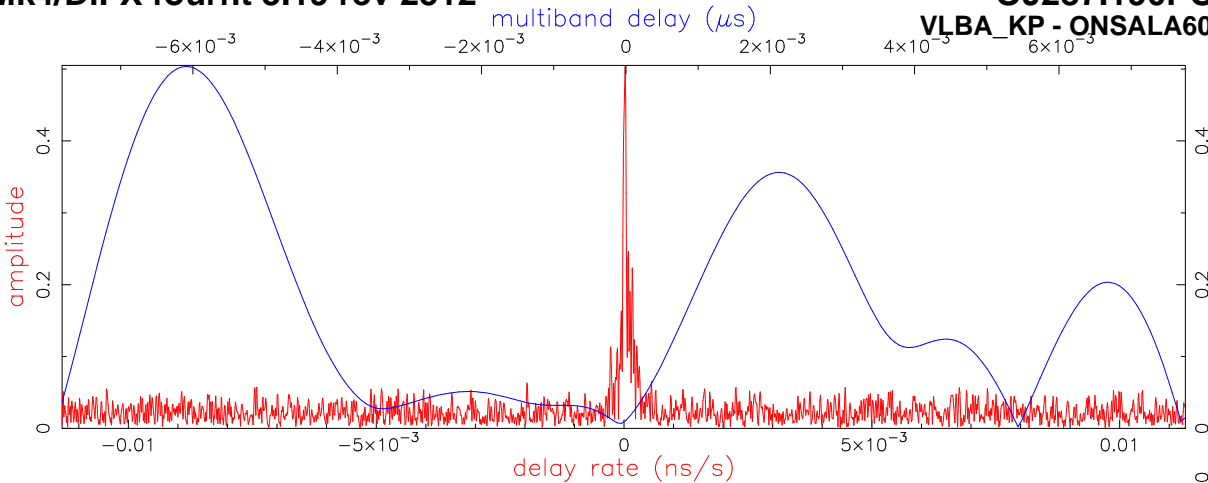


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	-1.15507475540E+03	Apriori delay (usec)	-1.15507666069E+03	Resid mbdelay (usec)	1.90530E-03	+/-	1.5E-04
Sband delay (usec)	-1.15507540294E+03	Apriori clock (usec)	-1.7630329E+01	Resid sbdelay (usec)	1.25775E-03	+/-	1.2E-03
Phase delay (usec)	-1.15507666543E+03	Apriori clockrate (us/s)	-1.9859999E-07	Resid phdelay (usec)	-4.73766E-06	+/-	5.2E-07
Delay rate (us/s)	4.90116200346E-02	Apriori rate (us/s)	4.90116521110E-02	Resid rate (us/s)	-3.20764E-08	+/-	2.0E-09
Total phase (deg)	-345.6	Apriori accel (us/s/s)	4.72291449984E-06	Resid phase (deg)	-146.9	+/-	16.0

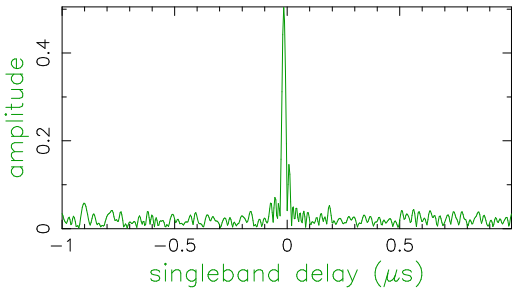
ph/seg (deg)	88.7	RMS	38.3	Theor.	0.126 +/- 0.018	PCal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	147.8	Search (2048X32)	0.125	Amplitude	0.126 +/- 0.018	PCal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	34.5	Interp.	0.000	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	40.8	Inc. seg. avg.	0.207	Inc. seg. avg.	0.207	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	0.130	Inc. frq. avg.	0.130	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

k: az 77.9 el 19.2 pa -62.2 p: az 80.5 el 22.5 pa -60.3 u,v (fr/asec) -290.464 -148.531 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kp..190POF Output file: /Exps/c201c/v1/1234/No0032/kp.W.95.190POF

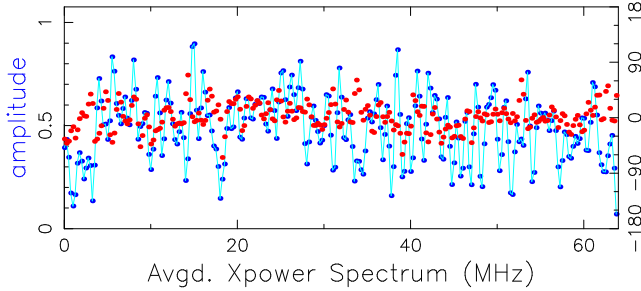


Fringe quality 4

SNR 28.7
Int time 431.373
Amp 0.505
Phase -100.0
PFD 0.0e+00
Delays (us)
SBD -0.014910
MBD -0.006071
Fringe rate (Hz)
0.002060
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

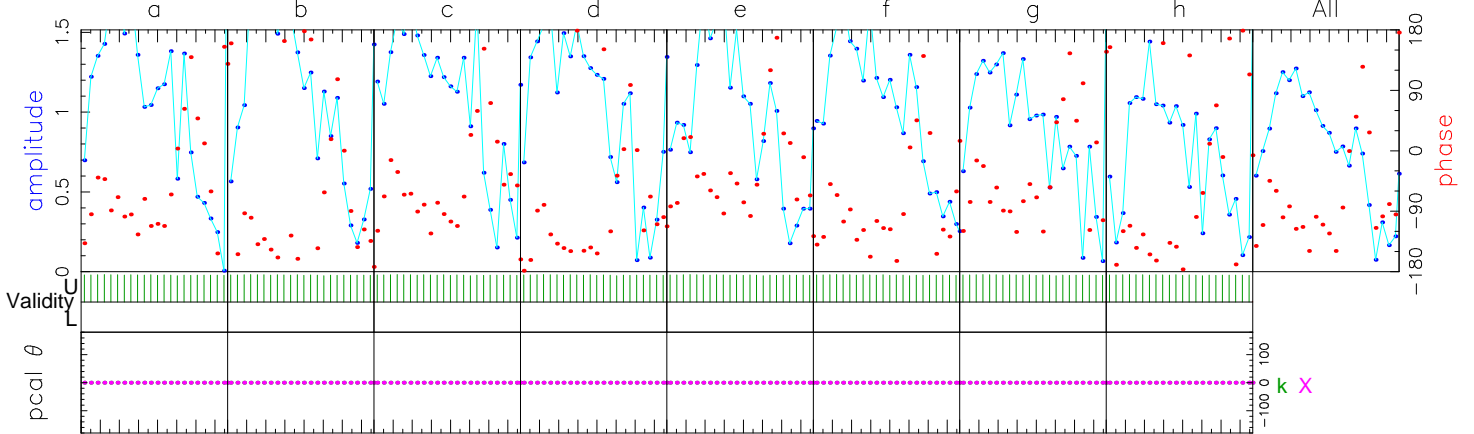


delay rate (ns/s)



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



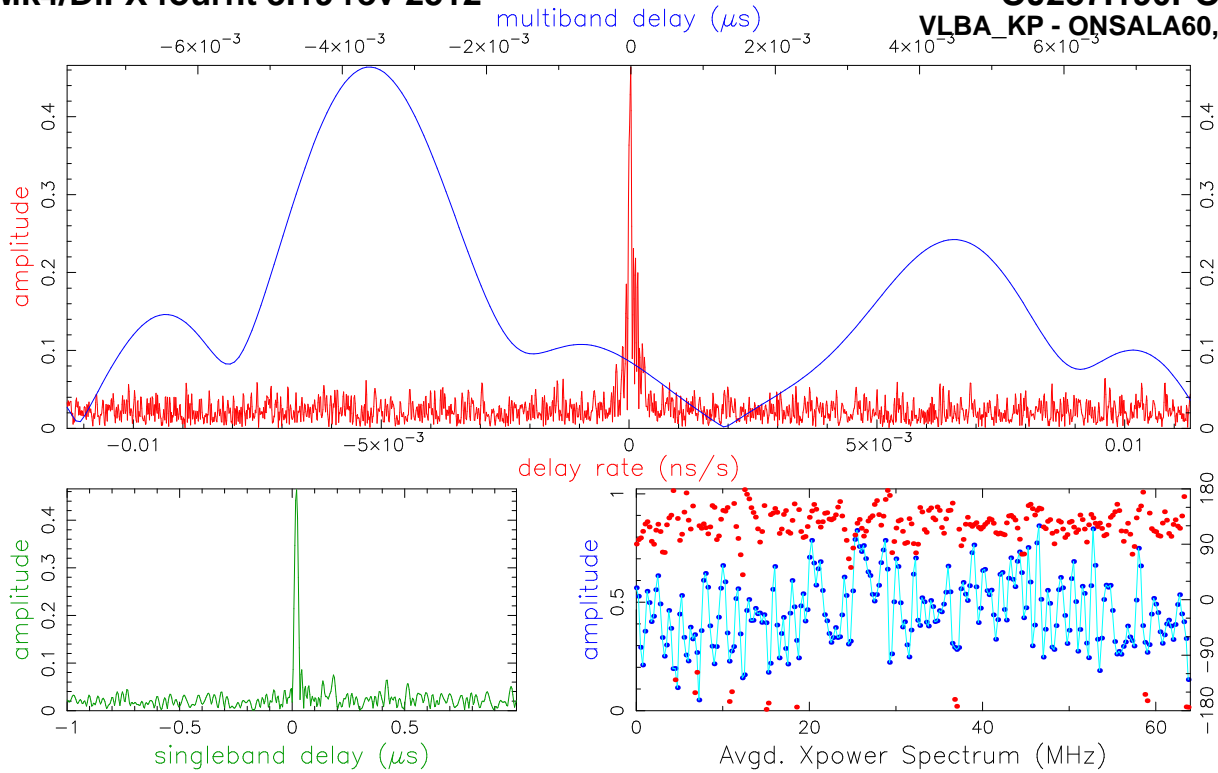
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-82.2	-145.0	-68.0	-138.5	-51.9	-107.3	-66.1	-152.1	Phase	-100.0
	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.4	Ampl.	0.6
	252.8	252.5	253.2	252.5	252.4	252.8	252.7	251.4	Sbd box	253.2
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-6.40394781527E+03	Apriori delay (usec)	-6.40392611908E+03	Resid mbdelay (usec)	-6.07120E-03	+/-	3.8E-05
Sband delay (usec)	-6.40394102858E+03	Apriori clock (usec)	-4.1130596E+01	Resid sbdelay (usec)	-1.49095E-02	+/-	3.0E-04
Phase delay (usec)	-6.40392612230E+03	Apriori clockrate (us/s)	-5.2260003E-07	Resid phdelay (usec)	-3.22616E-06	+/-	1.3E-07
Delay rate (us/s)	1.77235925760E+00	Apriori rate (us/s)	1.77235923369E+00	Resid rate (us/s)	2.39089E-08	+/-	5.1E-10
Total phase (deg)	-63.1	Apriori accel (us/s/s)	2.17275451095E-05	Resid phase (deg)	-100.0	+/-	4.0

ph/seg (deg)	60.4	RMS	Theor.	Amplitude	0.505 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	87.9	60.4	9.6	Search (2048X32)	0.492	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	SampCntNorm:	enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	43.0	87.9	16.7	Interp.	0.000	Bits/sample:	2x2	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	30.1	43.0	5.6	Inc. seg. avg.	0.770	Data rate (Mb/s):	2048	nlags:	256	ion window (TEC)	0.00	0.00
		30.1	9.9	Inc. frq. avg.	0.620							

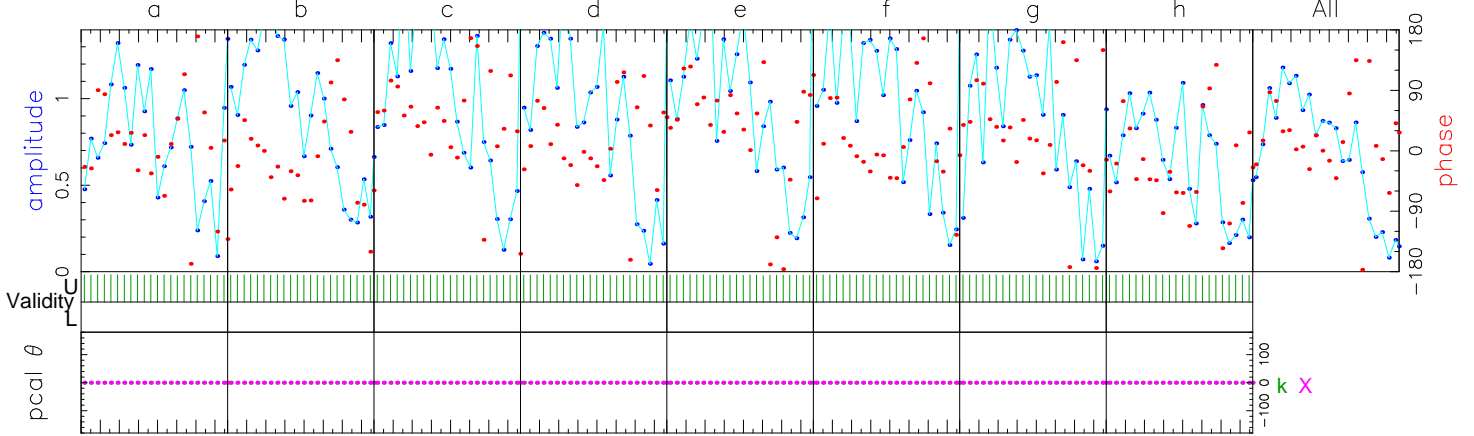
k: az 77.9 el 19.2 pa -62.2 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10762.825 -1926.181 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kX...190POF Output file: /Exps/c201c/v1/1234/No0032/kX.W.104.190POF



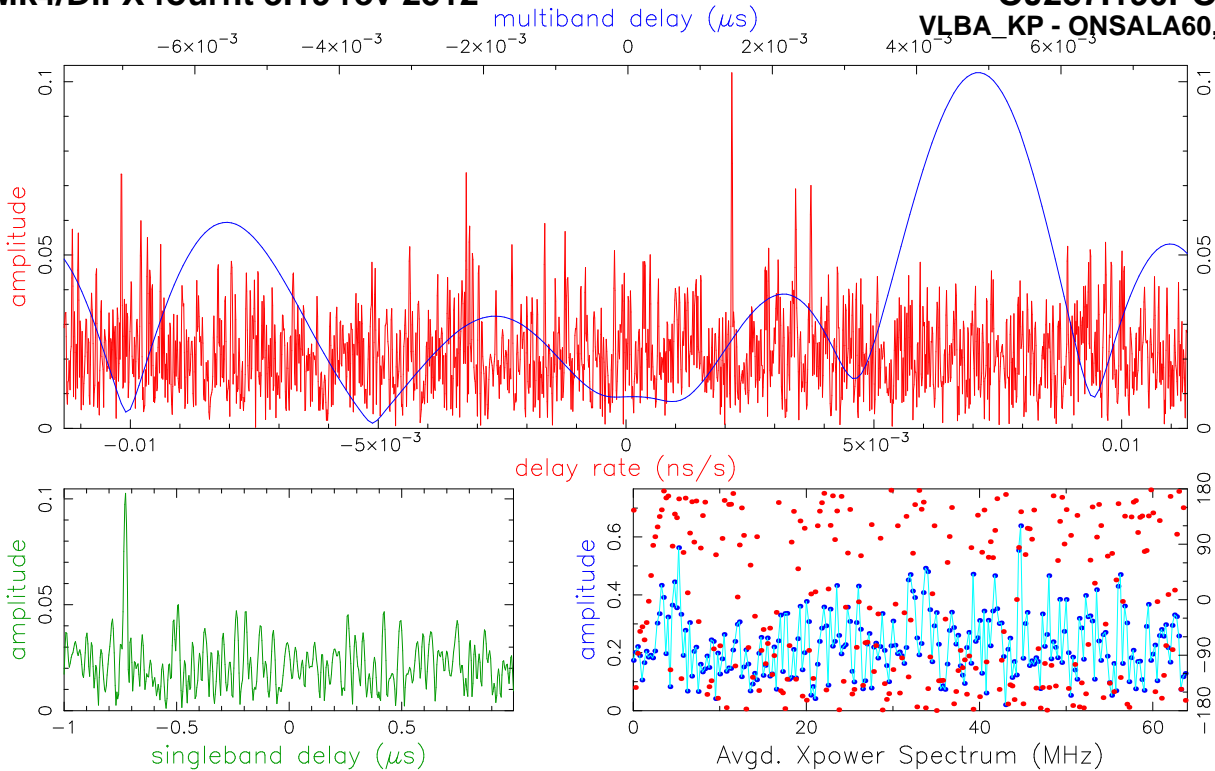
Fringe quality 6
SNR 26.5
Int time 431.374
Amp 0.466
Phase 22.5
PFD 0.0e+00
Delays (us)
SBD 0.018649
MBD -0.003646
Fringe rate (Hz) 0.002495
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
2020:202:210544
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



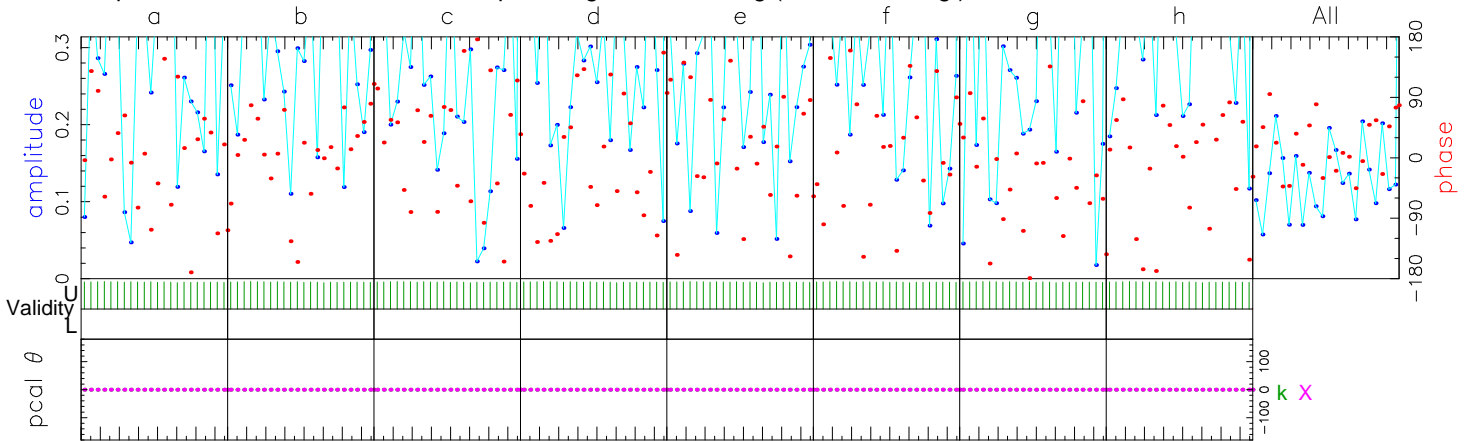
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	16.9	-17.6	57.3	9.4	68.6	4.2	38.4	-26.4	Phase	22.5
	0.5	0.6	0.7	0.5	0.6	0.6	0.6	0.3	Ampl.	0.5
	262.0	261.6	261.7	261.1	261.0	261.9	261.0	260.4	Sbd box	261.8
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.40391413997E+03		Apriori delay (usec)		-6.40392611908E+03		Resid mbdelay (usec)		-3.64589E-03	+/- 4.1E-05
Sband delay (usec)	-6.40390747033E+03		Apriori clock (usec)		-4.1130596E+01		Resid sbdelay (usec)		1.86487E-02	+/- 3.3E-04
Phase delay (usec)	-6.40392611835E+03		Apriori clockrate (us/s)		-5.2260003E-07		Resid phdelay (usec)		7.24072E-07	+/- 1.4E-07
Delay rate (us/s)	1.77235926265E+00		Apriori rate (us/s)		1.77235923369E+00		Resid rate (us/s)		2.89602E-08	+/- 5.5E-10
Total phase (deg)			Apriori accel (us/s/s)		2.17275451095E-05		Resid phase (deg)		22.5	+/- 4.3

ph/seg (deg) 60.8 10.4 Search (2048X32) 0.449 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 87.6 18.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 36.8 6.1 Inc. seg. avg. 0.701 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 26.9 10.7 Inc. frq. avg. 0.539 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_coherence infinite dr window (ns/s) -0.011 0.011
 k: az 77.9 el 19.2 pa -62.2 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10762.825 -1926.181 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kX...190POF Output file: /Exps/c201c/v1/1234/No0032/kX.W.119.190POF



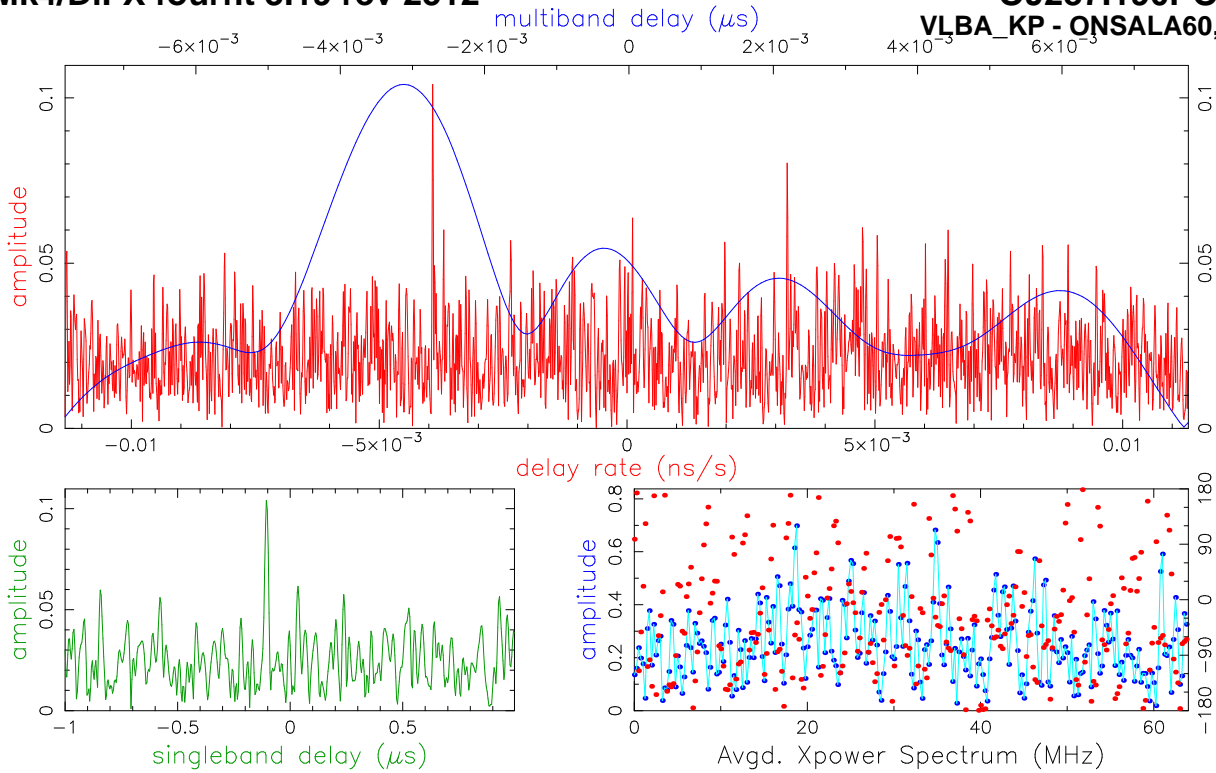
Fringe quality 0
 SNR 5.9
 Int time 431.373
 Amp 0.105
 Phase 15.1
 PFD 6.9e-01
 Delays (us)
 SBD -0.727484
 MBD 0.004826
 Fringe rate (Hz)
 0.184746
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204500.00
 Stop 205219.80
 FRT 204840.00
 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



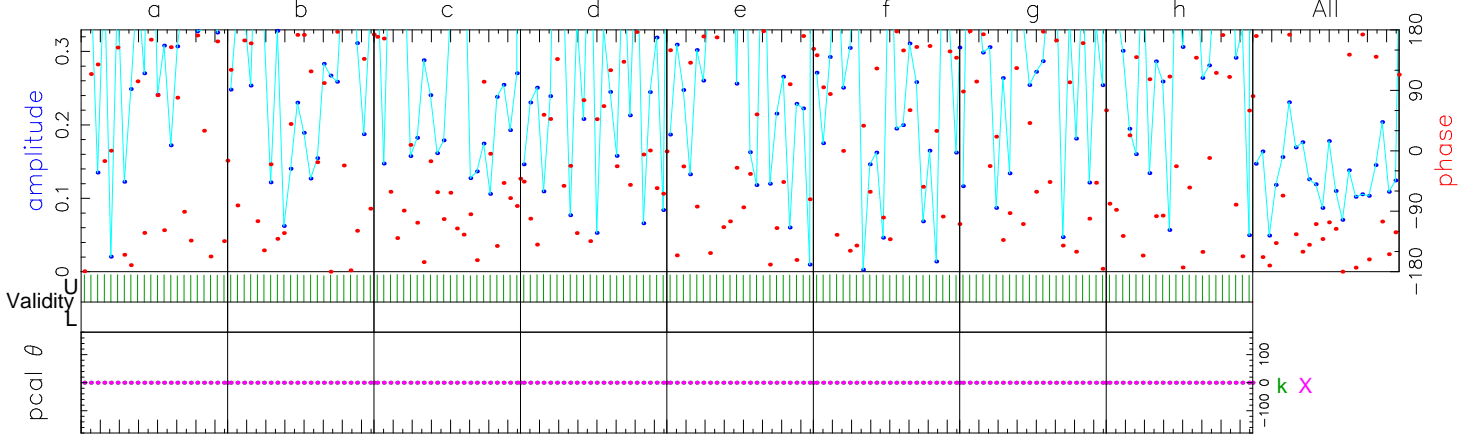
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
4.5	17.1	48.2	-41.5	48.5	15.0	-19.8	34.2	34.2	Phase	15.1
0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	Ampl.	0.1
103.3	70.7	25.8	16.7	408.1	165.4	358.1	212.7	212.7	Sbd box	70.8
U/L 859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0	APs used	
k 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:X 0:0	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	1000	PC amp	
X 1000	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-6.40465566836E+03		Apriori delay (usec)		-6.40392611908E+03		Resid mbdelay (usec)		4.82572E-03	+/- 1.9E-04
Sband delay (usec)	-6.40465360258E+03		Apriori clock (usec)		-4.1130596E+01		Resid sbdelay (usec)		-7.27484E-01	+/- 1.5E-03
Phase delay (usec)	-6.40392611859E+03		Apriori clockrate (us/s)		-5.2260003E-07		Resid phdelay (usec)		4.86556E-07	+/- 6.3E-07
Delay rate (us/s)	1.77236137841E+00		Apriori rate (us/s)		1.77235923369E+00		Resid rate (us/s)		2.14472E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		2.17275451095E-05		Resid phase (deg)		15.1	+/- 19.6

ph/seg (deg) 41.0 46.9 Search (2048X32) 0.099 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 54.4 81.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 34.4 27.7 Inc. seg. avg. 0.099 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.0 48.3 Inc. frq. avg. 0.106 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 77.9 el 19.2 pa -62.2 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10762.825 -1926.181 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kX..190POF Output file: /Exps/c201c/v1/1234/No0032/kX.W.139.190POF



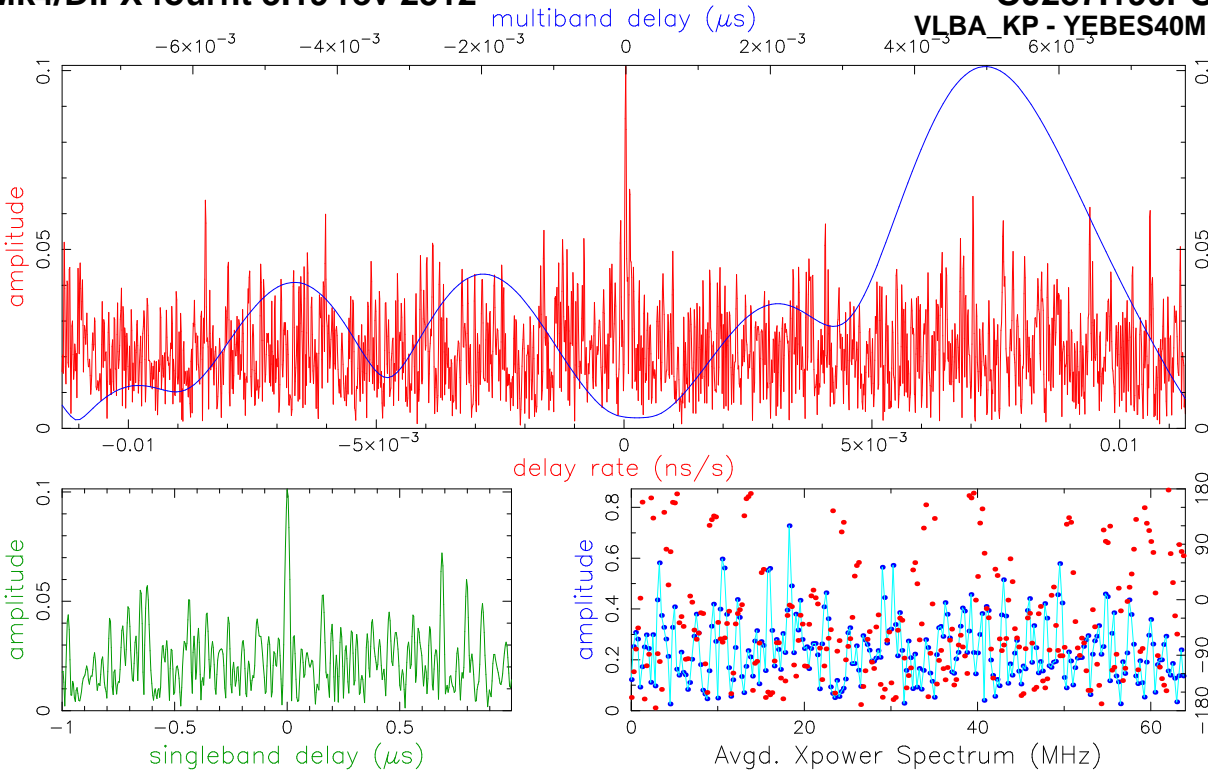
Fringe quality 0
SNR 5.9
Int time 431.374
Amp 0.110
Phase -148.6
PFD 5.3e-01
Delays (us)
SBD -0.104599
MBD -0.003124
Fringe rate (Hz)
-0.337699
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204500.00
Stop 205219.80
FRT 204840.00
Corr/FF/build
2020:202:063214
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



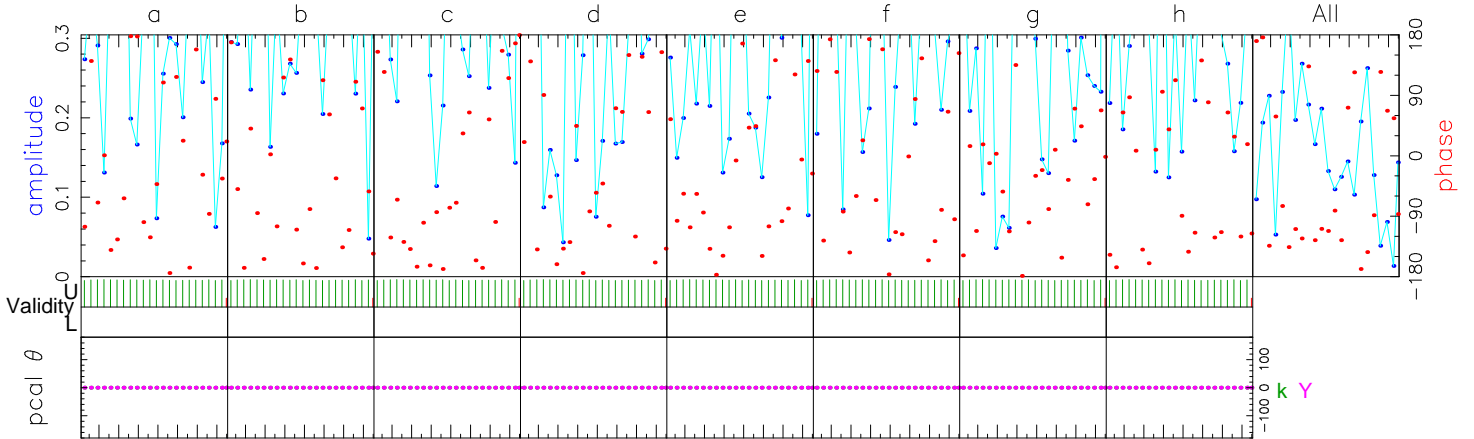
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
k:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-6.40402299271E+03									
Sband delay (usec)	-6.40403071858E+03									
Phase delay (usec)	-6.40392612387E+03									
Delay rate (us/s)	1.77235531334E+00									
Total phase (deg)			-111.6							
Apriori delay (usec)					-6.40392611908E+03					
Apriori clock (usec)					-4.1130596E+01					
Apriori clockrate (us/s)					-5.2260003E-07					
Apriori rate (us/s)					1.77235923369E+00					
Apriori accel (us/s/s)					2.17275451095E-05					
Resid mbdelay (usec)									-3.12363E-03	+/- 1.8E-04
Resid sbdelay (usec)									-1.04599E-01	+/- 1.5E-03
Resid phdelay (usec)									-4.79122E-06	+/- 6.2E-07
Resid rate (us/s)									-3.92035E-06	+/- 2.5E-09
Resid phase (deg)									-148.6	+/- 19.3

ph/seg (deg) 38.0 46.3 Search (2048X32) 0.102 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 49.7 80.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 30.5 27.3 Inc. seg. avg. 0.106 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 50.1 47.6 Inc. frq. avg. 0.112 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 77.9 el 19.2 pa -62.2 X: az 239.7 el 40.6 pa 29.7 u,v (fr/asec) -10762.825 -1926.181 simultaneous interpolator



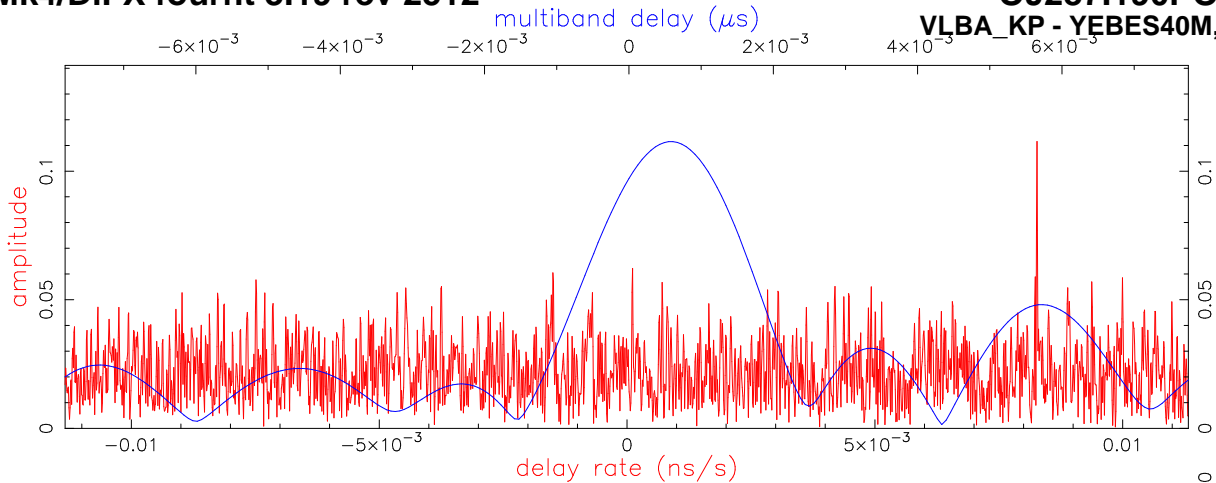
Fringe quality 0
SNR 5.7
Int time 425.824
Amp 0.101
Phase -136.9
PFD 9.2e-01
Delays (us)
SBD 0.000956
MBD 0.005006
Fringe rate (Hz) 0.003312
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201c
Exper # 16383
Yr:day 2020:117
Start 204505.12
Stop 205219.80
FRT 204840.00
Corr/FF/build 2020:202:063214
2020:202:210542
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



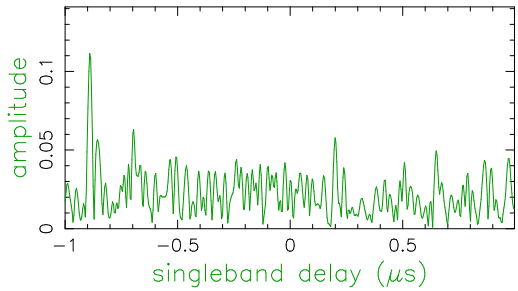
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-125.9	-139.9	-145.0	-150.9	-105.4	-140.9	-45.3	166.4	Phase	-136.9
	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	226.2	76.2	257.0	403.2	266.1	406.1	286.6	466.5	Sbd box	257.2
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.05199665520E+04		Apriori delay (usec)		-1.05199715578E+04		Resid mbdelay (usec)		5.00582E-03	+/- 1.9E-04
Sband delay (usec)	-1.05199706015E+04		Apriori clock (usec)		-1.2319255E+01		Resid sbdelay (usec)		9.56250E-04	+/- 1.5E-03
Phase delay (usec)	-1.05199715622E+04		Apriori clockrate (us/s)		-2.1460000E-07		Resid phdelay (usec)		-4.41324E-06	+/- 6.5E-07
Delay rate (us/s)	1.77318806504E+00		Apriori rate (us/s)		1.77318802659E+00		Resid rate (us/s)		3.84527E-08	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		5.12211184434E-05		Resid phase (deg)		-136.9	+/- 20.0

ph/seg (deg) 81.6 48.0 Search (2048X32) 0.098 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 100.9 83.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 46.6 28.3 Inc. seg. avg. 0.120 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 45.6 49.4 Inc. frq. avg. 0.104 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
k: az 77.9 el 19.2 pa -62.2 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10721.319 524.100 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kY..190POF Output file: /Exps/c201c/v1/1234/No0032/kY.W.112.190POF

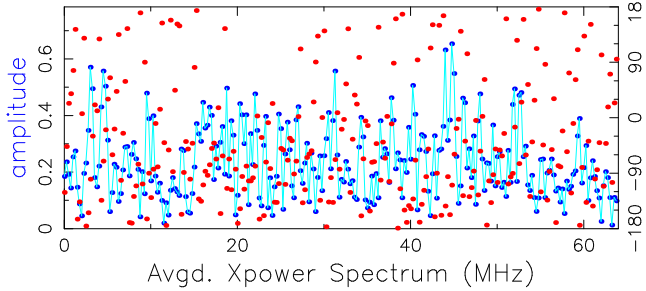


Fringe quality 0

SNR 6.3
 Int time 425.823
 Amp 0.141
 Phase 88.8
 PFD 6.6e-02
 Delays (us)
 SBD -0.889529
 MBD 0.000601
 Fringe rate (Hz)
 0.713585
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

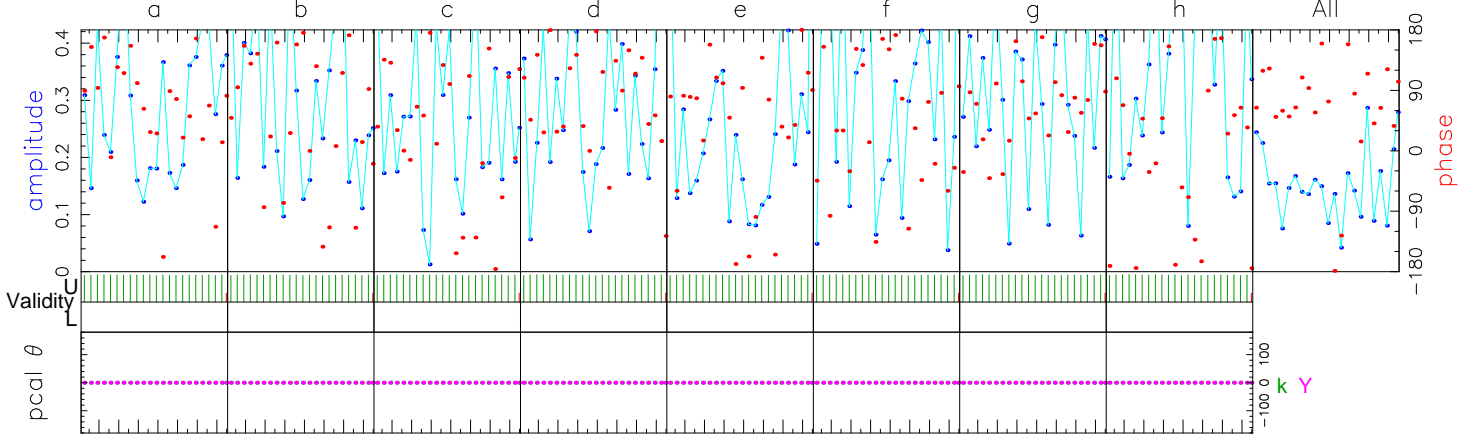


delay rate (ns/s)



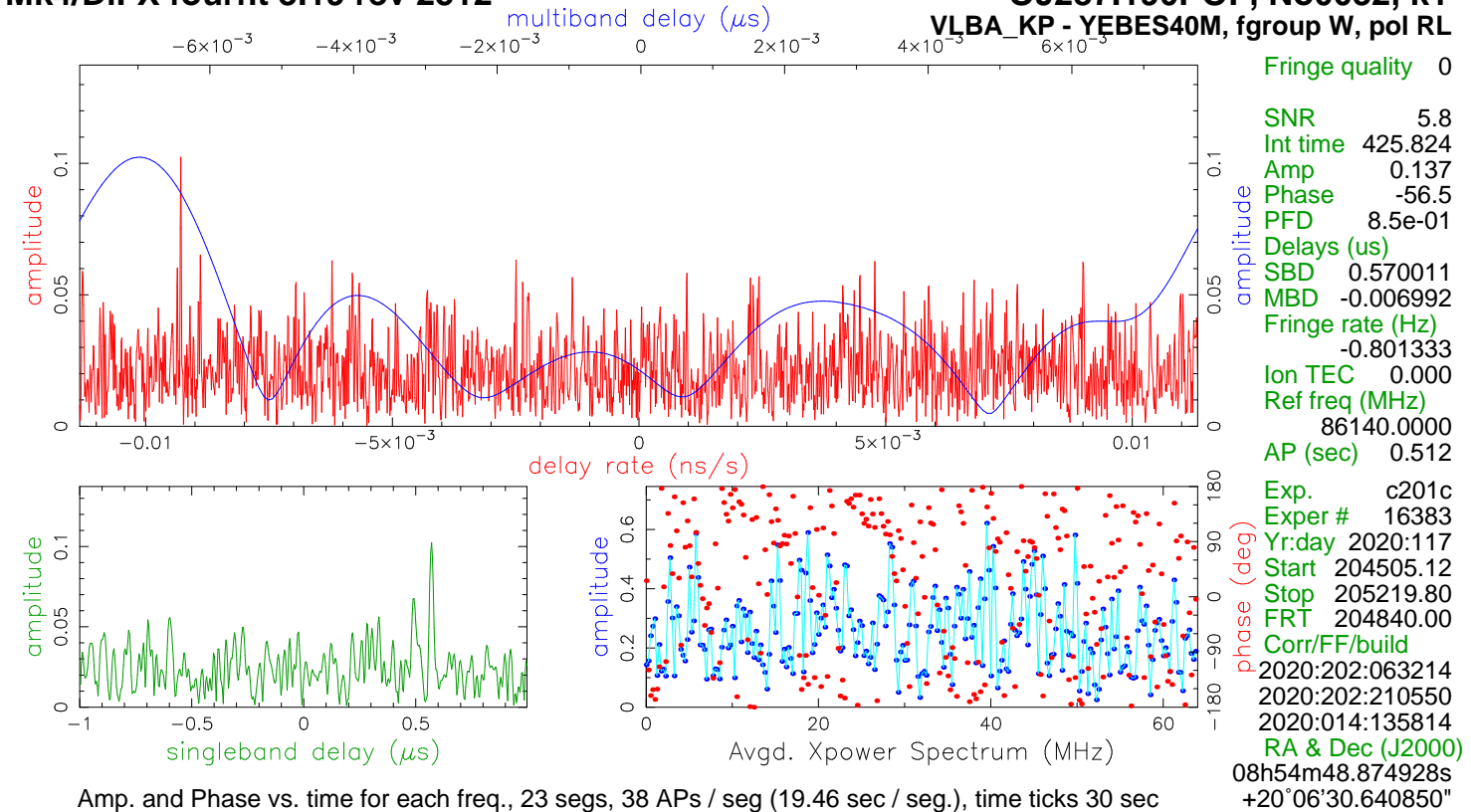
Exp. c201c
 Exper # 16383
 Yr:day 2020:117
 Start 204505.12
 Stop 205219.80
 FRT 204840.00
 Corr/FF/build
 2020:202:063214
 2020:202:210546
 2020:014:135814
 RA & Dec (J2000)
 08h54m48.874928s
 +20°06'30.640850"

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

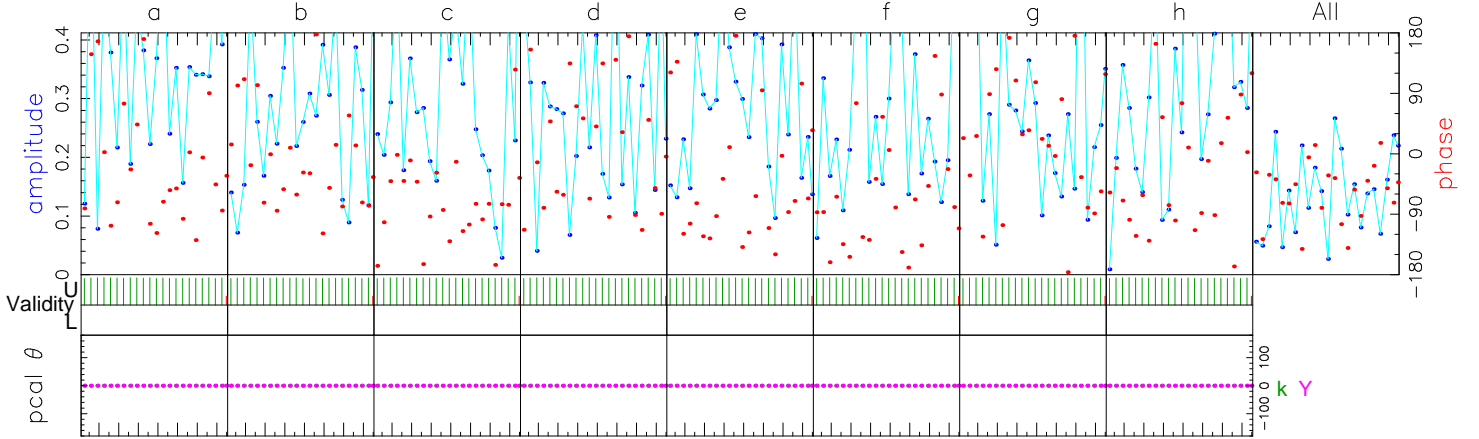


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.05208615820E+04								6.00796E-04	+/- 1.7E-04
Sband delay (usec)	-1.05208610865E+04								-8.89529E-01	+/- 1.4E-03
Phase delay (usec)	-1.05199715549E+04								2.86273E-06	+/- 5.8E-07
Delay rate (us/s)	1.77319631060E+00								8.28402E-06	+/- 2.3E-09
Total phase (deg)			-267.0						88.8	+/- 18.1
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00
PC period (AP's) 5, 5										
SampCntNorm: enabled										

ph/seg (deg) 52.3 43.4 Search (2048X32) 0.107 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 62.9 75.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 19.3 25.6 Inc. seg. avg. 0.148 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 36.2 44.7 Inc. frq. avg. 0.131 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 77.9 el 19.2 pa -62.2 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10721.319 524.100 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kY..190POF Output file: /Exps/c201c/v1/1234/No0032/kY.W.126.190POF



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



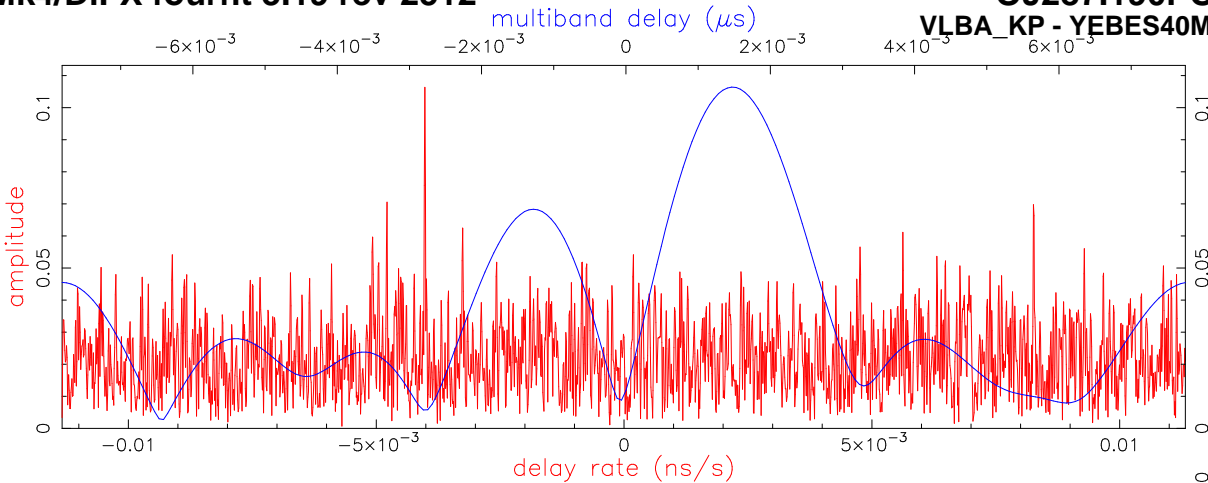
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-53.5	-27.0	-72.0	-64.4	-84.3	-95.3	3.9	-40.2	Phase	-56.5
	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.1	Ampl.	0.1
	12.0	402.2	433.5	342.8	401.6	447.8	410.9	84.8	Sbd box	402.9
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.05194004253E+04	Apriori delay (usec)	-1.05199715578E+04	Resid mbdelay (usec)	-6.99246E-03	+/-	1.9E-04
Sband delay (usec)	-1.05194015470E+04	Apriori clock (usec)	-1.2319255E+01	Resid sbdelay (usec)	5.70011E-01	+/-	1.5E-03
Phase delay (usec)	-1.05199715596E+04	Apriori clockrate (us/s)	-2.1460000E-07	Resid phdelay (usec)	-1.82132E-06	+/-	6.4E-07
Delay rate (us/s)	1.77317872390E+00	Apriori rate (us/s)	1.77318802659E+00	Resid rate (us/s)	-9.30268E-06	+/-	2.5E-09
Total phase (deg)		Apriori accel (us/s/s)	5.12211184434E-05	Resid phase (deg)	-56.5	+/-	19.8

ph/seg (deg)	43.3	Theor.	47.6	Amplitude	0.137 +/- 0.024	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	75.2		83.0	Search (2048X32)	0.099	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	35.1		28.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	48.9		49.0	Inc. seg. avg.	0.135	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.143	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

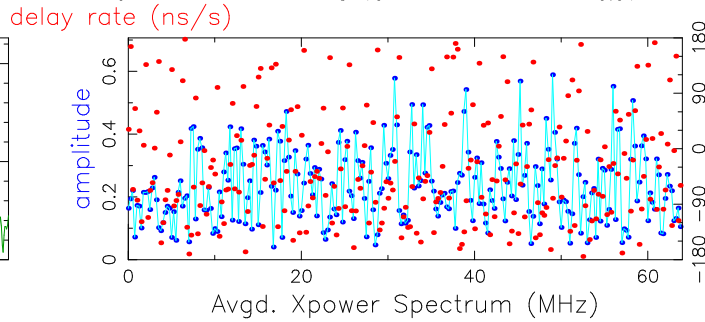
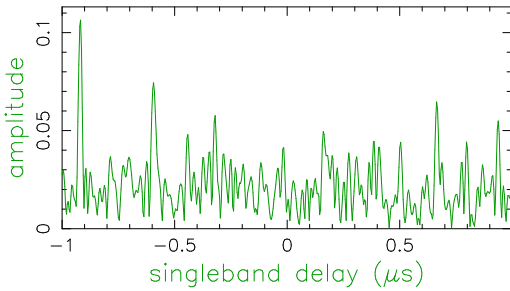
k: az 77.9 el 19.2 pa -62.2 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10721.319 524.100 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kY..190POF Output file: /Exps/c201c/v1/1234/No0032/kY.W.144.190POF



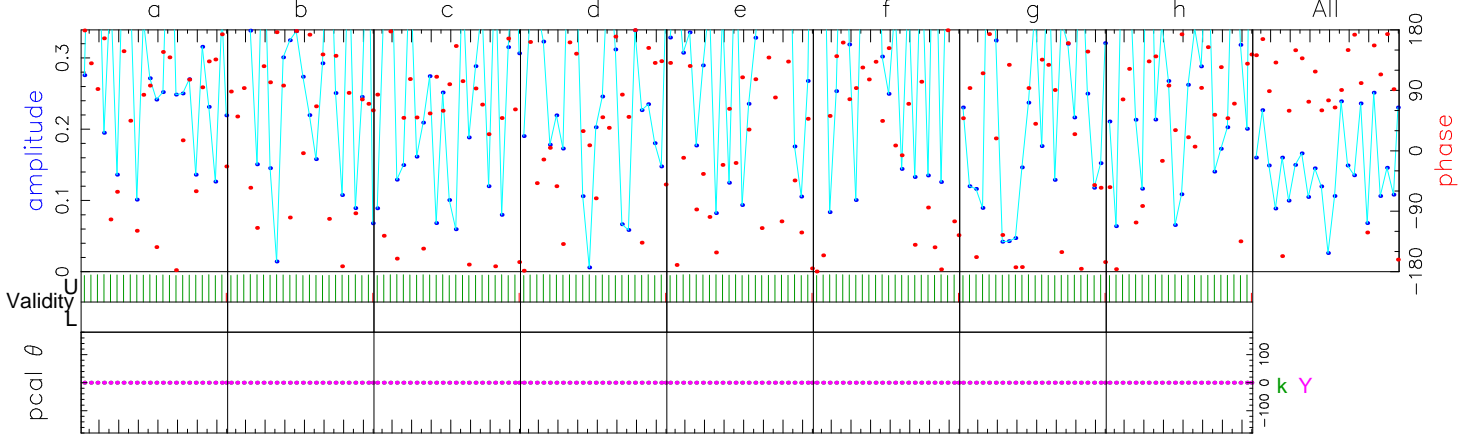
Fringe quality 0

SNR 6.1
Int time 425.823
Amp 0.113
Phase 129.4
PFD 3.0e-01
Delays (us)
SBD -0.919262
MBD 0.001448
Fringe rate (Hz)
-0.346525
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
2020:202:210538
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

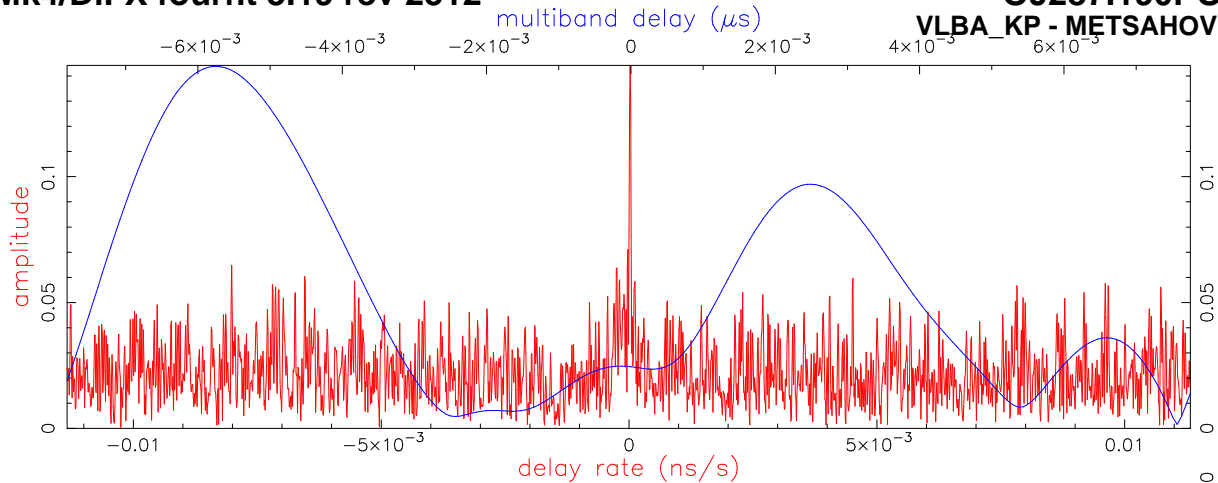


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	131.7	104.9	119.4	155.8	151.2	152.1	141.1	101.8	Phase	129.4
	0.2	0.1	0.1	0.1	0.0	0.2	0.1	0.1	Ampl.	0.1
	20.3	48.3	500.8	459.8	150.9	21.6	353.6	91.3	Sbd box	21.7
U/L	849/0	849/0	849/0	849/0	849/0	849/0	849/0	849/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.05208919852E+04	Apriori delay (usec)	-1.05199715578E+04	Resid mbdelay (usec)	1.44755E-03	+/-	1.8E-04
Sband delay (usec)	-1.05208908198E+04	Apriori clock (usec)	-1.2319255E+01	Resid sbdelay (usec)	-9.19262E-01	+/-	1.4E-03
Phase delay (usec)	-1.05199715536E+04	Apriori clockrate (us/s)	-2.1460000E-07	Resid phdelay (usec)	4.17122E-06	+/-	6.1E-07
Delay rate (us/s)	1.77318400378E+00	Apriori rate (us/s)	1.77318802659E+00	Resid rate (us/s)	-4.02281E-06	+/-	2.4E-09
Total phase (deg)	-226.4	Apriori accel (us/s/s)	5.12211184434E-05	Resid phase (deg)	129.4	+/-	18.9

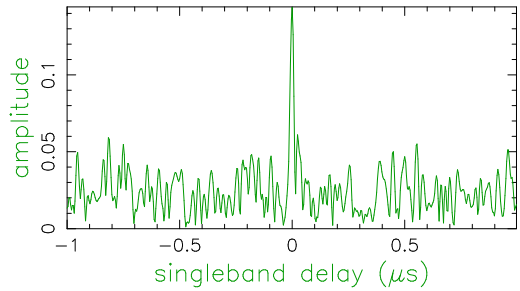
ph/seg (deg)	48.2	Theor.	45.3	Amplitude	0.113 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	62.3		45.3	Search (2048X32)	0.100	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	23.4		26.7	Interp.	0.000	Bits/sample: 2x2	mb window (us) -0.008 0.008
amp/frq (%)	47.5		46.7	Inc. seg. avg.	0.116	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	0.107	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

k: az 77.9 el 19.2 pa -62.2 Y: az 239.3 el 57.8 pa 43.9 u,v (fr/asec) -10721.319 524.100 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201c/v1/1234/No0032/kY..190POF Output file: /Exps/c201c/v1/1234/No0032/kY.W.94.190POF

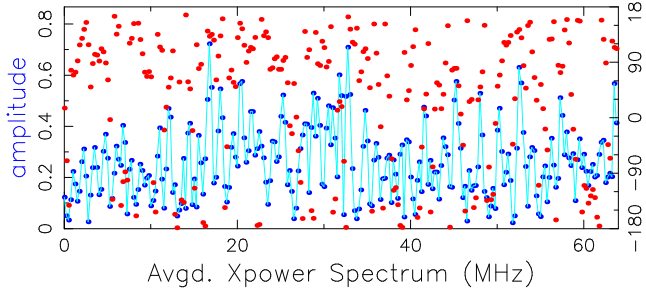


Fringe quality 9

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

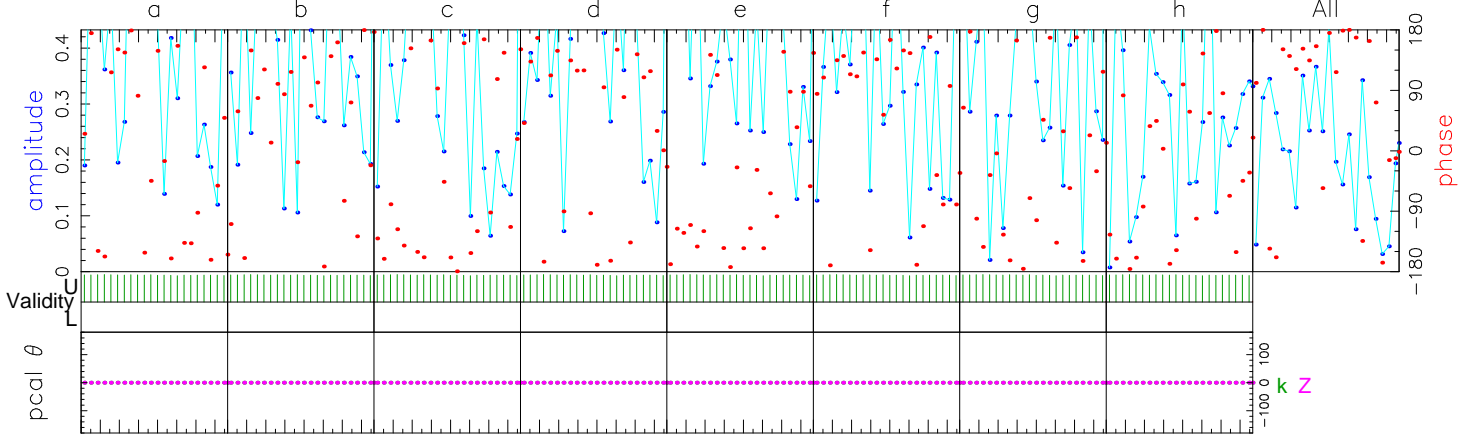


delay rate (ns/s)



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



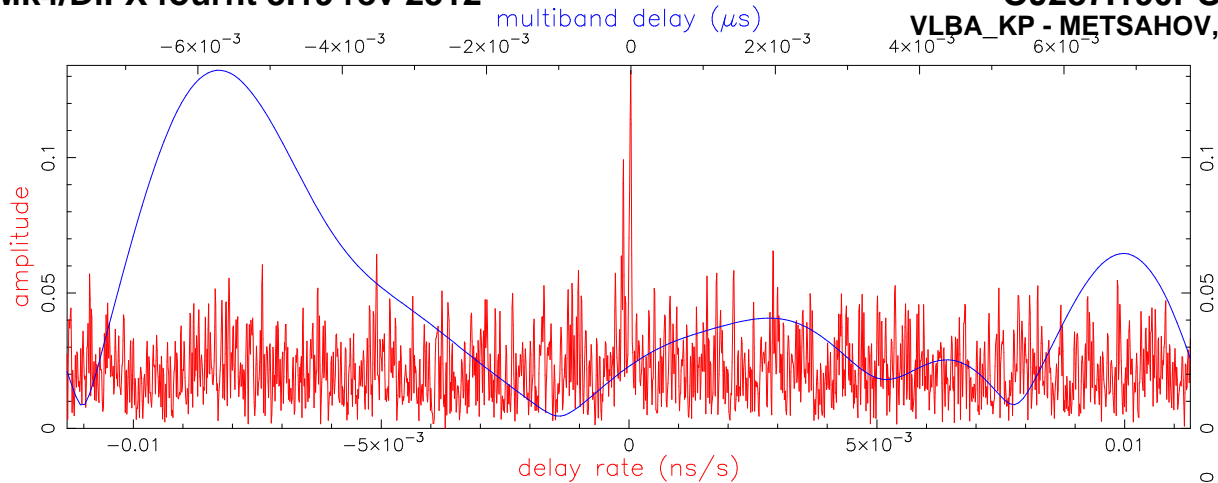
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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	Theor.	33.6	Amplitude	0.144 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	93.0		58.6	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		19.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	53.8		34.5	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	ion window (TEC) 0.00 0.00

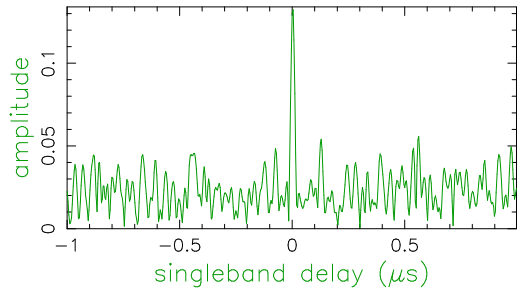
k: az 77.9 el 19.2 pa -62.2 Z: az 250.5 el 33.6 pa 29.9 u,v (fr/asec) -11112.157 -2485.639 simultaneous interpolator

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

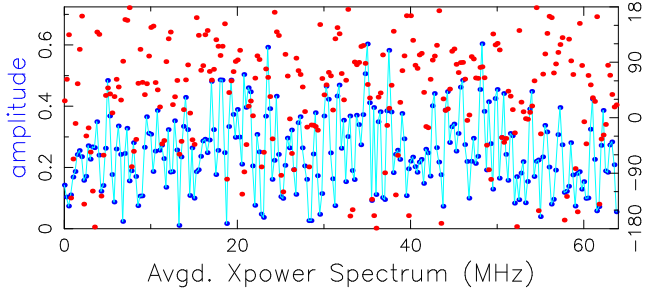


Fringe quality 9

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

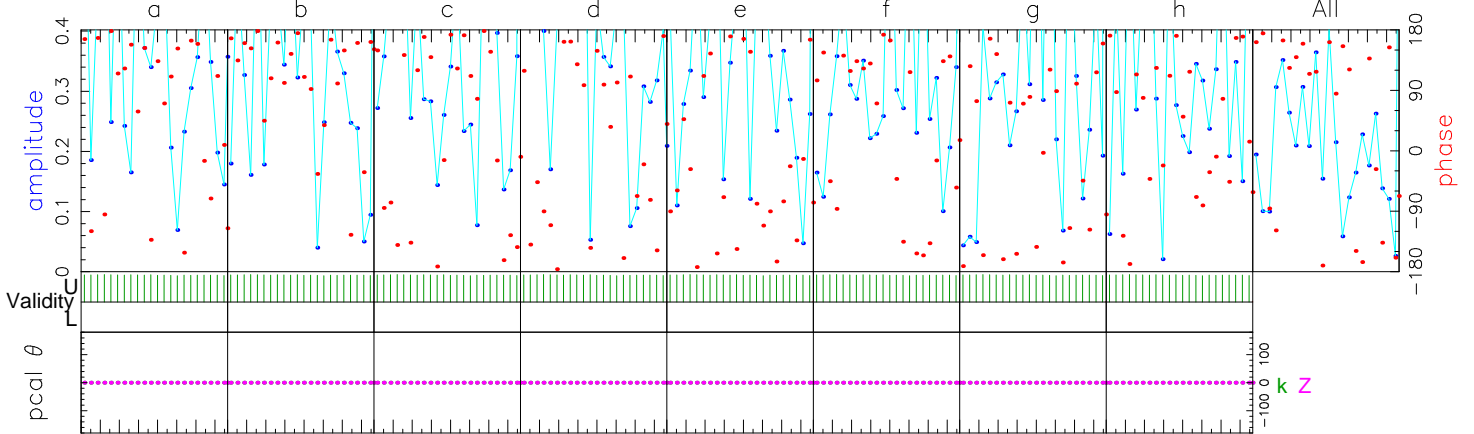


delay rate (ns/s)



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

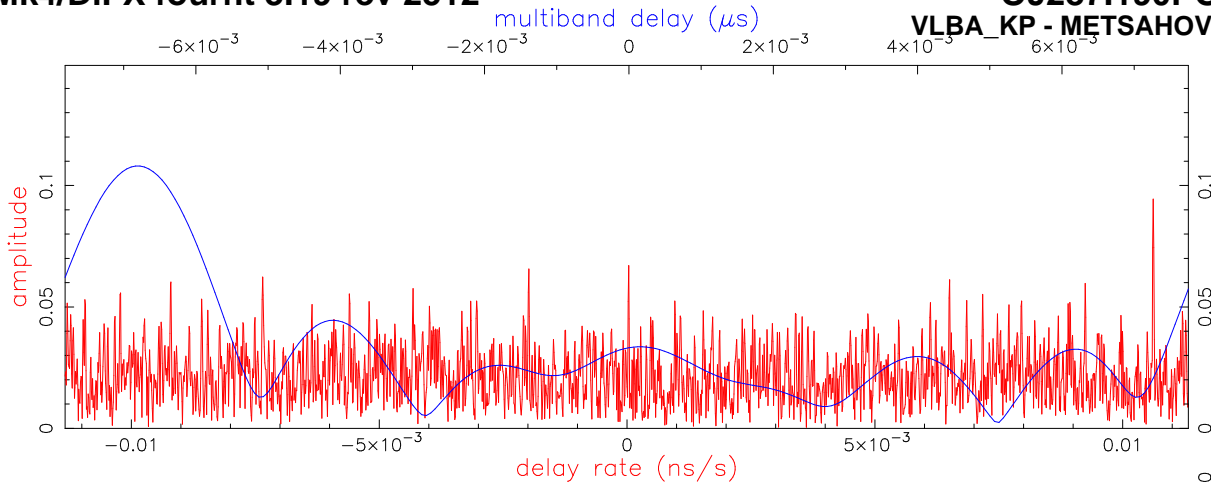


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	859/0	859/0	859/0	859/0	859/0	859/0	859/0	859/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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					
Sband delay (usec)	-4.26259108850E+03				-2.2493899E-01					
Phase delay (usec)	-4.26259336810E+03				-1.0600001E-08					
Delay rate (us/s)	1.82641445972E+00				1.82641442683E+00					
Total phase (deg)			97.9		9.56939135708E-06					
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
ph/seg (deg)	58.1	36.1			0.134 +/- 0.018					
amp/seg (%)	91.6	63.0			0.000					
ph/frq (deg)	43.6	21.3			0.171					
amp/frq (%)	36.7	37.2			0.145					
k: az 77.9 el 19.2 pa -62.2										
Z: az 250.5 el 33.6 pa 29.9										
u,v (fr/asec)										
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										

Mk4/DiFX fourfit 3.19 rev 2512

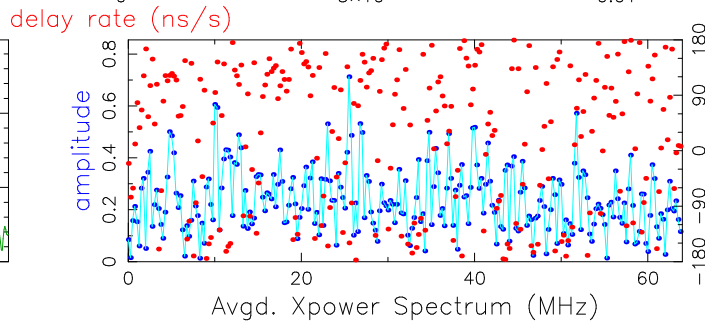
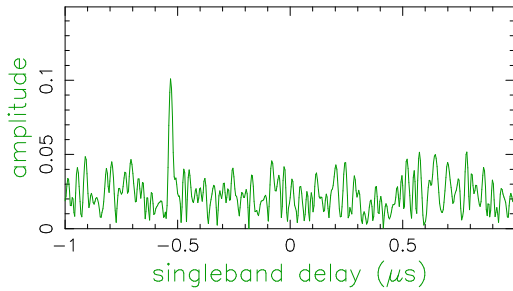
OJ287.190POF, No0032, kZ

VLBA_KP - METSAHOV, fgroup W, pol LR



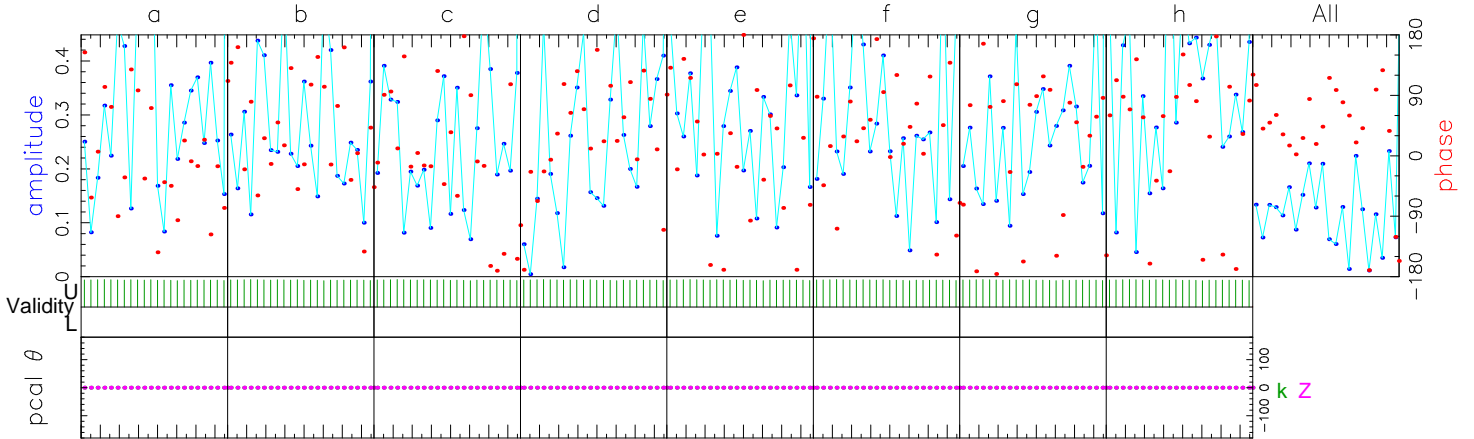
Fringe quality 0

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

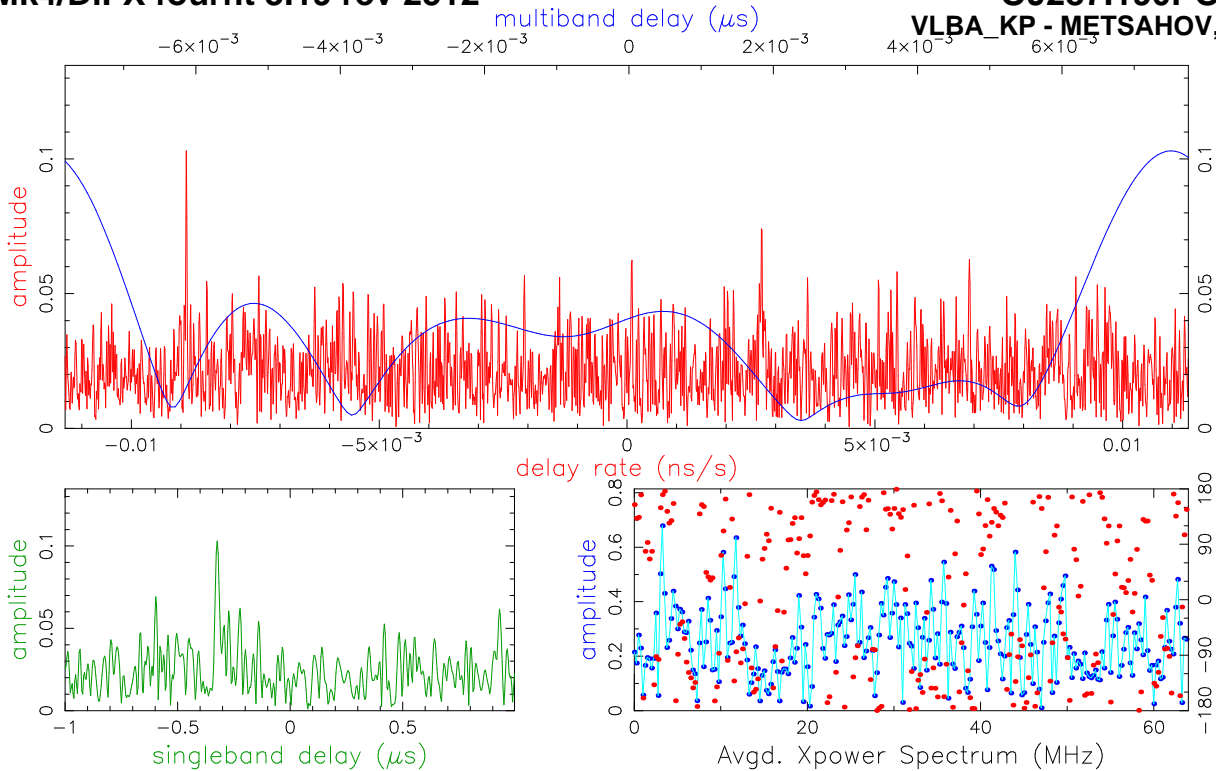
RMS Theor. Amplitude 0.149 +/- 0.026 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 58.7 48.0 Search (2048X32) 0.104 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 65.4 83.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008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

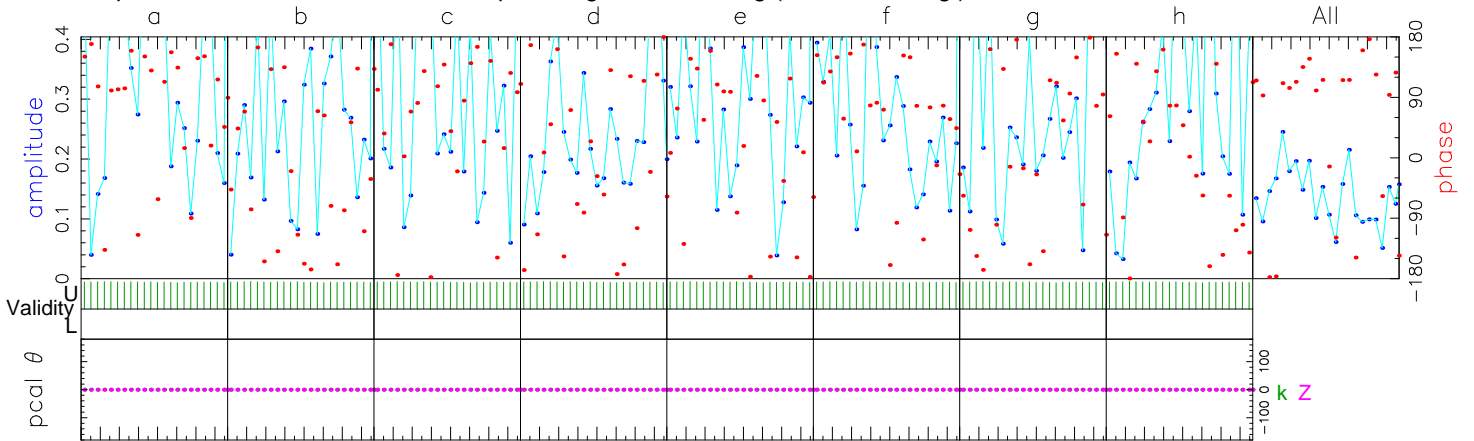
OJ287.190POF, No0032, kZ

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	