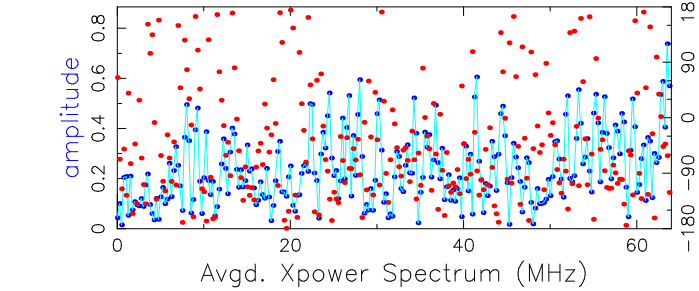
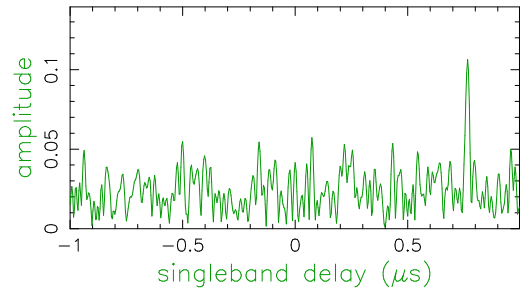
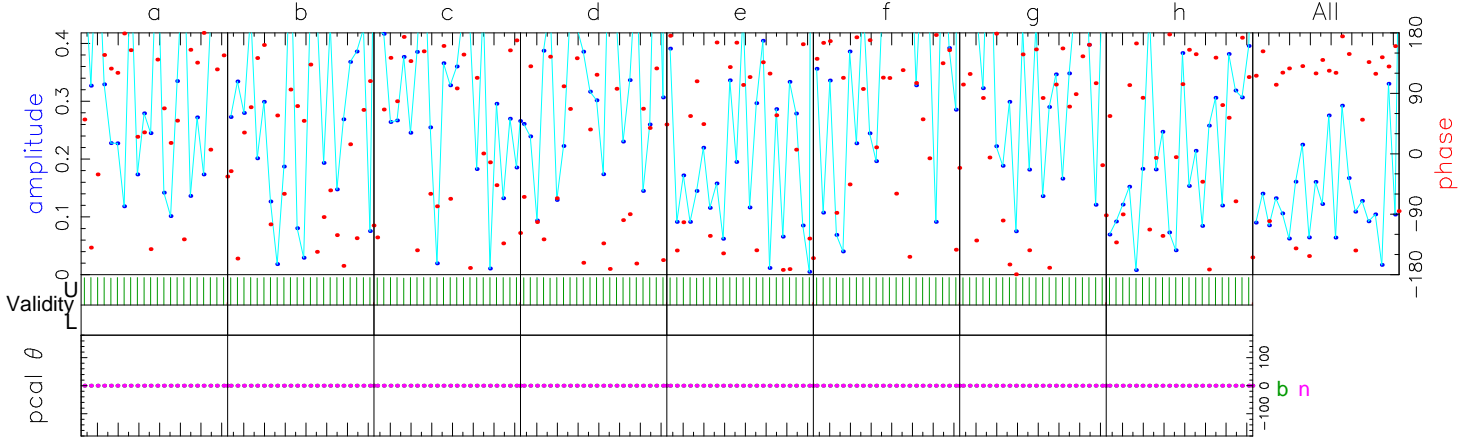


Fringe quality 0
SNR 5.9
Int time 406.536
Amp 0.139
Phase 142.6
PFD 6.7e-01
Delays (us)
SBD 0.765955
MBD -0.003879
Fringe rate (Hz) 0.770439
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183012.80
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165548
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"



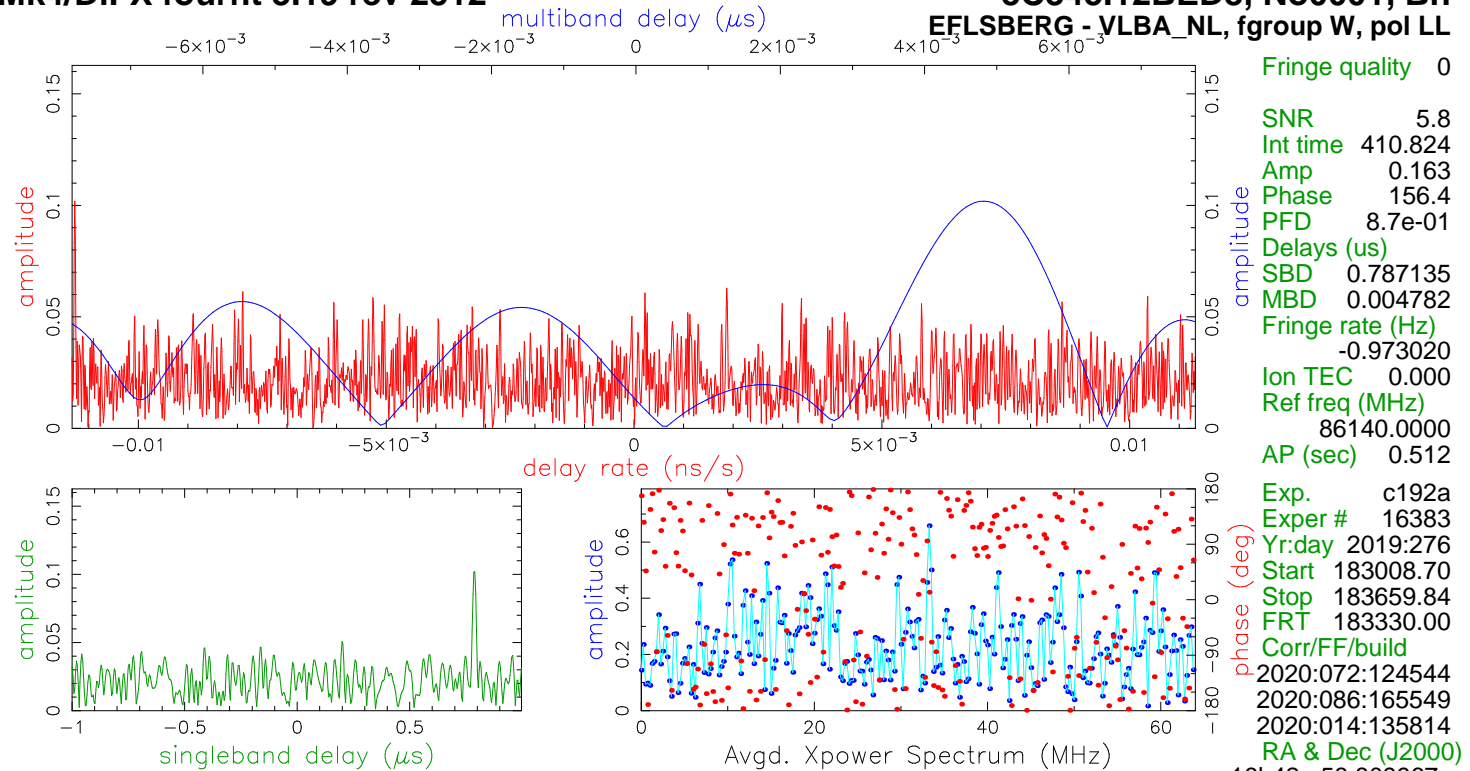
Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:n	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-4.59878731133E+03									
Sband delay (usec)	-4.59878310307E+03									
Phase delay (usec)	-4.59954905322E+03									
Delay rate (us/s)	8.41304367956E-02									
Total phase (deg)			-159.9							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
amplitude	0.139 +/- 0.024									
Search (2048X32)	0.103									
Interp.	0.000									
Inc. seg. avg.	0.137									
Inc. frq. avg.	0.128									
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
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								
amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

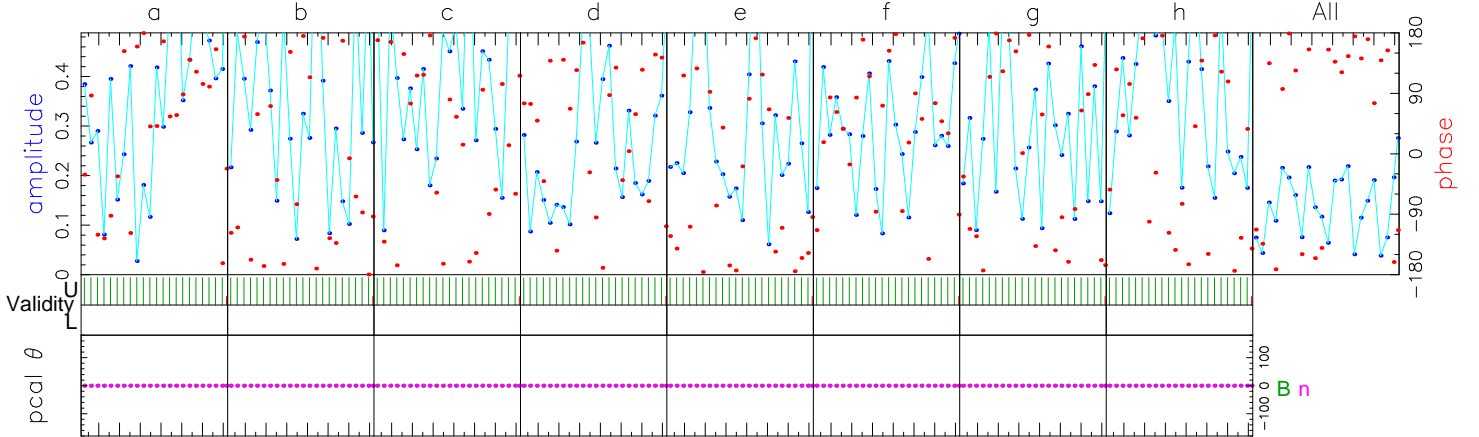
Mk4/DiFX fourfit 3.19 rev 2512

3C345.12BED8, No0001, Bn
EFLSBERG - VLBA_NL, fgroup W, pol LL



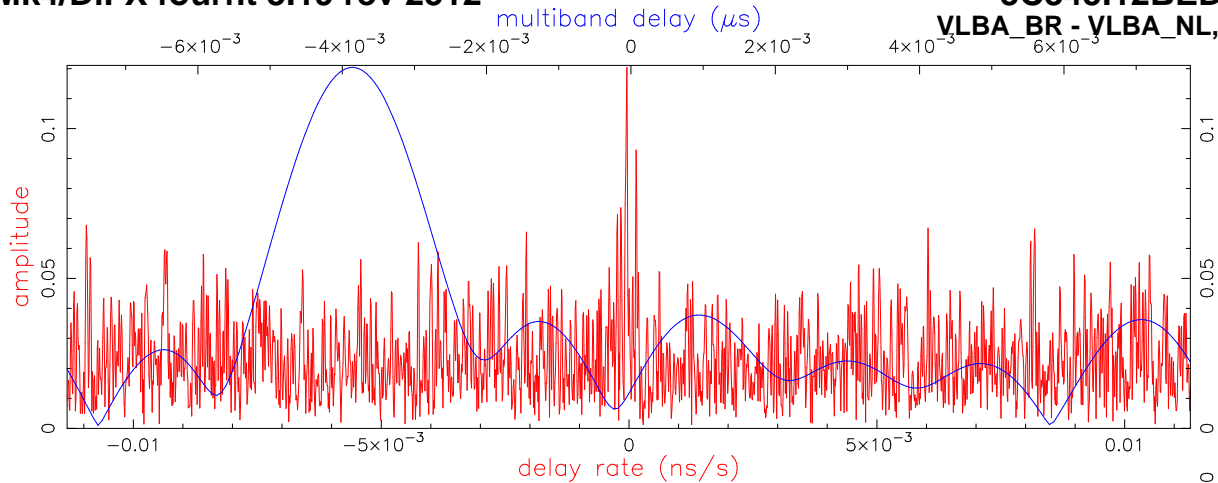
Fringe quality 0
SNR 5.8
Int time 410.824
Amp 0.163
Phase 156.4
PFD 8.7e-01
Delays (us)
SBD 0.787135
MBD 0.004782
Fringe rate (Hz)
-0.973020
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165549
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

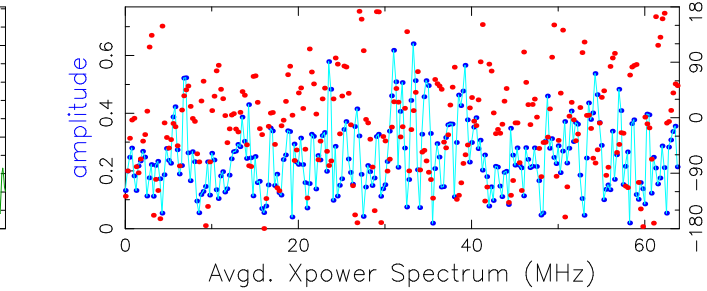
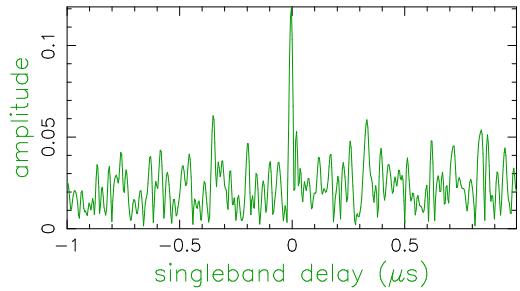


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	109.7	-162.7	152.7	120.1	174.1	92.9	167.8	165.1	Phase	156.4
	0.2	0.3	0.2	0.1	0.2	0.1	0.2	0.2	Ampl.	0.2
	116.3	459.0	402.9	507.2	448.1	255.5	458.8	341.3	Sbd box	458.5
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.06543671490E+03		Apriori delay (usec)		1.06465068296E+03		Resid mbdelay (usec)		4.78195E-03	+/- 1.9E-04
Sband delay (usec)	1.06543781771E+03		Apriori clock (usec)		-9.6362743E-07		Resid sbdelay (usec)		7.87135E-01	+/- 1.5E-03
Phase delay (usec)	1.06465068800E+03		Apriori clockrate (us/s)		-3.3422351E-07		Resid phdelay (usec)		5.04447E-06	+/- 6.4E-07
Delay rate (us/s)	-1.25232483473E+00		Apriori rate (us/s)		-1.25231353893E+00		Resid rate (us/s)		-1.12958E-05	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		1.93173982764E-06		Resid phase (deg)		156.4	+/- 19.9

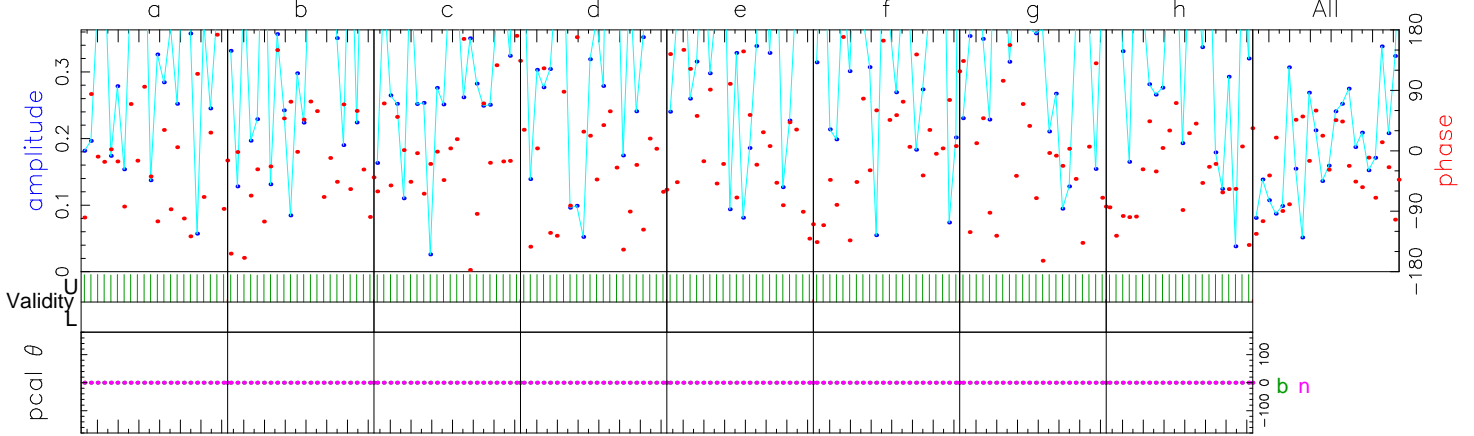
ph/seg (deg) 43.7 47.7 Search (2048X32) 0.098 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 68.1 83.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 40.3 28.1 Inc. seg. avg. 0.159 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 40.2 49.1 Inc. frq. avg. 0.170 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
B: az 269.2 el 56.7 pa 55.8 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) 9336.331 733.935 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bn.W.23.12BED8



Fringe quality 0
SNR 6.7
Int time 406.536
Amp 0.121
Phase -22.0
PFD 7.1e-03
Delays (us)
SBD -0.004876
MBD -0.003897
Fringe rate (Hz)
-0.004173
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183012.80
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165552
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

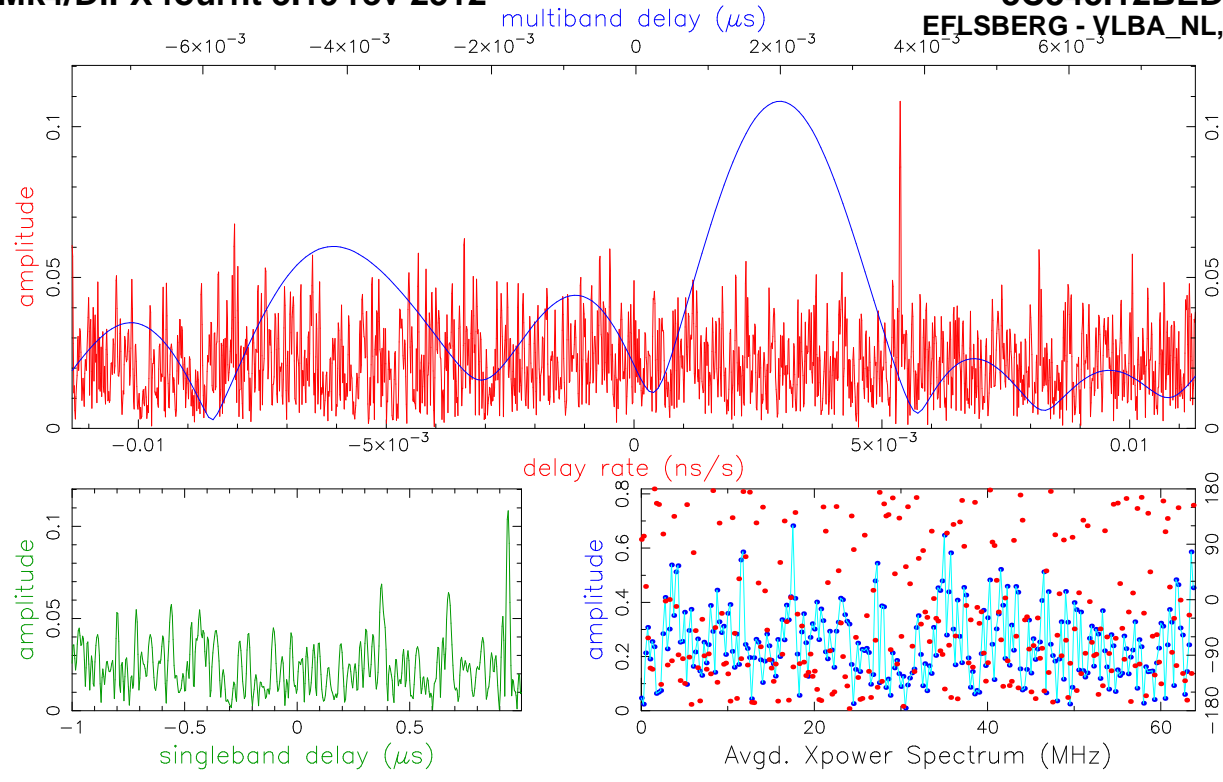


Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-37.5	-36.3	-5.4	-10.9	-14.9	-0.4	-35.6	-29.4	Phase	-22.0
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
	471.4	341.0	3.0	167.4	227.4	89.7	239.0	256.3	Sbd box	255.8
U/L	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.59955295441E+03		Apriori delay (usec)		-4.59954905782E+03		Resid mbdelay (usec)		-3.89660E-03	+/- 1.6E-04
Sband delay (usec)	-4.59955393432E+03		Apriori clock (usec)		-2.7088036E+01		Resid sbdelay (usec)		-4.87650E-03	+/- 1.3E-03
Phase delay (usec)	-4.59954905853E+03		Apriori clockrate (us/s)		-3.7661858E-07		Resid phdelay (usec)		-7.10602E-07	+/- 5.5E-07
Delay rate (us/s)	8.41214443251E-02		Apriori rate (us/s)		8.41214927678E-02		Resid rate (us/s)		-4.84427E-08	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		2.99879442187E-05		Resid phase (deg)		-22.0	+/- 17.2

ph/seg (deg) 54.8 41.2 Search (2048X32) 0.117 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 88.5 71.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 16.3 24.3 Inc. seg. avg. 0.151 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 25.6 42.4 Inc. frq. avg. 0.114 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
b: az 66.1 el 33.9 pa -52.6 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) -574.191 2503.528 ion window (TEC) 0.00 0.00 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/bn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/bn.W.36.12BED8

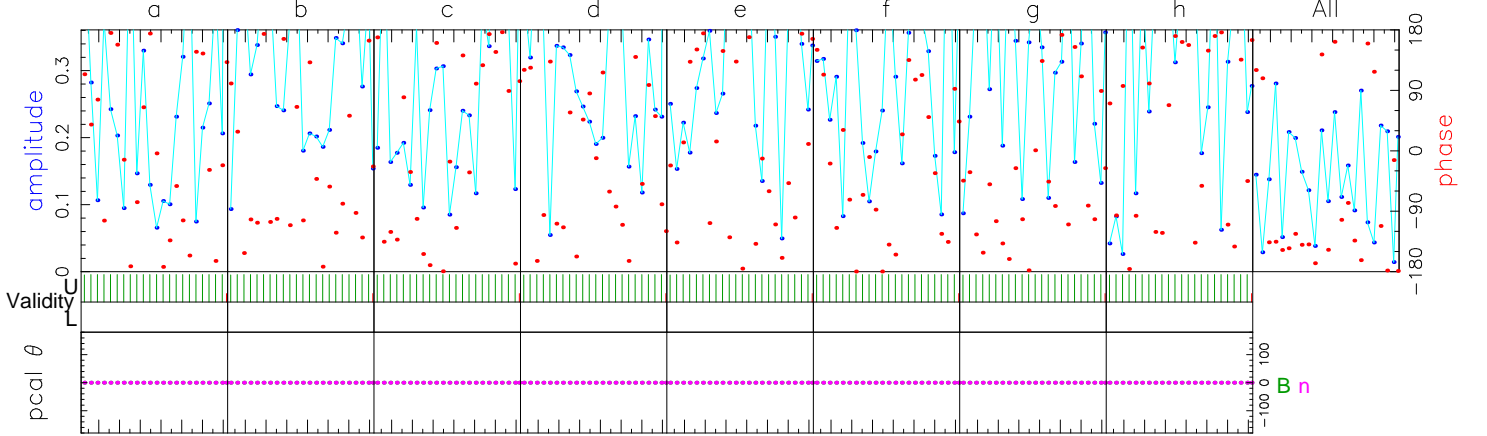


Fringe quality 0

SNR 6.1
Int time 410.824
Amp 0.120
Phase -154.0
PFD 2.8e-01
Delays (us)
SBD 0.936297
MBD 0.001993
Fringe rate (Hz)
0.462756
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

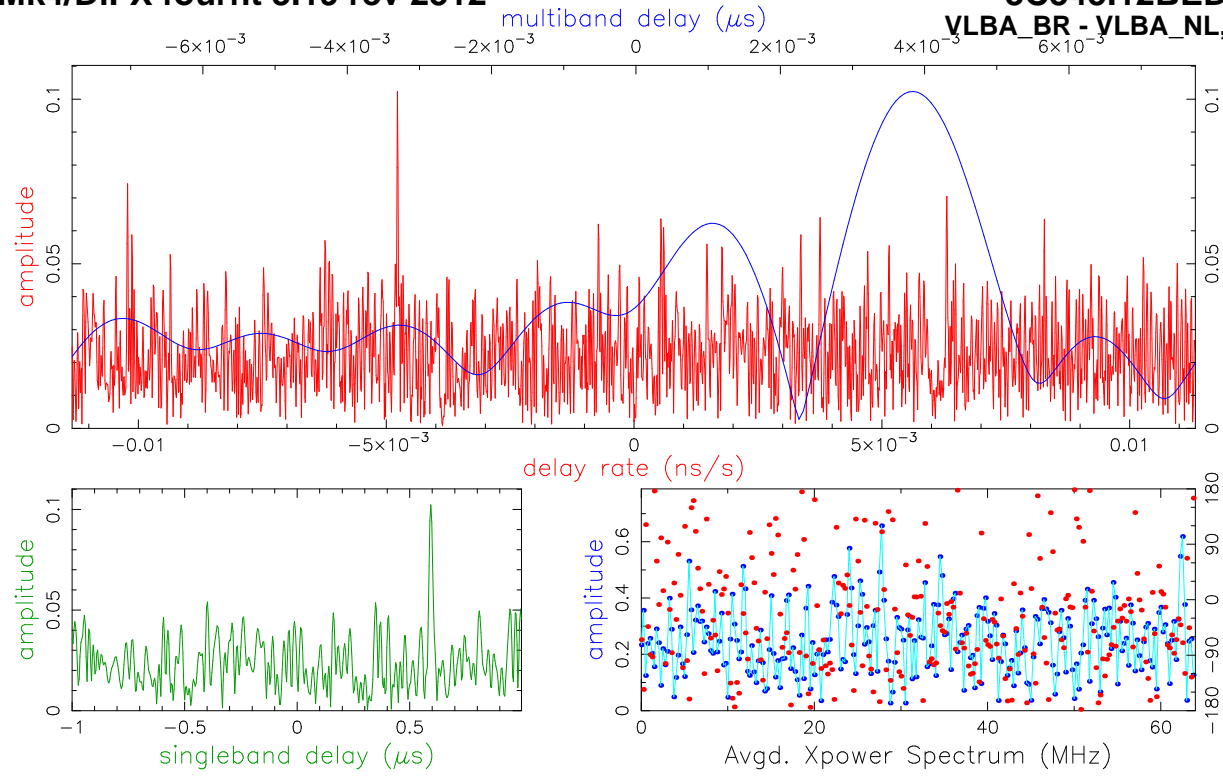
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165553
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



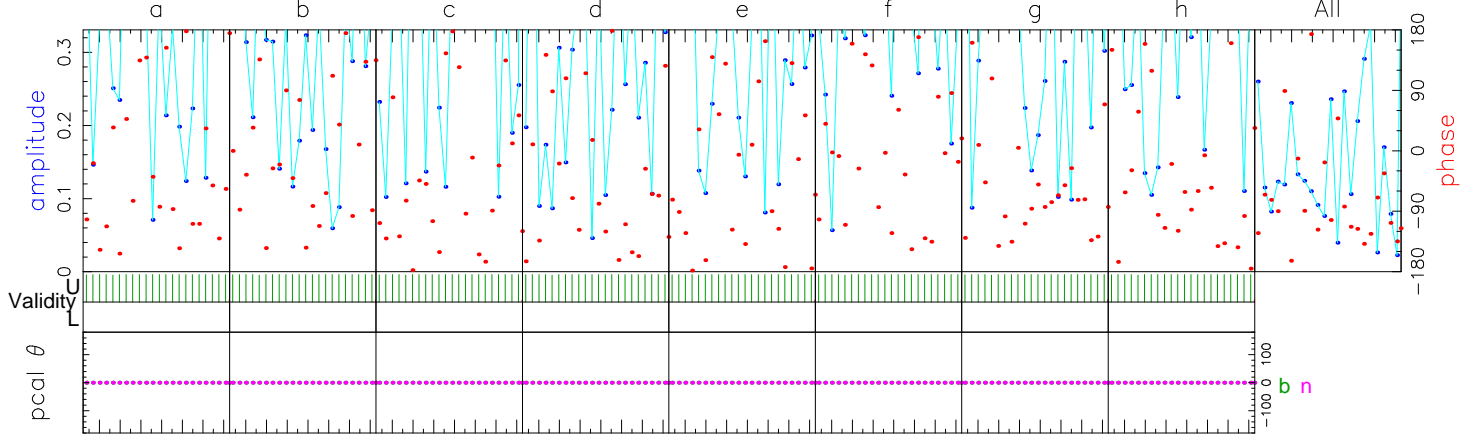
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-175.6	-124.5	174.0	-133.0	-139.7	-178.3	-114.9	-176.6	Phase	-154.0
	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	Ampl.	0.1
	59.7	190.7	268.2	427.8	464.4	146.2	53.4	381.8	Sbd box	496.7
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.06559017582E+03		Apriori delay (usec)		1.06465068296E+03		Resid mbdelay (usec)		1.99287E-03	+/- 1.8E-04
Sband delay (usec)	1.06558697996E+03		Apriori clock (usec)		-9.6362743E+00		Resid sbdelay (usec)		9.36297E-01	+/- 1.4E-03
Phase delay (usec)	1.06465067799E+03		Apriori clockrate (us/s)		-3.3422351E-07		Resid phdelay (usec)		-4.96579E-06	+/- 6.1E-07
Delay rate (us/s)	-1.25230816679E+00		Apriori rate (us/s)		-1.25231353893E+00		Resid rate (us/s)		5.37214E-06	+/- 2.6E-09
Total phase (deg)	144.8		Apriori accel (us/s/s)		1.93173982764E-06		Resid phase (deg)		-154.0	+/- 18.9

ph/seg (deg) 54.5 45.3 Search (2048X32) 0.106 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 77.5 79.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 30.7 26.7 Inc. seg. avg. 0.119 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.2 46.6 Inc. frq. avg. 0.121 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 269.2 el 56.7 pa 55.8 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) 9336.331 733.935 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bn.W.44.12BED8



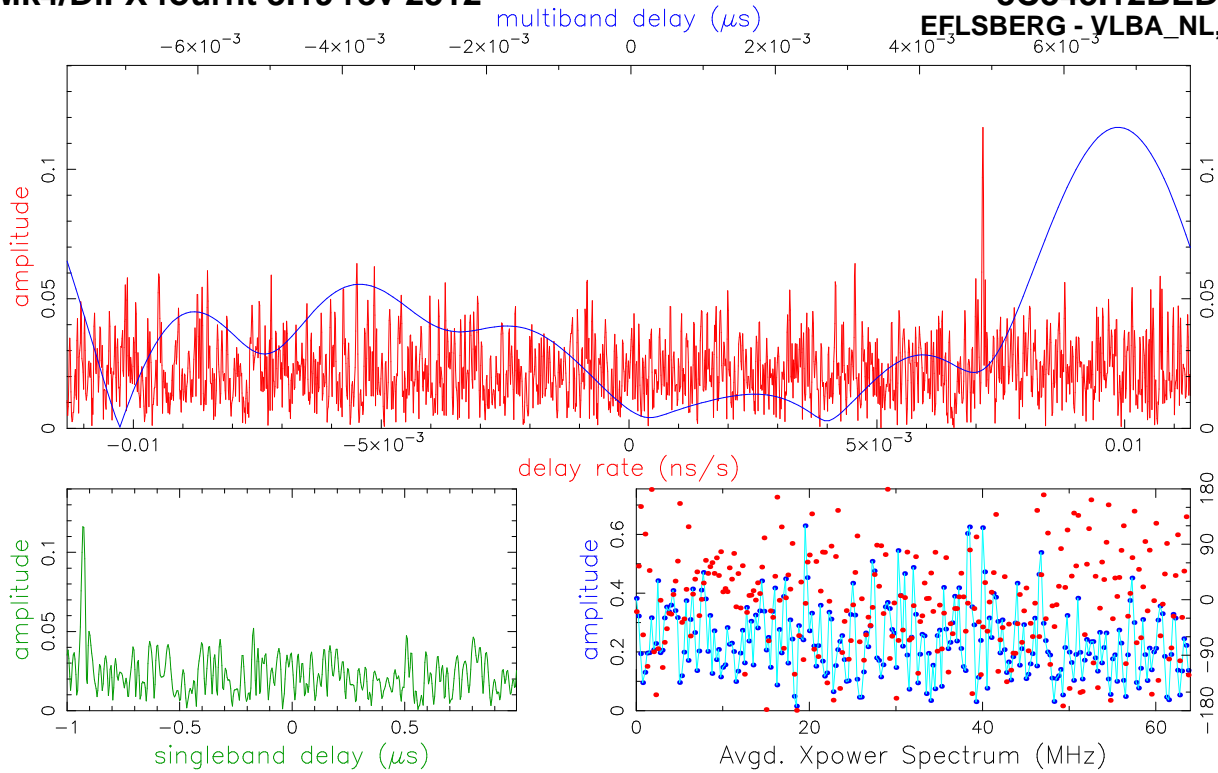
Fringe quality 0
SNR 5.6
Int time 406.536
Amp 0.110
Phase -107.2
PFD 9.8e-01
Delays (us)
SBD 0.593586
MBD 0.003828
Fringe rate (Hz)
-0.411960
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183012.80
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165557
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 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
	-100.3	-70.5	-135.7	-112.8	-137.7	-65.2	-90.6	-121.0	Phase	-107.2
	0.2	0.1	0.2	0.1	0.1	0.0	0.2	0.2	Ampl.	0.1
	441.2	468.4	410.3	263.3	360.8	300.9	408.8	433.0	Sbd box	409.0
U/L	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.59895147978E+03		Apriori delay (usec)		-4.59954905782E+03		Resid mbdelay (usec)		3.82803E-03	+/- 1.9E-04
Sband delay (usec)	-4.59895547157E+03		Apriori clock (usec)		-2.7088036E+01		Resid sbdelay (usec)		5.93586E-01	+/- 1.5E-03
Phase delay (usec)	-4.59954906127E+03		Apriori clockrate (us/s)		-3.7661858E-07		Resid phdelay (usec)		-3.45812E-06	+/- 6.5E-07
Delay rate (us/s)	8.41167103149E-02		Apriori rate (us/s)		8.41214927678E-02		Resid rate (us/s)		-4.78245E-06	+/- 2.8E-09
Total phase (deg)			Apriori accel (us/s/s)		2.99879442187E-05		Resid phase (deg)		-107.2	+/- 20.3

ph/seg (deg) 64.1 48.7 Search (2048X32) 0.100 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 96.0 85.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 30.0 28.7 Inc. seg. avg. 0.117 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 52.8 50.1 Inc. frq. avg. 0.105 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
b: az 66.1 el 33.9 pa -52.6 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) -574.191 2503.528 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/bn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/bn.W.56.12BED8 simultaneous interpolator

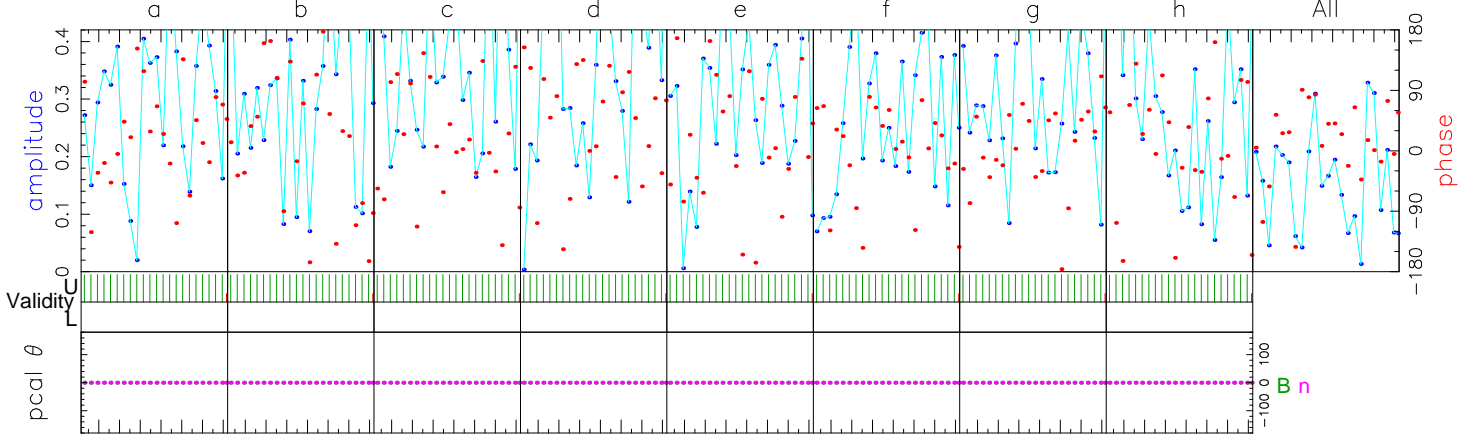


Fringe quality 0

SNR 6.6
Int time 410.824
Amp 0.140
Phase 31.2
PFD 1.5e-02
Delays (us)
SBD -0.927808
MBD 0.006791
Fringe rate (Hz) 0.616076
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165558
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

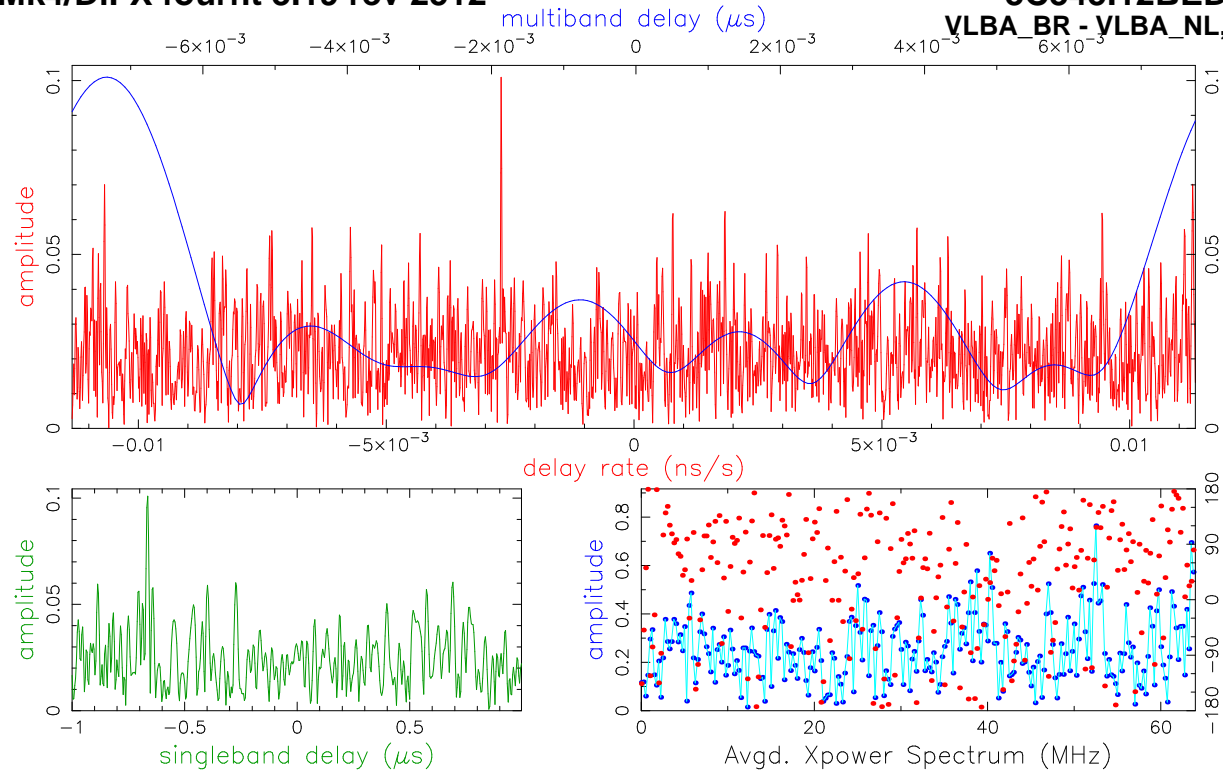
Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:n	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		1.06371997389E+03				1.06465068296E+03			6.79093E-03	+/- 1.7E-04
Sband delay (usec)		1.06372287471E+03				-9.6362743E+00			-9.27808E-01	+/- 1.3E-03
Phase delay (usec)		1.06465068396E+03				-3.3422351E-07			1.00513E-06	+/- 5.6E-07
Delay rate (us/s)		-1.25230638689E+00				-1.25231353893E+00			7.15203E-06	+/- 2.4E-09
Total phase (deg)			329.9			1.93173982764E-06			31.2	+/- 17.5
ph/seg (deg)	61.0	41.9								
amp/seg (%)	81.6	73.1								
ph/frq (deg)	29.0	24.7								
amp/frq (%)	39.1	43.1								

B: az 269.2 el 56.7 pa 55.8 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) 9336.331 733.935 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bn.W.61.12BED8

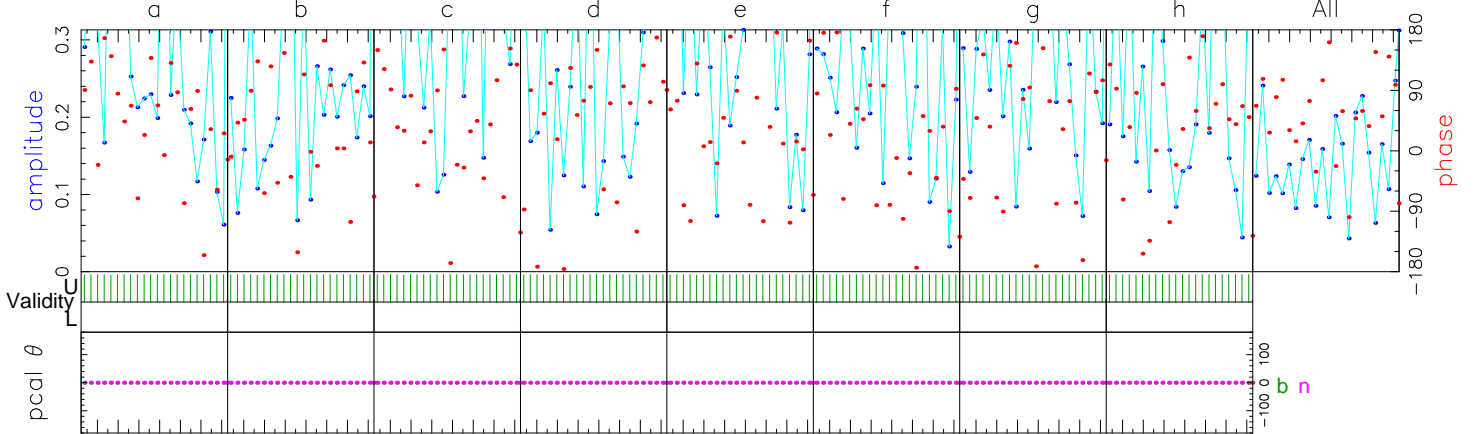


Fringe quality 0

SNR 5.6
Int time 406.536
Amp 0.104
Phase 64.3
PFD 9.9e-01
Delays (us)
SBD -0.665186
MBD -0.007374
Fringe rate (Hz)
-0.230663
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183012.80
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165601
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

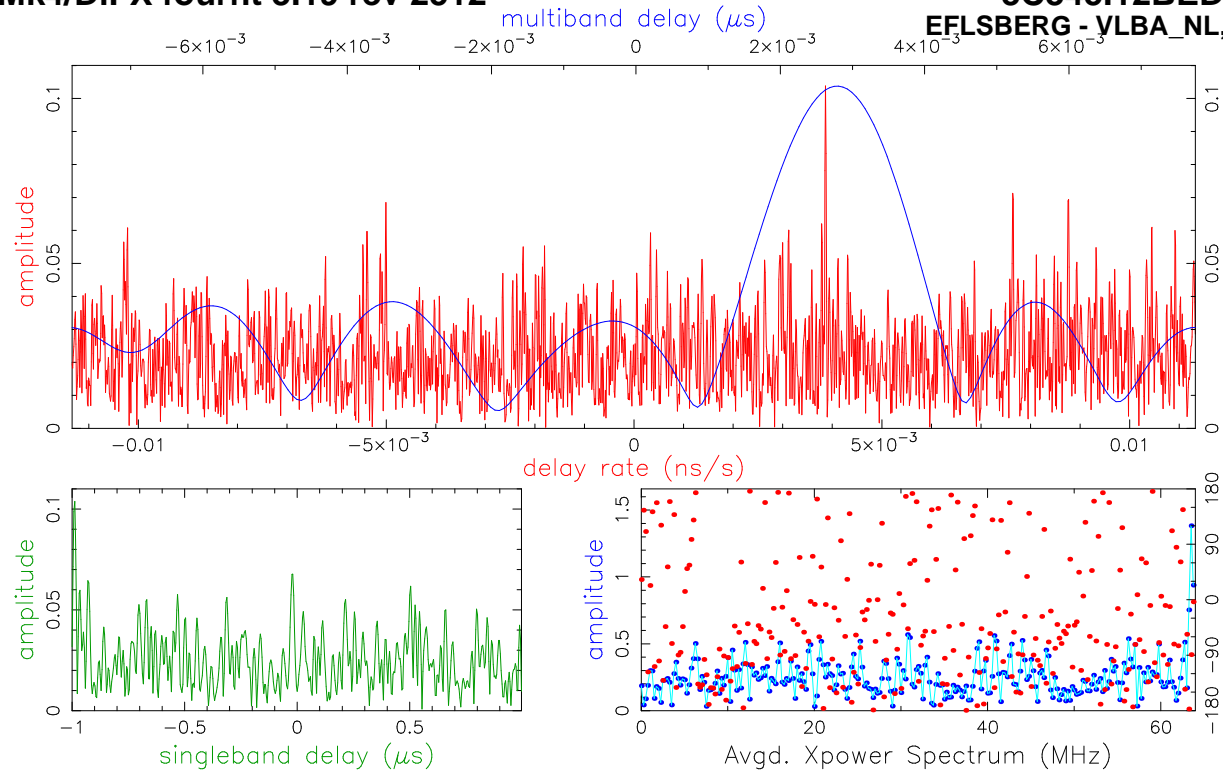
Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:n	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		
n	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-4.60021268210E+03									
Sband delay (usec)	-4.60021424332E+03									
Phase delay (usec)	-4.59954905574E+03									
Delay rate (us/s)	8.41188150003E-02									
Total phase (deg)			-238.2							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									64.3	+/- 20.4
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

b: az 66.1 el 33.9 pa -52.6 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) -574.191 2503.528 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/bn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/bn.W.76.12BED8

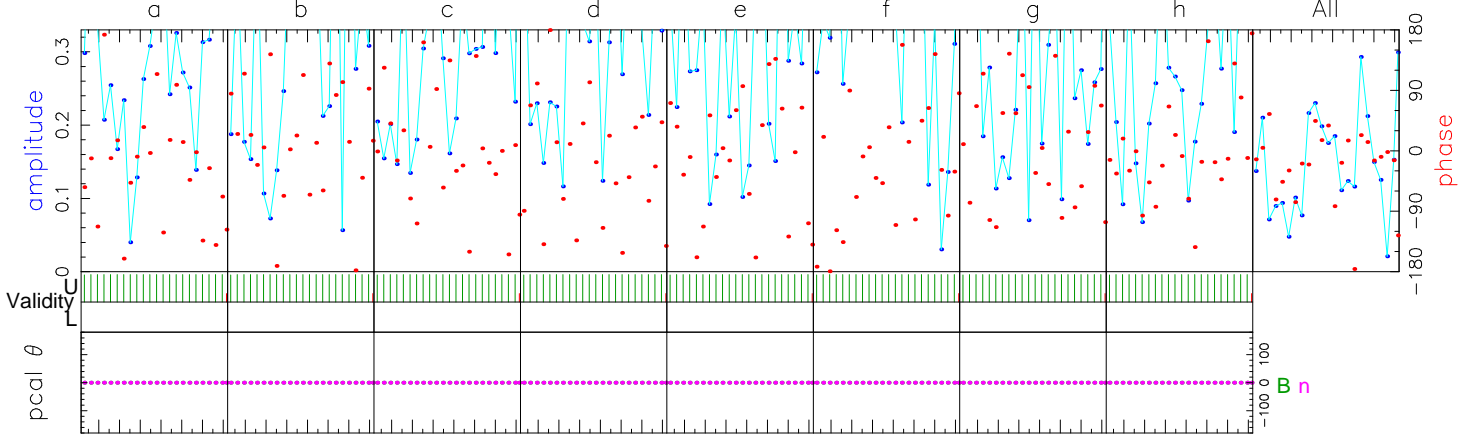


Fringe quality 0

SNR 5.8
Int time 410.824
Amp 0.110
Phase -5.1
PFD 7.9e-01
Delays (us)
SBD -0.989424
MBD 0.002780
Fringe rate (Hz) 0.333075
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

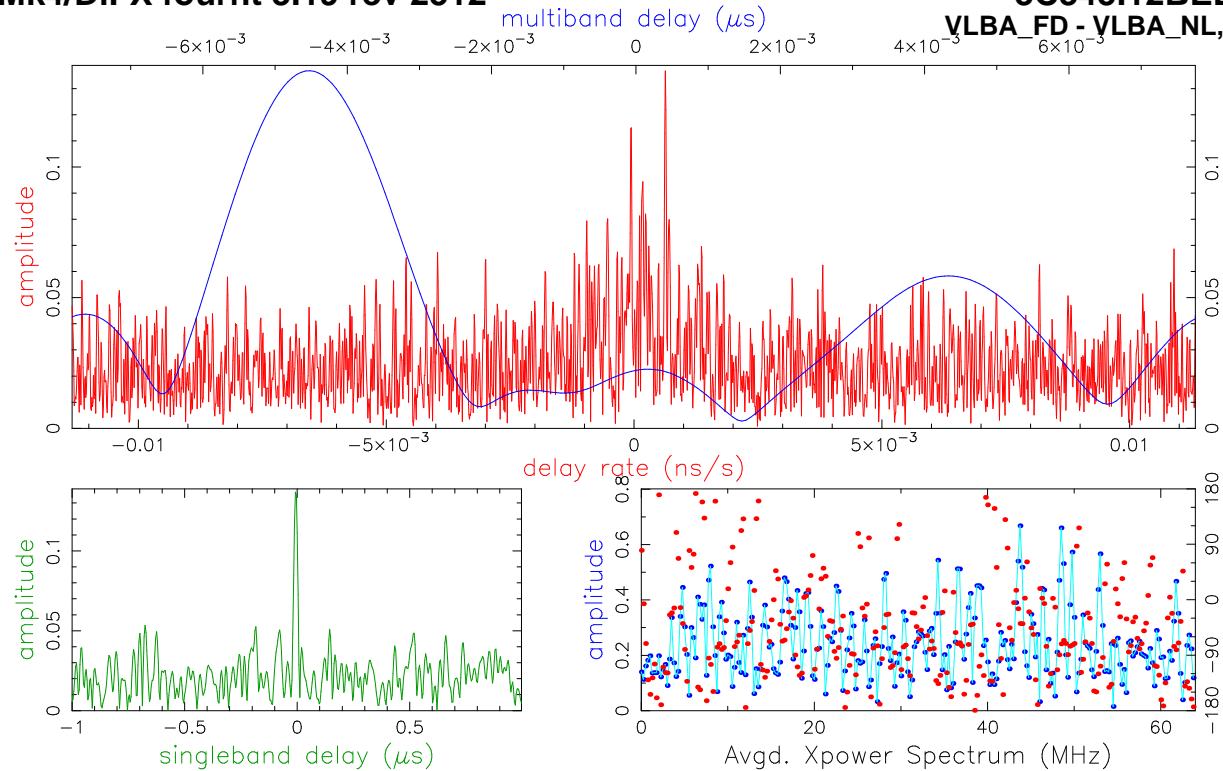
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165602
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-49.4	27.6	-6.2	-16.5	11.0	-31.8	22.6	-12.1	Phase	-5.1
	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	Ampl.	0.1
	462.2	3.2	225.9	97.7	97.3	107.0	308.1	385.0	Sbd box	3.7
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.06365346321E+03		Apriori delay (usec)		1.06465068296E+03		Resid mbdelay (usec)		2.78026E-03	+/- 1.9E-04
Sband delay (usec)	1.06366125946E+03		Apriori clock (usec)		-9.6362743E-07		Resid sbdelay (usec)		-9.89424E-01	+/- 1.5E-03
Phase delay (usec)	1.06465068279E+03		Apriori clockrate (us/s)		-3.3422351E-07		Resid phdelay (usec)		-1.64620E-07	+/- 6.4E-07
Delay rate (us/s)	-1.25230967225E+00		Apriori rate (us/s)		-1.25231353893E+00		Resid rate (us/s)		3.86667E-06	+/- 2.7E-09
Total phase (deg)	293.6		Apriori accel (us/s/s)		1.93173982764E-06		Resid phase (deg)		-5.1	+/- 19.7

ph/seg (deg) 52.9 47.3 Search (2048X32) 0.110 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.8 82.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 28.7 27.9 Inc. seg. avg. 0.113 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 28.7 48.7 Inc. frq. avg. 0.107 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 B: az 269.2 el 56.7 pa 55.8 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) 9336.331 733.935 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Bn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Bn.W.81.12BED8 simultaneous interpolator

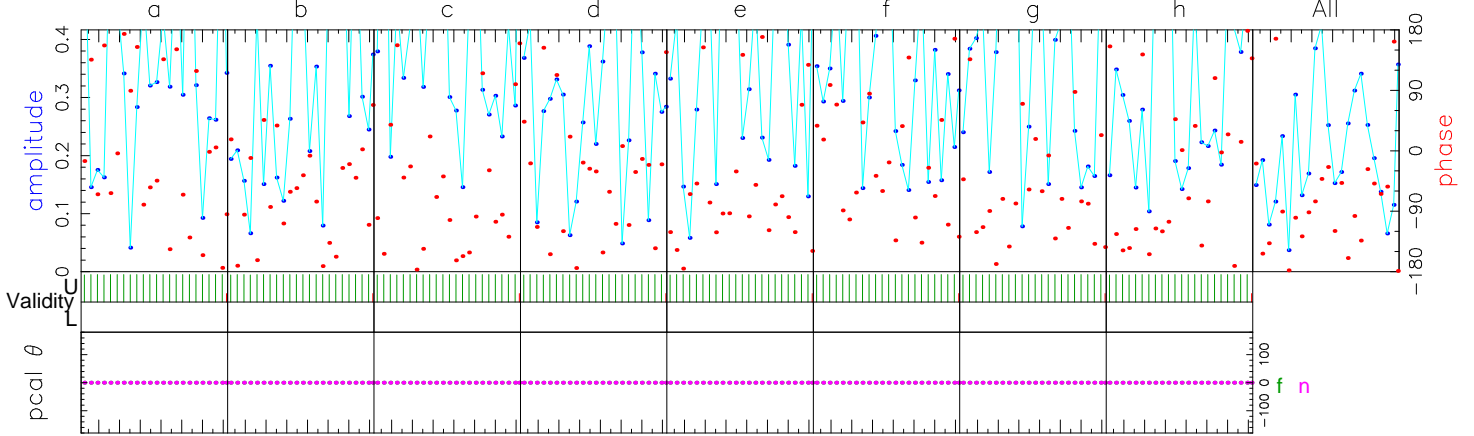


Fringe quality 9

SNR 7.7
Int time 410.452
Amp 0.139
Phase -89.5
PFD 5.1e-06
Delays (us)
SBD -0.006181
MBD -0.004490
Fringe rate (Hz) 0.054084
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

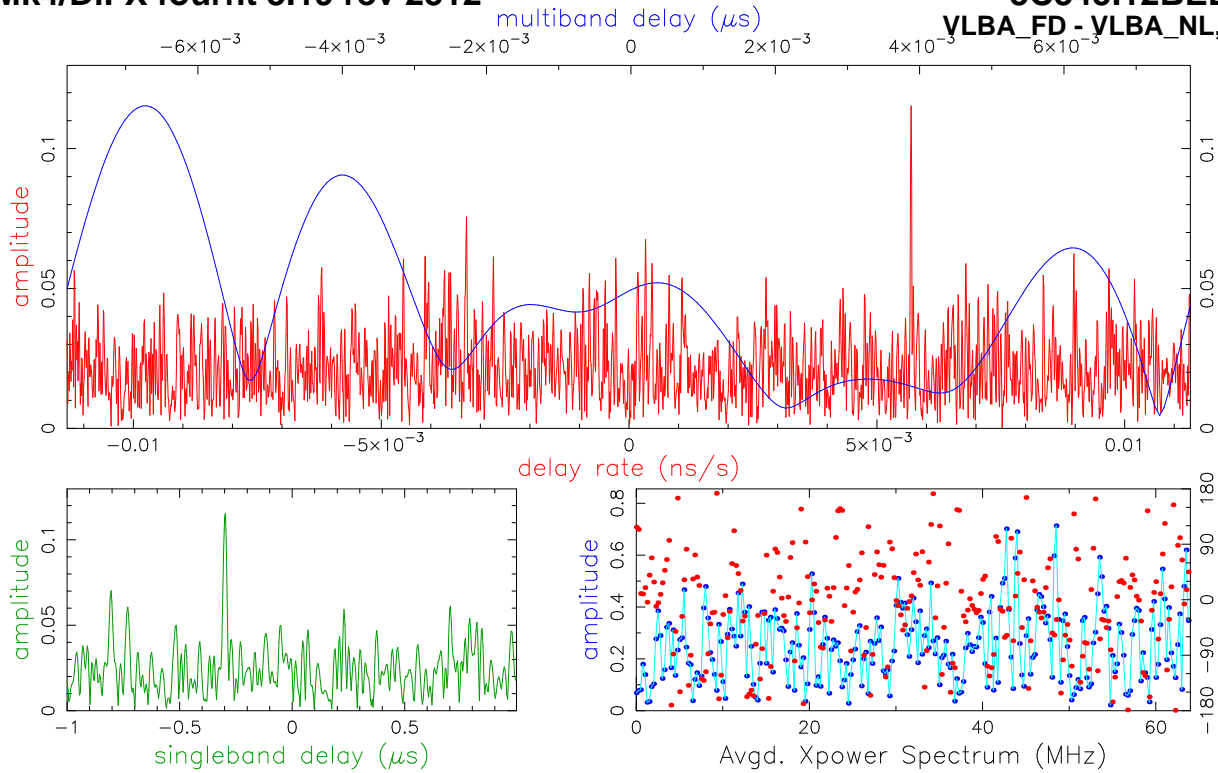
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165612
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 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
	-113.8	-65.3	-113.6	-62.0	-96.0	-51.0	-88.3	-131.6	Phase	-89.5
	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.1	Ampl.	0.1
	132.1	254.7	254.4	307.6	256.4	387.8	255.7	315.5	Sbd box	255.4
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.57270625625E+03		Apriori delay (usec)		-3.57270176659E+03		Resid mbdelay (usec)		-4.48966E-03	+/- 1.4E-04
Sband delay (usec)	-3.57270794784E+03		Apriori clock (usec)		-2.6020557E+01		Resid sbdelay (usec)		-6.18125E-03	+/- 1.1E-03
Phase delay (usec)	-3.57270176948E+03		Apriori clockrate (us/s)		-2.2517302E-07		Resid phdelay (usec)		-2.88706E-06	+/- 4.8E-07
Delay rate (us/s)	2.24320943593E-01		Apriori rate (us/s)		2.24320315735E-01		Resid rate (us/s)		6.27858E-07	+/- 2.0E-09
Total phase (deg)			Apriori accel (us/s/s)		7.56842907894E-06		Resid phase (deg)		-89.5	+/- 14.9

ph/seg (deg) 55.6 35.8 Search (2048X32) 0.133 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 88.1 62.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 31.1 21.1 Inc. seg. avg. 0.173 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 33.2 36.8 Inc. frq. avg. 0.141 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 61.0 el 37.1 pa -78.2 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) -1661.023 -549.903 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/fn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/fn.W.115.12BED8

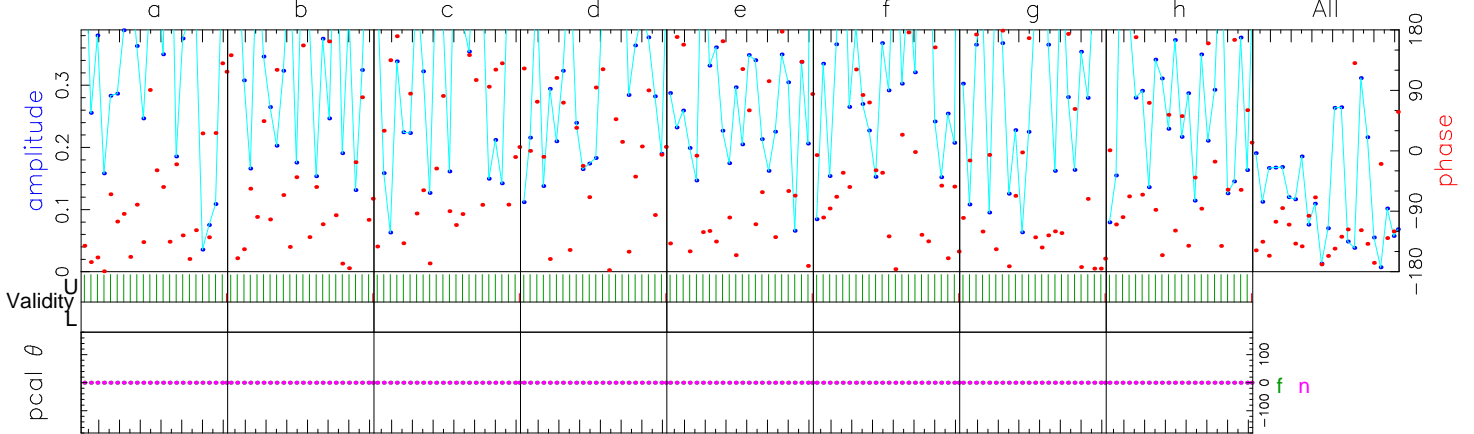


Fringe quality 0

SNR 6.5
Int time 410.452
Amp 0.130
Phase -128.8
PFD 2.8e-02
Delays (us)
SBD -0.298356
MBD -0.006764
Fringe rate (Hz)
0.490508
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

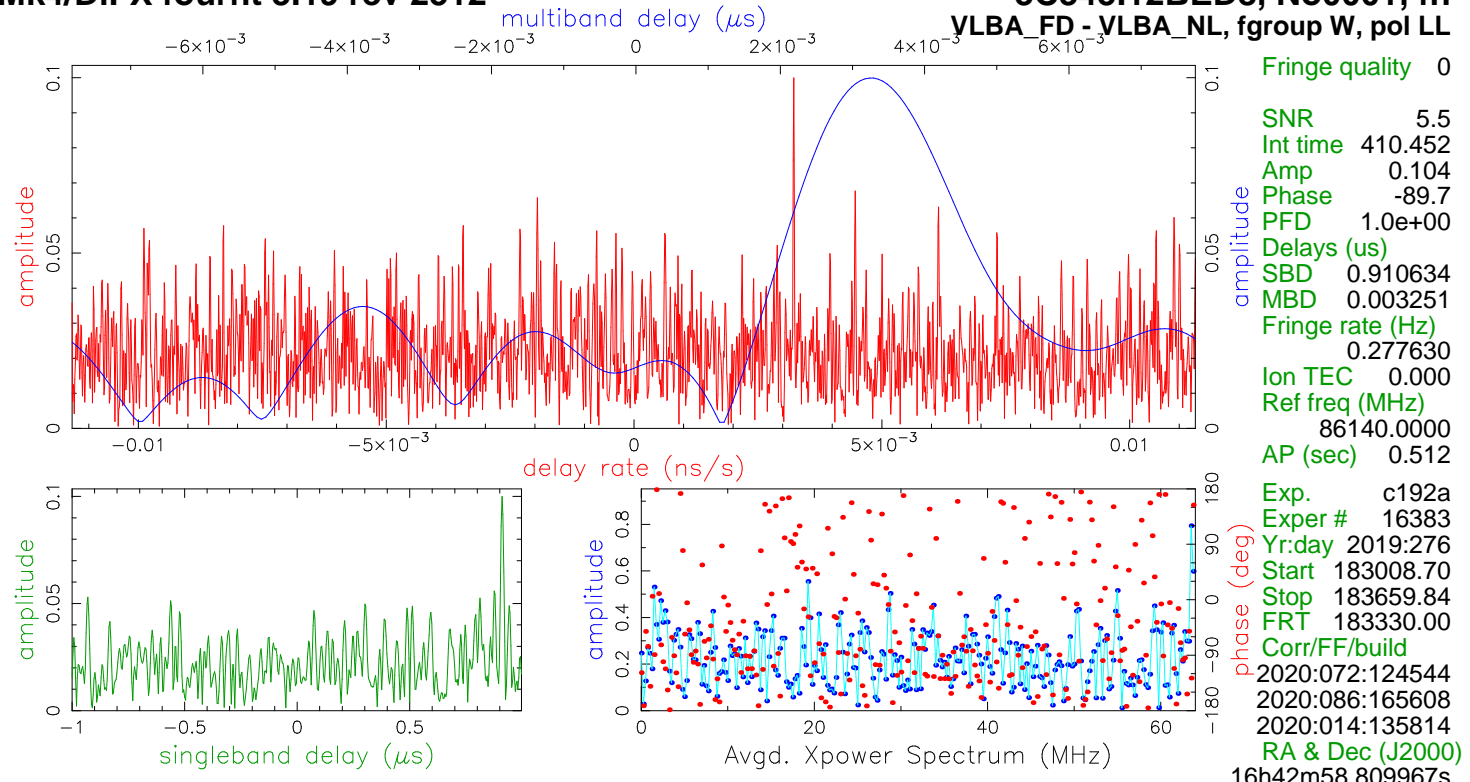
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165619
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

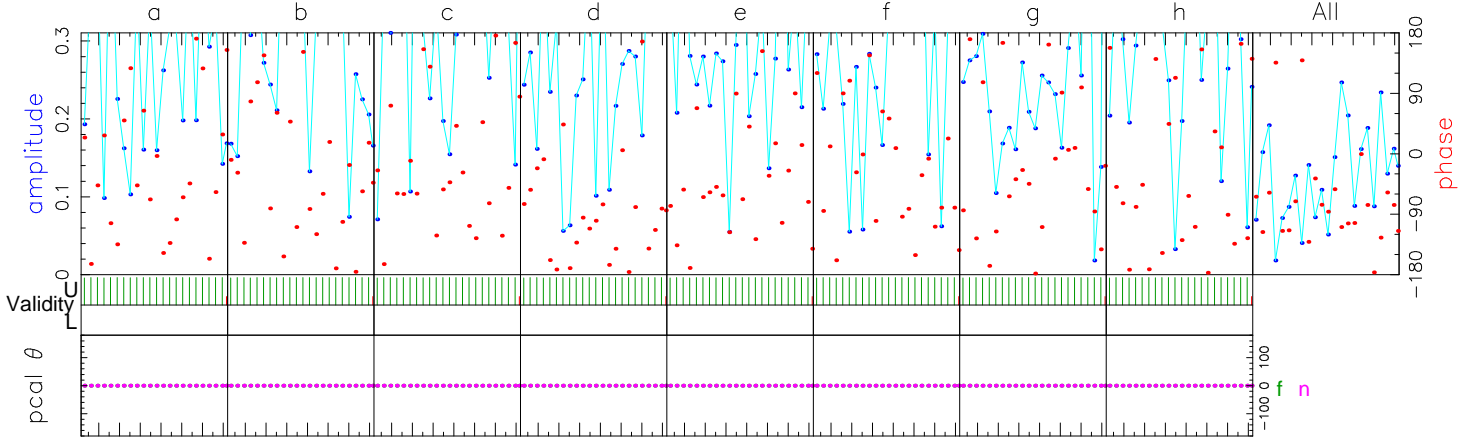


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-131.0	-130.8	-96.3	59.4	-153.4	-107.6	-145.9	-97.0	Phase	-128.8
	0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.1	Ampl.	0.1
	200.7	181.0	227.7	501.5	419.2	85.0	181.1	48.9	Sbd box	180.6
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.57300540540E+03		Apriori delay (usec)		-3.57270176659E+03		Resid mbdelay (usec)		-6.76380E-03	+/- 1.7E-04
Sband delay (usec)	-3.57300012284E+03		Apriori clock (usec)		-2.6020557E+01		Resid sbdelay (usec)		-2.98356E-01	+/- 1.3E-03
Phase delay (usec)	-3.57270177075E+03		Apriori clockrate (us/s)		-2.2517302E-07		Resid phdelay (usec)		-4.15343E-06	+/- 5.7E-07
Delay rate (us/s)	2.24326010042E-01		Apriori rate (us/s)		2.24320315735E-01		Resid rate (us/s)		5.69431E-06	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		7.56842907894E-06		Resid phase (deg)		-128.8	+/- 17.7

ph/seg (deg) 44.7 42.5 Search (2048X32) 0.112 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.5 74.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 74.1 25.1 Inc. seg. avg. 0.113 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 50.9 43.7 Inc. frq. avg. 0.145 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 61.0 el 37.1 pa -78.2 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) -1661.023 -549.903 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/fn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/fn.W.148.12BED8



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



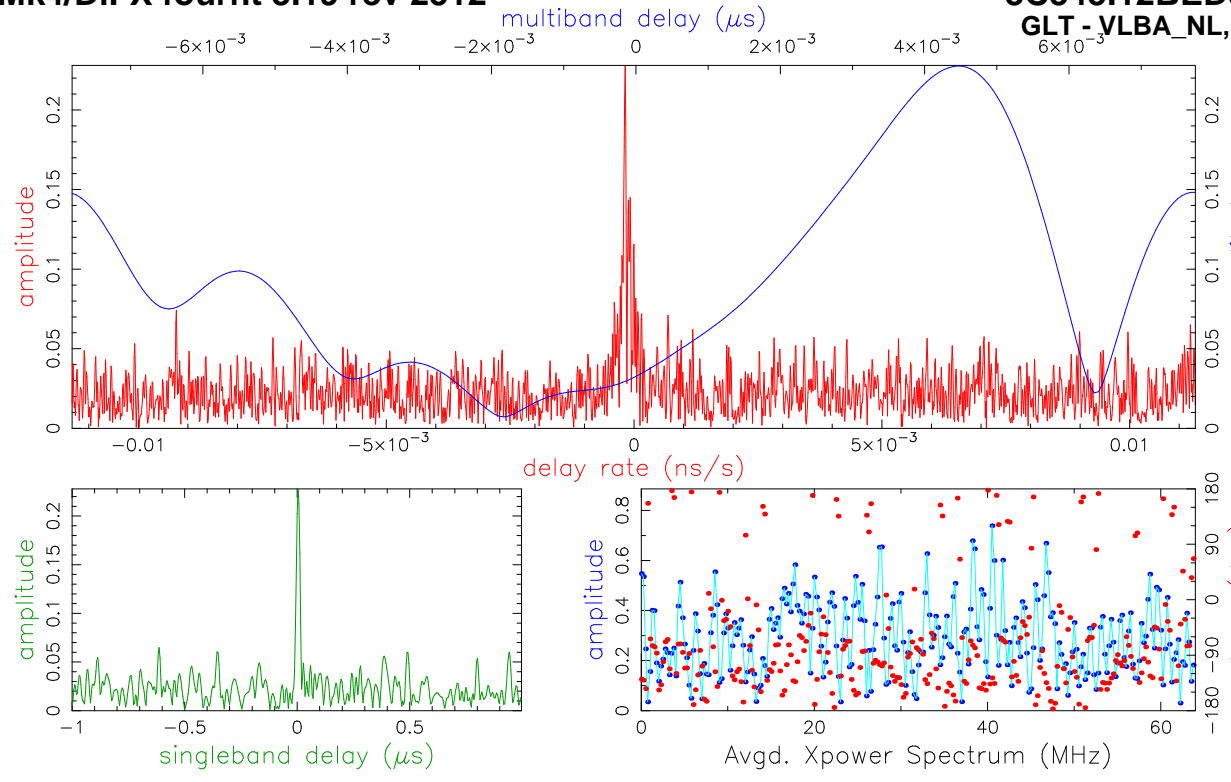
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-90.0	-114.2	-88.3	-101.9	-66.9	-62.6	-61.8	-122.9	Phase	-89.7
	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	Ampl.	0.1
	442.0	273.6	333.7	488.5	265.4	302.7	280.1	138.9	Sbd box	490.1
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:n	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	
n	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-3.57179226518E+03	Apriori delay (usec)	-3.57270176659E+03	Resid mbdelay (usec)	3.25141E-03	+/-	2.0E-04
Sband delay (usec)	-3.57179113259E+03	Apriori clock (usec)	-2.6020557E+01	Resid sbdelay (usec)	9.10634E-01	+/-	1.6E-03
Phase delay (usec)	-3.57270176949E+03	Apriori clockrate (us/s)	-2.2517302E-07	Resid phdelay (usec)	-2.89390E-06	+/-	6.7E-07
Delay rate (us/s)	2.24323538747E-01	Apriori rate (us/s)	2.24320315735E-01	Resid rate (us/s)	3.22301E-06	+/-	2.8E-09
Total phase (deg)	-152.5	Apriori accel (us/s/s)	7.56842907894E-06	Resid phase (deg)	-89.7	+/-	20.7

ph/seg (deg)	RMS 53.7	Theor. 49.5	Amplitude Search (2048X32) 0.098	0.104 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	66.6	86.5	Interp. 0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
ph/frq (deg)	25.5	29.2	Inc. seg. avg. 0.096	0.096	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
amp/frq (%)	39.4	51.0	Inc. frq. avg. 0.098	0.098	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

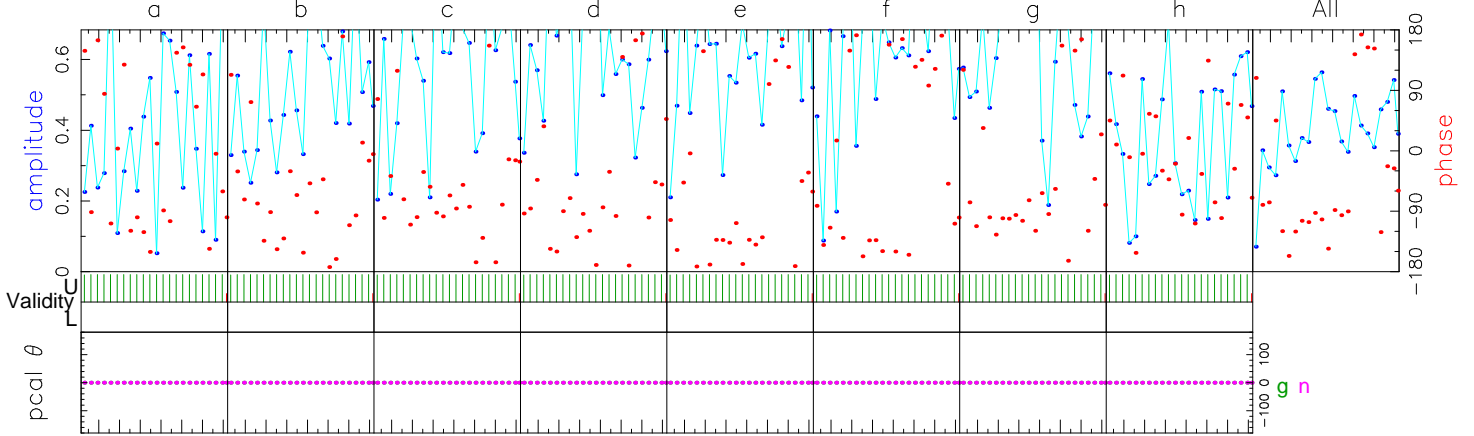
f: az 61.0 el 37.1 pa -78.2 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) -1661.023 -549.903 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/fn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/fn.W.93.12BED8



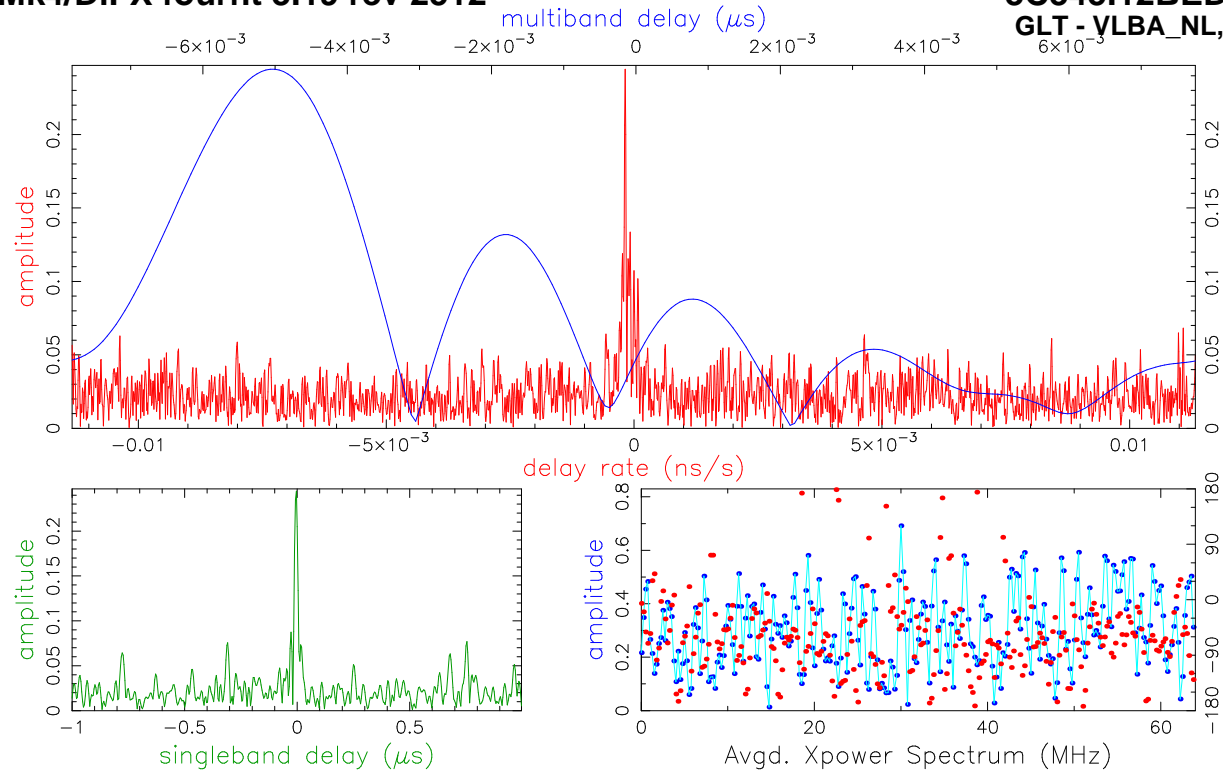
Fringe quality 9
 SNR 12.6
 Int time 410.682
 Amp 0.228
 Phase -112.0
 PFD 7.4e-28
 Delays (us)
 SBD 0.004478
 MBD 0.004501
 Fringe rate (Hz)
 -0.015267
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183008.70
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165609
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 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
	-130.8	-87.5	-85.7	-106.0	-151.1	-173.2	-101.6	-4.5	Phase	-112.0
	0.2	0.3	0.4	0.4	0.3	0.4	0.4	0.2	Ampl.	0.3
	260.4	258.8	257.8	257.7	257.5	258.2	258.3	259.5	Sbd box	258.1
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.56153107446E+01		Apriori delay (usec)		-4.56198118825E+01		Resid mbdelay (usec)		4.50114E-03	+/- 8.6E-05
Sband delay (usec)	-4.56153336325E+01		Apriori clock (usec)		-2.5179216E+01		Resid sbdelay (usec)		4.47825E-03	+/- 6.8E-04
Phase delay (usec)	-4.56198154954E+01		Apriori clockrate (us/s)		-5.9223514E-08		Resid phdelay (usec)		-3.61289E-06	+/- 2.9E-07
Delay rate (us/s)	-5.65922466154E-01		Apriori rate (us/s)		-5.65922288916E-01		Resid rate (us/s)		-1.77239E-07	+/- 1.2E-09
Total phase (deg)			Apriori accel (us/s/s)		2.22859925616E-05		Resid phase (deg)		-112.0	+/- 9.1

ph/seg (deg) 67.6 21.8 Search (2048X32) 0.226 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 88.7 38.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 55.7 12.8 Inc. seg. avg. 0.372 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 46.0 22.4 Inc. frq. avg. 0.296 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 g: az 142.5 el 51.0 pa -10.6 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) 4259.942 3497.805 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/gn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/gn.W.105.12BED8

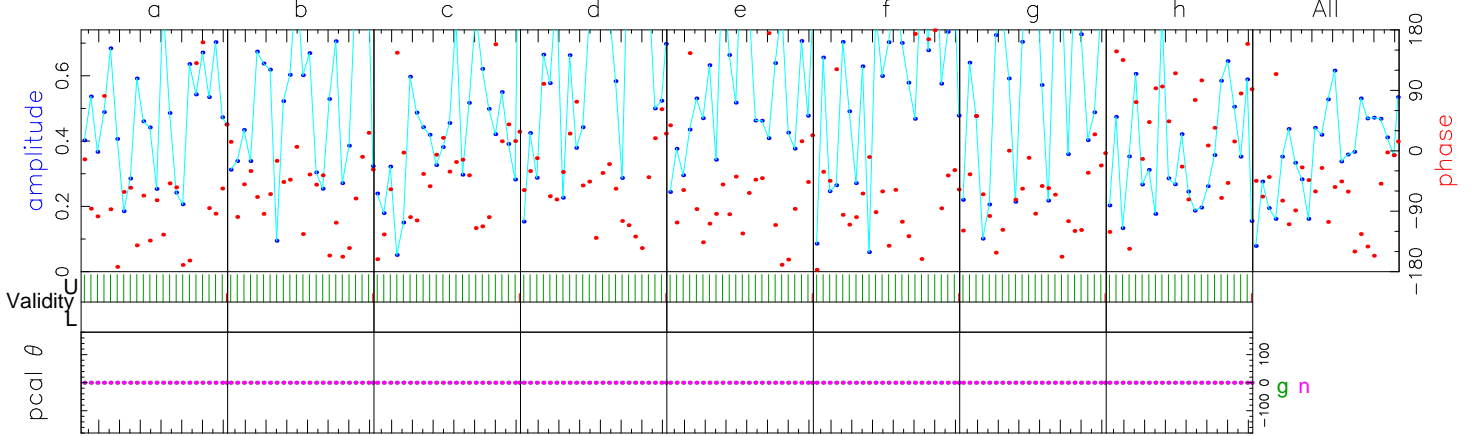


Fringe quality 9

SNR 13.7
Int time 410.724
Amp 0.247
Phase -72.7
PFD 6.9e-34
Delays (us)
SBD -0.005140
MBD -0.005068
Fringe rate (Hz)
-0.015286
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

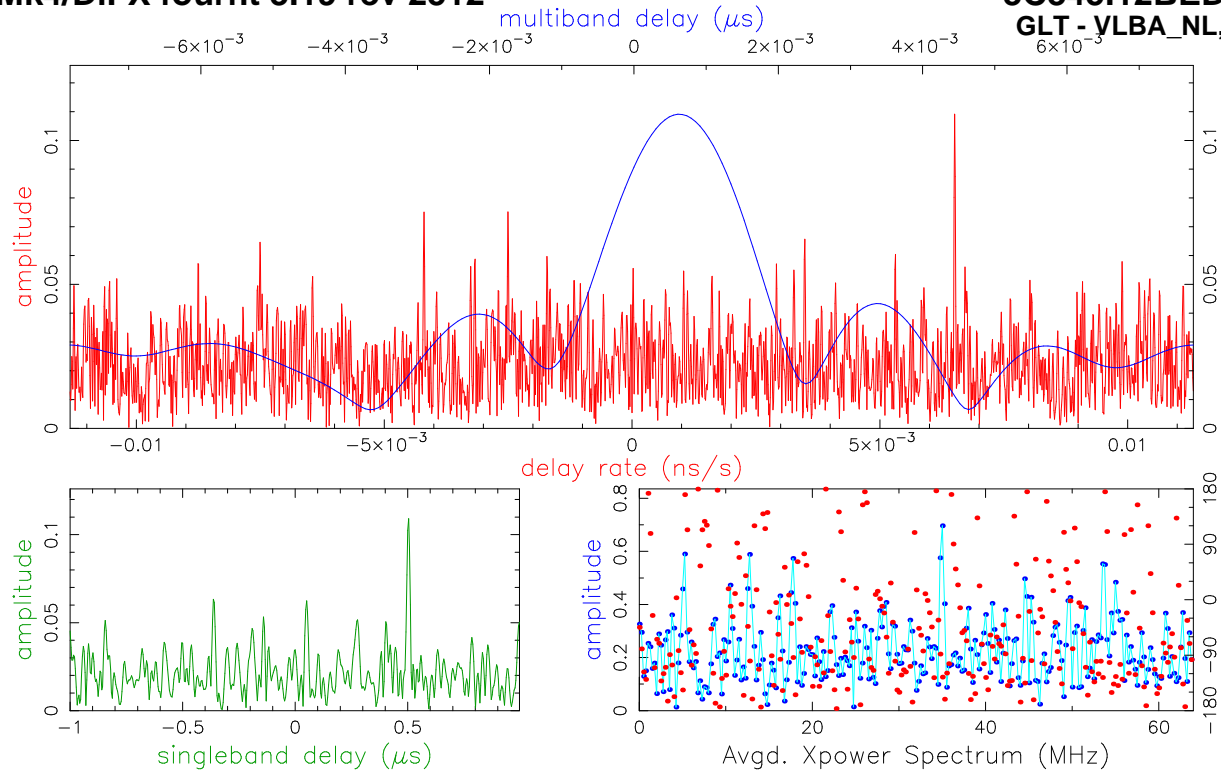
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165615
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-106.7	-55.8	-49.4	-54.3	-88.0	-101.0	-70.8	55.5	Phase	-72.7
	0.3	0.3	0.2	0.3	0.3	0.3	0.4	0.1	Ampl.	0.3
	258.3	256.2	254.2	255.7	255.2	256.3	256.0	258.8	Sbd box	255.7
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.56248799946E+01		Apriori delay (usec)		-4.56198118825E+01		Resid mbdelay (usec)		-5.06811E-03	+/- 7.9E-05
Sband delay (usec)	-4.56249521325E+01		Apriori clock (usec)		-2.5179216E+01		Resid sbdelay (usec)		-5.14025E-03	+/- 6.3E-04
Phase delay (usec)	-4.56198142271E+01		Apriori clockrate (us/s)		-5.9223514E-08		Resid phdelay (usec)		-2.34459E-06	+/- 2.7E-07
Delay rate (us/s)	-5.65922466366E-01		Apriori rate (us/s)		-5.65922288916E-01		Resid rate (us/s)		-1.77450E-07	+/- 1.1E-09
Total phase (deg)			Apriori accel (us/s/s)		2.22859925616E-05		Resid phase (deg)		-72.7	+/- 8.4

ph/seg (deg) 57.6 20.1 Search (2048X32) 0.242 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 72.5 35.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 57.4 11.8 Inc. seg. avg. 0.348 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 35.4 20.7 Inc. frq. avg. 0.279 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
g: az 142.5 el 51.0 pa -10.6 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) 4259.942 3497.805 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/gn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/gn.W.129.12BED8

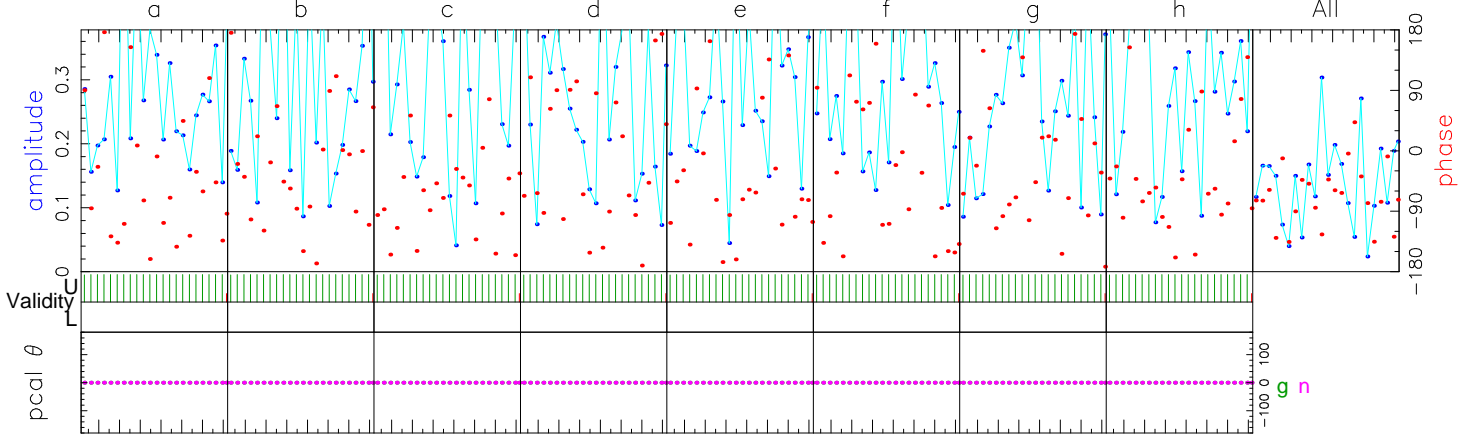


Fringe quality 0

SNR 6.1
Int time 410.682
Amp 0.126
Phase -72.3
PFD 2.8e-01
Delays (us)
SBD 0.503116
MBD 0.000626
Fringe rate (Hz) 0.562006
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

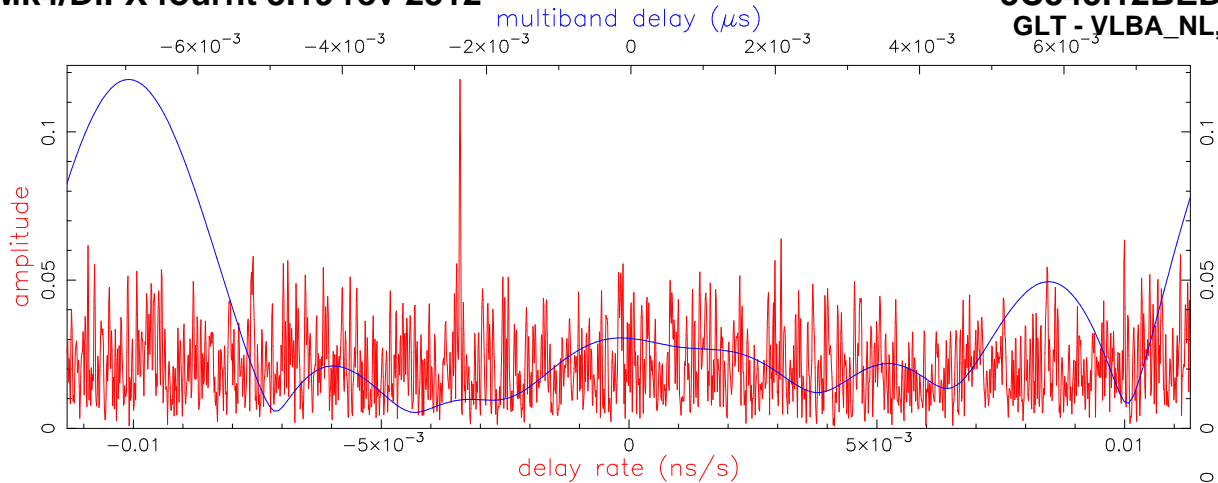
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build 2020:072:124544
2020:086:165619
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

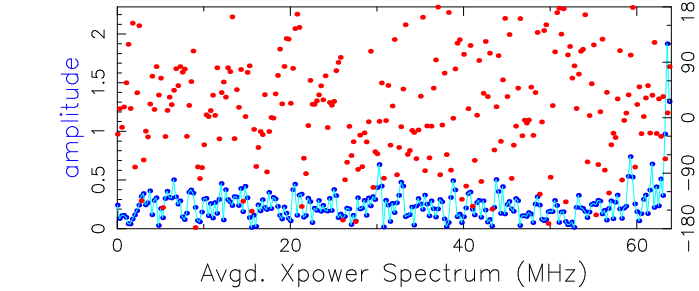
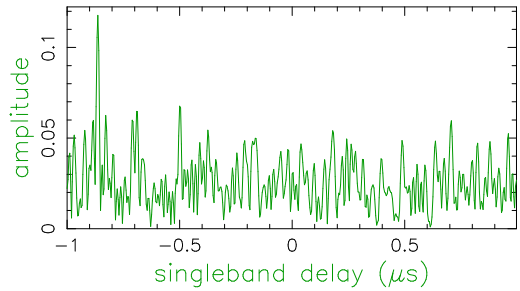


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-85.0	-58.2	-71.9	-75.9	-84.6	-51.8	-73.8	-69.1	Phase	-72.3
	0.1	0.2	0.2	0.0	0.2	0.0	0.1	0.1	Ampl.	0.1
	109.8	41.9	386.1	132.4	166.7	511.6	208.9	40.2	Sbd box	385.8
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
g	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)	-4.51191859119E+01		Apriori delay (usec)		-4.56198118825E+01		Resid mbdelay (usec)		6.25971E-04	+/- 1.8E-04
Sband delay (usec)	-4.51166958825E+01		Apriori clock (usec)		-2.5179216E+01		Resid sbdelay (usec)		5.03116E-01	+/- 1.4E-03
Phase delay (usec)	-4.56198142142E+01		Apriori clockrate (us/s)		-5.9223514E-08		Resid phdelay (usec)		-2.33172E-06	+/- 6.1E-07
Delay rate (us/s)	-5.65915764587E-01		Apriori rate (us/s)		-5.65922288916E-01		Resid rate (us/s)		6.52433E-06	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		2.22859925616E-05		Resid phase (deg)		-72.3	+/- 18.9

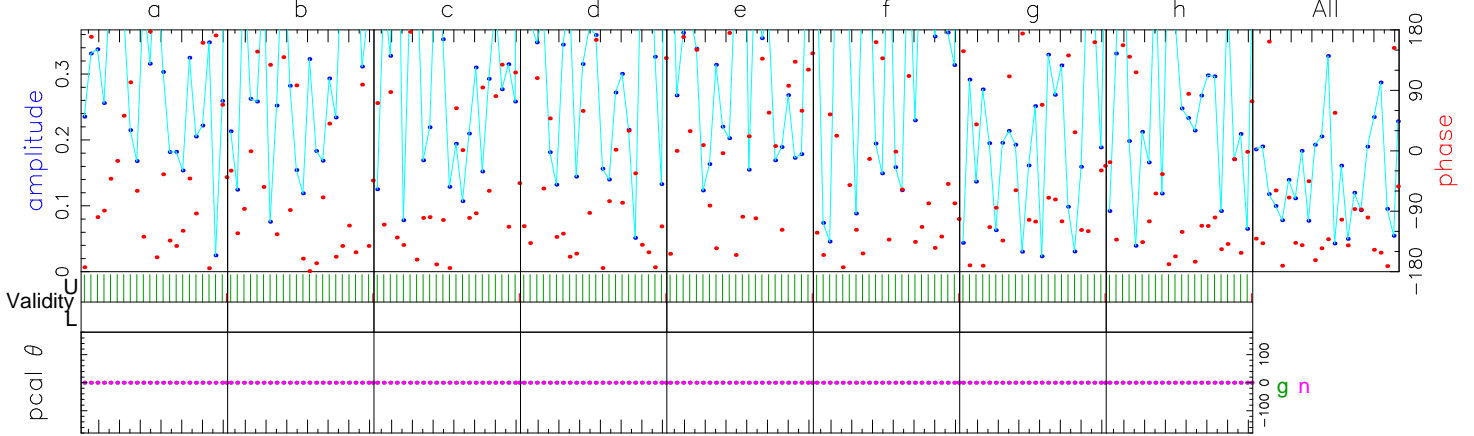
ph/seg (deg) 45.9 45.3 Search (2048X32) 0.103 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 68.5 79.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 12.6 26.7 Inc. seg. avg. 0.123 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 47.0 46.6 Inc. frq. avg. 0.115 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 g: az 142.5 el 51.0 pa -10.6 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) 4259.942 3497.805 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/gn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/gn.W.147.12BED8



Fringe quality 0
SNR 6.5
Int time 410.724
Amp 0.122
Phase -130.6
PFD 1.8e-02
Delays (us)
SBD -0.863748
MBD -0.006943
Fringe rate (Hz)
-0.293712
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165623
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

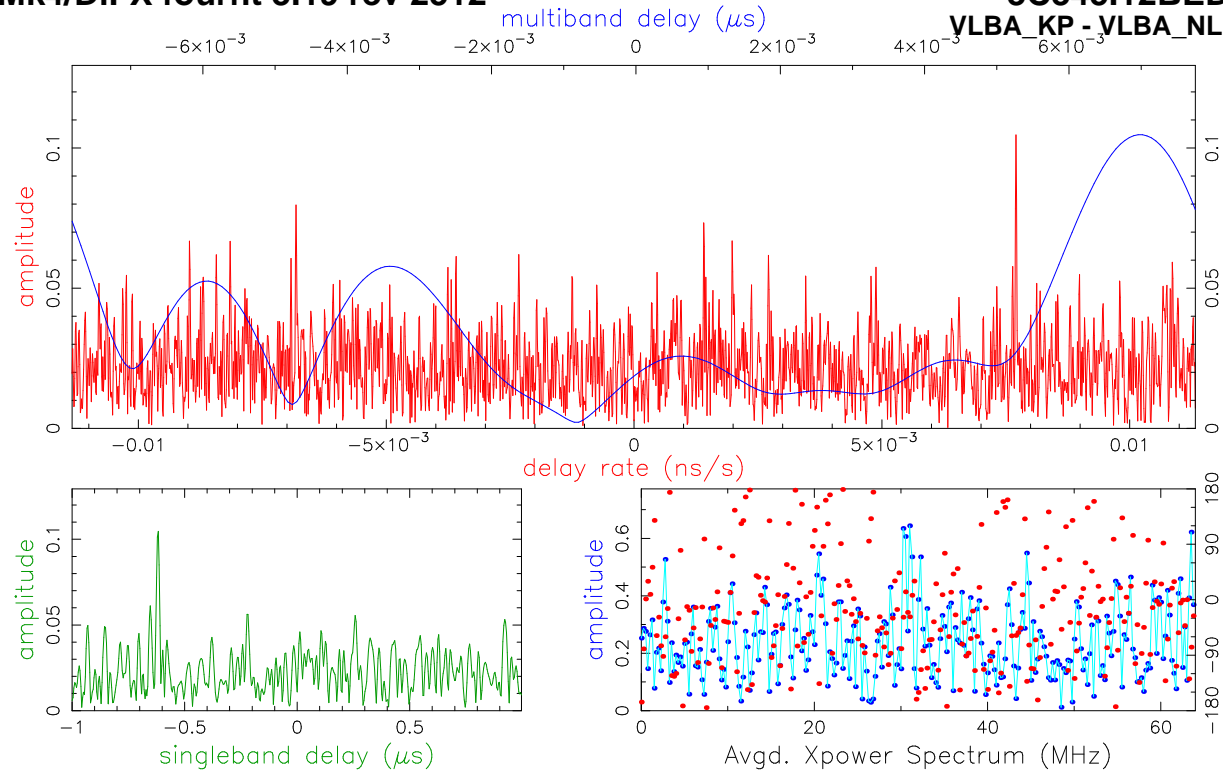


Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



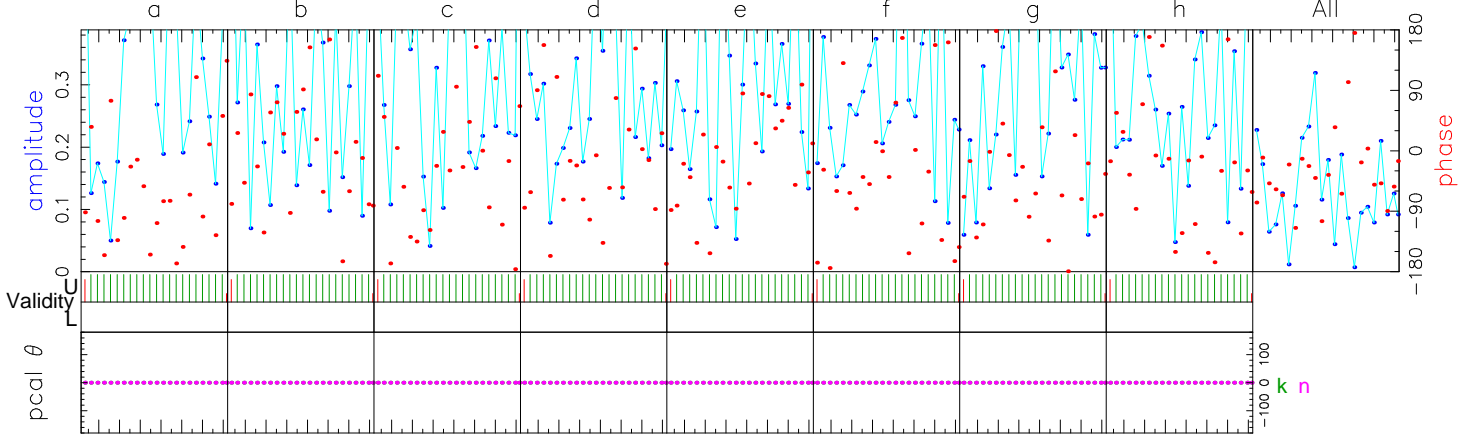
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-111.9	-130.7	-139.0	-136.5	-175.7	-109.7	-118.5	-139.3	Phase	-130.6
	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	Ampl.	0.1
	502.3	420.8	53.9	503.3	401.8	36.5	101.9	129.2	Sbd box	35.9
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.64861301031E+01		Apriori delay (usec)		-4.56198118825E+01		Resid mbdelay (usec)		-6.94322E-03	+/- 1.7E-04
Sband delay (usec)	-4.64835603825E+01		Apriori clock (usec)		-2.5179216E+01		Resid sbdelay (usec)		-8.63748E-01	+/- 1.3E-03
Phase delay (usec)	-4.56198160956E+01		Apriori clockrate (us/s)		-5.9223514E-08		Resid phdelay (usec)		-4.21307E-06	+/- 5.7E-07
Delay rate (us/s)	-5.65925698617E-01		Apriori rate (us/s)		-5.65922288916E-01		Resid rate (us/s)		-3.40970E-06	+/- 2.4E-09
Total phase (deg)	-345.1		Apriori accel (us/s/s)		2.22859925616E-05		Resid phase (deg)		-130.6	+/- 17.5

ph/seg (deg) 55.7 42.0 Search (2048X32) 0.116 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 68.1 73.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 22.9 24.8 Inc. seg. avg. 0.121 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 23.5 43.3 Inc. frq. avg. 0.117 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
g: az 142.5 el 51.0 pa -10.6 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) 4259.942 3497.805 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/gn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/gn.W.165.12BED8



Fringe quality 0
SNR 5.9
Int time 407.728
Amp 0.129
Phase -43.6
PFD 6.8e-01
Delays (us)
SBD -0.618574
MBD 0.006949
Fringe rate (Hz) 0.664334
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165627
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

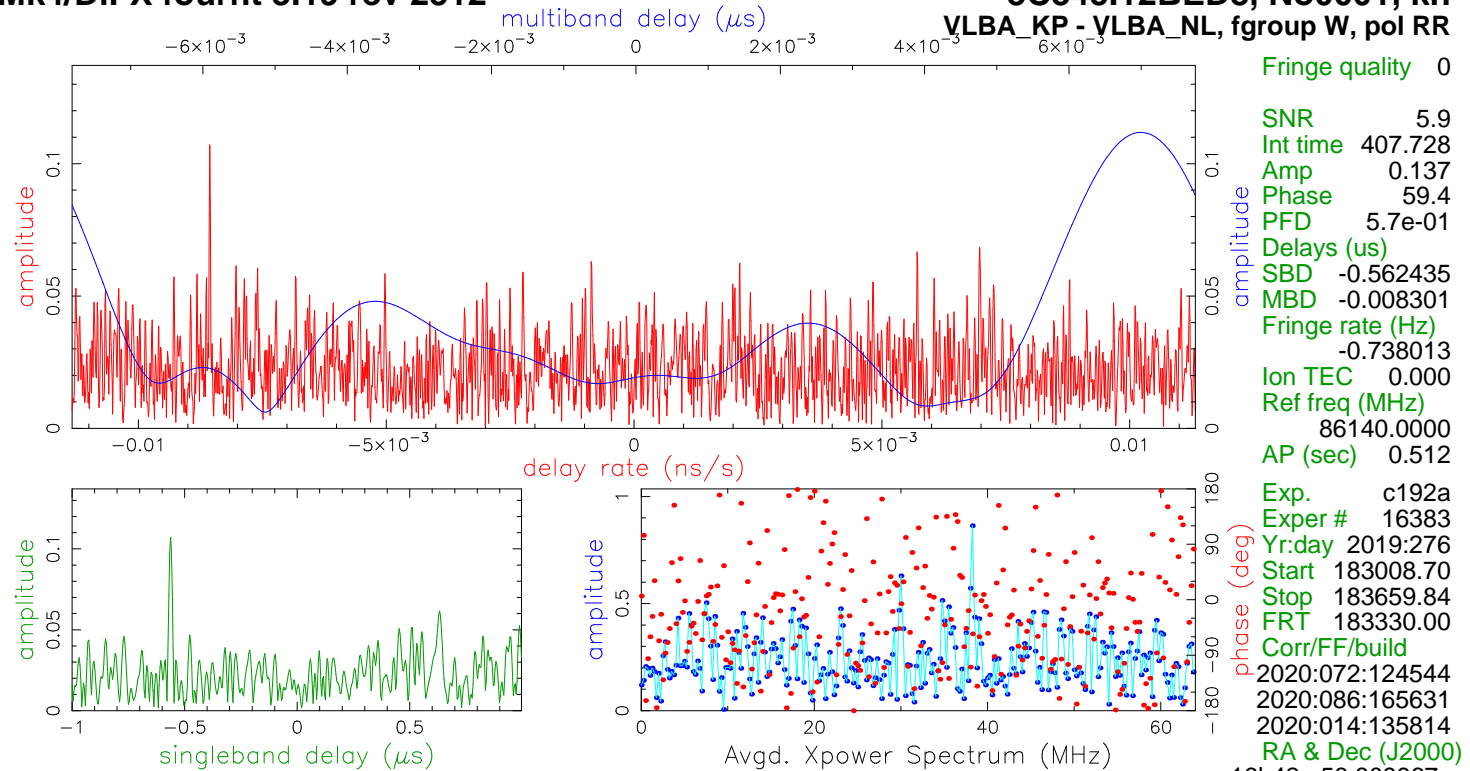


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-86.2	-32.0	-19.9	-33.3	-1.7	-91.8	-63.4	-37.8	Phase	-43.6
	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.1	Ampl.	0.1
	87.4	178.9	297.6	17.4	269.2	438.3	271.6	212.7	Sbd box	98.6
U/L	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.11473733217E+03		Apriori delay (usec)		-5.11411928081E+03		Resid mbdelay (usec)		6.94863E-03	+/- 1.9E-04
Sband delay (usec)	-5.11473785481E+03		Apriori clock (usec)		-2.6877258E+01		Resid sbdelay (usec)		-6.18574E-01	+/- 1.5E-03
Phase delay (usec)	-5.11411928221E+03		Apriori clockrate (us/s)		-3.2880250E-07		Resid phdelay (usec)		-1.40518E-06	+/- 6.3E-07
Delay rate (us/s)	2.61983552029E-01		Apriori rate (us/s)		2.61975839775E-01		Resid rate (us/s)		7.71225E-06	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		1.71830403617E-05		Resid phase (deg)		-43.6	+/- 19.5

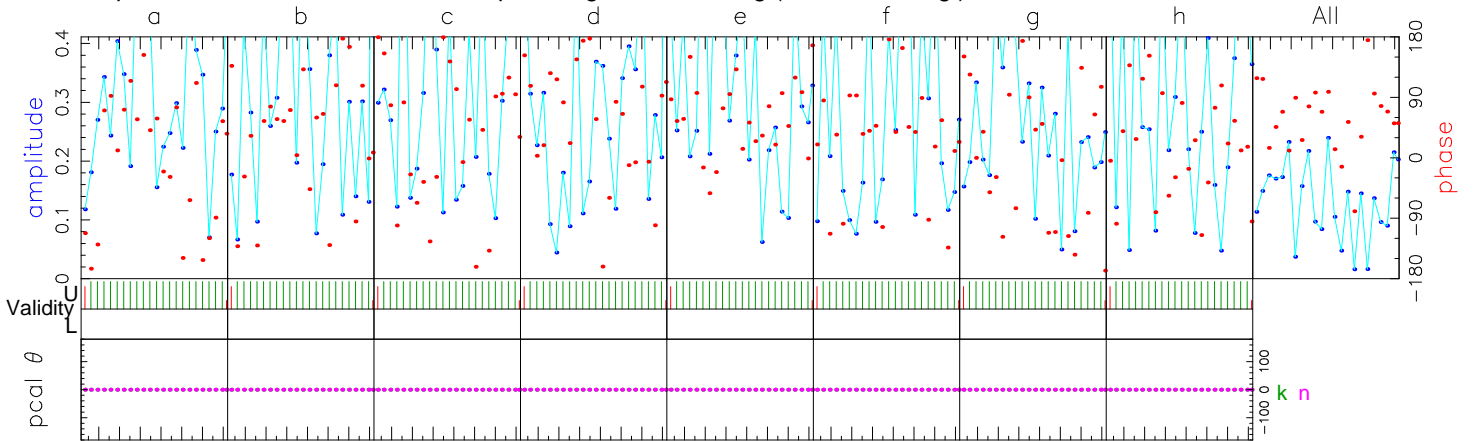
ph/seg (deg) 55.0 46.8 Amplitude 0.129 +/- 0.022 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 75.0 81.8 Search (2048X32) 0.100 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 34.5 27.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 30.1 48.2 Inc. seg. avg. 0.118 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 60.1 el 32.1 pa -73.4 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) -1924.821 216.344 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/kn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/kn.W.174.12BED8

Mk4/DiFX fourfit 3.19 rev 2512

3C345.12BED8, No0001, kn
VLBA_KP - VLBA_NL, fgroup W, pol RR



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



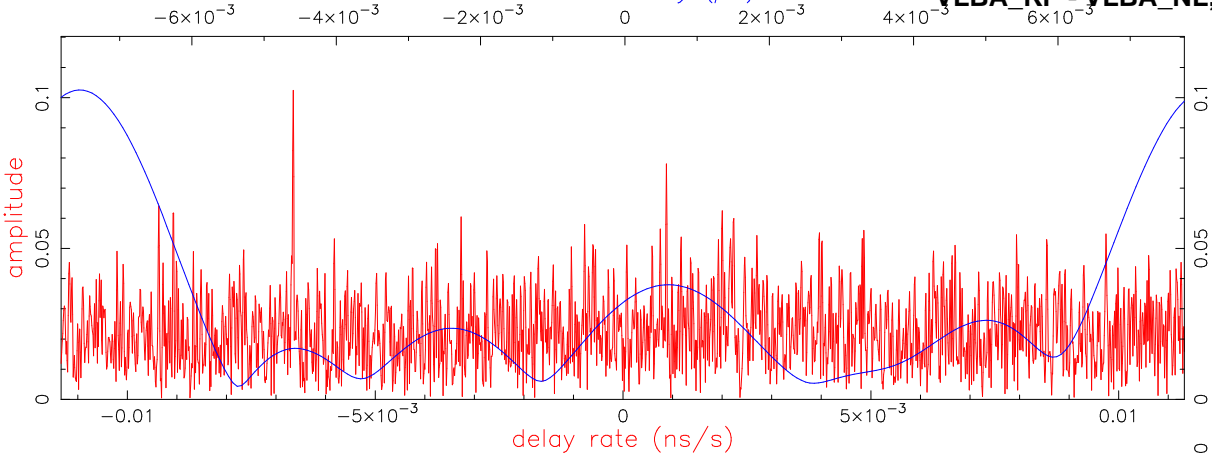
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
64.1	67.2	95.2	90.2	51.3	56.2	-38.3	26.3	26.3	Phase	59.4
0.1	0.2	0.1	0.1	0.3	0.2	0.1	0.2	0.2	Ampl.	0.1
9.5	219.2	110.5	140.8	113.2	74.5	270.2	187.3	187.3	Sbd box	113.0
U/L	801/0	801/0	801/0	801/0	801/0	801/0	802/0	802/0	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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.11467445659E+03		Apriori delay (usec)	-5.11411928081E+03	Resid mbdelay (usec)	-8.30078E-03	+/-	1.8E-04		
Sband delay (usec)	-5.11468171606E+03		Apriori clock (usec)	-2.6877258E+01	Resid sbdelay (usec)	-5.62435E-01	+/-	1.5E-03		
Phase delay (usec)	-5.11411927889E+03		Apriori clockrate (us/s)	-3.2880250E-07	Resid phdelay (usec)	1.91391E-06	+/-	6.2E-07		
Delay rate (us/s)	2.61967272175E-01		Apriori rate (us/s)	2.61975839775E-01	Resid rate (us/s)	-8.56760E-06	+/-	2.6E-09		
Total phase (deg)		-246.2	Apriori accel (us/s/s)	1.71830403617E-05	Resid phase (deg)	59.4	+/-	19.4		

	RMS	Theor.	Amplitude	0.137 +/- 0.023	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	51.6	46.4	Search (2048X32)	0.110	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	65.0	81.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	46.6	27.4	Inc. seg. avg.	0.127	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	50.8	47.8	Inc. frq. avg.	0.135	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

k: az 60.1 el 32.1 pa -73.4 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) -1924.821 216.344 simultaneous interpolator

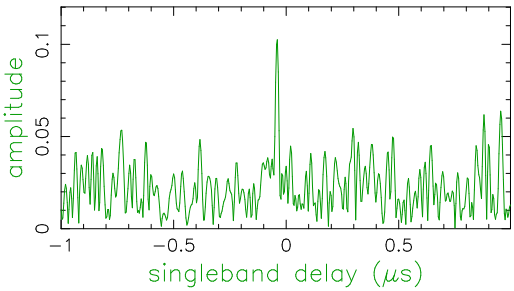
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/kn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/kn.W.196.12BED8

multiband delay (μs)

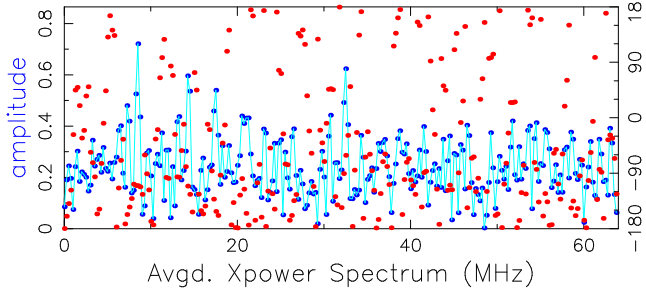


Fringe quality 0

SNR 5.7
Int time 407.728
Amp 0.120
Phase -139.0
PFD 9.1e-01
Delays (us)
SBD -0.040541
MBD -0.007608
Fringe rate (Hz)
-0.573977
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

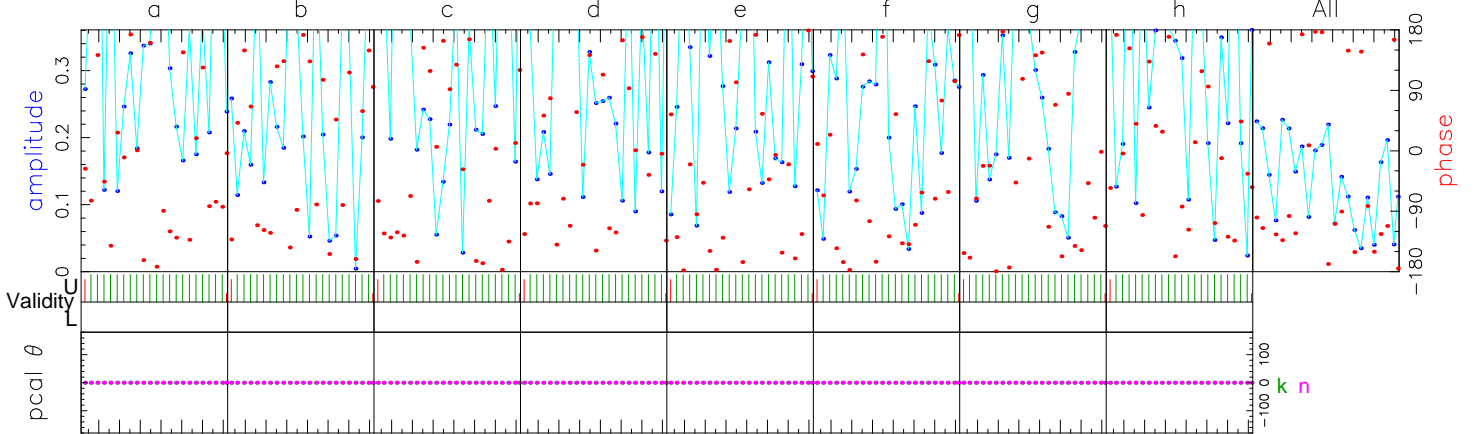


delay rate (ns/s)



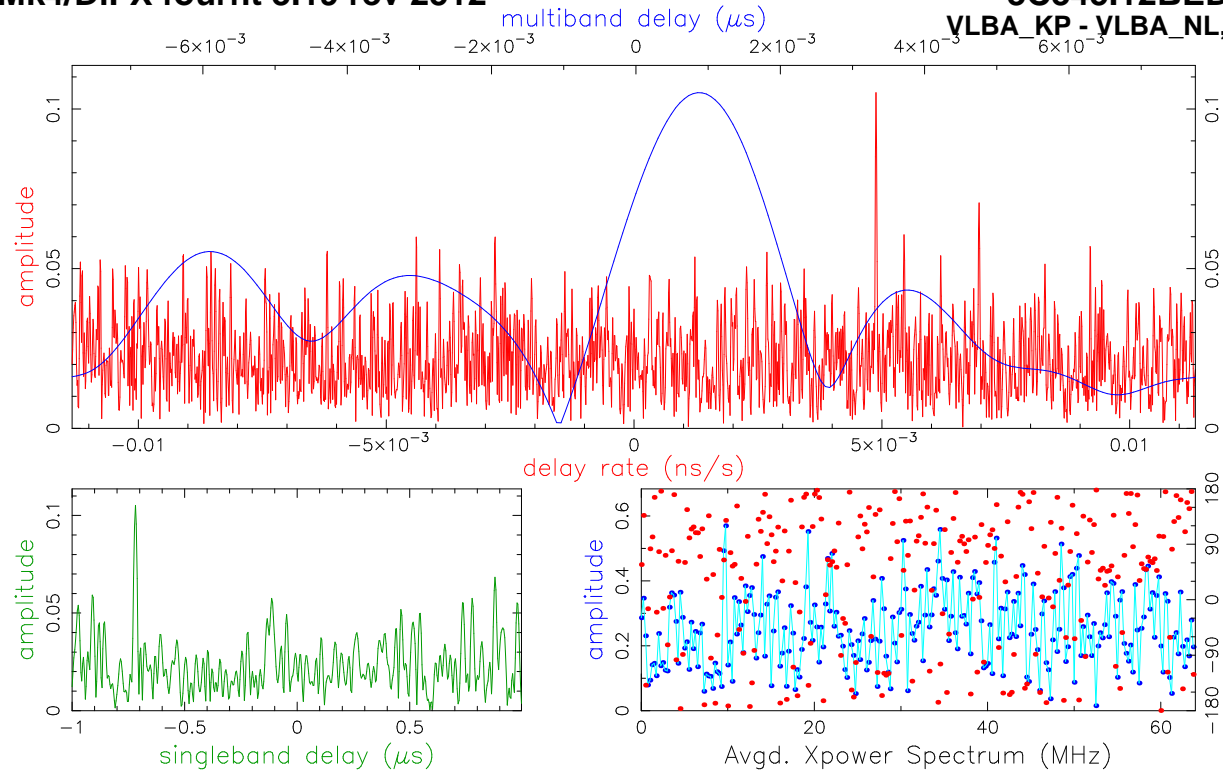
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165636
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 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
	-130.7	-157.6	-144.3	-149.3	-118.9	-161.2	-122.8	-125.4	Phase	-139.0
	0.2	0.1	0.2	0.1	0.1	0.1	0.0	0.0	Ampl.	0.1
	246.9	339.3	501.1	200.5	11.9	293.2	62.5	235.4	Sbd box	246.6
U/L	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	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	Manl 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)	-5.11415813862E+03		Apriori delay (usec)		-5.11411928081E+03		Resid mbdelay (usec)		-7.60781E-03	+/- 1.9E-04
Sband delay (usec)	-5.11415982231E+03		Apriori clock (usec)		-2.6877258E+01		Resid sbdelay (usec)		-4.05415E-02	+/- 1.5E-03
Phase delay (usec)	-5.11411928529E+03		Apriori clockrate (us/s)		-3.2880250E-07		Resid phdelay (usec)		-4.48384E-06	+/- 6.4E-07
Delay rate (us/s)	2.61969176476E-01		Apriori rate (us/s)		2.61975839775E-01		Resid rate (us/s)		-6.66330E-06	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		1.71830403617E-05		Resid phase (deg)		-139.0	+/- 20.0

ph/seg (deg) 51.4 47.9 Search (2048X32) 0.101 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 70.5 83.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 17.8 28.2 Inc. seg. avg. 0.119 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.9 49.3 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 60.1 el 32.1 pa -73.4 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) -1924.821 216.344 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/kn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/kn.W.217.12BED8

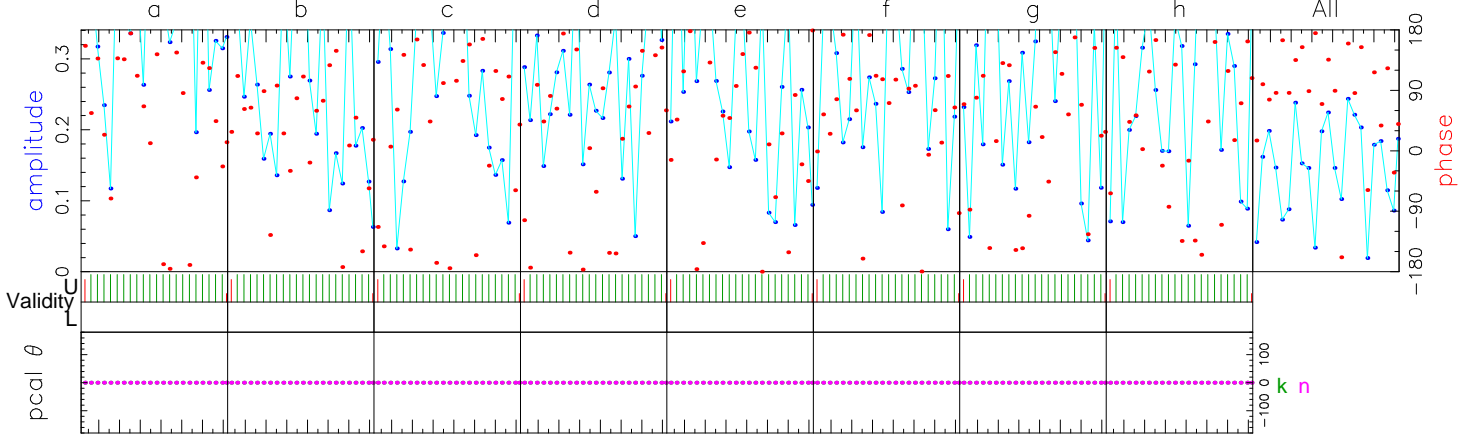


Fringe quality 0

SNR 5.8
Int time 407.728
Amp 0.114
Phase 109.8
PFD 8.0e-01
Delays (us)
SBD -0.718566
MBD 0.000880
Fringe rate (Hz)
0.421348
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165640
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

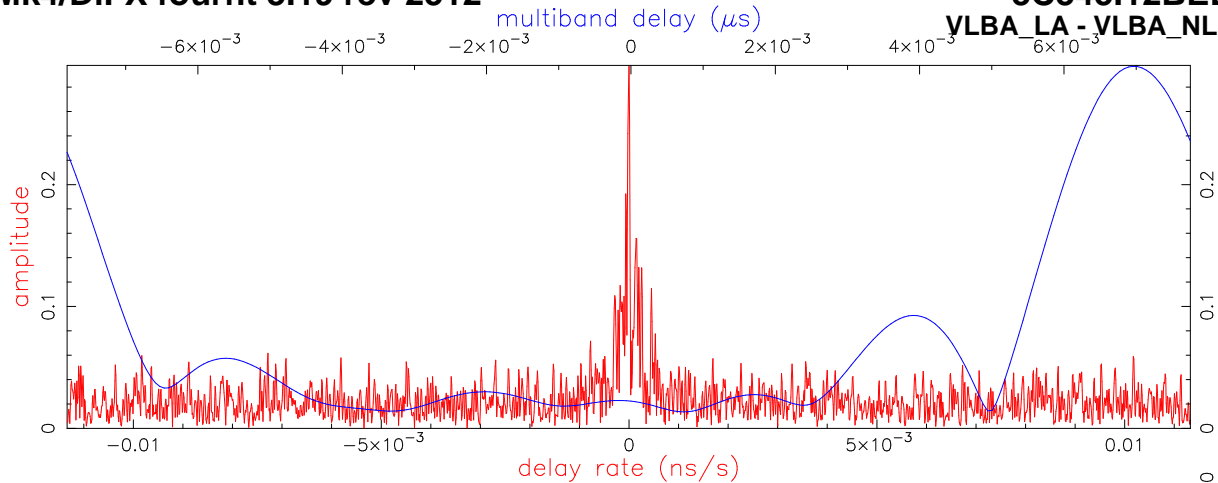
Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	801/0	801/0	801/0	801/0	801/0	801/0	802/0	802/0		
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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-5.11483715068E+03								8.80128E-04	+/- 1.9E-04
Sband delay (usec)	-5.11483784631E+03								-7.18566E-01	+/- 1.5E-03
Phase delay (usec)	-5.11411927727E+03								3.53952E-06	+/- 6.4E-07
Delay rate (us/s)	2.61980731209E-01								4.89143E-06	+/- 2.7E-09
Total phase (deg)			-195.8						109.8	+/- 19.7
	RMS	Theor.	Amplitude	0.114 +/- 0.020						
ph/seg (deg)	64.3	47.3	Search (2048X32)	0.103						
amp/seg (%)	73.9	82.5	Interp.	0.000						
ph/frq (deg)	34.1	27.9	Inc. seg. avg.	0.119						
amp/frq (%)	43.5	48.7	Inc. frq. avg.	0.118						
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	0.00			

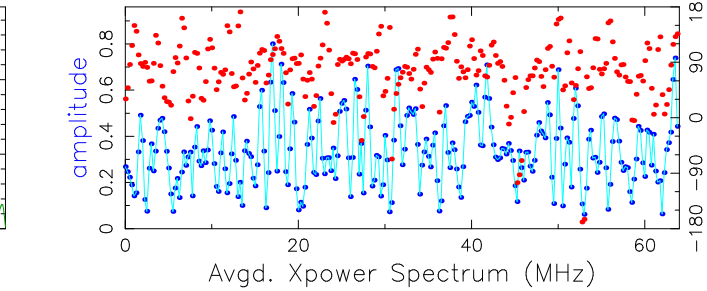
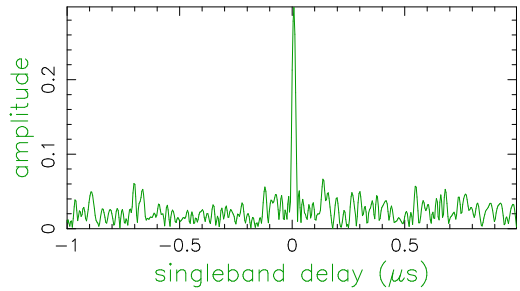
k: az 60.1 el 32.1 pa -73.4 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) -1924.821 216.344 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/kn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/kn.W.235.12BED8



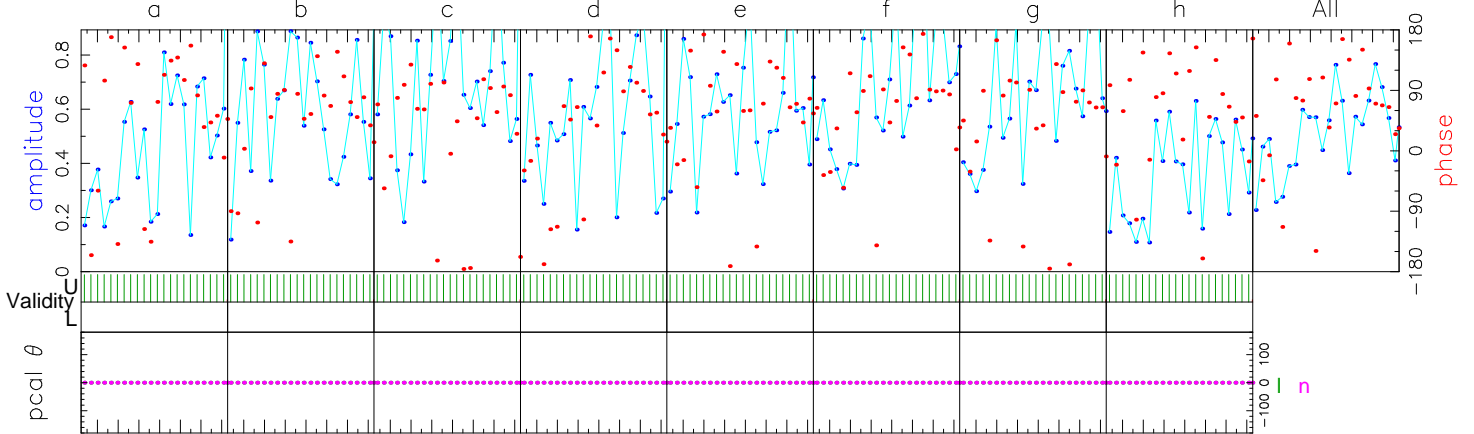
Fringe quality 9

SNR 16.4
 Int time 406.934
 Amp 0.298
 Phase 86.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.007174
 MBD 0.006960
 Fringe rate (Hz) 0.000081
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512



Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183012.80
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165629
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

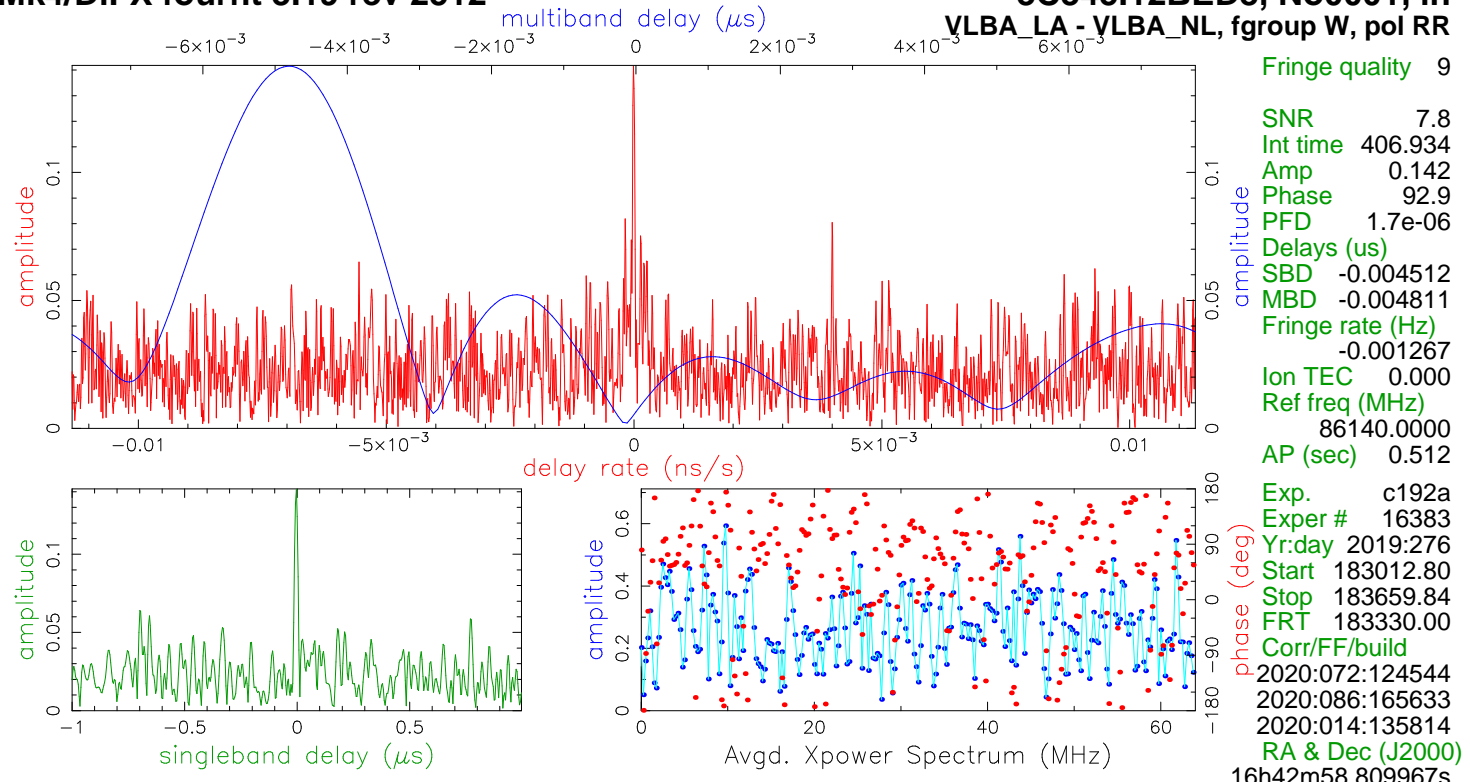


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

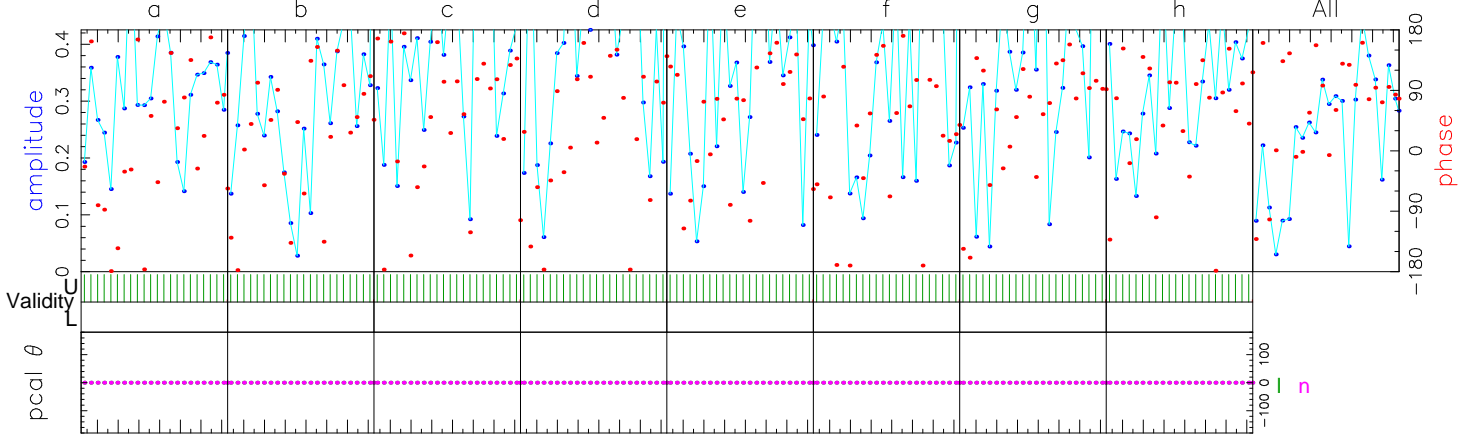
Group delay (usec)(sbd)	-3.38737451760E+03	Apriori delay (usec)	-3.38738147779E+03	Resid mbdelay (usec)	6.96019E-03	+/-	6.6E-05
Sband delay (usec)	-3.38737430404E+03	Apriori clock (usec)	-2.7215591E+01	Resid sbdelay (usec)	7.17375E-03	+/-	5.2E-04
Phase delay (usec)	-3.38738147501E+03	Apriori clockrate (us/s)	-4.8569552E-07	Resid phdelay (usec)	2.77688E-06	+/-	2.2E-07
Delay rate (us/s)	1.87942733924E-01	Apriori rate (us/s)	1.87942732980E-01	Resid rate (us/s)	9.44507E-10	+/-	9.6E-10
Total phase (deg)	-92.6	Apriori accel (us/s/s)	1.19919343883E-05	Resid phase (deg)	86.1	+/-	7.0

ph/seg (deg)	65.9	RMS	16.7	Theor.	0.298 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	86.3	Search (2048X32)	0.295	Amplitude	0.298 +/- 0.018	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	9.6	Interp.	0.000	Search (2048X32)	0.295	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	25.6	Inc. seg. avg.	0.488	Interp.	0.000	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
		Inc. frq. avg.	0.296	Inc. seg. avg.	0.488	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

l: az 63.9 el 37.8 pa -72.0 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) -1381.185 246.839 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/In..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/In.W.186.12BED8

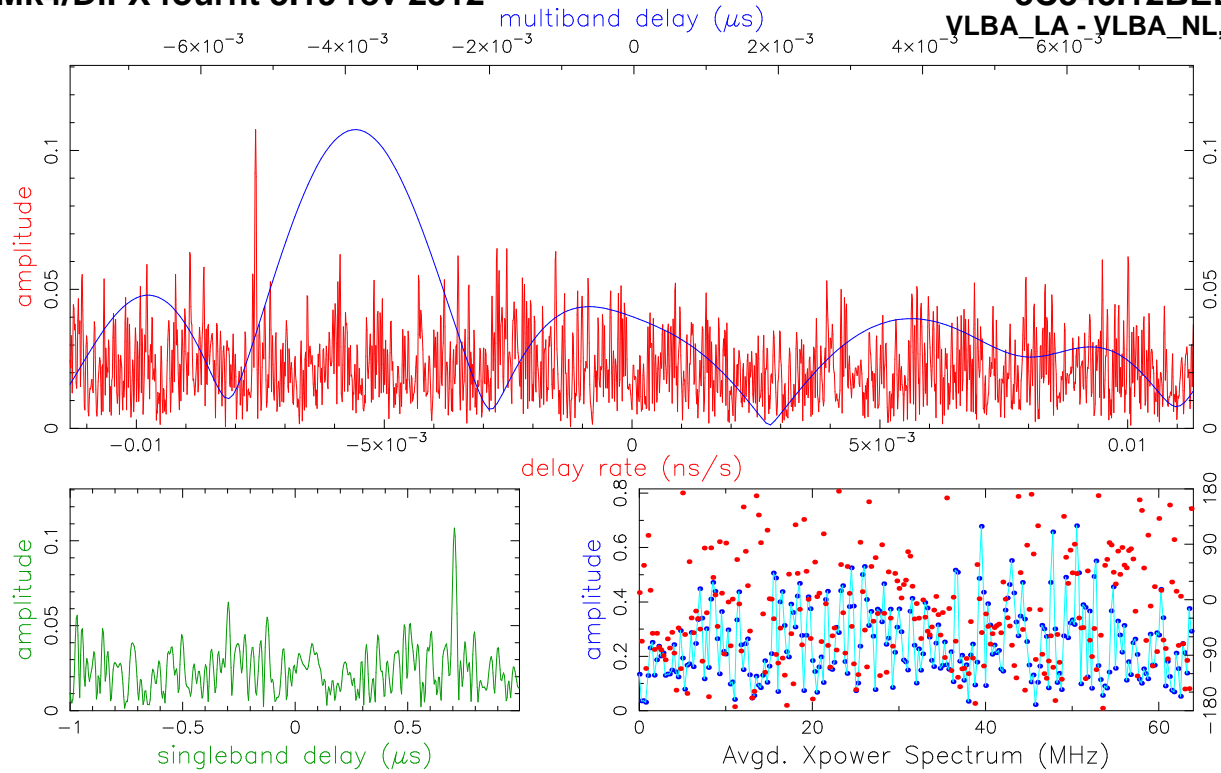


Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		-3.38738628915E+03				-3.38738147779E+03			Resid mbdelay (usec)	-4.81137E-03 +/- 1.4E-04
Sband delay (usec)		-3.38738598979E+03				-2.7215591E+01			Resid sbdelay (usec)	-4.51200E-03 +/- 1.1E-03
Phase delay (usec)		-3.38738147479E+03				-4.8569552E-07			Resid phdelay (usec)	2.99484E-06 +/- 4.7E-07
Delay rate (us/s)		1.87942718269E-01				1.87942732980E-01			Resid rate (us/s)	-1.47104E-08 +/- 2.0E-09
Total phase (deg)			-85.9			1.19919343883E-05			Resid phase (deg)	92.9 +/- 14.6

	RMS	Theor.	Amplitude	0.142 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	69.5	35.1	Search (2048X32)	0.139	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	105.3	61.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	18.5	20.7	Inc. seg. avg.	0.200	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	41.1	36.2	Inc. frq. avg.	0.137	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

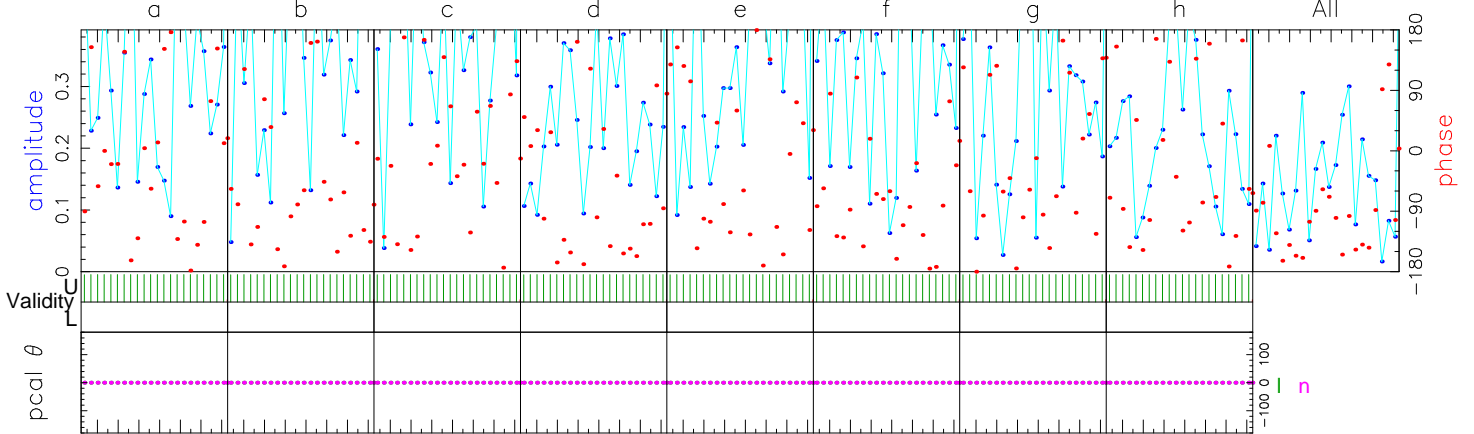


Fringe quality 0

SNR 5.9
 Int time 406.934
 Amp 0.131
 Phase -118.5
 PFD 5.2e-01
 Delays (us)
 SBD 0.707720
 MBD -0.003857
 Fringe rate (Hz)
 -0.655451
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

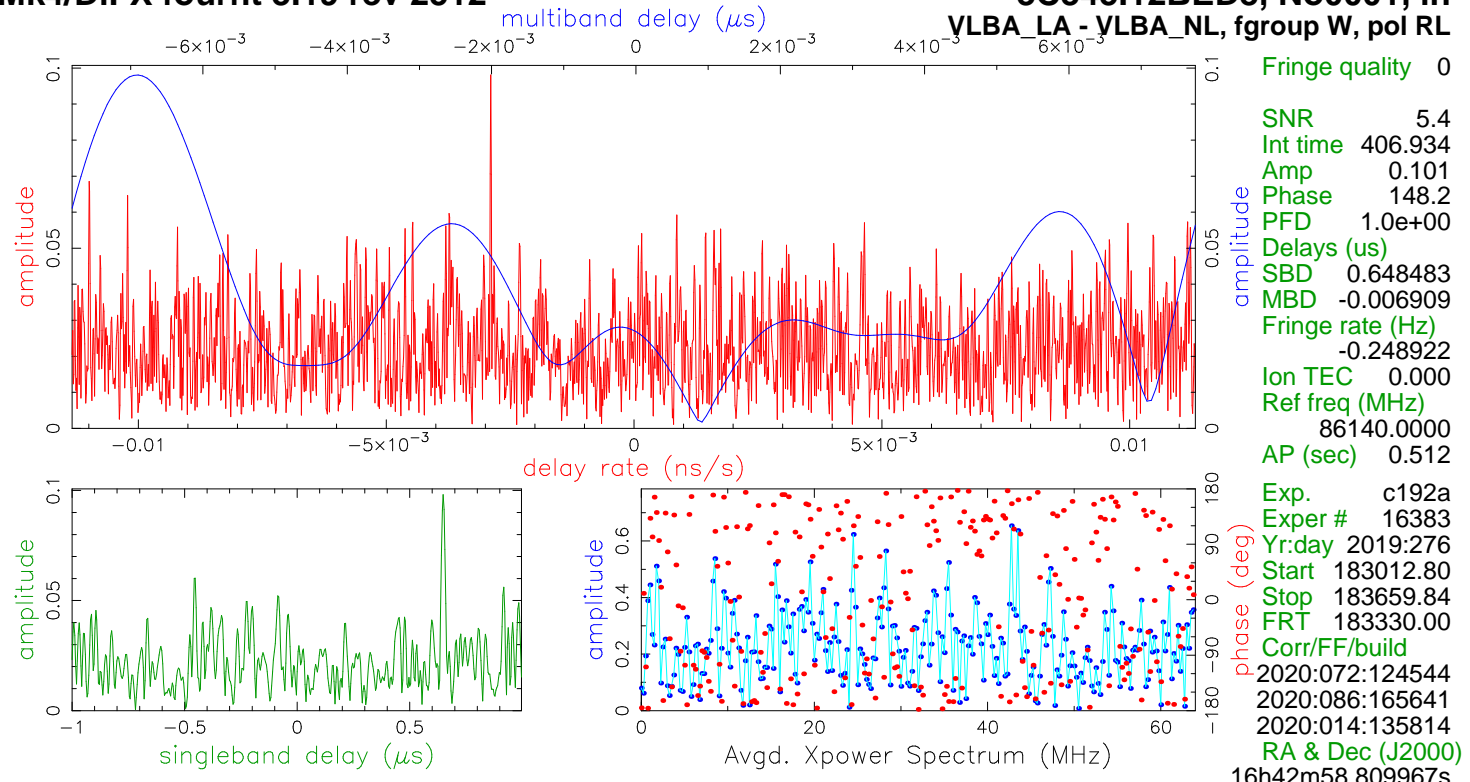
Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183012.80
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165637
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

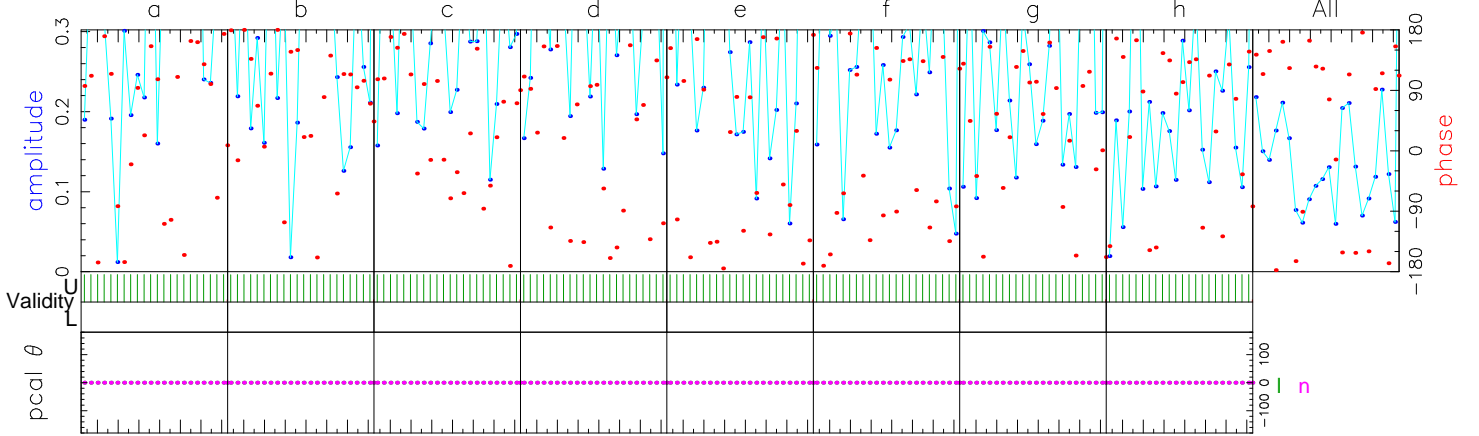


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-109.5	-116.0	-133.8	-128.9	-164.8	-103.7	-96.6	-132.3	Phase	-118.5
	0.1	0.3	0.0	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1
	41.7	438.2	223.5	507.5	453.2	438.1	258.2	283.9	Sbd box	438.2
U/L	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	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)	-3.38666658482E+03		Apriori delay (usec)		-3.38738147779E+03		Resid mbdelay (usec)		-3.85703E-03	+/- 1.8E-04
Sband delay (usec)	-3.38667375804E+03		Apriori clock (usec)		-2.7215591E+01		Resid sbdelay (usec)		7.07720E-01	+/- 1.4E-03
Phase delay (usec)	-3.38738148161E+03		Apriori clockrate (us/s)		-4.8569552E-07		Resid phdelay (usec)		-3.82201E-06	+/- 6.2E-07
Delay rate (us/s)	1.87935123849E-01		Apriori rate (us/s)		1.87942732980E-01		Resid rate (us/s)		-7.60913E-06	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		1.19919343883E-05		Resid phase (deg)		-118.5	+/- 19.3

ph/seg (deg) 57.5 46.2 Search (2048X32) 0.105 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 83.7 80.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 24.0 27.3 Inc. seg. avg. 0.130 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 53.6 47.6 Inc. frq. avg. 0.123 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 l: az 63.9 el 37.8 pa -72.0 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) -1381.185 246.839 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/ln..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/ln.W.222.12BED8



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

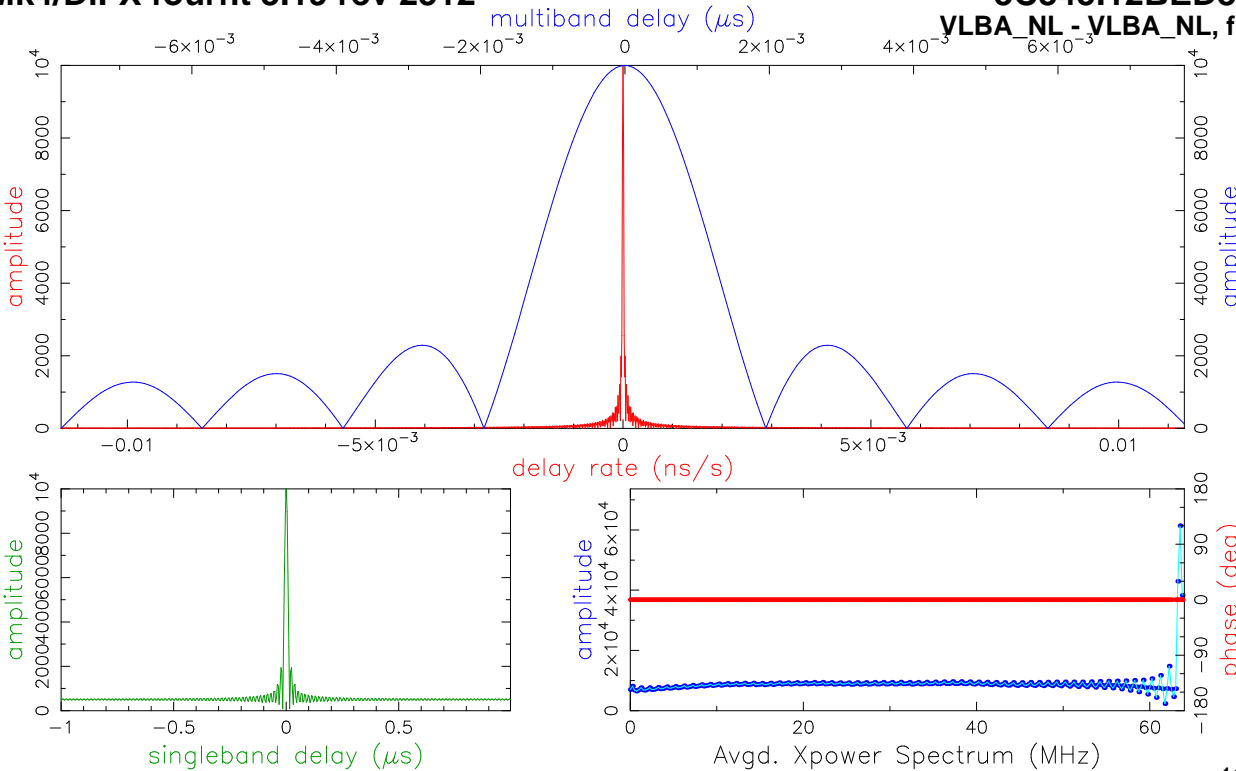


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
165.7	111.4	93.3	144.5	-174.8	-157.3	97.8	141.0	141.0	Phase	148.2
0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	Ampl.	0.1
37.8	311.2	318.1	87.7	422.0	438.7	35.1	415.3	415.3	Sbd box	423.0
U/L	795/0	795/0	795/0	795/0	795/0	795/0	795/0	795/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.38673213690E+03		Apriori delay (usec)	-3.38738147779E+03	Resid mbdelay (usec)	-6.90912E-03	+/-	2.0E-04		
Sband delay (usec)	-3.38673299504E+03		Apriori clock (usec)	-2.7215591E+01	Resid sbdelay (usec)	6.48483E-01	+/-	1.6E-03		
Phase delay (usec)	-3.38738147301E+03		Apriori clockrate (us/s)	-4.8569552E-07	Resid phdelay (usec)	4.77951E-06	+/-	6.8E-07		
Delay rate (us/s)	1.87939843246E-01		Apriori rate (us/s)	1.87942732980E-01	Resid rate (us/s)	-2.88973E-06	+/-	2.9E-09		
Total phase (deg)		-30.5	Apriori accel (us/s/s)	1.19919343883E-05	Resid phase (deg)	148.2	+/-	21.2		

	RMS	Theor.	Amplitude	0.101 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	57.2	50.8	Search (2048X32)	0.097	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	72.2	88.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	44.0	30.0	Inc. seg. avg.	0.100	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	38.5	52.3	Inc. frq. avg.	0.109	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

l: az 63.9 el 37.8 pa -72.0 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) -1381.185 246.839 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/In..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/In.W.241.12BED8

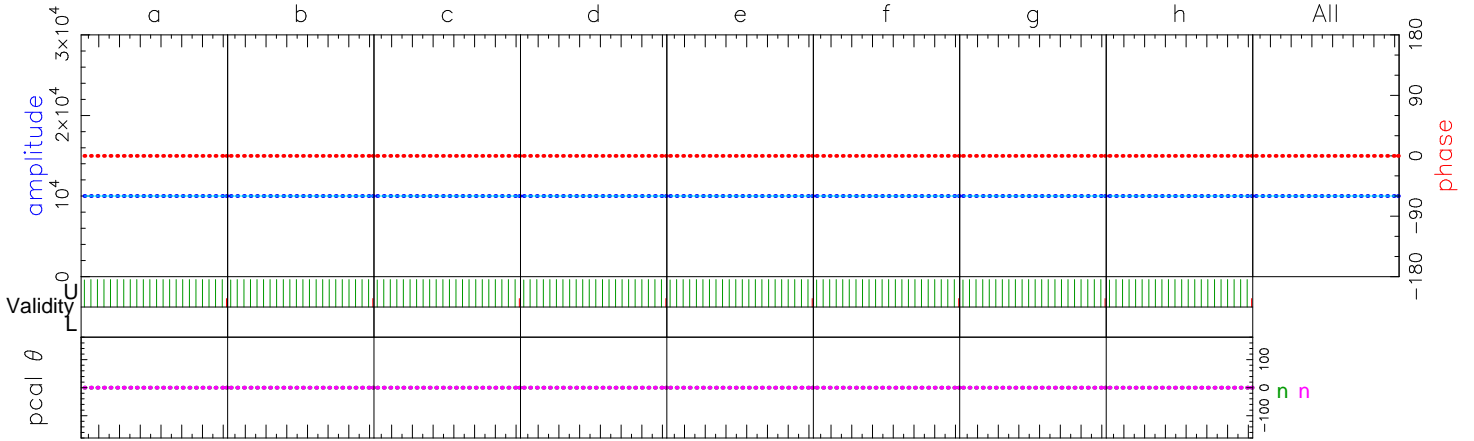


Fringe quality 9

SNR 554275.0
Int time 410.824
Amp 10000.000
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165641
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

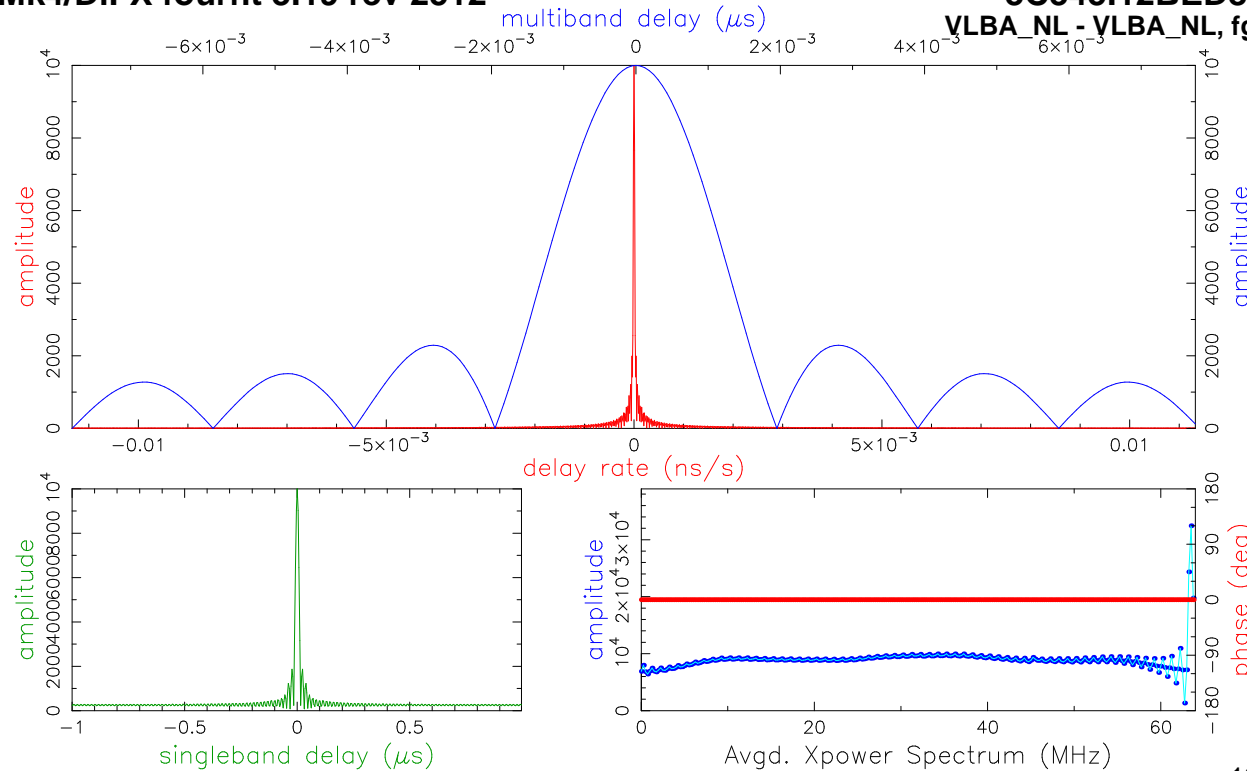


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd) 0.0000000000E+00 Apriori delay (usec) 0.0000000000E+00 Resid mbdelay (usec) 0.00000E+00 +/- 2.0E-09
 Sband delay (usec) 0.0000000000E+00 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 0.00000E+00 +/- 1.6E-08
 Phase delay (usec) 8.2991399953E-20 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 8.29914E-20 +/- 6.7E-12
 Delay rate (us/s) 0.0000000000E+00 Apriori rate (us/s) 0.0000000000E+00 Resid rate (us/s) 0.00000E+00 +/- 2.8E-14
 Total phase (deg) 0.0 Apriori accel (us/s/s) 0.0000000000E+00 Resid phase (deg) 0.0 +/- 0.0

RMS Theor. Amplitude 10000.000 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 10000.001 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 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. 10000.001 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

n: az 74.7 el 50.6 pa -69.4 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/nn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/nn.W.239.12BED8

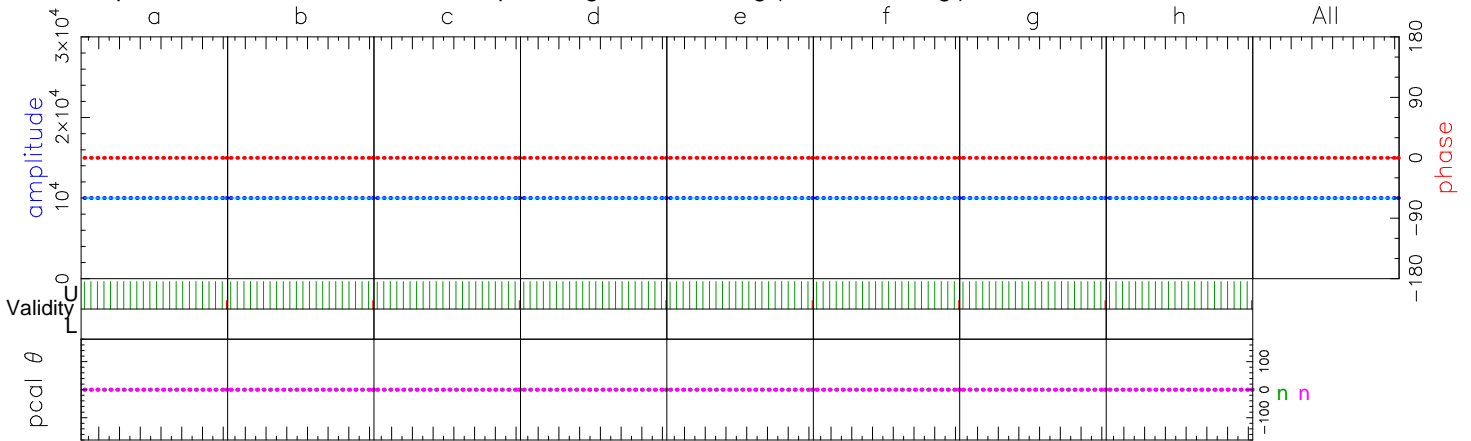


Fringe quality 9

SNR 554275.0
Int time 410.824
Amp 10000.000
Phase -0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165644
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

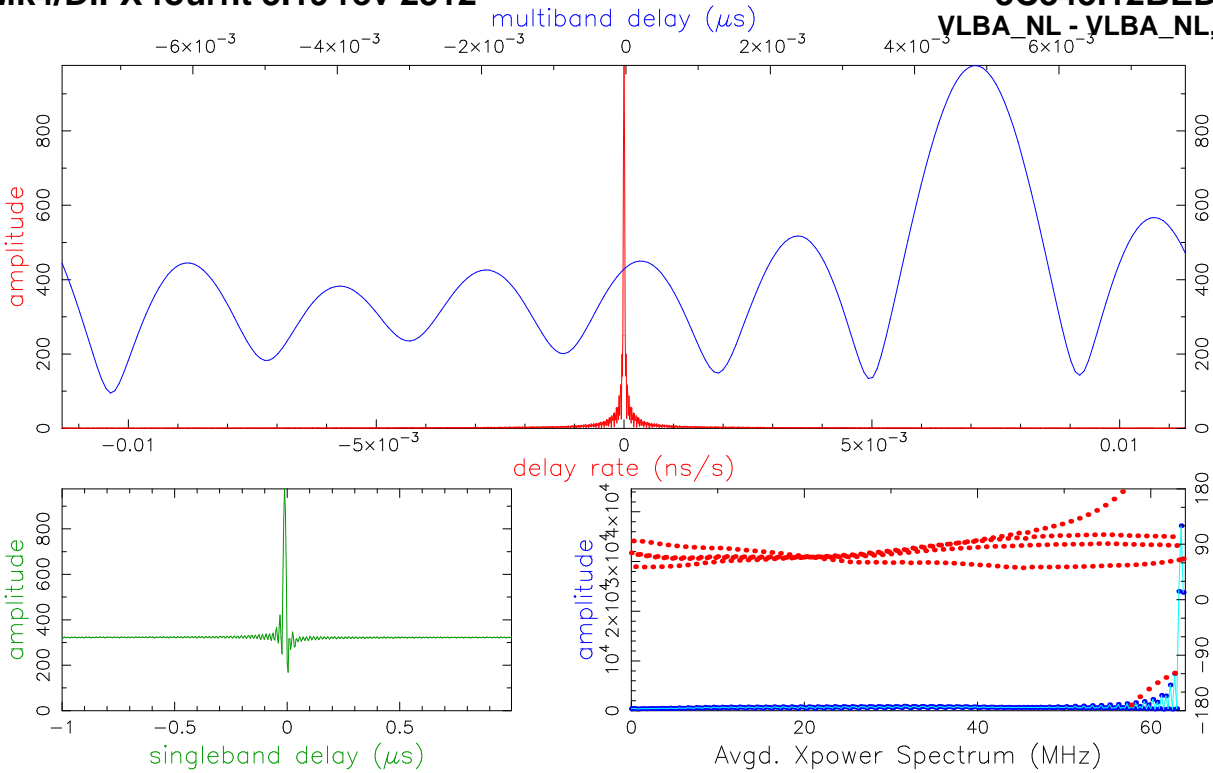
Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		
Phase delay (usec)	-1.80881772131E-19	-1.80881772131E-19	-1.80881772131E-19	-1.80881772131E-19	-1.80881772131E-19	-1.80881772131E-19	-1.80881772131E-19	-1.80881772131E-19		
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00		
Total phase (deg)			-0.0							
	RMS	Theor.	Amplitude	10000.000 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	0.0	0.0	Search (2048X32)	10000.001	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000	
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.	10000.001	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

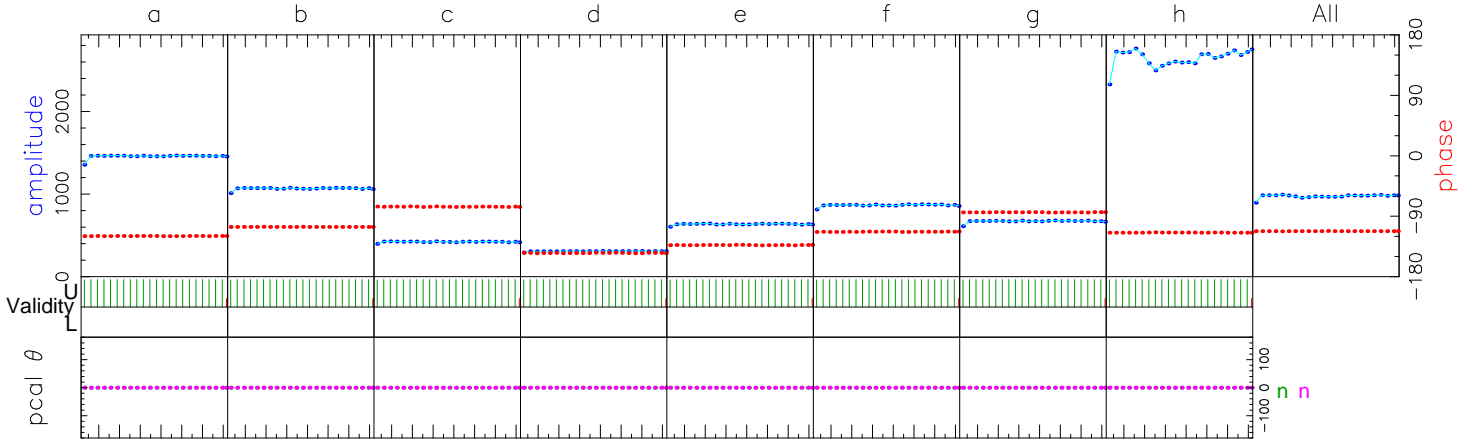
n: az 74.7 el 50.6 pa -69.4 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/nn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/nn.W.252.12BED8



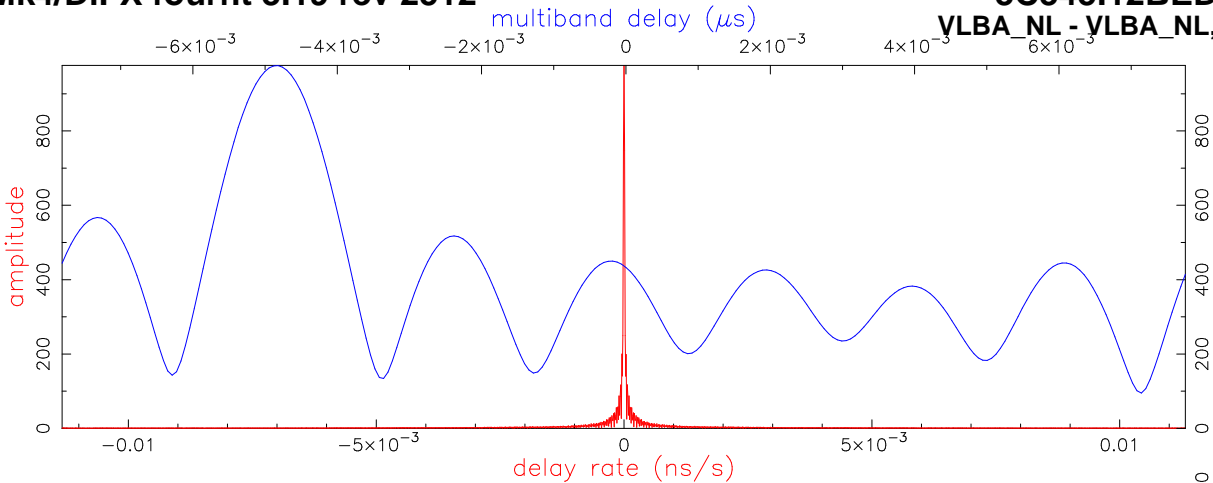
Fringe quality 5
 SNR 54119.2
 Int time 410.824
 Amp 976.396
 Phase -112.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.011430
 MBD 0.004827
 Fringe rate (Hz)
 -0.000001
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183008.70
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165648
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



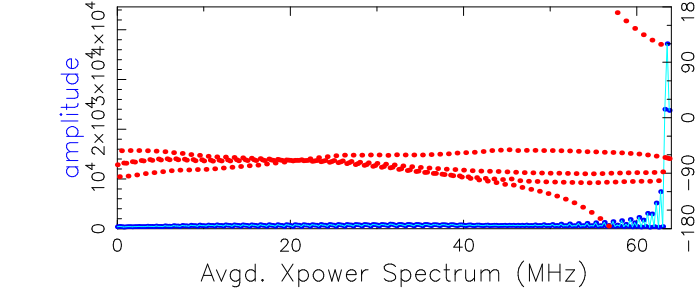
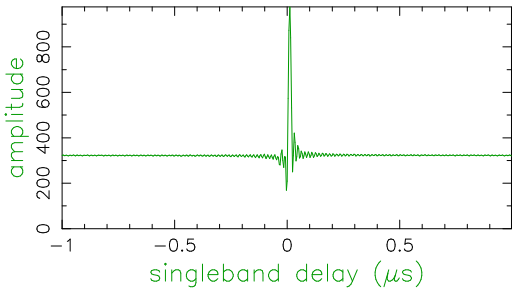
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-119.4	-105.8	-75.8	-144.6	-132.8	-113.0	-84.1	-114.3	Phase	-112.2
	1458.5	1068.4	422.9	309.1	636.9	866.5	672.2	2642.3	Ampl.	1009.6
	254.8	254.5	254.1	253.2	255.0	254.4	254.8	253.0	Sbd box	254.1
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.07977187500E-02		Apriori delay (usec)		0.0000000000E+00		Resid mbdelay (usec)		4.82728E-03	+/- 2.0E-08
Sband delay (usec)	-1.1430000000E-02		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-1.14300E-02	+/- 1.6E-07
Phase delay (usec)	-3.61724935564E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-3.61725E-06	+/- 6.8E-11
Delay rate (us/s)	-6.37701857626E-12		Apriori rate (us/s)		0.0000000000E+00		Resid rate (us/s)		-6.37702E-12	+/- 2.9E-13
Total phase (deg)			Apriori accel (us/s/s)		0.0000000000E+00		Resid phase (deg)		-112.2	+/- 0.0

ph/seg (deg) 0.1 0.0 Theor. Amplitude 976.396 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 2.0 0.0 Search (2048X32) 974.841 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 24.8 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 72.3 0.0 Inc. seg. avg. 975.721 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 n: az 74.7 el 50.6 pa -69.4 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/nn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/nn.W.270.12BED8 simultaneous interpolator



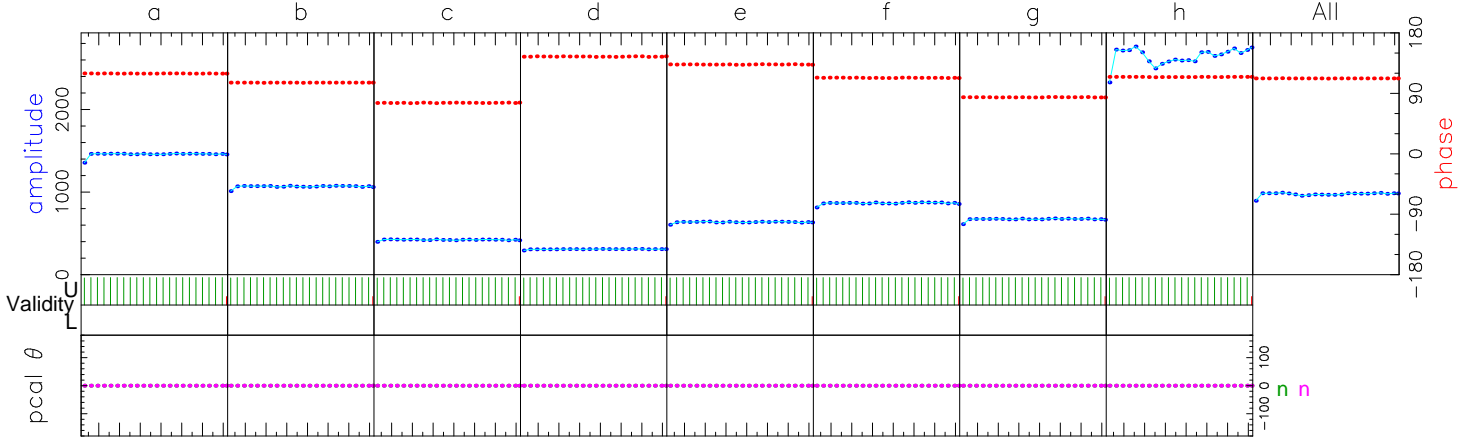
Fringe quality 5

SNR 54119.2
Int time 410.824
Amp 976.396
Phase 112.2
PFD 0.0e+00
Delays (us)
SBD 0.011430
MBD -0.004827
Fringe rate (Hz)
0.000001
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165651
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

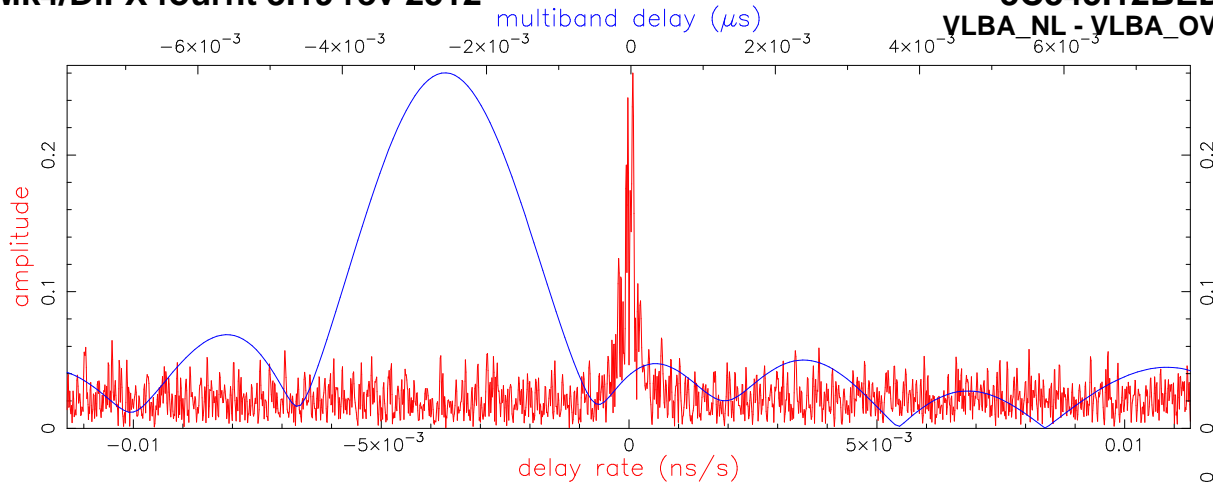


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	1.07977187500E-02		Apriori delay (usec)		0.0000000000E+00		Resid mbdelay (usec)		-4.82728E-03	+/- 2.0E-08
Sband delay (usec)	1.1430000000E-02		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		1.14300E-02	+/- 1.6E-07
Phase delay (usec)	3.61724935560E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		3.61725E-06	+/- 6.8E-11
Delay rate (us/s)	6.37701857626E-12		Apriori rate (us/s)		0.0000000000E+00		Resid rate (us/s)		6.37702E-12	+/- 2.9E-13
Total phase (deg)	112.2		Apriori accel (us/s/s)		0.0000000000E+00		Resid phase (deg)		112.2	+/- 0.0

RMS Theor. Amplitude 976.396 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.1 0.0 Search (2048X32) 974.841 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 2.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 24.8 0.0 Inc. seg. avg. 975.721 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 72.3 0.0 Inc. frq. avg. 1009.608 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 n: az 74.7 el 50.6 pa -69.4 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/nn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/nn.W.293.12BED8

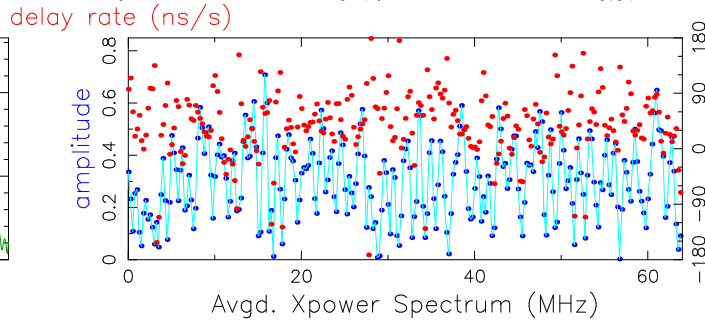
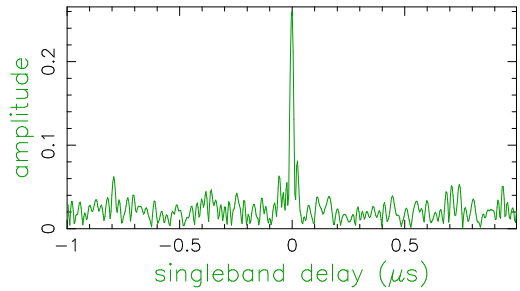
Mk4/DiFX fourfit 3.19 rev 2512

3C345.12BED8, No0001, no VLBA_NL - VLBA_OV, fgroup W, pol LL



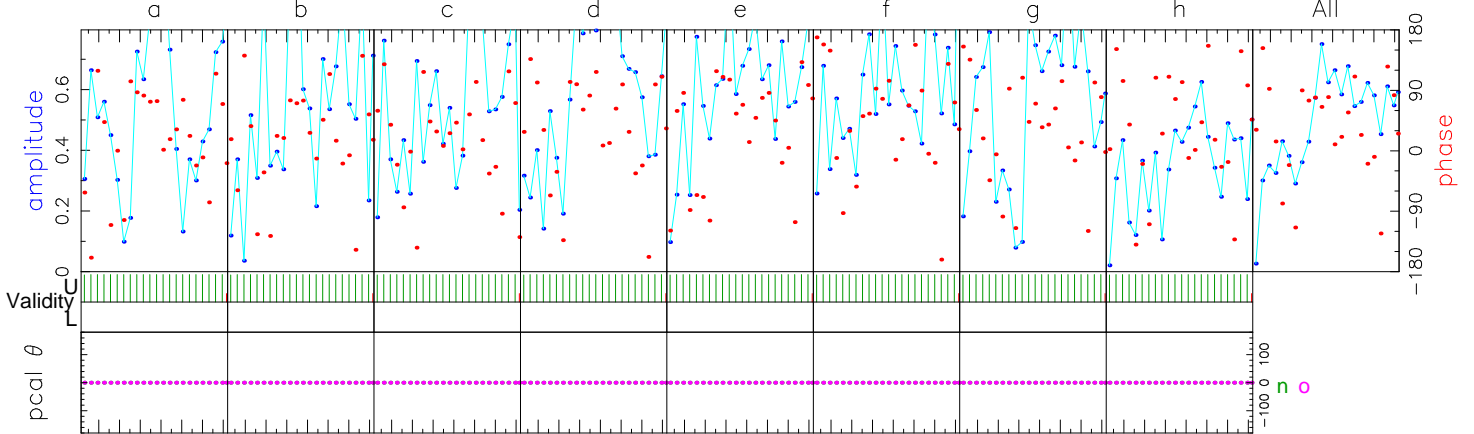
Fringe quality 9

SNR 14.7
 Int time 410.824
 Amp 0.266
 Phase 50.2
 PFD 3.0e-40
 Delays (us)
 SBD -0.001811
 MBD -0.002624
 Fringe rate (Hz) 0.007128
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512



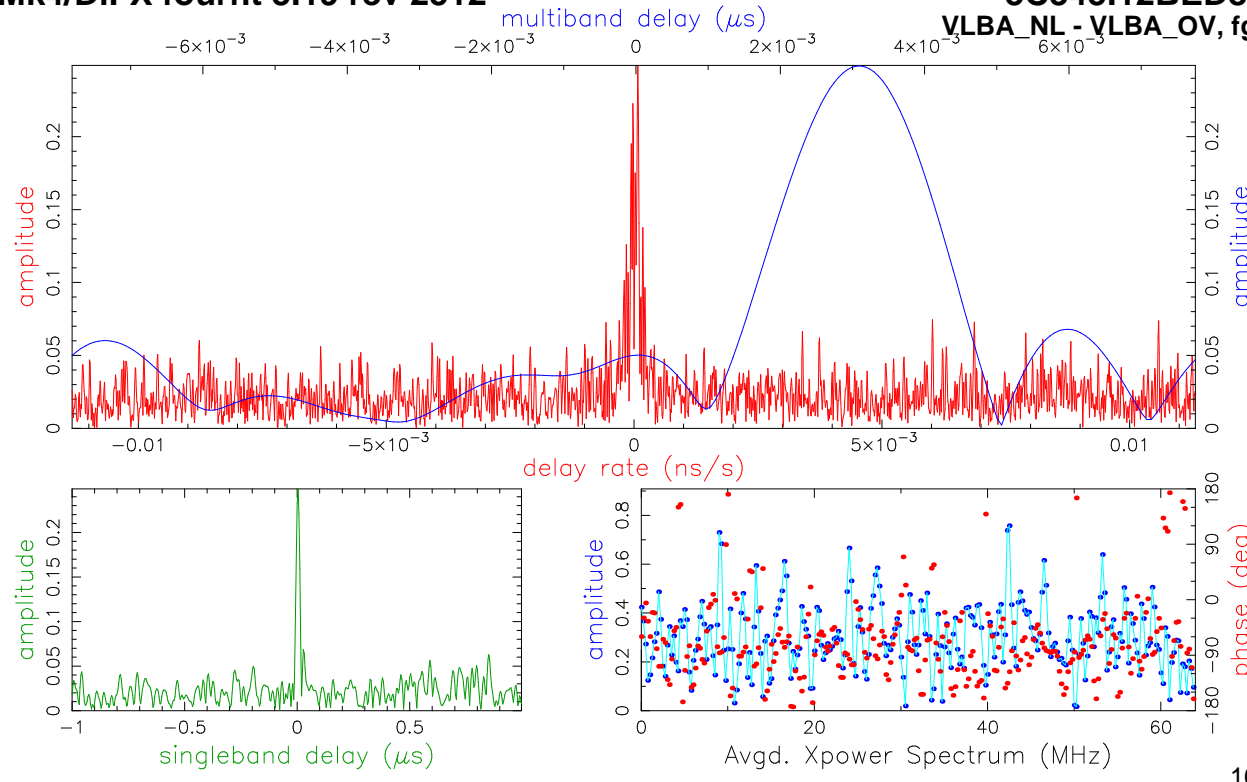
Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183008.70
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165641
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 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	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		
n	1000	1000	1000	1000	1000	1000	1000	1000	APs used	1000
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	0:0
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	0:0
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000
o	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	5.79987452740E+03		Apriori delay (usec)		5.79987715098E+03		Resid mbdelay (usec)		-2.62358E-03	+/- 7.4E-05
Sband delay (usec)	5.79987533973E+03		Apriori clock (usec)		9.8455582E+00		Resid sbdelay (usec)		-1.81125E-03	+/- 5.9E-04
Phase delay (usec)	5.79987715260E+03		Apriori clockrate (us/s)		1.3324251E-07		Resid phdelay (usec)		1.61750E-06	+/- 2.5E-07
Delay rate (us/s)	-2.30854664991E-01		Apriori rate (us/s)		-2.30854747736E-01		Resid rate (us/s)		8.27454E-08	+/- 1.1E-09
Total phase (deg)	332.9		Apriori accel (us/s/s)		-2.63821853623E-05		Resid phase (deg)		50.2	+/- 7.8

ph/seg (deg) 73.0 18.7 Search (2048X32) 0.251 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 103.6 32.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 11.7 11.0 Inc. seg. avg. 0.463 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 21.9 19.2 Inc. frq. avg. 0.259 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 74.7 el 50.6 pa -69.4 o: az 60.7 el 29.9 pa -64.6 u,v (fr/asec) 1675.956 -1330.225 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/no..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/no.W.236.12BED8

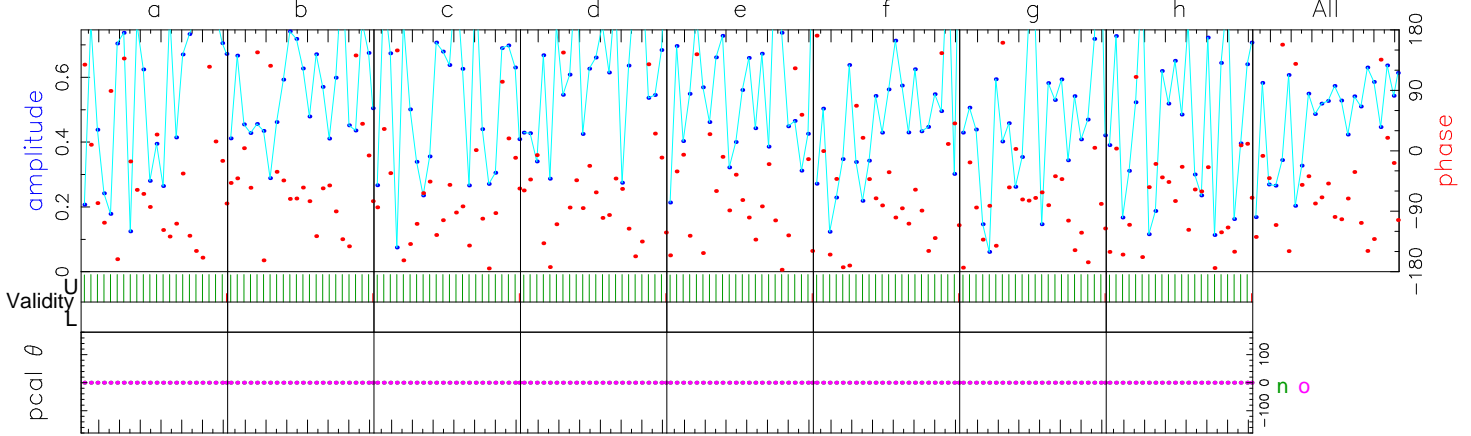


Fringe quality 9

SNR 13.8
 Int time 410.824
 Amp 0.249
 Phase -79.9
 PFD 1.6e-34
 Delays (us)
 SBD 0.003397
 MBD 0.003084
 Fringe rate (Hz) 0.006798
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

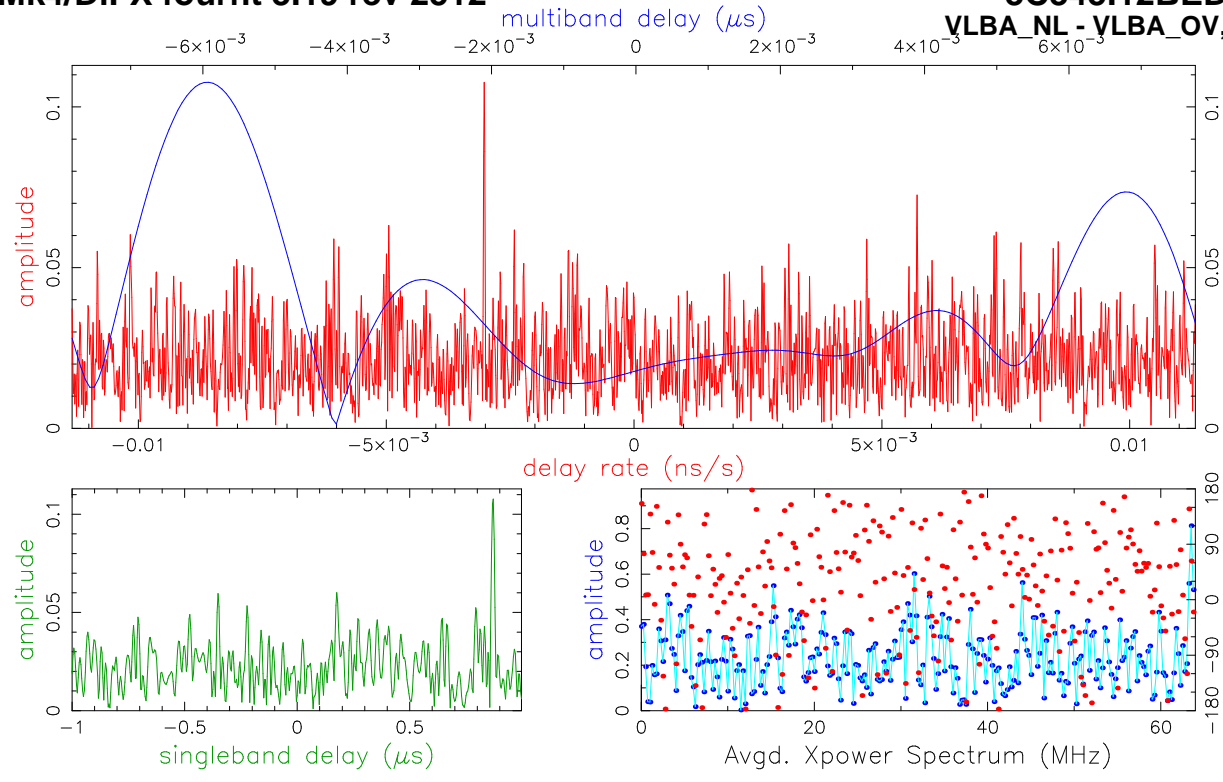
Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183008.70
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165645
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 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
	-97.0	-68.2	-69.9	-86.0	-87.3	-80.3	-82.0	-73.1	Phase	-79.9
	0.2	0.3	0.2	0.3	0.2	0.2	0.3	0.2	Ampl.	0.2
	258.3	257.2	257.8	257.7	257.6	259.1	258.2	257.3	Sbd box	257.9
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.79988023453E+03		Apriori delay (usec)		5.79987715098E+03		Resid mbdelay (usec)		3.08355E-03	+/- 7.9E-05
Sband delay (usec)	5.79988054773E+03		Apriori clock (usec)		9.8455582E+00		Resid sbdelay (usec)		3.39675E-03	+/- 6.2E-04
Phase delay (usec)	5.79987714840E+03		Apriori clockrate (us/s)		1.3324251E-07		Resid phdelay (usec)		-2.57631E-06	+/- 2.7E-07
Delay rate (us/s)	-2.30854668815E-01		Apriori rate (us/s)		-2.30854747736E-01		Resid rate (us/s)		7.89213E-08	+/- 1.1E-09
Total phase (deg)	202.8		Apriori accel (us/s/s)		-2.63821853623E-05		Resid phase (deg)		-79.9	+/- 8.3

ph/seg (deg) 67.7 19.9 Search (2048X32) 0.245 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 104.4 34.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 10.6 11.7 Inc. seg. avg. 0.442 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 21.9 20.5 Inc. frq. avg. 0.246 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 74.7 el 50.6 pa -69.4 o: az 60.7 el 29.9 pa -64.6 u,v (fr/asec) 1675.956 -1330.225 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/no..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/no.W.255.12BED8

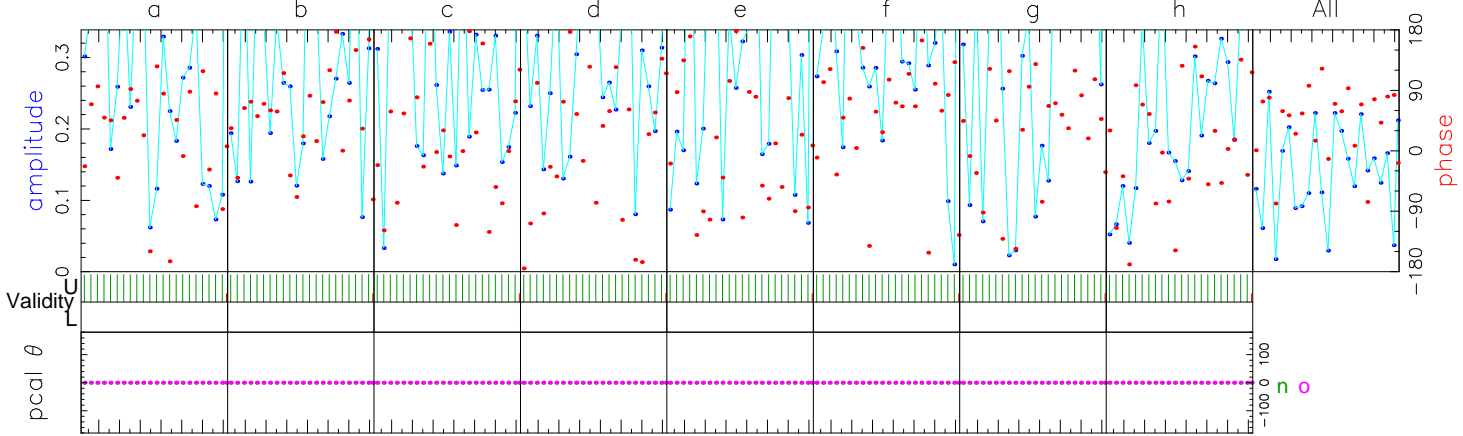


Fringe quality 0

SNR 6.1
 Int time 410.824
 Amp 0.113
 Phase 56.5
 PFD 2.7e-01
 Delays (us)
 SBD 0.869524
 MBD -0.005932
 Fringe rate (Hz)
 -0.260287
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

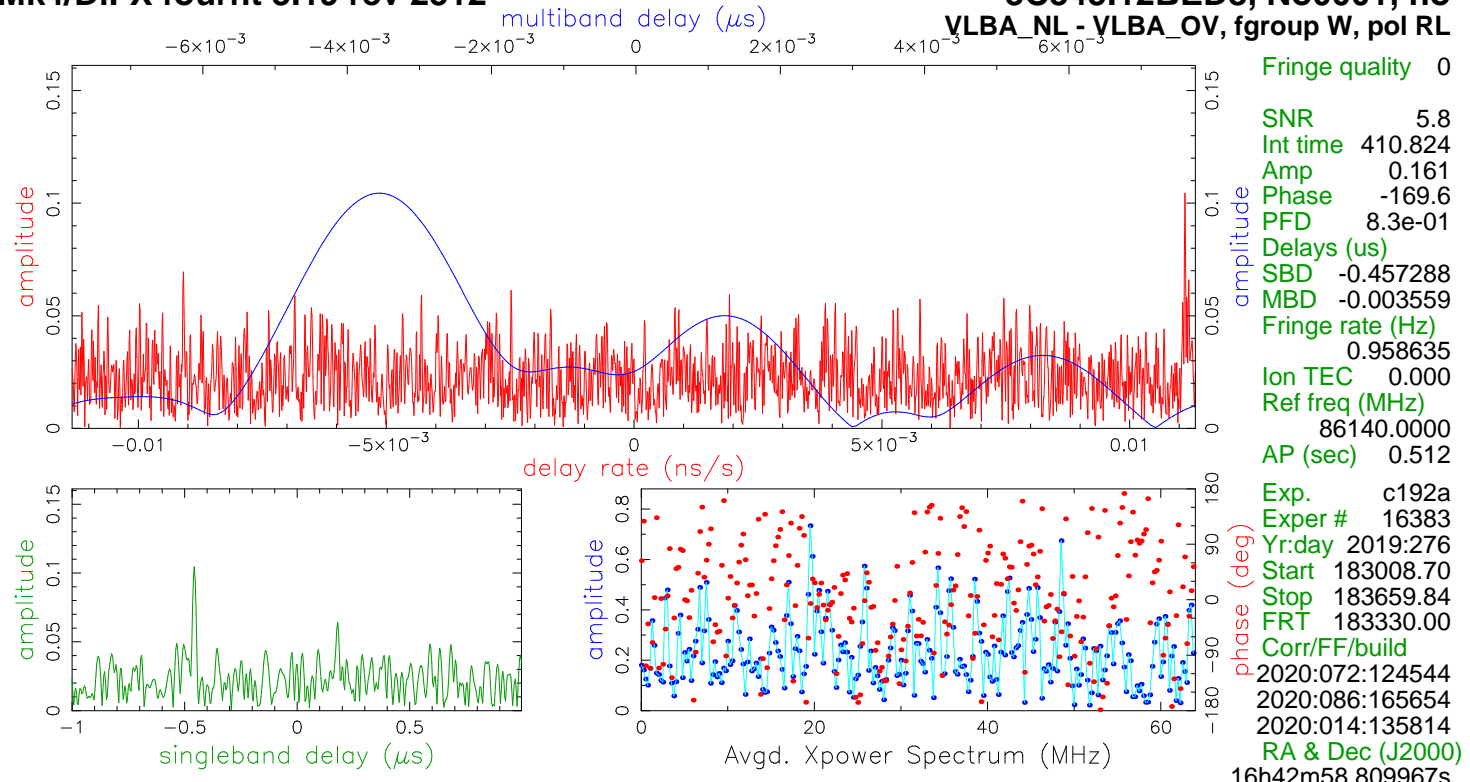
Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183008.70
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165649
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

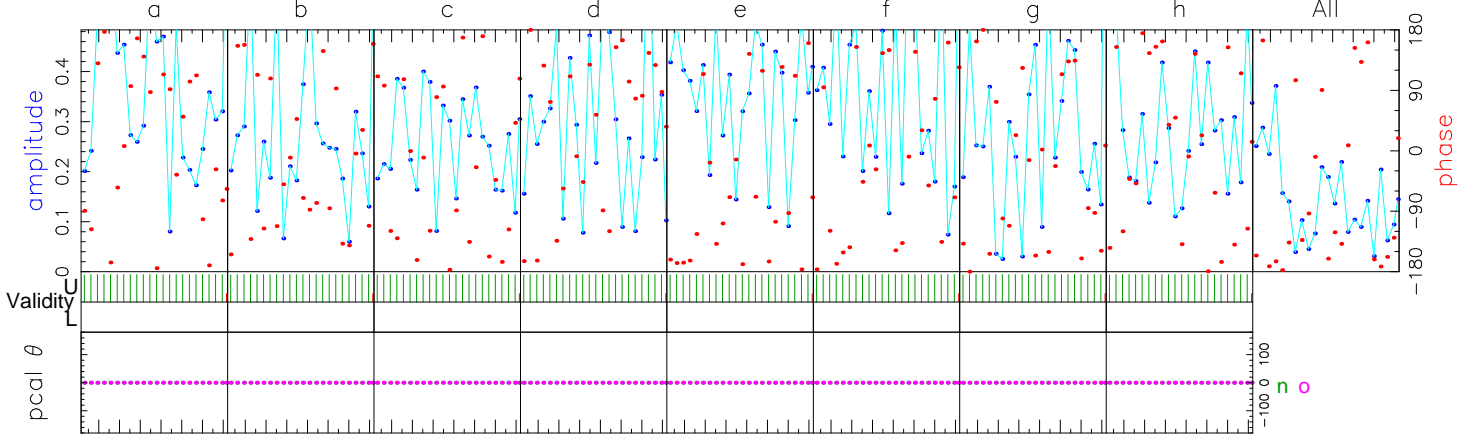


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	5.80074621891E+03		Apriori delay (usec)		5.79987715098E+03		Resid mbdelay (usec)		-5.93207E-03	+/- 1.8E-04
Sband delay (usec)	5.80074667473E+03		Apriori clock (usec)		9.8455582E+00		Resid sbdelay (usec)		8.69524E-01	+/- 1.4E-03
Phase delay (usec)	5.79987715280E+03		Apriori clockrate (us/s)		1.3324251E-07		Resid phdelay (usec)		1.82318E-06	+/- 6.1E-07
Delay rate (us/s)	-2.30857769408E-01		Apriori rate (us/s)		-2.30854747736E-01		Resid rate (us/s)		-3.02167E-06	+/- 2.6E-09
Total phase (deg)	339.2		Apriori accel (us/s/s)		-2.63821853623E-05		Resid phase (deg)		56.5	+/- 18.9

ph/seg (deg) 52.1 45.2 Search (2048X32) 0.113 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 65.1 78.9 Interp. 0.106 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 31.3 26.7 Inc. seg. avg. 0.109 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 56.0 46.5 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
 n: az 74.7 el 50.6 pa -69.4 o: az 60.7 el 29.9 pa -64.6 u,v (fr/asec) 1675.956 -1330.225 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/no..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/no.W.280.12BED8



Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

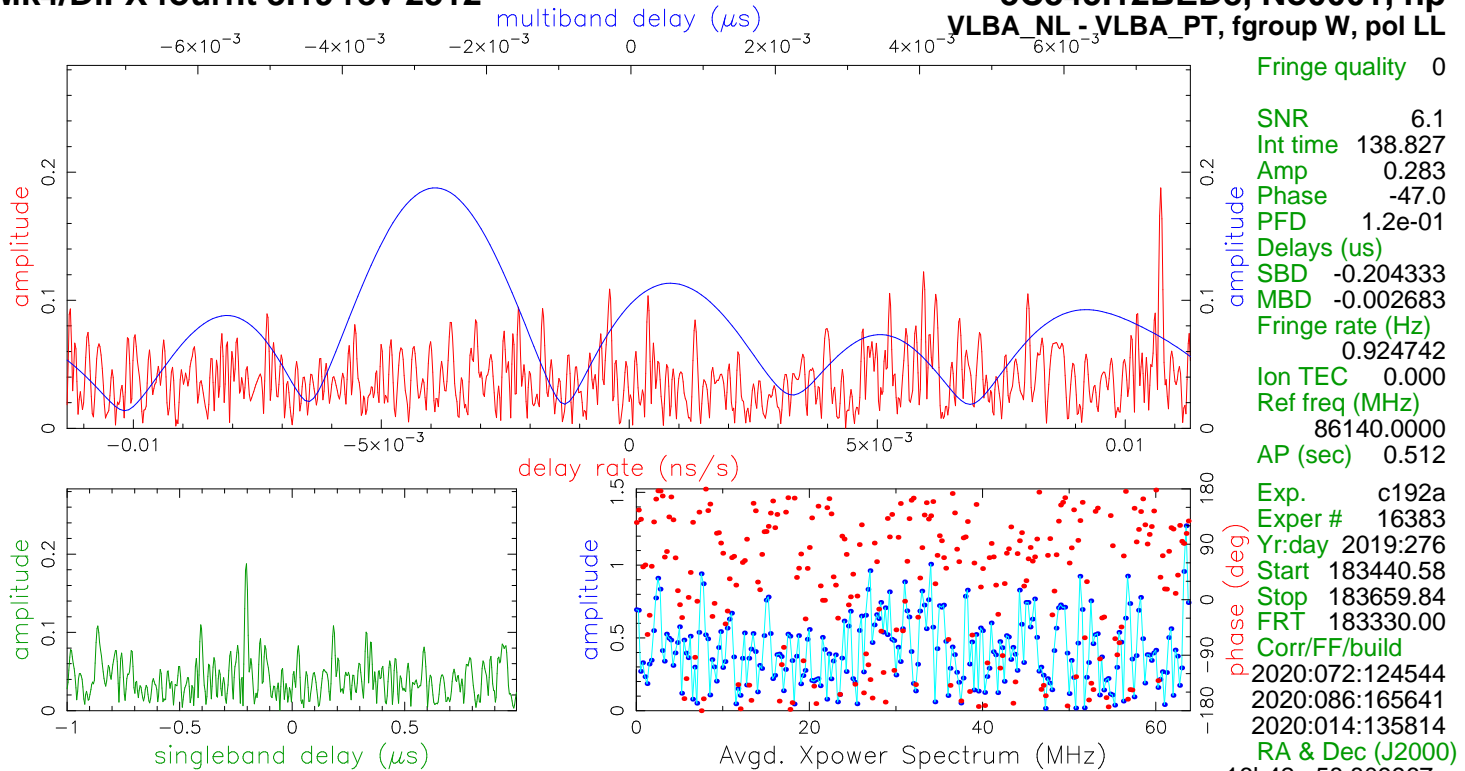


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
166.5	-117.2	-160.1	146.0	-162.3	-166.8	-166.9	-168.0	-168.0	Phase	-169.6
0.1	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.2	Ampl.	0.2
474.2	1.3	479.1	39.7	39.3	31.5	138.0	178.8	178.8	Sbd box	139.9
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	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)	5.79942046674E+03		Apriori delay (usec)	5.79987715098E+03	Resid mbdelay (usec)	-3.55924E-03	+/-	1.9E-04		
Sband delay (usec)	5.79941986323E+03		Apriori clock (usec)	9.8455582E+00	Resid sbdelay (usec)	-4.57288E-01	+/-	1.5E-03		
Phase delay (usec)	5.79987714551E+03		Apriori clockrate (us/s)	1.3324251E-07	Resid phdelay (usec)	-5.46863E-06	+/-	6.4E-07		
Delay rate (us/s)	-2.30843618930E-01		Apriori rate (us/s)	-2.30854747736E-01	Resid rate (us/s)	1.11288E-05	+/-	2.7E-09		
Total phase (deg)		113.1	Apriori accel (us/s/s)	-2.63821853623E-05	Resid phase (deg)	-169.6	+/-	19.8		

	RMS	Theor.	Amplitude	0.161 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	68.3	47.4	Search (2048X32)	0.103	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	92.4	82.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	30.1	28.0	Inc. seg. avg.	0.171	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	34.1	48.8	Inc. frq. avg.	0.159	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00
n: az 74.7 el 50.6 pa -69.4			o: az 60.7 el 29.9 pa -64.6		u,v (fr/asec) 1675.956 -1330.225					simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

3C345.12BED8, No0001, np
VLBA_NL - VLBA_PT, fgroup W, pol LL



Fringe quality 0

SNR 6.1

Int time 138.827

Amp 0.283

Phase -47.0

PFD 1.2e-01

Delays (us)

SBD -0.204333

MBD -0.002683

Fringe rate (Hz)

0.924742

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c192a

Exper # 16383

Yr:day 2019:276

Start 183440.58

Stop 183659.84

FRT 183330.00

Corr/FF/build

2020:072:124544

2020:086:165641

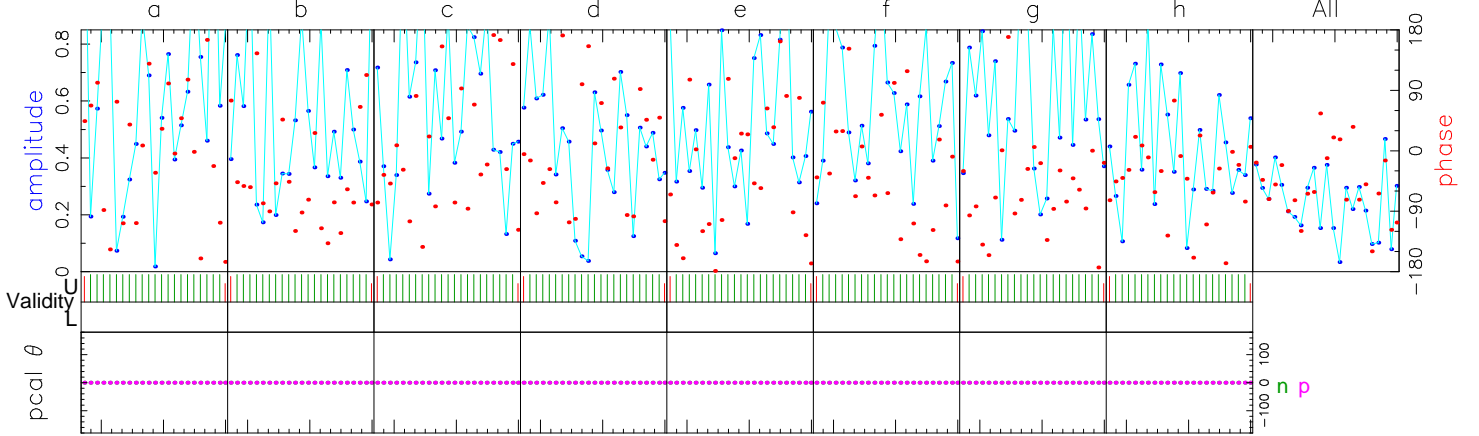
2020:014:135814

RA & Dec (J2000)

16h42m58.809967s

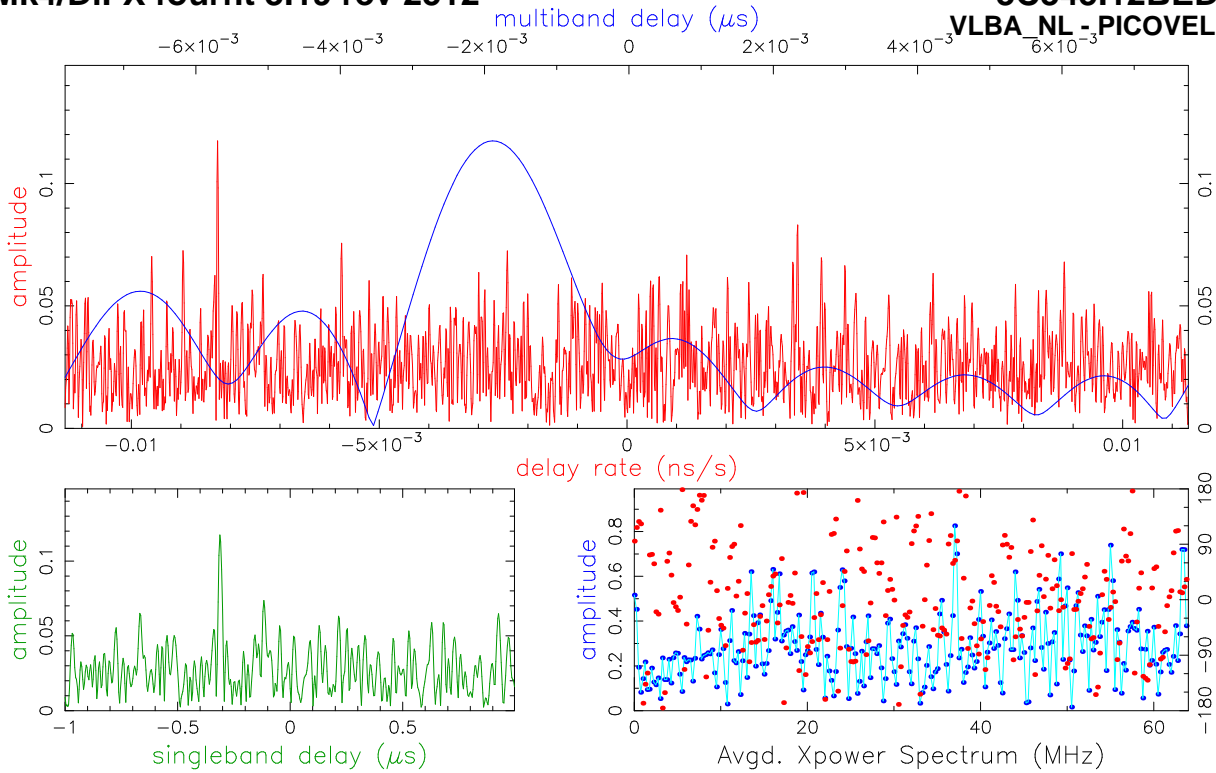
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 12 APs / seg (6.14 sec / seg.), time ticks 10 sec



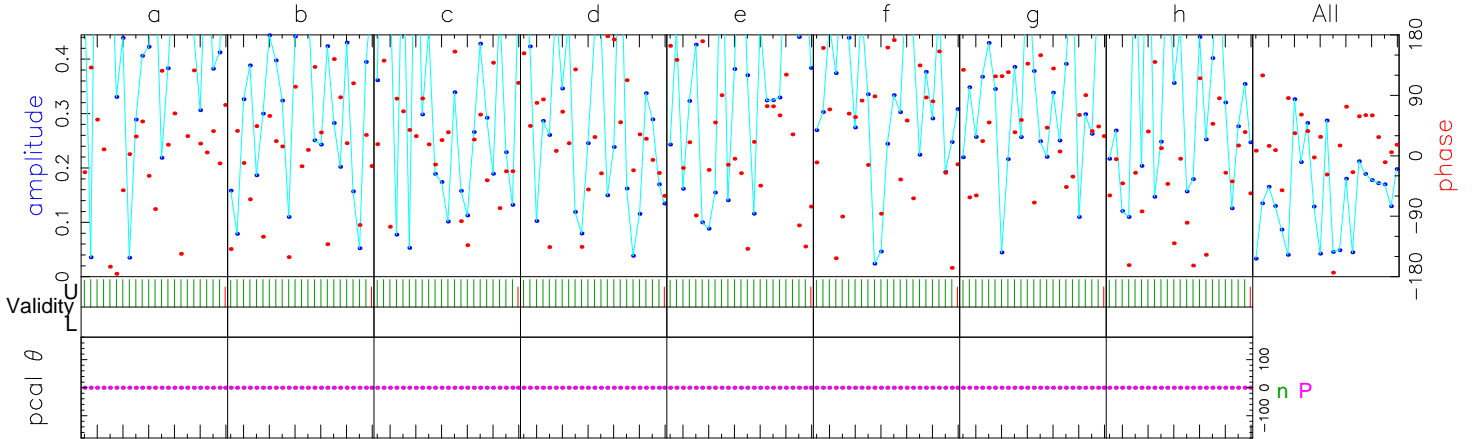
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0		
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	3.97271698214E+03					3.97292279059E+03			Resid mbdelay (usec)	-2.68345E-03 +/- 1.8E-04
Sband delay (usec)	3.97271845734E+03					1.4569433E+01			Resid sbdelay (usec)	-2.04333E-01 +/- 1.4E-03
Phase delay (usec)	3.97292278907E+03					-6.9663080E-08			Resid phdelay (usec)	-1.51523E-06 +/- 6.0E-07
Delay rate (us/s)	-2.16423033795E-01					-2.16433769130E-01			Resid rate (us/s)	1.07353E-05 +/- 7.5E-09
Total phase (deg)			18.3			-1.36552804118E-05			Resid phase (deg)	-47.0 +/- 18.7
	RMS	Theor.	Amplitude	0.283 +/- 0.046					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	50.7	44.9	Search (1024X32)	0.186					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	65.4	78.4	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	38.5	26.5	Inc. seg. avg.	0.279					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	62.7	46.2	Inc. frq. avg.	0.291					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
n: az 74.7 el 50.6 pa -69.4			p: az 62.4 el 35.8 pa -72.8			u, v (fr/asec) 1590.964 -215.030			nlags: 256 t_cohere infinite	simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/np..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/np.W.238.12BED8



Fringe quality 0
SNR 5.9
Int time 336.738
Amp 0.148
Phase 30.1
PFD 5.7e-01
Delays (us)
SBD -0.311597
MBD -0.001881
Fringe rate (Hz)
-0.712090
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183122.43
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165643
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 29 APs / seg (14.85 sec / seg.), time ticks 30 sec



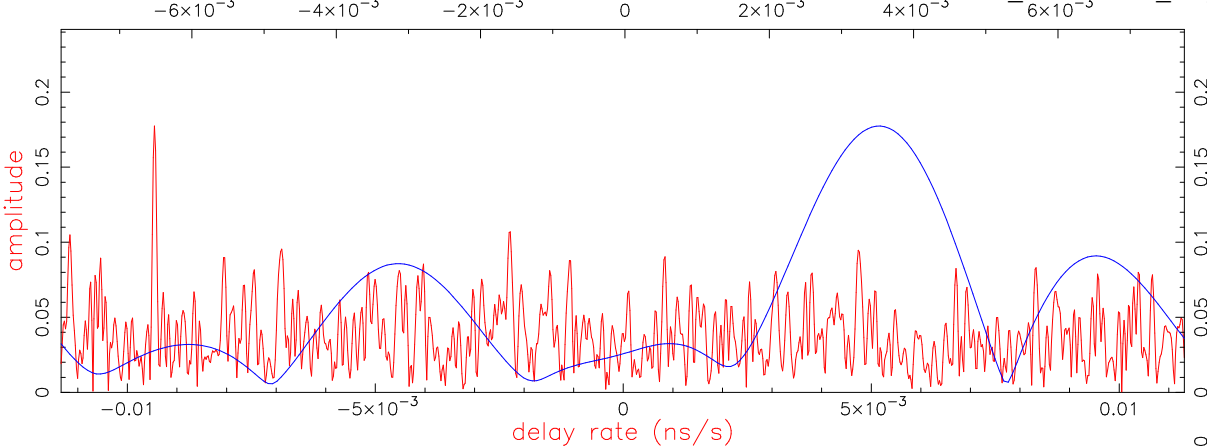
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-2.12526497037E+03	Apriori delay (usec)	-2.12495058932E+03	Resid mbdelay (usec)	-1.88105E-03	+/-	1.8E-04
Sband delay (usec)	-2.12526218632E+03	Apriori clock (usec)	2.6565306E+01	Resid sbdelay (usec)	-3.11597E-01	+/-	1.5E-03
Phase delay (usec)	-2.12495058834E+03	Apriori clockrate (us/s)	4.8722349E-07	Resid phdelay (usec)	9.72060E-07	+/-	6.2E-07
Delay rate (us/s)	1.26459461142E+00	Apriori rate (us/s)	1.26460287808E+00	Resid rate (us/s)	-8.26666E-06	+/-	3.2E-09
Total phase (deg)		Apriori accel (us/s/s)	1.60013151196E-05	Resid phase (deg)	30.1	+/-	19.4

ph/seg (deg)	50.9	Theor.	46.4	Amplitude	0.148 +/- 0.025	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	75.0	Search (2048X32)	0.114	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	24.6	Inc. seg. avg.	0.141	Inc. frq. avg.	0.140	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	32.5	Inc. frq. avg.	0.140			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
						Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

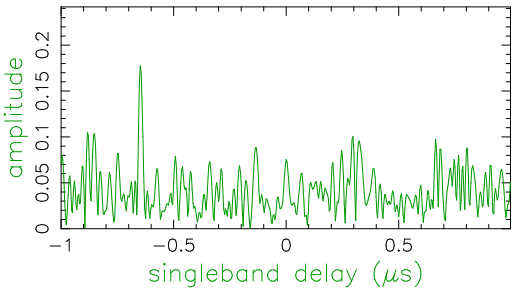
n: az 74.7 el 50.6 pa -69.4 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -9394.473 1590.958 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/nP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/nP.W.247.12BED8

multiband delay (μs)



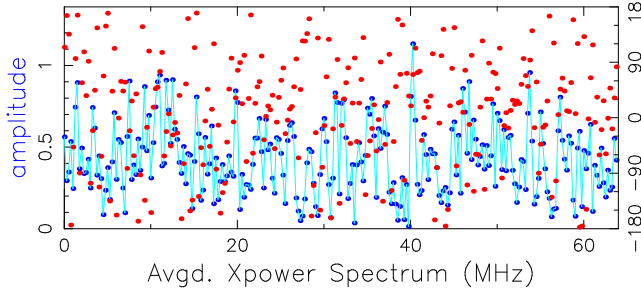
Fringe quality 0

SNR 5.7
Int time 138.827
Amp 0.242
Phase 91.7
PFD 6.8e-01
Delays (us)
SBD -0.647494
MBD 0.003544
Fringe rate (Hz)
-0.814769
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



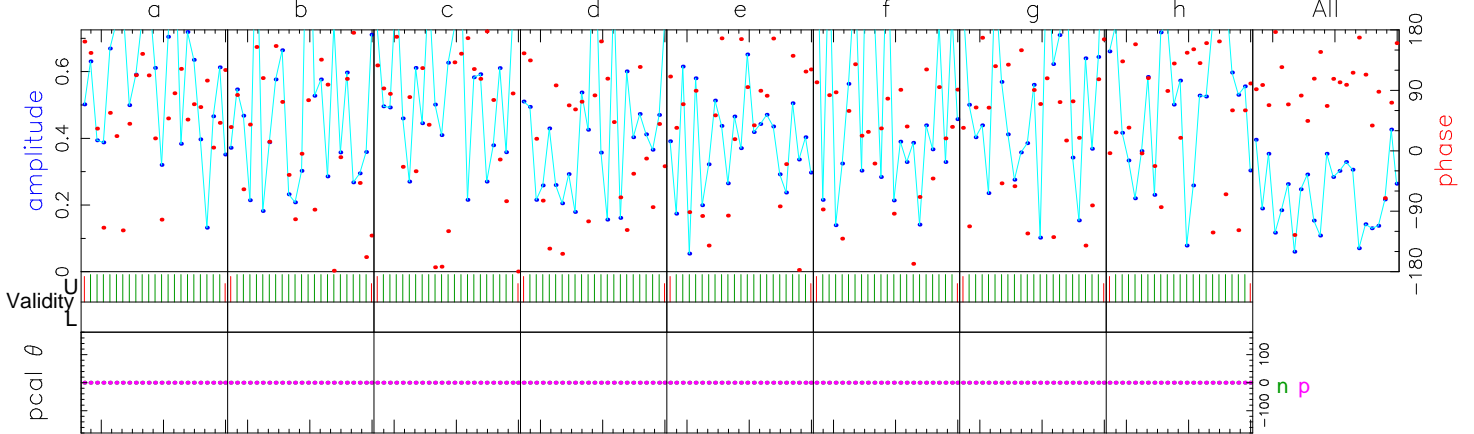
singleband delay (μs)

delay rate (ns/s)



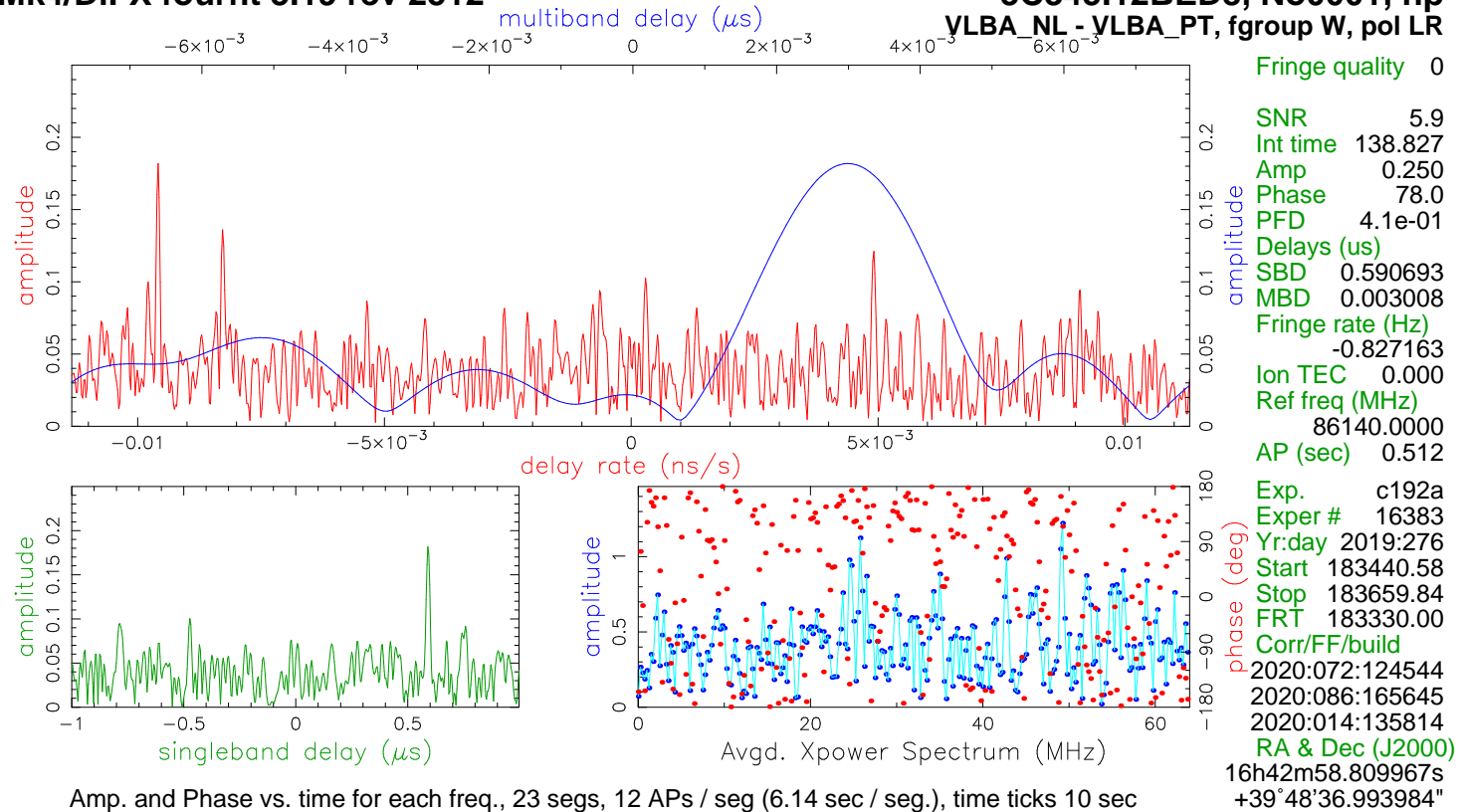
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183440.58
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165643
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 12 APs / seg (6.14 sec / seg.), time ticks 10 sec

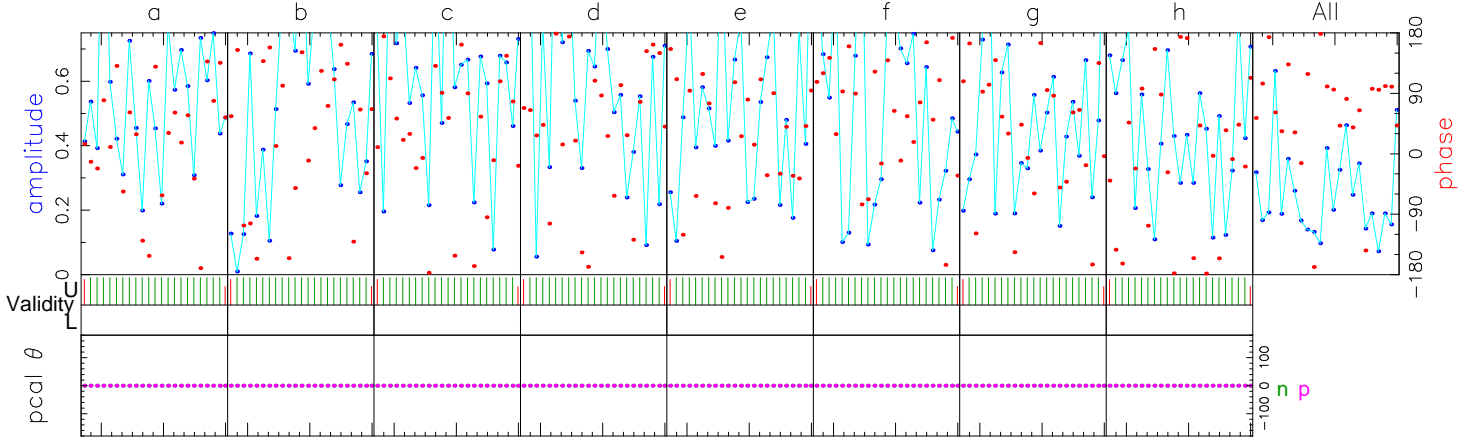


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0		
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	3.97227008420E+03		Apriori delay (usec)		3.97292279059E+03		Resid mbdelay (usec)		3.54361E-03	+/- 1.9E-04
Sband delay (usec)	3.97227529634E+03		Apriori clock (usec)		1.4569433E+01		Resid sbdelay (usec)		-6.47494E-01	+/- 1.5E-03
Phase delay (usec)	3.97292279355E+03		Apriori clockrate (us/s)		-6.9663080E-08		Resid phdelay (usec)		2.95712E-06	+/- 6.4E-07
Delay rate (us/s)	-2.16443227793E-01		Apriori rate (us/s)		-2.16433769130E-01		Resid rate (us/s)		-9.45866E-06	+/- 8.0E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.36552804118E-05		Resid phase (deg)		91.7	+/- 19.9

ph/seg (deg) 58.1 47.8 Search (1024X32) 0.176 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 65.1 83.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 22.7 28.2 Inc. seg. avg. 0.232 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 45.3 49.2 Inc. frq. avg. 0.230 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
n: az 74.7 el 50.6 pa -69.4 p: az 62.4 el 35.8 pa -72.8 u, v (fr/asec) 1590.964 -215.030 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/np..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/np.W.248.12BED8



Amp. and Phase vs. time for each freq., 23 segs, 12 APs / seg (6.14 sec / seg.), time ticks 10 sec



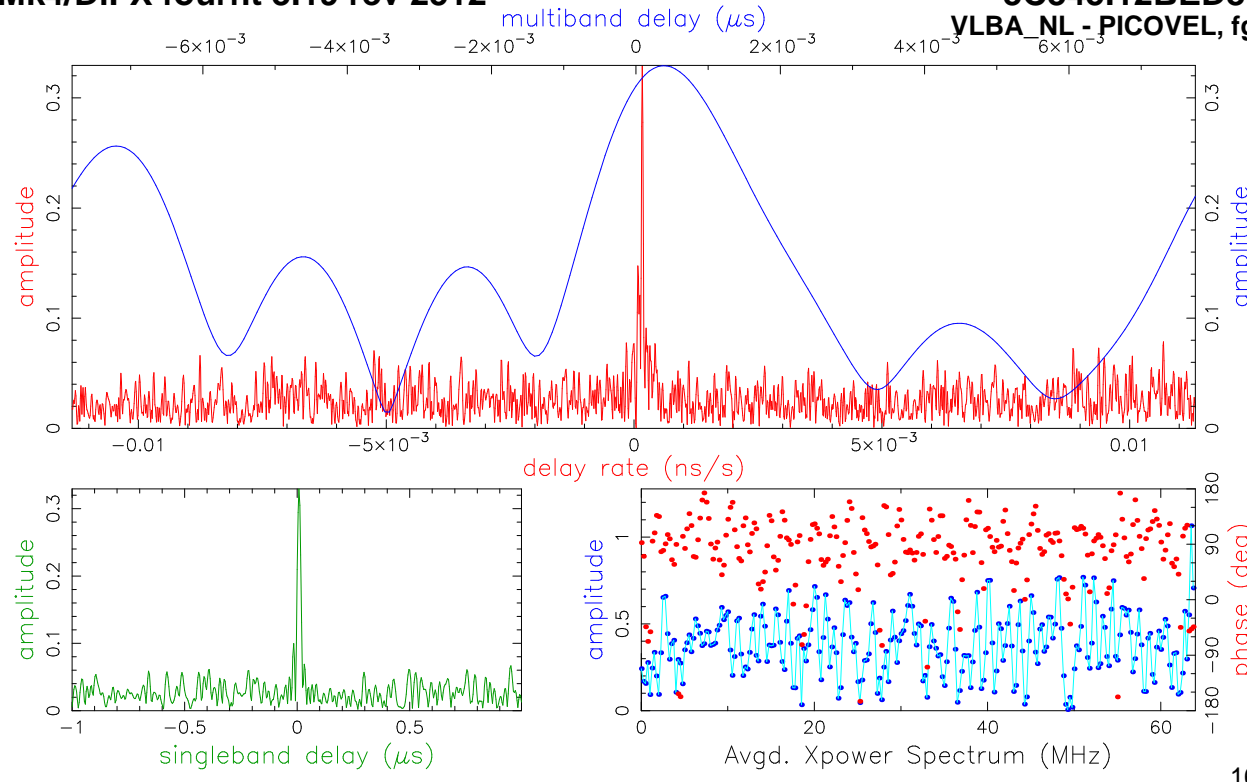
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
59.4	112.0	74.1	96.0	63.8	82.7	63.1	93.8	93.8	Phase	78.0
0.3	0.2	0.4	0.3	0.2	0.3	0.3	0.1	0.1	Ampl.	0.2
54.3	337.8	416.8	419.9	274.0	402.5	278.4	187.5	187.5	Sbd box	408.2
U/L	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	3.97351954890E+03	Apriori delay (usec)	3.97292279059E+03	Resid mbdelay (usec)	3.00831E-03	+/-	1.8E-04
Sband delay (usec)	3.97351348384E+03	Apriori clock (usec)	1.4569433E+01	Resid sbdelay (usec)	5.90693E-01	+/-	1.5E-03
Phase delay (usec)	3.97292279310E+03	Apriori clockrate (us/s)	-6.9663080E-08	Resid phdelay (usec)	2.51596E-06	+/-	6.3E-07
Delay rate (us/s)	-2.16443371668E-01	Apriori rate (us/s)	-2.16433769130E-01	Resid rate (us/s)	-9.60254E-06	+/-	7.8E-09
Total phase (deg)	143.3	Apriori accel (us/s/s)	-1.36552804118E-05	Resid phase (deg)	78.0	+/-	19.5

ph/seg (deg)	58.1	Theor.	46.7	Amplitude	0.250 +/- 0.043	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	83.8	Search (1024X32)	0.178	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	20.6	Inc. seg. avg.	0.260	Inc. frq. avg.	0.233	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	39.4	Inc. frq. avg.	0.233			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	
						nlags:	256	t_cohere	infinite	

n: az 74.7 el 50.6 pa -69.4 p: az 62.4 el 35.8 pa -72.8 u,v (fr/asec) 1590.964 -215.030 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/np..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/np.W.253.12BED8

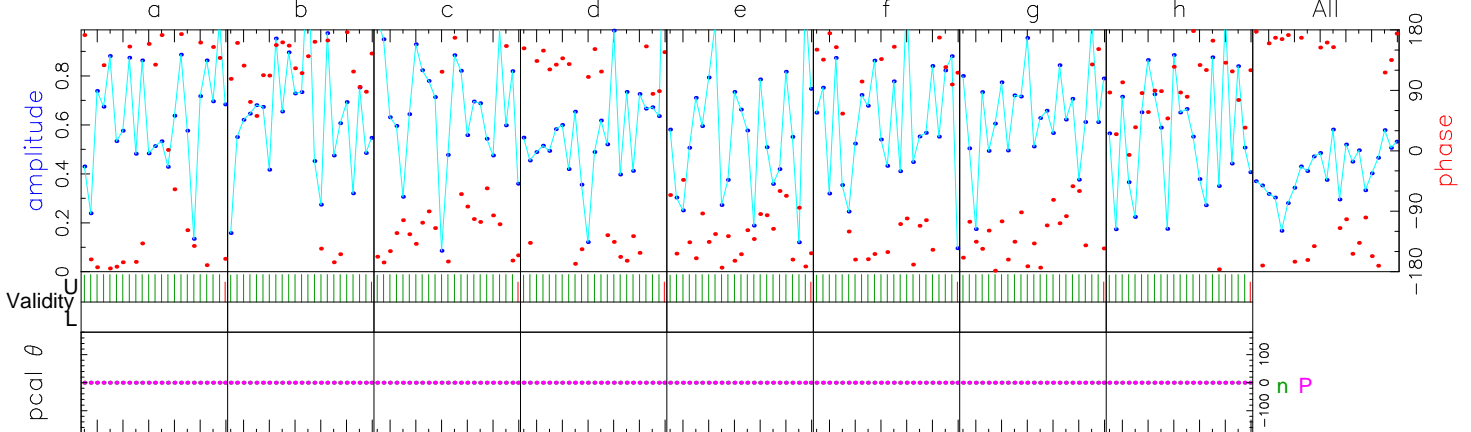


Fringe quality 7

SNR 16.5
Int time 336.738
Amp 0.329
Phase -175.6
PFD 0.0e+00
Delays (us)
SBD 0.008159
MBD 0.000397
Fringe rate (Hz) 0.014426
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

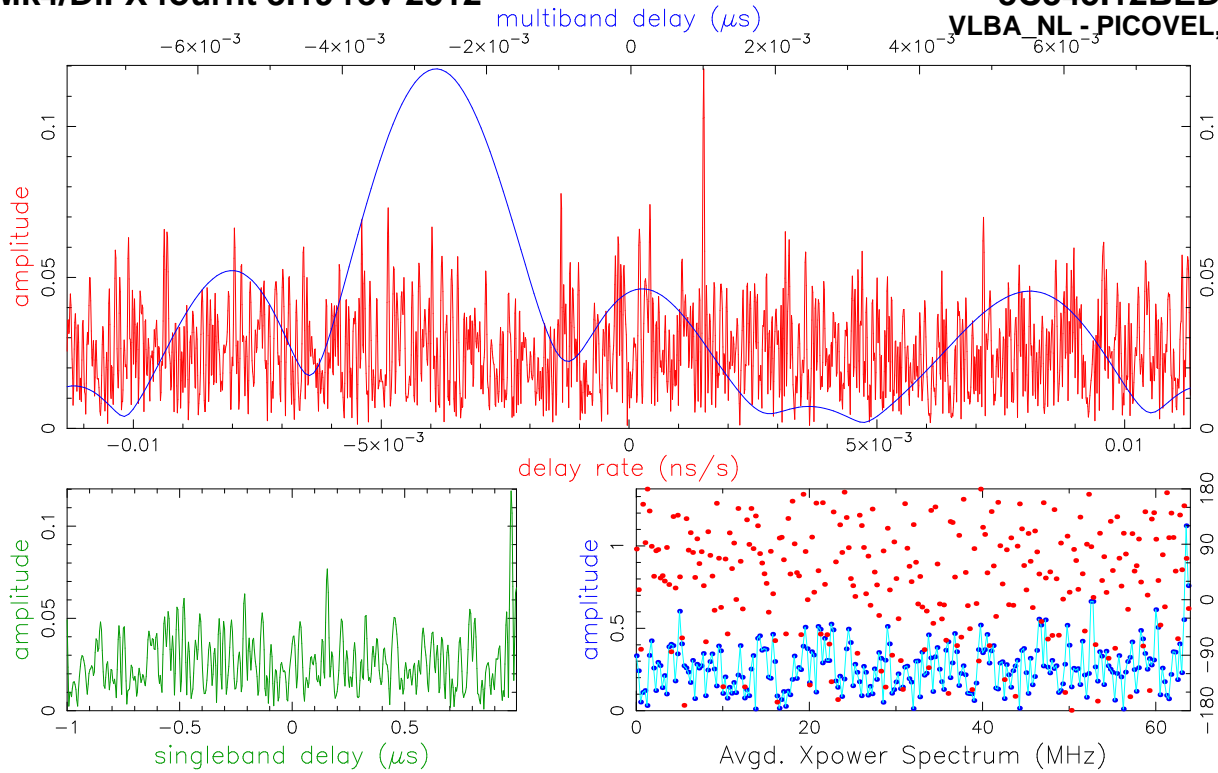
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183122.43
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165647
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 29 APs / seg (14.85 sec / seg.), time ticks 30 sec



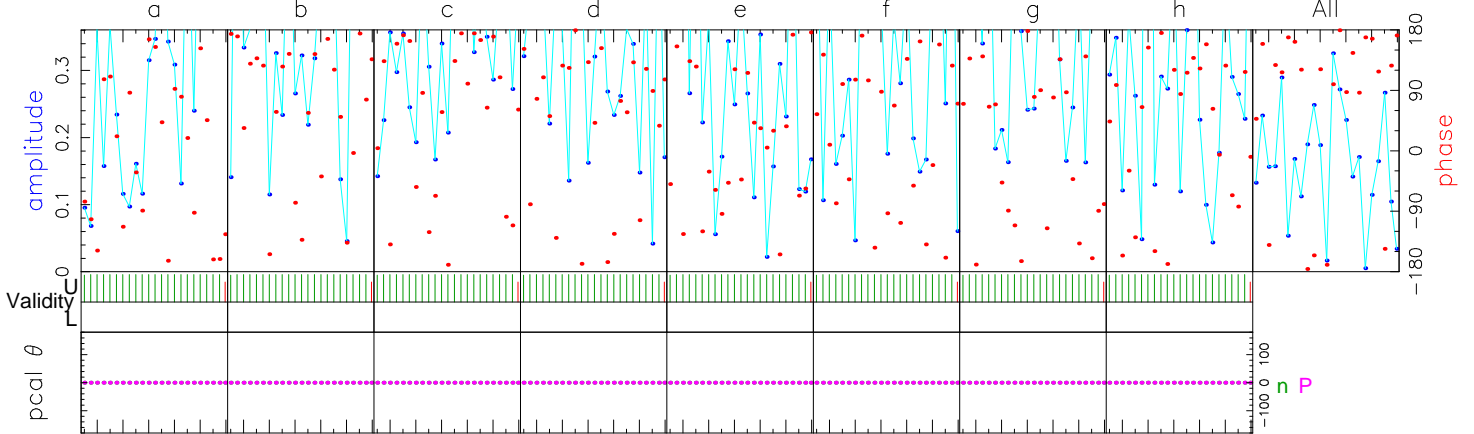
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	178.1	138.2	-127.4	162.9	-126.2	177.5	-135.0	99.8	Phase	-175.6
n	0.5	0.5	0.5	0.4	0.5	0.4	0.5	0.4	Ampl.	0.5
P	258.3	258.7	258.9	258.2	258.3	258.1	258.1	257.9	Sbd box	259.1
n:P	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.12495019227E+03		Apriori delay (usec)		-2.12495058932E+03		Resid mbdelay (usec)		3.97049E-04	+/- 6.6E-05
Sband delay (usec)	-2.12494242982E+03		Apriori clock (usec)		2.6565306E+01		Resid sbdelay (usec)		8.15950E-03	+/- 5.2E-04
Phase delay (usec)	-2.12495059498E+03		Apriori clockrate (us/s)		4.8722349E-07		Resid phdelay (usec)		-5.66196E-06	+/- 2.2E-07
Delay rate (us/s)	1.26460304555E+00		Apriori rate (us/s)		1.26460287808E+00		Resid rate (us/s)		1.67472E-07	+/- 1.1E-09
Total phase (deg)			Apriori accel (us/s/s)		1.60013151196E-05		Resid phase (deg)		-175.6	+/- 6.9

ph/seg (deg) 36.3 16.6 Search (2048X32) 0.326 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 39.5 29.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 52.1 9.8 Inc. seg. avg. 0.394 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 41.3 17.1 Inc. frq. avg. 0.451 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 74.7 el 50.6 pa -69.4 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -9394.473 1590.958 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/nP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/nP.W.267.12BED8



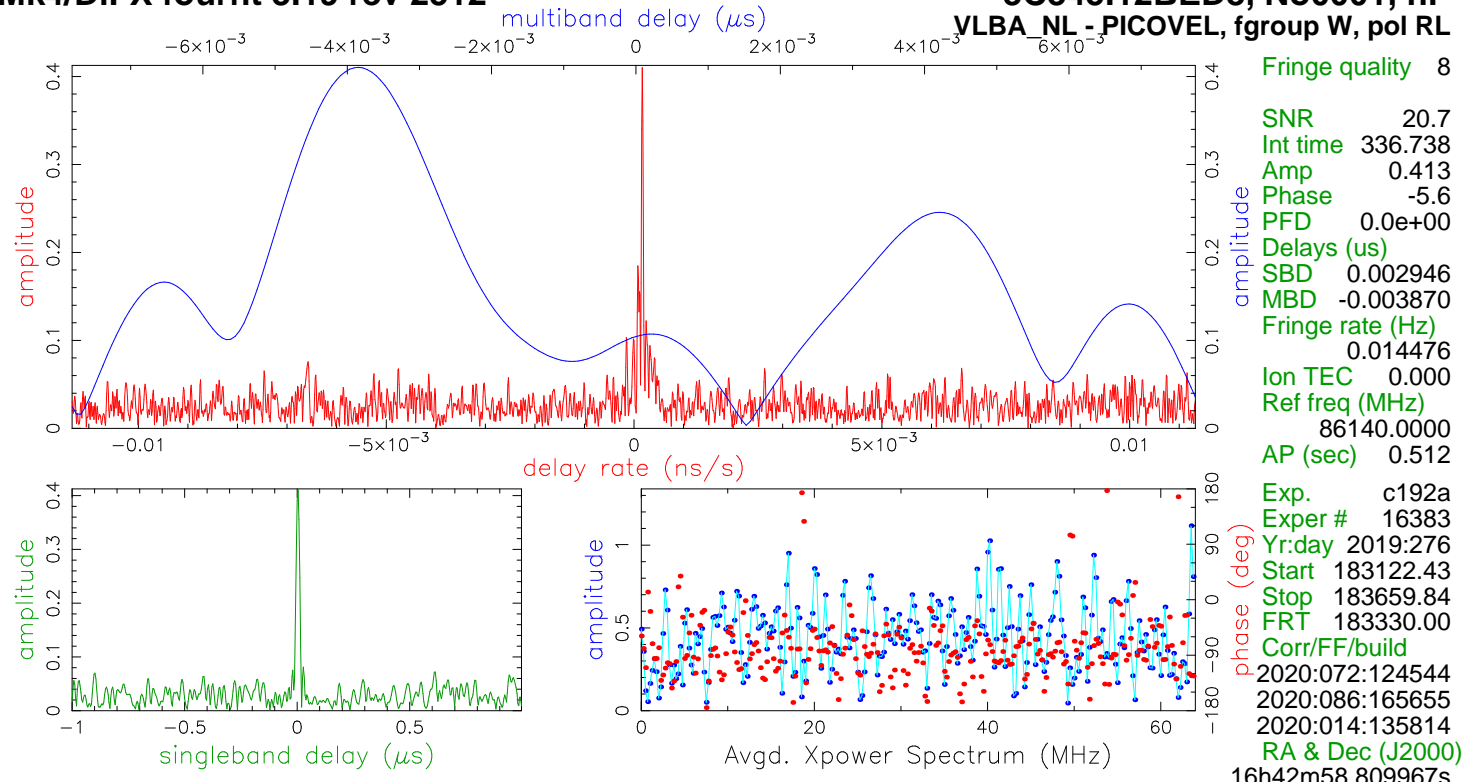
Fringe quality 0
SNR 6.0
Int time 336.738
Amp 0.120
Phase 144.3
PFD 4.2e-01
Delays (us)
SBD 0.973178
MBD -0.002709
Fringe rate (Hz)
0.129905
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183122.43
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165651
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 29 APs / seg (14.85 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	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0		
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	-2.12398454862E+03								Resid mbdelay (usec)	-2.70931E-03 +/- 1.8E-04
Sband delay (usec)	-2.12397741107E+03								Resid sbdelay (usec)	9.73178E-01 +/- 1.4E-03
Phase delay (usec)	-2.12495058466E+03								Resid phdelay (usec)	4.65476E-06 +/- 6.2E-07
Delay rate (us/s)	1.26460438614E+00								Resid rate (us/s)	1.50806E-06 +/- 3.2E-09
Total phase (deg)			-130.6						Resid phase (deg)	144.3 +/- 19.1
	RMS	Theor.	Amplitude	0.120 +/- 0.020					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	43.5	45.9	Search (2048X32)	0.117					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	80.9	80.1	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	32.0	27.1	Inc. seg. avg.	0.126					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	38.6	47.2	Inc. frq. avg.	0.114					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

n: az 74.7 el 50.6 pa -69.4 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -9394.473 1590.958 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/nP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/nP.W.292.12BED8



Fringe quality 8

SNR 20.7

Int time 336.738

Amp 0.413

Phase -5.6

PFD 0.0e+00

Delays (us)

SBD 0.002946

MBD -0.003870

Fringe rate (Hz)

0.014476

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c192a

Exper # 16383

Yr:day 2019:276

Start 183122.43

Stop 183659.84

FRT 183330.00

Corr/FF/build

2020:072:124544

2020:086:165655

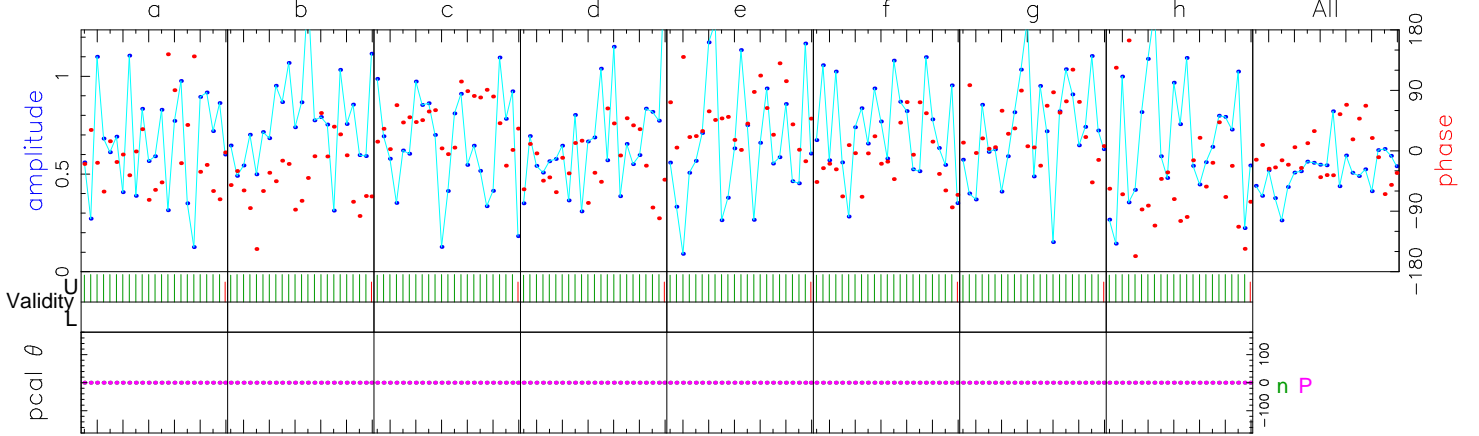
2020:014:135814

RA & Dec (J2000)

16h42m58.809967s

+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 29 APs / seg (14.85 sec / seg.), time ticks 30 sec

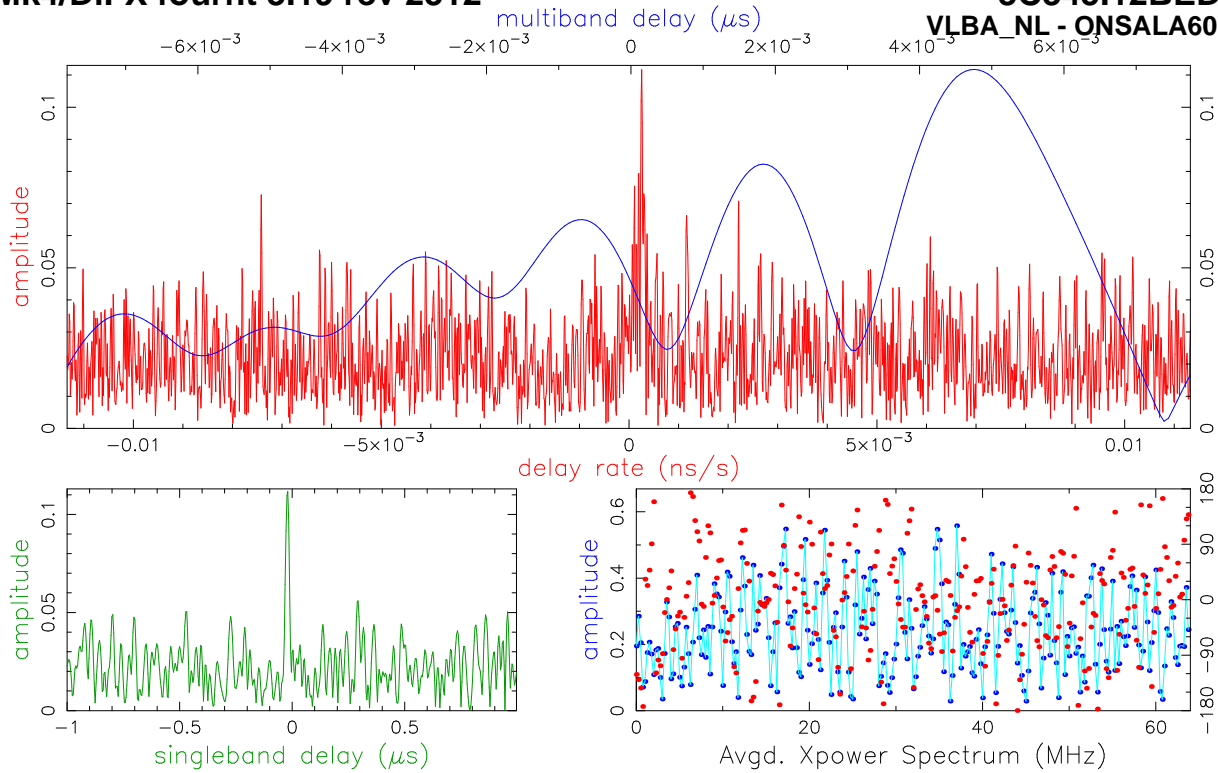


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	659/0	659/0	659/0	659/0	659/0	659/0	659/0	659/0		
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.12495445936E+03				-2.12495058932E+03				Resid mbdelay (usec)	-3.87005E-03 +/- 5.2E-05
Sband delay (usec)	-2.12494764332E+03				2.6565306E+01				Resid sbdelay (usec)	2.94600E-03 +/- 4.2E-04
Phase delay (usec)	-2.12495058950E+03				4.8722349E-07				Resid phdelay (usec)	-1.79398E-07 +/- 1.8E-07
Delay rate (us/s)	1.26460304613E+00				1.26460287808E+00				Resid rate (us/s)	1.68052E-07 +/- 9.2E-10
Total phase (deg)		-280.5			1.60013151196E-05				Resid phase (deg)	-5.6 +/- 5.5

	RMS	Theor.	Amplitude	0.413 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	36.8	13.3	Search (2048X32)	0.406	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	35.9	23.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	44.9	7.8	Inc. seg. avg.	0.501	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	27.6	13.7	Inc. frq. avg.	0.516	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

n: az 74.7 el 50.6 pa -69.4 P: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -9394.473 1590.958 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/nP..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/nP.W.307.12BED8

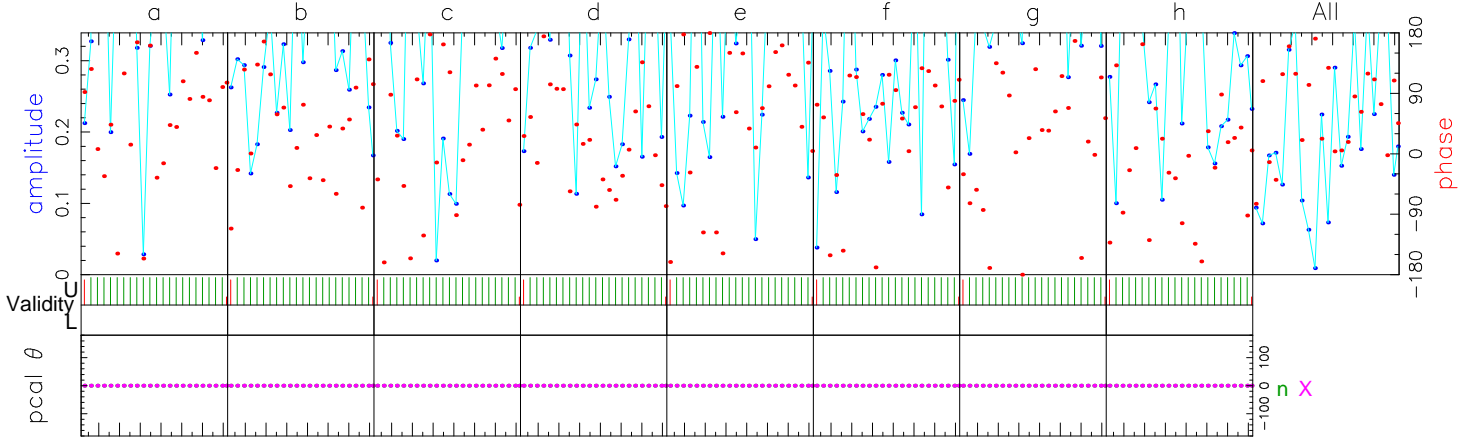


Fringe quality 0

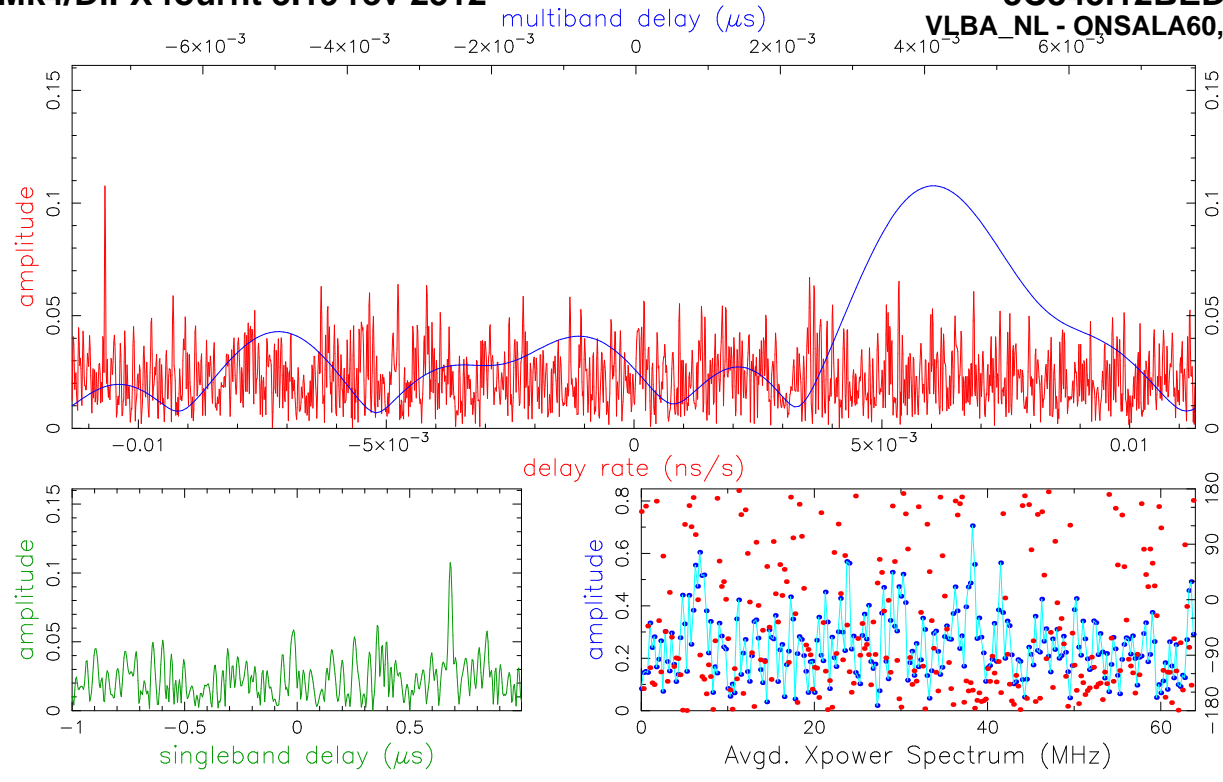
SNR 6.3
Int time 409.325
Amp 0.113
Phase 67.2
PFD 1.0e-01
Delays (us)
SBD -0.021007
MBD 0.004715
Fringe rate (Hz)
0.022305
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165646
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 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	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	-3.61992470809E+02								4.71479E-03	+/- 1.7E-04
Sband delay (usec)	-3.61986942345E+02								-2.10067E-02	+/- 1.4E-03
Phase delay (usec)	-3.61965933429E+02								2.16615E-06	+/- 5.9E-07
Delay rate (us/s)	1.20558341176E+00								2.58942E-07	+/- 2.5E-09
Total phase (deg)			-182.0						67.2	+/- 18.3
Apriori delay (usec)					-3.61965935595E+02				Resid mbdelay (usec)	
Apriori clock (usec)					-5.8499165E+00				Resid sbdelay (usec)	
Apriori clockrate (us/s)					-3.9377651E-07				Resid phdelay (usec)	
Apriori rate (us/s)					1.20558315282E+00				Resid rate (us/s)	
Apriori accel (us/s/s)					-1.08508500335E-05				Resid phase (deg)	
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	
n: az 74.7 el 50.6 pa -69.4	X: az 263.7 el 53.3 pa 44.2		u, v (fr/asec) -9004.546 -1802.418						simultaneous interpolator	

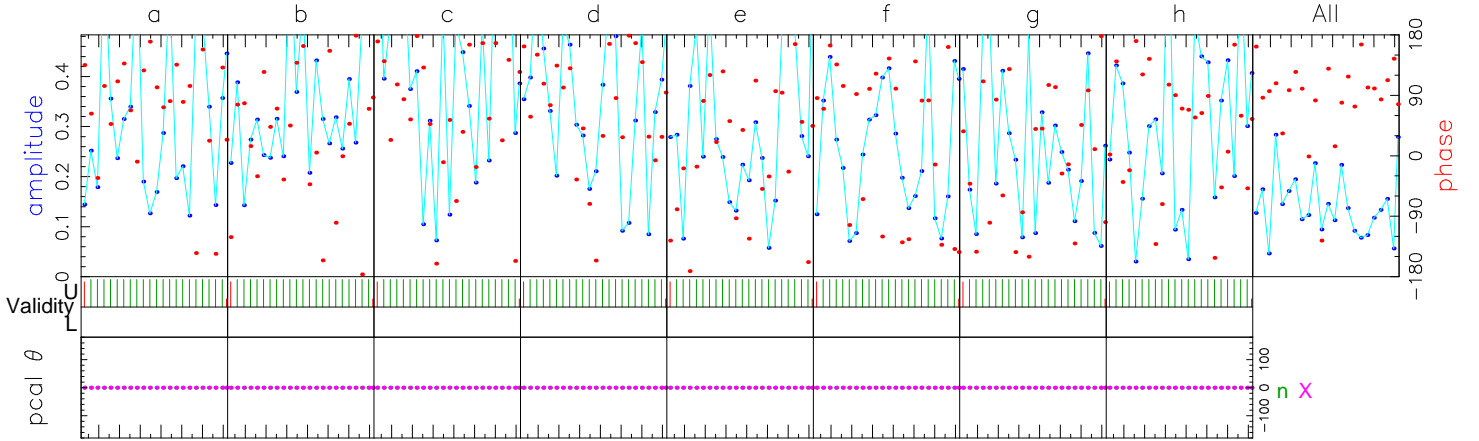


Fringe quality 0

SNR 6.0
 Int time 409.325
 Amp 0.161
 Phase 97.0
 PFD 4.1e-01
 Delays (us)
 SBD 0.680820
 MBD 0.004179
 Fringe rate (Hz)
 -0.921033
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183008.70
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165650
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 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	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
X	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		-3.61289881895E+02				-3.61965935595E+02			4.17870E-03	+/- 1.8E-04
Sband delay (usec)		-3.61285115345E+02				-5.8499165E+00			6.80820E-01	+/- 1.4E-03
Phase delay (usec)		-3.61965932468E+02				-3.9377651E-07			3.12688E-06	+/- 6.2E-07
Delay rate (us/s)		1.20557246054E+00				1.20558315282E+00			-1.06923E-05	+/- 2.6E-09
Total phase (deg)			-152.2			-1.08508500335E-05			97.0	+/- 19.1
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

ph/seg (deg) 49.4 45.8
 amp/seg (%) 61.4 80.0
 ph/frq (deg) 27.4 27.0
 amp/frq (%) 47.3 47.2

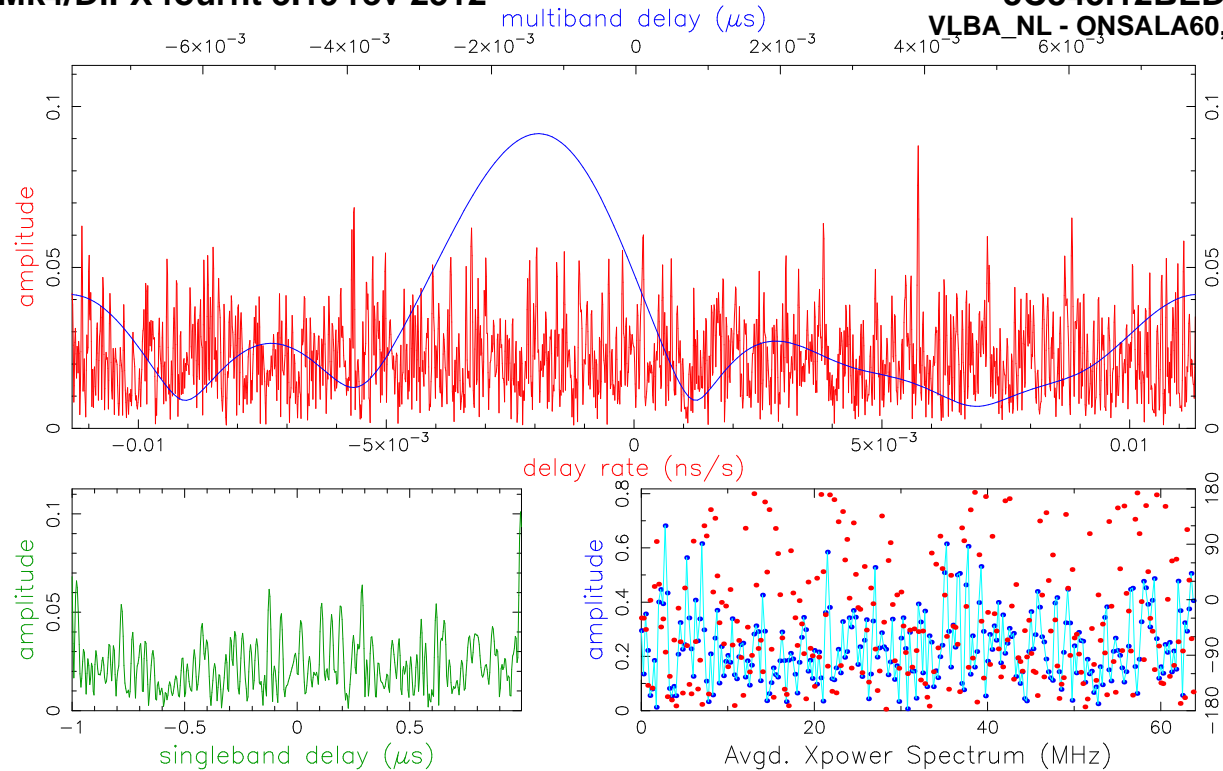
RMS Theor. Amplitude 0.161 +/- 0.027
 Search (2048X32) 0.105
 Interp. 0.000
 Inc. seg. avg. 0.158
 Inc. frq. avg. 0.155

PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 SampCntNorm: enabled
 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

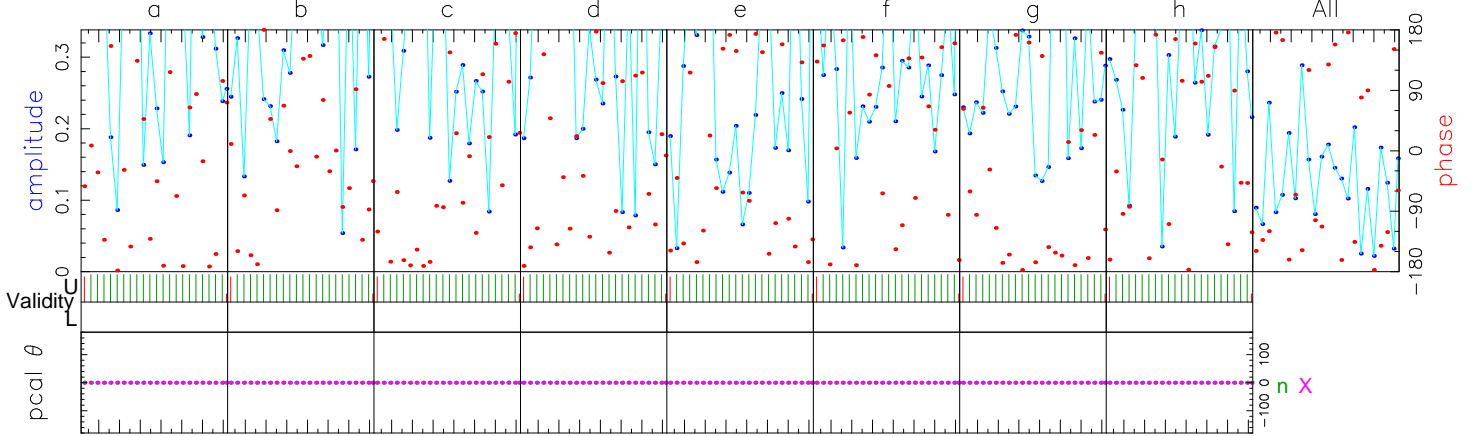
n: az 74.7 el 50.6 pa -69.4 X: az 263.7 el 53.3 pa 44.2 u,v (fr/asec) -9004.546 -1802.418 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/nX..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/nX.W.286.12BED8



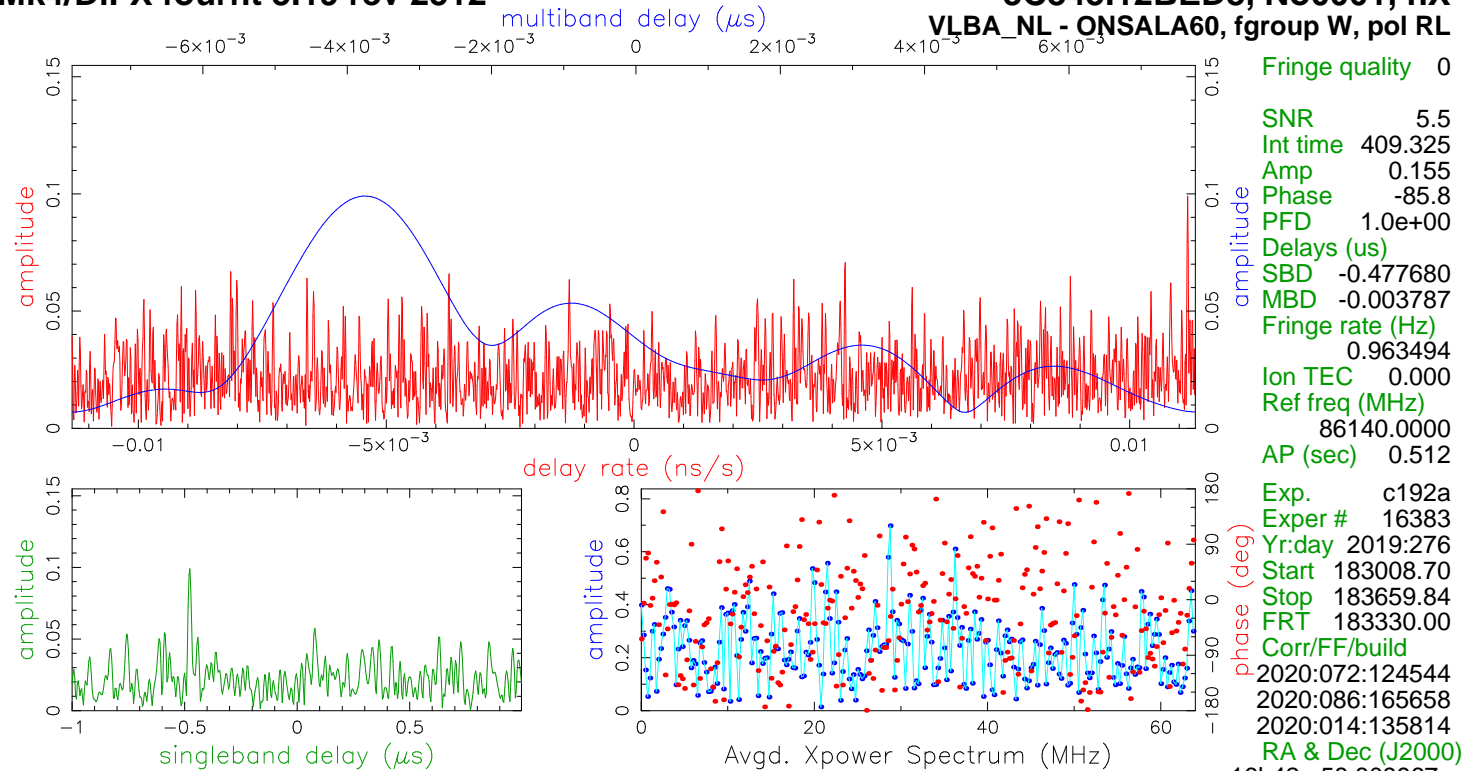
Fringe quality 0
SNR 5.6
Int time 409.325
Amp 0.113
Phase -157.6
PFD 9.9e-01
Delays (us)
SBD 0.992717
MBD -0.000979
Fringe rate (Hz)
0.494942
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183008.70
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165654
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

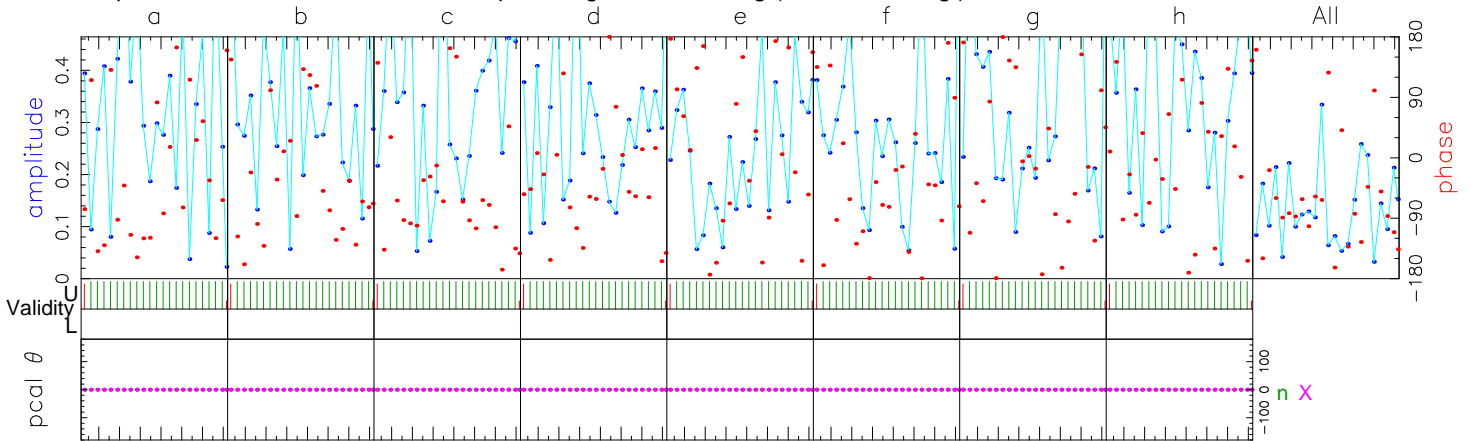


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	178.5	-52.7	-140.7	-125.8	-161.1	152.3	-159.4	-178.7	Phase	-157.6
	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.1	Ampl.	0.1
	331.2	57.2	194.4	478.7	261.7	254.7	424.7	330.5	Sbd box	511.1
U/L	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.60966914709E+02		Apriori delay (usec)		-3.61965935595E+02		Resid mbdelay (usec)		-9.79114E-04	+/- 1.9E-04
Sband delay (usec)	-3.60973218595E+02		Apriori clock (usec)		-5.8499165E+00		Resid sbdelay (usec)		9.92717E-01	+/- 1.5E-03
Phase delay (usec)	-3.61965940678E+02		Apriori clockrate (us/s)		-3.9377651E-07		Resid phdelay (usec)		-5.08342E-06	+/- 6.6E-07
Delay rate (us/s)	1.20558889860E+00		Apriori rate (us/s)		1.20558315282E+00		Resid rate (us/s)		5.74578E-06	+/- 2.8E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.08508500335E-05		Resid phase (deg)		-157.6	+/- 20.5

ph/seg (deg) 55.5 49.0 Search (2048X32) 0.099 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 70.6 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) 51.4 28.9 Inc. seg. avg. 0.105 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 37.2 50.5 Inc. frq. avg. 0.103 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
n: az 74.7 el 50.6 pa -69.4 X: az 263.7 el 53.3 pa 44.2 u,v (fr/asec) -9004.546 -1802.418 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/nX..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/nX.W.306.12BED8 simultaneous interpolator

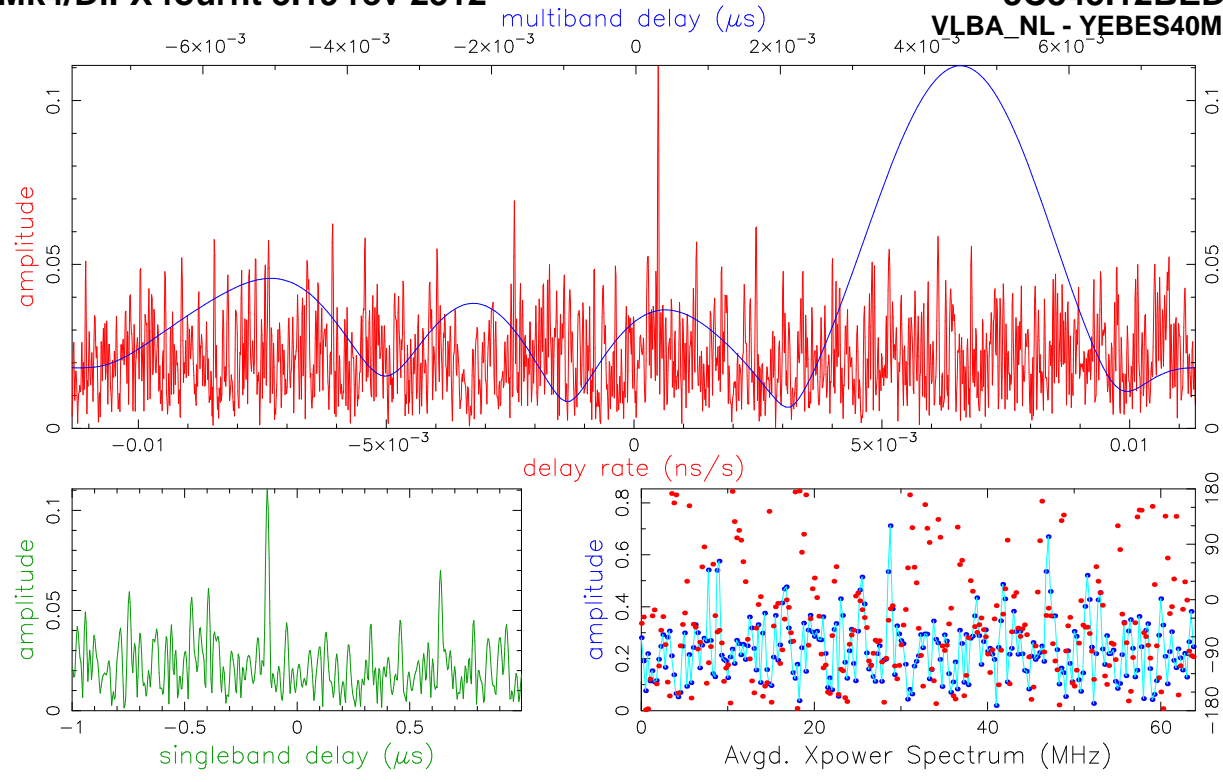


Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-90.3	-102.1	-84.8	-51.0	-174.1	-92.7	-118.4	-53.1	Phase	-85.8
	0.2	0.2	0.3	0.2	0.0	0.1	0.1	0.1	Ampl.	0.1
	133.5	143.7	134.4	304.0	207.9	13.1	464.9	366.0	Sbd box	134.7
U/L	802/0	802/0	802/0	802/0	802/0	802/0	802/0	802/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.62438472737E+02		Apriori delay (usec)		-3.61965935595E+02		Resid mbdelay (usec)		-3.78714E-03	+/- 2.0E-04
Sband delay (usec)	-3.62443615345E+02		Apriori clock (usec)		-5.8499165E+00		Resid sbdelay (usec)		-4.77680E-01	+/- 1.6E-03
Phase delay (usec)	-3.61965938360E+02		Apriori clockrate (us/s)		-3.9377651E-07		Resid phdelay (usec)		-2.76531E-06	+/- 6.7E-07
Delay rate (us/s)	1.20559433803E+00		Apriori rate (us/s)		1.20558315282E+00		Resid rate (us/s)		1.11852E-05	+/- 2.8E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.08508500335E-05		Resid phase (deg)		-85.8	+/- 20.7

	RMS	Theor.	Amplitude	0.155 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	68.9	49.7	Search (2048X32)	0.096	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	86.8	86.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	43.8	29.3	Inc. seg. avg.	0.157	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	51.0	51.2	Inc. frq. avg.	0.149	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
n: az 74.7 el 50.6 pa -69.4	X: az 263.7 el 53.3 pa 44.2		u, v (fr/asec) -9004.546 -1802.418		ion window (TEC) 0.00 0.00	

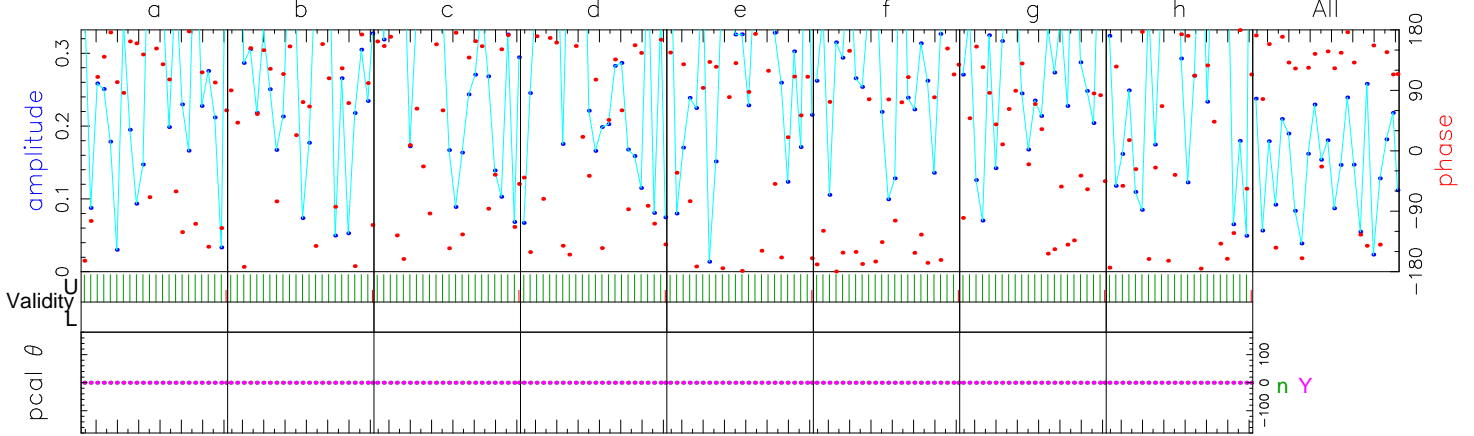


Fringe quality 0

SNR 6.1
Int time 401.317
Amp 0.111
Phase 156.6
PFD 3.0e-01
Delays (us)
SBD -0.132715
MBD 0.004498
Fringe rate (Hz)
0.042125
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183017.92
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:072:124544
2020:086:165645
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



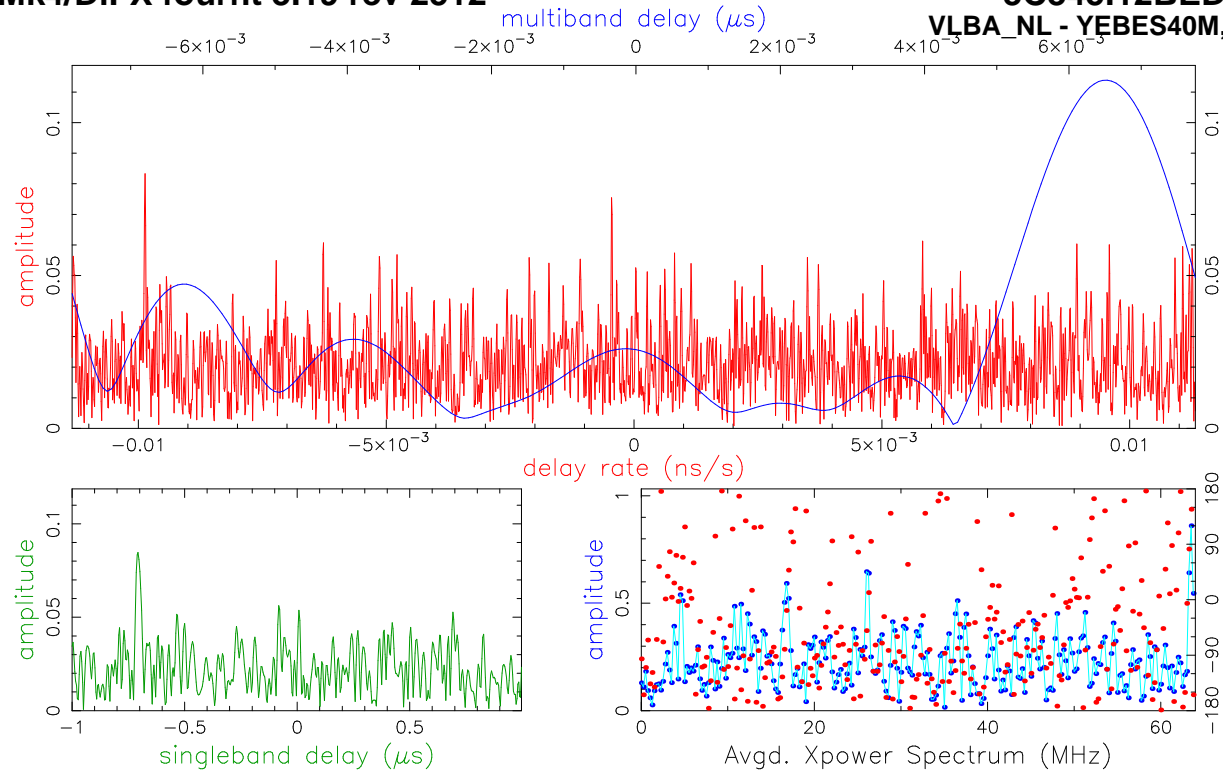
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-2.23108311484E+03	Apriori delay (usec)	-2.23094698734E+03	Resid mbdelay (usec)	4.49751E-03	+/-	1.8E-04
Sband delay (usec)	-2.23107970259E+03	Apriori clock (usec)	1.6823357E+01	Resid sbdelay (usec)	-1.32715E-01	+/-	1.4E-03
Phase delay (usec)	-2.23094698229E+03	Apriori clockrate (us/s)	-8.5776492E-08	Resid phdelay (usec)	5.04937E-06	+/-	6.1E-07
Delay rate (us/s)	1.24174276081E+00	Apriori rate (us/s)	1.24174227179E+00	Resid rate (us/s)	4.89029E-07	+/-	2.6E-09
Total phase (deg)	-19.7	Apriori accel (us/s/s)	1.31303277888E-05	Resid phase (deg)	156.6	+/-	18.9

ph/seg (deg)	54.6	Theor.	45.3	Amplitude	0.111 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	71.0		79.1	Search (2048X32)	0.109	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	47.2		26.7	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	39.8		46.7	Inc. seg. avg.	0.114	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.113	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

n: az 74.7 el 50.6 pa -69.4 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -9229.806 1082.076 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/nY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/nY.W.254.12BED8

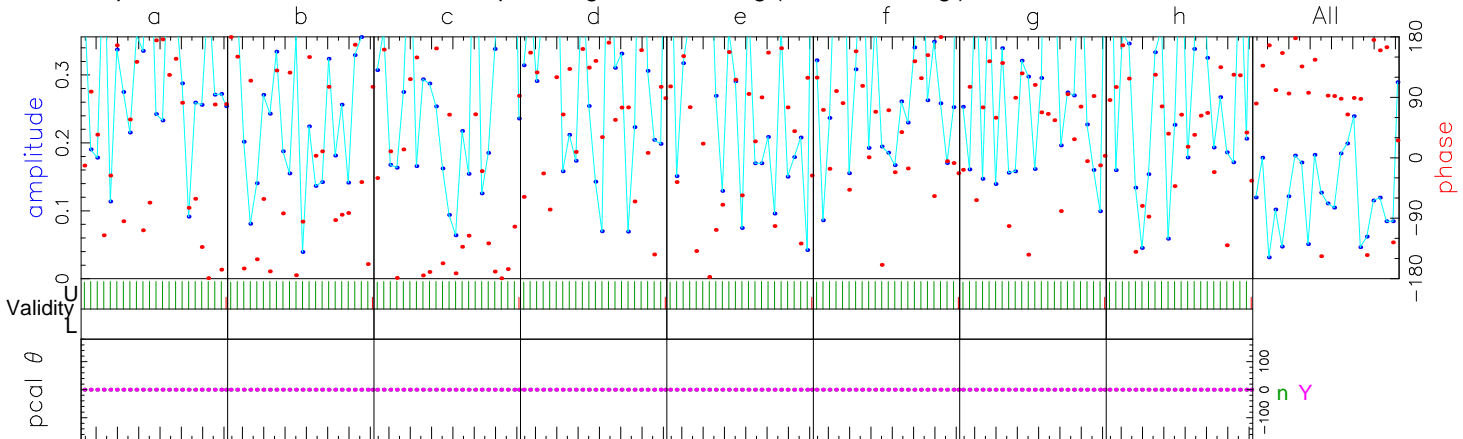


Fringe quality 0

SNR 4.7
 Int time 401.317
 Amp 0.119
 Phase 122.0
 PFD 1.0e+00
 Delays (us)
 SBD -0.708251
 MBD -0.008301
 Fringe rate (Hz)
 -0.851194
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

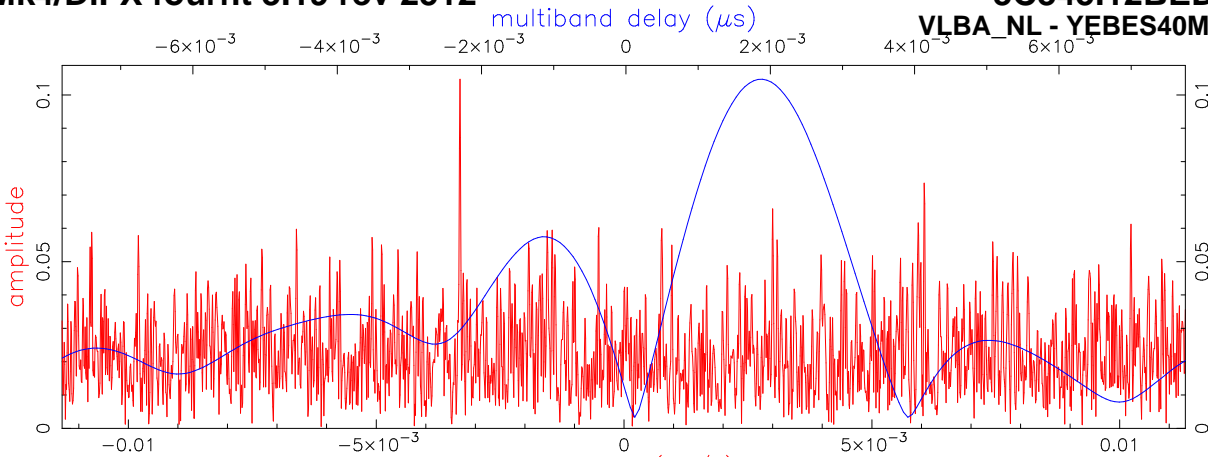
Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183017.92
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165654
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



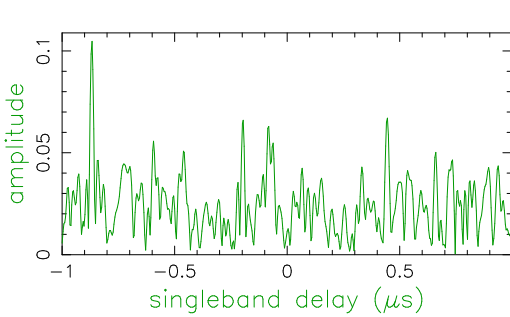
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-174.7	-177.5	179.9	127.8	129.5	80.4	70.8	82.1	Phase	122.0
	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	Ampl.	0.1
	78.6	259.7	198.9	270.9	386.7	419.3	54.8	94.2	Sbd box	75.7
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.23165841312E+03		Apriori delay (usec)		-2.23094698734E+03		Resid mbdelay (usec)		-8.30078E-03	+/- 2.3E-04
Sband delay (usec)	-2.23165523784E+03		Apriori clock (usec)		1.6823357E+01		Resid sbdelay (usec)		-7.08251E-01	+/- 1.9E-03
Phase delay (usec)	-2.23094698341E+03		Apriori clockrate (us/s)		-8.5776492E-08		Resid phdelay (usec)		3.93521E-06	+/- 7.9E-07
Delay rate (us/s)	1.24173239027E+00		Apriori rate (us/s)		1.24174227179E+00		Resid rate (us/s)		-9.88151E-06	+/- 3.4E-09
Total phase (deg)			Apriori accel (us/s/s)		1.31303277888E-05		Resid phase (deg)		122.0	+/- 24.6

ph/seg (deg) 51.3 59.0 Search (2048X32) 0.111 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 84.2 103.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 53.3 34.8 Inc. seg. avg. 0.113 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 48.1 60.8 Inc. frq. avg. 0.139 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 n: az 74.7 el 50.6 pa -69.4 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -9229.806 1082.076 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/nY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/nY.W.302.12BED8

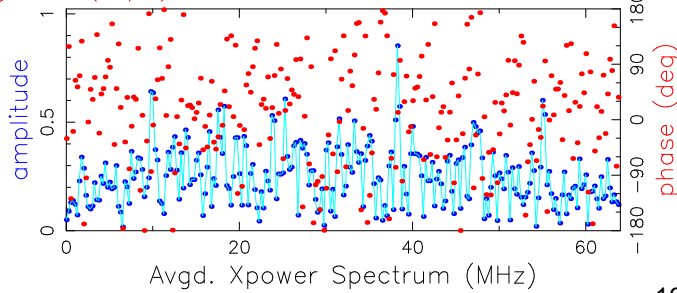


Fringe quality 0

SNR 5.8
 Int time 401.317
 Amp 0.109
 Phase 89.0
 PFD 8.8e-01
 Delays (us)
 SBD -0.867948
 MBD 0.001848
 Fringe rate (Hz)
 -0.285281
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

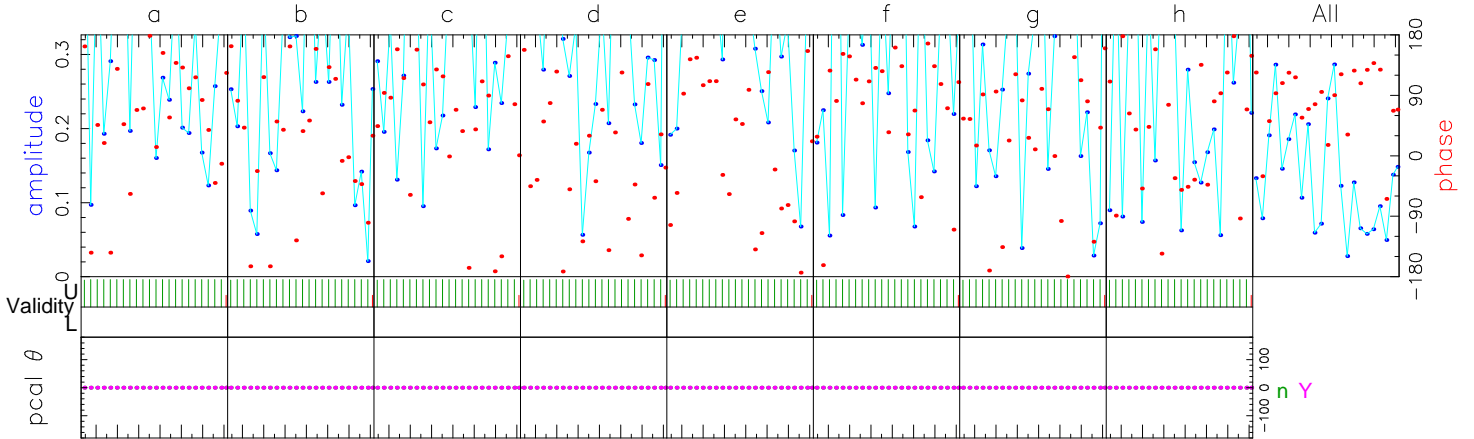


delay rate (ns/s)



Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183017.92
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165658
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 35 APs / seg (17.92 sec / seg.), time ticks 30 sec



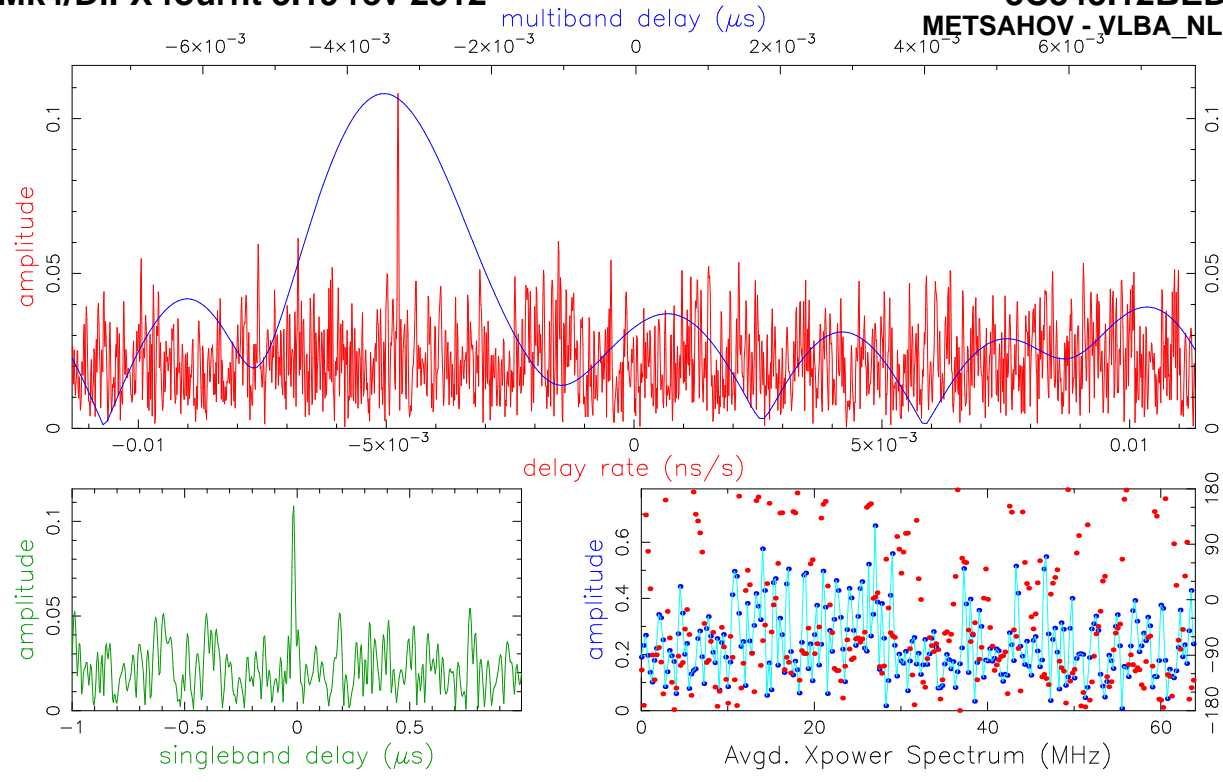
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	94.1	72.4	92.8	34.9	105.7	112.5	86.5	57.7	Phase	89.0
	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1
	275.3	31.8	34.9	493.3	453.9	34.9	27.8	66.9	Sbd box	34.8
U/L	785/0	785/0	785/0	785/0	785/0	785/0	785/0	785/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
n:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-2.23182013915E+03	Apriori delay (usec)	-2.23094698734E+03	Resid mbdelay (usec)	1.84819E-03	+/-	1.9E-04
Sband delay (usec)	-2.23181493534E+03	Apriori clock (usec)	1.6823357E+01	Resid sbdelay (usec)	-8.67948E-01	+/-	1.5E-03
Phase delay (usec)	-2.23094698447E+03	Apriori clockrate (us/s)	-8.5776492E-08	Resid phdelay (usec)	2.87040E-06	+/-	6.4E-07
Delay rate (us/s)	1.24173895996E+00	Apriori rate (us/s)	1.24174227179E+00	Resid rate (us/s)	-3.31183E-06	+/-	2.8E-09
Total phase (deg)	-87.2	Apriori accel (us/s/s)	1.31303277888E-05	Resid phase (deg)	89.0	+/-	19.9

ph/seg (deg)	52.6	Theor.	47.7	Amplitude	0.109 +/- 0.019	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	76.5		83.3	Search (2048X32)	0.104	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	29.0		28.2	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	46.1		49.1	Inc. seg. avg.	0.104	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.104	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

n: az 74.7 el 50.6 pa -69.4 Y: az 280.2 el 62.9 pa 76.6 u,v (fr/asec) -9229.806 1082.076 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/nY..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/nY.W.321.12BED8

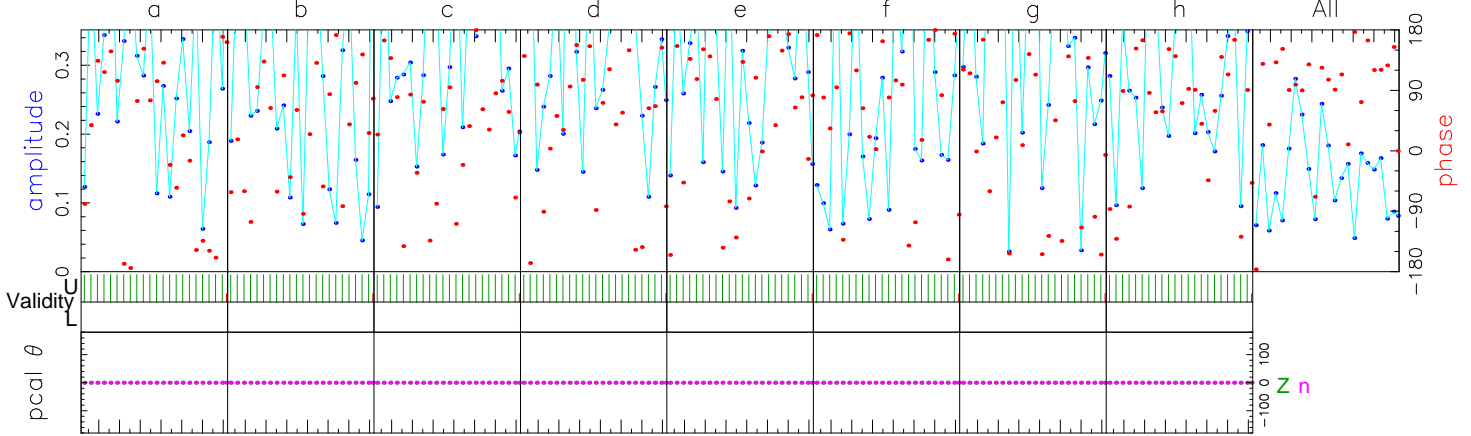


Fringe quality 0

SNR 6.0
 Int time 410.457
 Amp 0.117
 Phase 111.4
 PFD 3.5e-01
 Delays (us)
 SBD -0.016618
 MBD -0.003520
 Fringe rate (Hz)
 -0.411088
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183008.70
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165657
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

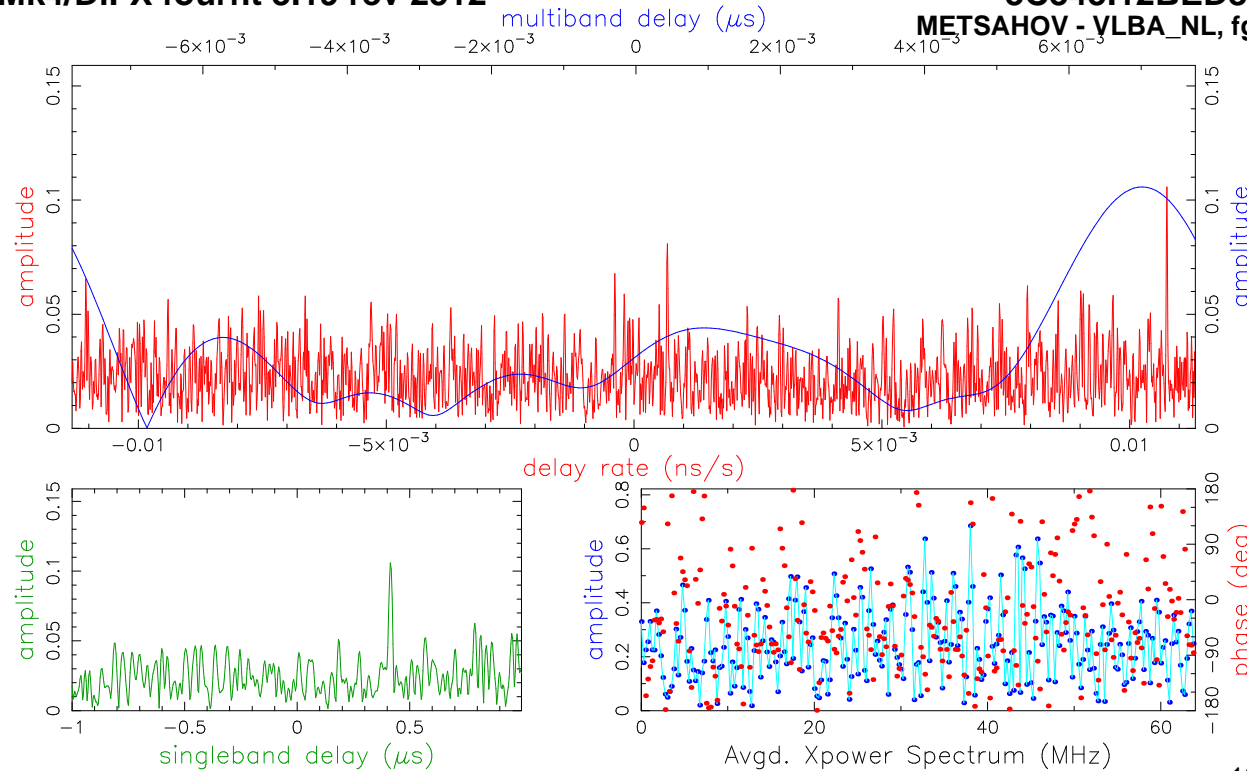
Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-1.24726966143E+03	Apriori delay (usec)	-1.24725051616E+03	Resid mbdelay (usec)	-3.52027E-03	+/-	1.8E-04
Sband delay (usec)	-1.24726713416E+03	Apriori clock (usec)	-2.6293127E+01	Resid sbdelay (usec)	-1.66180E-02	+/-	1.4E-03
Phase delay (usec)	-1.24725051256E+03	Apriori clockrate (us/s)	-1.1793070E-07	Resid phdelay (usec)	3.59265E-06	+/-	6.1E-07
Delay rate (us/s)	-1.23492178259E+00	Apriori rate (us/s)	-1.23491701027E+00	Resid rate (us/s)	-4.77232E-06	+/-	2.6E-09
Total phase (deg)	-54.8	Apriori accel (us/s/s)	2.10846431478E-05	Resid phase (deg)	111.4	+/-	19.0

ph/seg (deg)	56.8	Theor.	45.6	Amplitude	0.117 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	63.2		79.6	Search (2048X32)	0.107	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	36.4		26.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	24.7		46.9	Inc. seg. avg.	0.114	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
				Inc. frq. avg.	0.119	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
Z: az 271.4 el 46.7 pa 40.3		n: az 74.7 el 50.6 pa -69.4		u,v (fr/asec)	9241.054 2643.159		simultaneous interpolator

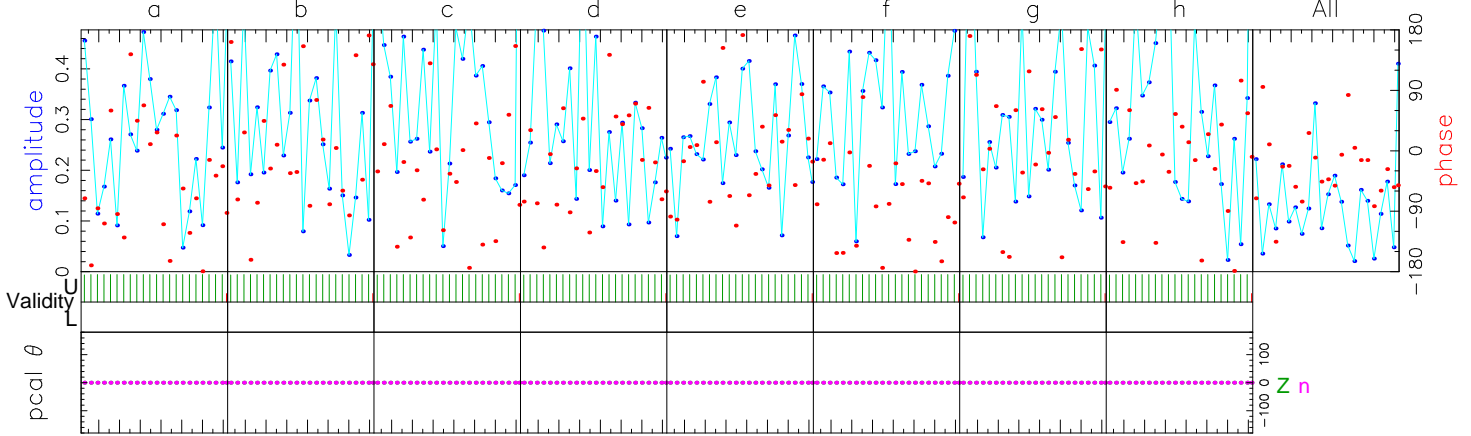


Fringe quality 0

SNR 5.9
 Int time 410.457
 Amp 0.159
 Phase -30.5
 PFD 6.3e-01
 Delays (us)
 SBD 0.415008
 MBD 0.007008
 Fringe rate (Hz)
 0.927052
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

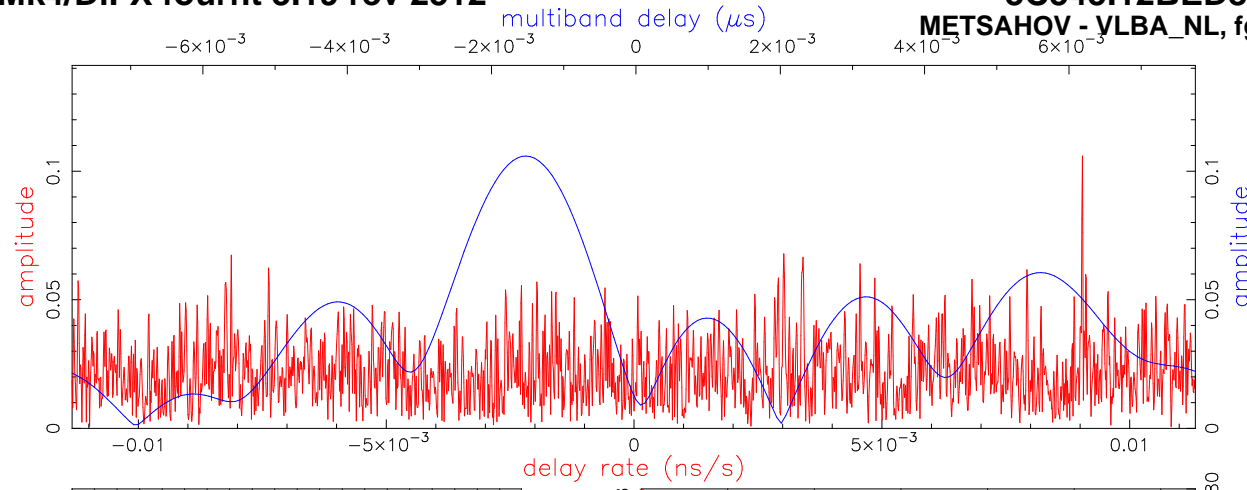
Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183008.70
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165701
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec

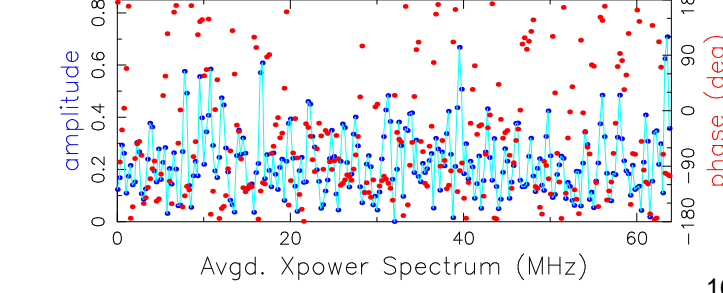
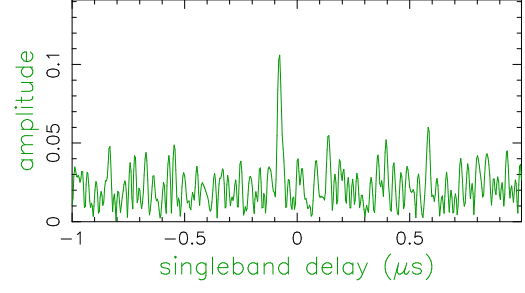


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	-44.4	-14.2	-31.3	-20.6	-16.8	-71.5	-15.0	-13.0		Phase	-30.5
	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2		Ampl.	0.2
	106.9	13.8	510.7	224.7	179.0	204.3	154.5	363.1		Sbd box	363.2
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000			
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	
										Tracks	
Group delay (usec)(sbd)	-1.24683725794E+03		Apriori delay (usec)		-1.24725051616E+03		Resid mbdelay (usec)		7.00822E-03	+/-	1.8E-04
Sband delay (usec)	-1.24683550766E+03		Apriori clock (usec)		-2.6293127E+01		Resid sbdelay (usec)		4.15008E-01	+/-	1.5E-03
Phase delay (usec)	-1.24725051714E+03		Apriori clockrate (us/s)		-1.1793070E-07		Resid phdelay (usec)		-9.84630E-07	+/-	6.3E-07
Delay rate (us/s)	-1.23490624812E+00		Apriori rate (us/s)		-1.23491701027E+00		Resid rate (us/s)		1.07622E-05	+/-	2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		2.10846431478E-05		Resid phase (deg)		-30.5	+/-	19.5

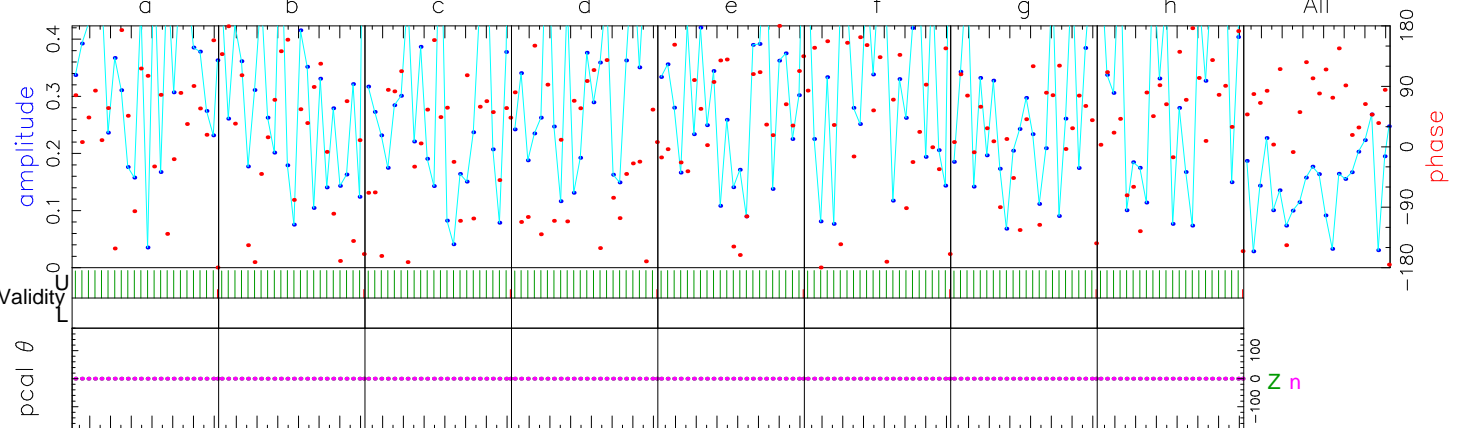
ph/seg (deg) 50.4 46.7 Search (2048X32) 0.104 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 77.6 81.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 22.3 27.5 Inc. seg. avg. 0.145 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.2 48.0 Inc. frq. avg. 0.152 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 271.4 el 46.7 pa 40.3 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) 9241.054 2643.159 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Zn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Zn.W.332.12BED8



Fringe quality 0
 SNR 5.9
 Int time 410.457
 Amp 0.141
 Phase 73.2
 PFD 5.5e-01
 Delays (us)
 SBD -0.079467
 MBD -0.001533
 Fringe rate (Hz)
 0.779977
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183008.70
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:072:124544
 2020:086:165704
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

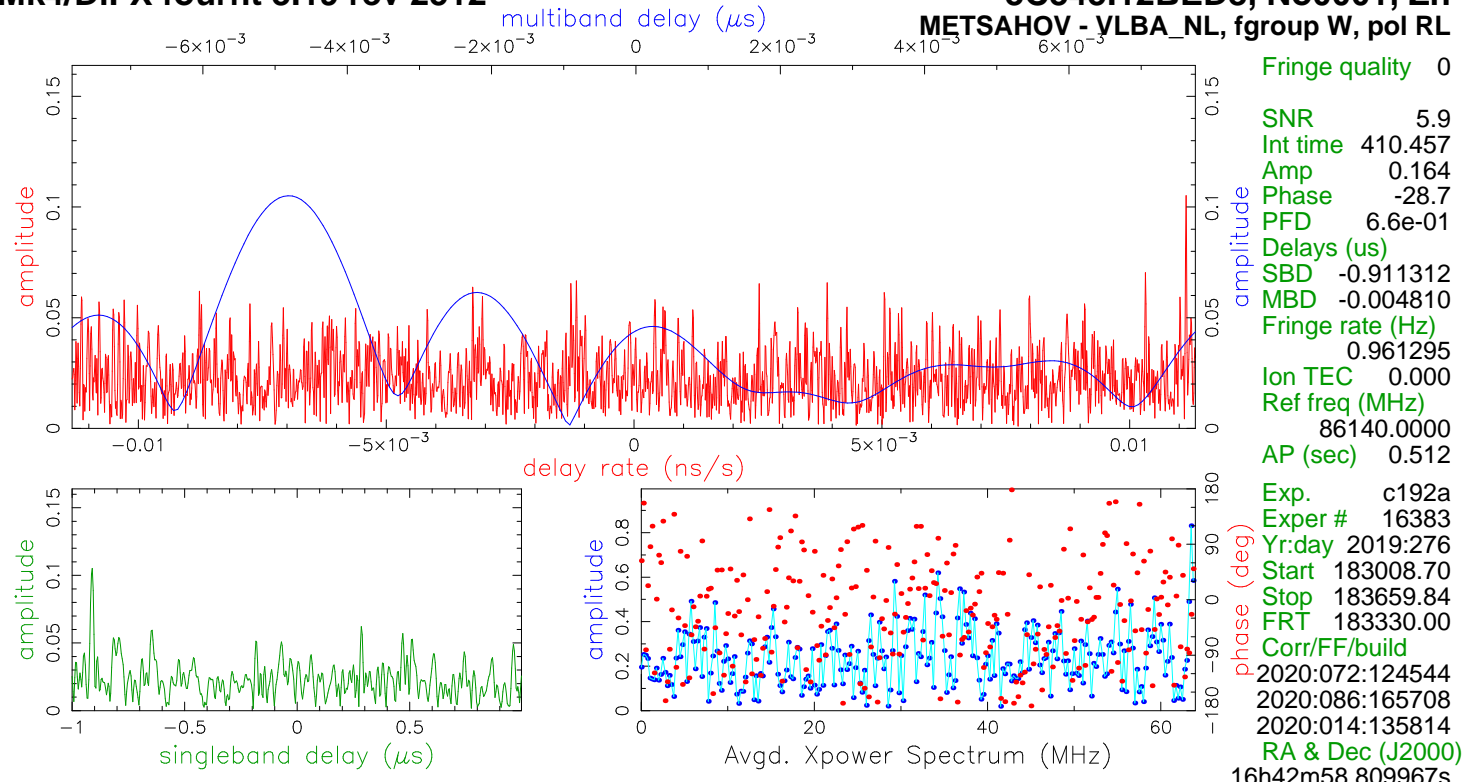


Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-1.24733017452E+03									
Sband delay (usec)	-1.24732998316E+03									
Phase delay (usec)	-1.24725051379E+03									
Delay rate (us/s)	-1.23490795552E+00									
Total phase (deg)			-93.0							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									73.2	+/- 19.3
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
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								

Z: az 271.4 el 46.7 pa 40.3 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) 9241.054 2643.159 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Zn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Zn.W.344.12BED8



Fringe quality 0

SNR 5.9

Int time 410.457

Amp 0.164

Phase -28.7

PFD 6.6e-01

Delays (us)

SBD -0.911312

MBD -0.004810

Fringe rate (Hz)

0.961295

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c192a

Exper # 16383

Yr:day 2019:276

Start 183008.70

Stop 183659.84

FRT 183330.00

Corr/FF/build

2020:072:124544

2020:086:165708

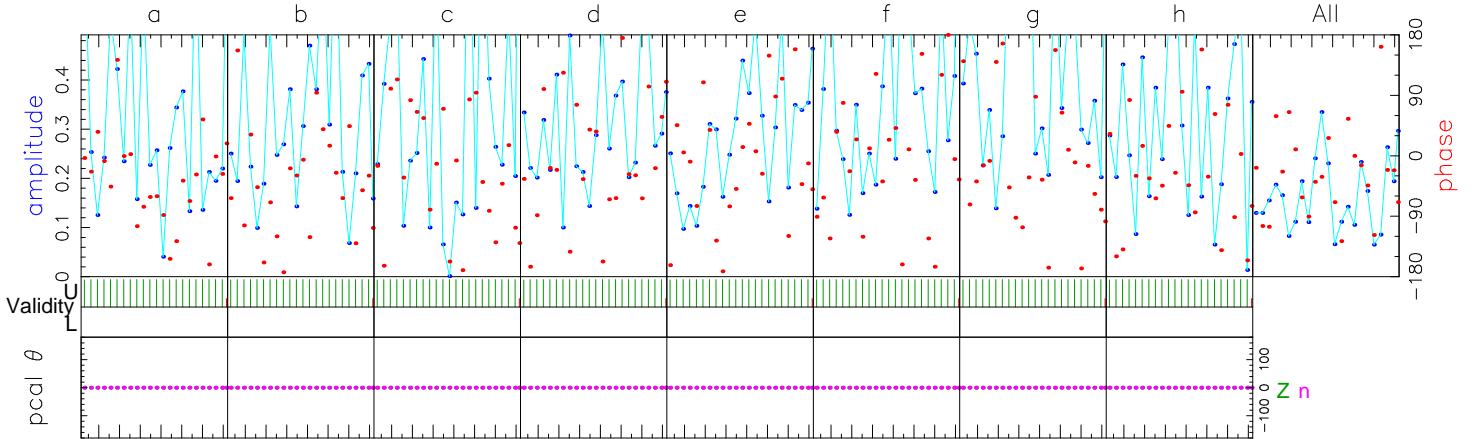
2020:014:135814

RA & Dec (J2000)

16h42m58.809967s

+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 36 APs / seg (18.43 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
	-35.5	-44.7	25.8	-40.6	9.0	-17.3	-51.7	-24.1	Phase	-28.7
	0.3	0.2	0.1	0.1	0.1	0.1	0.3	0.2	Ampl.	0.2
	90.9	376.9	239.7	388.2	371.4	484.3	22.6	334.1	Sbd box	23.7
U/L	803/0	803/0	803/0	803/0	803/0	803/0	803/0	803/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.24816157619E+03		Apriori delay (usec)		-1.24725051616E+03		Resid mbdelay (usec)		-4.81003E-03	+/- 1.8E-04
Sband delay (usec)	-1.24816182791E+03		Apriori clock (usec)		-2.6293127E+01		Resid sbdelay (usec)		-9.11312E-01	+/- 1.5E-03
Phase delay (usec)	-1.24725051708E+03		Apriori clockrate (us/s)		-1.1793070E-07		Resid phdelay (usec)		-9.26015E-07	+/- 6.3E-07
Delay rate (us/s)	-1.23490585059E+00		Apriori rate (us/s)		-1.23491701027E+00		Resid rate (us/s)		1.11597E-05	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		2.10846431478E-05		Resid phase (deg)		-28.7	+/- 19.5

ph/seg (deg) 65.1 46.8 Amplitude 0.164 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 84.2 81.7 Interp. 0.102 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 30.3 27.6 Inc. seg. avg. 0.188 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 45.1 48.2 Inc. frq. avg. 0.159 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

Z: az 271.4 el 46.7 pa 40.3 n: az 74.7 el 50.6 pa -69.4 u,v (fr/asec) 9241.054 2643.159 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0001/Zn..12BED8 Output file: /Exps/c192a/v1_PV/1234/No0001/Zn.W.354.12BED8