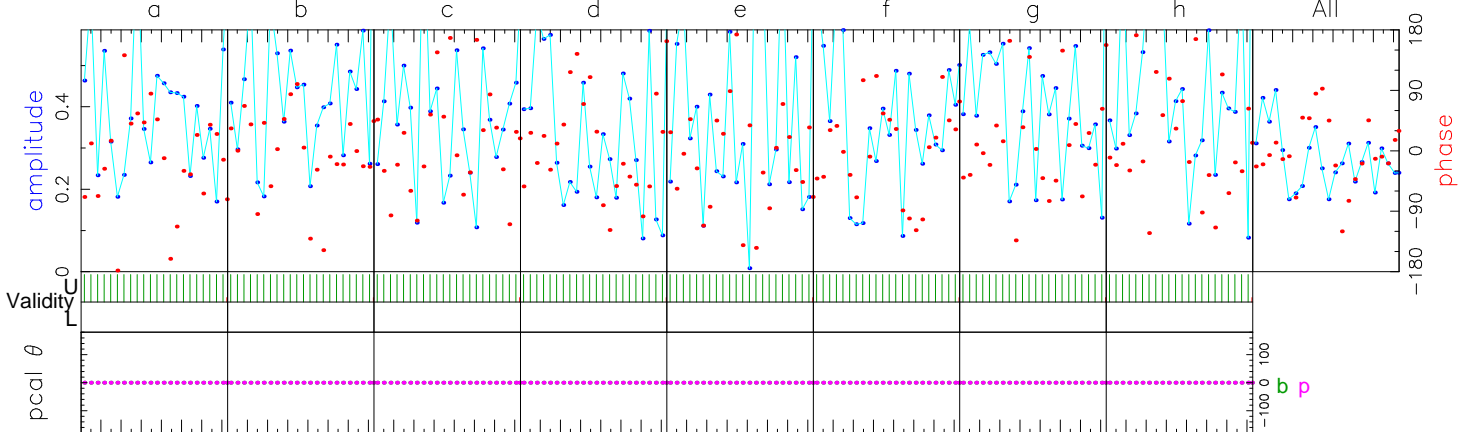


Fringe quality 9
 SNR 11.0
 Int time 419.819
 Amp 0.196
 Phase -1.2
 PFD 2.9e-19
 Delays (us)
 SBD 0.001325
 MBD 0.000671
 Fringe rate (Hz) -0.004291
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c192a
 Exper # 16383
 Yr:day 2019:277
 Start 000001.00
 Stop 000700.84
 FRT 000331.00
 Corr/FF/build
 2020:072:202201
 2020:086:175250
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

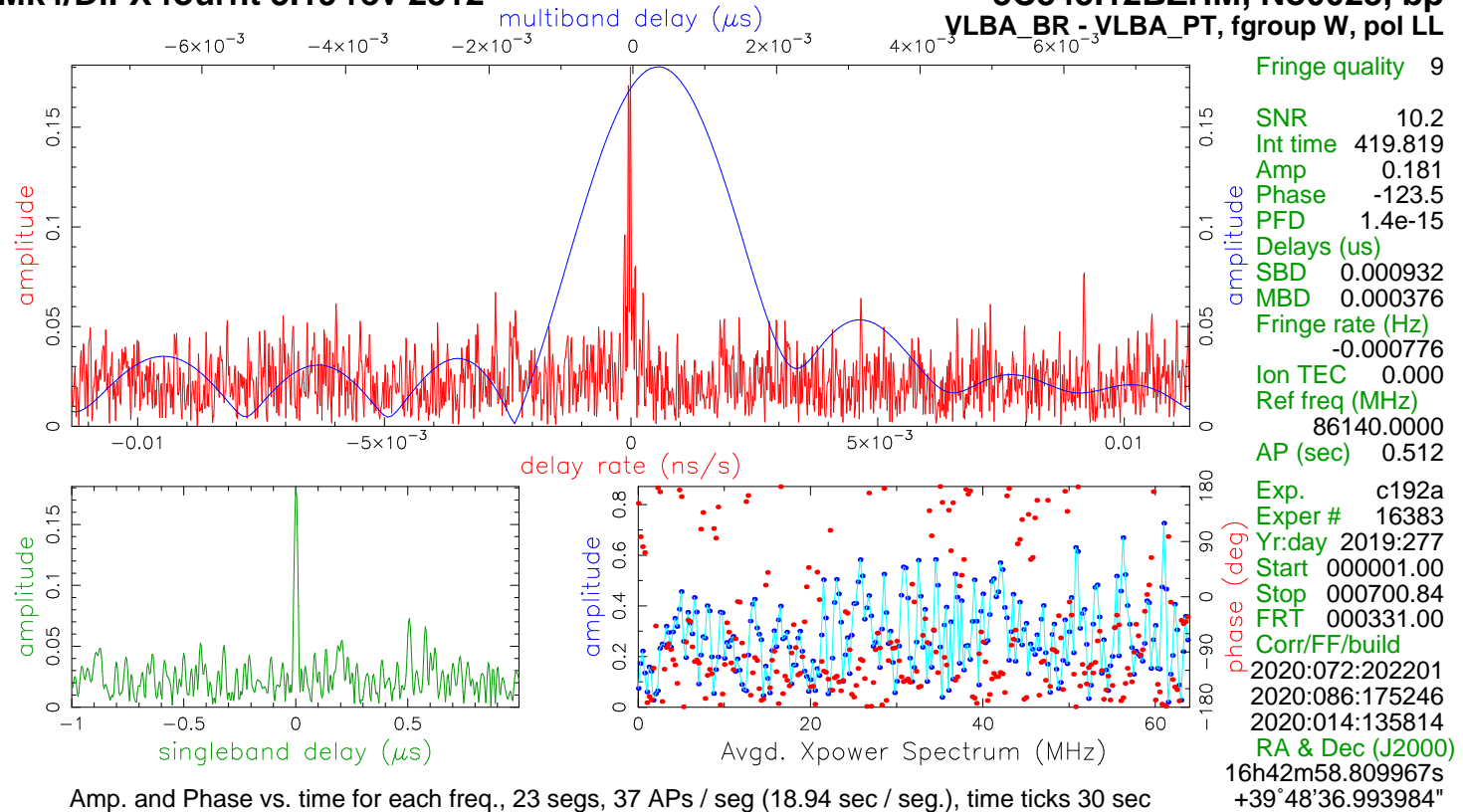


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	0:0	0:0	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

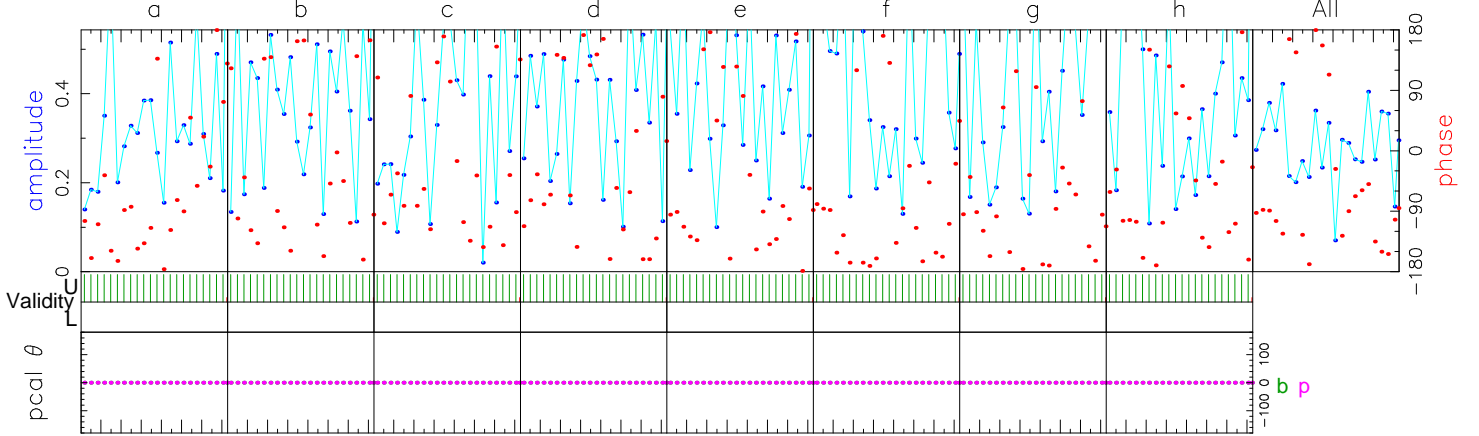
Group delay (usec)(sbd) 2.56318844632E+02 Apriori delay (usec) 2.56318173837E+02 Resid mbdelay (usec) 6.70796E-04 +/- 9.9E-05
 Sband delay (usec) 2.56319498587E+02 Apriori clock (usec) -1.2527438E+01 Resid sbdelay (usec) 1.32475E-03 +/- 7.9E-04
 Phase delay (usec) 2.56318173799E+02 Apriori clockrate (us/s) -4.4628166E-07 Resid phdelay (usec) -3.79790E-08 +/- 3.4E-07
 Delay rate (us/s) 2.05433071260E-01 Apriori rate (us/s) 2.05433121073E-01 Resid rate (us/s) -4.98137E-08 +/- 1.4E-09
 Total phase (deg) 176.8 Apriori accel (us/s/s) 1.16377693709E-05 Resid phase (deg) -1.2 +/- 10.5

RMS Theor. Amplitude 0.196 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 49.5 25.1 Search (2048X32) 0.176 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 55.2 43.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 10.5 14.8 Inc. seg. avg. 0.252 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 19.4 25.8 Inc. frq. avg. 0.190 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 189.5 el 81.5 pa 8.2 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) -1507.811 2012.195 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/bp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/bp.W.24.12BZHM



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



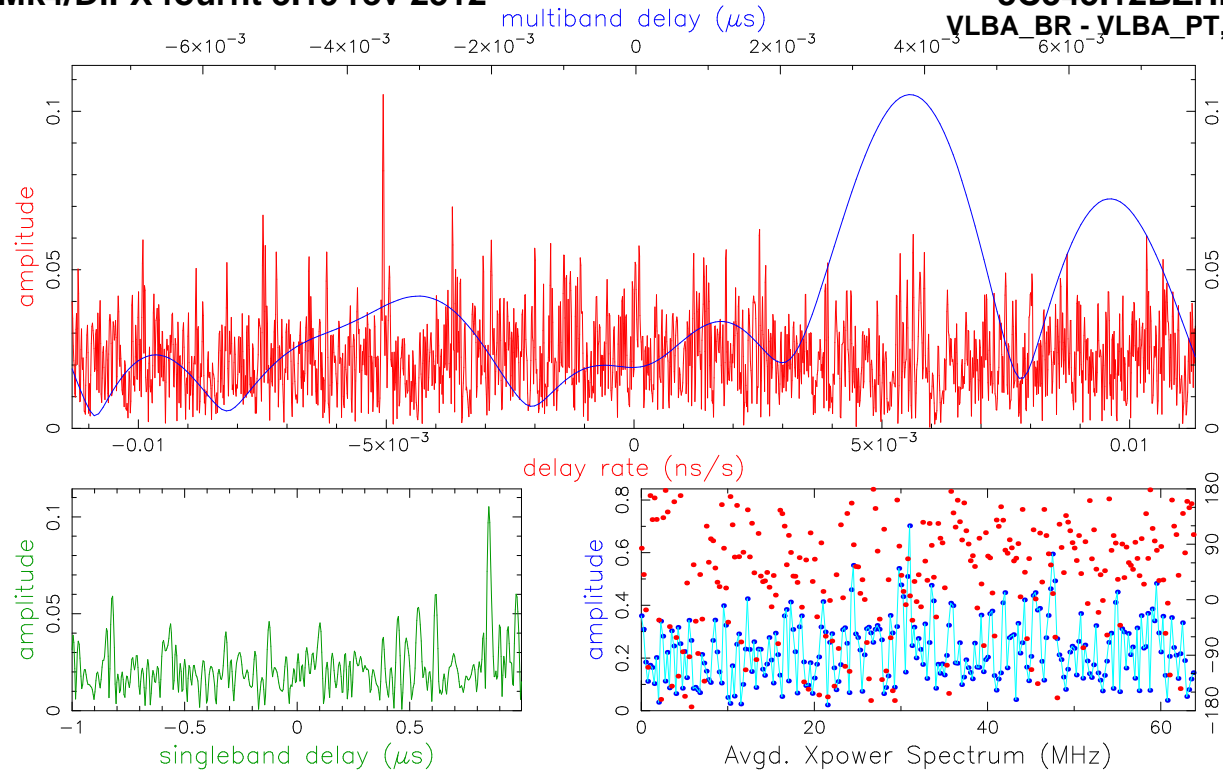
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-114.2	-124.1	-107.8	-138.0	-134.1	-128.4	-118.5	-118.2	Phase	-123.5
	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	Ampl.	0.2
	487.5	231.3	258.5	462.2	257.7	258.0	256.6	233.8	Sbd box	257.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	2.56318549890E+02	Apriori delay (usec)	2.56318173837E+02	Resid mbdelay (usec)	3.76053E-04	+/-	1.1E-04
Sband delay (usec)	2.56319106087E+02	Apriori clock (usec)	-1.2527438E+01	Resid sbdelay (usec)	9.32250E-04	+/-	8.5E-04
Phase delay (usec)	2.56318169854E+02	Apriori clockrate (us/s)	-4.4628166E-07	Resid phdelay (usec)	-3.98226E-06	+/-	3.6E-07
Delay rate (us/s)	2.05433112062E-01	Apriori rate (us/s)	2.05433121073E-01	Resid rate (us/s)	-9.01144E-09	+/-	1.5E-09
Total phase (deg)	54.5	Apriori accel (us/s/s)	1.16377693709E-05	Resid phase (deg)	-123.5	+/-	11.3

ph/seg (deg)	55.9	RMS	27.1	Theor.	27.1	Amplitude	0.181 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	72.0	55.9	27.1	Search (2048X32)	0.177	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	11.0	72.0	47.2	Inc. seg. avg.	0.253	Inc. frq. avg.	0.176	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	17.7	11.0	16.0	Inc. frq. avg.	0.176	Sample rate(MISamp/s): 128	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	dr window (ns/s) -0.011 0.011

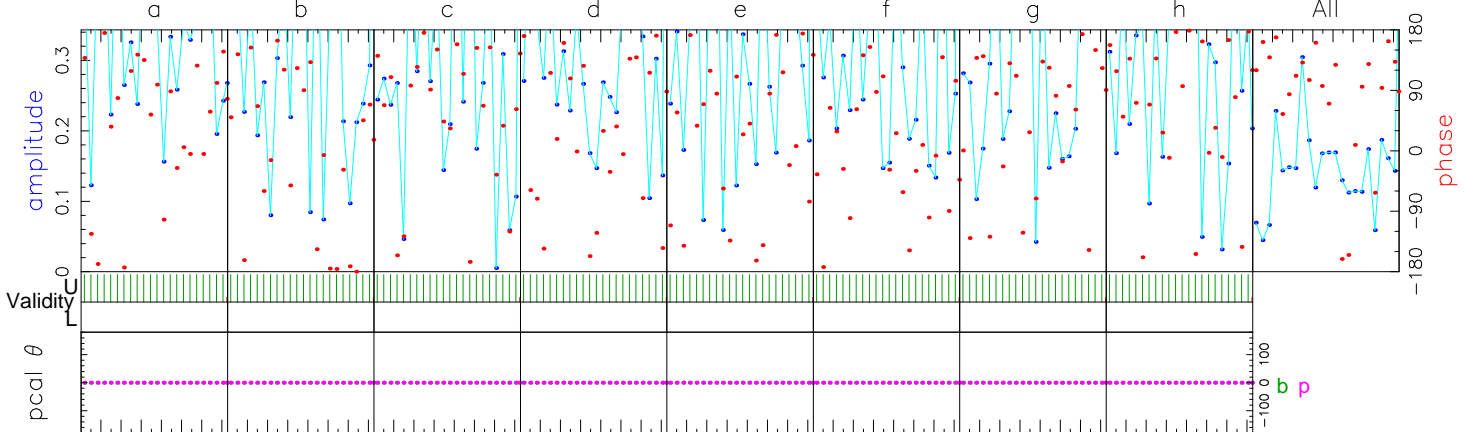
b: az 189.5 el 81.5 pa 8.2 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) -1507.811 2012.195 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/bp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/bp.W.4.12BZHM



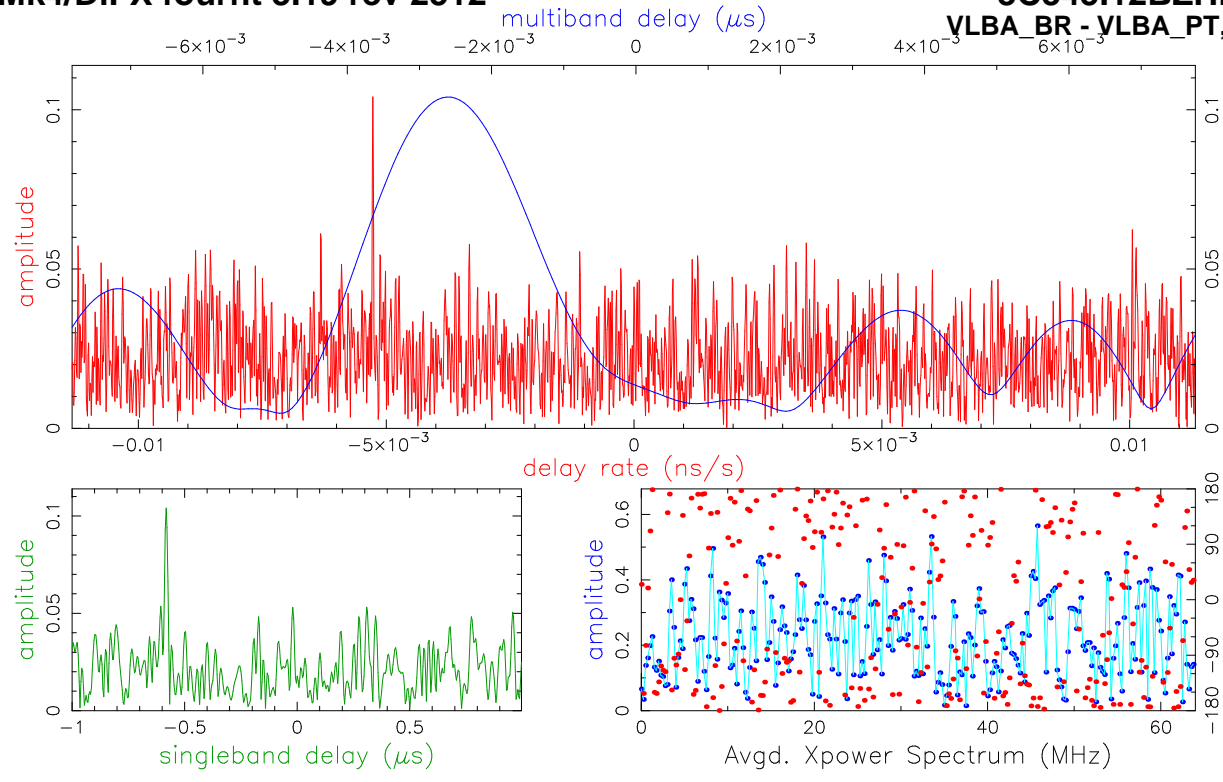
Fringe quality 0
SNR 5.9
Int time 419.819
Amp 0.114
Phase 121.0
PFD 6.1e-01
Delays (us)
SBD 0.851451
MBD 0.003796
Fringe rate (Hz)
-0.436862
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 000001.00
Stop 000700.84
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175254
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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
	102.6	140.2	134.8	131.1	105.0	41.5	126.3	133.7	Phase	121.0
	0.2	0.1	0.2	0.0	0.1	0.1	0.2	0.1	Ampl.	0.1
	39.0	283.0	476.6	252.6	54.1	302.1	372.6	27.5	Sbd box	475.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.57165719524E+02		Apriori delay (usec)		2.56318173837E+02		Resid mbdelay (usec)		3.79569E-03	+/- 1.8E-04
Sband delay (usec)	2.57169624587E+02		Apriori clock (usec)		-1.2527438E+01		Resid sbdelay (usec)		8.51451E-01	+/- 1.5E-03
Phase delay (usec)	2.56318177738E+02		Apriori clockrate (us/s)		-4.4628166E-07		Resid phdelay (usec)		3.90171E-06	+/- 6.3E-07
Delay rate (us/s)	2.05428049540E-01		Apriori rate (us/s)		2.05433121073E-01		Resid rate (us/s)		-5.07153E-06	+/- 2.6E-09
Total phase (deg)	298.9		Apriori accel (us/s/s)		1.16377693709E-05		Resid phase (deg)		121.0	+/- 19.4

ph/seg (deg) 58.4 46.6 Search (2048X32) 0.104 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 69.5 81.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 36.0 27.5 Inc. seg. avg. 0.119 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 49.6 48.0 Inc. frq. avg. 0.113 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 189.5 el 81.5 pa 8.2 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) -1507.811 2012.195 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/bp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/bp.W.43.12BZHM

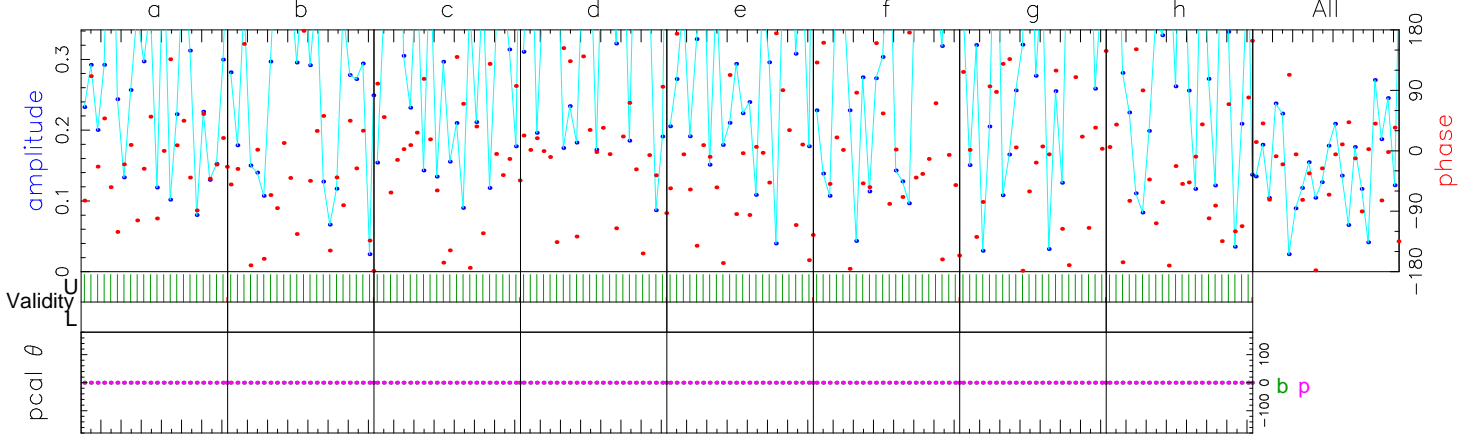


Fringe quality 0

SNR 5.8
Int time 419.819
Amp 0.114
Phase -14.0
PFD 7.5e-01
Delays (us)
SBD -0.581956
MBD -0.002601
Fringe rate (Hz)
-0.454967
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

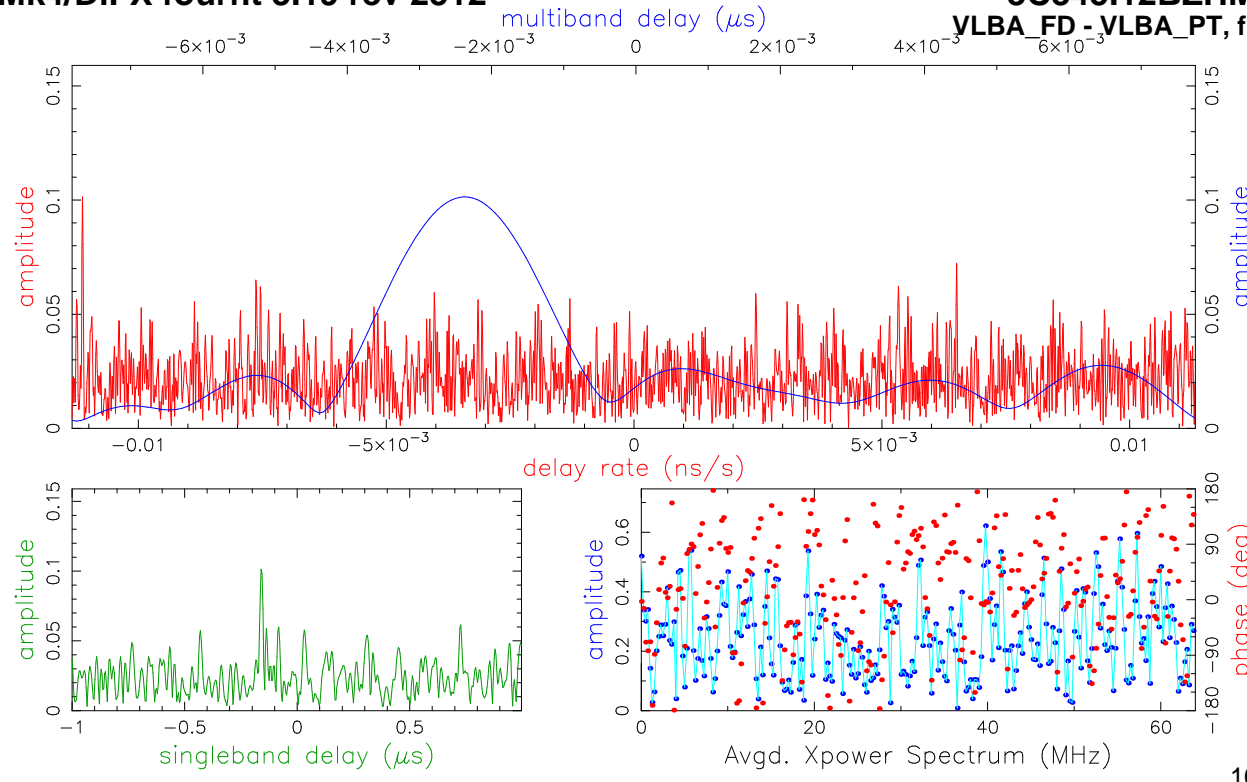
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 000001.00
Stop 000700.84
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175259
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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
	-11.3	-42.3	-3.6	3.7	-26.0	-25.8	70.7	-36.6		-14.0
	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	Ampl.	0.1
	454.2	300.5	9.7	425.8	448.5	43.9	382.4	18.2	Sbd box	108.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
b	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)	2.55737447904E+02		Apriori delay (usec)		2.56318173837E+02		Resid mbdelay (usec)		-2.60093E-03	+/- 1.9E-04
Sband delay (usec)	2.55736218087E+02		Apriori clock (usec)		-1.2527438E+01		Resid sbdelay (usec)		-5.81956E-01	+/- 1.5E-03
Phase delay (usec)	2.56318173385E+02		Apriori clockrate (us/s)		-4.4628166E-07		Resid phdelay (usec)		-4.51854E-07	+/- 6.3E-07
Delay rate (us/s)	2.05427839359E-01		Apriori rate (us/s)		2.05433121073E-01		Resid rate (us/s)		-5.28171E-06	+/- 2.6E-09
Total phase (deg)	163.9		Apriori accel (us/s/s)		1.16377693709E-05		Resid phase (deg)		-14.0	+/- 19.7

ph/seg (deg) 59.4 47.1 Search (2048X32) 0.103 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 77.5 82.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 39.1 27.8 Inc. seg. avg. 0.122 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 33.1 48.5 Inc. frq. avg. 0.112 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 189.5 el 81.5 pa 8.2 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) -1507.811 2012.195 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/bp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/bp.W.63.12BZHM

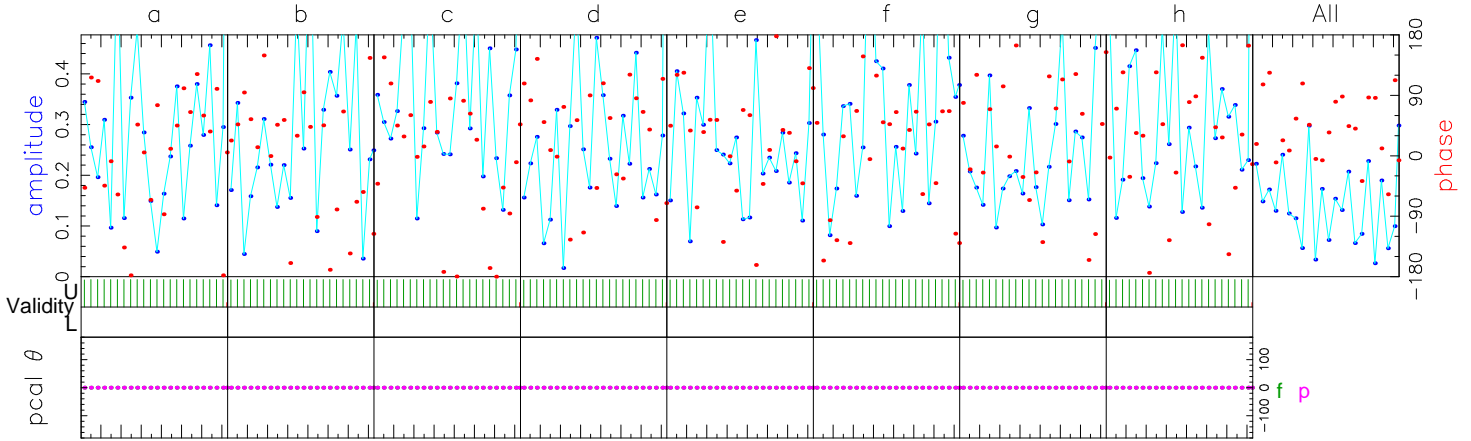


Fringe quality 0

SNR 5.8
Int time 419.472
Amp 0.159
Phase 44.4
PFD 8.7e-01
Delays (us)
SBD -0.158681
MBD -0.002334
Fringe rate (Hz)
-0.959746
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

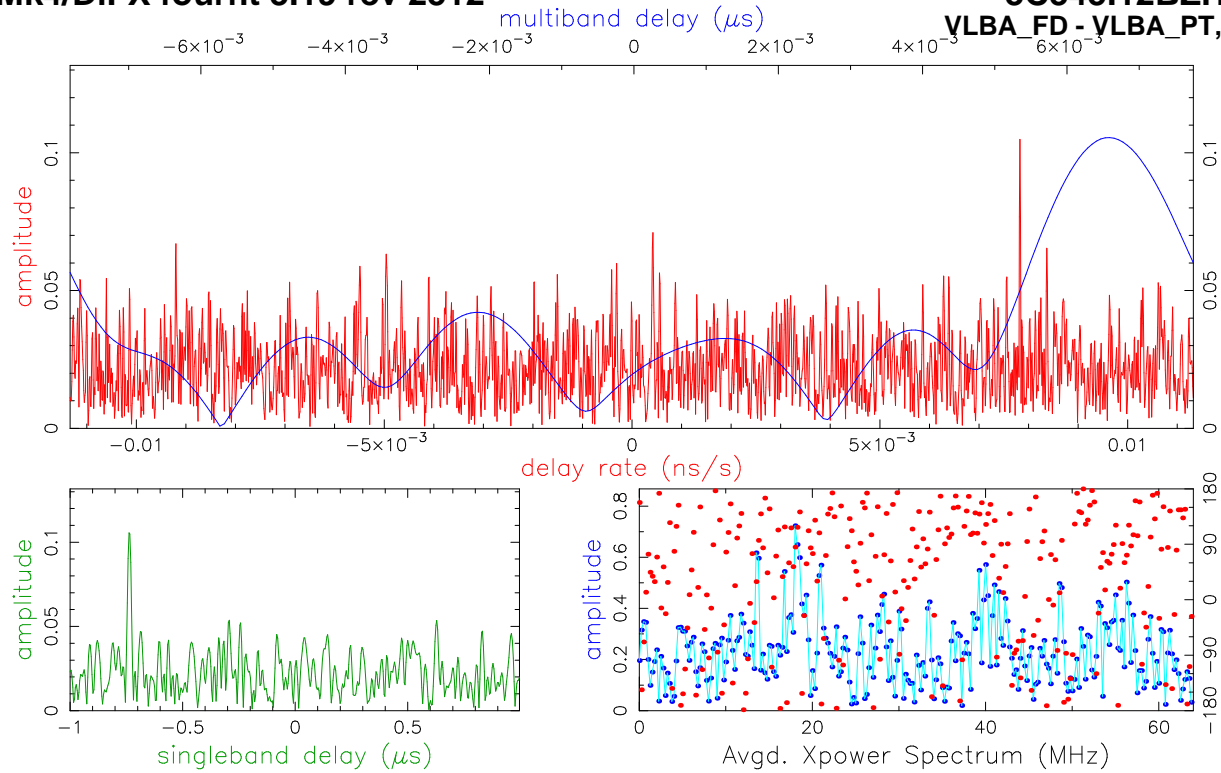
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 000001.00
Stop 000700.84
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175248
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



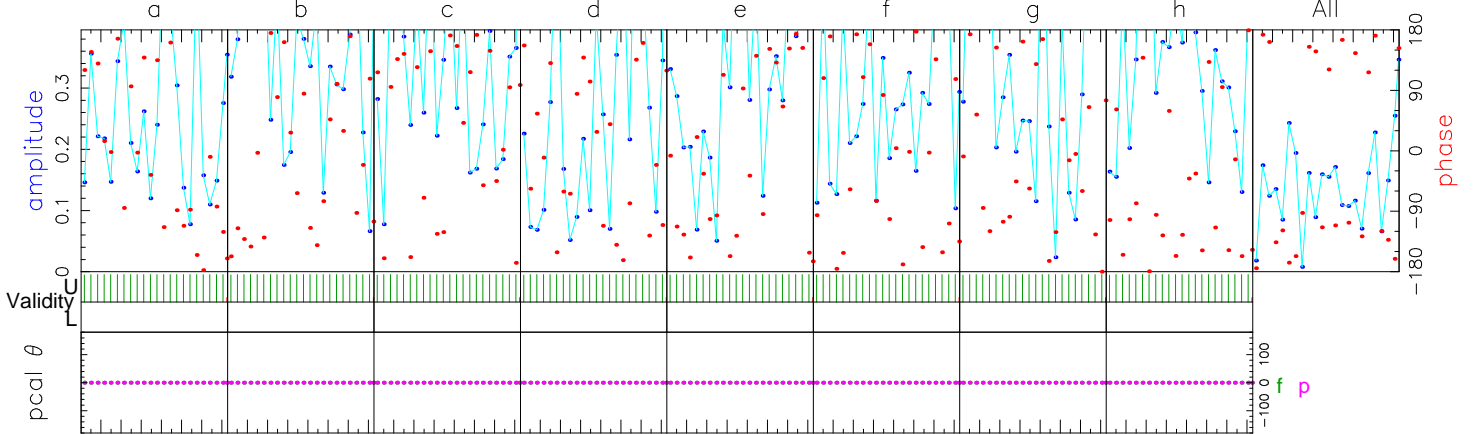
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
fp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-4.92488555348E+02									
Sband delay (usec)	-4.92488652014E+02									
Phase delay (usec)	-4.92329969832E+02									
Delay rate (us/s)	-8.18143324568E-02									
Total phase (deg)			-216.5							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									44.4	+/- 19.9
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Sample rate (MSamp/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) 49.7 47.6 Search (2048X32) 0.098 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 78.7 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) 17.5 28.1 Inc. seg. avg. 0.159 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 22.4 49.0 Inc. frq. avg. 0.144 Sample rate (MSamp/s): 128 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 307.4 el 73.0 pa 118.4 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) 606.360 -462.778 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/No0023/fp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/fp.W.18.12BZHM simultaneous interpolator



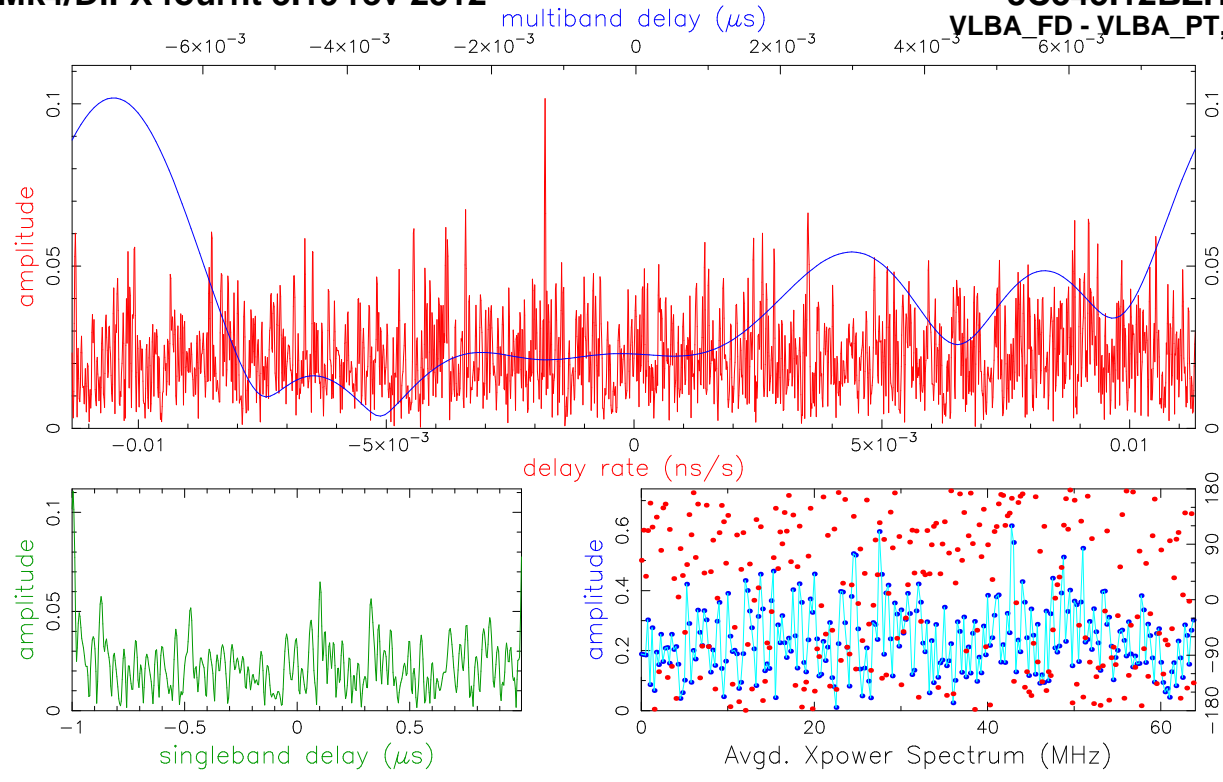
Fringe quality 0
SNR 6.0
Int time 419.472
Amp 0.132
Phase -169.6
PFD 3.8e-01
Delays (us)
SBD -0.736472
MBD 0.006460
Fringe rate (Hz)
0.674906
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Yr:day 16383
2020:072:202201
2020:086:175253
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



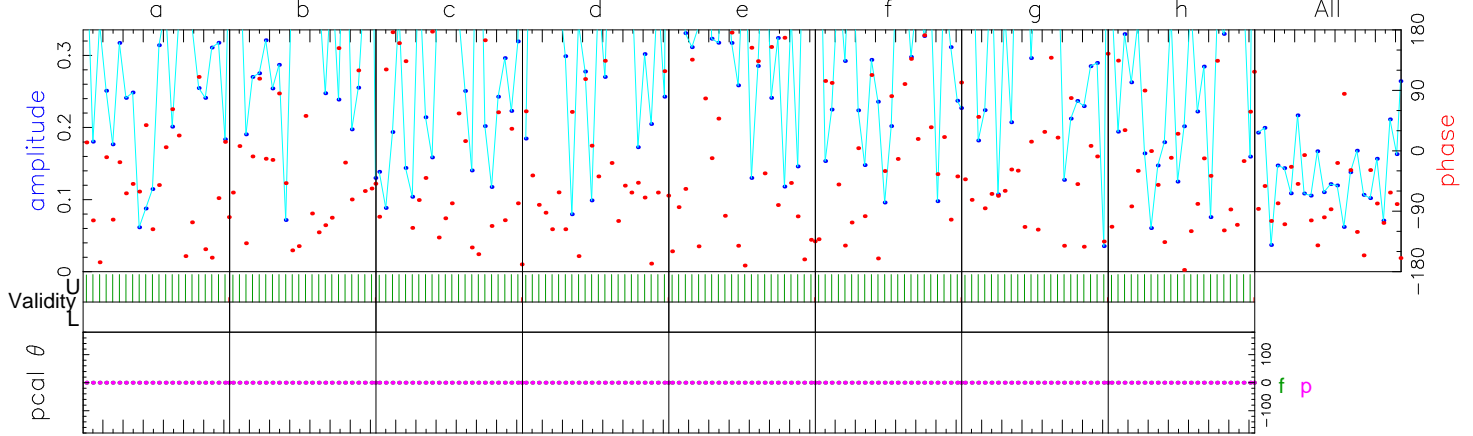
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-156.5	-126.8	144.4	-172.8	171.7	-179.3	-146.2	-145.0	Phase	-169.6
	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.2	Ampl.	0.1
	151.8	29.9	395.3	180.7	306.9	201.5	121.5	85.2	Sbd box	68.5
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	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)	-4.93073510921E+02		Apriori delay (usec)		-4.92329971264E+02		Resid mbdelay (usec)		6.46034E-03	+/- 1.8E-04
Sband delay (usec)	-4.93066443514E+02		Apriori clock (usec)		-1.1456962E+01		Resid sbdelay (usec)		-7.36472E-01	+/- 1.4E-03
Phase delay (usec)	-4.92329976731E+02		Apriori clockrate (us/s)		-2.9483610E-07		Resid phdelay (usec)		-5.46757E-06	+/- 6.1E-07
Delay rate (us/s)	-8.17953557646E-02		Apriori rate (us/s)		-8.18031907595E-02		Resid rate (us/s)		7.83499E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.34077501323E-06		Resid phase (deg)		-169.6	+/- 19.1

ph/seg (deg) 44.5 45.7 Search (2048X32) 0.101 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 67.2 79.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 30.9 27.0 Inc. seg. avg. 0.128 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 28.1 47.1 Inc. frq. avg. 0.131 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 307.4 el 73.0 pa 118.4 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) 606.360 -462.778 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/fp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/fp.W.37.12BZHM



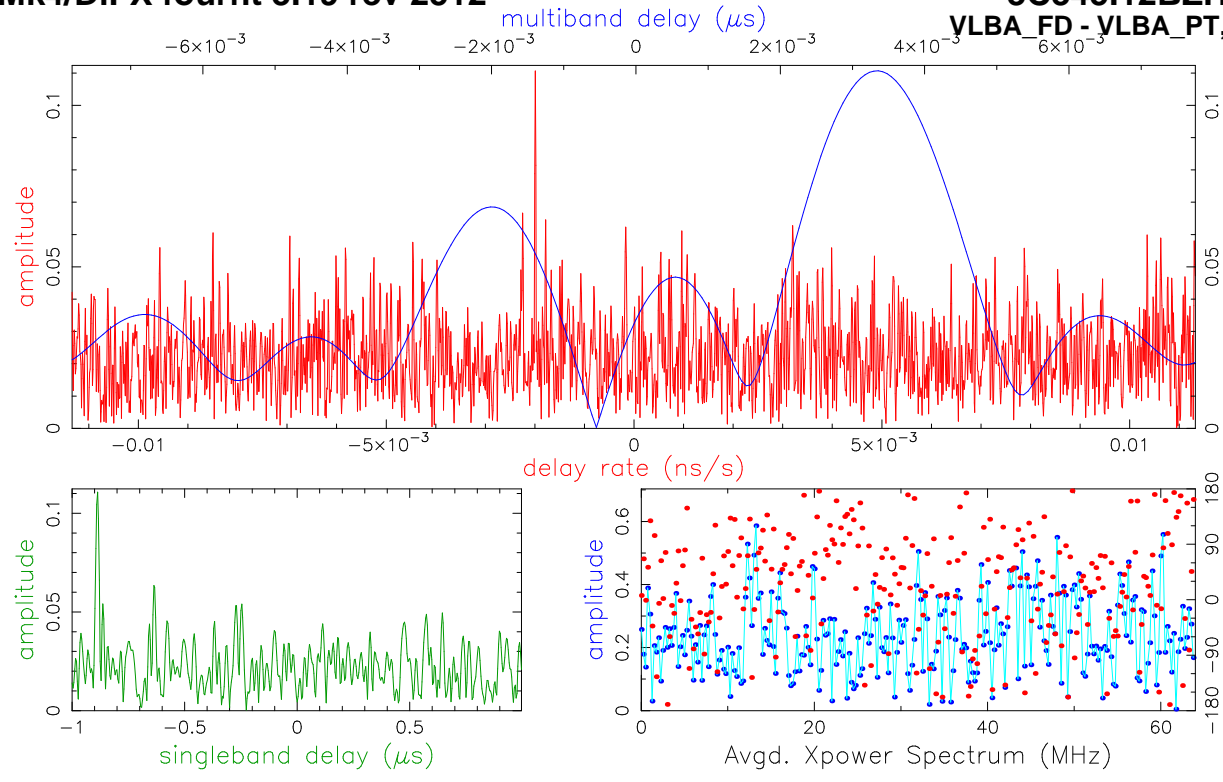
Fringe quality 0
SNR 6.2
Int time 419.472
Amp 0.112
Phase -76.2
PFD 1.4e-01
Delays (us)
SBD -0.996115
MBD -0.007317
Fringe rate (Hz)
-0.154388
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 000001.00
Stop 000700.84
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175258
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



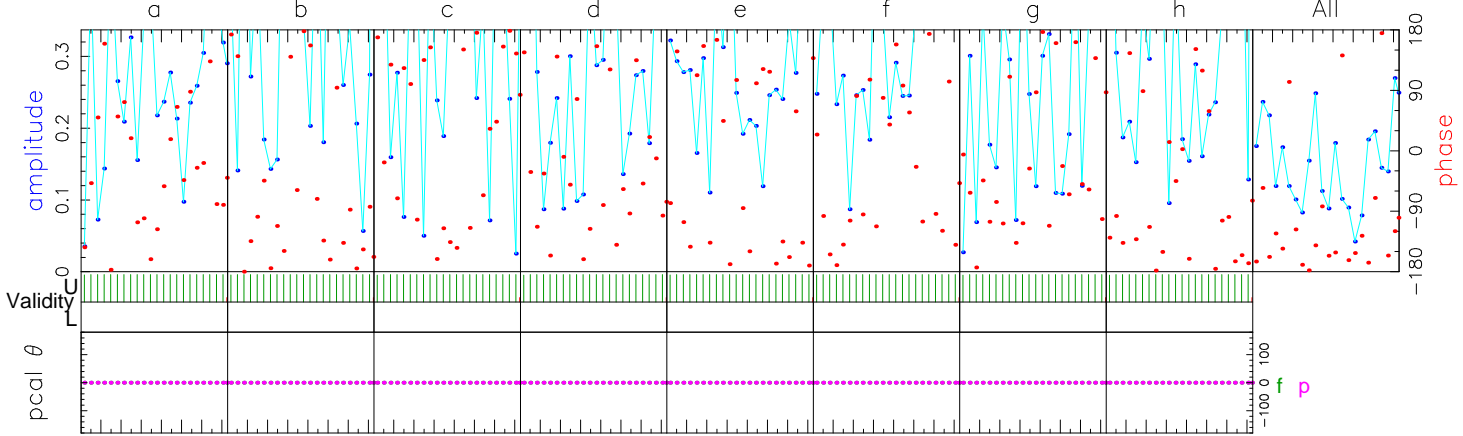
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-57.6	-64.6	-119.8	-69.3	-130.4	-29.6	-45.2	-68.8	Phase	-76.2
	0.1	0.1	0.1	0.2	0.1	0.0	0.1	0.1	Ampl.	0.1
	401.7	305.2	313.4	1.8	350.2	321.6	188.0	208.1	Sbd box	2.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.93321663728E+02		Apriori delay (usec)		-4.92329971264E+02		Resid mbdelay (usec)		-7.31746E-03	+/- 1.8E-04
Sband delay (usec)	-4.93326086514E+02		Apriori clock (usec)		-1.1456962E+01		Resid sbdelay (usec)		-9.96115E-01	+/- 1.4E-03
Phase delay (usec)	-4.92329973720E+02		Apriori clockrate (us/s)		-2.9483610E-07		Resid phdelay (usec)		-2.45616E-06	+/- 6.0E-07
Delay rate (us/s)	-8.18049830510E-02		Apriori rate (us/s)		-8.18031907595E-02		Resid rate (us/s)		-1.79229E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.34077501323E-06		Resid phase (deg)		-76.2	+/- 18.5

ph/seg (deg) 52.4 44.3 Search (2048X32) 0.109 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 48.5 77.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 37.7 26.1 Inc. seg. avg. 0.105 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 42.9 45.6 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
 f: az 307.4 el 73.0 pa 118.4 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) 606.360 -462.778 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/fp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/fp.W.59.12BZHM



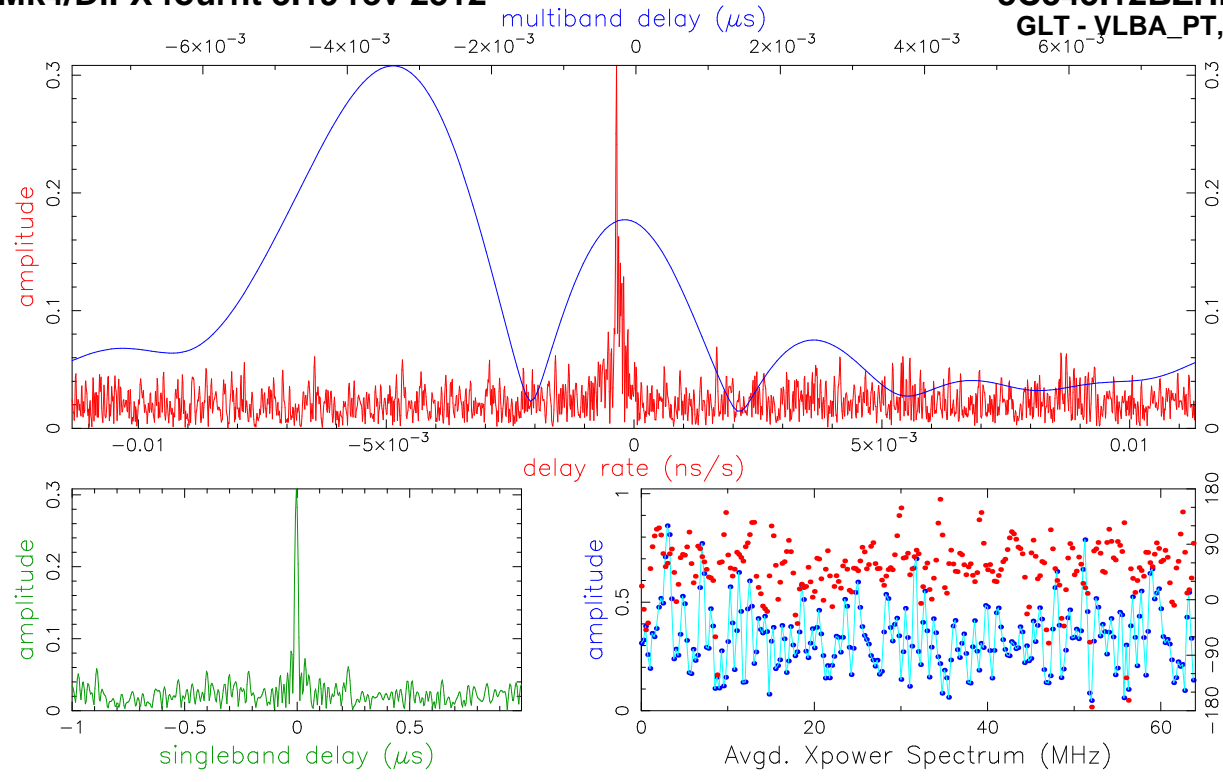
Fringe quality 0
SNR 6.2
Int time 419.472
Amp 0.112
Phase -142.3
PFD 1.3e-01
Delays (us)
SBD -0.887375
MBD 0.003312
Fringe rate (Hz)
-0.172257
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Yr:day 16383
Start 2020:072:20227
Stop 2020:086:175302
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175302
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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
	-56.3	-148.3	-164.3	-103.0	-176.8	-144.7	-108.5	-141.6	Phase	-142.3
	0.0	0.2	0.1	0.1	0.2	0.1	0.1	0.2	Ampl.	0.1
	224.9	30.2	94.4	47.7	29.8	424.6	241.7	403.2	Sbd box	29.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
fp	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.93217283974E+02		Apriori delay (usec)		-4.92329971264E+02		Resid mbdelay (usec)		3.31229E-03	+/- 1.7E-04
Sband delay (usec)	-4.93217346264E+02		Apriori clock (usec)		-1.1456962E+01		Resid sbdelay (usec)		-8.87375E-01	+/- 1.4E-03
Phase delay (usec)	-4.92329975853E+02		Apriori clockrate (us/s)		-2.9483610E-07		Resid phdelay (usec)		-4.58913E-06	+/- 5.9E-07
Delay rate (us/s)	-8.18051904884E-02		Apriori rate (us/s)		-8.18031907595E-02		Resid rate (us/s)		-1.99973E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.34077501323E-06		Resid phase (deg)		-142.3	+/- 18.4

RMS Theor. Amplitude 0.112 +/- 0.018
 ph/seg (deg) 44.3 44.2 Search (2048X32) 0.104
 amp/seg (%) 64.0 77.2 Interp. 0.000
 ph/frq (deg) 44.4 26.1 Inc. seg. avg. 0.116
 amp/frq (%) 49.3 45.5 Inc. frq. avg. 0.115
 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 f: az 307.4 el 73.0 pa 118.4 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) 606.360 -462.778 simultaneous interpolator

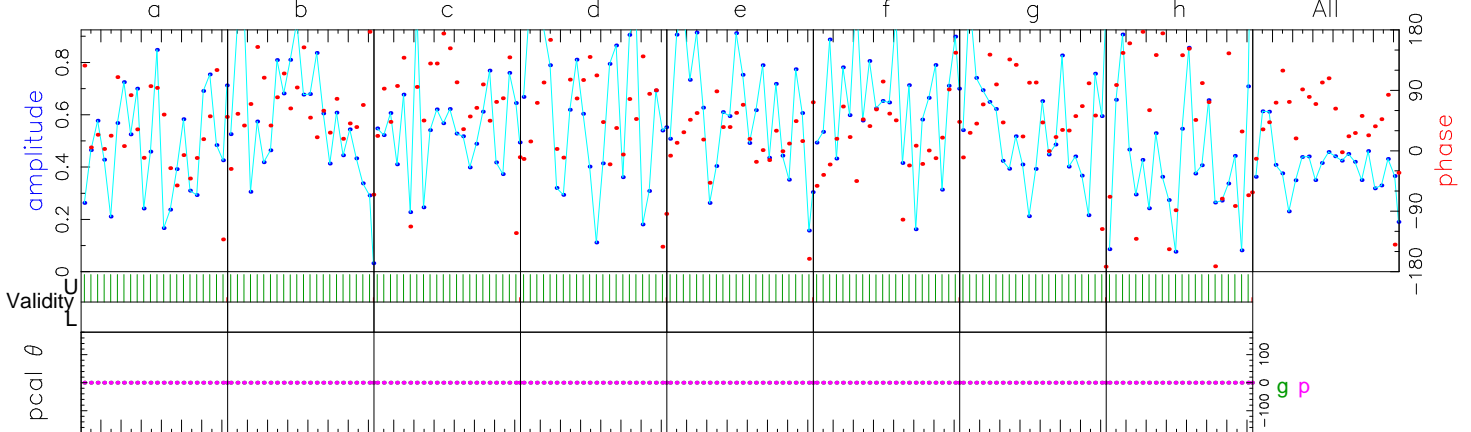


Fringe quality 8

SNR 17.3
Int time 419.523
Amp 0.308
Phase 54.3
PFD 0.0e+00
Delays (us)
SBD -0.003549
MBD -0.003348
Fringe rate (Hz)
-0.030900
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

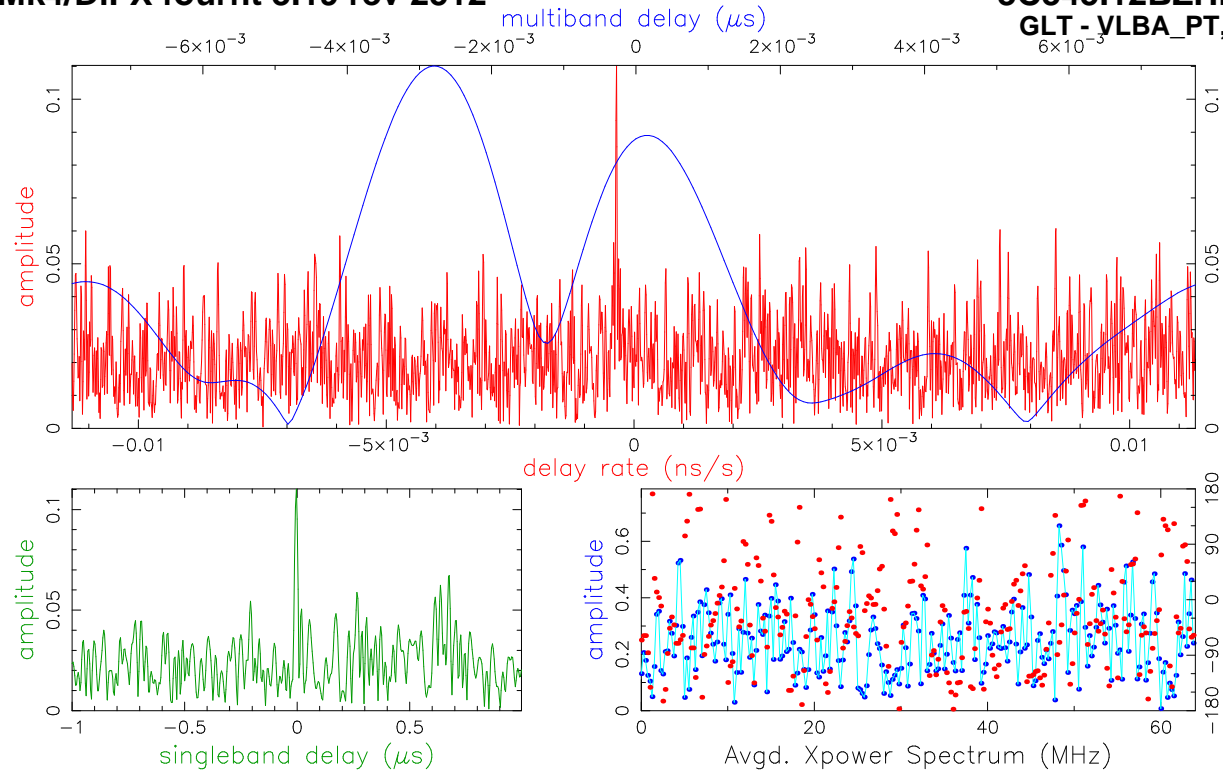
Exp. c192a
Yr:day 16383
Start 2020:072:202201
Stop 2020:086:175309
FRT 2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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
36.2	64.6	96.6	63.4	27.1	20.2	54.8	149.5		Phase	54.3
0.3	0.4	0.3	0.4	0.5	0.4	0.4	0.2		Ampl.	0.4
257.7	256.0	255.7	256.0	256.0	255.9	256.9	258.8		Sbd box	256.1
U/L 820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		APs used	
g 0	0	0	0	0	0	0	0		PC freqs	
p 1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
g:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
g:p 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	
p 1000	1000	1000	1000	1000	1000	1000	1000			
g 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)	-5.29757483174E+03		Apriori delay (usec)	-5.29757148393E+03		Resid mbdelay (usec)	-3.34781E-03		+/-	6.3E-05
Sband delay (usec)	-5.29757503268E+03		Apriori clock (usec)	-1.0612335E+01		Resid sbdelay (usec)	-3.54875E-03		+/-	5.0E-04
Phase delay (usec)	-5.29757148218E+03		Apriori clockrate (us/s)	-1.2888659E-07		Resid phdelay (usec)	1.75089E-06		+/-	2.1E-07
Delay rate (us/s)	1.84005051353E-02		Apriori rate (us/s)	1.84008638546E-02		Resid rate (us/s)	-3.58719E-07		+/-	8.8E-10
Total phase (deg)		-171.0	Apriori accel (us/s/s)	5.76839276847E-05		Resid phase (deg)	54.3		+/-	6.6

ph/seg (deg) 49.7 15.9 Search (2048X32) 0.293 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 43.2 27.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 47.0 9.4 Inc. seg. avg. 0.395 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 36.4 16.4 Inc. frq. avg. 0.358 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 243.7 el 46.9 pa 15.7 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) -31.306 6562.527 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/gp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/gp.W.101.12BZHM

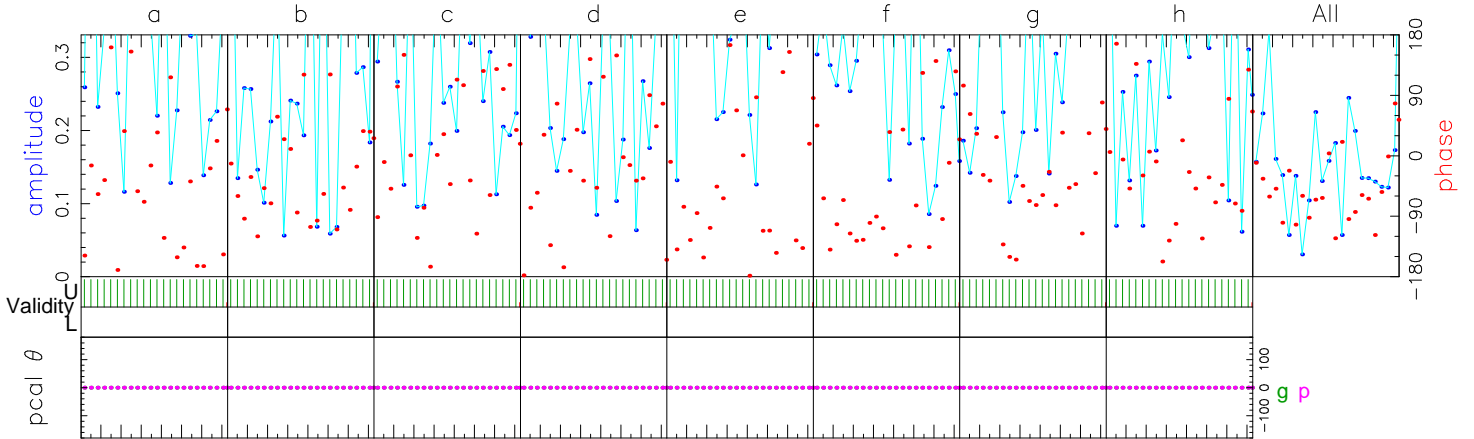


Fringe quality 0

SNR 6.2
Int time 419.710
Amp 0.110
Phase -59.5
PFD 1.6e-01
Delays (us)
SBD -0.004358
MBD -0.002815
Fringe rate (Hz)
-0.030566
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

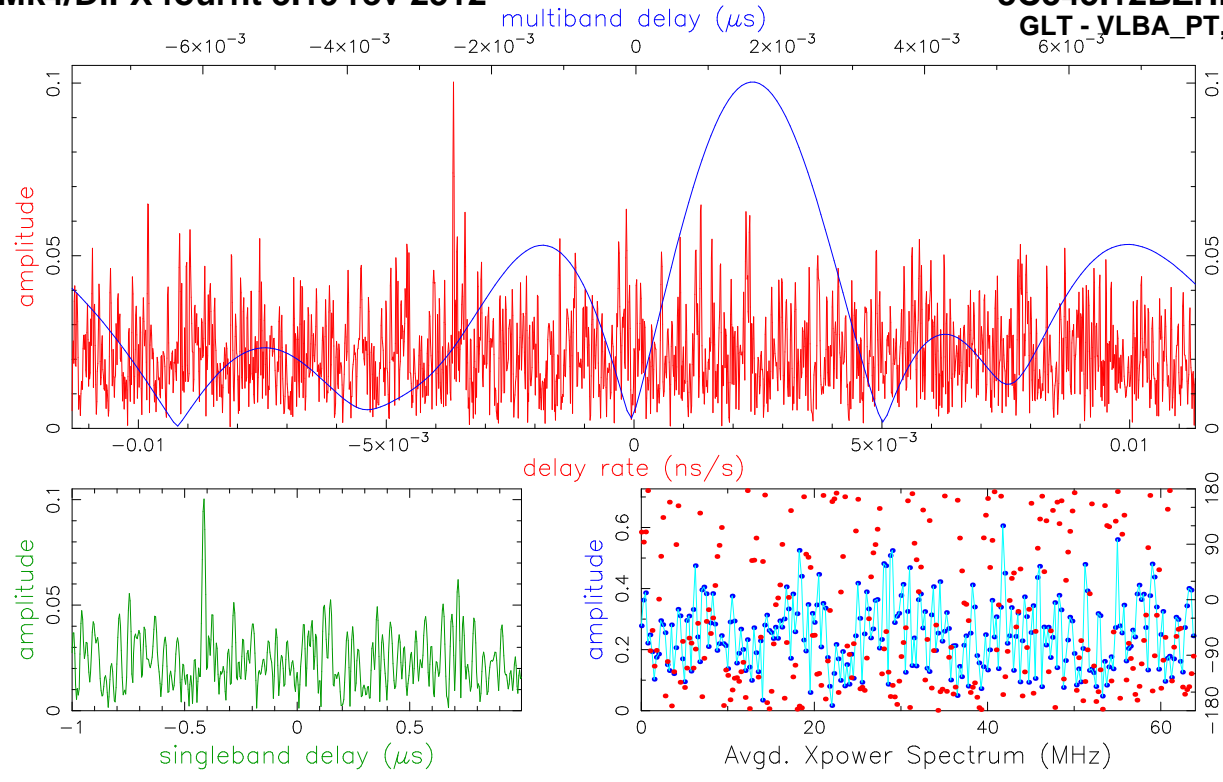
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 000001.00
Stop 000700.84
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175314
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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
	-89.8	-44.0	-5.0	-11.2	-110.2	-96.0	-30.3	-50.5	Phase	-59.5
	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.1	Ampl.	0.1
	258.7	483.0	415.0	321.4	153.1	27.7	102.4	385.6	Sbd box	255.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.29757429915E+03		Apriori delay (usec)		-5.29757148393E+03		Resid mbdelay (usec)		-2.81521E-03	+/- 1.8E-04
Sband delay (usec)	-5.29757584143E+03		Apriori clock (usec)		-1.0612335E+01		Resid sbdelay (usec)		-4.35750E-03	+/- 1.4E-03
Phase delay (usec)	-5.29757148585E+03		Apriori clockrate (us/s)		-1.2888659E-07		Resid phdelay (usec)		-1.91903E-06	+/- 6.0E-07
Delay rate (us/s)	1.84005090132E-02		Apriori rate (us/s)		1.84008638546E-02		Resid rate (us/s)		-3.54841E-07	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		5.76839276847E-05		Resid phase (deg)		-59.5	+/- 18.6

ph/seg (deg) 49.0 44.5 Search (2048X32) 0.107 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 76.2 77.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.4 26.2 Inc. seg. avg. 0.119 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 44.4 45.8 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
 g: az 243.7 el 46.9 pa 15.7 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) -31.306 6562.527 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/gp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/gp.W.120.12BZHM

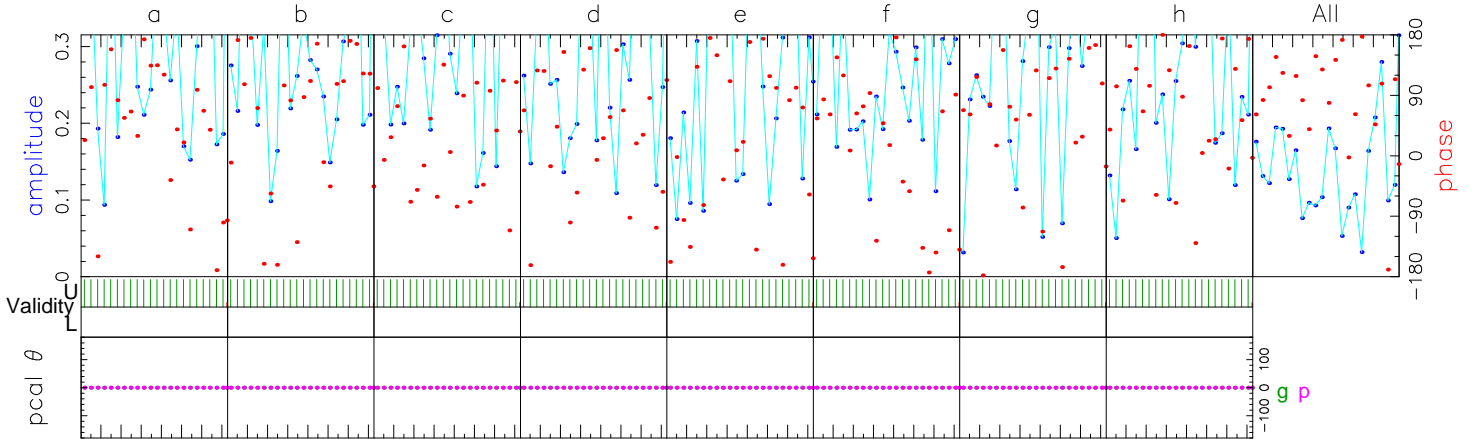


Fringe quality 0

SNR 5.6
Int time 419.523
Amp 0.105
Phase 98.8
PFD 9.8e-01
Delays (us)
SBD -0.414855
MBD 0.001576
Fringe rate (Hz)
-0.314578
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

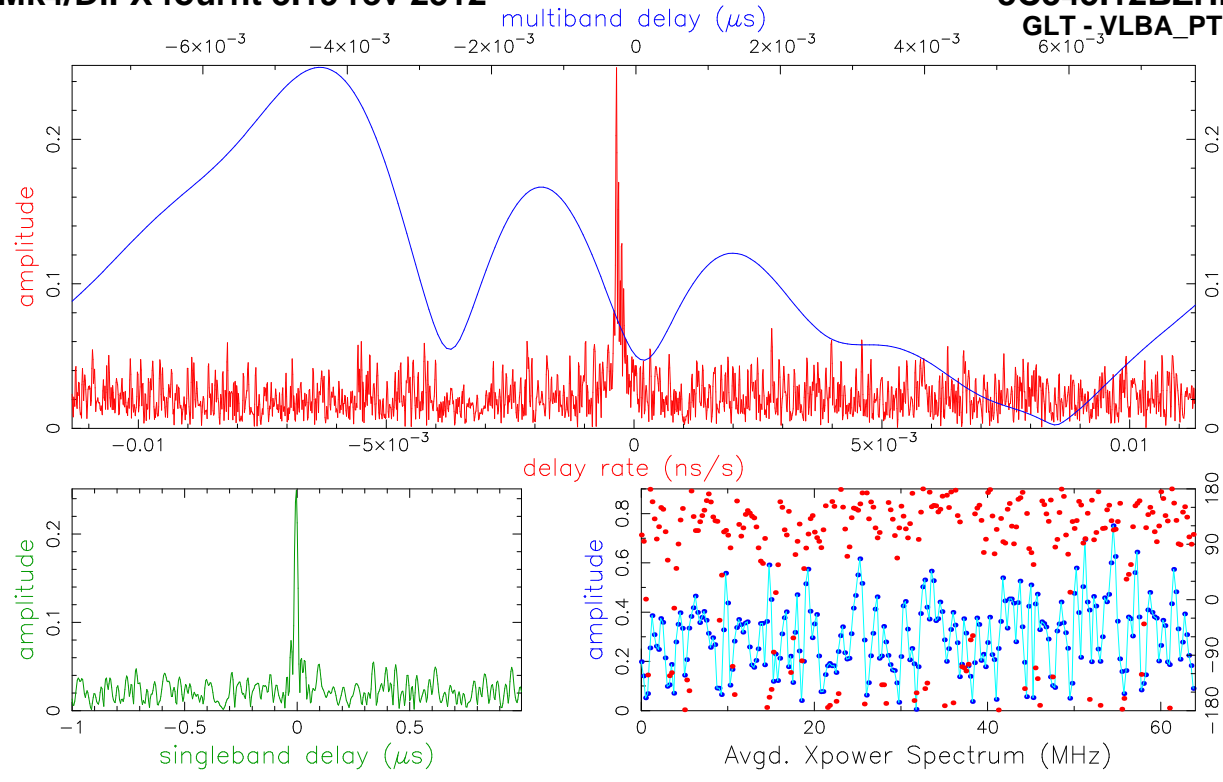
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 000001.00
Stop 000700.84
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175319
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



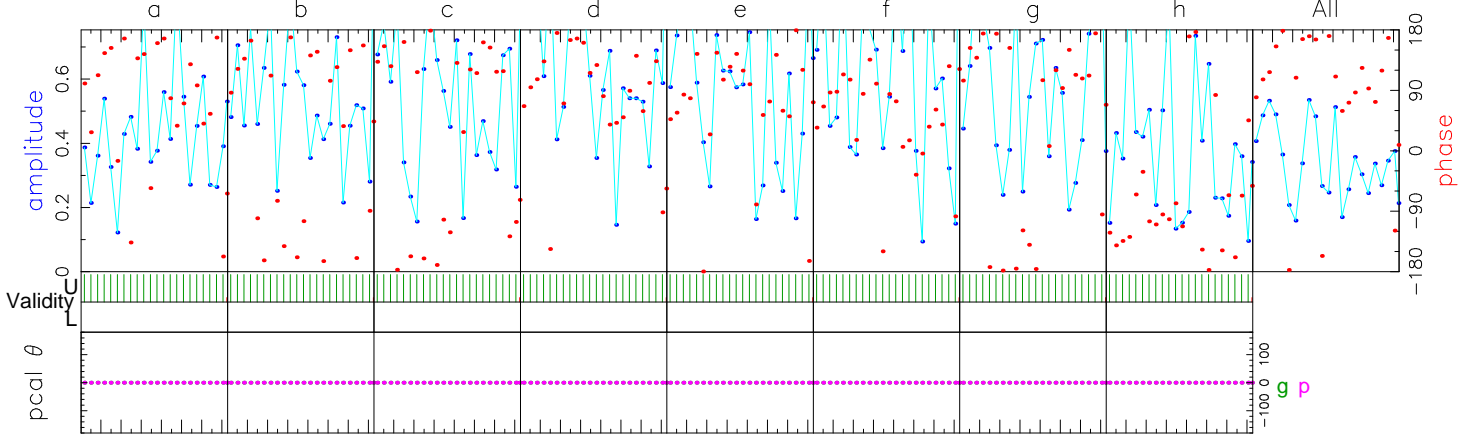
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	85.1	133.3	56.9	62.6	157.6	99.0	106.7	85.7	Phase	98.8
	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	Ampl.	0.1
	119.0	152.2	53.9	392.2	269.2	254.8	149.9	190.3	Sbd box	150.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
g	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)	-5.29799178326E+03		Apriori delay (usec)		-5.29757148393E+03		Resid mbdelay (usec)		1.57567E-03	+/- 1.9E-04
Sband delay (usec)	-5.29798633868E+03		Apriori clock (usec)		-1.0612335E+01		Resid sbdelay (usec)		-4.14855E-01	+/- 1.5E-03
Phase delay (usec)	-5.29757148075E+03		Apriori clockrate (us/s)		-1.2888659E-07		Resid phdelay (usec)		3.18664E-06	+/- 6.6E-07
Delay rate (us/s)	1.83972119132E-02		Apriori rate (us/s)		1.84008638546E-02		Resid rate (us/s)		-3.65194E-06	+/- 2.7E-09
Total phase (deg)			Apriori accel (us/s/s)		5.76839276847E-05		Resid phase (deg)		98.8	+/- 20.3

ph/seg (deg) 50.2 48.7 Search (2048X32) 0.099 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 68.5 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) 36.8 28.7 Inc. seg. avg. 0.105 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 31.9 50.2 Inc. frq. avg. 0.108 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 243.7 el 46.9 pa 15.7 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) -31.306 6562.527 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/gp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/gp.W.141.12BZHM



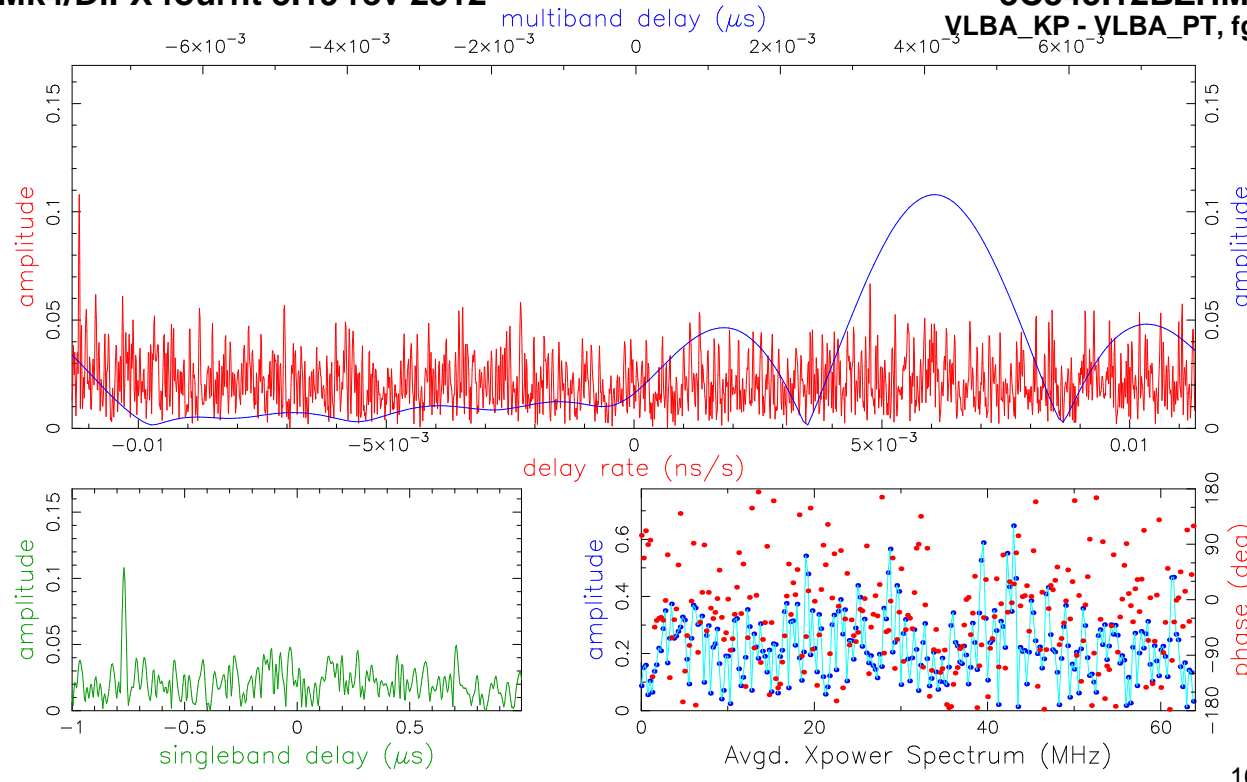
Fringe quality 9
 SNR 14.1
 Int time 419.710
 Amp 0.251
 Phase 134.4
 PFD 3.8e-36
 Delays (us)
 SBD -0.004835
 MBD -0.004440
 Fringe rate (Hz)
 -0.030714
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c192a
 Exper # 16383
 Yr:day 2019:277
 Start 000001.00
 Stop 000700.84
 FRT 000331.00
 Corr/FF/build
 2020:072:202201
 2020:086:175304
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



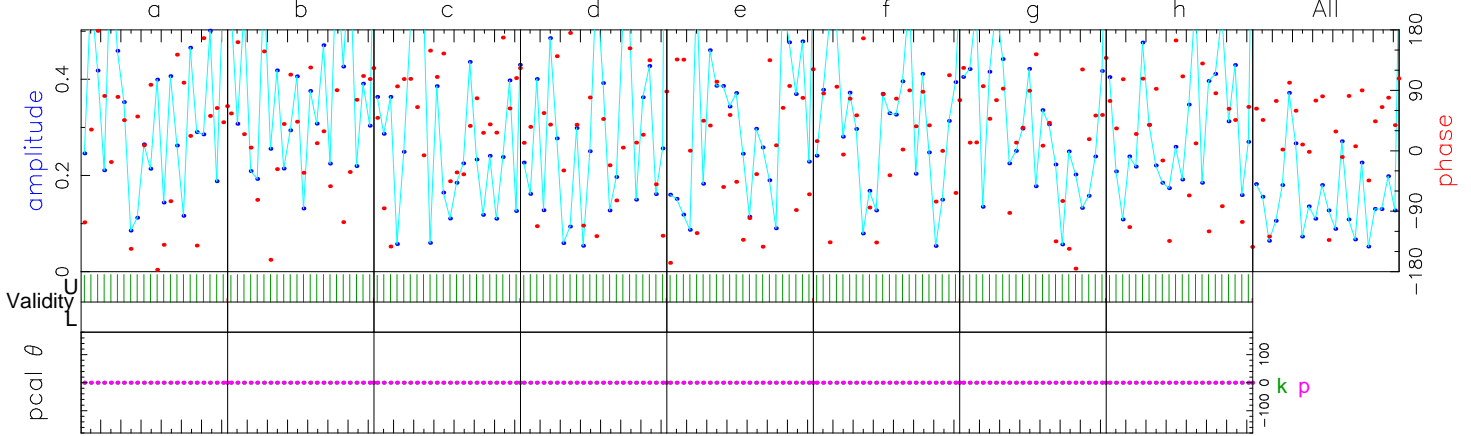
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
g	0	0	0	0	0	0	0	0	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	-5.29757592371E+03		Apriori delay (usec)		-5.29757148393E+03		Resid mbdelay (usec)		-4.43978E-03	+/- 7.7E-05
Sband delay (usec)	-5.29757631868E+03		Apriori clock (usec)		-1.0612335E+01		Resid sbdelay (usec)		-4.83475E-03	+/- 6.1E-04
Phase delay (usec)	-5.29757147960E+03		Apriori clockrate (us/s)		-1.2888659E-07		Resid phdelay (usec)		4.33433E-06	+/- 2.6E-07
Delay rate (us/s)	1.84005072900E-02		Apriori rate (us/s)		1.84008638546E-02		Resid rate (us/s)		-3.56565E-07	+/- 1.1E-09
Total phase (deg)			Apriori accel (us/s/s)		5.76839276847E-05		Resid phase (deg)		134.4	+/- 8.1

ph/seg (deg) 48.6 19.5 Search (2048X32) 0.245 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 60.1 34.1 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 11.5 Inc. seg. avg. 0.330 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 46.5 20.1 Inc. frq. avg. 0.340 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 243.7 el 46.9 pa 15.7 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) -31.306 6562.527 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/gp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/gp.W.83.12BZHM



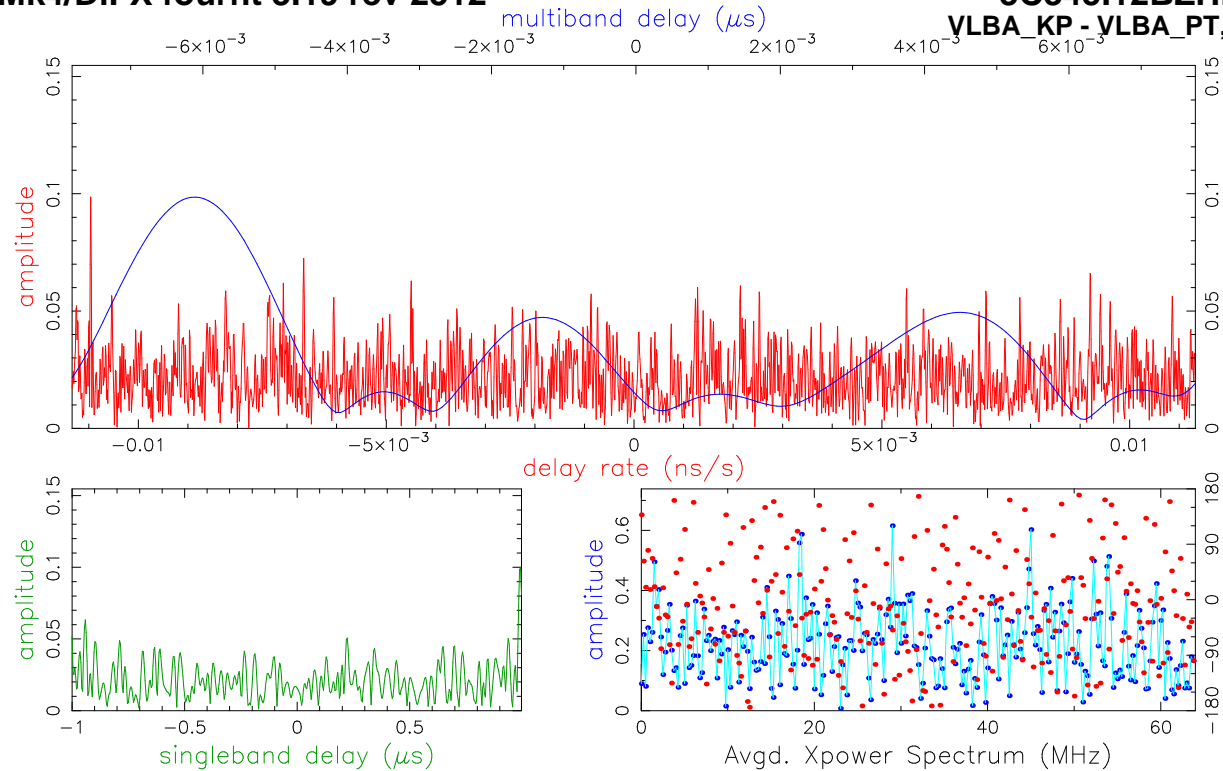
Fringe quality 0
 SNR 6.0
 Int time 418.819
 Amp 0.168
 Phase 56.1
 PFD 3.3e-01
 Delays (us)
 SBD -0.769674
 MBD 0.004134
 Fringe rate (Hz)
 -0.965487
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c192a
 Exper # 16383
 Yr:day 2019:277
 Start 000001.51
 Stop 000700.84
 FRT 000331.00
 Corr/FF/build
 2020:072:202201
 2020:086:175312
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	819/0	819/0	819/0	819/0	819/0	819/0	819/0	819/0			
k	1000	1000	1000	1000	1000	1000	1000	1000			
p	1000	1000	1000	1000	1000	1000	1000	1000			
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
k	1000	1000	1000	1000	1000	1000	1000	1000			
p	1000	1000	1000	1000	1000	1000	1000	1000			
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)	5.70231832861E+01		Apriori delay (usec)		5.78002996293E+01		Resid mbdelay (usec)		4.13366E-03	+/- 1.8E-04	
Sband delay (usec)	5.70306256293E+01		Apriori clock (usec)		-1.2315716E+01		Resid sbdelay (usec)		-7.69674E-01	+/- 1.4E-03	
Phase delay (usec)	5.78003014383E+01		Apriori clockrate (us/s)		-3.9846558E-07		Resid phdelay (usec)		1.80903E-06	+/- 6.1E-07	
Delay rate (us/s)	5.37412889172E-02		Apriori rate (us/s)		5.37524972685E-02		Resid rate (us/s)		-1.12084E-05	+/- 2.5E-09	
Total phase (deg)			347.7		Apriori accel (us/s/s)		-2.84783158132E-06		Resid phase (deg)	56.1	+/- 19.0

ph/seg (deg) 64.9 45.5 Search (2048X32) 0.101 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 88.6 79.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 8.3 26.8 Inc. seg. avg. 0.183 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 37.3 46.8 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
 k: az 317.2 el 78.8 pa 131.5 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) -405.976 -414.778 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/kp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/kp.W.111.12BZHM

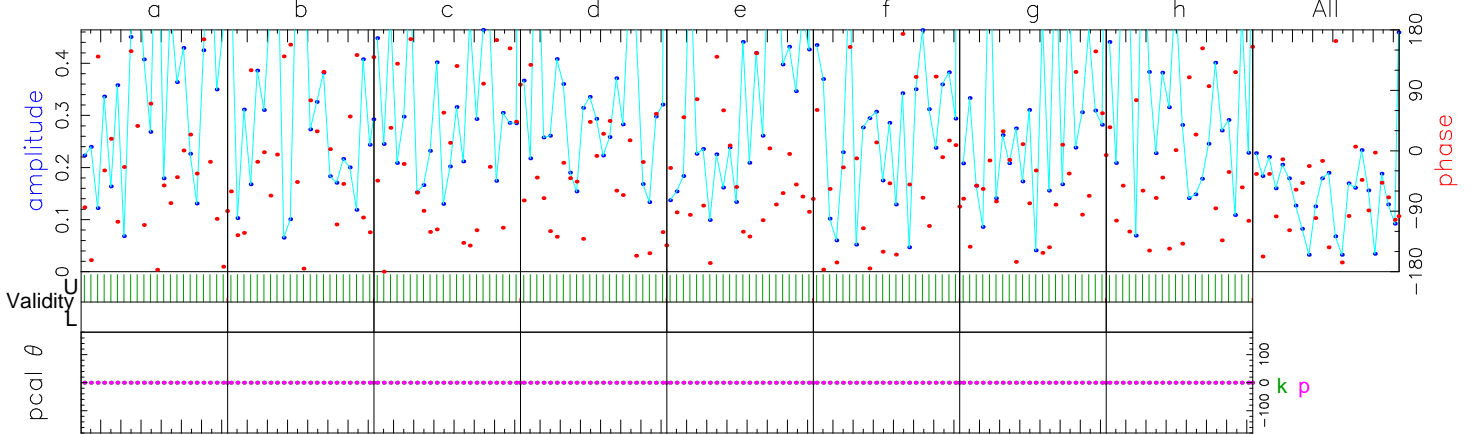


Fringe quality 0

SNR 5.7
Int time 418.819
Amp 0.155
Phase -67.5
PFD 9.6e-01
Delays (us)
SBD 0.990390
MBD -0.006110
Fringe rate (Hz)
-0.945301
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

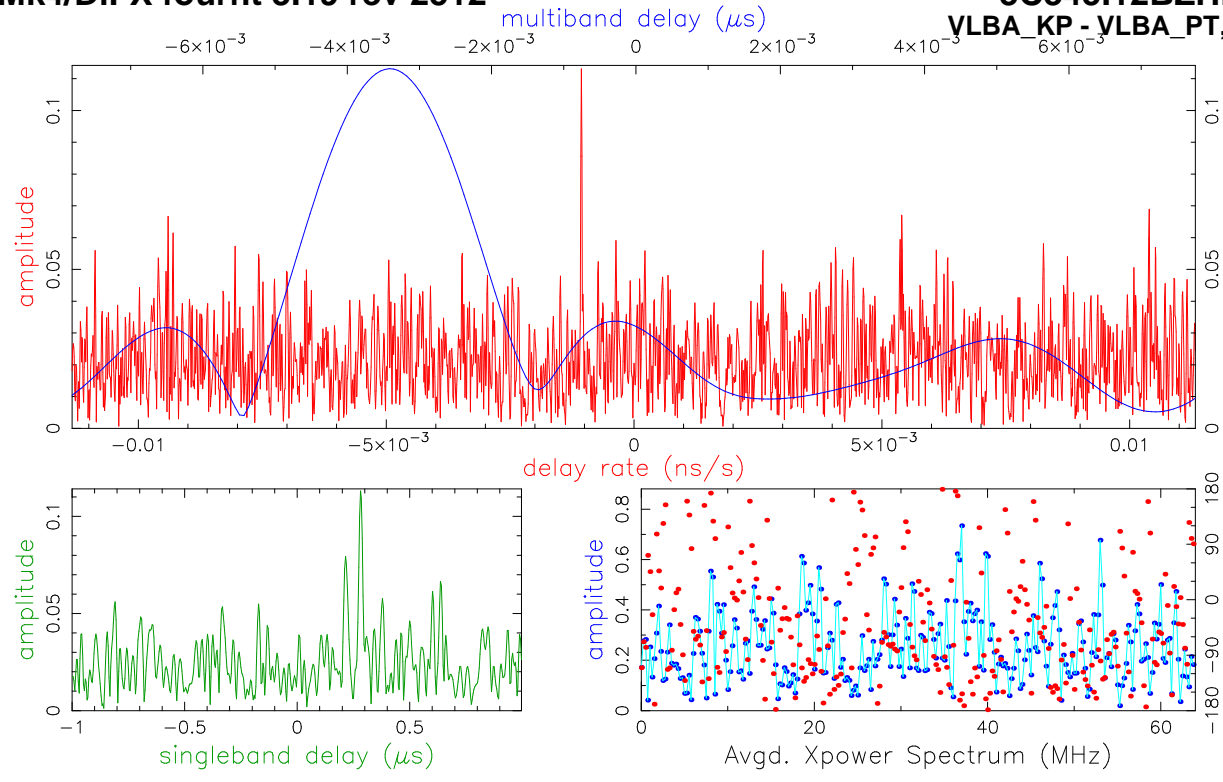
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 000001.51
Stop 000700.84
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175317
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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
	-80.0	-50.7	-149.0	-52.3	-66.6	-93.7	-63.0	-72.3	Phase	-67.5
	0.1	0.2	0.1	0.2	0.3	0.0	0.2	0.2	Ampl.	0.1
	99.0	443.0	244.5	119.2	511.5	491.0	157.0	511.5	Sbd box	510.5
U/L	819/0	819/0	819/0	819/0	819/0	819/0	819/0	819/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.87941898379E+01		Apriori delay (usec)		5.78002996293E+01		Resid mbdelay (usec)		-6.10979E-03	+/- 1.9E-04
Sband delay (usec)	5.87906898793E+01		Apriori clock (usec)		-1.2315716E+01		Resid sbdelay (usec)		9.90390E-01	+/- 1.5E-03
Phase delay (usec)	5.78002974531E+01		Apriori clockrate (us/s)		-3.9846558E-07		Resid phdelay (usec)		-2.17621E-06	+/- 6.5E-07
Delay rate (us/s)	5.37415232662E-02		Apriori rate (us/s)		5.37524972685E-02		Resid rate (us/s)		-1.09740E-05	+/- 2.7E-09
Total phase (deg)	224.1		Apriori accel (us/s/s)		-2.84783158132E-06		Resid phase (deg)		-67.5	+/- 20.1

ph/seg (deg) 55.7 48.3 Search (2048X32) 0.097 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 78.6 84.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 36.6 28.5 Inc. seg. avg. 0.164 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 49.6 49.7 Inc. frq. avg. 0.142 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 317.2 el 78.8 pa 131.5 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) -405.976 -414.778 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/kp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/kp.W.129.12BZHM

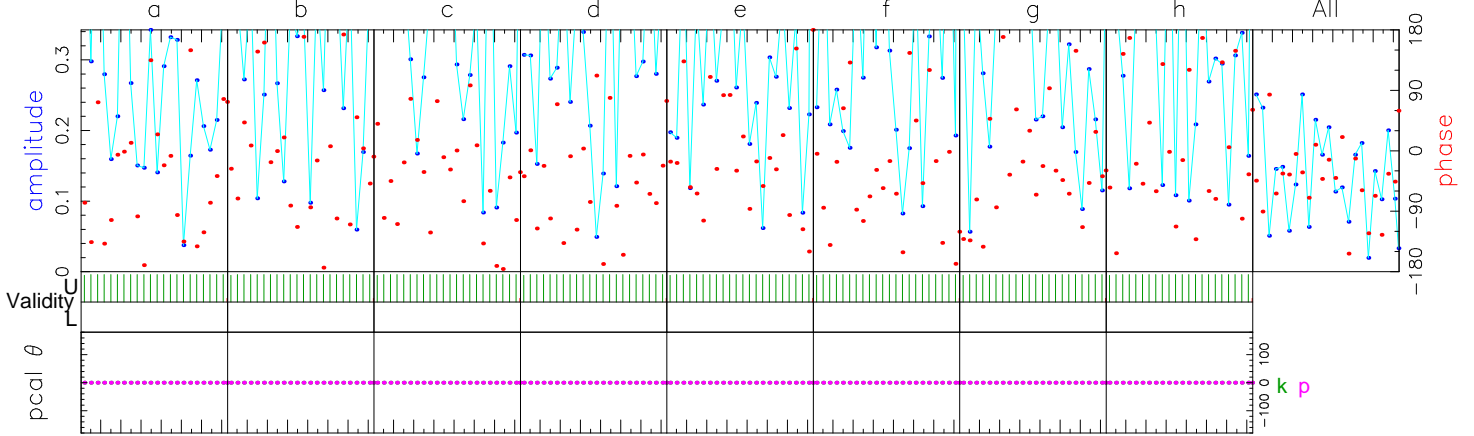


Fringe quality 0

SNR 6.4
Int time 418.819
Amp 0.114
Phase -39.6
PFD 5.1e-02
Delays (us)
SBD 0.282341
MBD -0.003369
Fringe rate (Hz)
-0.091255
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 000001.51
Stop 000700.84
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175321
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



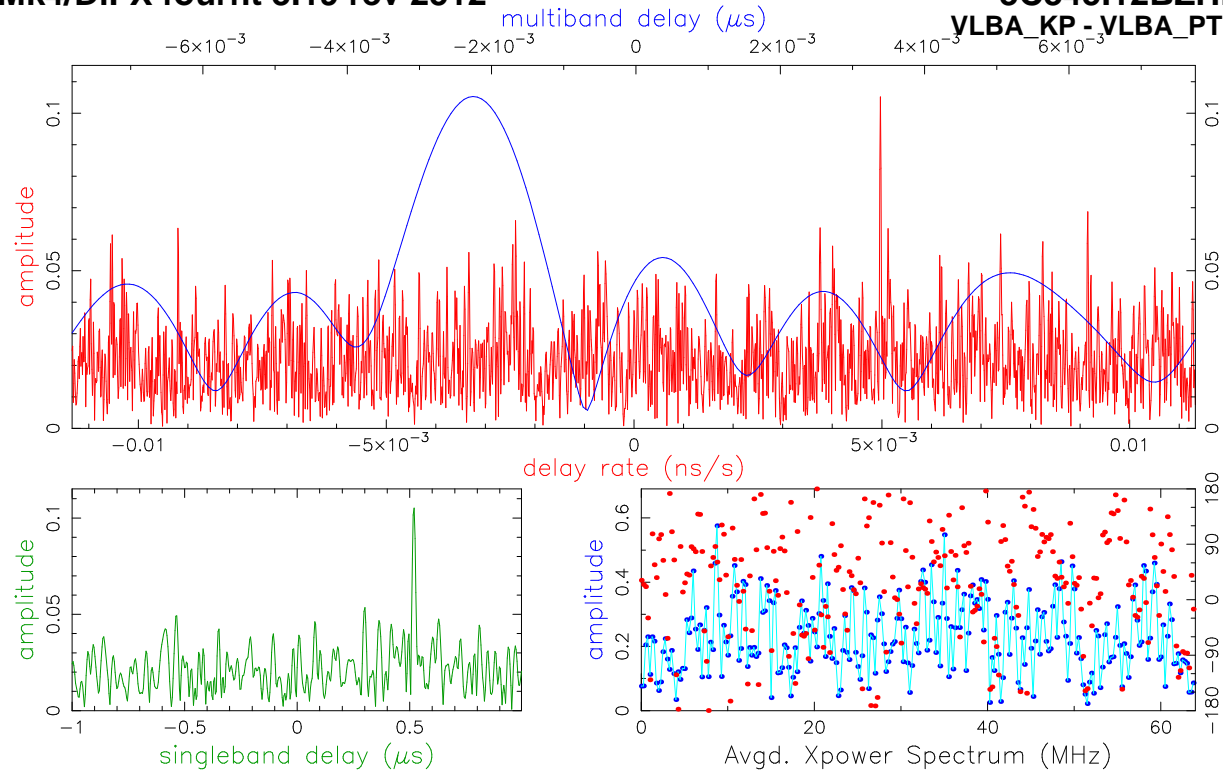
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-34.6	-44.8	-33.8	-44.9	7.0	-51.7	-37.3	-48.4	Phase	-39.6
	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1
	1.4	79.1	334.9	310.9	468.4	261.6	410.5	215.3	Sbd box	329.3
U/L	819/0	819/0	819/0	819/0	819/0	819/0	819/0	819/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.80781807812E+01		Apriori delay (usec)		5.78002996293E+01		Resid mbdelay (usec)		-3.36885E-03	+/- 1.7E-04
Sband delay (usec)	5.80826406293E+01		Apriori clock (usec)		-1.2315716E+01		Resid sbdelay (usec)		2.82341E-01	+/- 1.4E-03
Phase delay (usec)	5.78002983508E+01		Apriori clockrate (us/s)		-3.9846558E-07		Resid phdelay (usec)		-1.27851E-06	+/- 5.8E-07
Delay rate (us/s)	5.37514378884E-02		Apriori rate (us/s)		5.37524972685E-02		Resid rate (us/s)		-1.05938E-06	+/- 2.4E-09
Total phase (deg)	252.0		Apriori accel (us/s/s)		-2.84783158132E-06		Resid phase (deg)		-39.6	+/- 18.0

RMS Theor. Amplitude 0.114 +/- 0.018
 ph/seg (deg) 51.0 43.1 Search (2048X32) 0.107
 amp/seg (%) 62.5 75.3 Interp. 0.000
 ph/frq (deg) 20.5 25.4 Inc. seg. avg. 0.111
 amp/frq (%) 32.8 44.4 Inc. frq. avg. 0.106

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

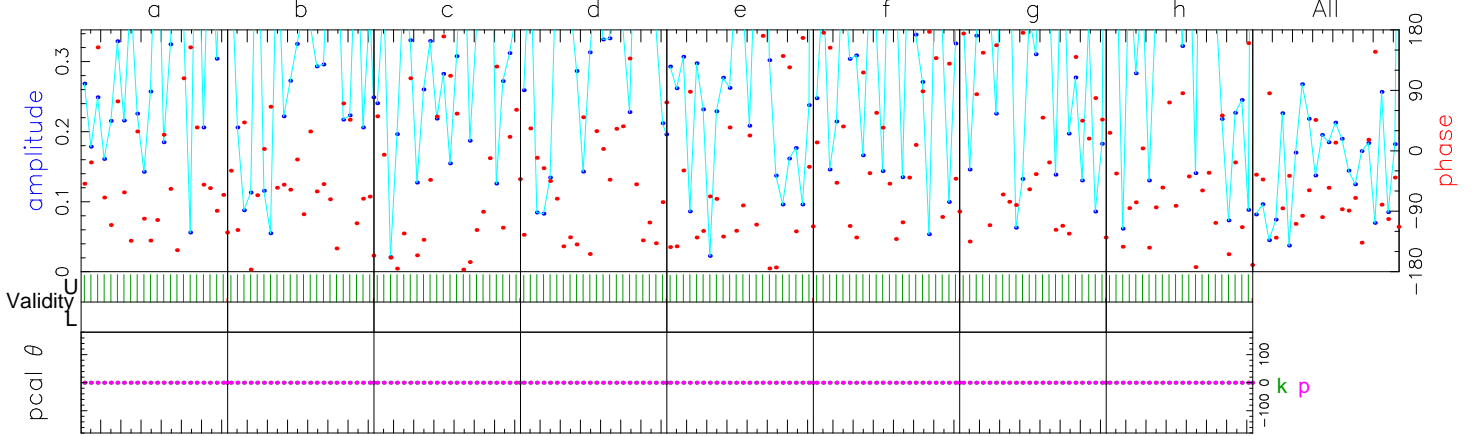
sb window (us) -1.000 1.000
 mb window (us) -0.008 0.008
 dr window (ns/s) -0.011 0.011
 ion window (TEC) 0.00 0.00

k: az 317.2 el 78.8 pa 131.5 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) -405.976 -414.778 simultaneous interpolator



Fringe quality 0
SNR 5.9
Int time 418.819
Amp 0.115
Phase -71.9
PFD 5.1e-01
Delays (us)
SBD 0.518247
MBD -0.002304
Fringe rate (Hz) 0.428589
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 000001.51
Stop 000700.84
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175307
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

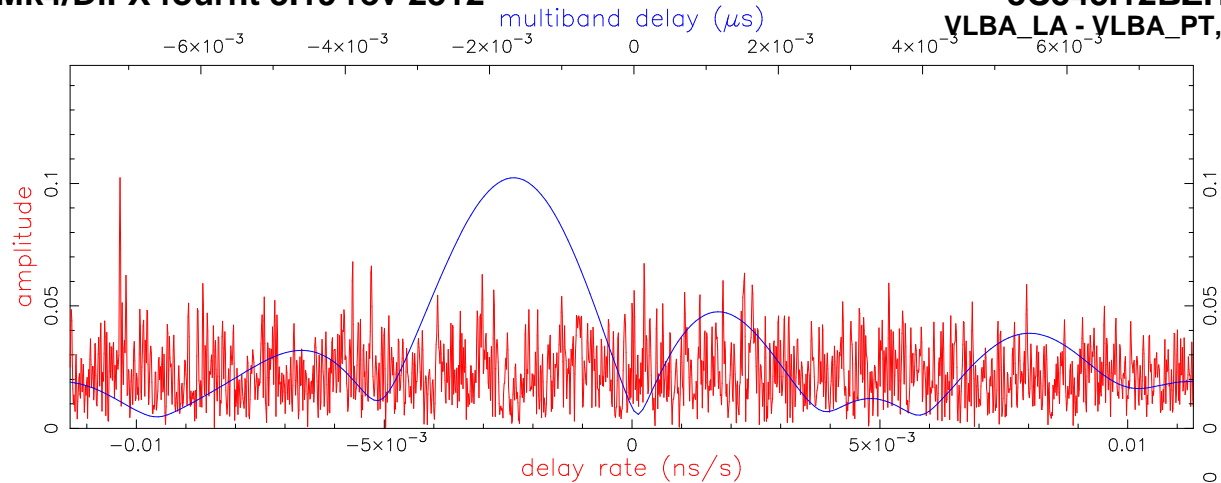


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-74.9	-61.5	-81.3	-64.4	-128.7	-49.5	-81.6	-52.6		-71.9
	0.1	0.2	0.0	0.1	0.2	0.1	0.1	0.2		0.1
	398.1	390.1	348.7	447.7	383.7	369.3	320.3	390.4		389.7
U/L	819/0	819/0	819/0	819/0	819/0	819/0	819/0	819/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
p	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
k:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
kp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
k	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
p	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks
										Tracks
Group delay (usec)(sbd)	5.83136211225E+01		Apriori delay (usec)		5.78002996293E+01		Resid mbdelay (usec)		-2.30351E-03	+/- 1.8E-04
Sband delay (usec)	5.83185466293E+01		Apriori clock (usec)		-1.2315716E+01		Resid sbdelay (usec)		5.18247E-01	+/- 1.4E-03
Phase delay (usec)	5.78002973106E+01		Apriori clockrate (us/s)		-3.9846558E-07		Resid phdelay (usec)		-2.31875E-06	+/- 6.2E-07
Delay rate (us/s)	5.37574727672E-02		Apriori rate (us/s)		5.37524972685E-02		Resid rate (us/s)		4.97550E-06	+/- 2.6E-09
Total phase (deg)	219.7		Apriori accel (us/s/s)		-2.84783158132E-06		Resid phase (deg)		-71.9	+/- 19.3

ph/seg (deg) 63.9 46.2 Search (2048X32) 0.099 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 88.1 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) 27.2 27.3 Inc. seg. avg. 0.128 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 55.4 47.6 Inc. frq. avg. 0.113 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 317.2 el 78.8 pa 131.5 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) -405.976 -414.778 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/kp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/kp.W.87.12BZHM

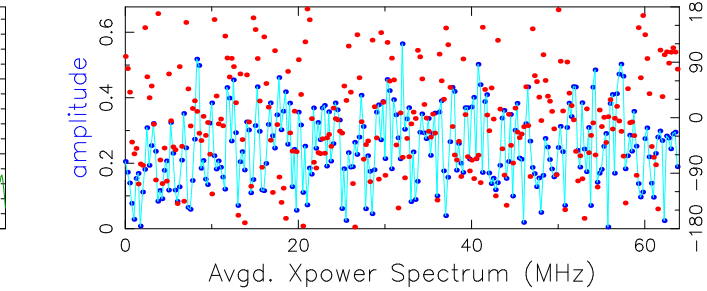
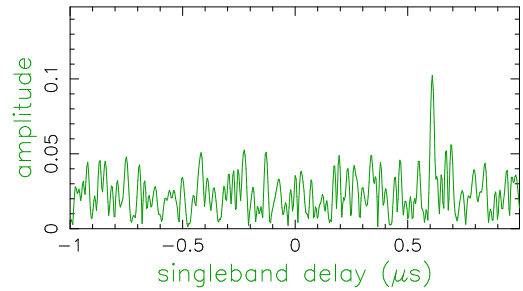
Mk4/DiFX fourfit 3.19 rev 2512

3C345.12BZHM, No0023, lp
VLBA_LA - VLBA_PT, fgroup W, pol RR



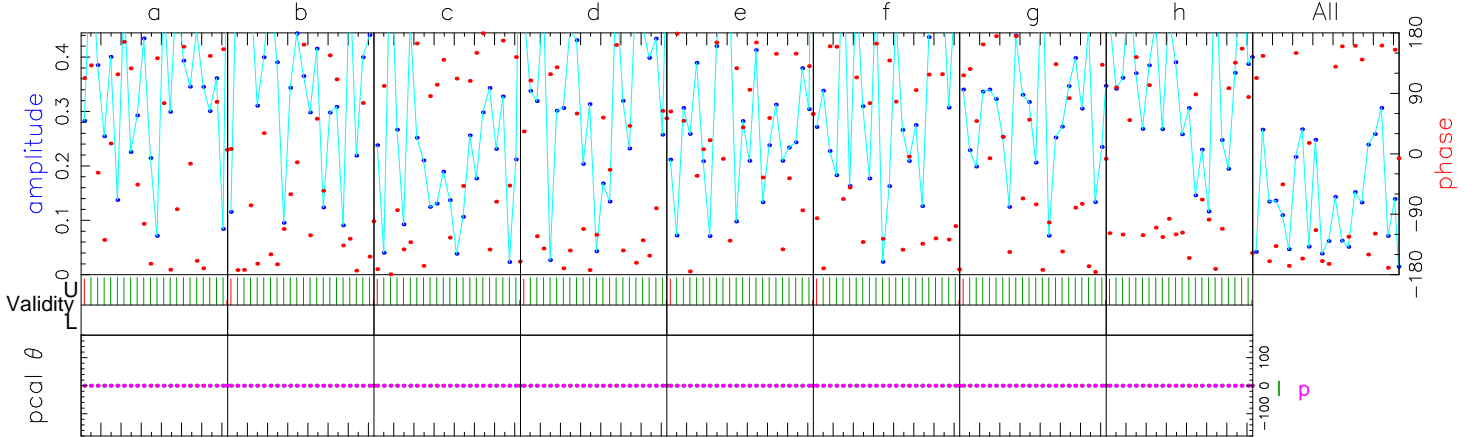
Fringe quality 0

SNR 5.7
Int time 418.793
Amp 0.148
Phase -173.4
PFD 9.2e-01
Delays (us)
SBD 0.608973
MBD -0.001677
Fringe rate (Hz)
-0.891471
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 000001.00
Stop 000700.84
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175313
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

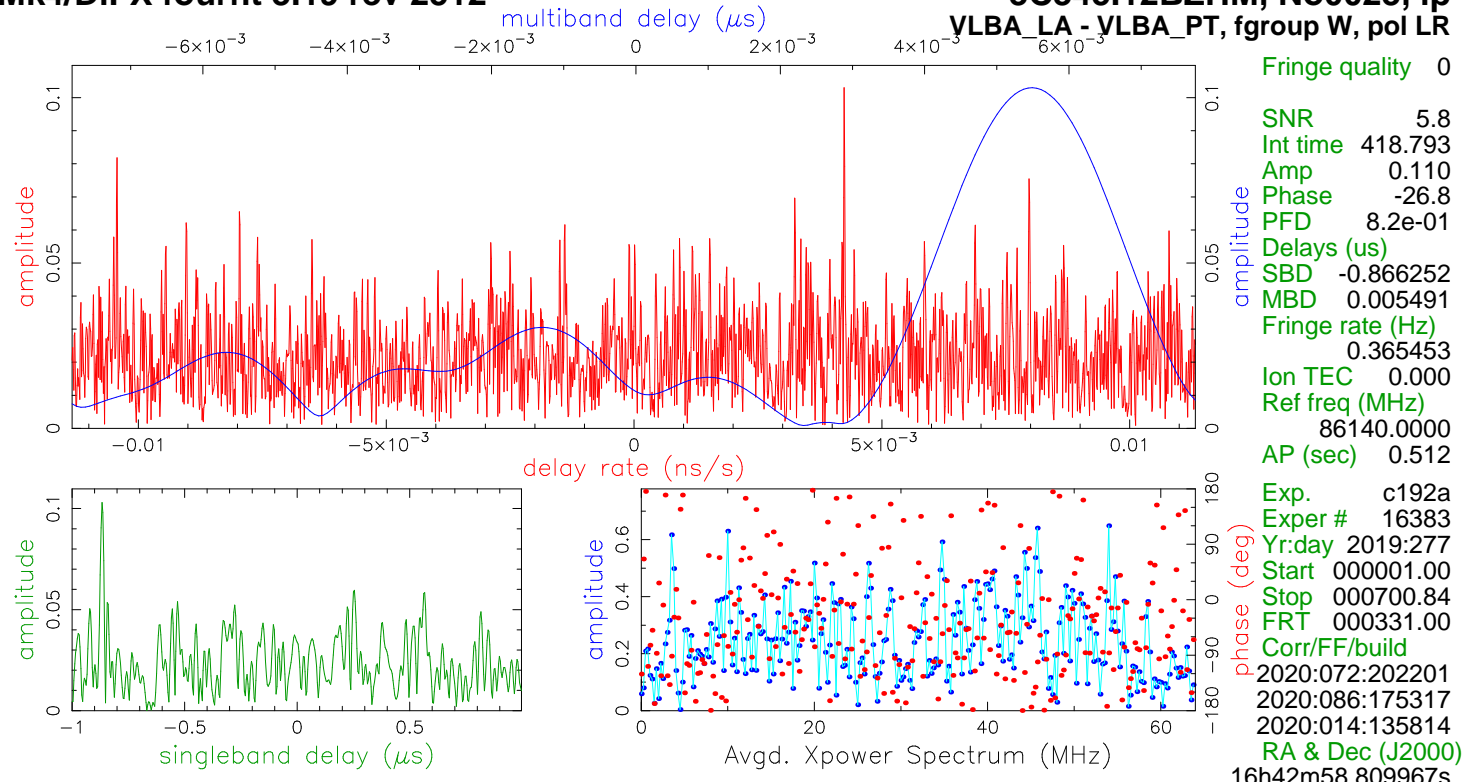
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



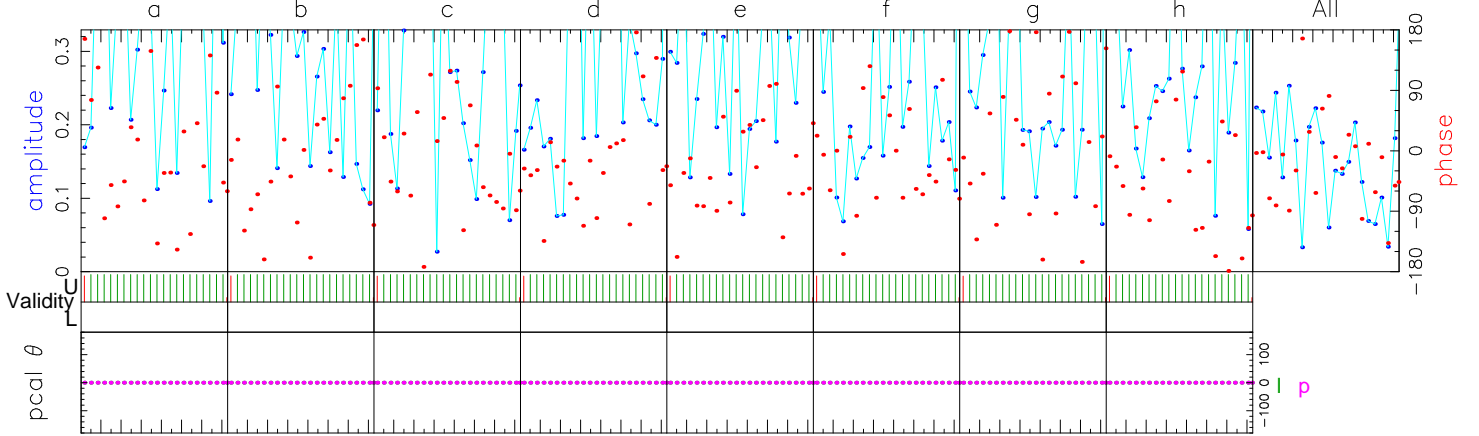
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
lp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-7.46486427672E+01	-7.46473670534E+01	-7.52563458940E+01	-2.62433190475E-02						
Sband delay (usec)										
Phase delay (usec)										
Delay rate (us/s)										
Total phase (deg)			-228.7							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
RMS	59.5	48.0								
Theor.	48.0									
Amplitude	0.148 +/- 0.026									
Search (2048X32)	0.100									
Interp.	0.000									
Inc. seg. avg.	0.154									
Inc. frq. avg.	0.138									
PC period (AP's) 5, 5										
SampCntNorm: enabled										
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								
Chan ids										
Tracks										
Chan ids										
Tracks										
simultaneous interpolator										

Mk4/DiFX fourfit 3.19 rev 2512

3C345.12BZHM, No0023, lp
VLBA_LA - VLBA_PT, fgroup W, pol LR



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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
	-24.5	-29.5	-8.7	-37.1	-31.6	-19.7	-37.7	-24.3	Phase	-26.8
	0.1	0.1	0.1	0.2	0.1	0.2	0.0	0.1	Ampl.	0.1
	297.3	160.4	45.2	115.5	274.5	441.0	465.3	314.8	Sbd box	35.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
lp	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-7.61258492125E+01		Apriori delay (usec)	-7.52563403034E+01	Resid mbdelay (usec)	5.49109E-03	+/-	1.9E-04		
Sband delay (usec)	-7.61225923034E+01		Apriori clock (usec)	-1.2657156E+01	Resid sbdelay (usec)	-8.66252E-01	+/-	1.5E-03		
Phase delay (usec)	-7.52563411674E+01		Apriori clockrate (us/s)	-5.5535860E-07	Resid phdelay (usec)	-8.64051E-07	+/-	6.4E-07		
Delay rate (us/s)	-2.62287274094E-02		Apriori rate (us/s)	-2.62329699548E-02	Resid rate (us/s)	4.24255E-06	+/-	2.6E-09		
Total phase (deg)		-82.1	Apriori accel (us/s/s)	1.85035199360E-06	Resid phase (deg)	-26.8	+/-	19.8		

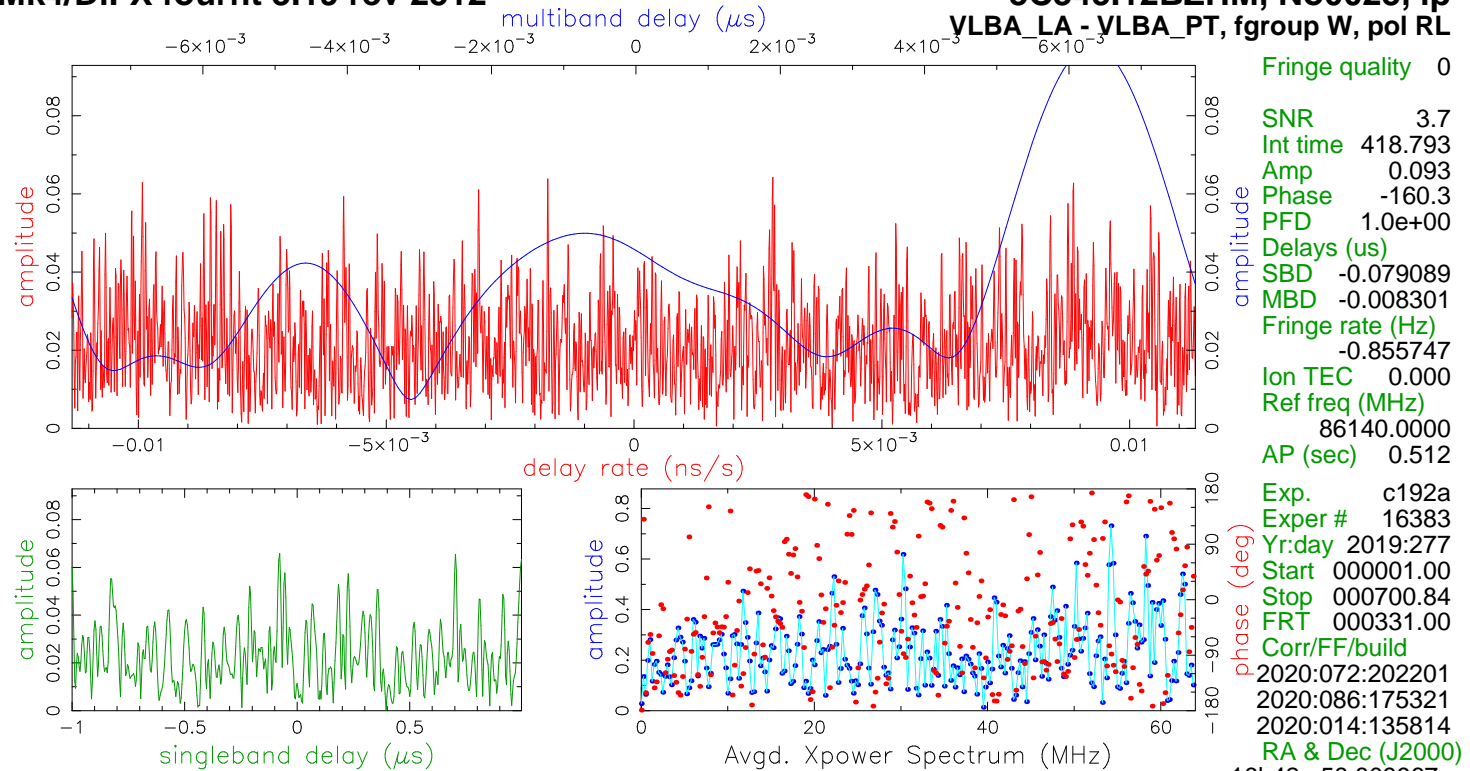
	RMS	Theor.	Amplitude	0.110 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	62.8	47.4	Search (2048X32)	0.099	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	79.7	82.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	10.4	28.0	Inc. seg. avg.	0.119	Sample rate(MSamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	39.7	48.8	Inc. frq. avg.	0.099	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

l: az 293.0 el 77.3 pa 102.6 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) 198.985 261.739 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/lp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/lp.W.132.12BZHM

Mk4/DiFX fourfit 3.19 rev 2512

3C345.12BZHM, No0023, lp
VLBA_LA - VLBA_PT, fgroup W, pol RL



Fringe quality 0

SNR 3.7

Int time 418.793

Amp 0.093

Phase -160.3

PFD 1.0e+00

Delays (us)

SBD -0.079089

MBD -0.008301

Fringe rate (Hz)

-0.855747

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c192a

Exper # 16383

Yr:day 2019:277

Start 000001.00

Stop 000700.84

FRT 000331.00

Corr/FF/build

2020:072:202201

2020:086:175321

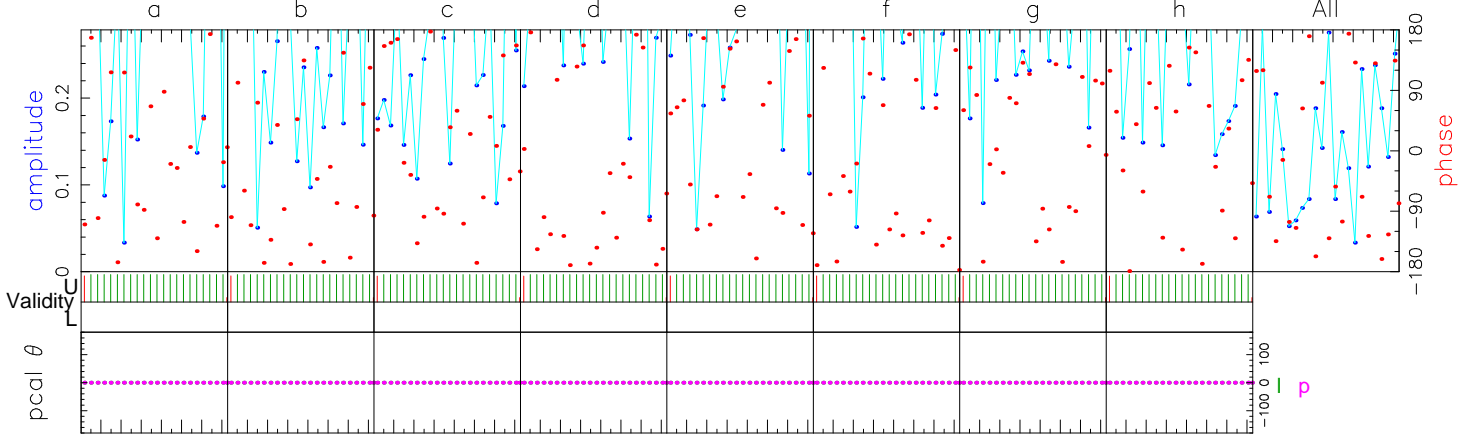
2020:014:135814

RA & Dec (J2000)

16h42m58.809967s

+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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
	-92.8	-114.8	-76.8	-157.0	-145.3	-152.2	95.5	110.7	Phase	-160.3
	0.1	0.1	0.1	0.3	0.1	0.2	0.1	0.2	Ampl.	0.1
	435.3	439.4	484.2	511.5	204.6	243.5	338.4	249.1	Sbd box	236.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:p	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	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)	-7.53427660846E+01			Apriori delay (usec)	-7.52563403034E+01			Resid mbdelay (usec)	-8.30078E-03	+/- 2.9E-04
Sband delay (usec)	-7.53354295534E+01			Apriori clock (usec)	-1.2657156E+01			Resid sbdelay (usec)	-7.90892E-02	+/- 2.3E-03
Phase delay (usec)	-7.52563454728E+01			Apriori clockrate (us/s)	-5.5535860E-07			Resid phdelay (usec)	-5.16941E-06	+/- 1.0E-06
Delay rate (us/s)	-2.62429043259E-02			Apriori rate (us/s)	-2.62329699548E-02			Resid rate (us/s)	-9.93437E-06	+/- 4.1E-09
Total phase (deg)		-215.6		Apriori accel (us/s/s)	1.85035199360E-06			Resid phase (deg)	-160.3	+/- 30.9

ph/seg (deg) 73.4 74.1 Search (2048X32) 0.100 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

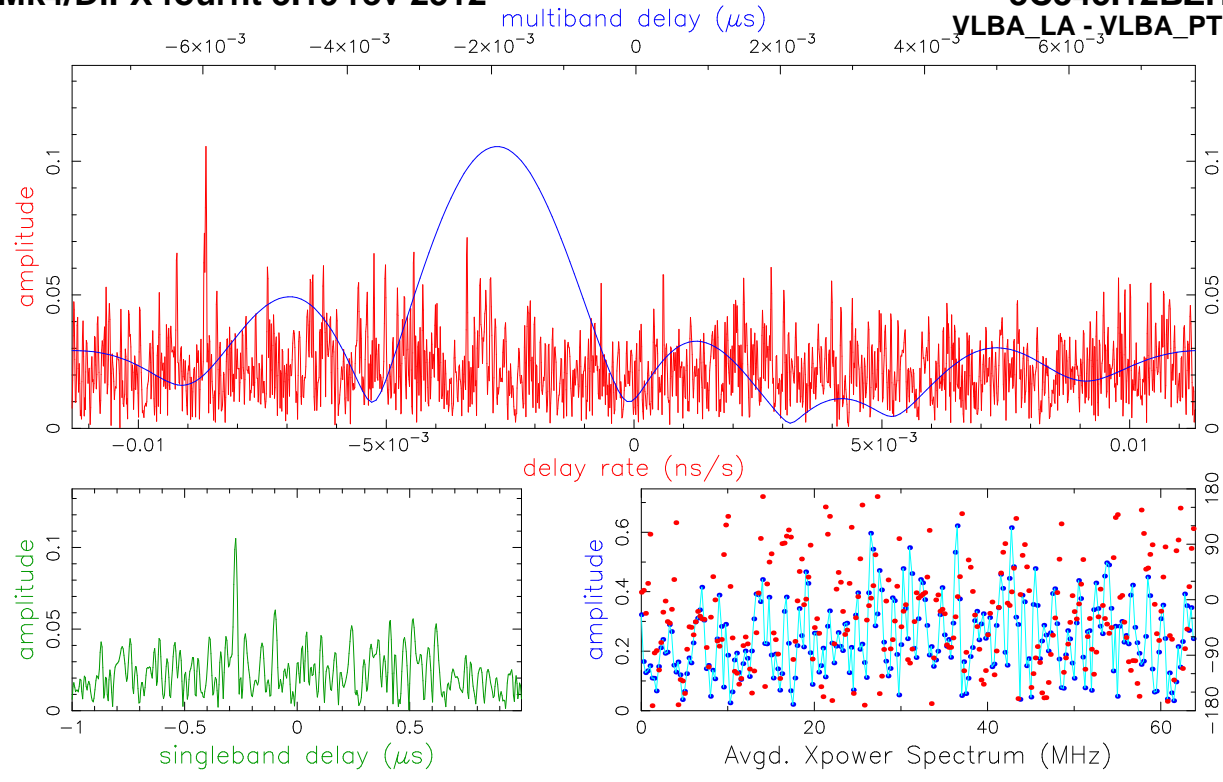
amp/seg (%) 167.7 129.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 73.8 43.7 Inc. seg. avg. 0.112 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 105.2 76.3 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

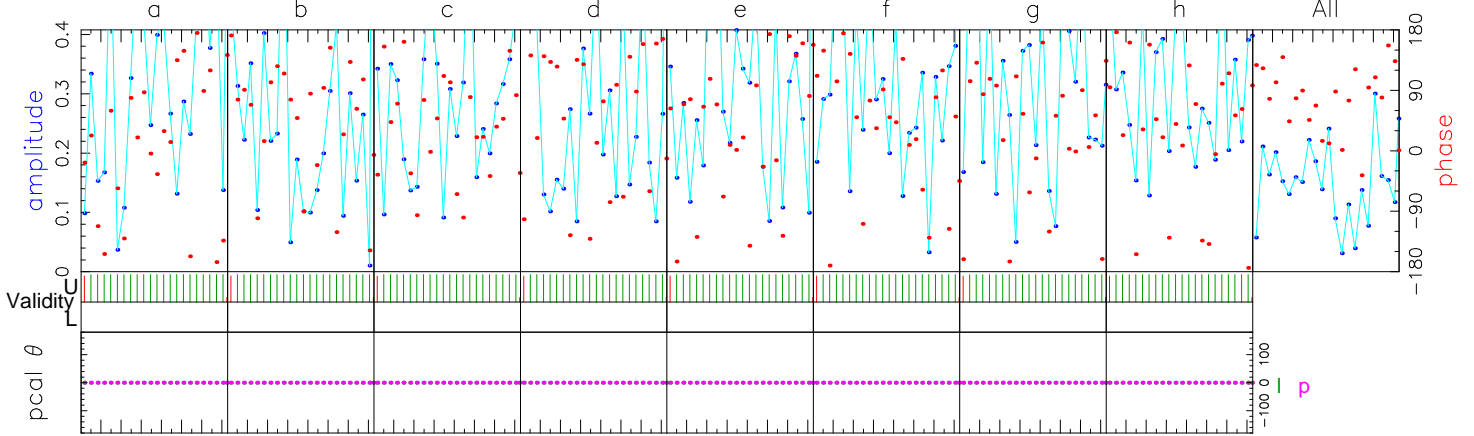
l: az 293.0 el 77.3 pa 102.6 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) 198.985 261.739 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/lp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/lp.W.150.12BZHM



Fringe quality 0
SNR 5.9
Int time 418.793
Amp 0.136
Phase 81.2
PFD 5.7e-01
Delays (us)
SBD -0.273897
MBD -0.001937
Fringe rate (Hz)
-0.744657
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 000001.00
Stop 000700.84
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175308
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

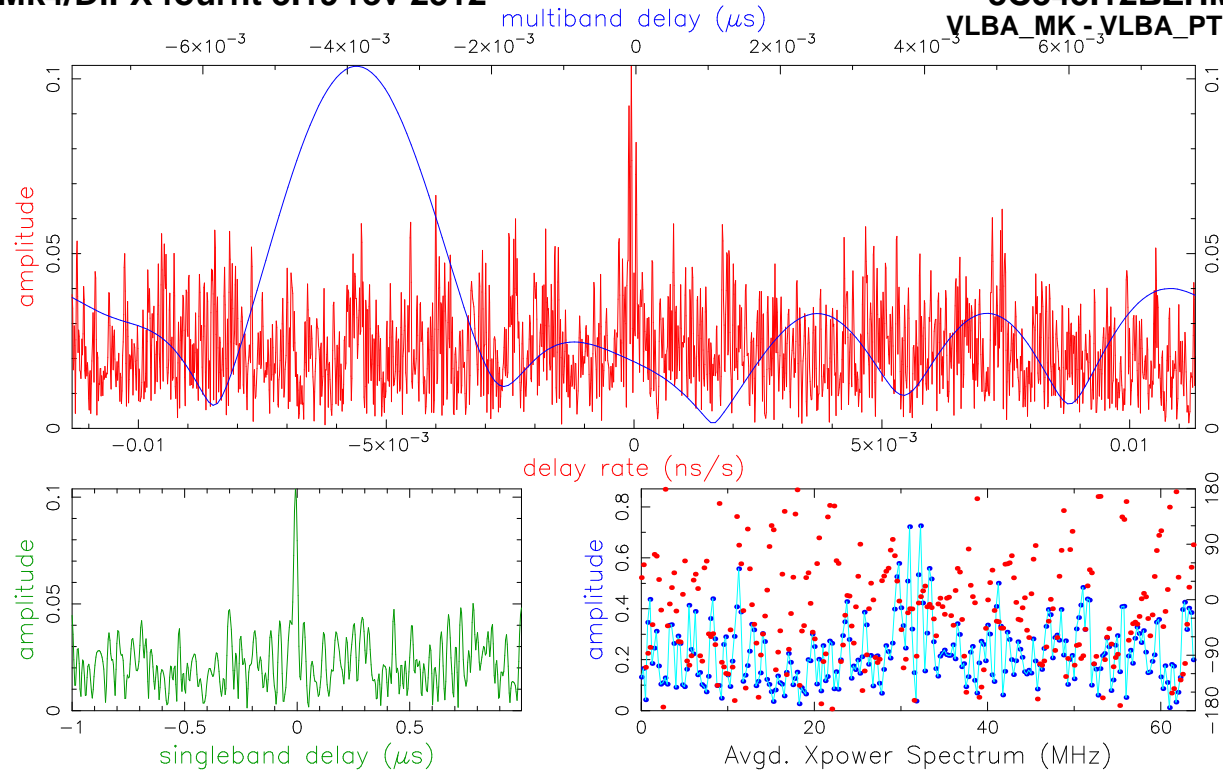


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:p	0:0	0:0	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	
p	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-7.55239024107E+01	Apriori delay (usec)	-7.52563403034E+01	Resid mbdelay (usec)	-1.93711E-03	+/-	1.8E-04
Sband delay (usec)	-7.55302373034E+01	Apriori clock (usec)	-1.2657156E+01	Resid sbdelay (usec)	-2.73897E-01	+/-	1.5E-03
Phase delay (usec)	-7.52563376849E+01	Apriori clockrate (us/s)	-5.5535860E-07	Resid phdelay (usec)	2.61842E-06	+/-	6.2E-07
Delay rate (us/s)	-2.62416146858E-02	Apriori rate (us/s)	-2.62329699548E-02	Resid rate (us/s)	-8.64473E-06	+/-	2.6E-09
Total phase (deg)		Apriori accel (us/s/s)	1.85035199360E-06	Resid phase (deg)	81.2	+/-	19.4

ph/seg (deg)	48.6	Theor.	46.5	Amplitude	0.136 +/- 0.023	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	73.2		81.1	Search (2048X32)	0.103	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	31.9		27.4	Interp.	0.000	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	30.2		47.8	Inc. seg. avg.	0.144	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00
				Inc. frq. avg.	0.130		t_cohere infinite			

l: az 293.0 el 77.3 pa 102.6 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) 198.985 261.739 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/lp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/lp.W.92.12BZHM

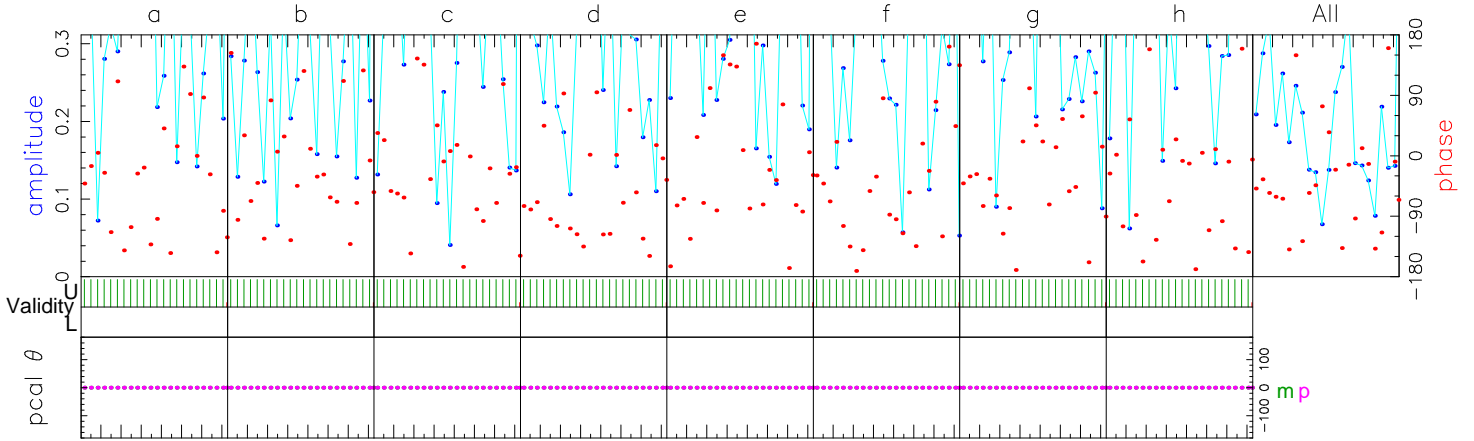


Fringe quality 0

SNR 5.8
Int time 419.667
Amp 0.104
Phase -60.9
PFD 7.8e-01
Delays (us)
SBD -0.007155
MBD -0.003878
Fringe rate (Hz)
-0.004615
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 000001.00
Stop 000700.84
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175310
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

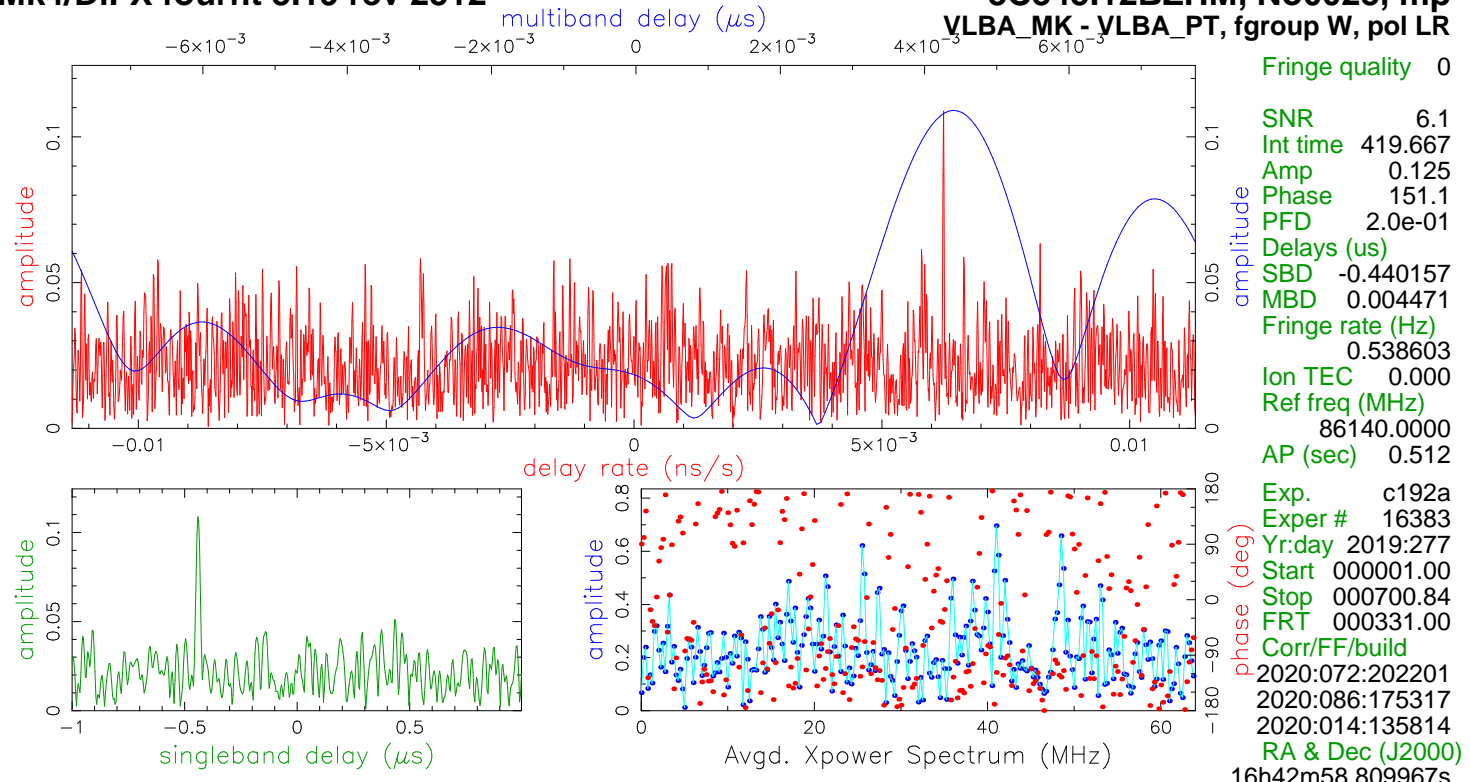


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-76.6	-26.9	-51.8	-72.5	-85.0	-60.8	-20.6	-89.6	86140.00	-60.9
	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	Ampl.	0.1
	339.2	80.4	437.7	482.0	395.1	441.5	61.4	257.1	Sbd box	255.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	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)	-3.26326429970E+03		Apriori delay (usec)		-3.26326042140E+03		Resid mbdelay (usec)		-3.87830E-03	+/- 1.9E-04
Sband delay (usec)	-3.26326757640E+03		Apriori clock (usec)		-9.3460751E+00		Resid sbdelay (usec)		-7.15500E-03	+/- 1.5E-03
Phase delay (usec)	-3.26326042337E+03		Apriori clockrate (us/s)		-2.1257888E-07		Resid phdelay (usec)		-1.96353E-06	+/- 6.4E-07
Delay rate (us/s)	8.55766531890E-01		Apriori rate (us/s)		8.55766585465E-01		Resid rate (us/s)		-5.35755E-08	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		1.10648517232E-06		Resid phase (deg)		-60.9	+/- 19.7

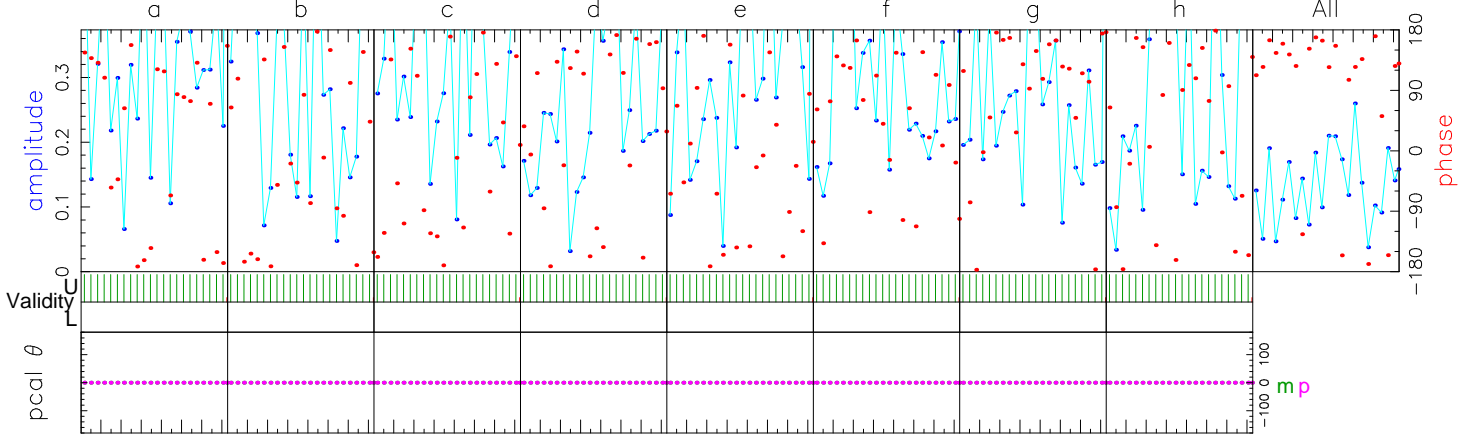
ph/seg (deg) RMS Theor. Amplitude 0.104 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 70.6 47.2 Search (2048X32) 0.103 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 115.5 82.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 27.8 27.9 Inc. seg. avg. 0.146 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 27.4 48.6 Inc. frq. avg. 0.102 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

m: az 48.0 el 54.7 pa -113.9 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) -6378.243 -1377.620 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/mp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/mp.W.104.12BZHM



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

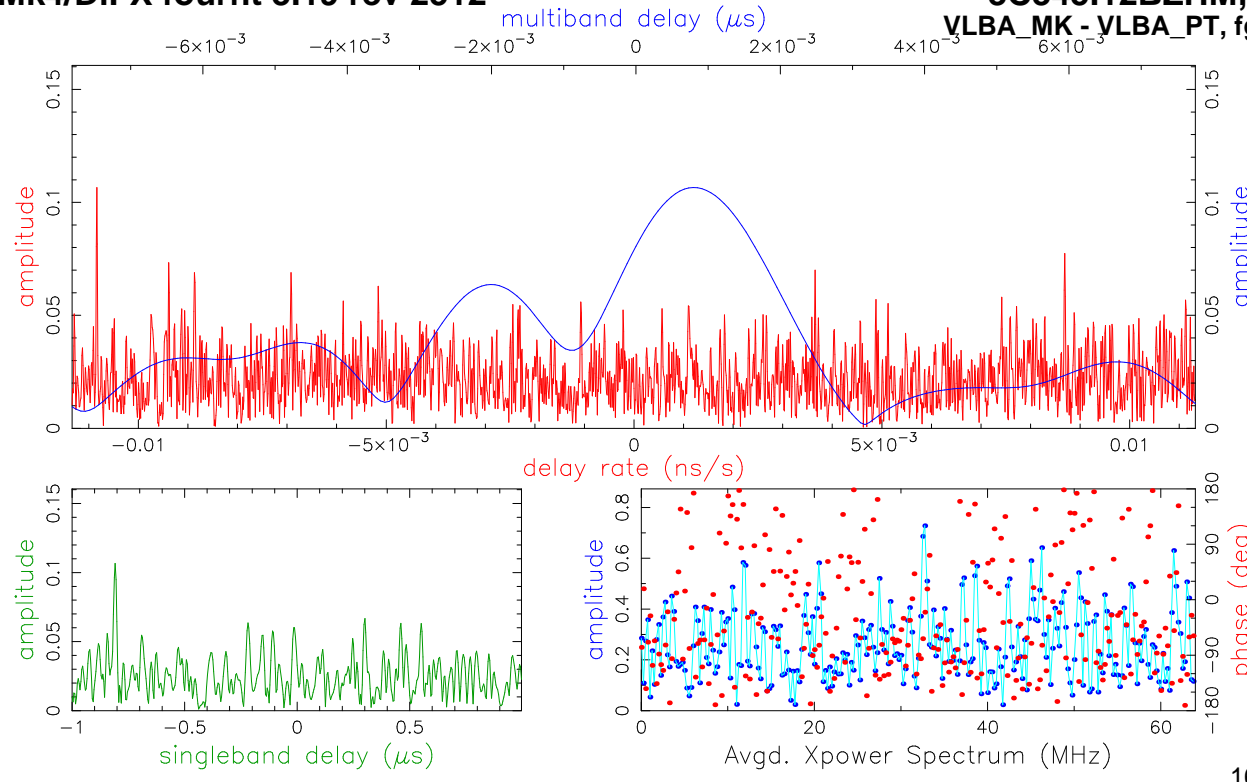


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	139.1	156.5	-177.5	167.3	-126.8	108.5	131.7	167.9	Phase	151.1
	0.2	0.1	0.2	0.1	0.0	0.1	0.2	0.1	Ampl.	0.1
	143.2	355.2	81.0	360.3	449.0	146.0	11.5	145.9	Sbd box	144.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-3.26369345072E+03		Apriori delay (usec)		-3.26326042140E+03		Resid mbdelay (usec)		4.47069E-03	+/- 1.8E-04
Sband delay (usec)	-3.26370057840E+03		Apriori clock (usec)		-9.3460751E+00		Resid sbdelay (usec)		-4.40157E-01	+/- 1.4E-03
Phase delay (usec)	-3.26326041653E+03		Apriori clockrate (us/s)		-2.1257888E-07		Resid phdelay (usec)		4.87361E-06	+/- 6.0E-07
Delay rate (us/s)	8.55772838107E-01		Apriori rate (us/s)		8.55766585465E-01		Resid rate (us/s)		6.25264E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		1.10648517232E-06		Resid phase (deg)		151.1	+/- 18.7

	RMS	Theor.	Amplitude	0.125 +/- 0.020	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	38.5	44.8	Search (2048X32)	0.105	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/seg (%)	57.5	78.2	Interp.	0.000	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	42.1	26.4	Inc. seg. avg.	0.117	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	42.2	46.1	Inc. frq. avg.	0.124					

m: az 48.0 el 54.7 pa -113.9 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) -6378.243 -1377.620 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/mp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/mp.W.133.12BZHM

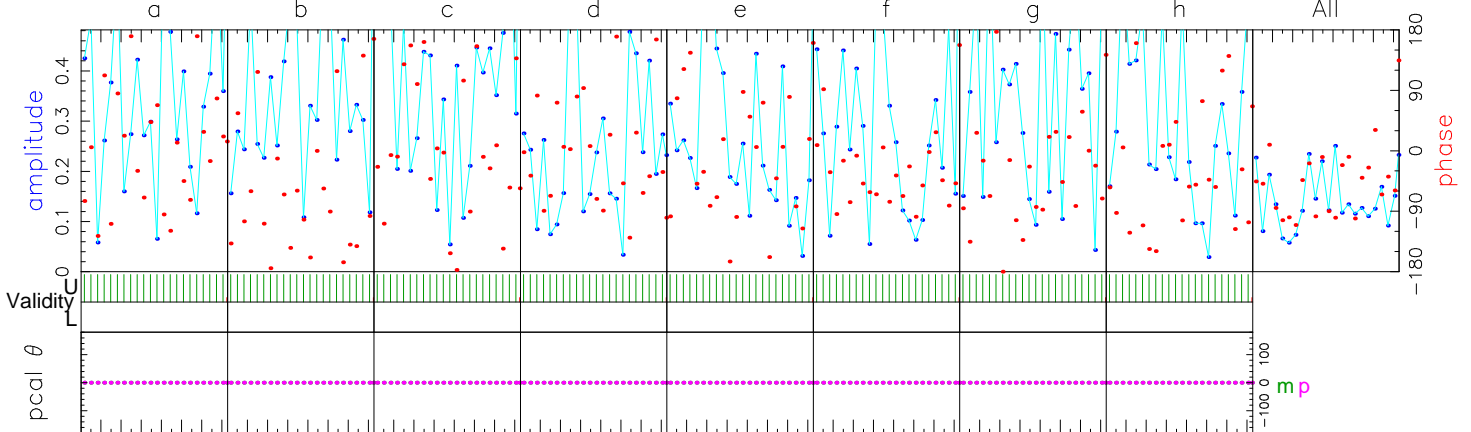


Fringe quality 0

SNR 6.0
Int time 419.672
Amp 0.161
Phase -48.9
PFD 4.5e-01
Delays (us)
SBD -0.808675
MBD 0.000799
Fringe rate (Hz)
-0.934658
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

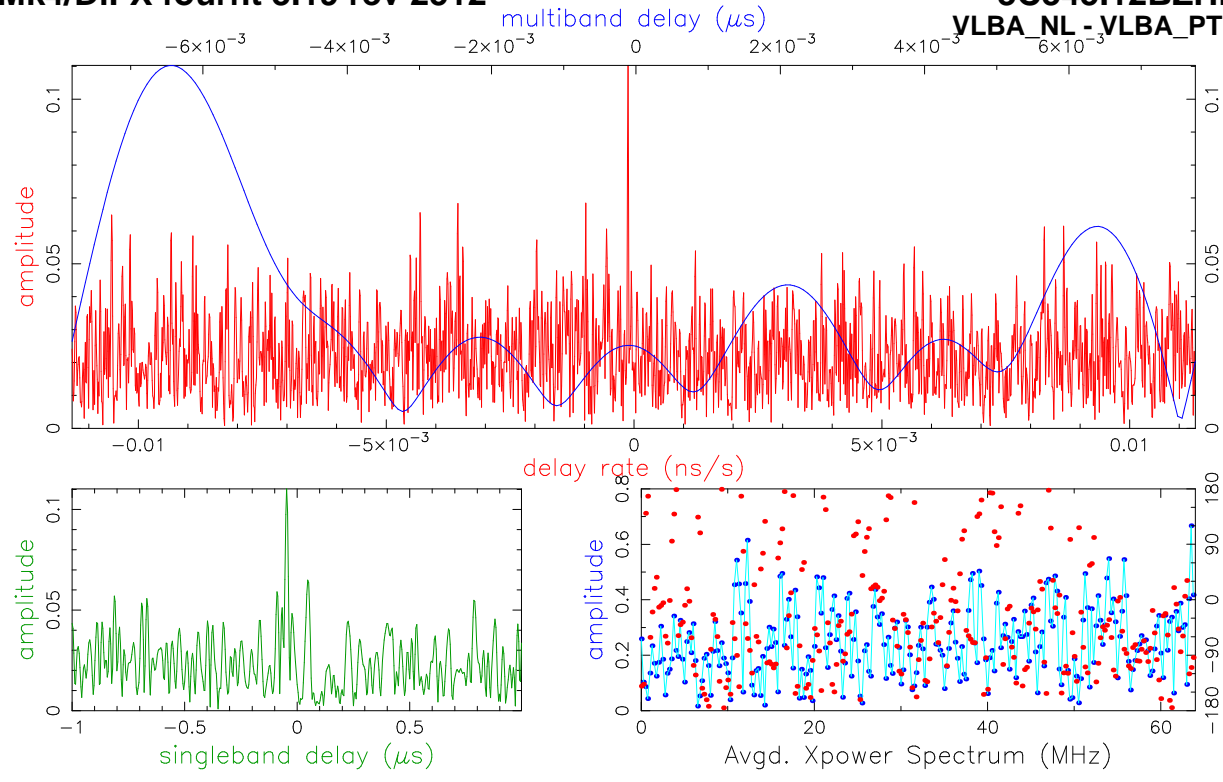
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 000001.00
Stop 000700.84
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175321
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



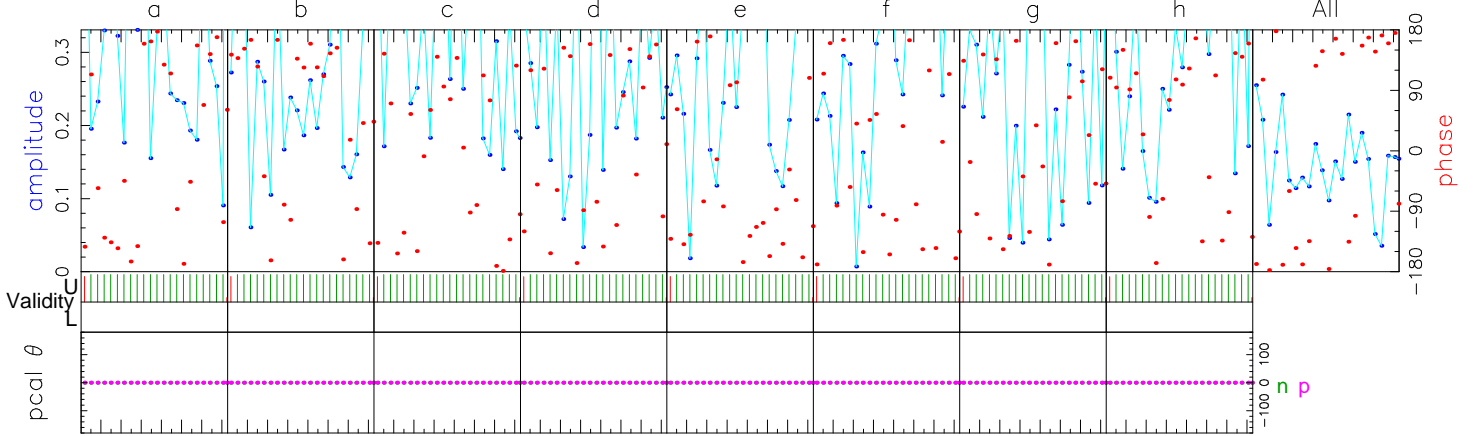
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-14.4	-109.8	-52.4	-20.6	-27.1	-34.0	-52.0	-76.8	Phase	-48.9
	0.2	0.2	0.1	0.2	0.1	0.3	0.2	0.2	Ampl.	0.2
	378.1	164.1	70.0	386.5	324.8	49.1	34.0	420.6	Sbd box	50.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	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)	-3.26407212255E+03		Apriori delay (usec)		-3.26326042140E+03		Resid mbdelay (usec)		7.98853E-04	+/- 1.8E-04
Sband delay (usec)	-3.26406909590E+03		Apriori clock (usec)		-9.3460751E+00		Resid sbdelay (usec)		-8.08675E-01	+/- 1.4E-03
Phase delay (usec)	-3.26326042298E+03		Apriori clockrate (us/s)		-2.1257888E-07		Resid phdelay (usec)		-1.57622E-06	+/- 6.2E-07
Delay rate (us/s)	8.55755735010E-01		Apriori rate (us/s)		8.55766585465E-01		Resid rate (us/s)		-1.08505E-05	+/- 2.6E-09
Total phase (deg)			Apriori accel (us/s/s)		1.10648517232E-06		Resid phase (deg)		-48.9	+/- 19.2

ph/seg (deg) 42.8 46.0 Search (2048X32) 0.105 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 60.1 80.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 34.6 27.1 Inc. seg. avg. 0.160 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 38.7 47.4 Inc. frq. avg. 0.168 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 m: az 48.0 el 54.7 pa -113.9 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) -6378.243 -1377.620 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/mp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/mp.W.153.12BZHM



Fringe quality 0
SNR 6.2
Int time 418.424
Amp 0.110
Phase 179.3
PFD 1.7e-01
Delays (us)
SBD -0.046797
MBD -0.006438
Fringe rate (Hz)
-0.010860
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 000001.00
Stop 000700.84
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175323
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

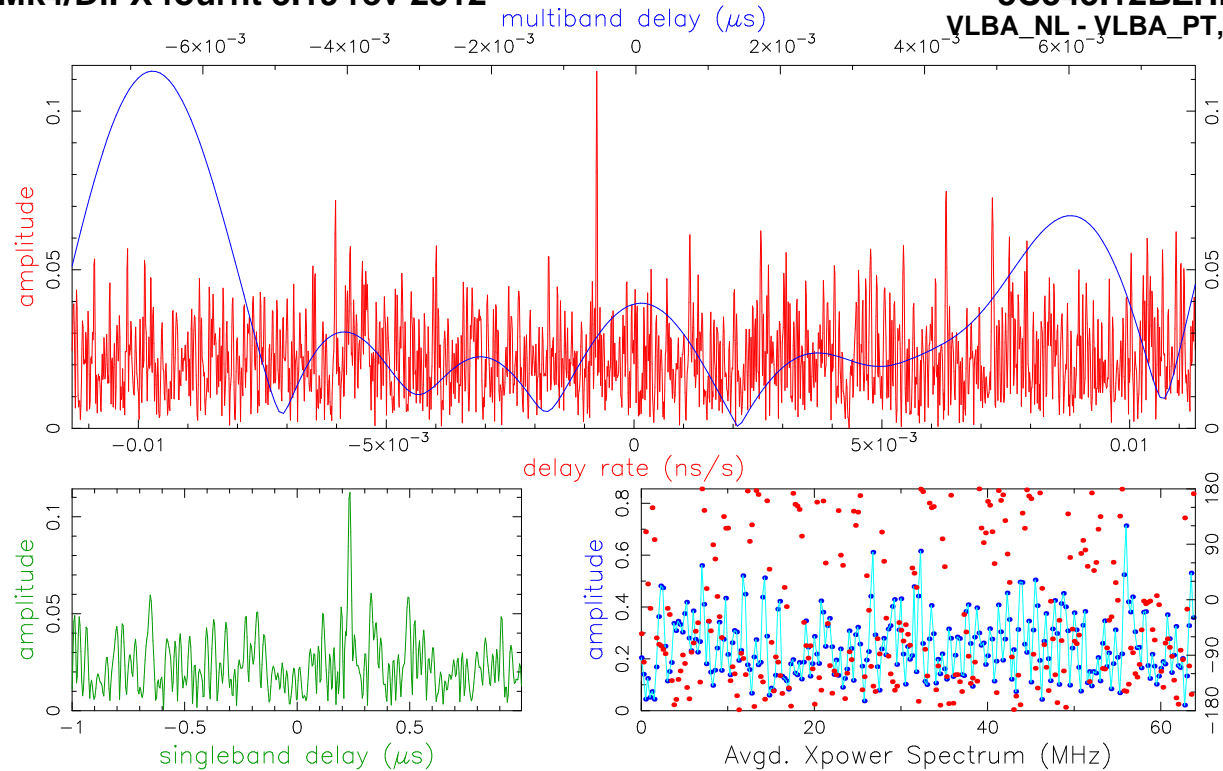


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
n	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
n:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
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)	-1.21436157544E+03	Apriori delay (usec)	-1.21430826252E+03	Resid mbdelay (usec)	-6.43792E-03	+/-	1.8E-04
Sband delay (usec)	-1.21435505927E+03	Apriori clock (usec)	1.4568054E+01	Resid sbdelay (usec)	-4.67968E-02	+/-	1.4E-03
Phase delay (usec)	-1.21430825674E+03	Apriori clockrate (us/s)	-6.9663080E-08	Resid phdelay (usec)	5.78306E-06	+/-	6.0E-07
Delay rate (us/s)	-2.13145781734E-01	Apriori rate (us/s)	-2.13145655657E-01	Resid rate (us/s)	-1.26077E-07	+/-	2.5E-09
Total phase (deg)	-84.8	Apriori accel (us/s/s)	1.39276635632E-05	Resid phase (deg)	179.3	+/-	18.6

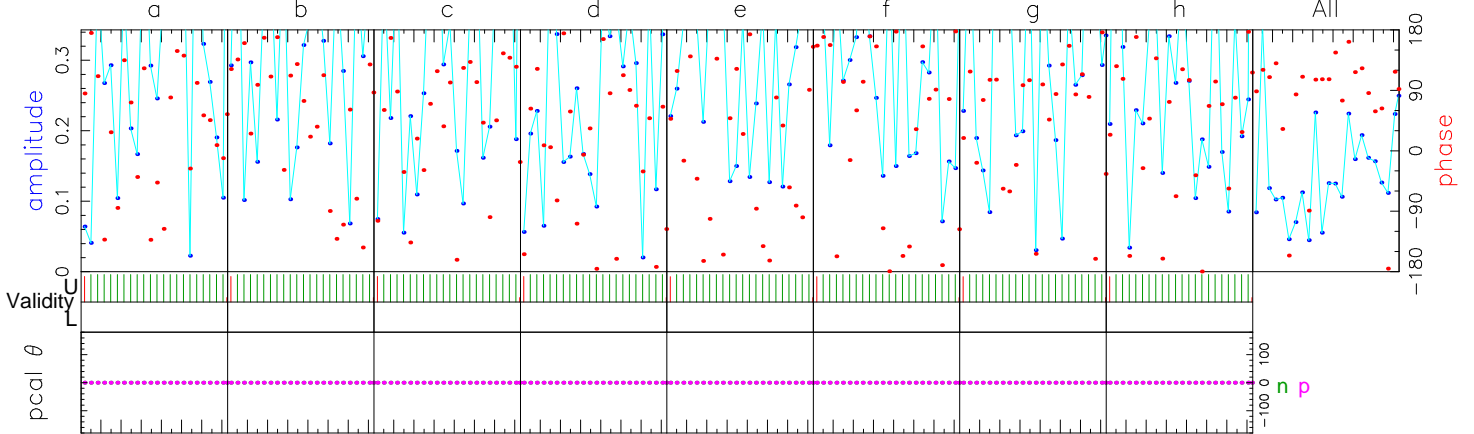
ph/seg (deg)	43.6	Theor.	44.5	Amplitude	0.110 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
amp/seg (%)	59.1	Search (2048X32)	0.104	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	28.8	Inc. seg. avg.	0.112	Inc. frq. avg.	0.110	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	38.2	Inc. frq. avg.	0.110			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 275.0 el 67.4 pa 75.4 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) 1613.805 1588.627 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/np..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/np.W.160.12BZHM

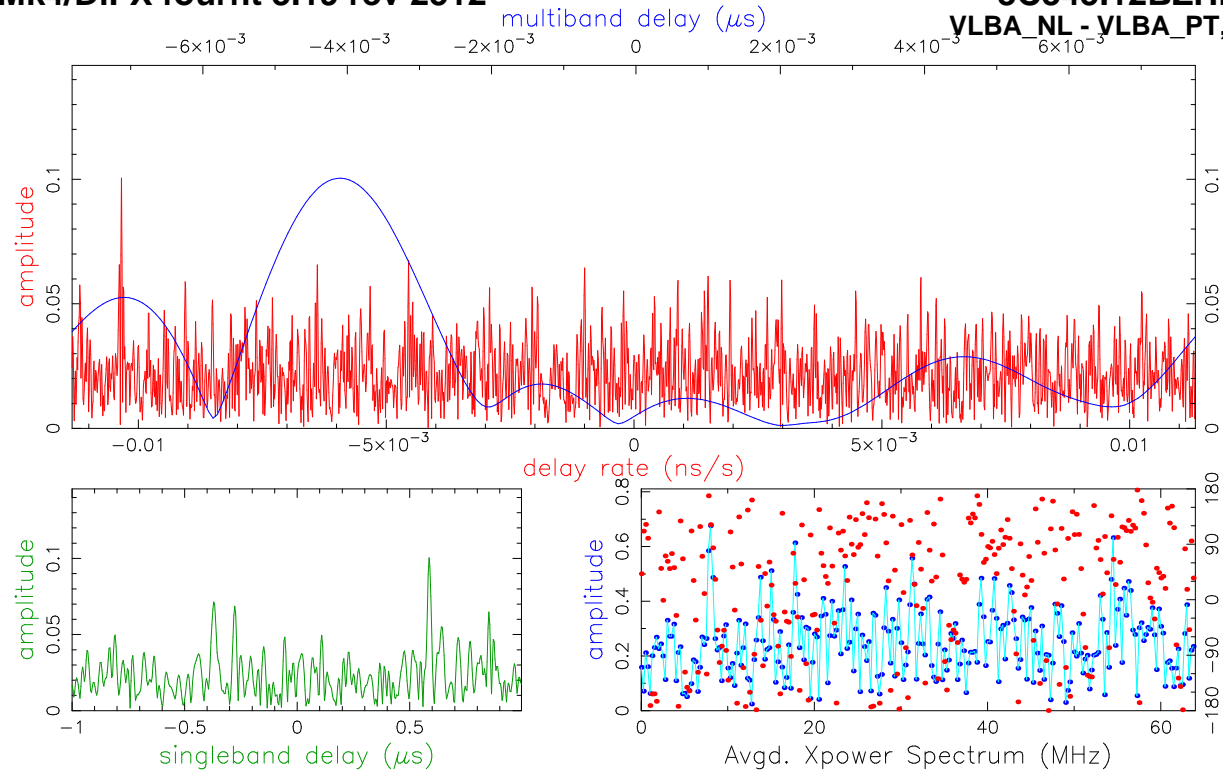


Fringe quality 0
SNR 6.4
Int time 418.424
Amp 0.114
Phase 111.5
PFD 4.5e-02
Delays (us)
SBD 0.232940
MBD -0.006739
Fringe rate (Hz)
-0.064990
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 000001.00
Stop 000700.84
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175327
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
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)	-1.21408062618E+03								Resid mbdelay (usec)	-6.73865E-03 +/- 1.7E-04
Sband delay (usec)	-1.21407532277E+03								Resid sbdelay (usec)	2.32940E-01 +/- 1.3E-03
Phase delay (usec)	-1.21430825893E+03								Resid phdelay (usec)	3.59417E-06 +/- 5.8E-07
Delay rate (us/s)	-2.13146410130E-01								Resid rate (us/s)	-7.54474E-07 +/- 2.4E-09
Total phase (deg)		-152.7							Resid phase (deg)	111.5 +/- 17.9
	RMS	Theor.	Amplitude	0.114 +/- 0.018					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	51.5	43.0	Search (2048X32)	0.109					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	65.5	75.1	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	29.5	25.4	Inc. seg. avg.	0.108					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	41.0	44.3	Inc. frq. avg.	0.110					Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
n: az 275.0 el 67.4 pa 75.4			p: az 301.1 el 78.0 pa 111.1						u,v (fr/asec) 1613.805 1588.627	simultaneous interpolator

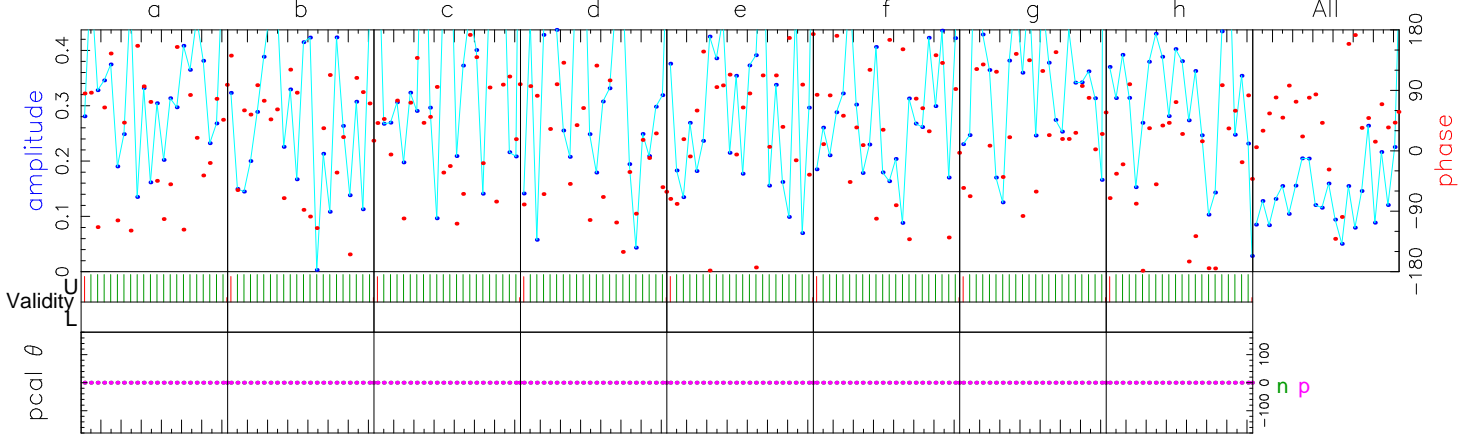


Fringe quality 0

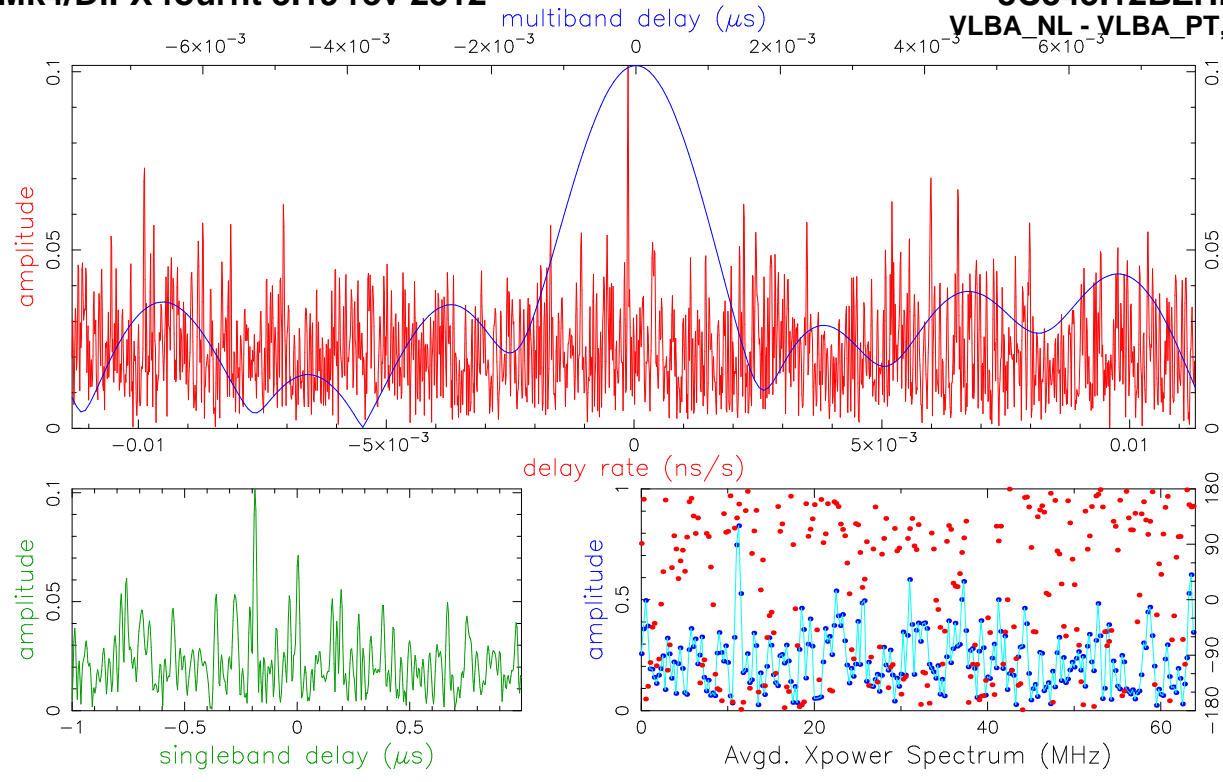
SNR 5.6
Int time 418.424
Amp 0.146
Phase 52.9
PFD 9.9e-01
Delays (us)
SBD 0.586556
MBD -0.004085
Fringe rate (Hz)
-0.891786
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 000001.00
Stop 000700.84
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175330
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0								
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks							
Group delay (usec)(sbd)	-1.21371859774E+03								Apriori delay (usec)	-1.21430826252E+03	Resid mbdelay (usec)	-4.08521E-03	+/-	1.9E-04		
Sband delay (usec)	-1.21372170602E+03								Apriori clock (usec)	1.4568054E+01	Resid sbdelay (usec)	5.86556E-01	+/-	1.5E-03		
Phase delay (usec)	-1.21430826082E+03								Apriori clockrate (us/s)	-6.9663080E-08	Resid phdelay (usec)	1.70640E-06	+/-	6.6E-07		
Delay rate (us/s)	-2.13156008411E-01								Apriori rate (us/s)	-2.13145655657E-01	Resid rate (us/s)	-1.03528E-05	+/-	2.7E-09		
Total phase (deg)			-211.2						Apriori accel (us/s/s)	1.39276635632E-05	Resid phase (deg)	52.9	+/-	20.4		
ph/seg (deg)	66.3	48.8							Amplitude	0.146 +/- 0.026	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	73.3	85.2							Search (2048X32)	0.099	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	23.5	28.8							Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	28.2	50.2							Inc. seg. avg.	0.152	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011		
									Inc. frq. avg.	0.137	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

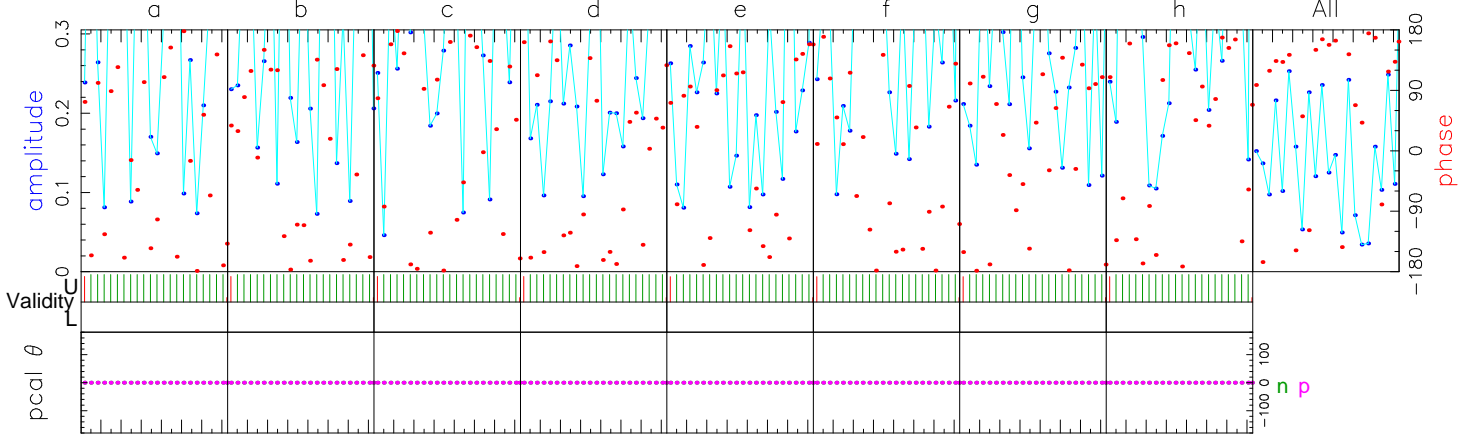


Fringe quality 0

SNR 5.7
Int time 418.424
Amp 0.102
Phase 153.7
PFD 9.5e-01
Delays (us)
SBD -0.187306
MBD 0.000007
Fringe rate (Hz)
-0.010744
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 000001.00
Stop 000700.84
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175333
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

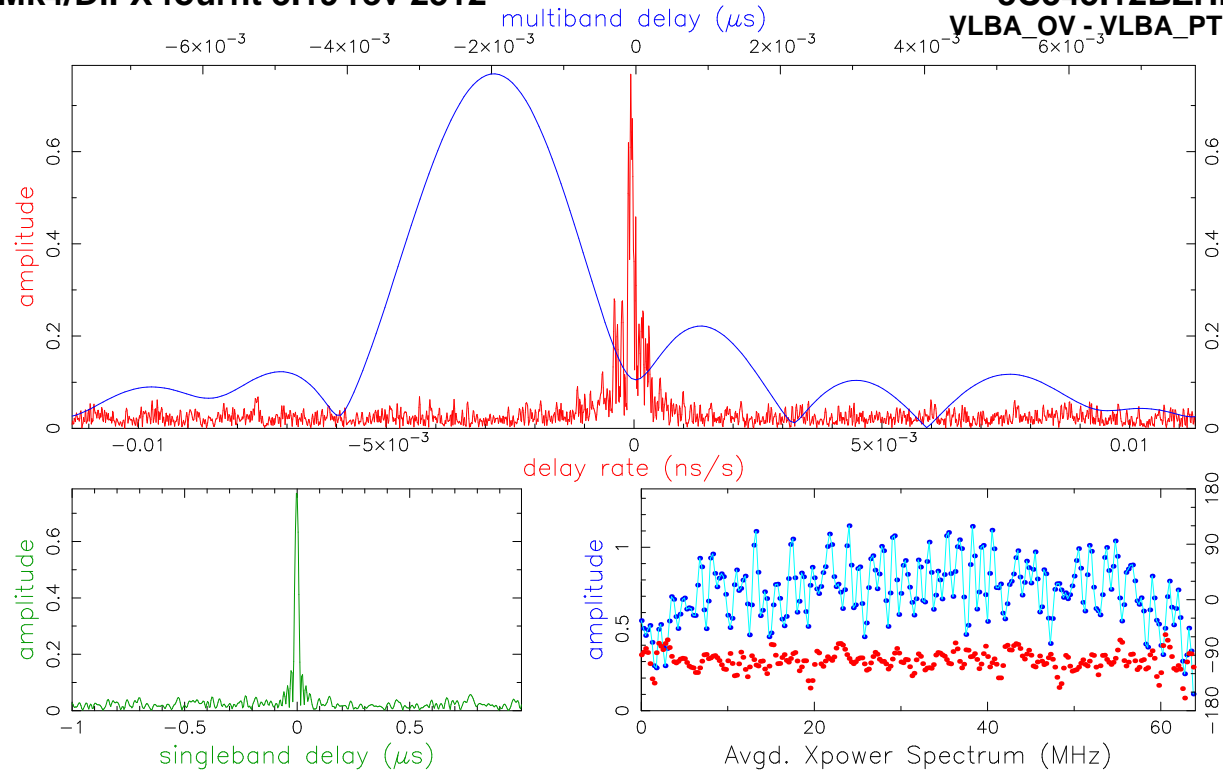
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
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	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.21449575582E+03								6.70667E-06	+/- 1.9E-04
Sband delay (usec)	-1.21449556852E+03								-1.87306E-01	+/- 1.5E-03
Phase delay (usec)	-1.21430825757E+03								4.95525E-06	+/- 6.5E-07
Delay rate (us/s)	-2.13145780386E-01								-1.24730E-07	+/- 2.7E-09
Total phase (deg)			-110.5						153.7	+/- 20.1
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

n: az 275.0 el 67.4 pa 75.4 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) 1613.805 1588.627 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/np..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/np.W.176.12BZHM

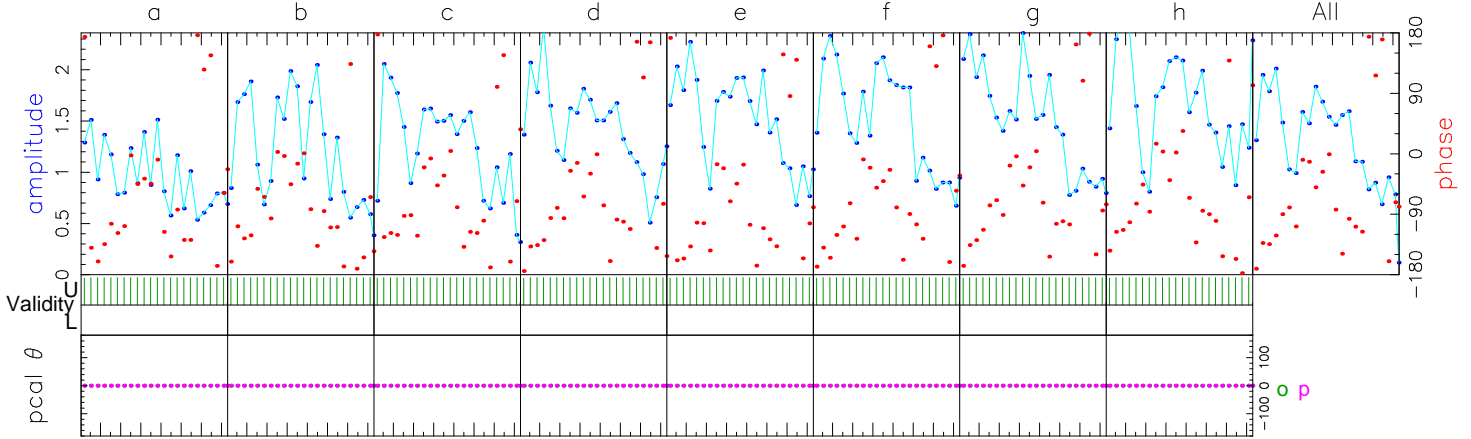


Fringe quality 6

SNR 44.0
 Int time 417.819
 Amp 0.787
 Phase -98.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.002039
 MBD -0.002022
 Fringe rate (Hz)
 -0.005422
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c192a
 Exper # 16383
 Yr:day 2019:277
 Start 000002.54
 Stop 000700.84
 FRT 000331.00
 Corr/FF/build
 2020:072:202201
 2020:086:175325
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

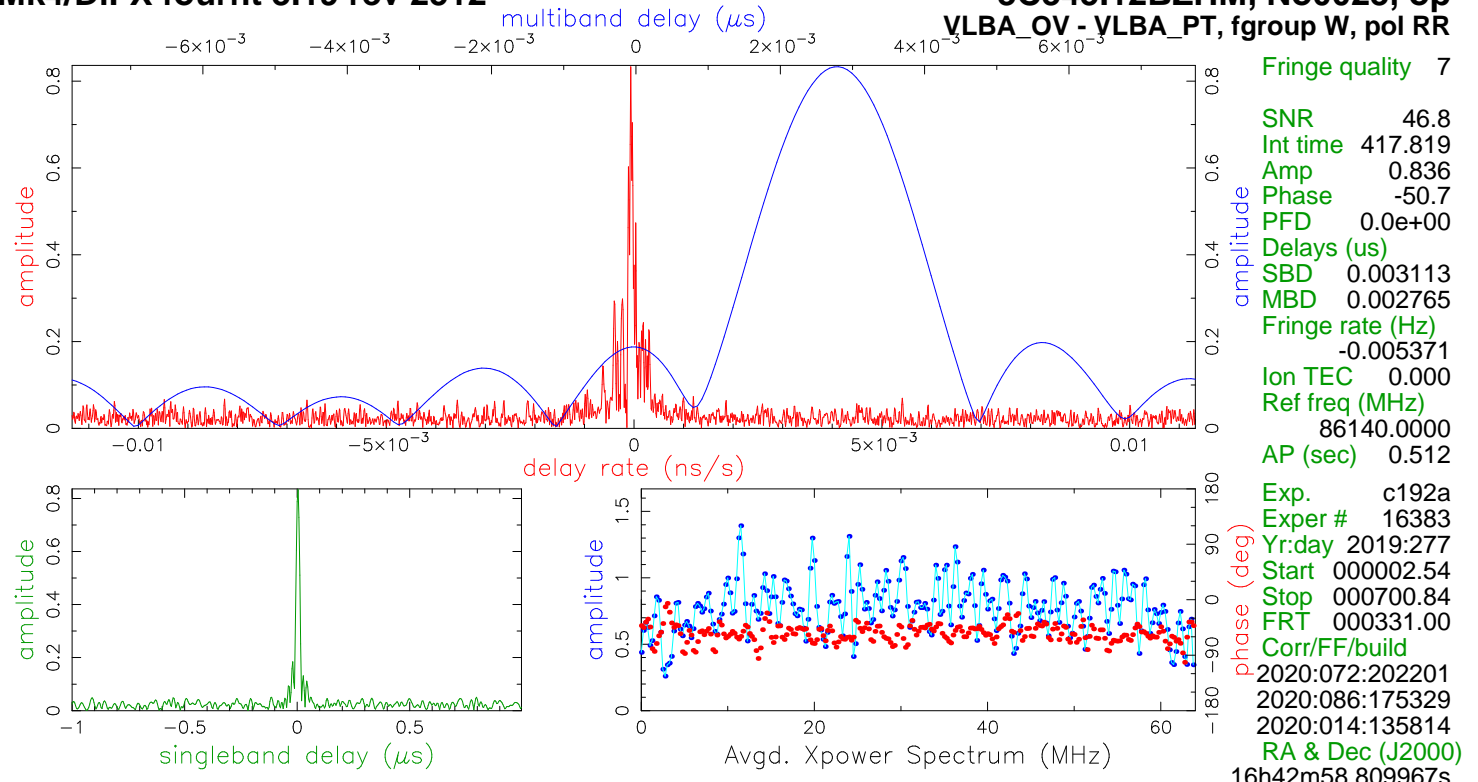


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-108.6	-87.1	-97.3	-100.2	-116.7	-103.1	-94.6	-83.3	Phase	-98.5
	0.5	0.7	0.7	0.9	0.8	0.9	0.9	0.9	Ampl.	0.8
	256.4	256.2	256.7	256.4	256.3	256.5	256.8	256.8	Sbd box	256.5
U/L	817/0	817/0	817/0	817/0	817/0	817/0	817/0	817/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	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)	4.59758903108E+02		Apriori delay (usec)		4.59760924939E+02		Resid mbdelay (usec)		-2.02183E-03	+/- 2.5E-05
Sband delay (usec)	4.59758886439E+02		Apriori clock (usec)		4.7198563E+00		Resid sbdelay (usec)		-2.03850E-03	+/- 2.0E-04
Phase delay (usec)	4.59760921763E+02		Apriori clockrate (us/s)		-2.0290559E-07		Resid phdelay (usec)		-3.17602E-06	+/- 8.4E-08
Delay rate (us/s)	1.74953086291E-01		Apriori rate (us/s)		1.74953149236E-01		Resid rate (us/s)		-6.29447E-08	+/- 3.5E-10
Total phase (deg)			Apriori accel (us/s/s)		5.67556256165E-07		Resid phase (deg)		-98.5	+/- 2.6

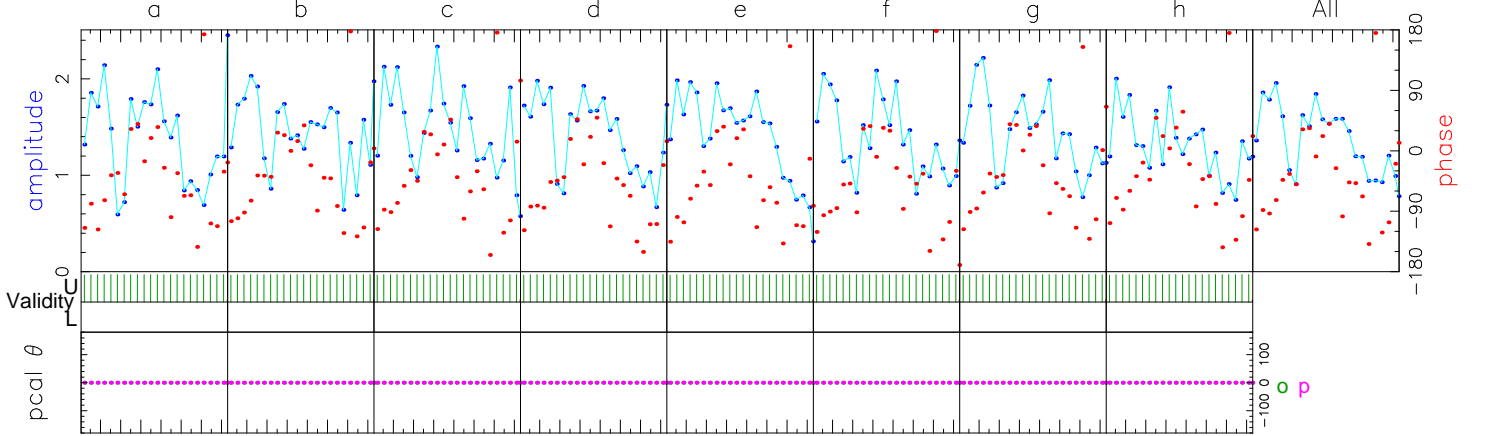
	RMS	Theor.	Amplitude	0.787 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	62.4	6.2	Search (2048X32)	0.750	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	86.9	10.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	11.8	3.7	Inc. seg. avg.	1.337	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	15.1	6.4	Inc. frq. avg.	0.779	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

o: az 316.4 el 86.4 pa 129.9 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) -1301.981 334.784 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/op..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/op.W.164.12BZHM

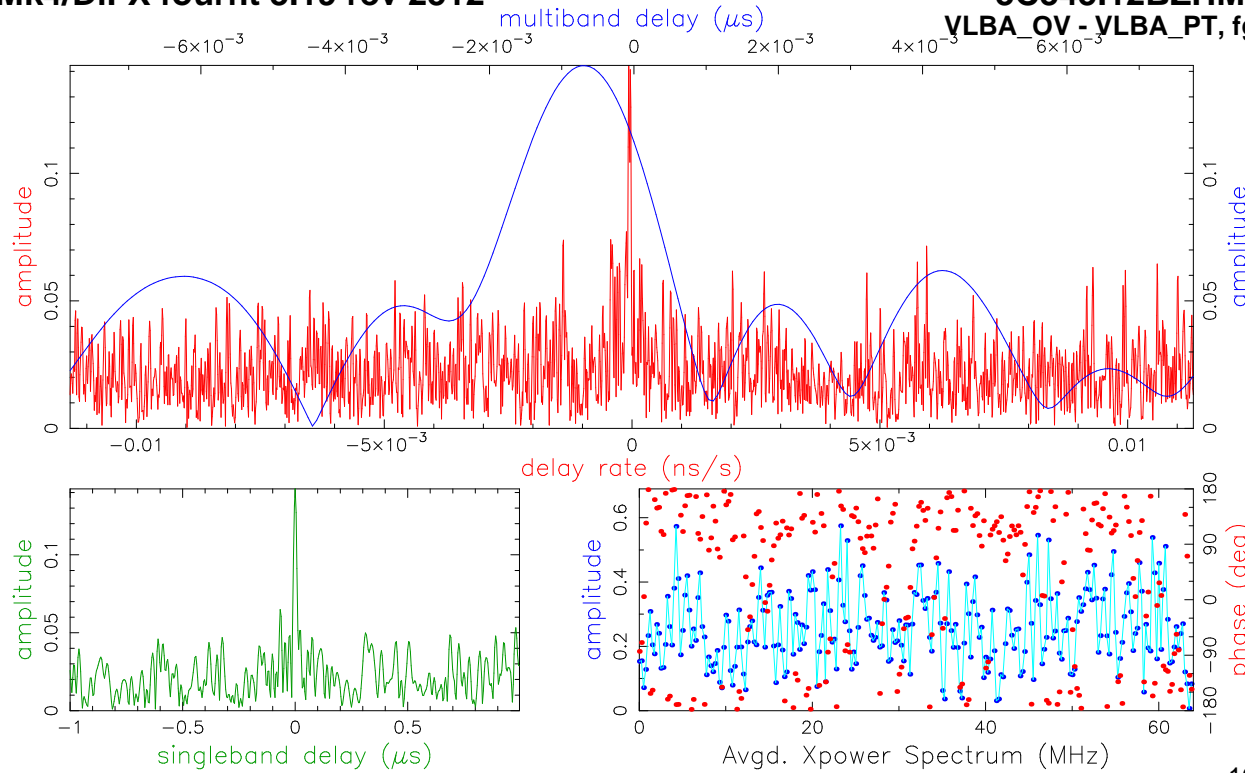


Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-47.8	-50.8	-54.6	-50.0	-56.6	-53.9	-47.3	-44.4	Phase	-50.7
	0.8	0.9	0.9	0.9	0.8	0.8	0.9	0.8	Ampl.	0.8
	257.4	257.9	257.9	257.6	257.7	257.9	257.7	258.4	Sbd box	257.8
U/L	817/0	817/0	817/0	817/0	817/0	817/0	817/0	817/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	4.59763689514E+02		Apriori delay (usec)		4.59760924939E+02		Resid mbdelay (usec)		2.76458E-03	+/- 2.3E-05
Sband delay (usec)	4.59764037939E+02		Apriori clock (usec)		4.7198563E+00		Resid sbdelay (usec)		3.11300E-03	+/- 1.8E-04
Phase delay (usec)	4.59760923303E+02		Apriori clockrate (us/s)		-2.0290559E-07		Resid phdelay (usec)		-1.63537E-06	+/- 7.9E-08
Delay rate (us/s)	1.74953086882E-01		Apriori rate (us/s)		1.74953149236E-01		Resid rate (us/s)		-6.23545E-08	+/- 3.3E-10
Total phase (deg)			Apriori accel (us/s/s)		5.67556256165E-07		Resid phase (deg)		-50.7	+/- 2.5

RMS Theor. Amplitude 0.836 +/- 0.018
 ph/seg (deg) 58.6 5.9 Search (2048X32) 0.799 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 77.3 10.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 4.5 3.5 Inc. seg. avg. 1.385 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 5.2 6.1 Inc. frq. avg. 0.834 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 o: az 316.4 el 86.4 pa 129.9 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) -1301.981 334.784 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/op..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/op.W.169.12BZHM

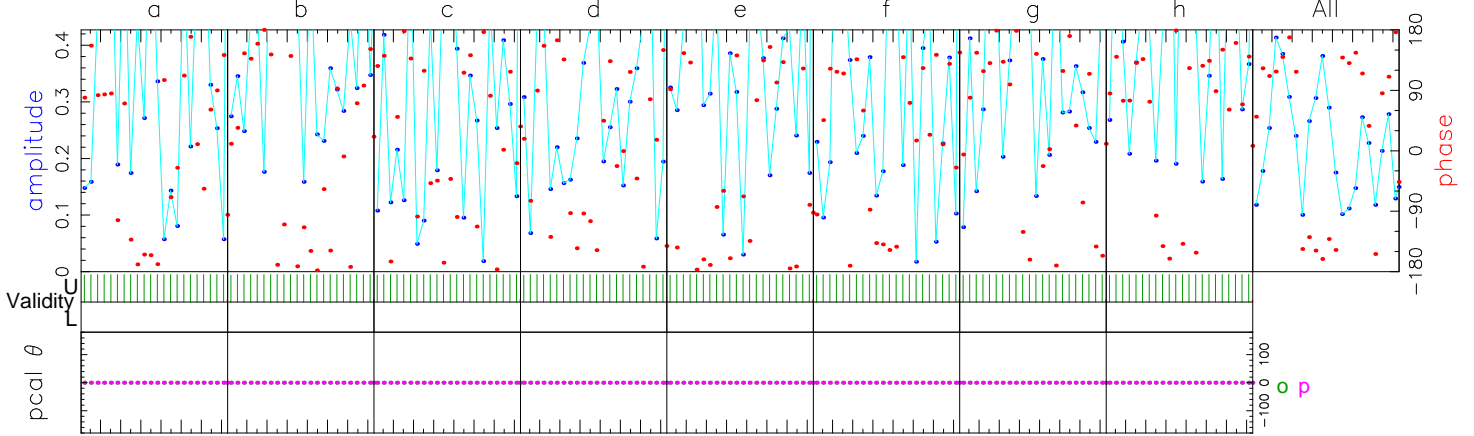


Fringe quality 9

SNR 8.0
Int time 417.819
Amp 0.142
Phase 150.6
PFD 5.9e-07
Delays (us)
SBD -0.000341
MBD -0.000697
Fringe rate (Hz)
-0.005516
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

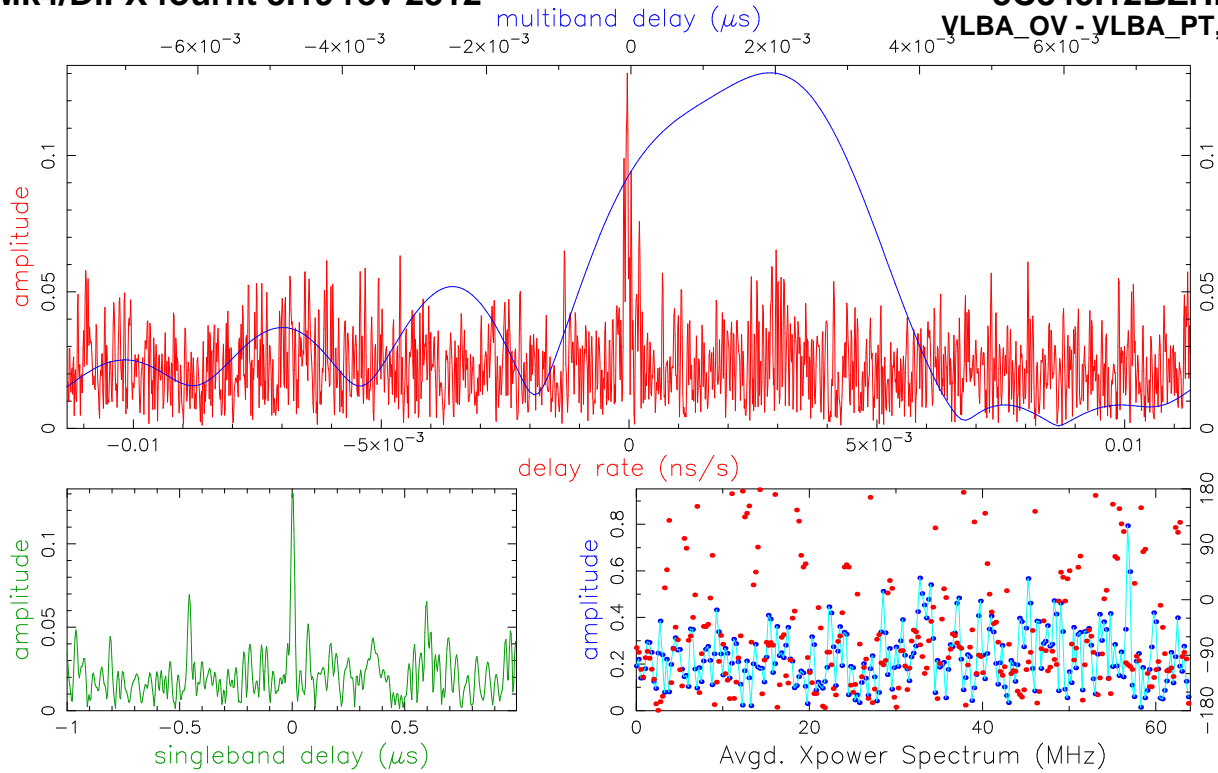
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 000002.54
Stop 000700.84
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175332
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



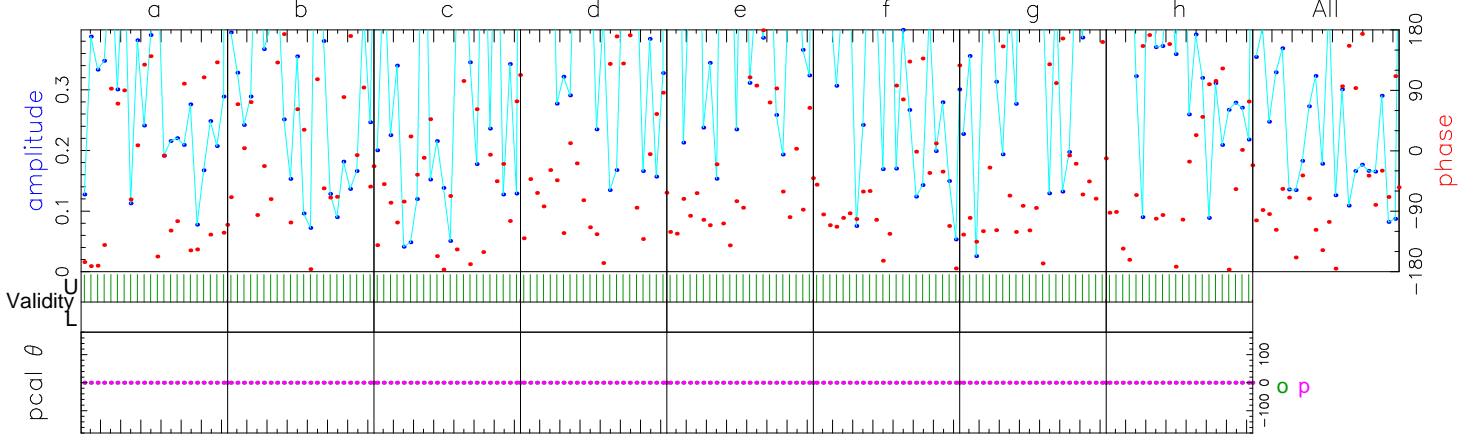
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	112.9	160.2	160.0	168.0	163.0	139.0	161.7	139.4	Phase	150.6
o	0.1	0.2	0.0	0.1	0.2	0.1	0.2	0.3	Ampl.	0.1
p	365.7	174.4	102.5	167.3	256.7	396.7	256.9	257.0	Sbd box	256.9
o	817/0	817/0	817/0	817/0	817/0	817/0	817/0	817/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	4.59760227608E+02		Apriori delay (usec)		4.59760924939E+02		Resid mbdelay (usec)		-6.97331E-04	+/- 1.4E-04
Sband delay (usec)	4.59760583939E+02		Apriori clock (usec)		4.7198563E+00		Resid sbdelay (usec)		-3.41000E-04	+/- 1.1E-03
Phase delay (usec)	4.59760929795E+02		Apriori clockrate (us/s)		-2.0290559E-07		Resid phdelay (usec)		4.85631E-06	+/- 4.6E-07
Delay rate (us/s)	1.74953085204E-01		Apriori rate (us/s)		1.74953149236E-01		Resid rate (us/s)		-6.40323E-08	+/- 1.9E-09
Total phase (deg)	177.3		Apriori accel (us/s/s)		5.67556256165E-07		Resid phase (deg)		150.6	+/- 14.4

ph/seg (deg) 55.4 34.5 Search (2048X32) 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 89.5 60.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 20.2 20.4 Inc. seg. avg. 0.193 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 53.8 35.5 Inc. frq. avg. 0.139 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
o: az 316.4 el 86.4 pa 129.9 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) -1301.981 334.784 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/op..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/op.W.174.12BZHM



Fringe quality 9
SNR 7.4
Int time 417.819
Amp 0.133
Phase -96.0
PFD 3.4e-05
Delays (us)
SBD 0.001972
MBD 0.001840
Fringe rate (Hz)
-0.003178
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 000002.54
Stop 000700.84
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175335
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

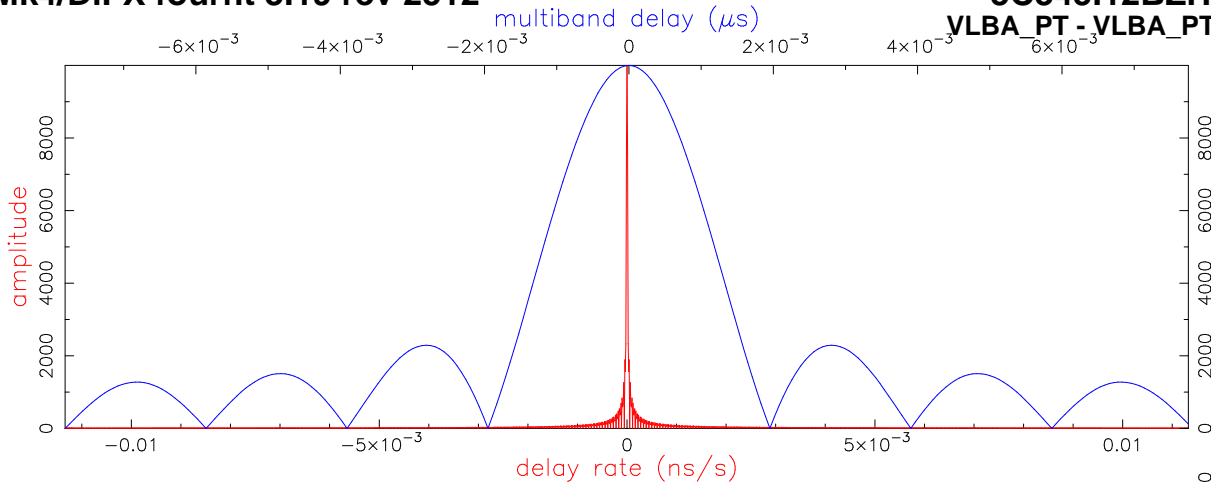


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
168.8	22.6	-81.7	-76.1	-97.0	-87.3	-88.4	-129.3	-129.3	Phase	-96.0
0.1	0.0	0.1	0.2	0.2	0.2	0.2	0.1	0.1	Ampl.	0.1
62.3	114.7	494.1	257.2	257.6	275.6	257.7	499.4	499.4	Sbd box	257.5
U/L 817/0	817/0	817/0	817/0	817/0	817/0	817/0	817/0	817/0	APs used	
o 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
o:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000	1000		
o	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)	4.59762765367E+02		Apriori delay (usec)	4.59760924939E+02		Resid mbdelay (usec)	1.84043E-03	+/-	1.5E-04	
Sband delay (usec)	4.59762896689E+02		Apriori clock (usec)	4.7198563E+00		Resid sbdelay (usec)	1.97175E-03	+/-	1.2E-03	
Phase delay (usec)	4.59760921841E+02		Apriori clockrate (us/s)	-2.0290559E-07		Resid phdelay (usec)	-3.09729E-06	+/-	5.0E-07	
Delay rate (us/s)	1.74953112341E-01		Apriori rate (us/s)	1.74953149236E-01		Resid rate (us/s)	-3.68946E-08	+/-	2.1E-09	
Total phase (deg)		-69.3	Apriori accel (us/s/s)	5.67556256165E-07		Resid phase (deg)	-96.0	+/-	15.4	

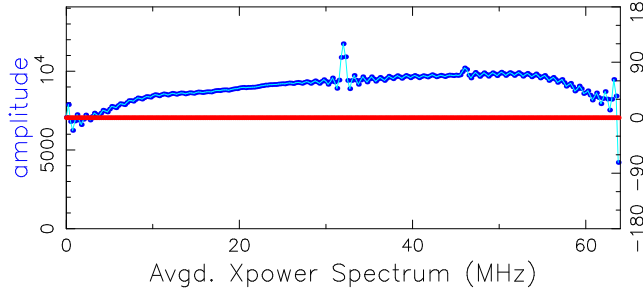
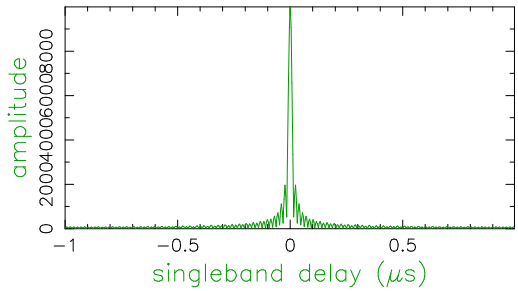
ph/seg (deg) RMS Theor. Amplitude 0.133 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 76.7 37.0 Search (2048X32) 0.129 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 108.7 64.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 64.5 21.8 Inc. seg. avg. 0.190 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 54.7 38.1 Inc. frq. avg. 0.147 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

o: az 316.4 el 86.4 pa 129.9 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) -1301.981 334.784 simultaneous interpolator

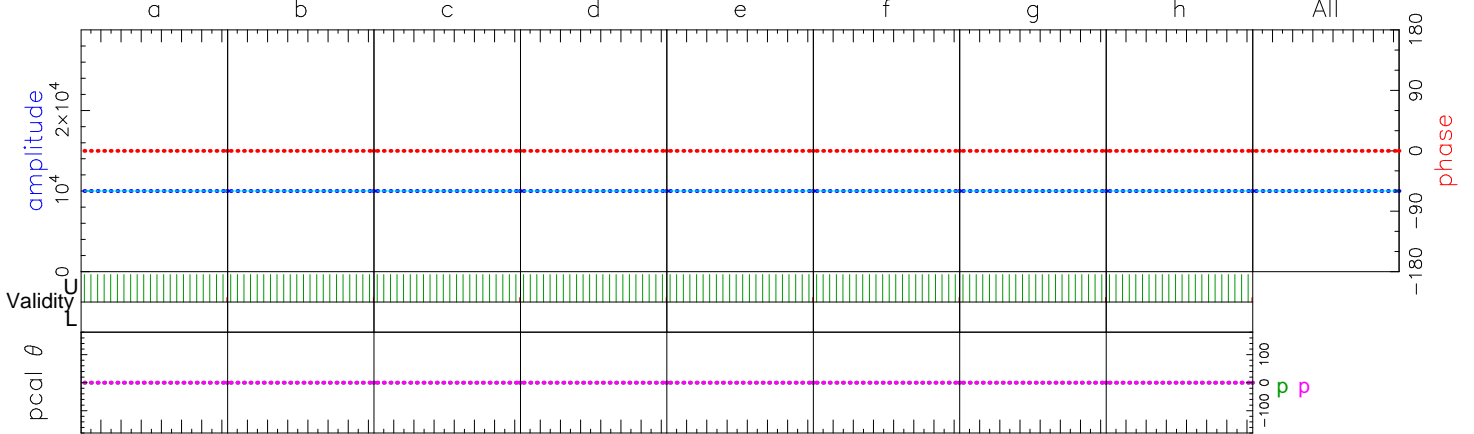
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/op..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/op.W.178.12BZHM



Fringe quality 9
 SNR 560310.4
 Int time 419.819
 Amp 9999.999
 Phase -0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz) 0.000000
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c192a
 Exper # 16383
 Yr:day 2019:277
 Start 000001.00
 Stop 000700.84
 FRT 000331.00
 Corr/FF/build
 2020:072:202201
 2020:086:175325
 2020:014:135814
 RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

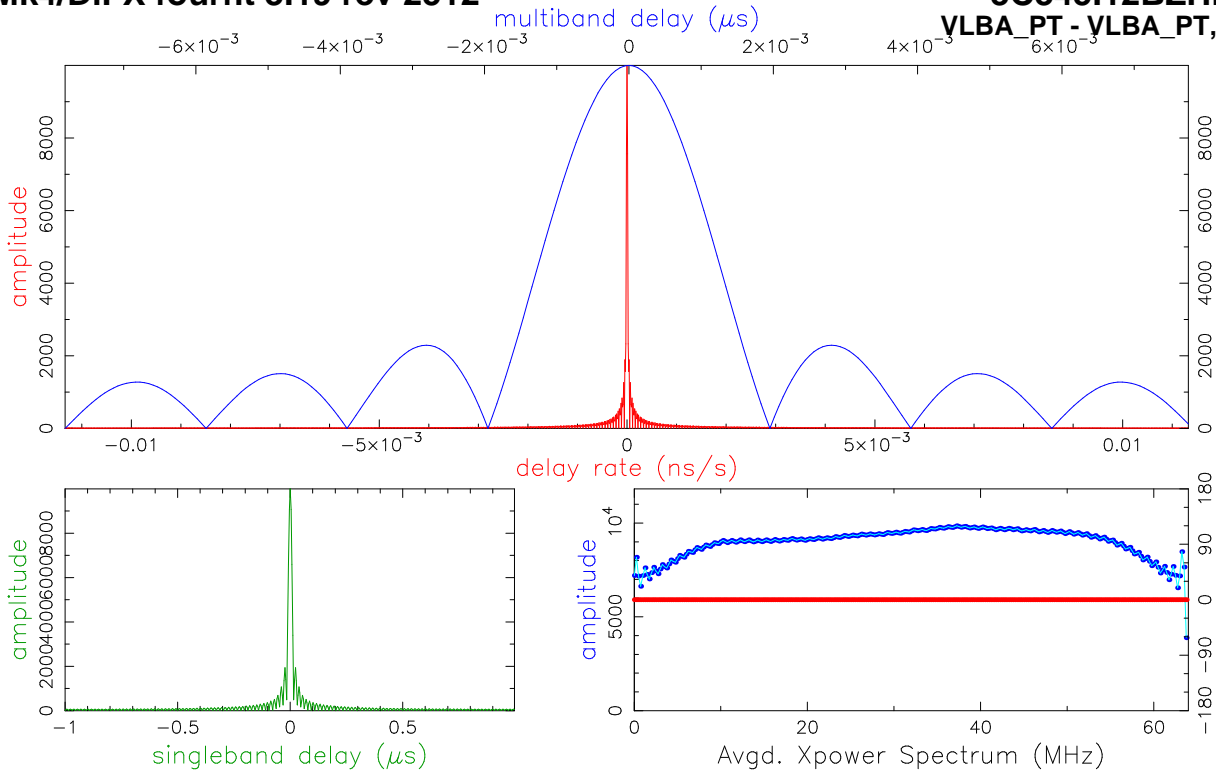


Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	10000.0	10000.0	
p	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	10000.0	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	257.0	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used		
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC phase		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Mani PC		
									PC amp		
									Chan ids		
									Tracks		
									Tracks		
Group delay (usec)(sbd)	0.00000000000E+00	0.00000000000E+00	0.00000000000E+00	0.00000000000E+00	0.00000000000E+00	0.00000000000E+00	0.00000000000E+00	0.00000000000E+00	Apriori delay (usec)	0.00000000000E+00	+/- 1.9E-09
Sband delay (usec)	0.00000000000E+00	0.00000000000E+00	0.00000000000E+00	0.00000000000E+00	0.00000000000E+00	0.00000000000E+00	0.00000000000E+00	0.00000000000E+00	Apriori clock (usec)	0.00000000000E+00	+/- 1.5E-08
Phase delay (usec)	-8.49957451423E-21	-8.49957451423E-21	-8.49957451423E-21	-8.49957451423E-21	-8.49957451423E-21	-8.49957451423E-21	-8.49957451423E-21	-8.49957451423E-21	Apriori clockrate (us/s)	0.00000000000E+00	+/- 6.6E-12
Delay rate (us/s)	0.00000000000E+00	0.00000000000E+00	0.00000000000E+00	0.00000000000E+00	0.00000000000E+00	0.00000000000E+00	0.00000000000E+00	0.00000000000E+00	Apriori rate (us/s)	0.00000000000E+00	+/- 2.7E-14
Total phase (deg)			-0.0						Apriori accel (us/s/s)	0.00000000000E+00	+/- 0.0

ph/seg (deg) 0.0 0.0 Theor. Amplitude 9999.999 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 p: az 301.1 el 78.0 pa 111.1 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/pp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/pp.W.163.12BZHM

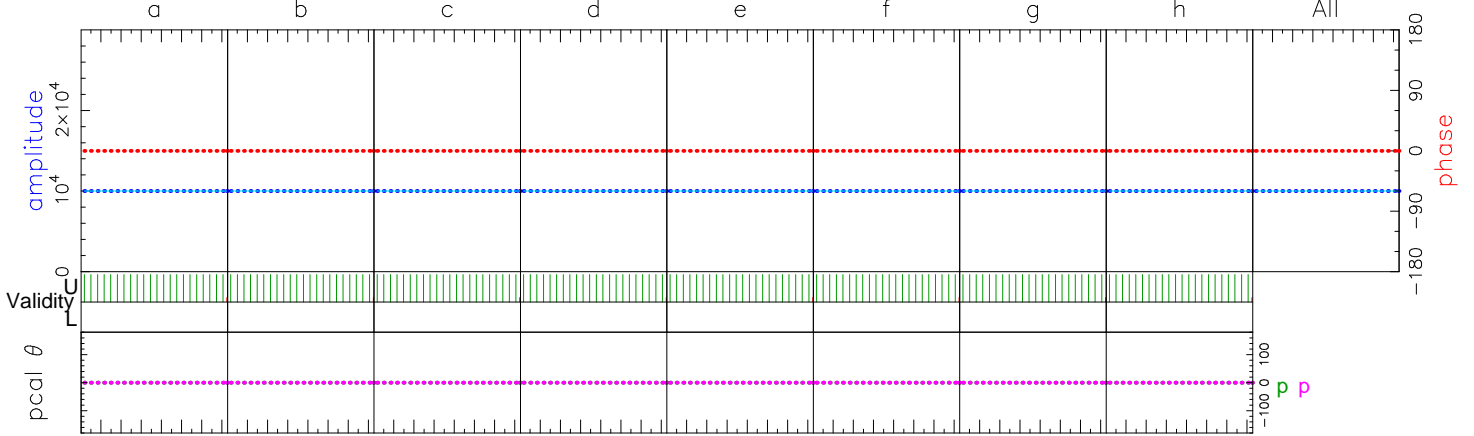


Fringe quality 9

SNR 560310.4
Int time 419.819
Amp 9999.999
Phase -0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

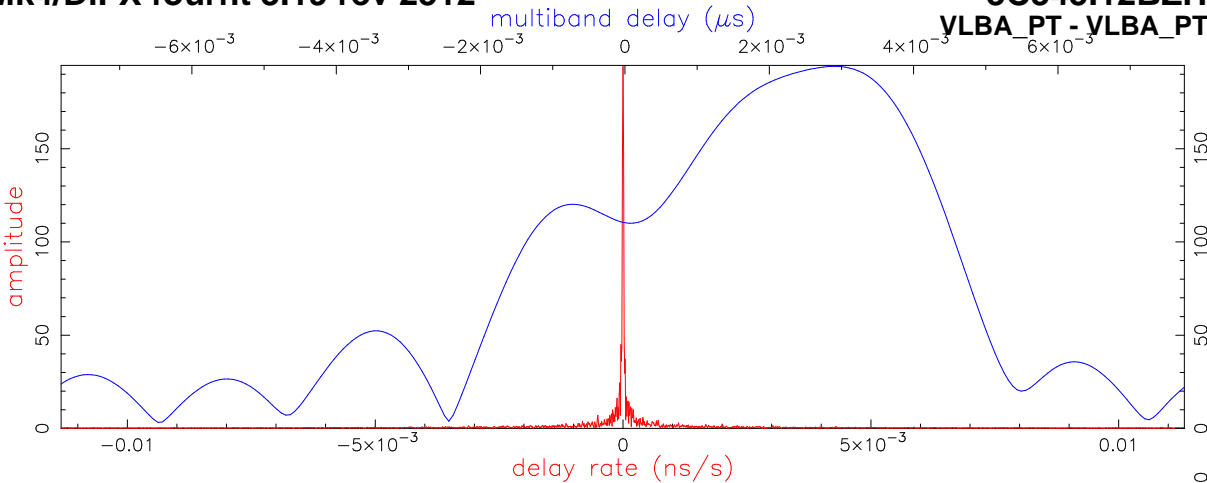
Exp. c192a
Yr:day 16383
Yr:day 2019:277
Start 000001.00
Stop 000700.84
FRT 000331.00
Corr/FF/build
2020:072:202201
2020:086:175328
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



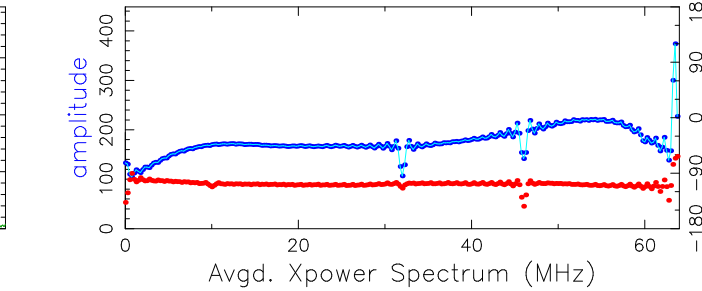
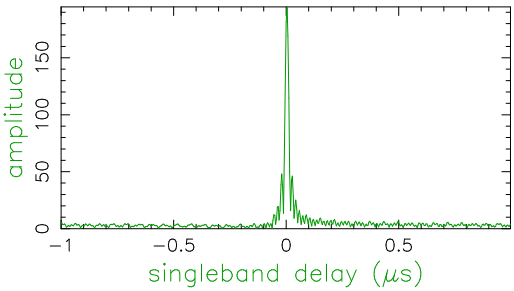
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	10000.0	10000.0
p	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.0	0.0
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.0	0.0
p	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
p	1000	1000	1000	1000	1000	1000	1000	1000	10000.0	10000.0
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	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	0.00000E+00	+/- 1.9E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 1.5E-08
Phase delay (usec)	-3.78467476800E-20	-3.78467476800E-20	-3.78467476800E-20	-3.78467476800E-20	-3.78467476800E-20	-3.78467476800E-20	-3.78467476800E-20	-3.78467476800E-20	-3.78467E-20	+/- 6.6E-12
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.00000E+00	+/- 2.7E-14
Total phase (deg)			-0.0						-0.0	+/- 0.0

ph/seg (deg) 0.0 0.0 RMS Theor. Amplitude 9999.999 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 p: az 301.1 el 78.0 pa 111.1 p: az 301.1 el 78.0 pa 111.1 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/No0023/pp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/pp.W.168.12BZHM simultaneous interpolator



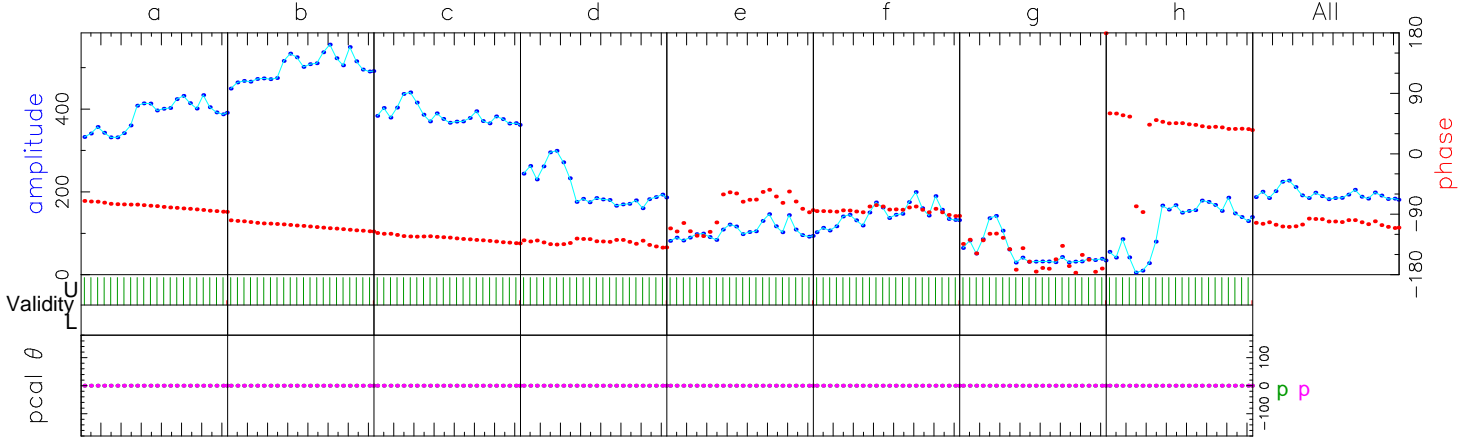
Fringe quality 5

SNR 10911.5
 Int time 419.819
 Amp 194.741
 Phase -103.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.003247
 MBD 0.002853
 Fringe rate (Hz)
 0.000117
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c192a
 Exper # 16383
 Yr:day 2019:277
 Start 000001.00
 Stop 000700.84
 FRT 000331.00
 Corr/FF/build
 2020:072:202201
 2020:086:175331
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

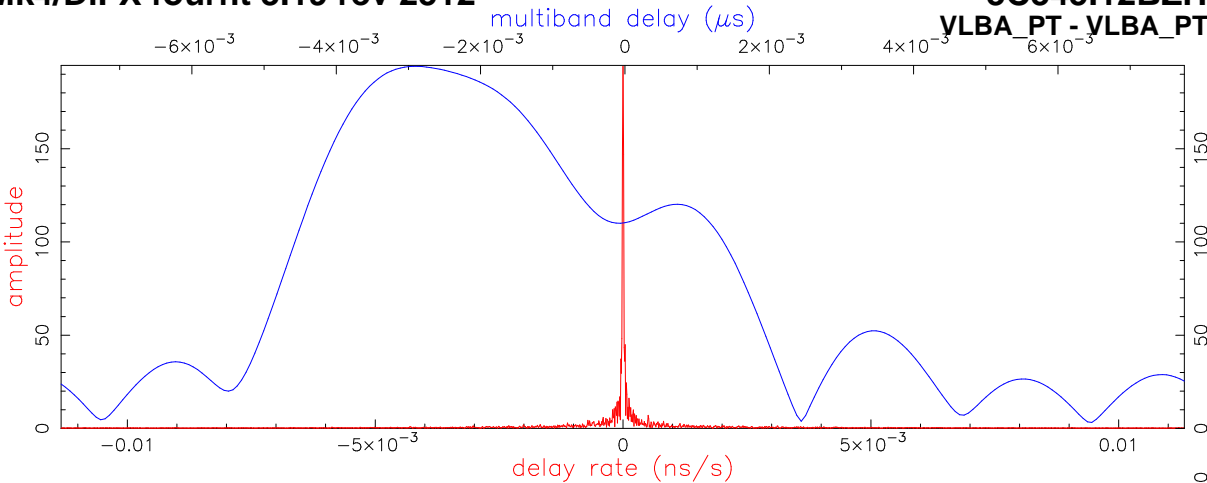


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-78.4	-107.4	-125.3	-131.7	-79.8	-83.6	-141.0	42.8	Phase	-103.2
	383.5	498.7	384.7	208.2	95.7	144.3	51.4	115.8	Ampl.	235.3
	257.6	257.4	257.6	257.6	258.3	257.4	256.2	256.4	Sbd box	257.8
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	2.85321875000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	2.85322E-03	+/-	9.9E-08
Sband delay (usec)	3.24700000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	3.24700E-03	+/-	7.9E-07
Phase delay (usec)	-3.32832519033E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.32833E-06	+/-	3.4E-10
Delay rate (us/s)	1.36113918722E-09	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	1.36114E-09	+/-	1.4E-12
Total phase (deg)	-103.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-103.2	+/-	0.0

ph/seg (deg)	4.1	0.0	Search (2048X32)	193.353	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	6.5	0.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	65.3	0.0	Inc. seg. avg.	194.687	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	81.9	0.0	Inc. frq. avg.	235.292	Data rate(Mb/s): 2048	nlags: 256	ion window (TEC)	0.00	0.00

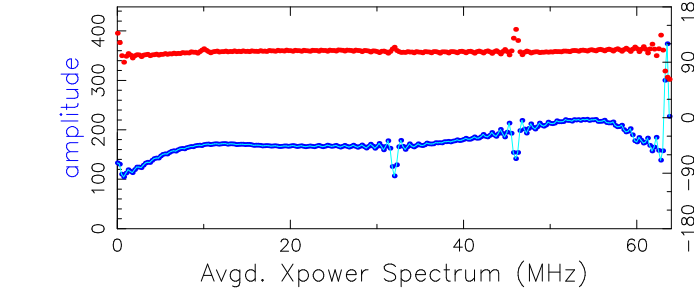
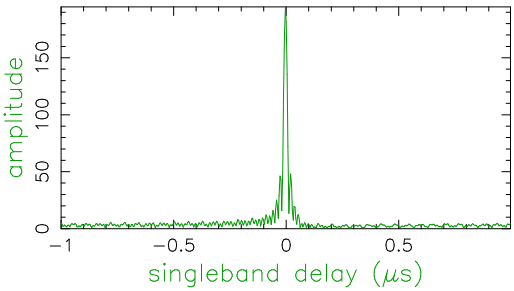
p: az 301.1 el 78.0 pa 111.1 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/pp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/pp.W.173.12BZHM



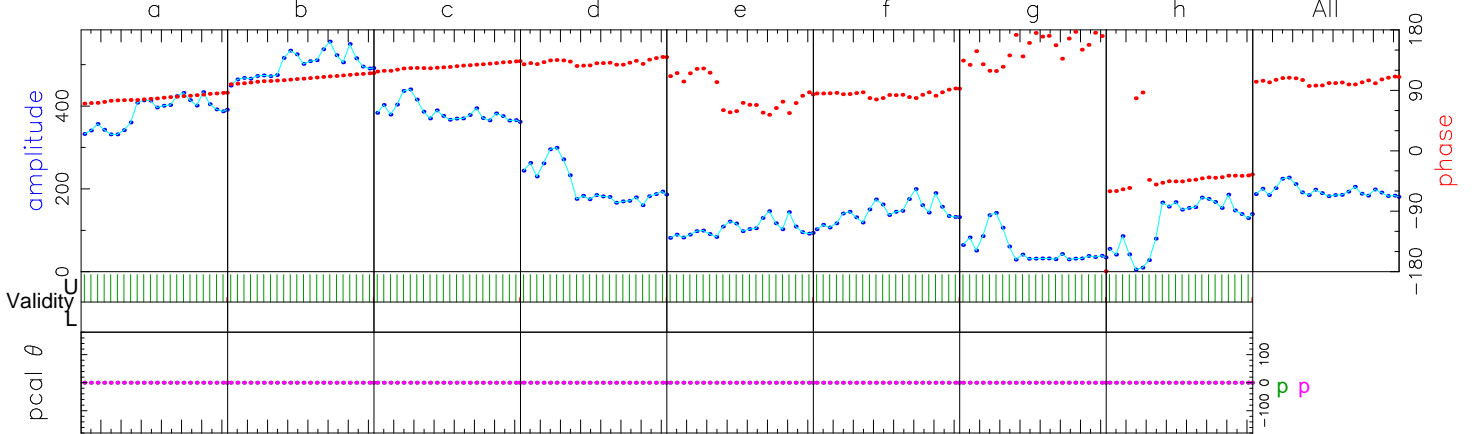
Fringe quality 5

SNR 10911.5
 Int time 419.819
 Amp 194.741
 Phase 103.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.003247
 MBD -0.002853
 Fringe rate (Hz)
 -0.000117
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c192a
 Yr:day 16383
 Start 2020:072:202201
 Stop 2020:086:175335
 FRT 2020:014:135814
 Corr/FF/build
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"



Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 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	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
p	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
p:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
p	1000	1000	1000	1000	1000	1000	1000	1000	ManI PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-2.85321875000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-2.85322E-03	+/-	9.9E-08
Sband delay (usec)	-3.24700000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-3.24700E-03	+/-	7.9E-07
Phase delay (usec)	3.32832519026E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.32833E-06	+/-	3.4E-10
Delay rate (us/s)	-1.36113918722E-09	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-1.36114E-09	+/-	1.4E-12
Total phase (deg)	103.2	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	103.2	+/-	0.0

ph/seg (deg)	4.1	0.0	Search (2048X32)	193.353	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	6.5	0.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	65.3	0.0	Inc. seg. avg.	194.687	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	81.9	0.0	Inc. frq. avg.	235.292	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

p: az 301.1 el 78.0 pa 111.1 p: az 301.1 el 78.0 pa 111.1 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0023/pp..12BZHM Output file: /Exps/c192a/v1_PV/1234/No0023/pp.W.177.12BZHM