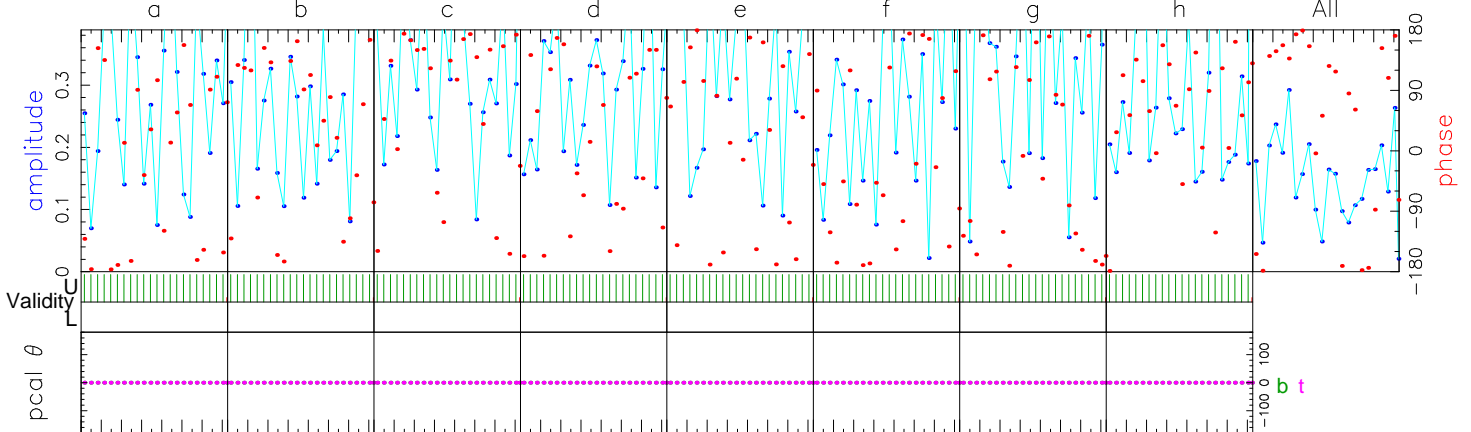


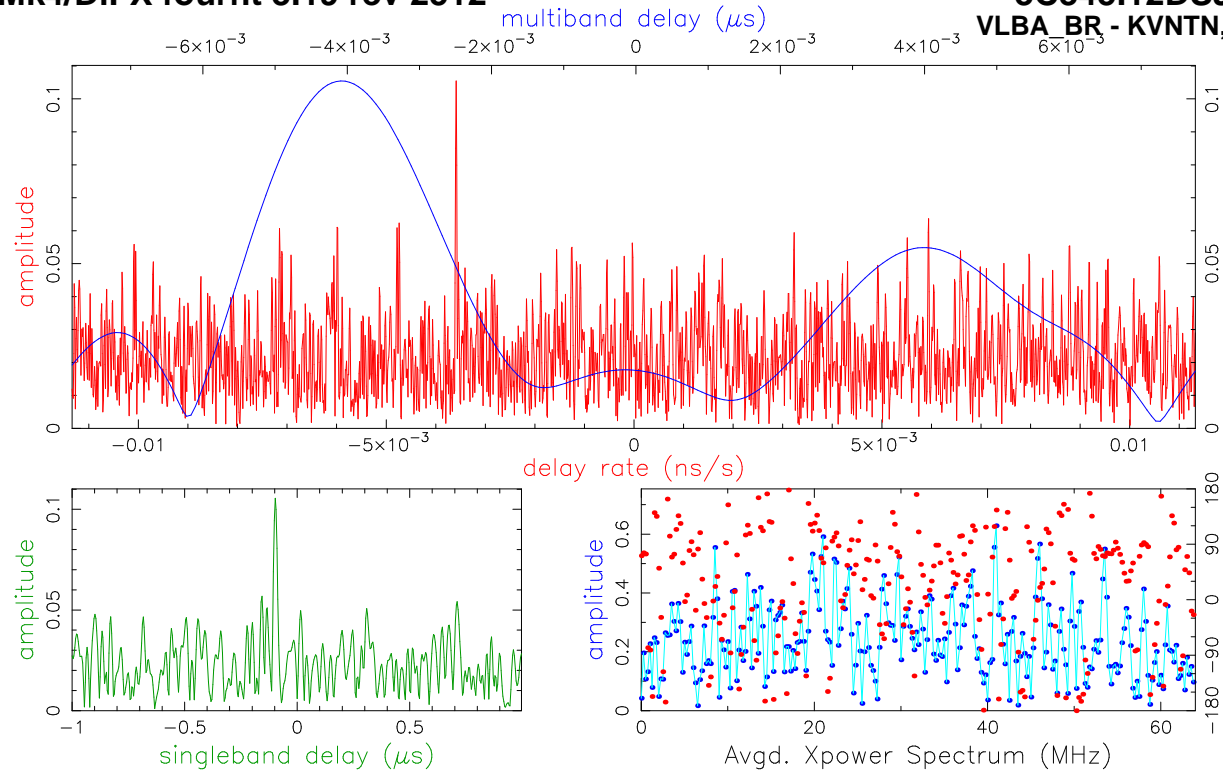
Fringe quality 0
SNR 6.3
Int time 419.803
Amp 0.130
Phase 154.5
PFD 7.1e-02
Delays (us)
SBD -0.644130
MBD -0.004012
Fringe rate (Hz)
-0.561925
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183353
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		
t	1000	1000	1000	1000	1000	1000	1000	1000		
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-9.89185781506E+02									
Sband delay (usec)	-9.89185275027E+02									
Phase delay (usec)	-9.88541139796E+02									
Delay rate (us/s)	-1.48488691324E+00									
Total phase (deg)			78.5							
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)										
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										
ion window (TEC)										
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

ph/seg (deg) 59.4 43.5 Search (2048X32) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 67.8 76.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 34.9 25.7 Inc. seg. avg. 0.138 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 38.3 44.8 Inc. frq. avg. 0.133 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
b: az 283.1 el 45.8 pa 57.8 t: az 65.6 el 48.4 pa -81.7 u,v (fr/asec) 11100.339 2457.355 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/bt..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/bt.W.30.12DSJB simultaneous interpolator

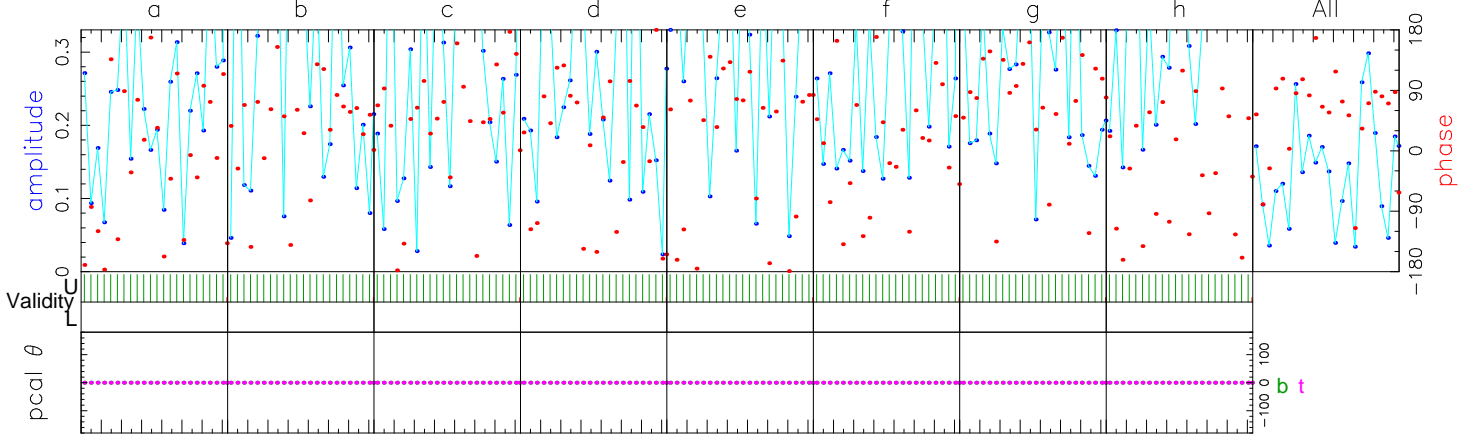


Fringe quality 0

SNR 5.9
Int time 419.802
Amp 0.110
Phase 74.4
PFD 5.6e-01
Delays (us)
SBD -0.097041
MBD -0.004069
Fringe rate (Hz)
-0.309851
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

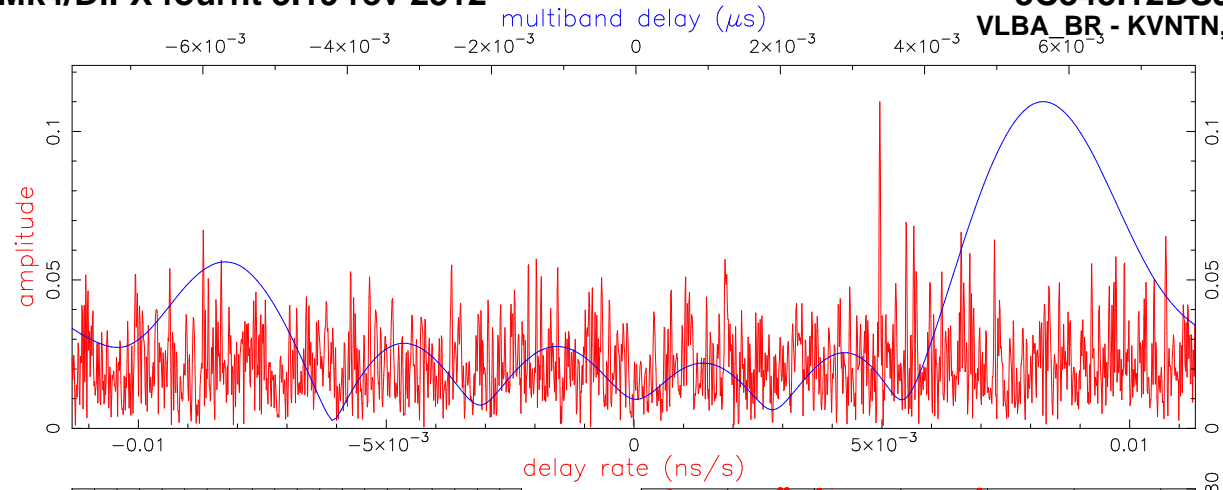
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183358
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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	820/0	232.2
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	
t	1000	1000	1000	1000	1000	1000	1000	1000	1000	
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	
t	1000	1000	1000	1000	1000	1000	1000	1000	1000	
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Chan ids
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks
Group delay (usec)(sbd)	-9.88638963279E+02									
Sband delay (usec)	-9.88638185777E+02									
Phase delay (usec)	-9.88541142378E+02									
Delay rate (us/s)	-1.48488398692E+00									
Total phase (deg)			-1.6							
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)									74.4	+/- 19.4

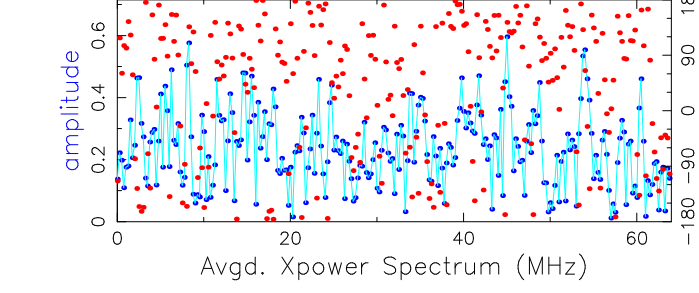
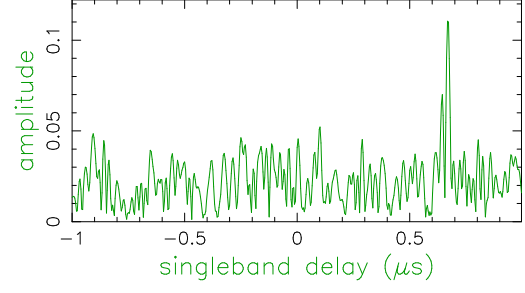
ph/seg (deg) 62.9 46.4 Search (2048X32) 0.105 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.9 81.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 37.8 27.4 Inc. seg. avg. 0.108 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 45.7 47.8 Inc. frq. avg. 0.114 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 283.1 el 45.8 pa 57.8 t: az 65.6 el 48.4 pa -81.7 u,v (fr/asec) 11100.339 2457.355 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/bt..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/bt.W.49.12DSJB



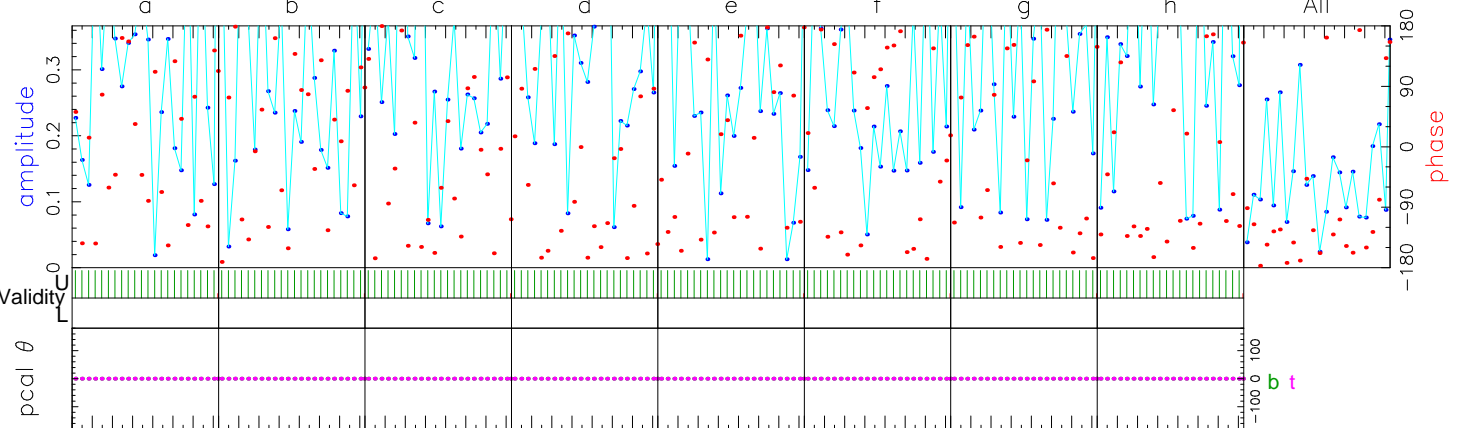
Fringe quality 0

SNR 6.3
Int time 419.803
Amp 0.122
Phase -138.8
PFD 6.8e-02
Delays (us)
SBD 0.669817
MBD 0.005696
Fringe rate (Hz) 0.427771
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183402
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"



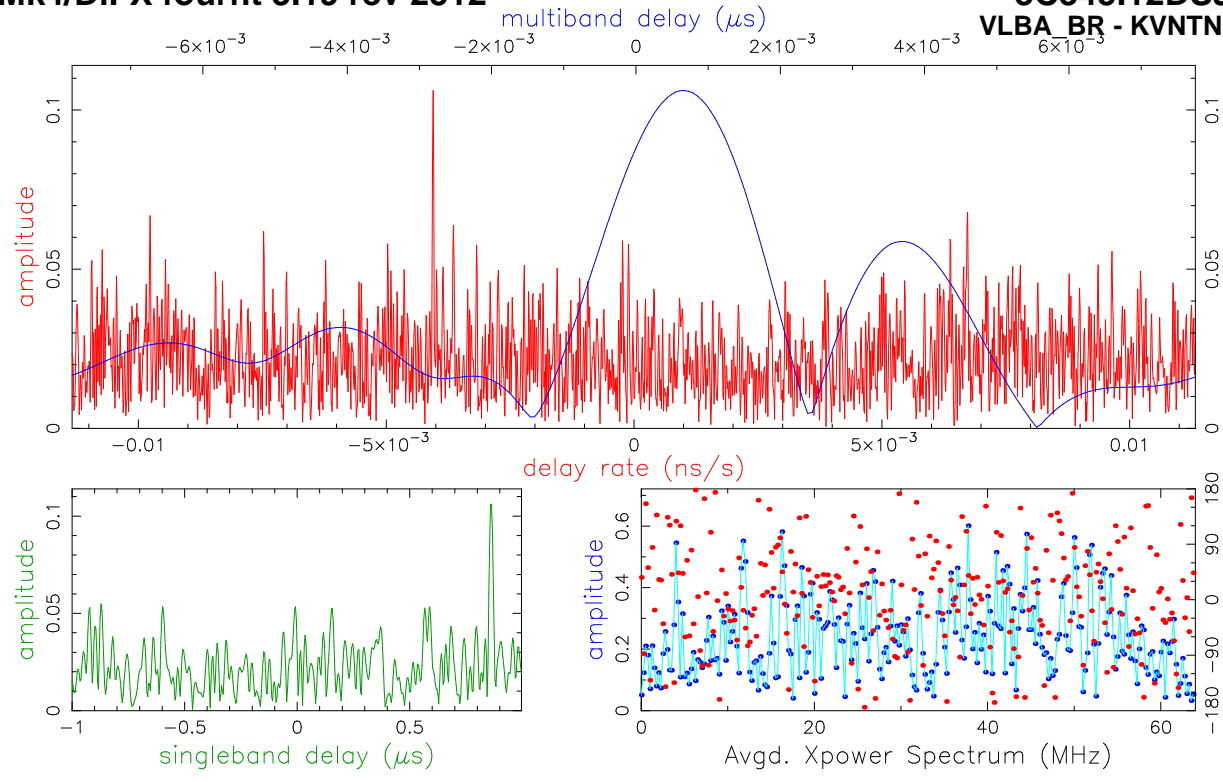
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	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		
t	1000	1000	1000	1000	1000	1000	1000	1000		
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-9.87863574239E+02									
Sband delay (usec)	-9.87871327527E+02									
Phase delay (usec)	-9.88541149251E+02									
Delay rate (us/s)	-1.48487542386E+00									
Total phase (deg)			-214.7							
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										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

b: az 283.1 el 45.8 pa 57.8 t: az 65.6 el 48.4 pa -81.7 u,v (fr/asec) 11100.339 2457.355

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/bt..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/bt.W.68.12DSJB

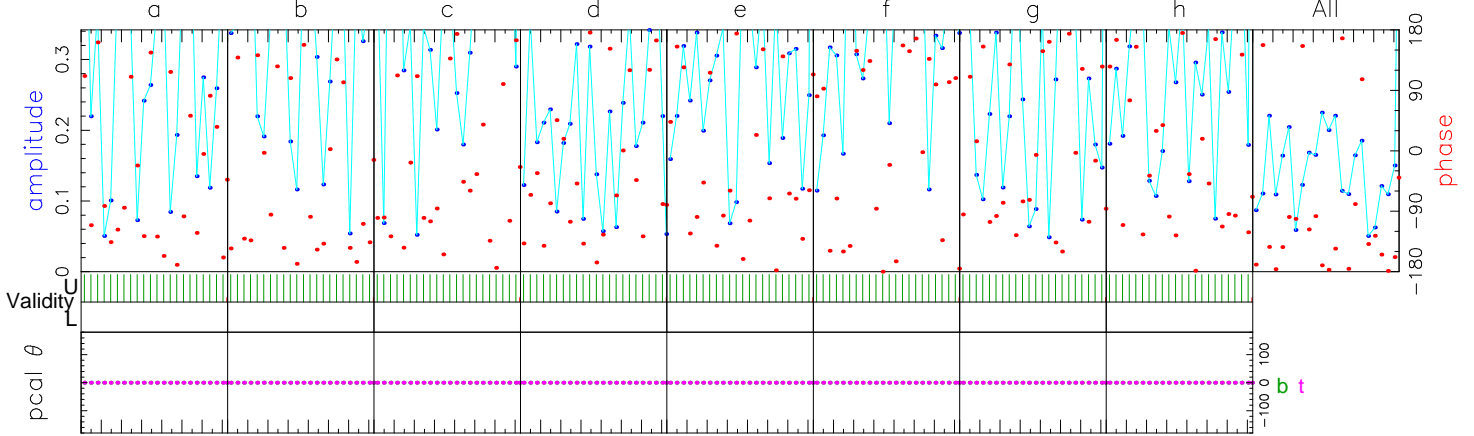


Fringe quality 0

SNR 6.1
Int time 419.802
Amp 0.114
Phase -151.3
PFD 3.0e-01
Delays (us)
SBD 0.861345
MBD 0.000658
Fringe rate (Hz)
-0.349889
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183349
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

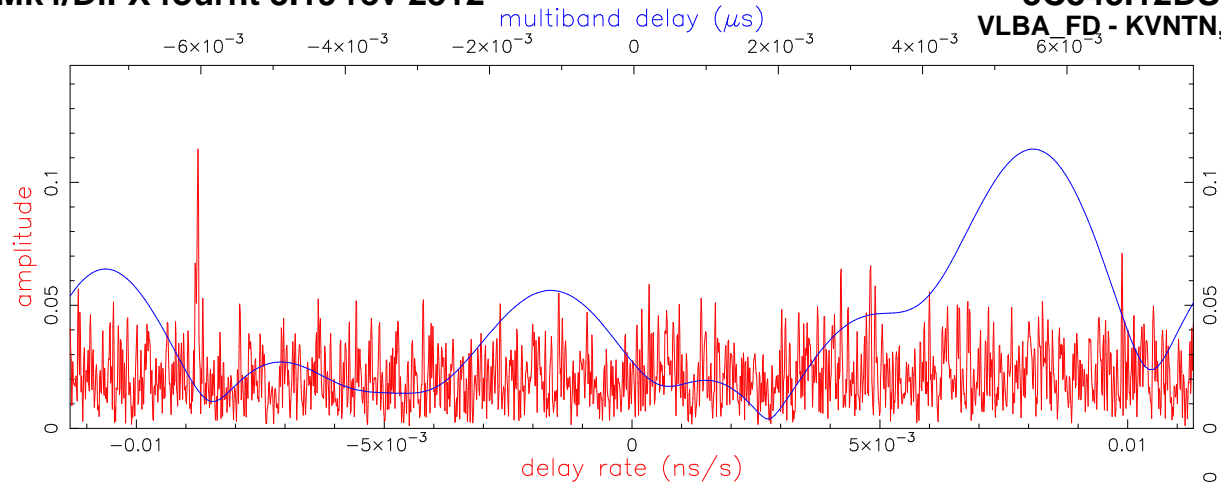
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	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			
t	1000	1000	1000	1000	1000	1000	1000	1000			
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
b:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
b	1000	1000	1000	1000	1000	1000	1000	1000			
t	1000	1000	1000	1000	1000	1000	1000	1000			
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
Group delay (usec)(sbd)	-9.8768111495E+02	-9.87679799527E+02	-9.88541149657E+02	-1.48488445171E+00	-9.88541144777E+02	-2.8328976E+01	-4.4239506E-07	-1.48488038985E+00	1.92441827029E-05	6.58282E-04	+/- 1.8E-04
Sband delay (usec)	-156.6	-158.6	-130.6	-128.1	-136.2	165.7	-137.0	-136.7		8.61345E-01	+/- 1.4E-03
Phase delay (usec)	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1		-4.88017E-06	+/- 6.1E-07
Delay rate (us/s)	27.3	477.4	48.3	427.4	106.2	33.8	476.3	297.3		-4.06186E-06	+/- 2.5E-09
Total phase (deg)										-151.3	+/- 18.9
RMS	41.7	45.4									
ph/seg (deg)	68.2	79.2									
amp/seg (%)	24.3	26.8									
ph/frq (deg)	35.4	46.7									
amp/frq (%)											

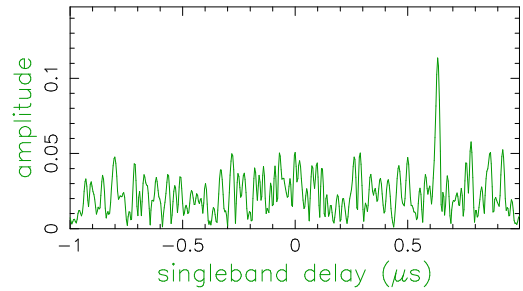
b: az 283.1 el 45.8 pa 57.8 t: az 65.6 el 48.4 pa -81.7 u,v (fr/asec) 11100.339 2457.355 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/bt..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/bt.W.9.12DSJB

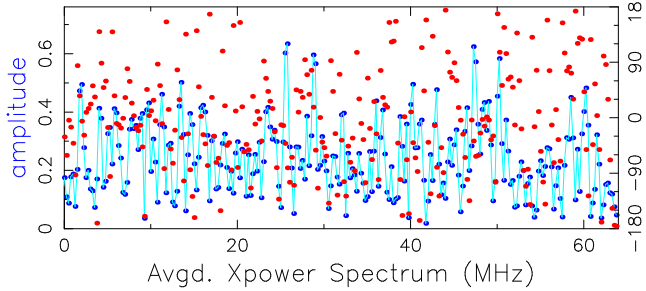


Fringe quality 0

SNR 6.4
Int time 419.830
Amp 0.148
Phase 25.7
PFD 4.8e-02
Delays (us)
SBD 0.633587
MBD 0.005515
Fringe rate (Hz)
-0.755078
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

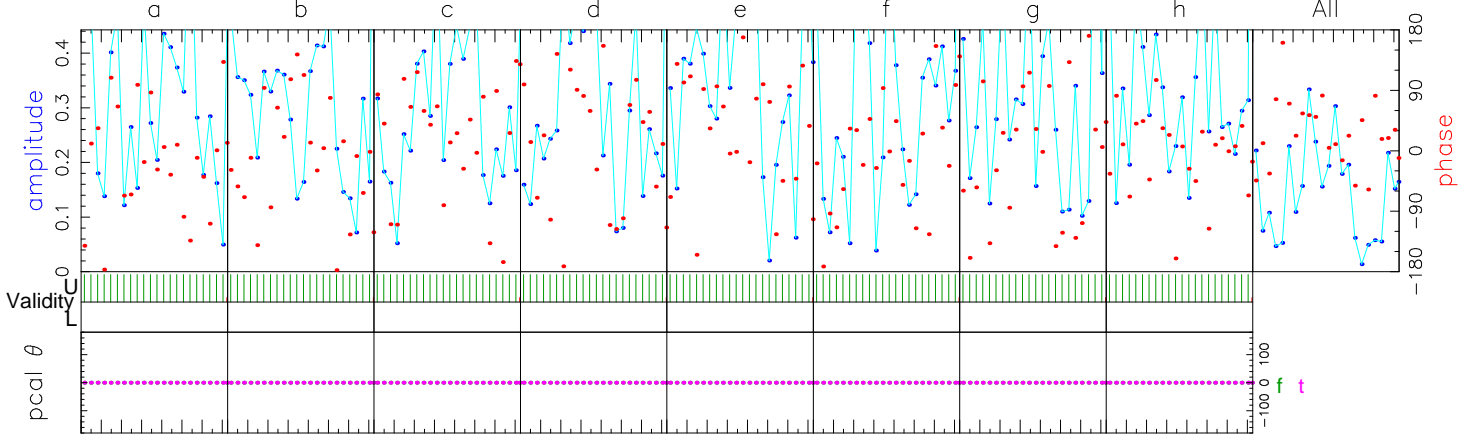


delay rate (ns/s)



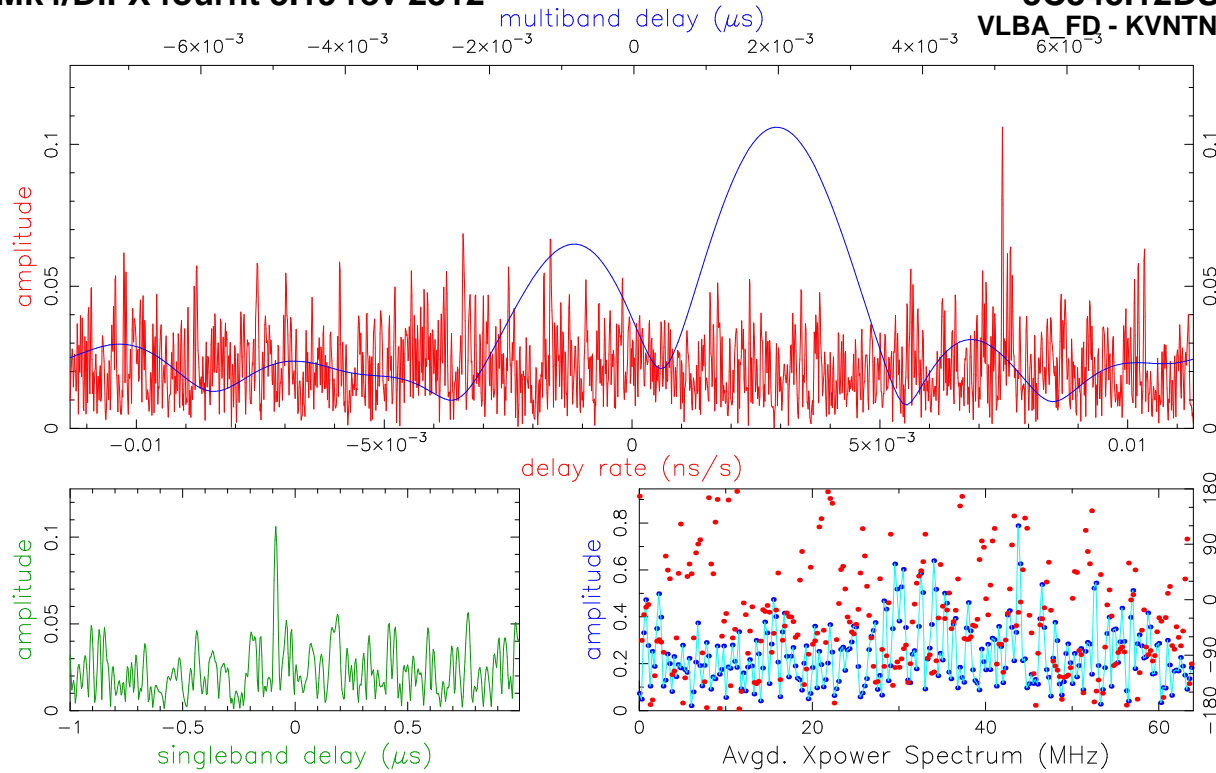
Exp. c192a
Yr:day 16383
Start 2019:277
Stop 2019:277
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183414
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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



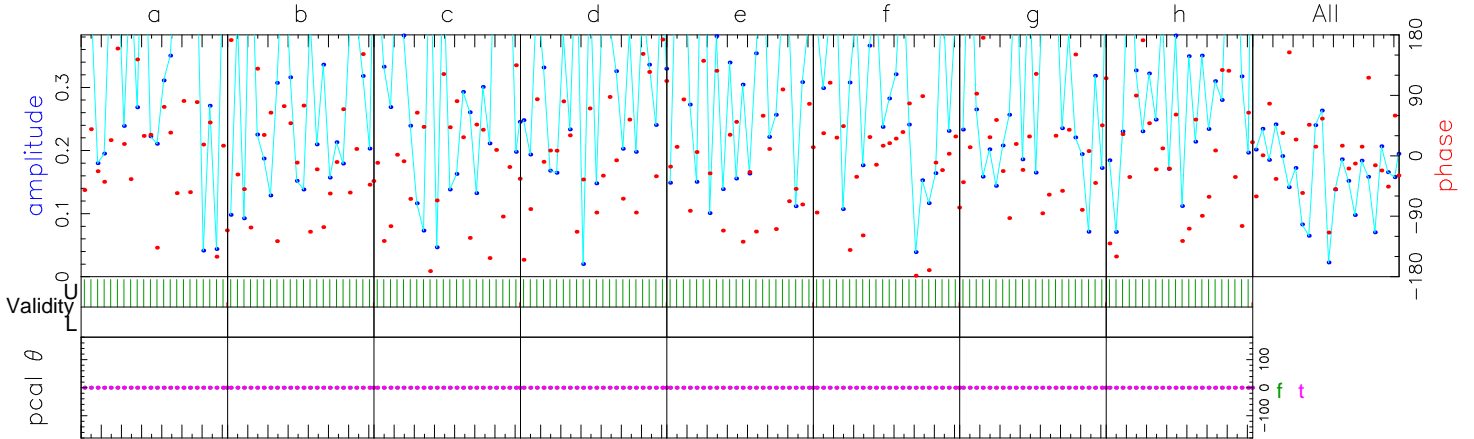
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-22.9	-3.6	49.8	83.3	69.4	7.8	35.8	5.8	Phase	25.7
	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.3	Ampl.	0.2
	341.0	241.9	330.7	211.0	298.0	374.0	164.2	419.6	Sbd box	419.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
ft	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	
t	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.37958846736E+03		Apriori delay (usec)		-6.38021898199E+03		Resid mbdelay (usec)		5.51463E-03	+/- 1.7E-04
Sband delay (usec)	-6.37958539449E+03		Apriori clock (usec)		-2.7256317E+01		Resid sbdelay (usec)		6.33587E-01	+/- 1.4E-03
Phase delay (usec)	-6.38021898116E+03		Apriori clockrate (us/s)		-2.9094950E-07		Resid phdelay (usec)		8.27554E-07	+/- 5.8E-07
Delay rate (us/s)	-1.78219467190E+00		Apriori rate (us/s)		-1.78218590620E+00		Resid rate (us/s)		-8.76570E-06	+/- 2.4E-09
Total phase (deg)			Apriori accel (us/s/s)		3.09548586555E-05		Resid phase (deg)		25.7	+/- 18.0

	RMS	Theor.	Amplitude	0.148 +/- 0.023	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	50.3	43.1	Search (2048X32)	0.111	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	81.6	75.2	Interp.	0.000	SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	40.5	25.4	Inc. seg. avg.	0.147	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	41.5	44.3	Inc. frq. avg.	0.158	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00



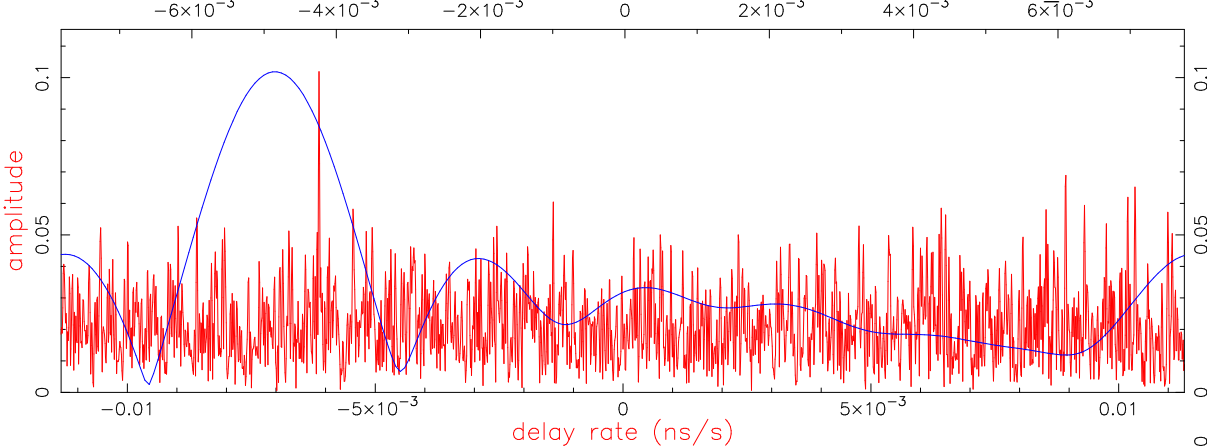
Fringe quality 0
SNR 5.9
Int time 419.830
Amp 0.128
Phase 7.6
PFD 5.1e-01
Delays (us)
SBD -0.086210
MBD 0.001980
Fringe rate (Hz)
0.644917
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183420
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



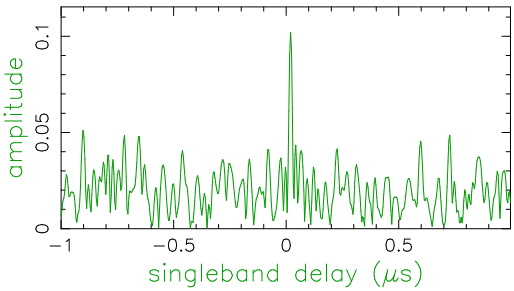
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
f:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
ft	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-6.38031075202E+03	-6.38030519199E+03	-6.38021898174E+03	-1.78217841935E+00						
Sband delay (usec)										
Phase delay (usec)										
Delay rate (us/s)										
Total phase (deg)			-31.5							
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)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

multiband delay (μs)

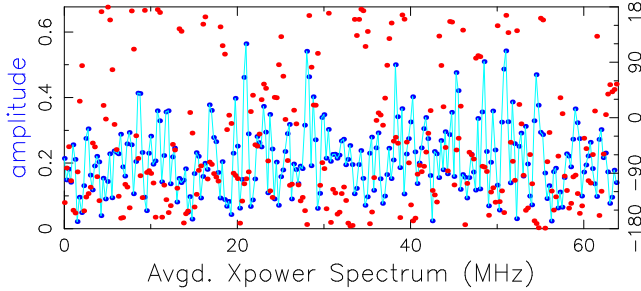


Fringe quality 0

SNR 5.7
Int time 419.830
Amp 0.115
Phase 166.3
PFD 9.4e-01
Delays (us)
SBD 0.019679
MBD -0.004852
Fringe rate (Hz)
-0.529181
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

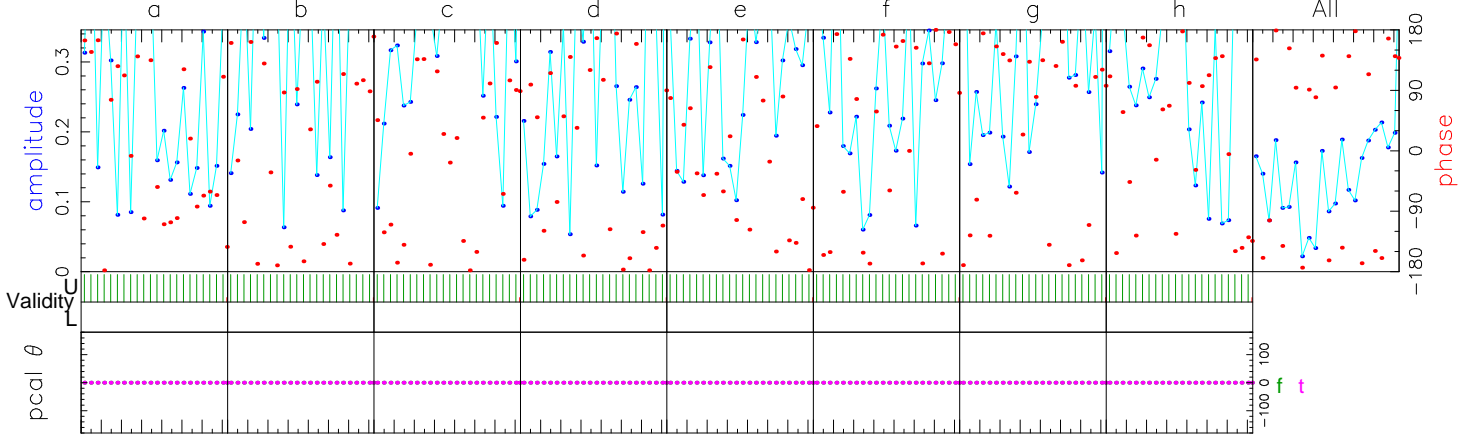


delay rate (ns/s)



Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183406
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



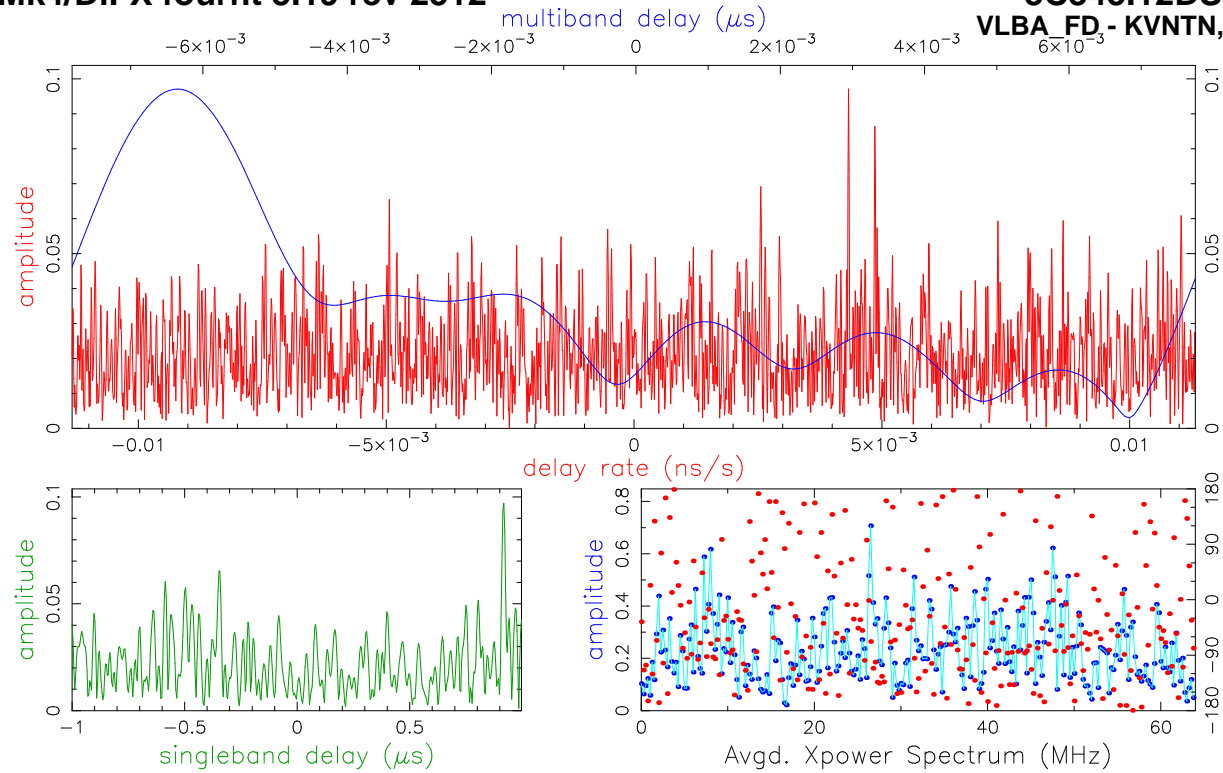
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
f:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
ft	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-6.38019258386E+03	Apriori delay (usec)	-6.38021898199E+03	Resid mbdelay (usec)	-4.85187E-03	+/-	1.9E-04
Sband delay (usec)	-6.38019930324E+03	Apriori clock (usec)	-2.7256317E+01	Resid sbdelay (usec)	1.96787E-02	+/-	1.5E-03
Phase delay (usec)	-6.38021897663E+03	Apriori clockrate (us/s)	-2.9094950E-07	Resid phdelay (usec)	5.36329E-06	+/-	6.5E-07
Delay rate (us/s)	-1.78219204946E+00	Apriori rate (us/s)	-1.78218590620E+00	Resid rate (us/s)	-6.14326E-06	+/-	2.7E-09
Total phase (deg)	127.2	Apriori accel (us/s/s)	3.09548586555E-05	Resid phase (deg)	166.3	+/-	20.1

ph/seg (deg)	47.3	Theor.	48.1	Search (2048X32)	0.099	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	69.0		84.0	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)	64.0		28.4	Inc. seg. avg.	0.113	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	37.6		49.6	Inc. frq. avg.	0.111	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 301.9 el 27.8 pa 71.6 t: az 65.6 el 48.4 pa -81.7 u,v (fr/asec) 13331.915 1595.800 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/ft..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/ft.W.82.12DSJB

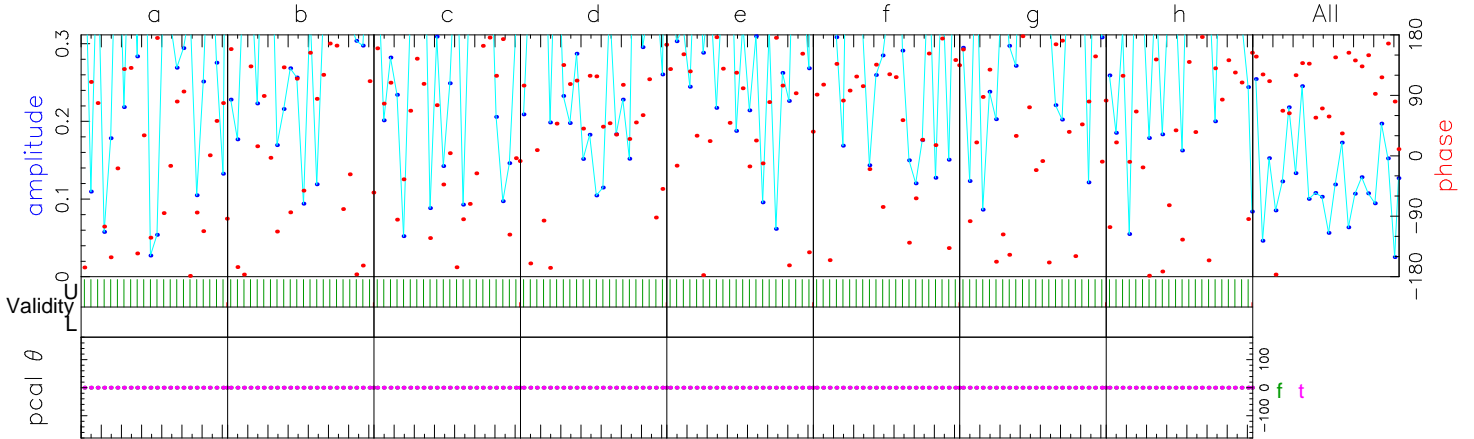


Fringe quality 0

SNR 5.5
Int time 419.830
Amp 0.104
Phase 115.4
PFD 1.0e+00
Delays (us)
SBD 0.916925
MBD -0.006371
Fringe rate (Hz)
0.373765
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

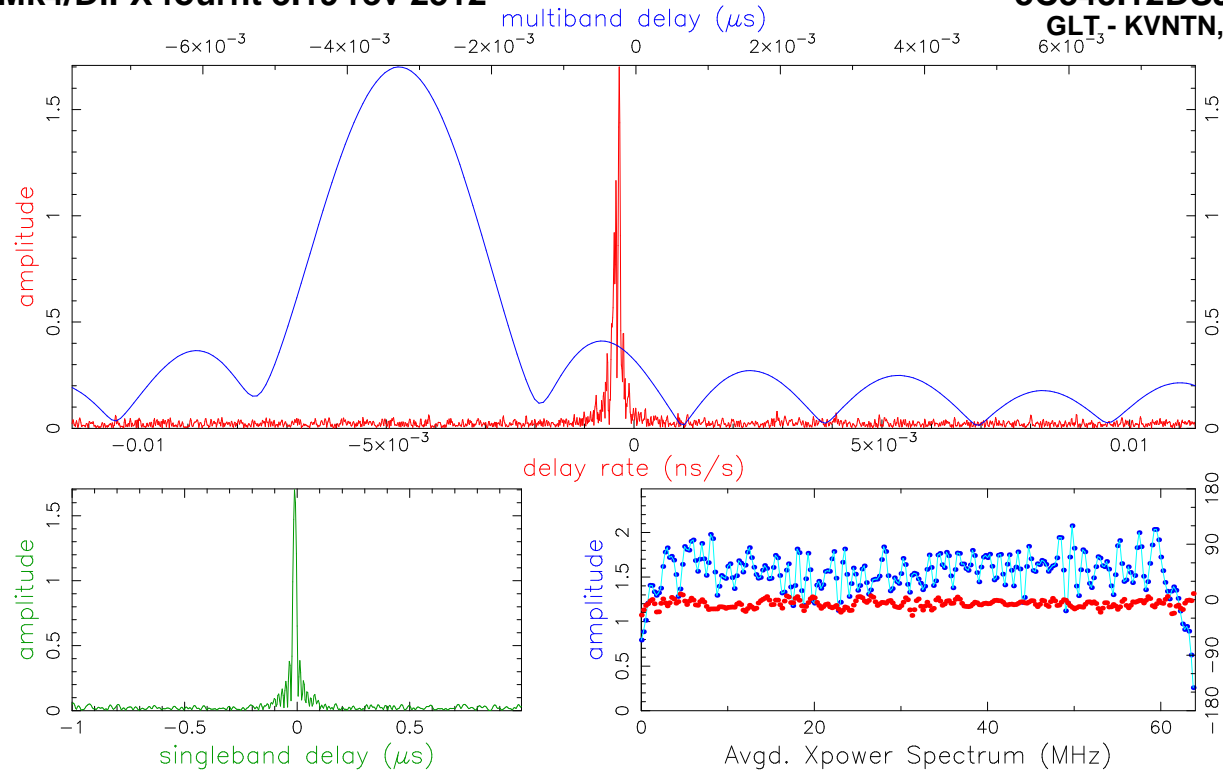
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183410
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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		
t	1000	1000	1000	1000	1000	1000	1000	1000		
f:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
ft	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		
t	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-6.37930347775E+03									
Sband delay (usec)	-6.37930205699E+03									
Phase delay (usec)	-6.38021897827E+03									
Delay rate (us/s)	-1.78218156715E+00									
Total phase (deg)			76.3							
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								
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) 41.4 50.2 Search (2048X32) 0.096 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 67.7 87.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 34.9 29.6 Inc. seg. avg. 0.098 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 54.5 51.7 Inc. frq. avg. 0.101 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 301.9 el 27.8 pa 71.6 t: az 65.6 el 48.4 pa -81.7 u,v (fr/asec) 13331.915 1595.800 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/ft..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/ft.W.94.12DSJB simultaneous interpolator

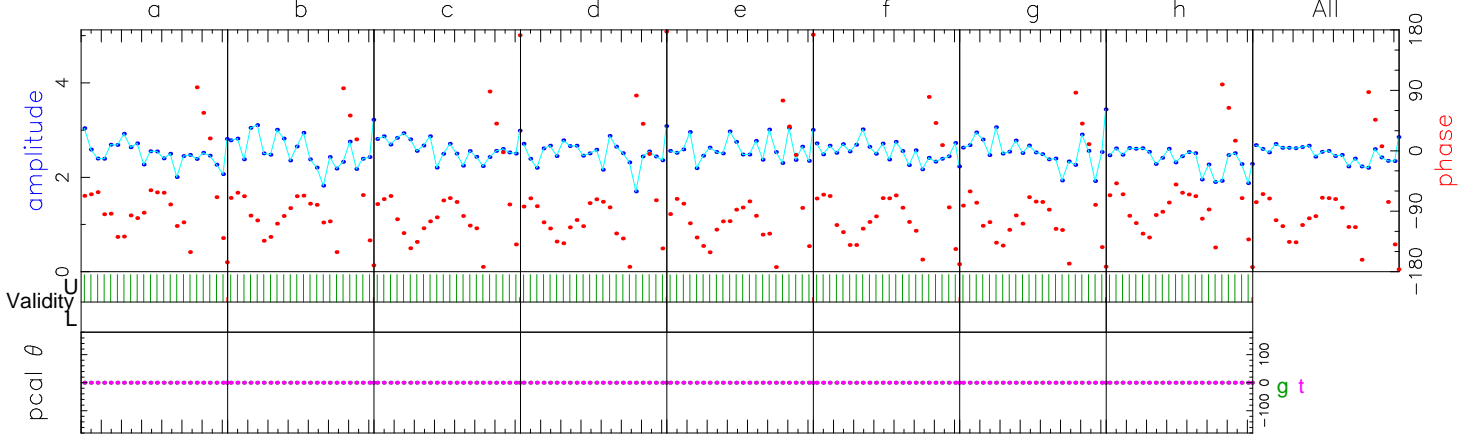


Fringe quality 5

SNR 95.6
Int time 419.605
Amp 1.707
Phase -94.7
PFD 0.0e+00
Delays (us)
SBD -0.010932
MBD -0.003278
Fringe rate (Hz)
-0.025997
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

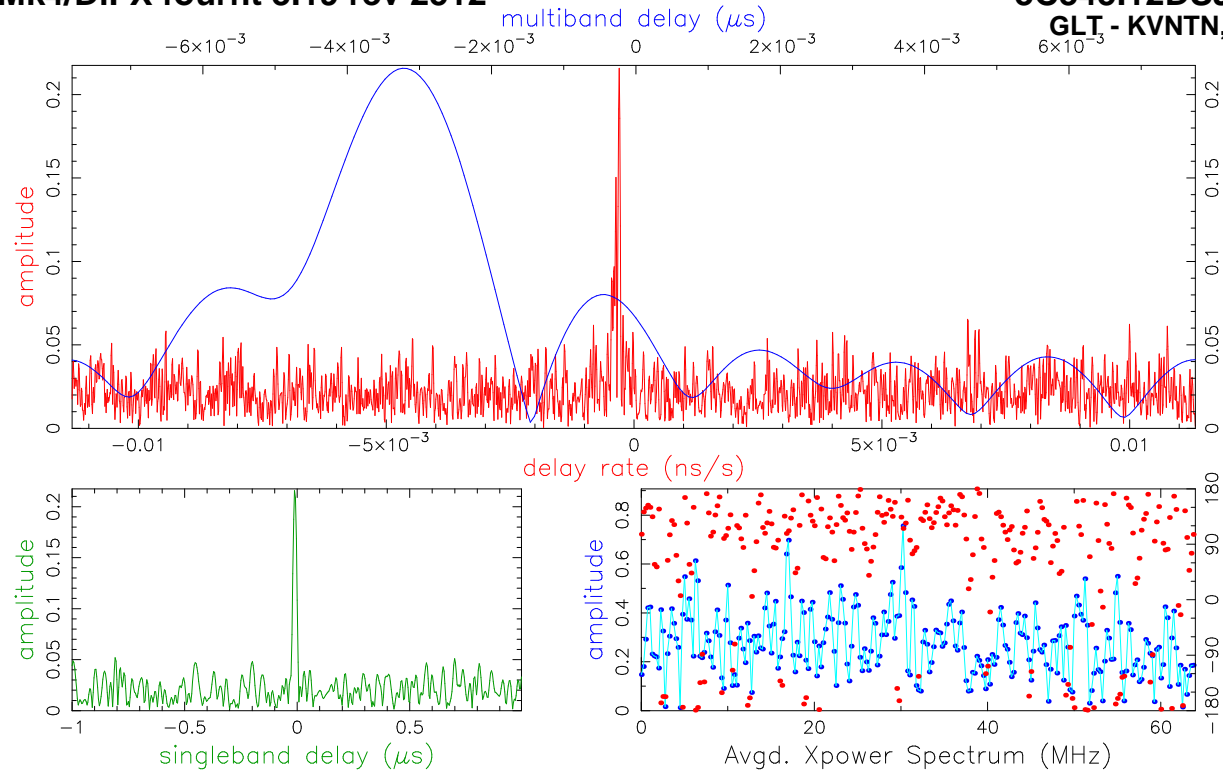
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183416
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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
	-87.2	-89.9	-98.3	-100.8	-104.1	-96.7	-98.0	-81.7	Phase	-94.7
	1.7	1.8	1.8	1.7	1.8	1.7	1.7	1.6	Ampl.	1.7
	254.1	254.2	254.1	254.3	254.0	254.2	254.3	254.3	Sbd box	254.2
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	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
t	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.41656905147E+03		Apriori delay (usec)		-4.41656577328E+03		Resid mbdelay (usec)		-3.27820E-03 +/- 1.1E-05	
Sband delay (usec)	-4.41657670503E+03		Apriori clock (usec)		-2.6409302E+01		Resid sbdelay (usec)		-1.09317E-02 +/- 9.0E-05	
Phase delay (usec)	-4.41656577633E+03		Apriori clockrate (us/s)		-1.2500000E-07		Resid phdelay (usec)		-3.05476E-06 +/- 3.9E-08	
Delay rate (us/s)	-1.03020870069E+00		Apriori rate (us/s)		-1.03020839889E+00		Resid rate (us/s)		-3.01798E-07 +/- 1.6E-10	
Total phase (deg)			Apriori accel (us/s/s)		5.39863166029E-05		Resid phase (deg)		-94.7 +/- 1.2	

ph/seg (deg) 59.4 2.9 Search (2048X32) 1.645 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 47.2 5.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 8.2 1.7 Inc. seg. avg. 2.496 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 2.6 3.0 Inc. frq. avg. 1.713 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 301.9 el 33.5 pa 14.8 t: az 65.6 el 48.4 pa -81.7 u,v (fr/asec) 7775.636 6326.804 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/gt..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/gt.W.117.12DSJB

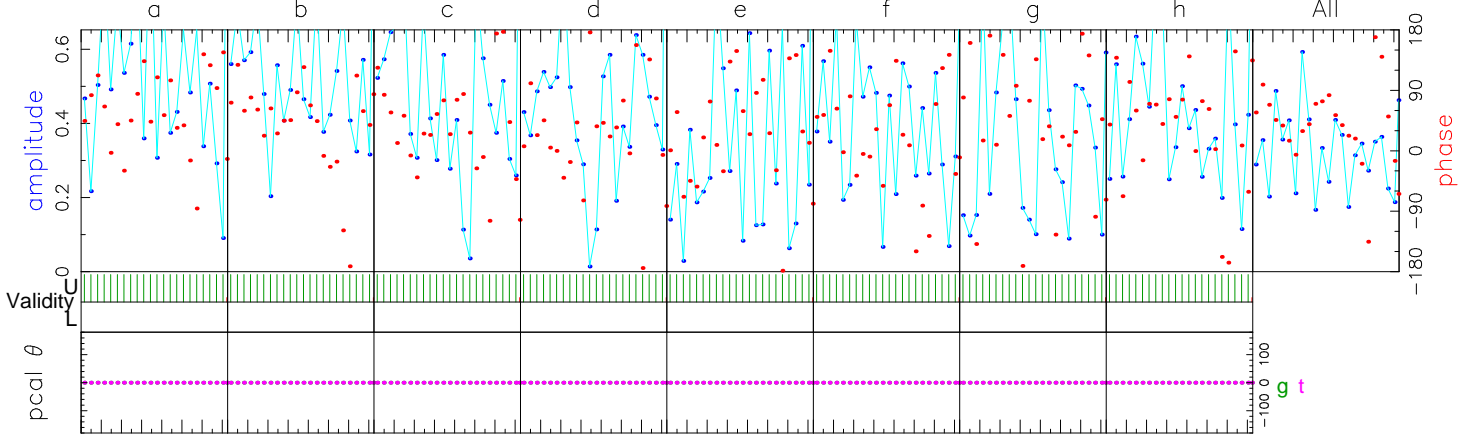


Fringe quality 9

SNR 12.2
Int time 419.600
Amp 0.217
Phase 46.6
PFD 2.1e-25
Delays (us)
SBD -0.010541
MBD -0.003208
Fringe rate (Hz)
-0.025812
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

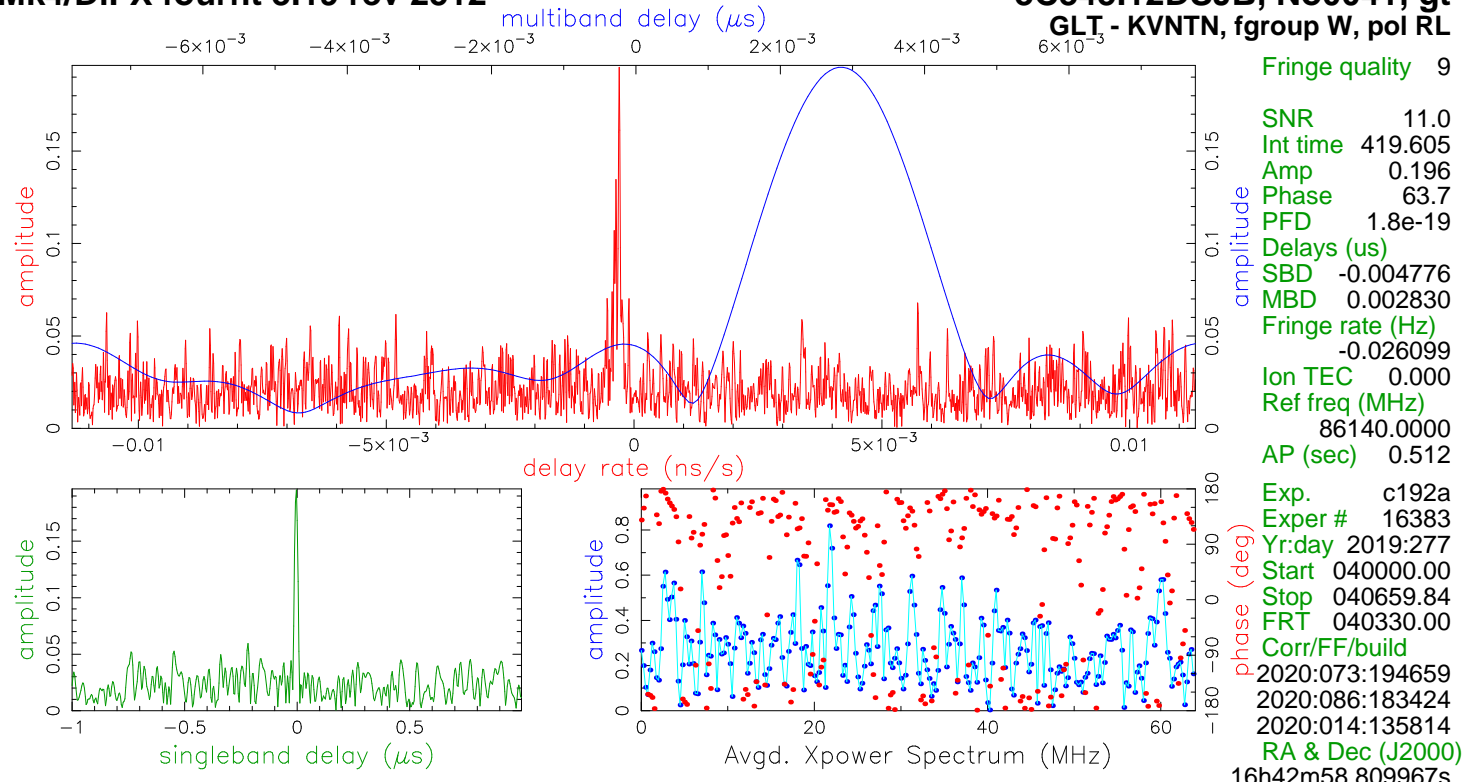
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183419
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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

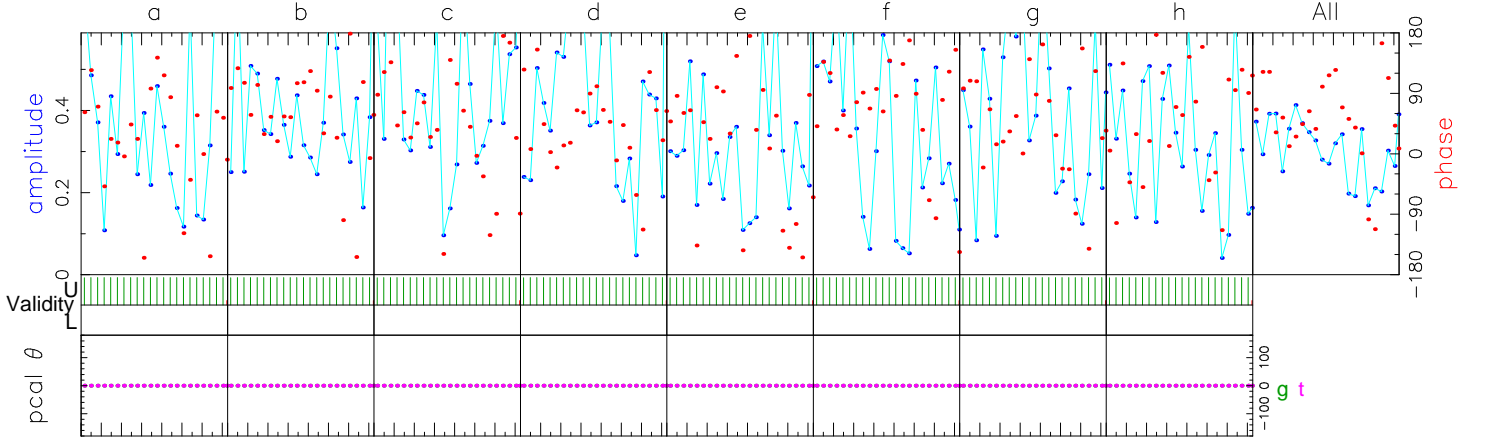


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
g	0	0	0	0	0	0	0	0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
g:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-4.41656898157E+03									
Sband delay (usec)	-4.41657631428E+03									
Phase delay (usec)	-4.41656577177E+03									
Delay rate (us/s)	-1.03020869854E+00									
Total phase (deg)			-209.0							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									46.6	+/- 9.4
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) 59.0 22.6 Search (2048X32) 0.210 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 68.3 39.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 19.7 13.3 Inc. seg. avg. 0.299 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 31.4 23.2 Inc. frq. avg. 0.219 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 g: az 301.9 el 33.5 pa 14.8 t: az 65.6 el 48.4 pa -81.7 u,v (fr/asec) 7775.636 6326.804 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/gt..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/gt.W.130.12DSJB

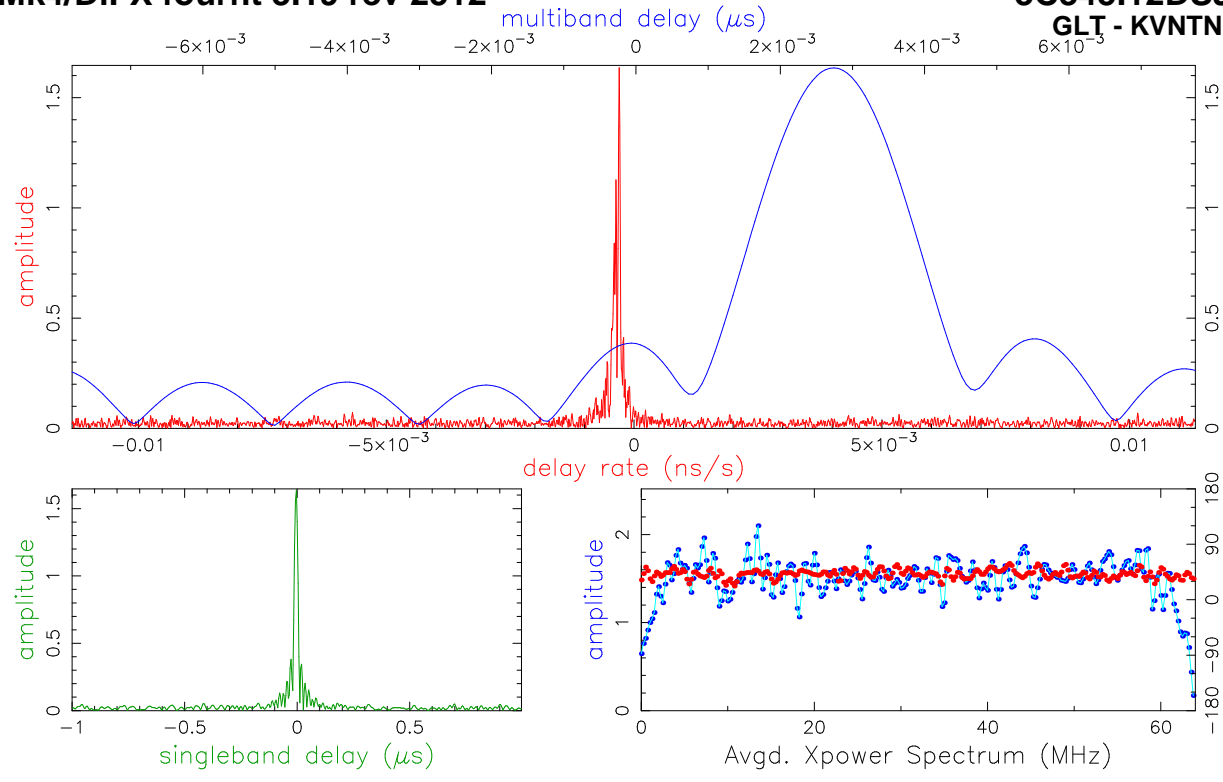


Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	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		
t	1000	1000	1000	1000	1000	1000	1000	1000		
g:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-4.41656294357E+03				-4.41656577328E+03				2.82971E-03	+/- 9.9E-05
Sband delay (usec)	-4.41657054928E+03				-2.6409302E+01				-4.77600E-03	+/- 7.8E-04
Phase delay (usec)	-4.41656577122E+03				-1.2500000E-07				2.05487E-06	+/- 3.4E-07
Delay rate (us/s)	-1.03020870188E+00				-1.03020839889E+00				-3.02989E-07	+/- 1.4E-09
Total phase (deg)			-191.9		5.39863166029E-05				63.7	+/- 10.4
	RMS	Theor.	Amplitude	0.196 +/- 0.018						
ph/seg (deg)	65.9	25.0	Search (2048X32)	0.189						
amp/seg (%)	64.9	43.6	Interp.	0.000						
ph/frq (deg)	11.9	14.7	Inc. seg. avg.	0.276						
amp/frq (%)	24.9	25.7	Inc. frq. avg.	0.193						
g: az 301.9 el 33.5 pa 14.8			t: az 65.6 el 48.4 pa -81.7							
			u,v (fr/asec) 7775.636 6326.804							
Control file: cf_1234_gmva	Input file: /Exps/c192a/v1_PV/1234/No0041/gt..12DSJB	Output file: /Exps/c192a/v1_PV/1234/No0041/gt.W.151.12DSJB								

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

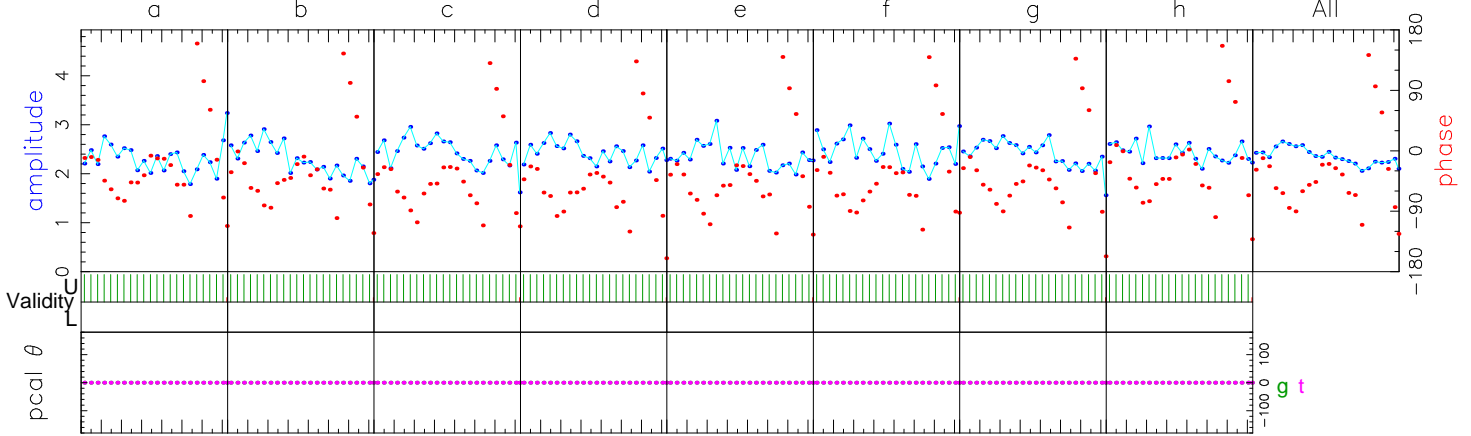


Fringe quality 5

SNR 92.2
Int time 419.600
Amp 1.647
Phase -46.2
PFD 0.0e+00
Delays (us)
SBD -0.004911
MBD 0.002737
Fringe rate (Hz)
-0.026004
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

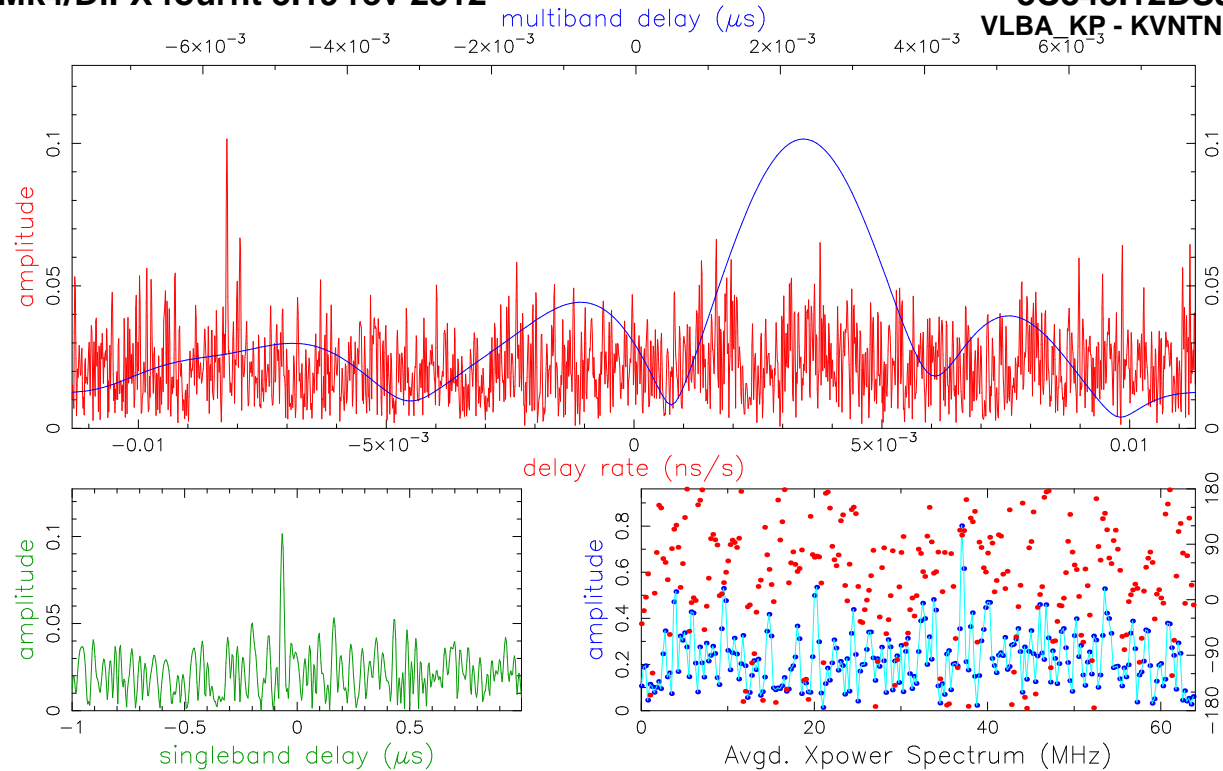
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183411
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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



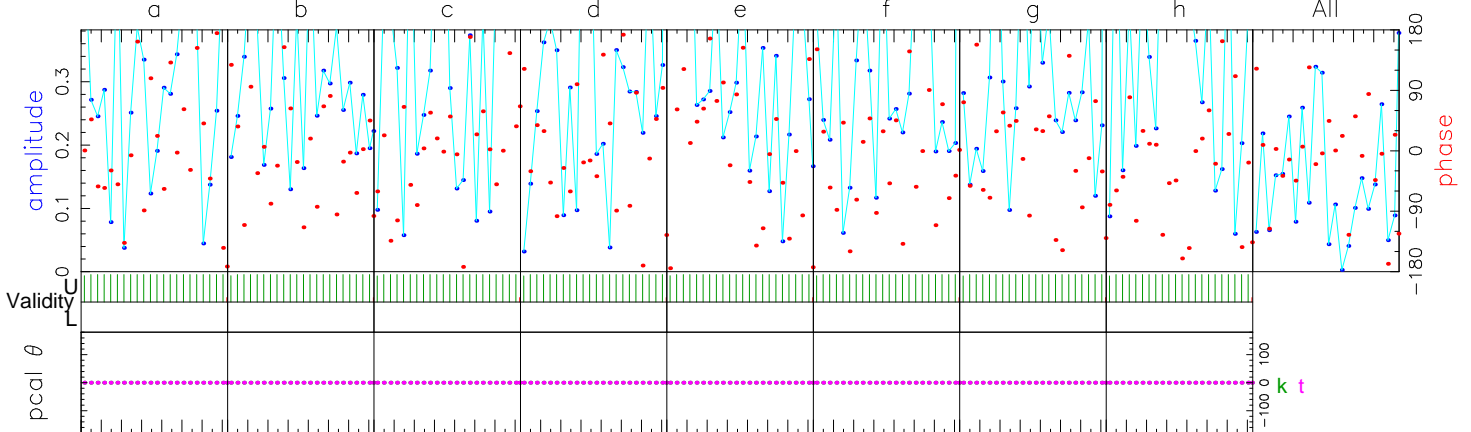
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-35.3	-41.8	-50.5	-57.4	-54.4	-50.3	-47.3	-31.8	Phase	-46.2
	1.6	1.6	1.7	1.7	1.6	1.7	1.7	1.6	Ampl.	1.7
	255.7	255.8	255.6	255.8	255.7	255.8	255.7	255.8	Sbd box	255.7
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
g	0	0	0	0	0	0	0	0	PC freqs	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
g	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
t	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.41656303613E+03		Apriori delay (usec)		-4.41656577328E+03		Resid mbdelay (usec)		2.73715E-03	+/- 1.2E-05
Sband delay (usec)	-4.41657068453E+03		Apriori clock (usec)		-2.6409302E+01		Resid sbdelay (usec)		-4.91125E-03	+/- 9.3E-05
Phase delay (usec)	-4.41656577477E+03		Apriori clockrate (us/s)		-1.2500000E-07		Resid phdelay (usec)		-1.49041E-06	+/- 4.0E-08
Delay rate (us/s)	-1.03020870078E+00		Apriori rate (us/s)		-1.03020839889E+00		Resid rate (us/s)		-3.01886E-07	+/- 1.7E-10
Total phase (deg)			Apriori accel (us/s/s)		5.39863166029E-05		Resid phase (deg)		-46.2	+/- 1.2

ph/seg (deg) 58.5 3.0 Search (2048X32) 1.595 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 44.7 5.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 9.8 1.8 Inc. seg. avg. 2.363 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 2.2 3.1 Inc. frq. avg. 1.653 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 301.9 el 33.5 pa 14.8 t: az 65.6 el 48.4 pa -81.7 u,v (fr/asec) 7775.636 6326.804 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/gt..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/gt.W.96.12DSJB



Fringe quality 0
SNR 5.7
Int time 418.958
Amp 0.127
Phase -4.4
PFD 9.6e-01
Delays (us)
SBD -0.066331
MBD 0.002319
Fringe rate (Hz)
-0.708392
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183413
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

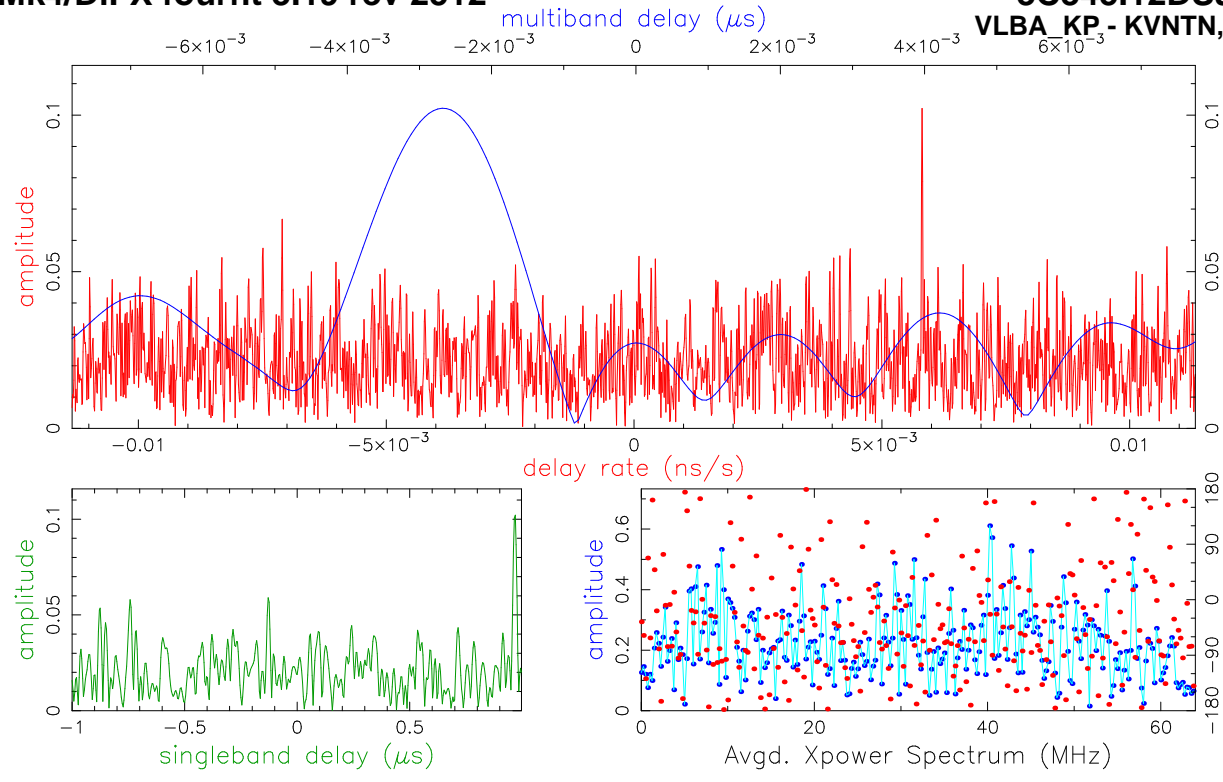


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
k:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	-4.36007000899E+03	Apriori delay (usec)	-4.36000982803E+03	Resid mbdelay (usec)	2.31904E-03	+/-	1.9E-04
Sband delay (usec)	-4.36007615928E+03	Apriori clock (usec)	-2.8116564E+01	Resid sbdelay (usec)	-6.63313E-02	+/-	1.5E-03
Phase delay (usec)	-4.36000982817E+03	Apriori clockrate (us/s)	-3.9457898E-07	Resid phdelay (usec)	-1.40394E-07	+/-	6.5E-07
Delay rate (us/s)	-1.73267177561E+00	Apriori rate (us/s)	-1.73266355188E+00	Resid rate (us/s)	-8.22373E-06	+/-	2.7E-09
Total phase (deg)	-215.4	Apriori accel (us/s/s)	2.16307239907E-05	Resid phase (deg)	-4.4	+/-	20.2

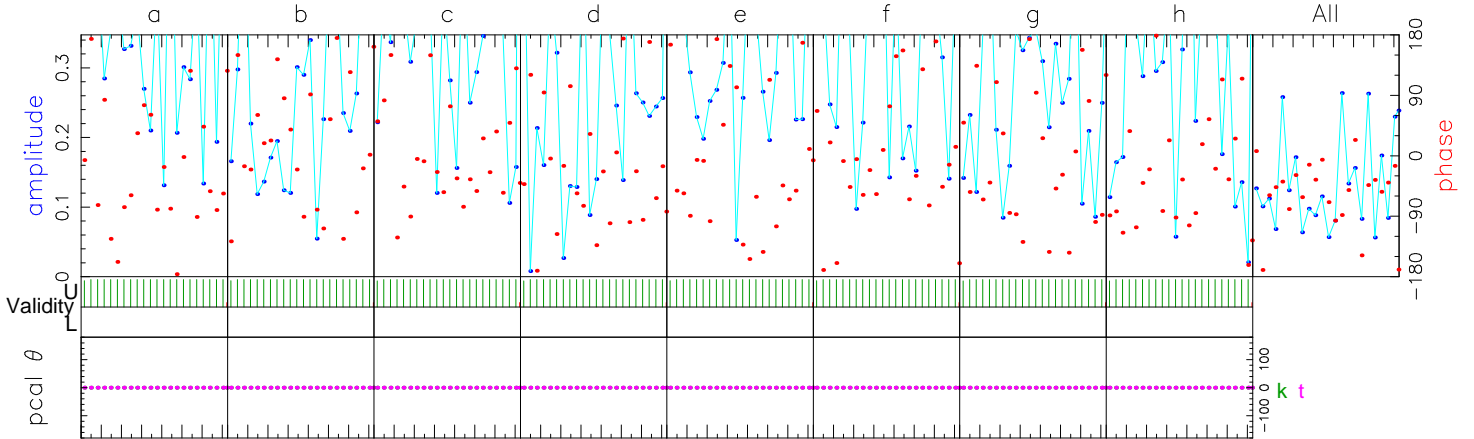
ph/seg (deg)	69.8	Theor.	48.4	Amplitude	0.127 +/- 0.022	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	99.2	Search (2048X32)	0.099	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	37.4	Inc. seg. avg.	0.131	Inc. frq. avg.	0.126	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	27.0	Inc. frq. avg.	0.126			Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011		
						Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

k: az 299.2 el 34.1 pa 74.3 t: az 65.6 el 48.4 pa -81.7 u,v (fr/asec) 12947.261 1124.856 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/kt..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/kt.W.106.12DSJB



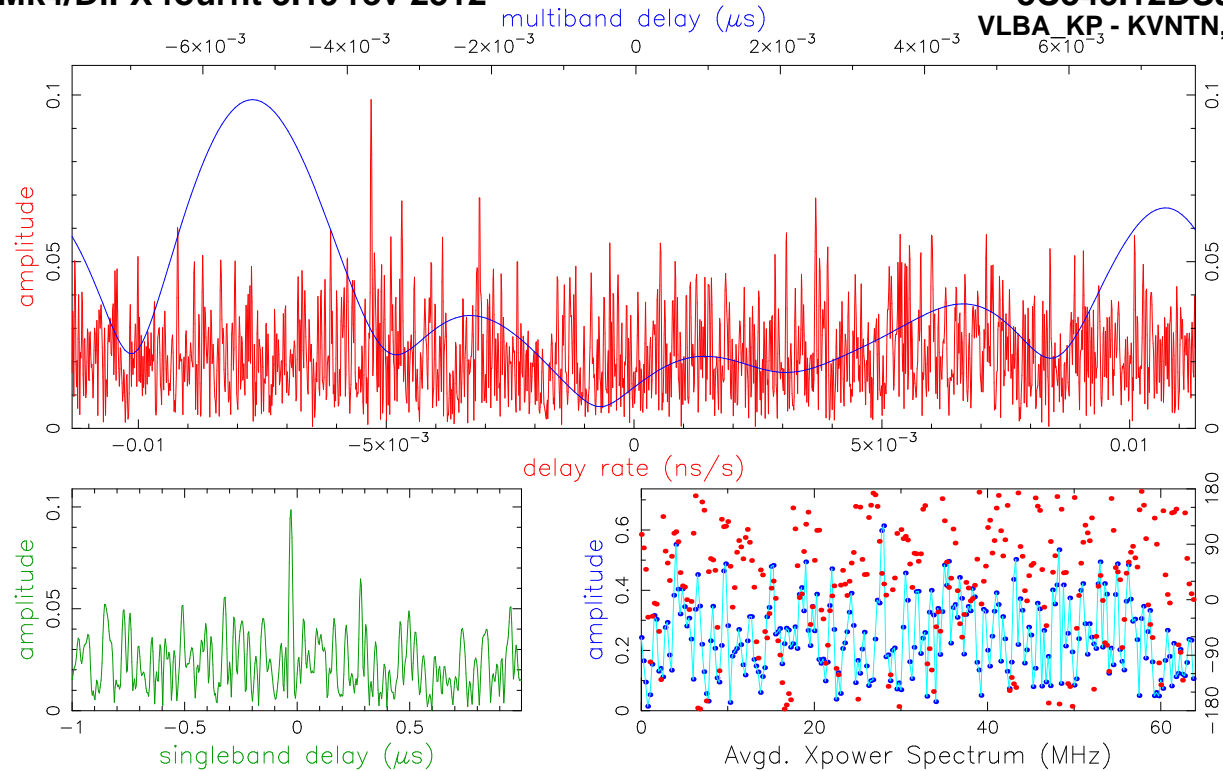
Fringe quality 0
SNR 5.8
Int time 418.958
Amp 0.116
Phase -45.6
PFD 8.0e-01
Delays (us)
SBD 0.967107
MBD -0.002711
Fringe rate (Hz) 0.501592
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183417
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		
k	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
k:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:t	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		
t	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-4.35904378869E+03									
Sband delay (usec)	-4.35904272103E+03									
Phase delay (usec)	-4.36000982950E+03									
Delay rate (us/s)	-1.73265772889E+00									
Total phase (deg)			-256.7							
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)										

ph/seg (deg) 45.9 47.3 Search (2048X32) 0.101 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 70.2 82.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 30.7 27.9 Inc. seg. avg. 0.111 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 34.5 48.7 Inc. frq. avg. 0.112 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
k: az 299.2 el 34.1 pa 74.3 t: az 65.6 el 48.4 pa -81.7 u,v (fr/asec) 12947.261 1124.856 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/kt..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/kt.W.124.12DSJB

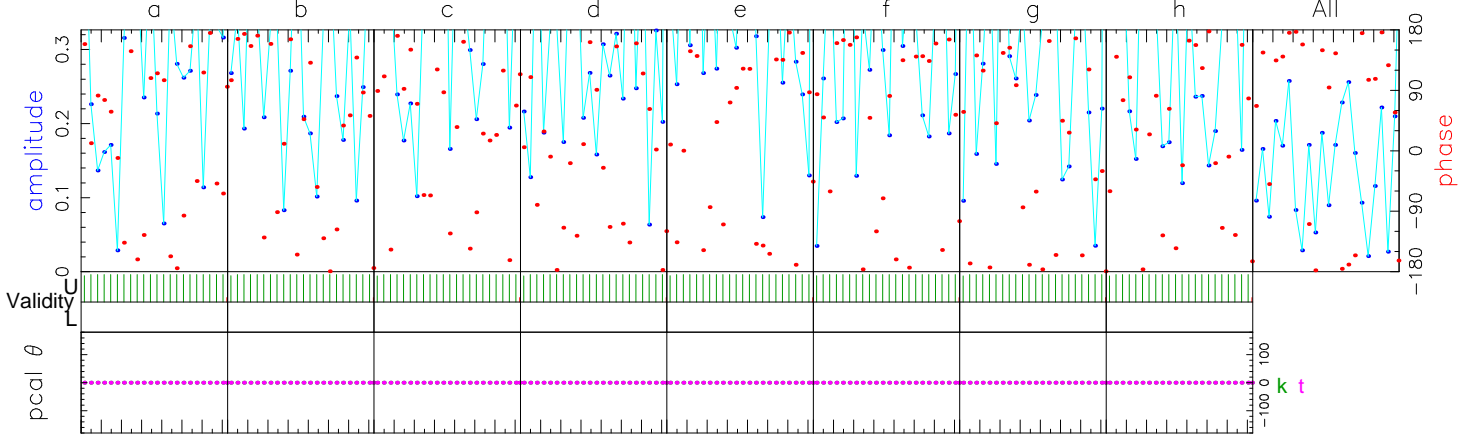


Fringe quality 0

SNR 5.6
Int time 418.958
Amp 0.109
Phase 160.5
PFD 1.0e+00
Delays (us)
SBD -0.028430
MBD -0.005324
Fringe rate (Hz)
-0.457120
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183422
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



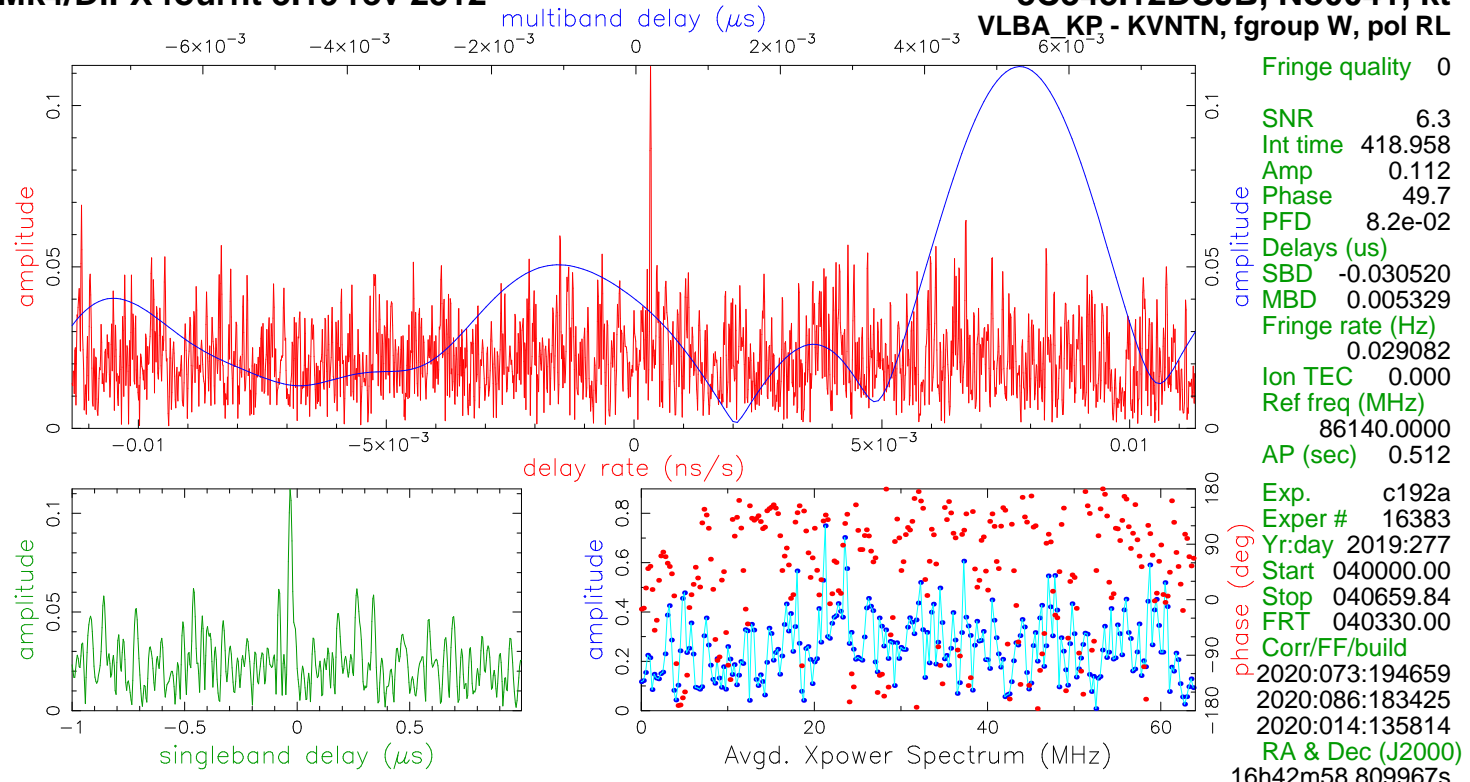
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
k:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-4.36003077682E+03									
Sband delay (usec)	-4.36003825778E+03									
Phase delay (usec)	-4.36000982285E+03									
Delay rate (us/s)	-1.73266885860E+00									
Total phase (deg)			-50.6							
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)										

ph/seg (deg) 55.4 49.4 55.4 49.4
amp/seg (%) 88.5 86.3 88.5 86.3
ph/frq (deg) 48.9 29.1 48.9 29.1
amp/frq (%) 45.0 50.9 45.0 50.9

RMS Theor. Amplitude 0.109 +/- 0.020
55.4 49.4 Search (2048X32) 0.095
88.5 86.3 Interp. 0.000
48.9 29.1 Inc. seg. avg. 0.114
45.0 50.9 Inc. frq. avg. 0.114

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

k: az 299.2 el 34.1 pa 74.3 t: az 65.6 el 48.4 pa -81.7 u,v (fr/asec) 12947.261 1124.856 simultaneous interpolator



Fringe quality 0

SNR 6.3

Int time 418.958

Amp 0.112

Phase 49.7

PFD 8.2e-02

Delays (us)

SBD -0.030520

MBD 0.005329

Fringe rate (Hz)

0.029082

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c192a

Exper # 16383

Yr:day 2019:277

Start 040000.00

Stop 040659.84

FRT 040330.00

Corr/FF/build

2020:073:194659

2020:086:183425

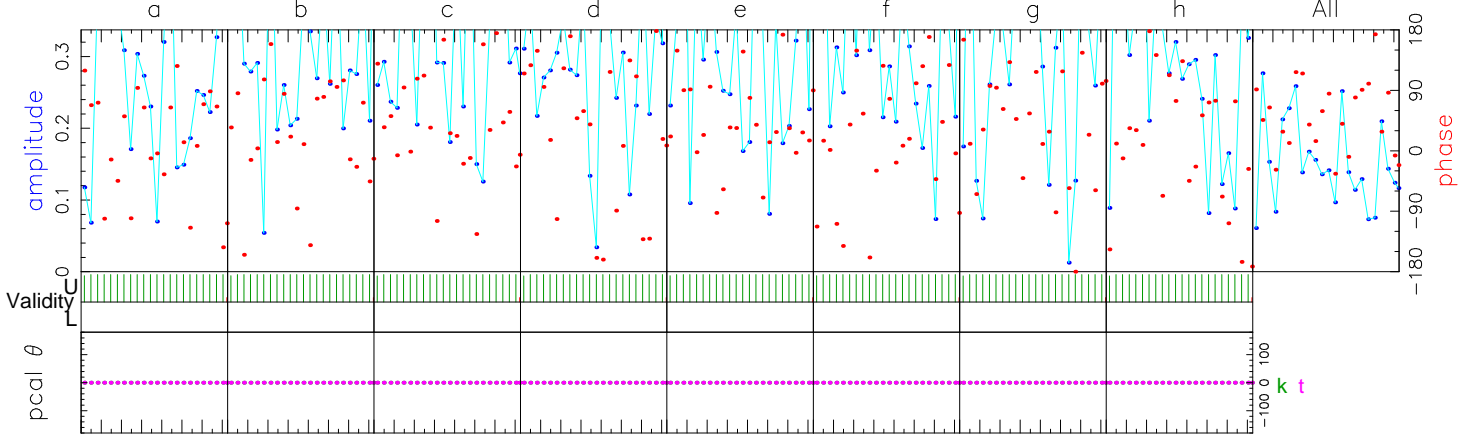
2020:014:135814

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		
k	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
k:t	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		
t	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-4.36003574898E+03				-4.36000982803E+03				5.32905E-03	+/- 1.7E-04
Sband delay (usec)	-4.36004034803E+03				-2.8116564E+01				-3.05200E-02	+/- 1.4E-03
Phase delay (usec)	-4.36000982643E+03				-3.9457898E-07				1.60122E-06	+/- 5.9E-07
Delay rate (us/s)	-1.73266321427E+00				-1.73266355188E+00				3.37609E-07	+/- 2.4E-09
Total phase (deg)			-161.4		2.16307239907E-05				49.7	+/- 18.2
	RMS	Theor.	Amplitude	0.112 +/- 0.018						
ph/seg (deg)	51.3	43.7	Search (2048X32)	0.104						
amp/seg (%)	65.0	76.2	Interp.	0.000						
ph/frq (deg)	37.2	25.8	Inc. seg. avg.	0.119						
amp/frq (%)	32.8	45.0	Inc. frq. avg.	0.114						

Group delay (usec)(sbd) -4.36003574898E+03 Apriori delay (usec) -4.36000982803E+03 Resid mbdelay (usec) 5.32905E-03 +/- 1.7E-04

Sband delay (usec) -4.36004034803E+03 Apriori clock (usec) -2.8116564E+01 Resid sbdelay (usec) -3.05200E-02 +/- 1.4E-03

Phase delay (usec) -4.36000982643E+03 Apriori clockrate (us/s) -3.9457898E-07 Resid phdelay (usec) 1.60122E-06 +/- 5.9E-07

Delay rate (us/s) -1.73266321427E+00 Apriori rate (us/s) -1.73266355188E+00 Resid rate (us/s) 3.37609E-07 +/- 2.4E-09

Total phase (deg) -161.4 Apriori accel (us/s/s) 2.16307239907E-05 Resid phase (deg) 49.7 +/- 18.2

ph/seg (deg) 51.3 Theor. 43.7 Amplitude 0.112 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 65.0 76.2 Search (2048X32) 0.104 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

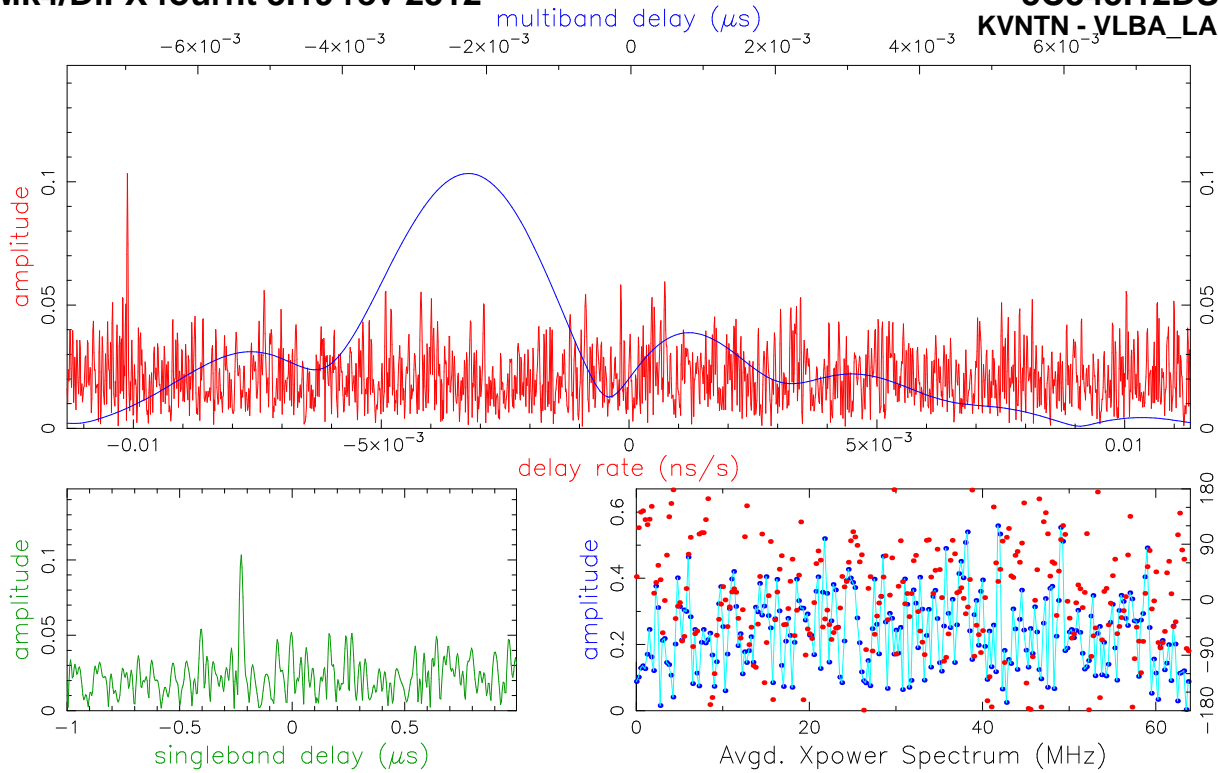
ph/frq (deg) 37.2 25.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 32.8 45.0 Inc. seg. avg. 0.119 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011

amp/frq (%) 32.8 45.0 Inc. frq. avg. 0.114 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

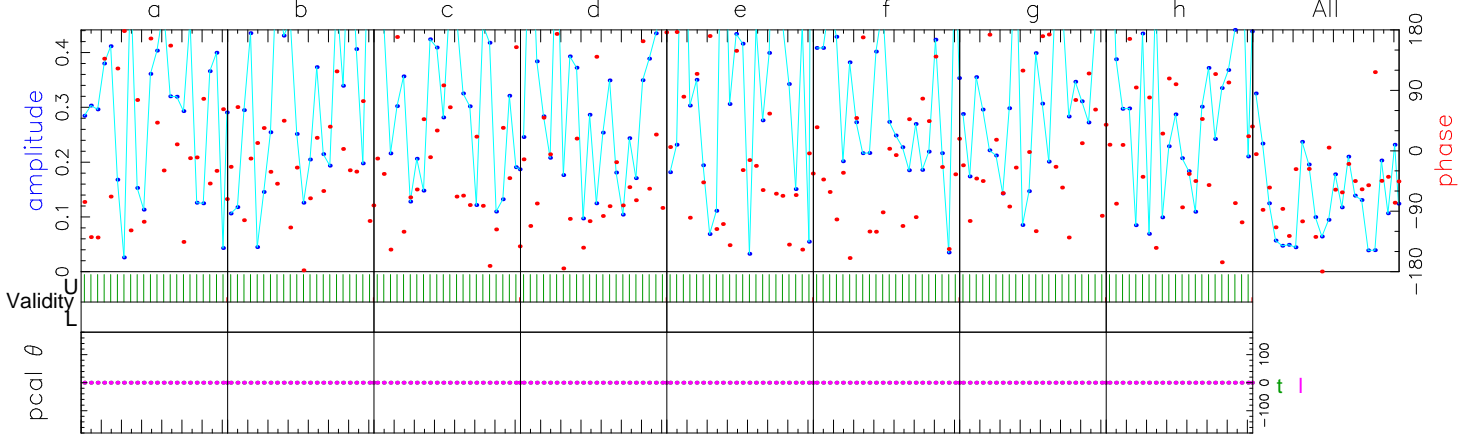
k: az 299.2 el 34.1 pa 74.3 t: az 65.6 el 48.4 pa -81.7 u,v (fr/asec) 12947.261 1124.856 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/kt..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/kt.W.158.12DSJB



Fringe quality 0
SNR 5.8
Int time 419.829
Amp 0.147
Phase -55.7
PFD 8.2e-01
Delays (us)
SBD -0.226802
MBD -0.002251
Fringe rate (Hz)
-0.872846
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183432
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

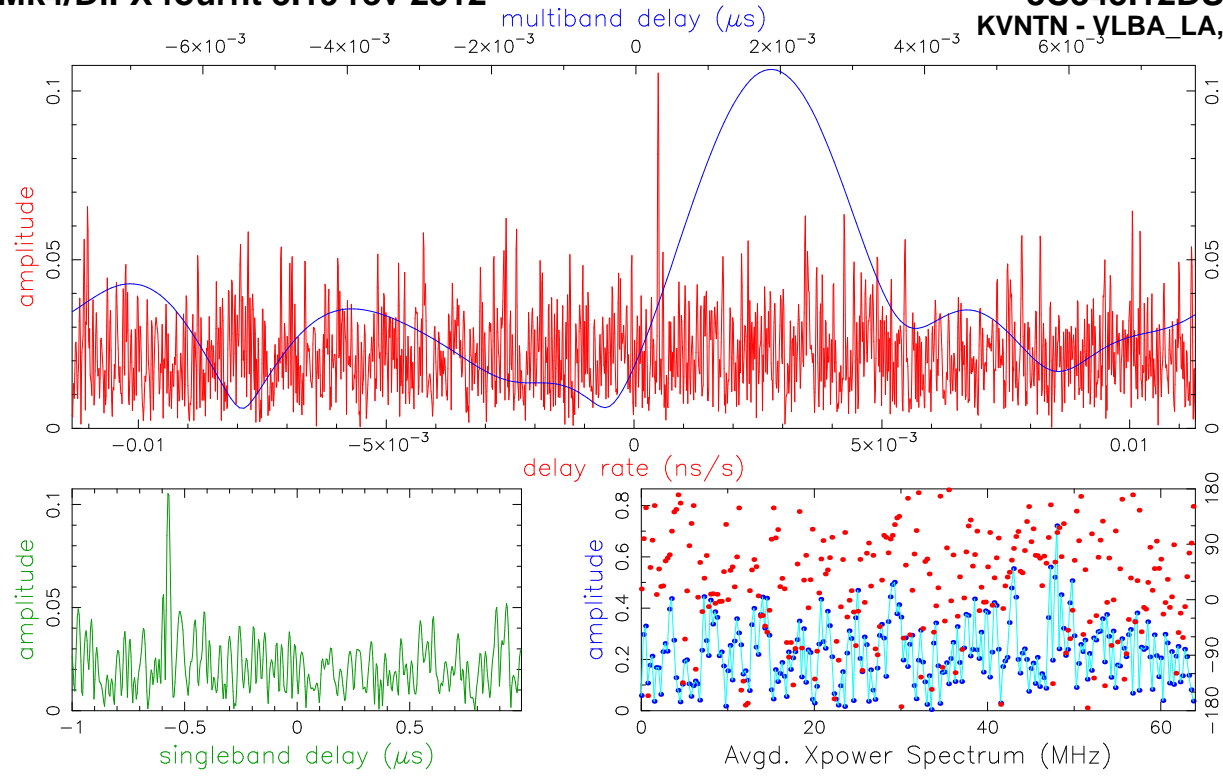
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-68.5	-30.6	-44.4	-88.3	-79.5	-57.2	-42.3	-38.6	Phase	-55.7
	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	Ampl.	0.1
	257.7	32.5	451.4	65.2	238.4	73.7	226.0	341.1	Sbd box	198.9
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	

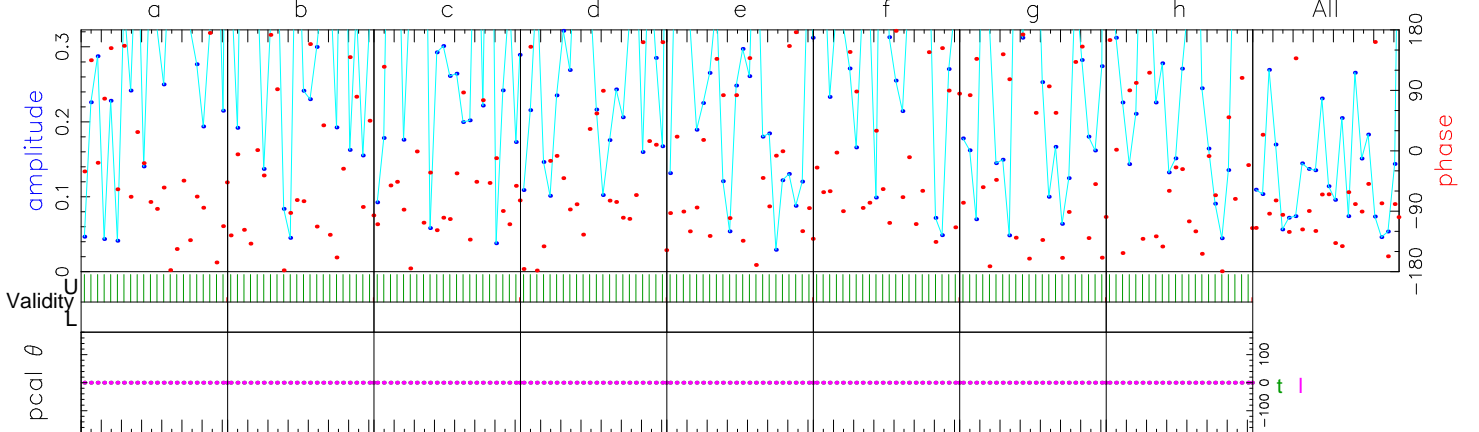
Group delay (usec)(sbd)	5.00038609872E+03	Apriori delay (usec)		5.00060709955E+03	Resid mbdelay (usec)		-2.25083E-03	+/- 1.9E-04			
Sband delay (usec)	5.00038029730E+03	Apriori clock (usec)		2.8460262E+01	Resid sbdelay (usec)		-2.26802E-01	+/- 1.5E-03			
Phase delay (usec)	5.00060709776E+03	Apriori clockrate (us/s)		5.5147201E-07	Resid phdelay (usec)		-1.79563E-06	+/- 6.4E-07			
Delay rate (us/s)	1.71656550960E+00	Apriori rate (us/s)		1.71657564248E+00	Resid rate (us/s)		-1.01329E-05	+/- 2.6E-09			
Total phase (deg)	144.3		Apriori accel (us/s/s)		-2.90278063432E-05	Resid phase (deg)		-55.7	+/- 19.8		
	RMS	Theor.	Amplitude	0.147 +/- 0.025	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
ph/seg (deg)	57.6	47.4	Search (2048X32)	0.100	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-1.000	1.000		
amp/seg (%)	82.3	82.8	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	22.4	28.0	Inc. seg. avg.	0.143	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011		
amp/frq (%)	28.6	48.8	Inc. frq. avg.	0.140	Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

t: az 65.6 el 48.4 pa -81.7 l: az 298.6 el 32.1 pa 68.3 u, v (fr/asec) -12840.942 -1986.563 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tl..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tl.W.177.12DSJB



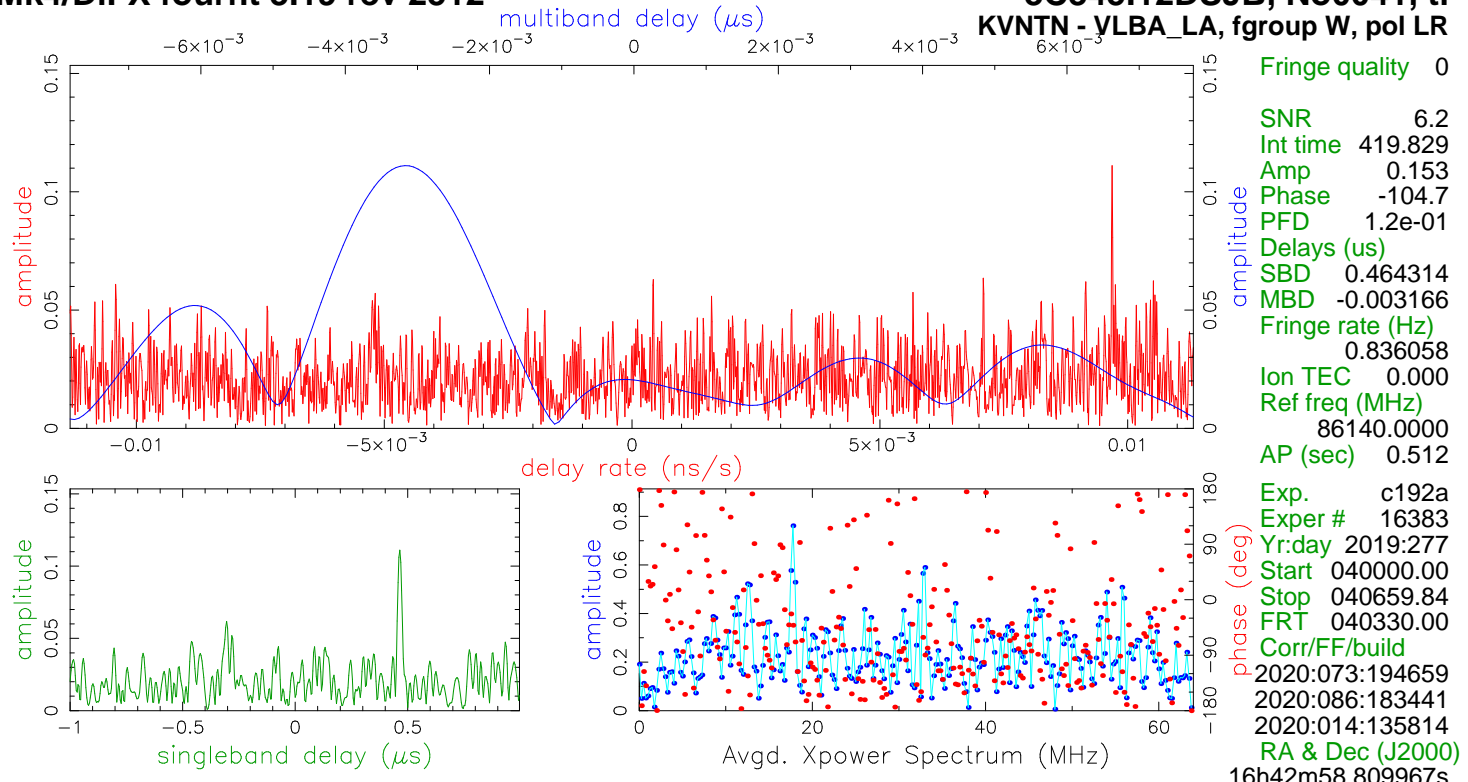
Fringe quality 0
SNR 6.0
Int time 419.829
Amp 0.108
Phase -93.1
PFD 3.6e-01
Delays (us)
SBD -0.572451
MBD 0.002038
Fringe rate (Hz)
0.041724
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183437
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

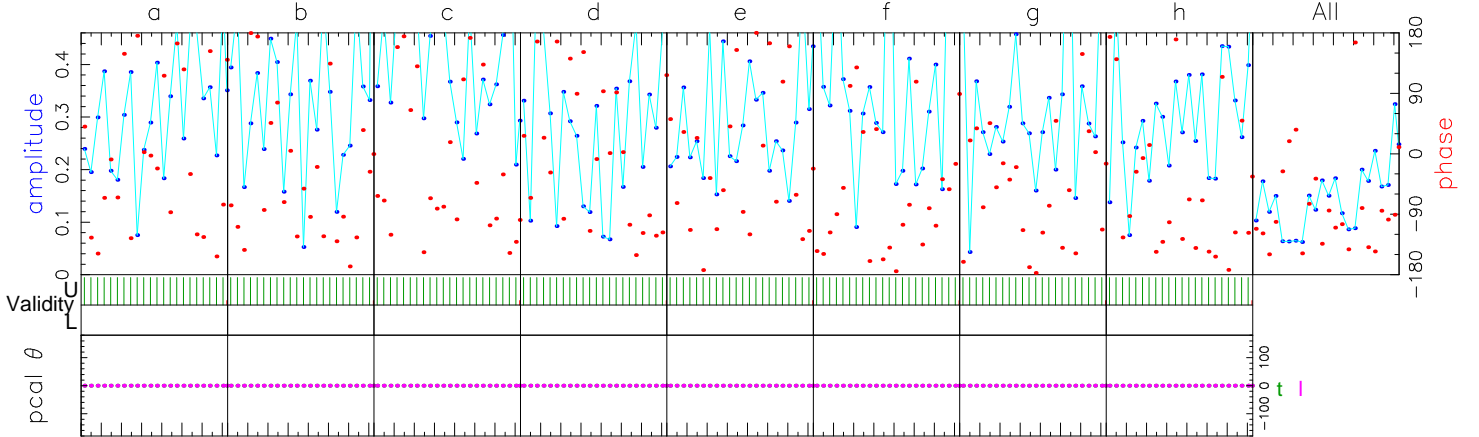


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	86140.00	All
t	63000	63000	63000	63000	63000	63000	63000	63000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
t:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		5.00003101248E+03			5.00060709955E+03				2.03792E-03	+/- 1.8E-04
Sband delay (usec)		5.00003464805E+03			2.8460262E+01				-5.72451E-01	+/- 1.4E-03
Phase delay (usec)		5.00060709655E+03			5.5147201E-07				-3.00250E-06	+/- 6.1E-07
Delay rate (us/s)		1.71657612686E+00			1.71657564248E+00				4.84373E-07	+/- 2.5E-09
Total phase (deg)			106.9		-2.90278063432E-05				-93.1	+/- 19.0
pcal mode:					MANUAL, MANUAL					
pcal rate:					0.000E+00, 0.000E+00 (us/s)					
Bits/sample:					2x2					
Sample rate(MISamp/s):					128					
Data rate(Mb/s):					2048					
pcal period (AP's)					5, 5					
sb window (us)										-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) 51.1 45.6 Search (2048X32) 0.102 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 72.3 79.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 33.1 26.9 Inc. seg. avg. 0.103 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 43.6 47.0 Inc. frq. avg. 0.106 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 t: az 65.6 el 48.4 pa -81.7 l: az 298.6 el 32.1 pa 68.3 u, v (fr/asec) -12840.942 -1986.563 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tl..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tl.W.198.12DSJB

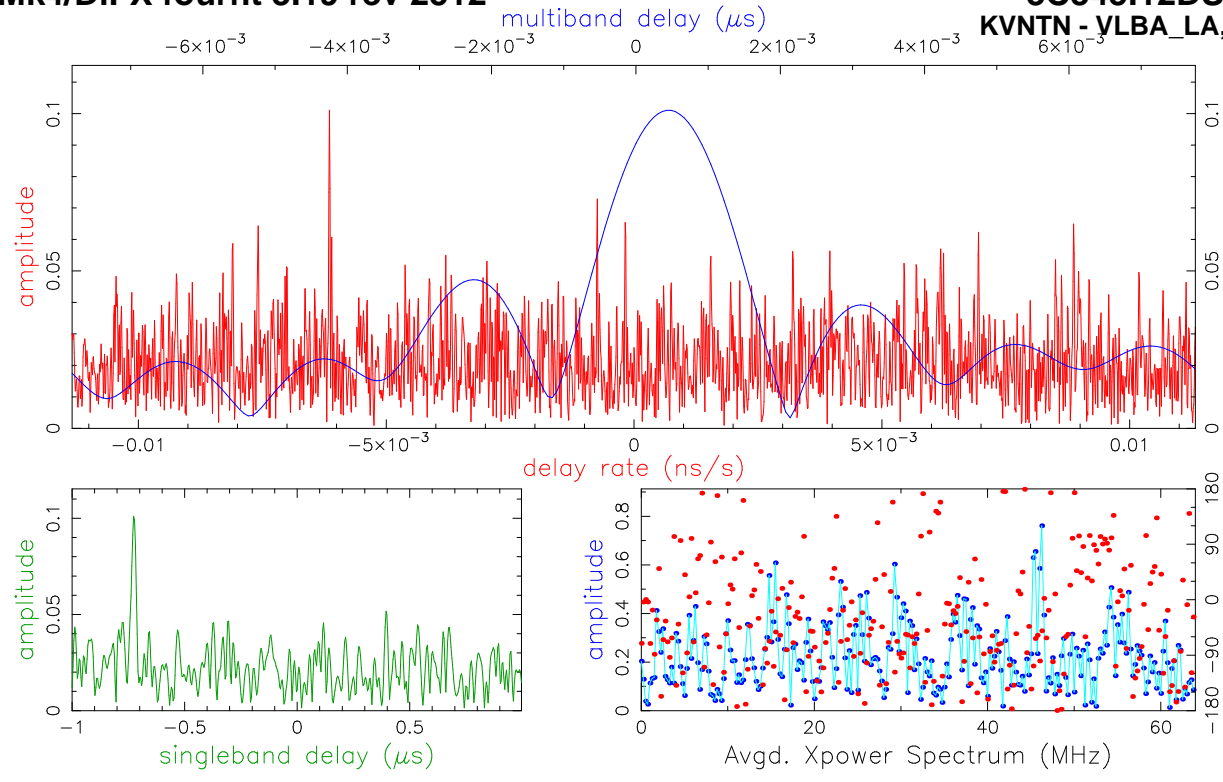


Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	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		
t	63000	63000	63000	63000	63000	63000	63000	63000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
t:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		5.00107268346E+03		Apriori delay (usec)	5.00060709955E+03		Resid mbdelay (usec)	-3.16609E-03	+/-	1.7E-04
Sband delay (usec)		5.00107141355E+03		Apriori clock (usec)	2.8460262E+01		Resid sbdelay (usec)	4.64314E-01	+/-	1.4E-03
Phase delay (usec)		5.00060709618E+03		Apriori clockrate (us/s)	5.5147201E-07		Resid phdelay (usec)	-3.37599E-06	+/-	5.9E-07
Delay rate (us/s)		1.71658534829E+00		Apriori rate (us/s)	1.71657564248E+00		Resid rate (us/s)	9.70580E-06	+/-	2.4E-09
Total phase (deg)			95.3	Apriori accel (us/s/s)	-2.90278063432E-05		Resid phase (deg)	-104.7	+/-	18.4

	RMS	Theor.	Amplitude	0.153 +/- 0.025	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	55.3	44.1	Search (2048X32)	0.105	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	64.1	77.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	21.7	26.0	Inc. seg. avg.	0.154	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	32.9	45.4	Inc. frq. avg.	0.147	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
t: az 65.6 el 48.4 pa -81.7			l: az 298.6 el 32.1 pa 68.3		u, v (fr/asec) -12840.942 -1986.563	ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva			Input file: /Exps/c192a/v1_PV/1234/No0041/tl..12DSJB		Output file: /Exps/c192a/v1_PV/1234/No0041/tl.W.214.12DSJB	simultaneous interpolator

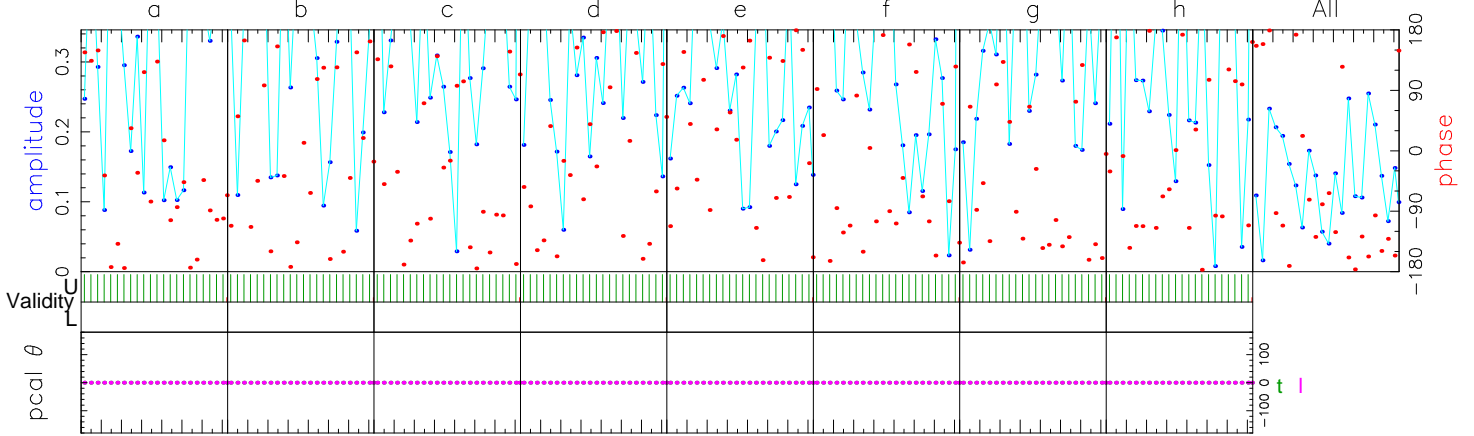


Fringe quality 0

SNR 5.7
Int time 419.829
Amp 0.115
Phase -141.2
PFD 9.4e-01
Delays (us)
SBD -0.725146
MBD 0.000490
Fringe rate (Hz)
-0.530549
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

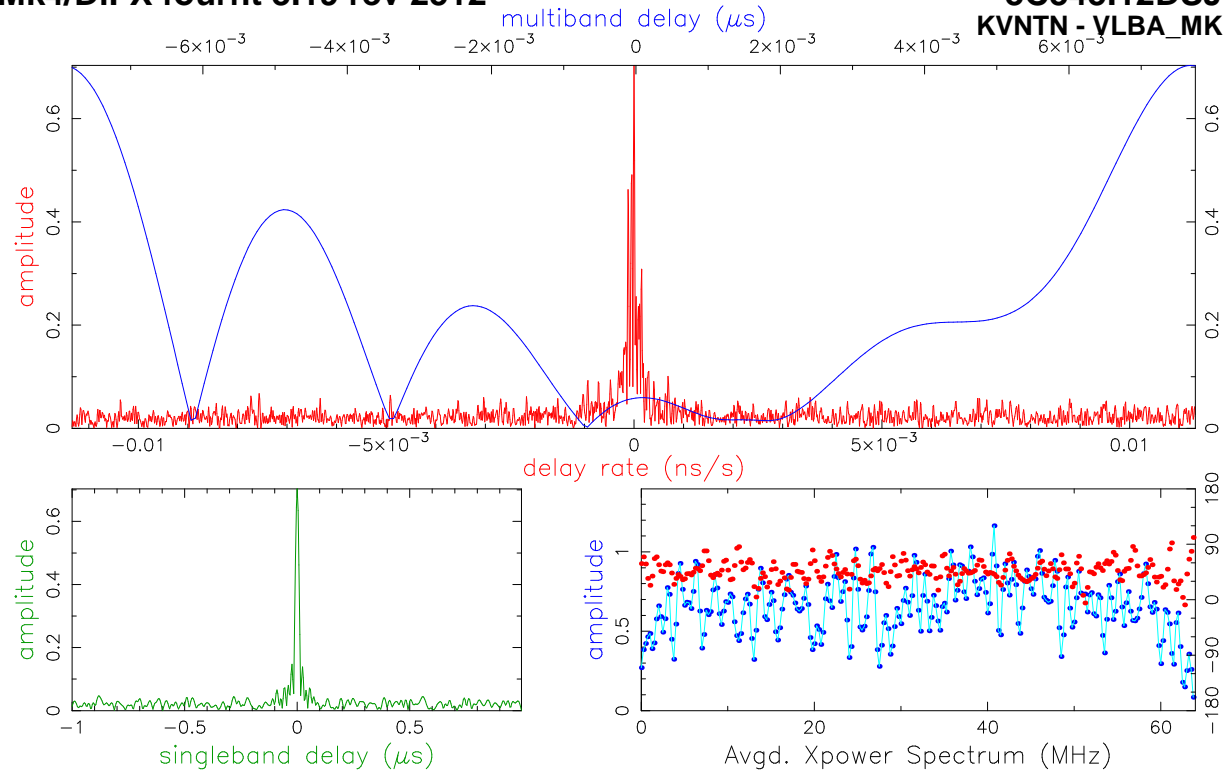
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183445
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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		
t	63000	63000	63000	63000	63000	63000	63000	63000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
t:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		4.99988883961E+03			5.00060709955E+03				4.90057E-04	+/- 1.9E-04
Sband delay (usec)		4.99988195380E+03			2.8460262E+01				-7.25146E-01	+/- 1.5E-03
Phase delay (usec)		5.00060709500E+03			5.5147201E-07				-4.55474E-06	+/- 6.5E-07
Delay rate (us/s)		1.71656948334E+00			1.71657564248E+00				-6.15914E-06	+/- 2.7E-09
Total phase (deg)			58.8		-2.90278063432E-05				-141.2	+/- 20.1
pcal mode:					MANUAL, MANUAL					
pcal rate:					0.000E+00, 0.000E+00 (us/s)					
Bits/sample:					2x2					
Sample rate (MSamp/s):					128					
Data rate (Mb/s):					2048					
pcal period (AP's)					5, 5					
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 56.7 48.2 Search (2048X32) 0.096 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 73.4 84.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 13.4 28.4 Inc. seg. avg. 0.115 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.9 49.6 Inc. frq. avg. 0.103 Sample rate (MSamp/s): 128 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 t: az 65.6 el 48.4 pa -81.7 l: az 298.6 el 32.1 pa 68.3 u, v (fr/asec) -12840.942 -1986.563 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tl..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tl.W.231.12DSJB

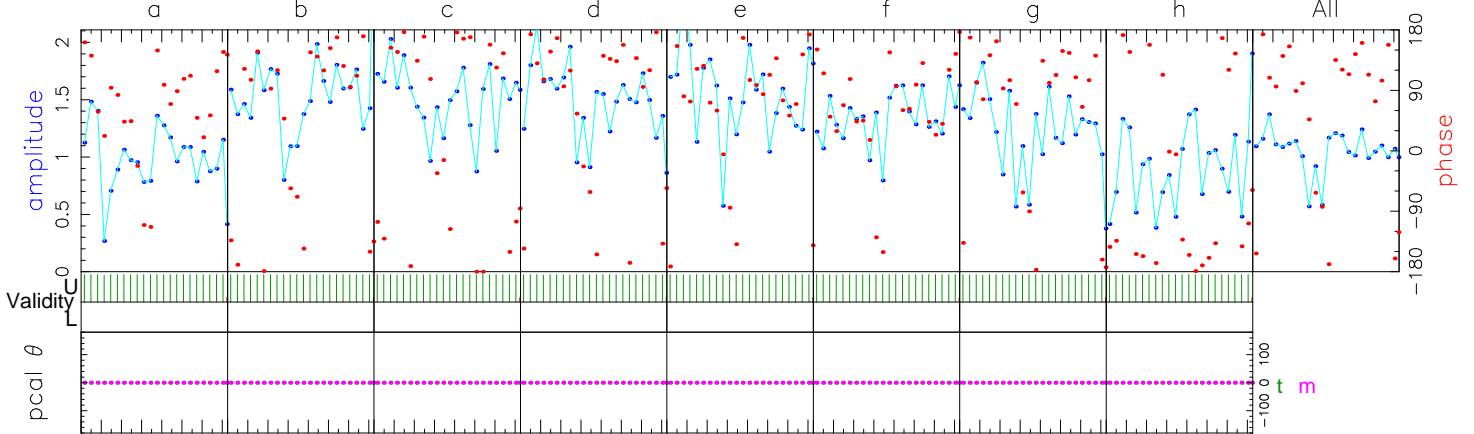


Fringe quality 4

SNR 39.4
Int time 419.111
Amp 0.703
Phase 136.1
PFD 0.0e+00
Delays (us)
SBD -0.000179
MBD -0.007951
Fringe rate (Hz) 0.000413
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

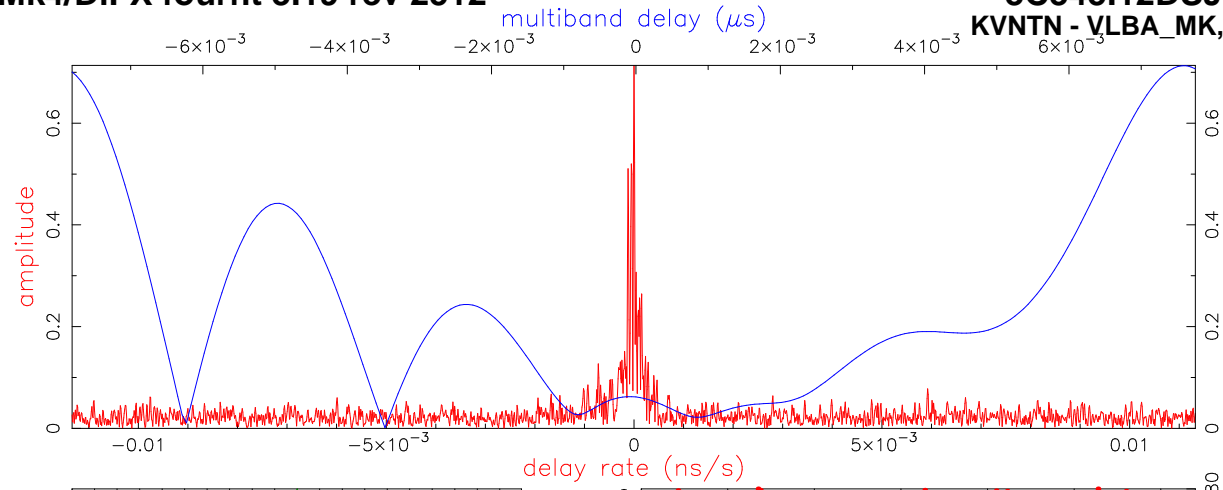
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183434
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

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		
t	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
t:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-2.23276541699E+03									
Sband delay (usec)	-2.23275764446E+03									
Phase delay (usec)	-2.23275746157E+03									
Delay rate (us/s)	1.28656033381E+00									
Total phase (deg)			93.6							
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										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

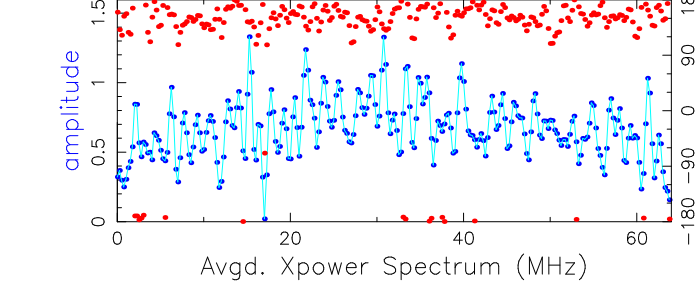
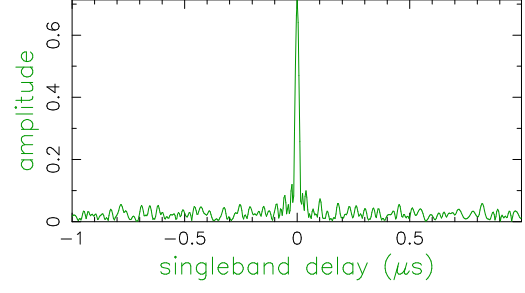
ph/seg (deg) 61.1 7.0 Search (2048X32) 0.661 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 56.2 12.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 41.7 4.1 Inc. seg. avg. 1.048 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 30.2 7.2 Inc. frq. avg. 0.845 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
t: az 65.6 el 48.4 pa -81.7 m: az 317.4 el 59.9 pa 123.3 u,v (fr/asec) -9536.665 3317.239 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tm..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tm.W.187.12DSJB



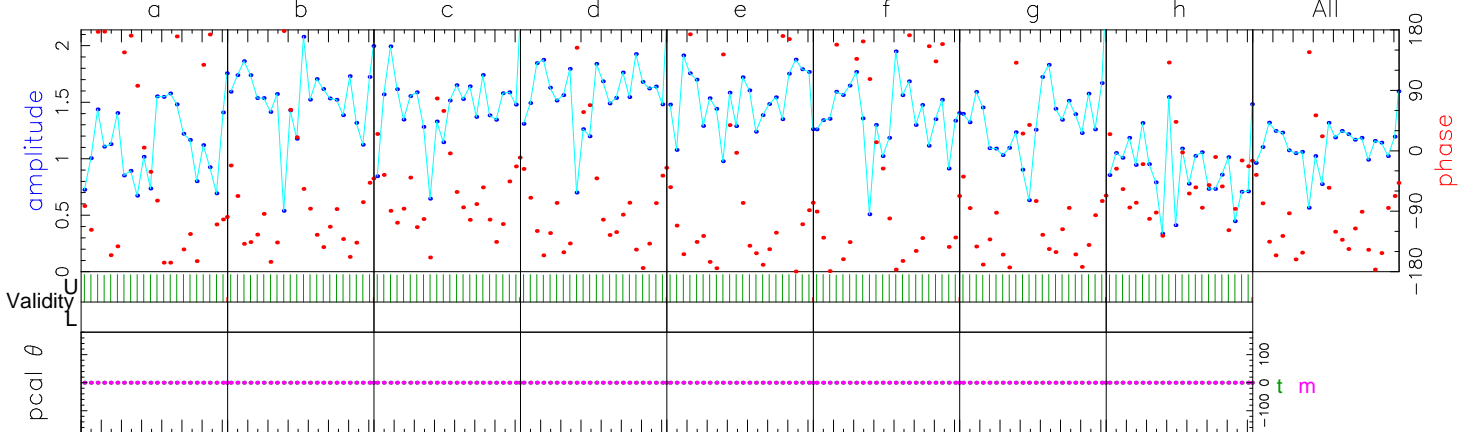
Fringe quality 4

SNR 40.0
Int time 419.112
Amp 0.714
Phase -117.9
PFD 0.0e+00
Delays (us)
SBD -0.000364
MBD -0.008049
Fringe rate (Hz) 0.000458
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183438
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		
t	63000	63000	63000	63000	63000	63000	63000	63000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.23276551493E+03				-2.23275746596E+03				Resid mbdelay (usec)	-8.04897E-03 +/- 2.7E-05
Sband delay (usec)	-2.23275783021E+03				2.5144247E+01				Resid sbdelay (usec)	-3.64250E-04 +/- 2.2E-04
Phase delay (usec)	-2.23275746976E+03				2.0869229E-07				Resid phdelay (usec)	-3.80106E-06 +/- 9.2E-08
Delay rate (us/s)	1.28656033434E+00				1.28656032902E+00				Resid rate (us/s)	5.32127E-09 +/- 3.8E-10
Total phase (deg)			-160.4		2.71316868450E-05				Resid phase (deg)	-117.9 +/- 2.9

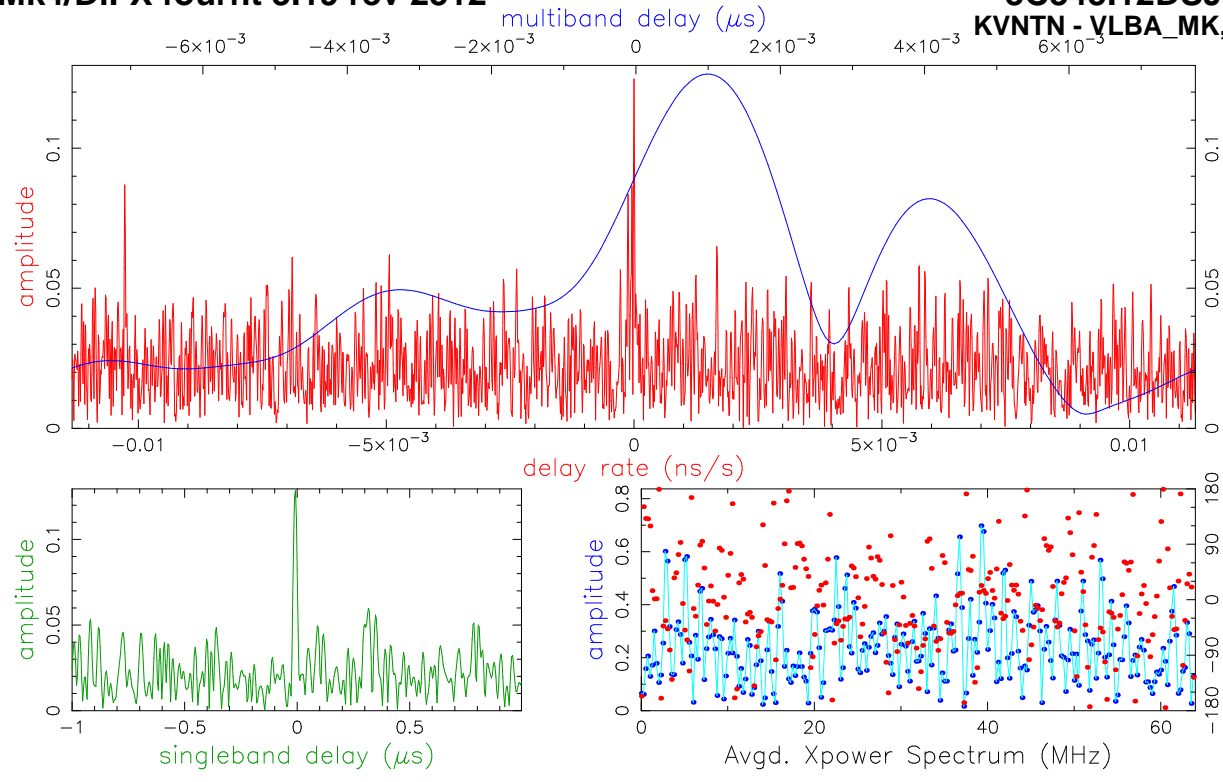
ph/seg (deg) 62.7 6.9
amp/seg (%) 60.2 12.0
ph/frq (deg) 42.7 4.1
amp/frq (%) 28.6 7.1

RMS Theor. Amplitude 0.714 +/- 0.018
Search (2048X32) 0.654
Interp. 0.000
Inc. seg. avg. 1.098
Inc. frq. avg. 0.859

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

t: az 65.6 el 48.4 pa -81.7 m: az 317.4 el 59.9 pa 123.3 u,v (fr/asec) -9536.665 3317.239 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tm..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tm.W.205.12DSJB

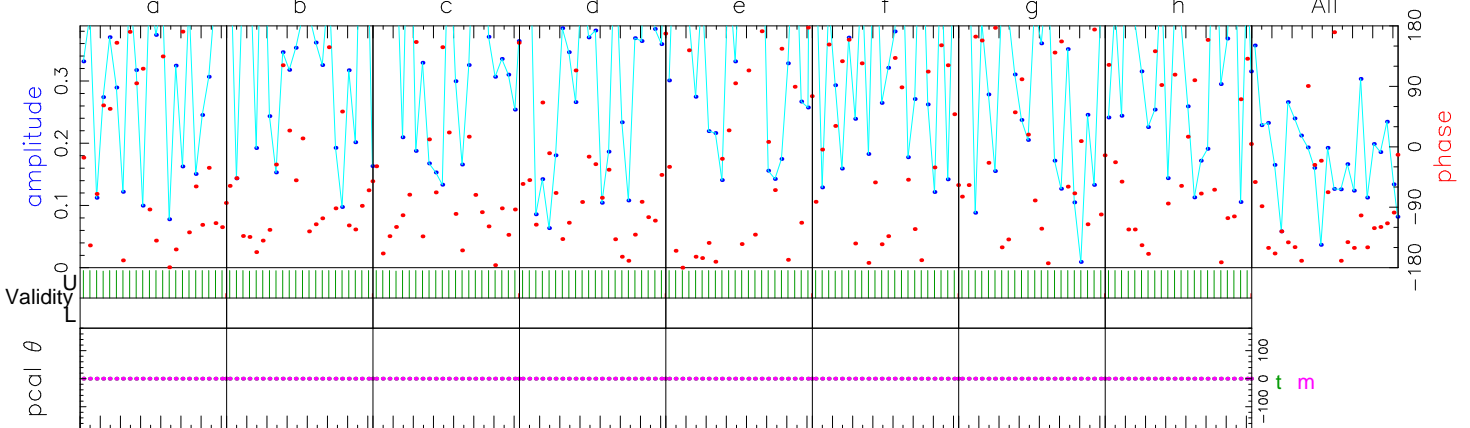


Fringe quality 0

SNR 7.3
Int time 419.112
Amp 0.130
Phase -122.4
PFD 1.3e-04
Delays (us)
SBD -0.009026
MBD 0.001192
Fringe rate (Hz) 0.000306
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183442
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



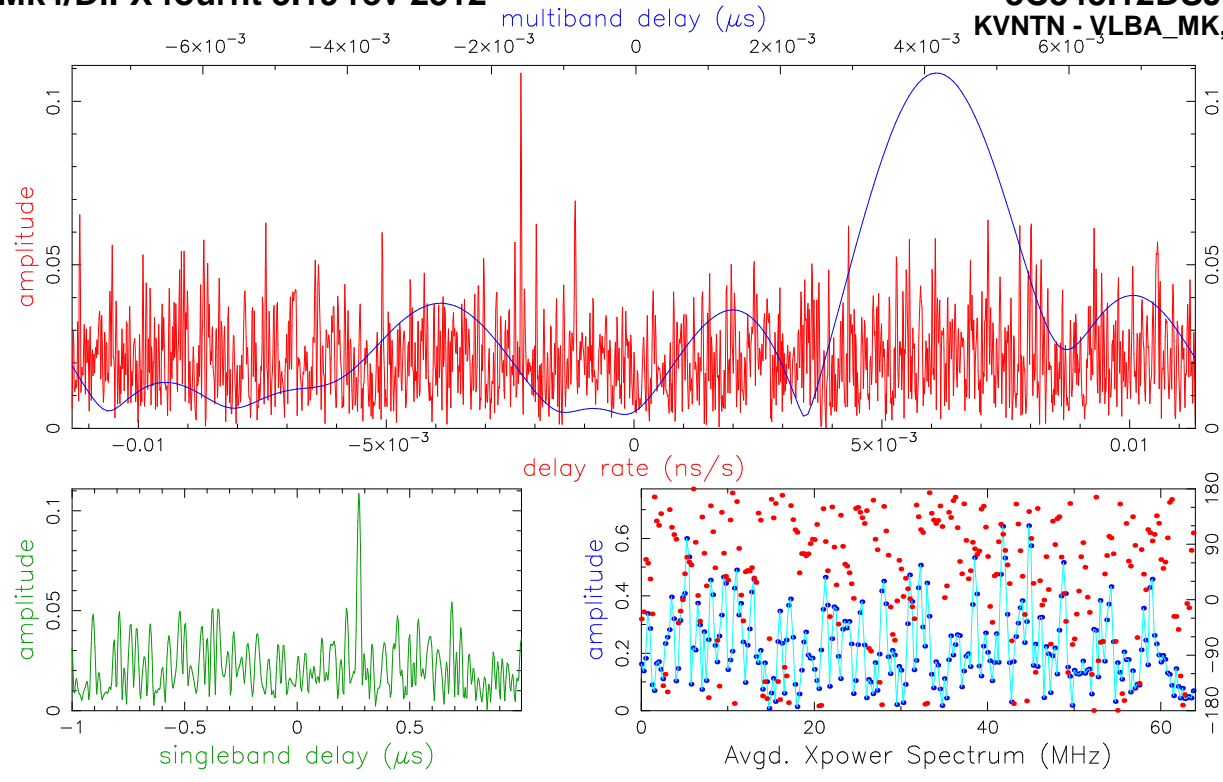
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
t	63000	63000	63000	63000	63000	63000	63000	63000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-2.23277189877E+03	Apriori delay (usec)	-2.23275746596E+03	Resid mbdelay (usec)	1.19219E-03	+/-	1.5E-04
Sband delay (usec)	-2.23276649221E+03	Apriori clock (usec)	2.5144247E+01	Resid sbdelay (usec)	-9.02625E-03	+/-	1.2E-03
Phase delay (usec)	-2.23275746991E+03	Apriori clockrate (us/s)	2.0869229E-07	Resid phdelay (usec)	-3.94862E-06	+/-	5.1E-07
Delay rate (us/s)	1.28656033256E+00	Apriori rate (us/s)	1.28656032902E+00	Resid rate (us/s)	3.54846E-09	+/-	2.1E-09
Total phase (deg)	-164.9	Apriori accel (us/s/s)	2.71316868450E-05	Resid phase (deg)	-122.4	+/-	15.8

ph/seg (deg)	55.1	Theor.	37.9	Amplitude	0.130 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	70.6		66.1	Search (2048X32)	0.125	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	45.8		22.3	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	42.0		39.0	Inc. seg. avg.	0.151	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.145	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

t: az 65.6 el 48.4 pa -81.7 m: az 317.4 el 59.9 pa 123.3 u,v (fr/asec) -9536.665 3317.239 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tm..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tm.W.222.12DSJB

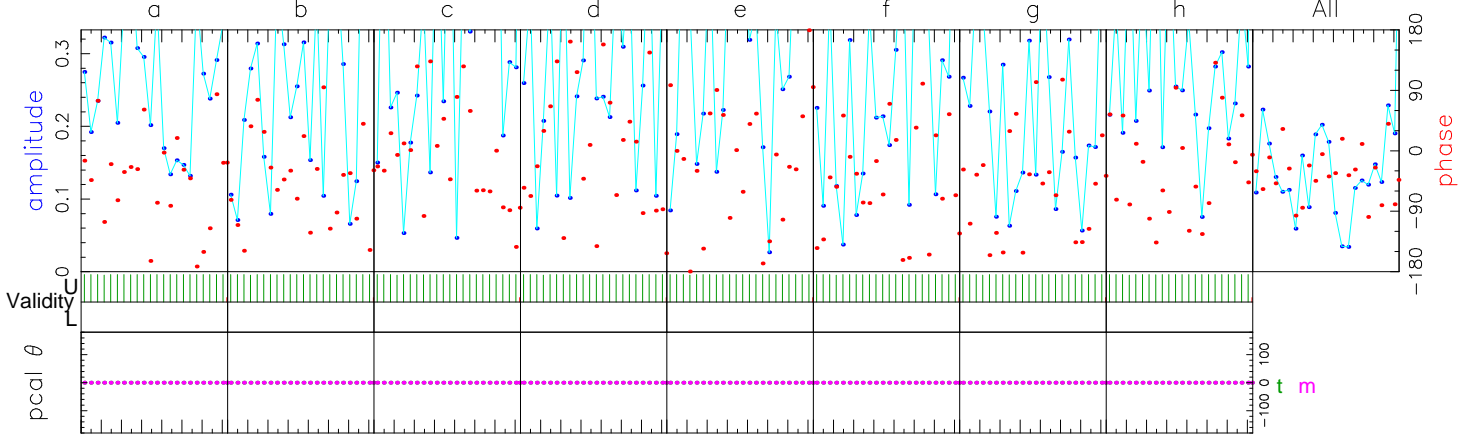


Fringe quality 0

SNR 6.1
Int time 419.111
Amp 0.111
Phase -34.1
PFD 2.3e-01
Delays (us)
SBD 0.274352
MBD 0.004197
Fringe rate (Hz)
-0.196318
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183448
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



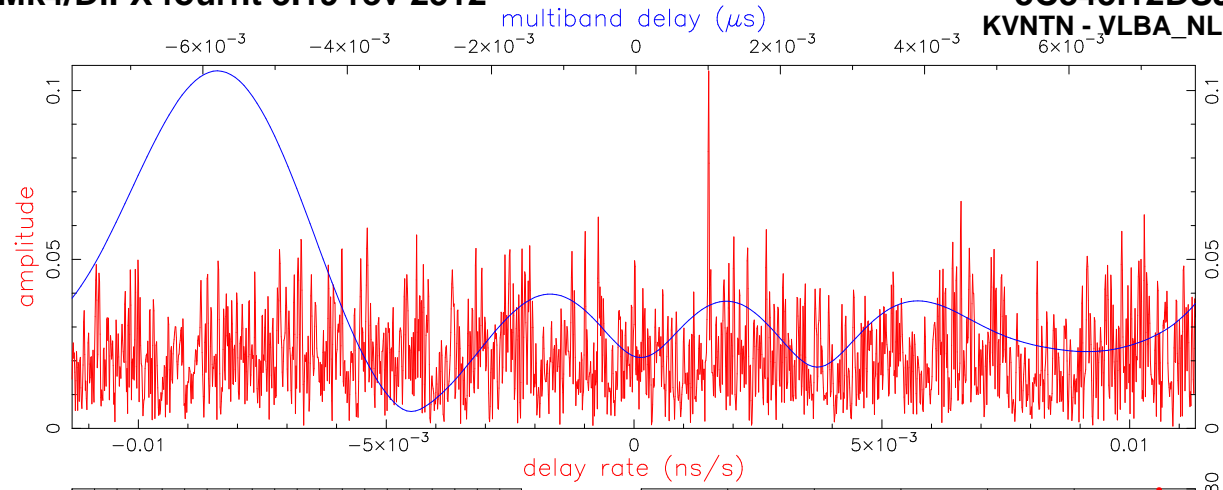
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-39.5	-44.2	-27.1	-32.8	2.5	-50.4	-41.6	-47.3	Phase	-34.1
	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	370.2	312.4	31.7	6.9	155.3	54.6	373.2	427.2	Sbd box	327.2
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
t	63000	63000	63000	63000	63000	63000	63000	63000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-2.23248764419E+03	Apriori delay (usec)	-2.23275746596E+03	Resid mbdelay (usec)	4.19677E-03	+/-	1.8E-04
Sband delay (usec)	-2.23248311446E+03	Apriori clock (usec)	2.5144247E+01	Resid sbdelay (usec)	2.74352E-01	+/-	1.4E-03
Phase delay (usec)	-2.23275746706E+03	Apriori clockrate (us/s)	2.0869229E-07	Resid phdelay (usec)	-1.10097E-06	+/-	6.0E-07
Delay rate (us/s)	1.28655804996E+00	Apriori rate (us/s)	1.28656032902E+00	Resid rate (us/s)	-2.27906E-06	+/-	2.5E-09
Total phase (deg)	-76.6	Apriori accel (us/s/s)	2.71316868450E-05	Resid phase (deg)	-34.1	+/-	18.8

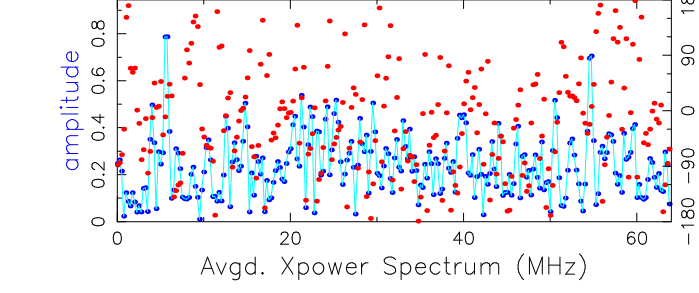
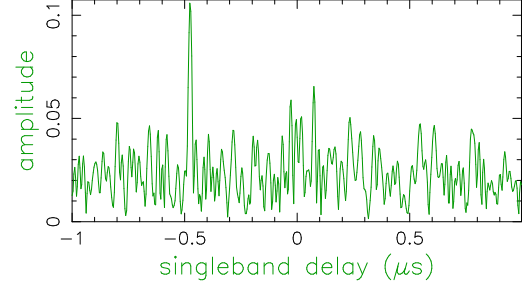
ph/seg (deg)	38.1	Theor.	45.0	Amplitude	0.111 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	61.3		78.5	Search (2048X32)	0.104	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	18.3		26.5	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	29.3		46.3	Inc. seg. avg.	0.106	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.104	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

t: az 65.6 el 48.4 pa -81.7 m: az 317.4 el 59.9 pa 123.3 u,v (fr/asec) -9536.665 3317.239 simultaneous interpolator

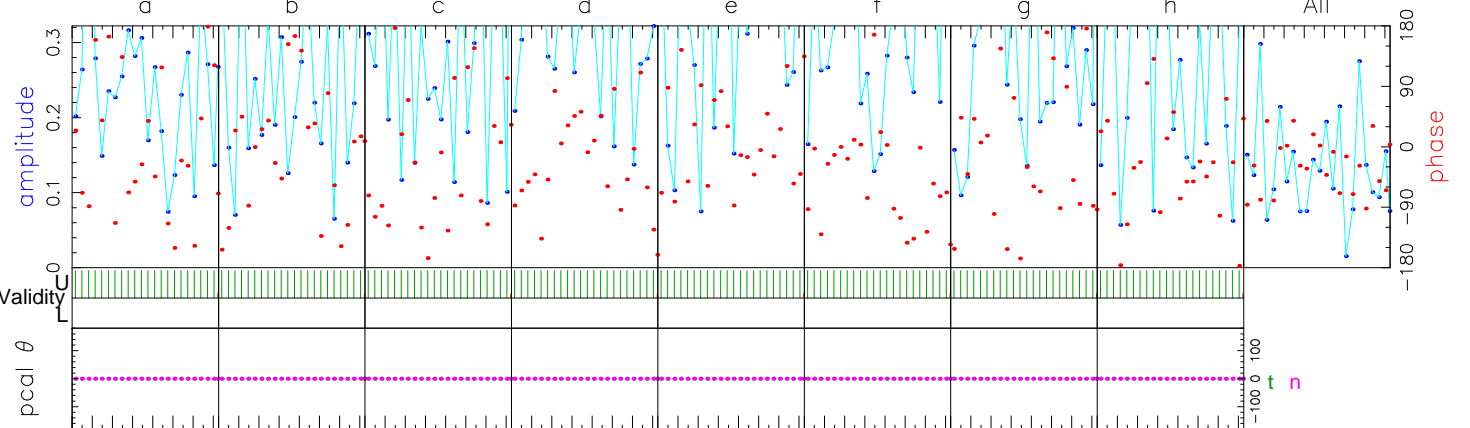
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tm..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tm.W.240.12DSJB



Fringe quality 0
SNR 6.0
Int time 419.831
Amp 0.107
Phase -35.0
PFD 4.5e-01
Delays (us)
SBD -0.475397
MBD -0.005786
Fringe rate (Hz) 0.129873
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build 2020:073:194659
2020:086:183433
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

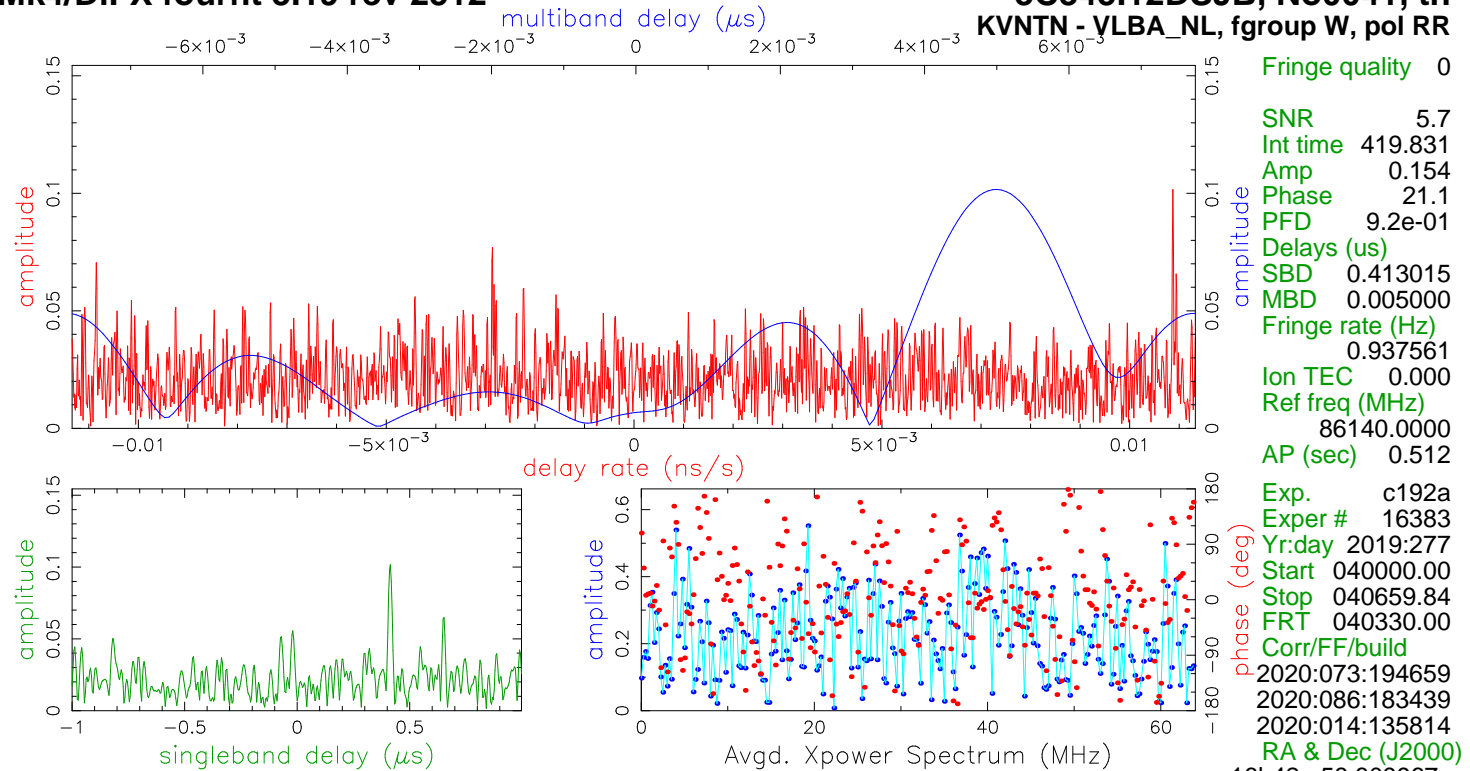


Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec

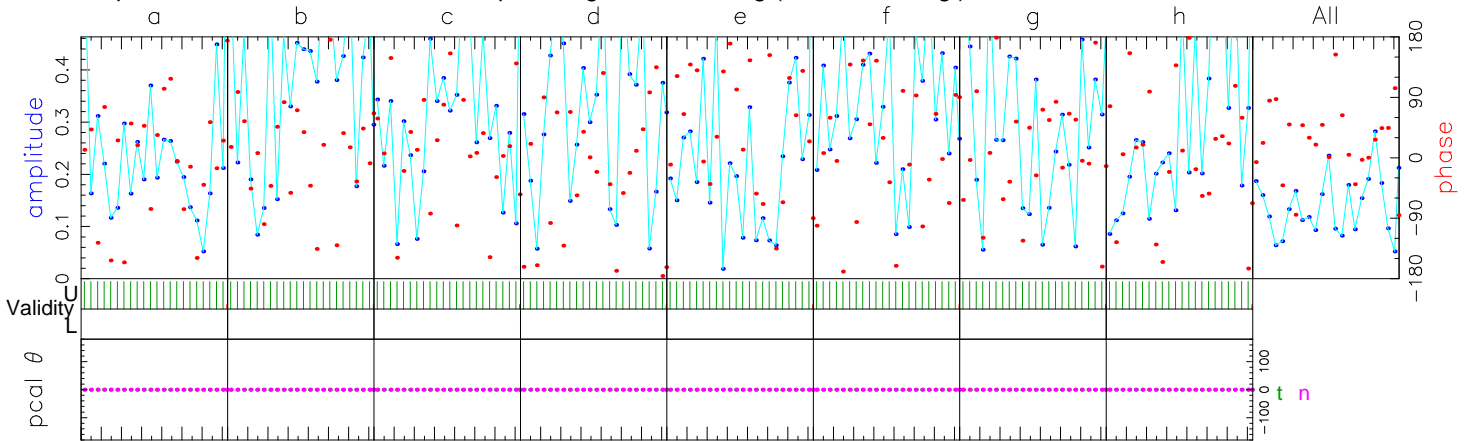


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
t:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
tn	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		7.22144340086E+03			7.22191793665E+03				Resid mbdelay (usec)	-5.78579E-03 +/- 1.8E-04
Sband delay (usec)		7.22144254015E+03			1.2280598E+03				Resid sbdelay (usec)	-4.75397E-01 +/- 1.4E-03
Phase delay (usec)		7.22191793552E+03			6.5776486E-08				Resid phdelay (usec)	-1.12928E-06 +/- 6.2E-07
Delay rate (us/s)		1.66591727905E+00			1.66591577135E+00				Resid rate (us/s)	1.50769E-06 +/- 2.6E-09
Total phase (deg)		-12.4			-4.68599565440E-05				Resid phase (deg)	-35.0 +/- 19.2

ph/seg (deg) 40.8 46.0
amp/seg (%) 68.7 80.3
ph/frq (deg) 37.9 27.1
amp/frq (%) 54.1 47.3
RMS Theor. Amplitude 0.107 +/- 0.018
Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MISamp/s): 128
Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite
sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00
t: az 65.6 el 48.4 pa -81.7 n: az 301.9 el 25.2 pa 55.5 u,v (fr/asec) -12495.308 -3711.314 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tn..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tn.W.184.12DSJB



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

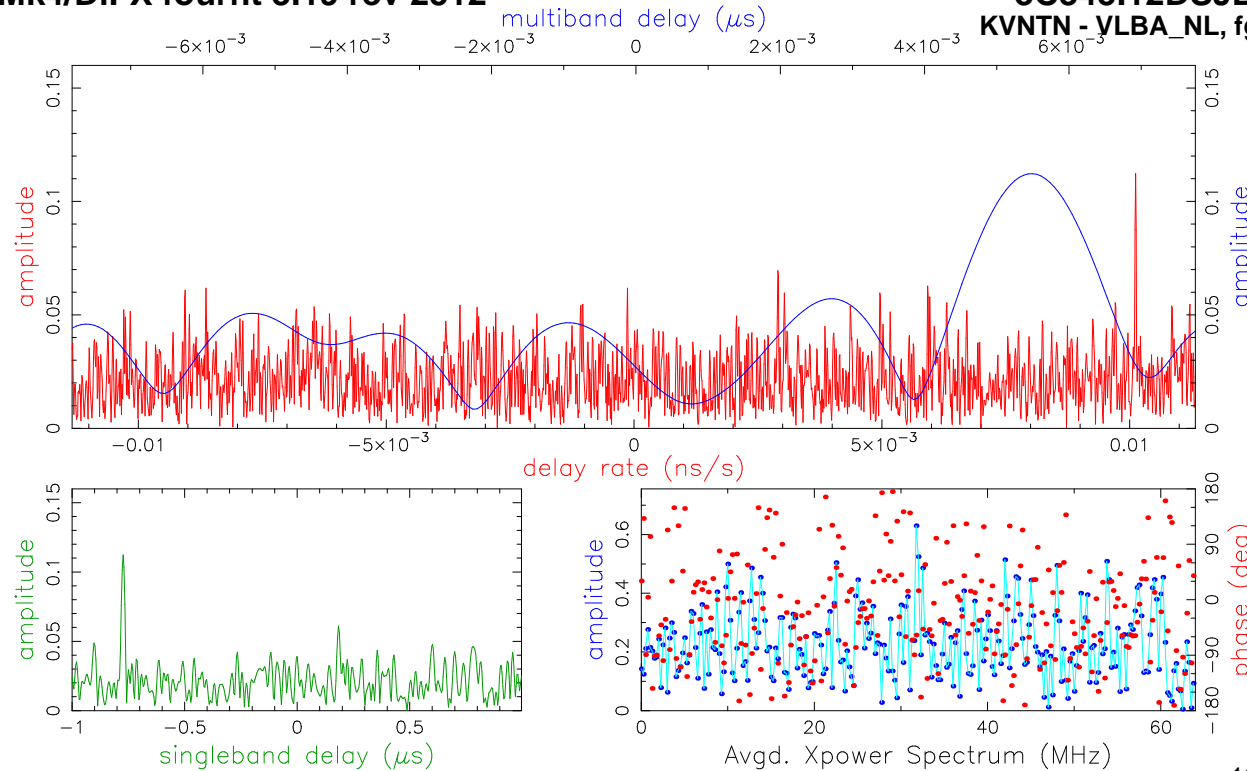


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
14.1	15.3	28.9	13.5	70.3	28.5	-3.9	21.6	21.6	Phase	21.1
0.1	0.3	0.2	0.1	0.1	0.1	0.2	0.2	0.2	Ampl.	0.1
264.7	396.8	413.3	11.9	359.3	45.8	305.2	509.3	509.3	Sbd box	362.7
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
t	63000	63000	63000	63000	63000	63000	63000	63000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
tn	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	7.22232918701E+03		Apriori delay (usec)		7.22191793665E+03		Resid mbdelay (usec)	5.00036E-03	+/-	1.9E-04
Sband delay (usec)	7.22233095190E+03		Apriori clock (usec)		1.2280598E+08		Resid sbdelay (usec)	4.13015E-01	+/-	1.5E-03
Phase delay (usec)	7.22191793733E+03		Apriori clockrate (us/s)		6.5776486E-08		Resid phdelay (usec)	6.80915E-07	+/-	6.5E-07
Delay rate (us/s)	1.66592665551E+00		Apriori rate (us/s)		1.66591577135E+00		Resid rate (us/s)	1.08842E-05	+/-	2.7E-09
Total phase (deg)		43.8	Apriori accel (us/s/s)		-4.68599565440E-05		Resid phase (deg)	21.1	+/-	20.0

ph/seg (deg) 52.5 48.0 Search (2048X32) 0.098 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 66.0 83.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 23.5 28.3 Inc. seg. avg. 0.155 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 35.5 49.4 Inc. frq. avg. 0.144 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 t: az 65.6 el 48.4 pa -81.7 n: az 301.9 el 25.2 pa 55.5 u,v (fr/asec) -12495.308 -3711.314 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tn..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tn.W.208.12DSJB

Mk4/DiFX fourfit 3.19 rev 2512

3C345.12DSJB, No0041, tn
KVNTN - VLBA_NL, fgroup W, pol LR

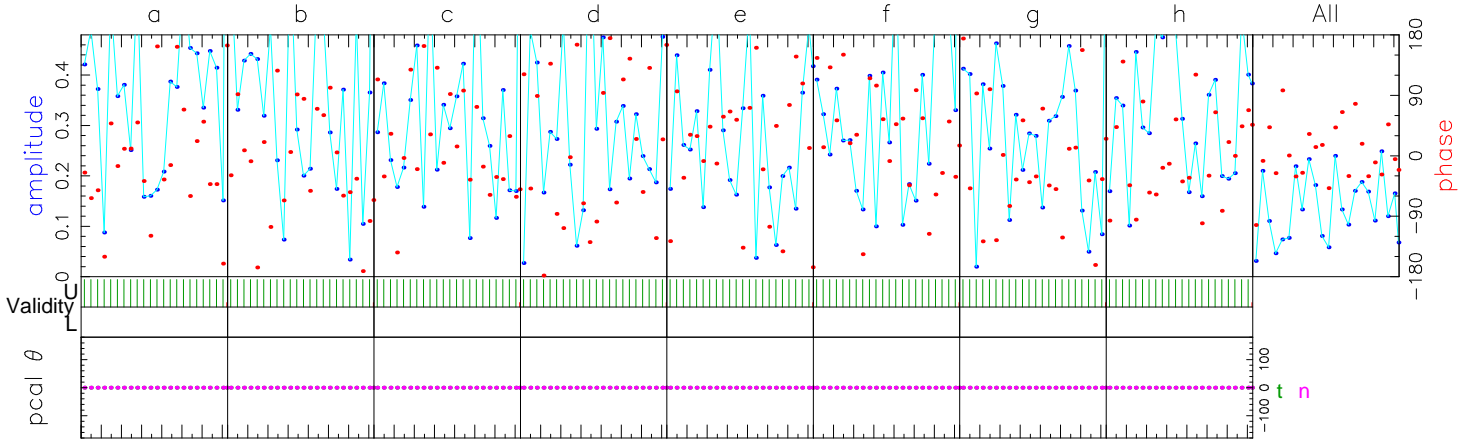


Fringe quality 0

SNR 6.3
Int time 419.831
Amp 0.160
Phase 8.0
PFD 8.1e-02
Delays (us)
SBD -0.773215
MBD 0.005480
Fringe rate (Hz)
0.873431
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183443
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



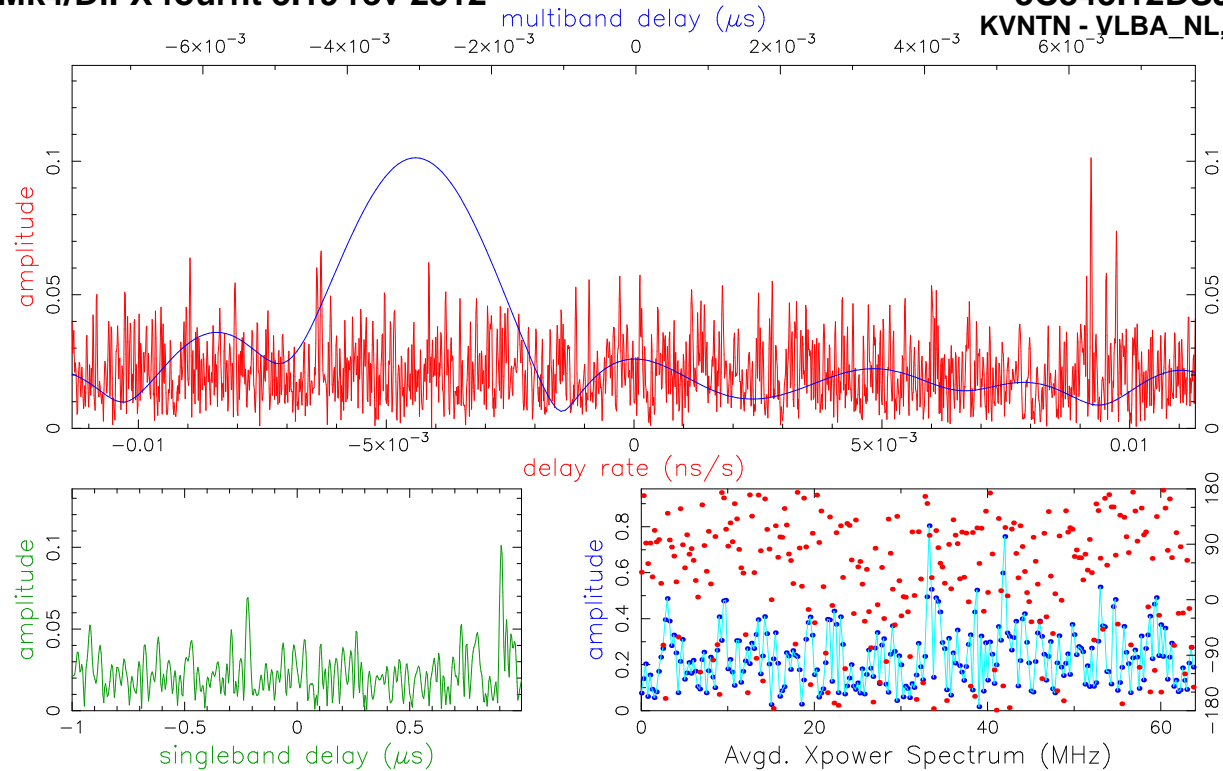
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0
t	63000	63000	63000	63000	63000	63000	63000	63000	63000	63000
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
t:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
tn	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
t	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		7.22114216671E+03				7.22191793665E+03			5.48006E-03	+/- 1.7E-04
Sband delay (usec)		7.22114472165E+03				1.2280598E+00			-7.73215E-01	+/- 1.4E-03
Phase delay (usec)		7.22191793691E+03				6.5776486E-08			2.58289E-07	+/- 5.9E-07
Delay rate (us/s)		1.66592591101E+00				1.66591577135E+00			1.01397E-05	+/- 2.4E-09
Total phase (deg)			30.7			-4.68599565440E-05			8.0	+/- 18.2
	RMS	Theor.	Amplitude	0.160 +/- 0.025		PCal mode: MANUAL, MANUAL			PC period (AP's) 5, 5	
ph/seg (deg)	45.1	43.7	Search (2048X32)	0.110		PCal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us)	-1.000 1.000
amp/seg (%)	62.5	76.2	Interp.	0.000		Bits/sample: 2x2			SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	60.1	25.8	Inc. seg. avg.	0.155		Sample rate(MISamp/s): 128			dr window (ns/s)	-0.011 0.011
amp/frq (%)	40.5	45.0	Inc. frq. avg.	0.169		Data rate(Mb/s): 2048			nlags: 256 t_cohere infinite	ion window (TEC) 0.00 0.00

t: az 65.6 el 48.4 pa -81.7 n: az 301.9 el 25.2 pa 55.5 u,v (fr/asec) -12495.308 -3711.314 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tn..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tn.W.226.12DSJB

Mk4/DiFX fourfit 3.19 rev 2512

3C345.12DSJB, No0041, tn
KVNTN - VLBA_NL, fgroup W, pol RL

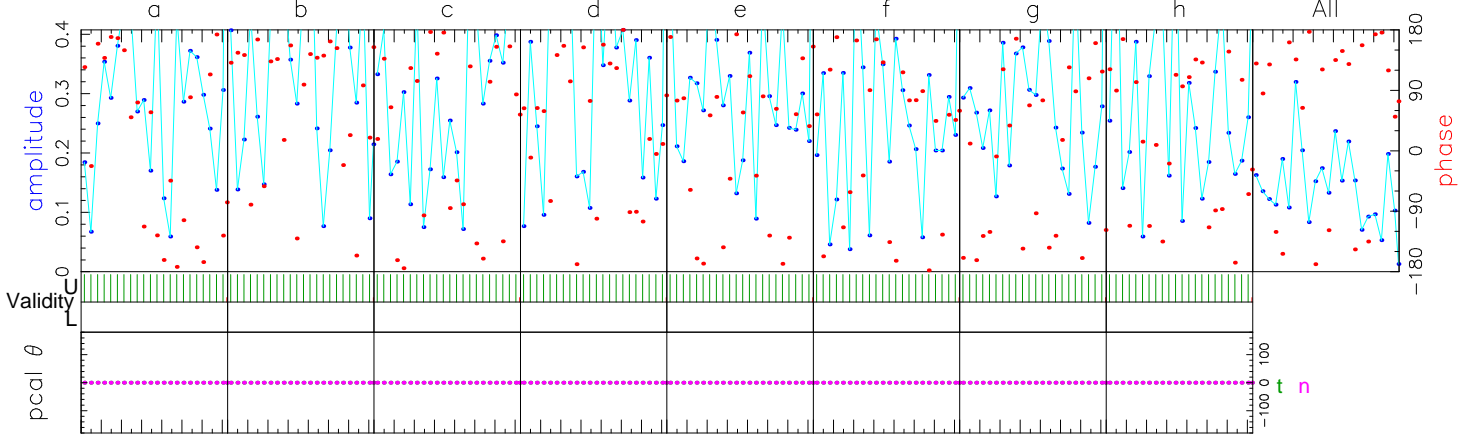


Fringe quality 0

SNR 5.7
Int time 419.831
Amp 0.136
Phase 148.0
PFD 9.5e-01
Delays (us)
SBD 0.907172
MBD -0.003003
Fringe rate (Hz) 0.795461
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

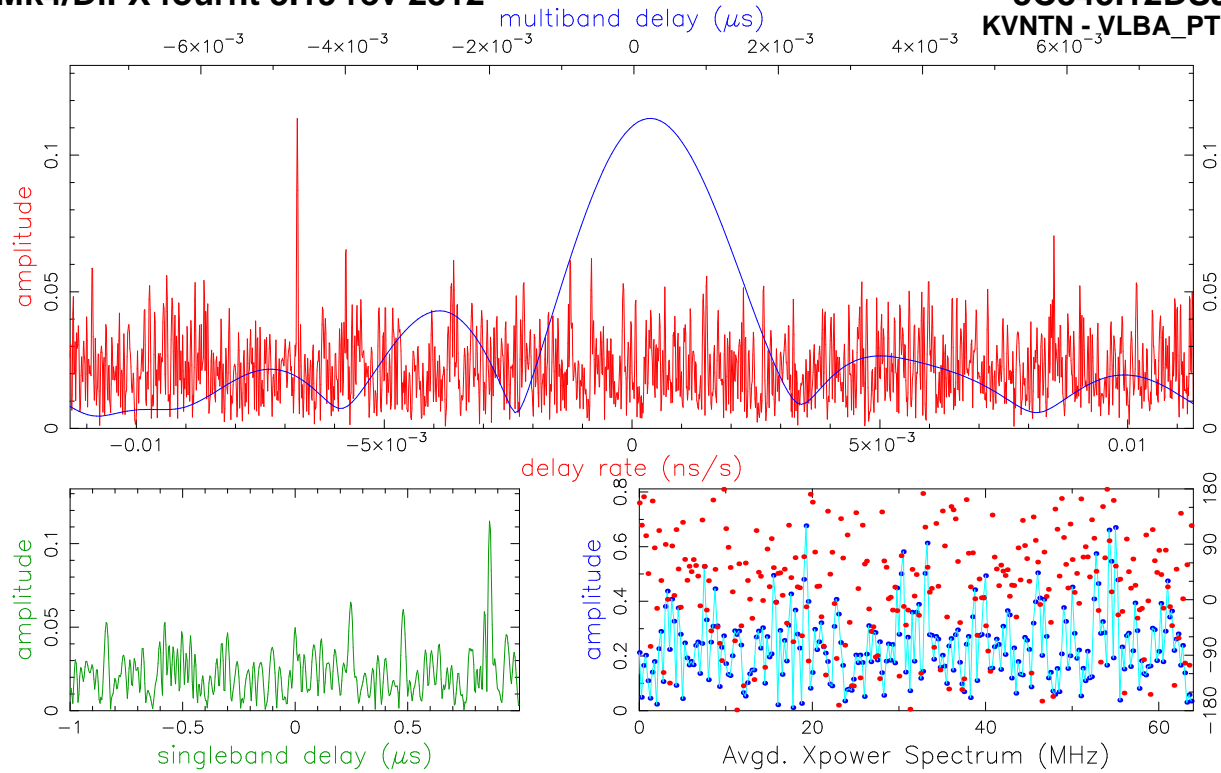
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183448
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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



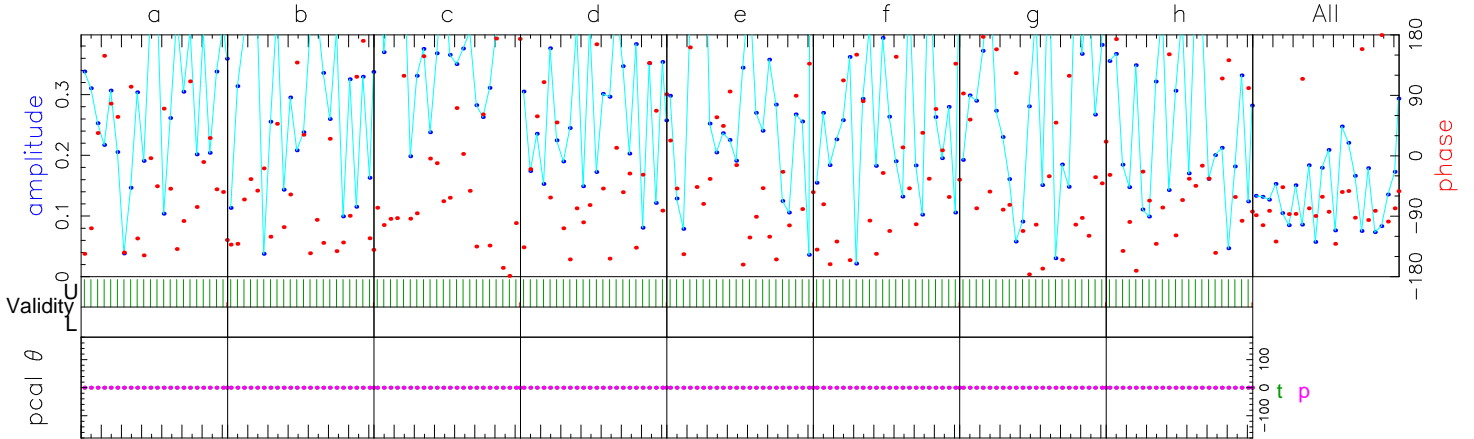
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0
t	63000	63000	63000	63000	63000	63000	63000	63000	63000	63000
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
t:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
tn	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
t	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	7.22282118361E+03		Apriori delay (usec)		7.22191793665E+03		Resid mbdelay (usec)		-3.00304E-03	+/- 1.9E-04
Sband delay (usec)	7.22282510840E+03		Apriori clock (usec)		1.2280598E+00		Resid sbdelay (usec)		9.07172E-01	+/- 1.5E-03
Phase delay (usec)	7.22191794142E+03		Apriori clockrate (us/s)		6.5776486E-08		Resid phdelay (usec)		4.77356E-06	+/- 6.5E-07
Delay rate (us/s)	1.66592500587E+00		Apriori rate (us/s)		1.66591577135E+00		Resid rate (us/s)		9.23452E-06	+/- 2.7E-09
Total phase (deg)	170.7		Apriori accel (us/s/s)		-4.68599565440E-05		Resid phase (deg)		148.0	+/- 20.1

ph/seg (deg) 51.8 48.2 Search (2048X32) 0.100 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 76.0 84.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 16.8 28.4 Inc. seg. avg. 0.146 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 32.4 49.6 Inc. frq. avg. 0.125 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 t: az 65.6 el 48.4 pa -81.7 n: az 301.9 el 25.2 pa 55.5 u,v (fr/asec) -12495.308 -3711.314 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tn..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tn.W.239.12DSJB simultaneous interpolator



Fringe quality 0
SNR 6.4
Int time 419.829
Amp 0.133
Phase -85.3
PFD 4.1e-02
Delays (us)
SBD 0.864295
MBD 0.000229
Fringe rate (Hz) -0.582224
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183442
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
	-57.0	-95.0	-103.2	-78.1	-74.3	-73.7	-89.9	-87.2	Phase	-85.3
	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	Ampl.	0.1
	219.0	204.1	478.2	20.1	127.7	44.5	405.0	73.8	Sbd box	478.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
tp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

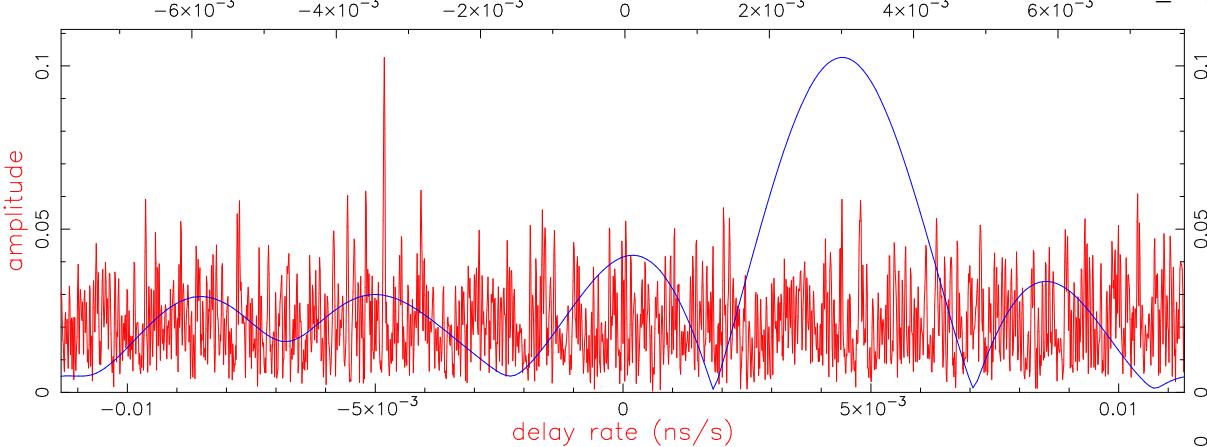
Group delay (usec)(sbd) 4.78899101020E+03 Apriori delay (usec) 4.78813140610E+03 Resid mbdelay (usec) 2.29100E-04 +/- 1.7E-04
Sband delay (usec) 4.78899570160E+03 Apriori clock (usec) 1.5795111E+01 Resid sbdelay (usec) 8.64295E-01 +/- 1.3E-03
Phase delay (usec) 4.78813140335E+03 Apriori clockrate (us/s) -3.8865937E-09 Resid phdelay (usec) -2.75049E-06 +/- 5.8E-07
Delay rate (us/s) 1.72552631403E+00 Apriori rate (us/s) 1.72553307307E+00 Resid rate (us/s) -6.75904E-06 +/- 2.4E-09
Total phase (deg) 30.3 Apriori accel (us/s/s) -2.64478236786E-05 Resid phase (deg) -85.3 +/- 17.9

RMS Theor. Amplitude 0.133 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 50.8 42.9 Search (2048X32) 0.105 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 51.7 74.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg) 16.1 25.3 Inc. seg. avg. 0.126 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
amp/frq (%) 24.4 44.2 Inc. frq. avg. 0.123 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

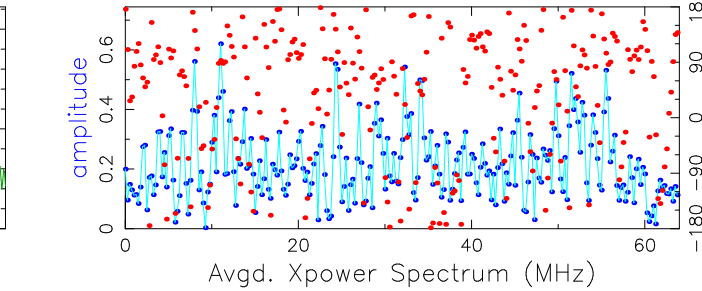
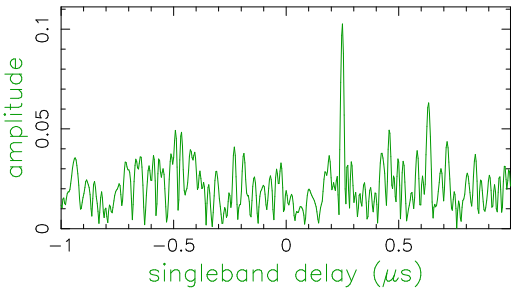
t: az 65.6 el 48.4 pa -81.7 p: az 298.8 el 32.7 pa 70.0 u, v (fr/asec) -12902.934 -1673.922 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tp..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tp.W.219.12DSJB

multiband delay (μ s)

Fringe quality 0

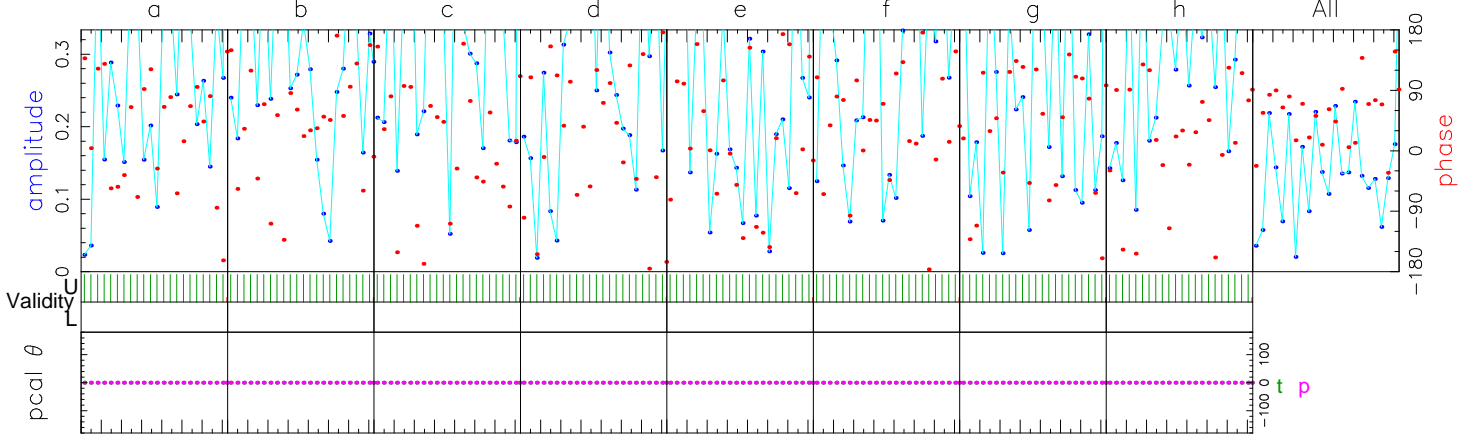


SNR 5.8
 Int time 419.829
 Amp 0.111
 Phase 60.6
 PFD 8.5e-01
 Delays (us)
 SBD 0.249125
 MBD 0.002984
 Fringe rate (Hz)
 -0.415193
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. c192a
 Yr:day # 16383
 Start 2019:277
 Stop 2020:073:194659
 FRT 040330.00
 Corr/FF/build
 2020:073:194659
 2020:086:183446
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

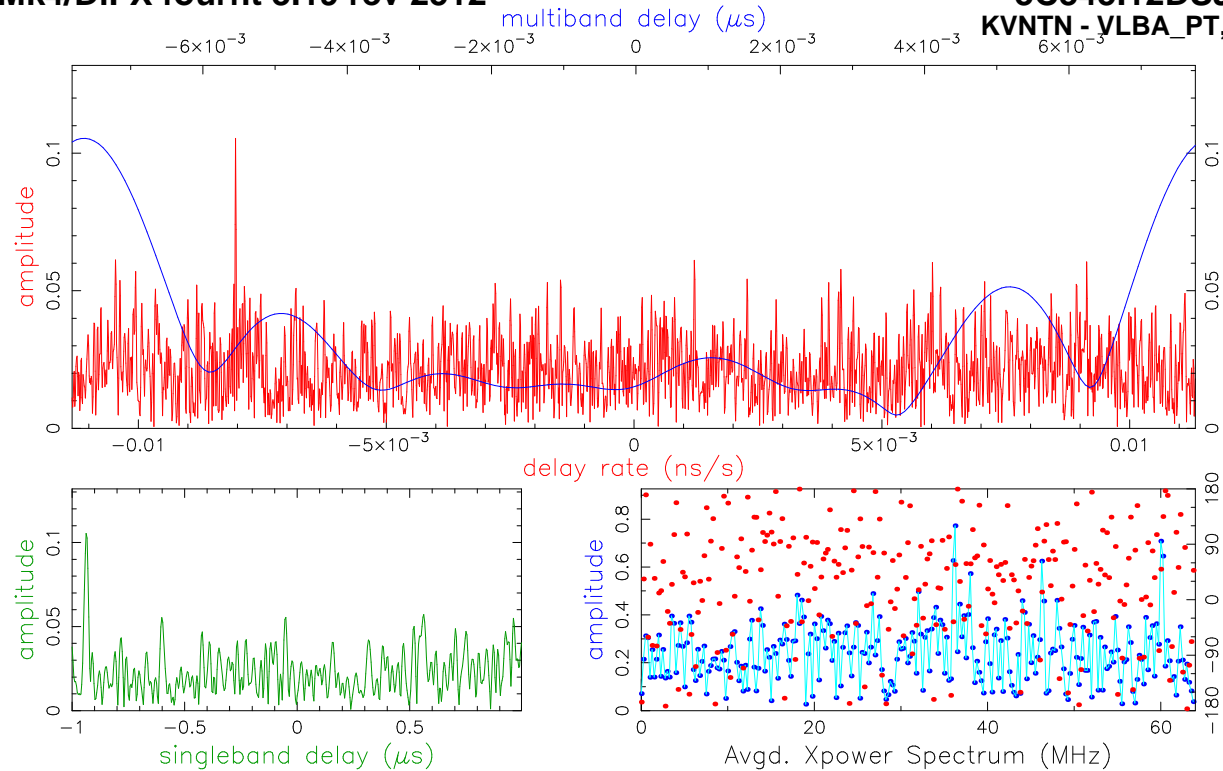
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	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	820/0	320.8
t	63000	63000	63000	63000	63000	63000	63000	63000	63000	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	
tp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	
t	1000	1000	1000	1000	1000	1000	1000	1000	1000	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	4.78838439054E+03		Apriori delay (usec)		4.78813140610E+03		Resid mbdelay (usec)		2.98444E-03	+/- 1.9E-04
Sband delay (usec)	4.78838053110E+03		Apriori clock (usec)		1.5795111E+01		Resid sbdelay (usec)		2.49125E-01	+/- 1.5E-03
Phase delay (usec)	4.78813140805E+03		Apriori clockrate (us/s)		-3.8865937E-09		Resid phdelay (usec)		1.95330E-06	+/- 6.4E-07
Delay rate (us/s)	1.72552825310E+00		Apriori rate (us/s)		1.72553307307E+00		Resid rate (us/s)		-4.81998E-06	+/- 2.6E-09
Total phase (deg)	176.2		Apriori accel (us/s/s)		-2.64478236786E-05		Resid phase (deg)		60.6	+/- 19.8

	RMS	Theor.	Amplitude	0.111 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	45.0	47.6	Search (2048X32)	0.098	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	72.0	83.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	19.8	28.0	Inc. seg. avg.	0.110	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	34.5	48.9	Inc. frq. avg.	0.102	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

t: az 65.6 el 48.4 pa -81.7 p: az 298.8 el 32.7 pa 70.0 u,v (fr/asec) -12902.934 -1673.922 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tp..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tp.W.237.12DSJB

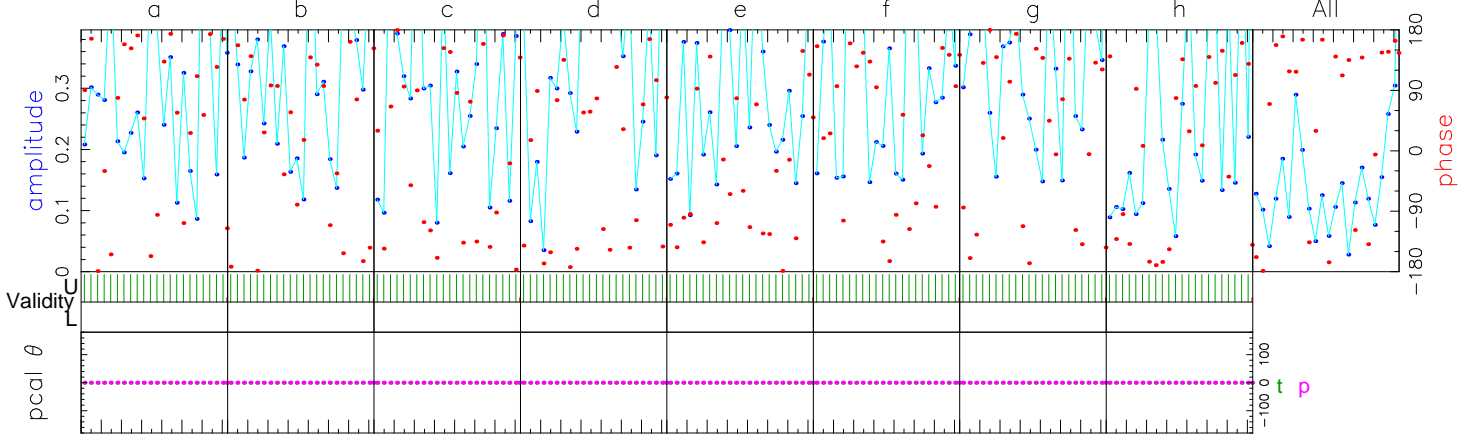


Fringe quality 0

SNR 6.0
Int time 419.829
Amp 0.132
Phase 156.4
PFD 5.0e-01
Delays (us)
SBD -0.936221
MBD -0.007622
Fringe rate (Hz)
-0.693358
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

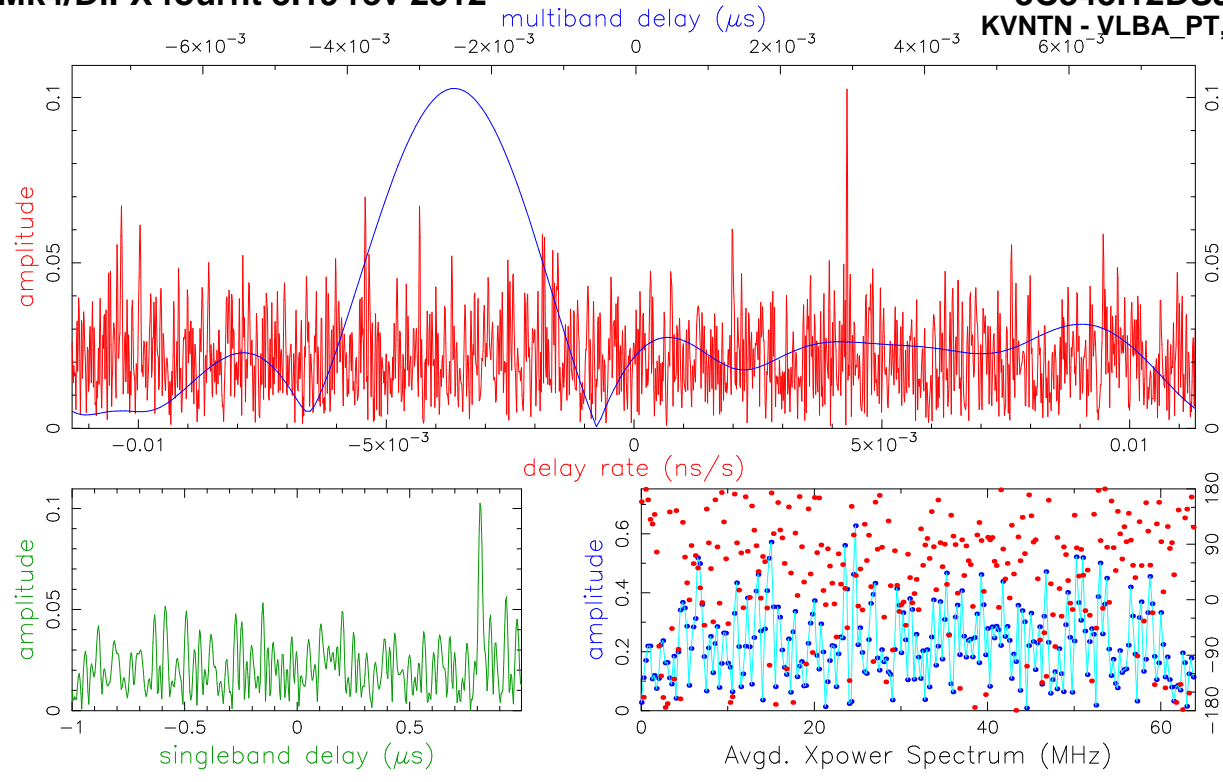
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183450
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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



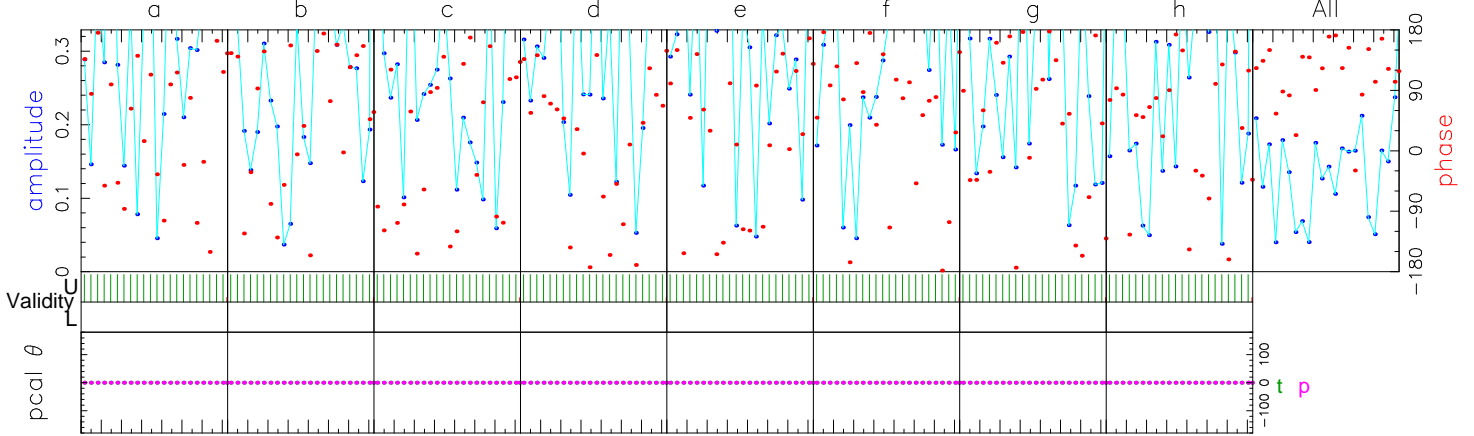
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
t	63000	63000	63000	63000	63000	63000	63000	63000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
tp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		4.78720190863E+03		Apriori delay (usec)	4.78813140610E+03		Resid mbdelay (usec)	-7.62246E-03		+/- 1.8E-04
Sband delay (usec)		4.78719518560E+03		Apriori clock (usec)	1.5795111E+01		Resid sbdelay (usec)	-9.36221E-01		+/- 1.4E-03
Phase delay (usec)		4.78813141114E+03		Apriori clockrate (us/s)	-3.8865937E-09		Resid phdelay (usec)	5.04321E-06		+/- 6.2E-07
Delay rate (us/s)		1.72552502388E+00		Apriori rate (us/s)	1.72553307307E+00		Resid rate (us/s)	-8.04920E-06		+/- 2.6E-09
Total phase (deg)		272.0		Apriori accel (us/s/s)	-2.64478236786E-05		Resid phase (deg)	156.4		+/- 19.3

ph/seg (deg) 58.8 46.2 Search (2048X32) 0.104 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 82.8 80.6 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.3 27.2 Inc. seg. avg. 0.129 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 31.8 47.5 Inc. frq. avg. 0.125 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 t: az 65.6 el 48.4 pa -81.7 p: az 298.8 el 32.7 pa 70.0 u, v (fr/asec) -12902.934 -1673.922 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tp..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tp.W.249.12DSJB



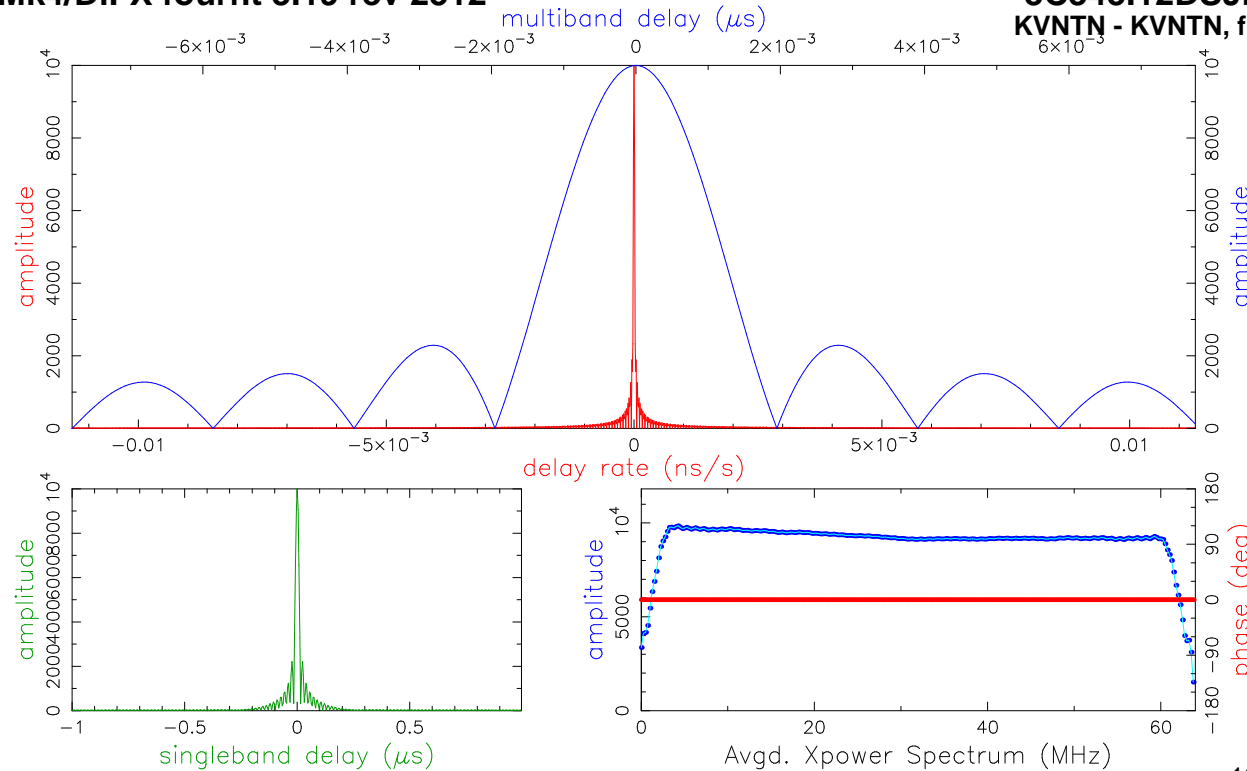
Fringe quality 0
SNR 5.8
Int time 419.829
Amp 0.110
Phase 119.2
PFD 8.3e-01
Delays (us)
SBD 0.813719
MBD -0.002443
Fringe rate (Hz) 0.370151
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build 2020:073:194659
2020:086:183454
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		
t	63000	63000	63000	63000	63000	63000	63000	63000	PC freqs	465.3
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
tp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
tp	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	4.78894146355E+03		Apriori delay (usec)		4.78813140610E+03		Resid mbdelay (usec)		-2.44255E-03	+/- 1.9E-04
Sband delay (usec)	4.78894512510E+03		Apriori clock (usec)		1.5795111E+01		Resid sbdelay (usec)		8.13719E-01	+/- 1.5E-03
Phase delay (usec)	4.78813140994E+03		Apriori clockrate (us/s)		-3.8865937E-09		Resid phdelay (usec)		3.84541E-06	+/- 6.4E-07
Delay rate (us/s)	1.72553737017E+00		Apriori rate (us/s)		1.72553307307E+00		Resid rate (us/s)		4.29709E-06	+/- 2.6E-09
Total phase (deg)	234.8		Apriori accel (us/s/s)		-2.64478236786E-05		Resid phase (deg)		119.2	+/- 19.8

ph/seg (deg) 48.5 47.5 Search (2048X32) 0.101 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 65.5 82.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 25.4 28.0 Inc. seg. avg. 0.107 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 19.0 48.9 Inc. frq. avg. 0.105 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
t: az 65.6 el 48.4 pa -81.7 p: az 298.8 el 32.7 pa 70.0 u, v (fr/asec) -12902.934 -1673.922 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tp..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tp.W.265.12DSJB simultaneous interpolator

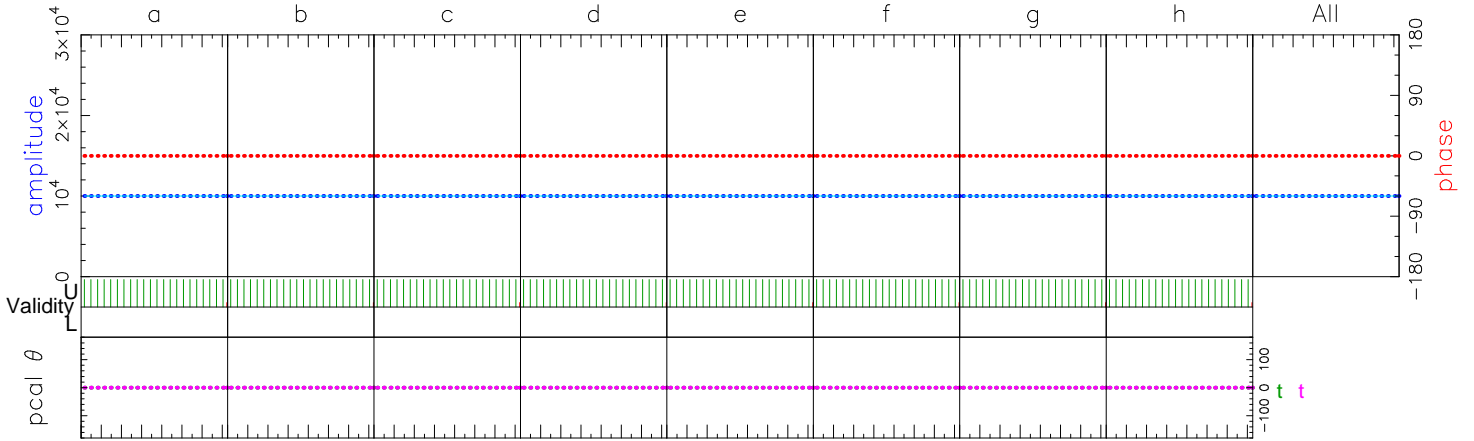


Fringe quality 9

SNR 560324.4
Int time 419.840
Amp 10000.000
Phase -0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Yr:day 16383
Start 2019:277
Stop 2019:277
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183446
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



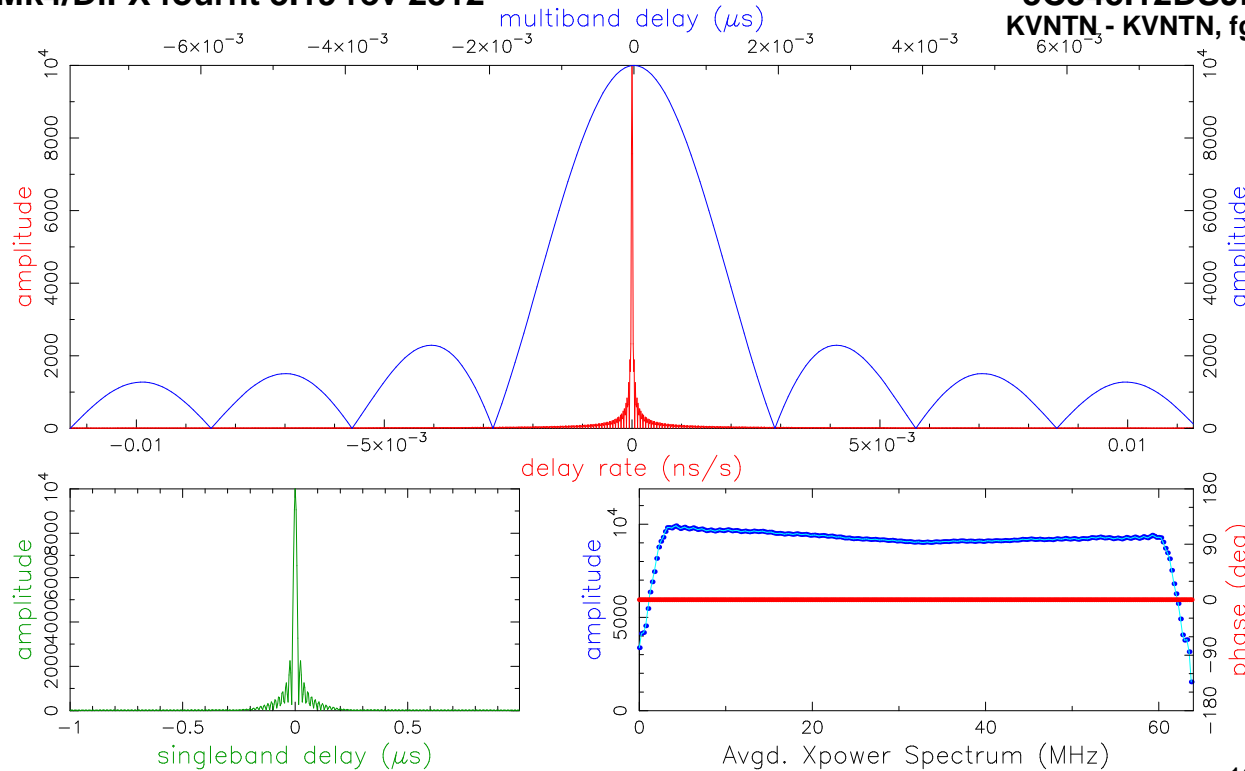
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
t:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	1.9E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	1.5E-08
Phase delay (usec)	-4.06799702814E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-4.06800E-20	+/-	6.6E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	2.7E-14
Total phase (deg)	-0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-0.0	+/-	0.0

ph/seg (deg)	0.0	RMS	Theor.	Amplitude	10000.000 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.0	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	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	10000.000	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

t: az 65.6 el 48.4 pa -81.7 t: az 65.6 el 48.4 pa -81.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tt.12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tt.W.233.12DSJB

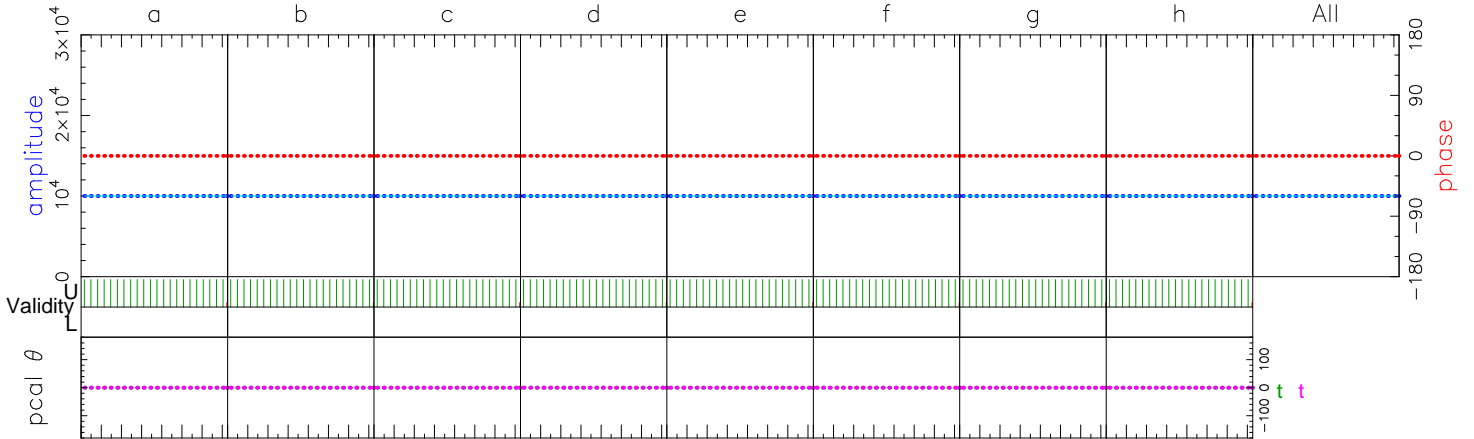


Fringe quality 9

SNR 560324.4
Int time 419.840
Amp 10000.000
Phase -0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

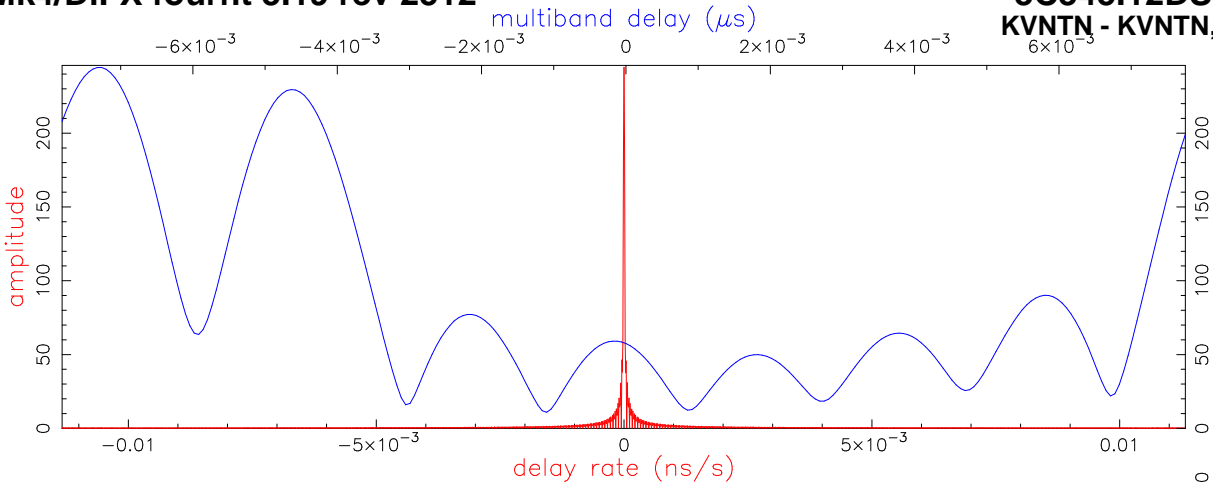
Exp. c192a
Yr:day 16383
Start 2019:277
Stop 2019:277
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183450
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

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



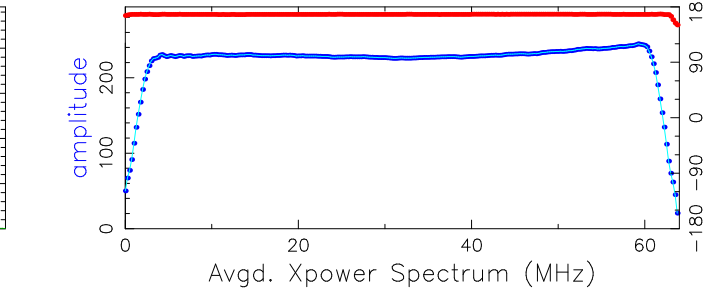
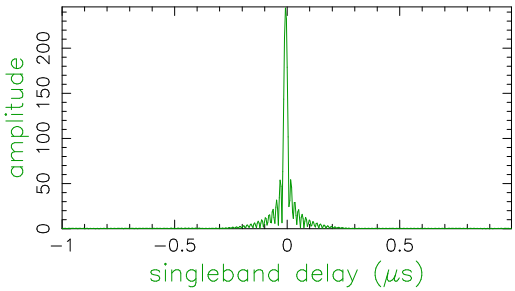
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	257.0
t	63000	63000	63000	63000	63000	63000	63000	63000	63000	10000.0
t:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.0
t:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0.0
t	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
t	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
t	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	0.000000E+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	0.000000E+00	+/- 1.5E-08
Phase delay (usec)	-2.73002769885E-20	-2.73002769885E-20	-2.73002769885E-20	-2.73002769885E-20	-2.73002769885E-20	-2.73002769885E-20	-2.73002769885E-20	-2.73002769885E-20	-2.73003E-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	0.000000E+00	+/- 2.7E-14
Total phase (deg)			-0.0						-0.0	+/- 0.0

RMS Theor. Amplitude 10000.000 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 10000.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 t: az 65.6 el 48.4 pa -81.7 t: az 65.6 el 48.4 pa -81.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tt.12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tt.W.248.12DSJB



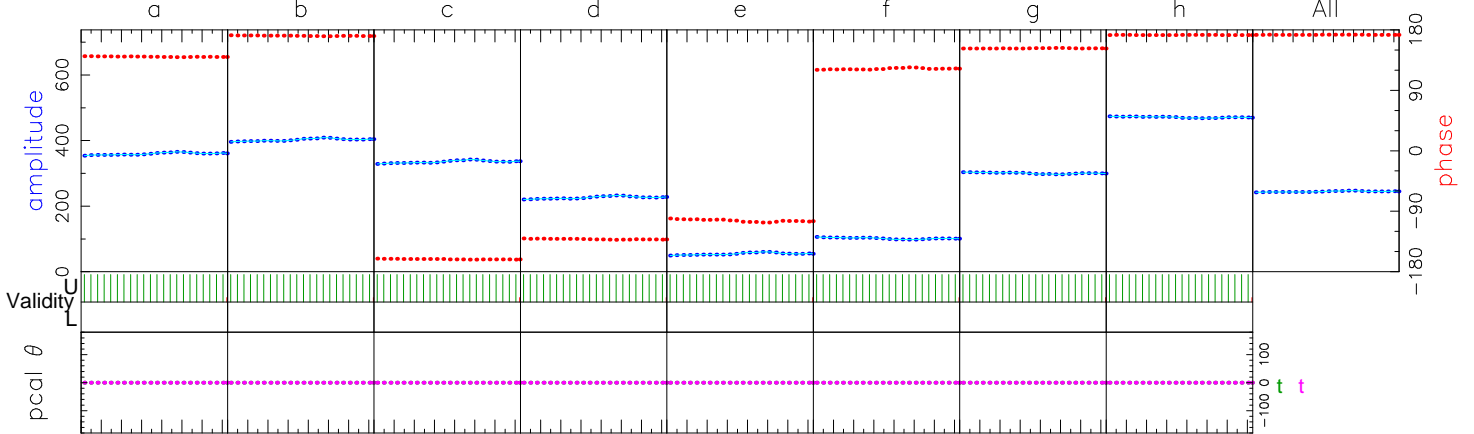
Fringe quality 5

SNR 13778.6
Int time 419.840
Amp 245.904
Phase 172.6
PFD 0.0e+00
Delays (us)
SBD -0.006886
MBD -0.007303
Fringe rate (Hz)
0.000003
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183454
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		
t	63000	63000	63000	63000	63000	63000	63000	63000		
t:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
t	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

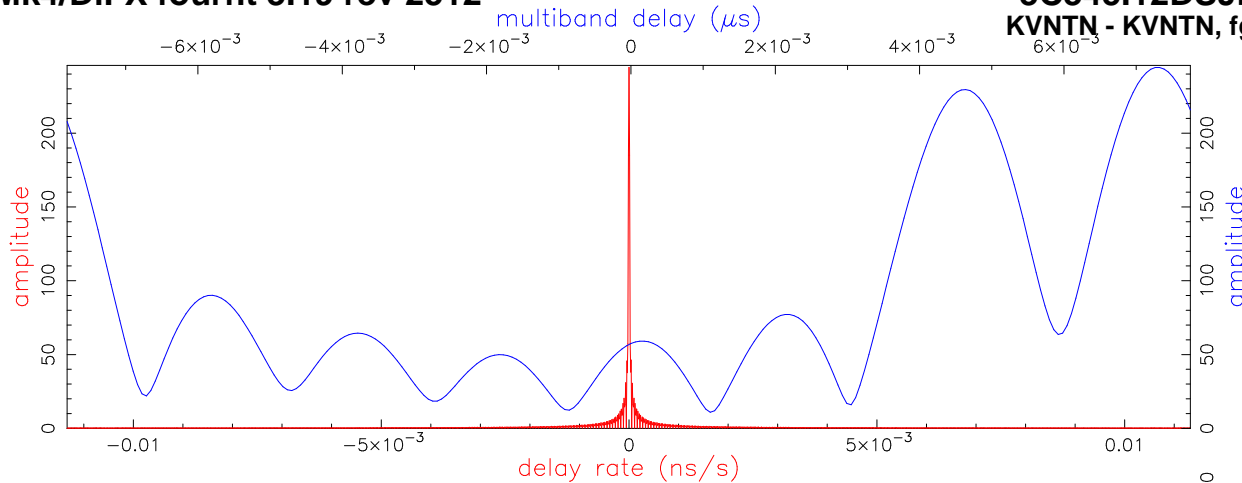
Group delay (usec)(sbd) -7.30303125000E-03 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) -7.30303E-03 +/- 7.9E-08
 Sband delay (usec) -6.88650000000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) -6.88650E-03 +/- 6.3E-07
 Phase delay (usec) 5.56556577017E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 5.56557E-06 +/- 2.7E-10
 Delay rate (us/s) 3.96792266967E-11 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) 3.96792E-11 +/- 1.1E-12
 Total phase (deg) 172.6 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) 172.6 +/- 0.0

RMS Theor. Amplitude 245.904 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.2 0.0 Search (2048X32) 244.488 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.8 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 49.7 0.0 Inc. seg. avg. 244.588 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 56.9 0.0 Inc. frq. avg. 281.444 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

t: az 65.6 el 48.4 pa -81.7 t: az 65.6 el 48.4 pa -81.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tt.12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tt.W.264.12DSJB

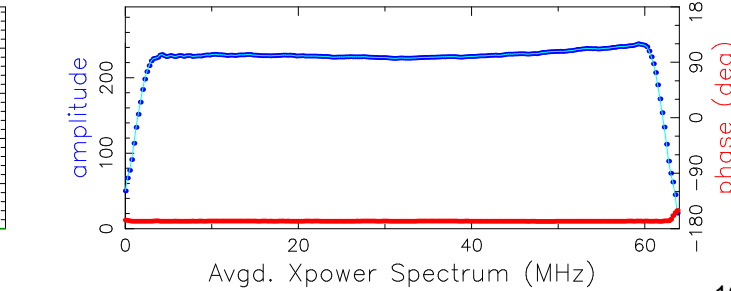
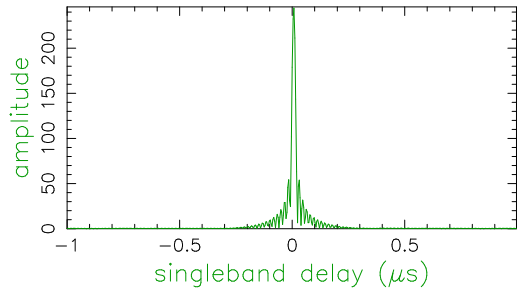
Mk4/DiFX fourfit 3.19 rev 2512

3C345.12DSJB, No0041, tt
KVNTN - KVNTN, fgroup W, pol RL



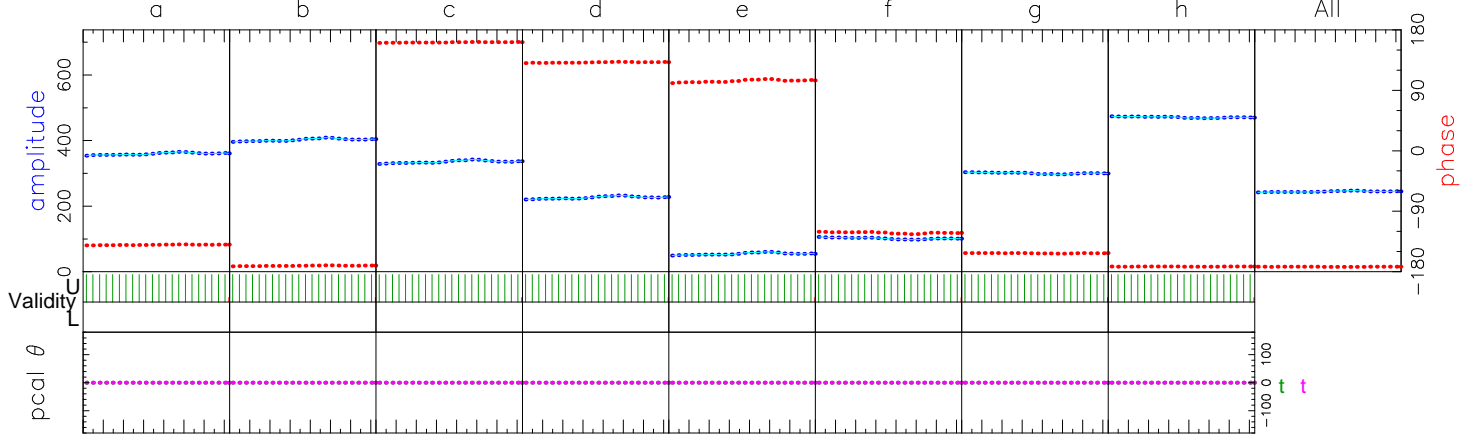
Fringe quality 5

SNR 13778.6
Int time 419.840
Amp 245.904
Phase -172.6
PFD 0.0e+00
Delays (us)
SBD 0.006886
MBD 0.007303
Fringe rate (Hz)
-0.000003
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183457
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

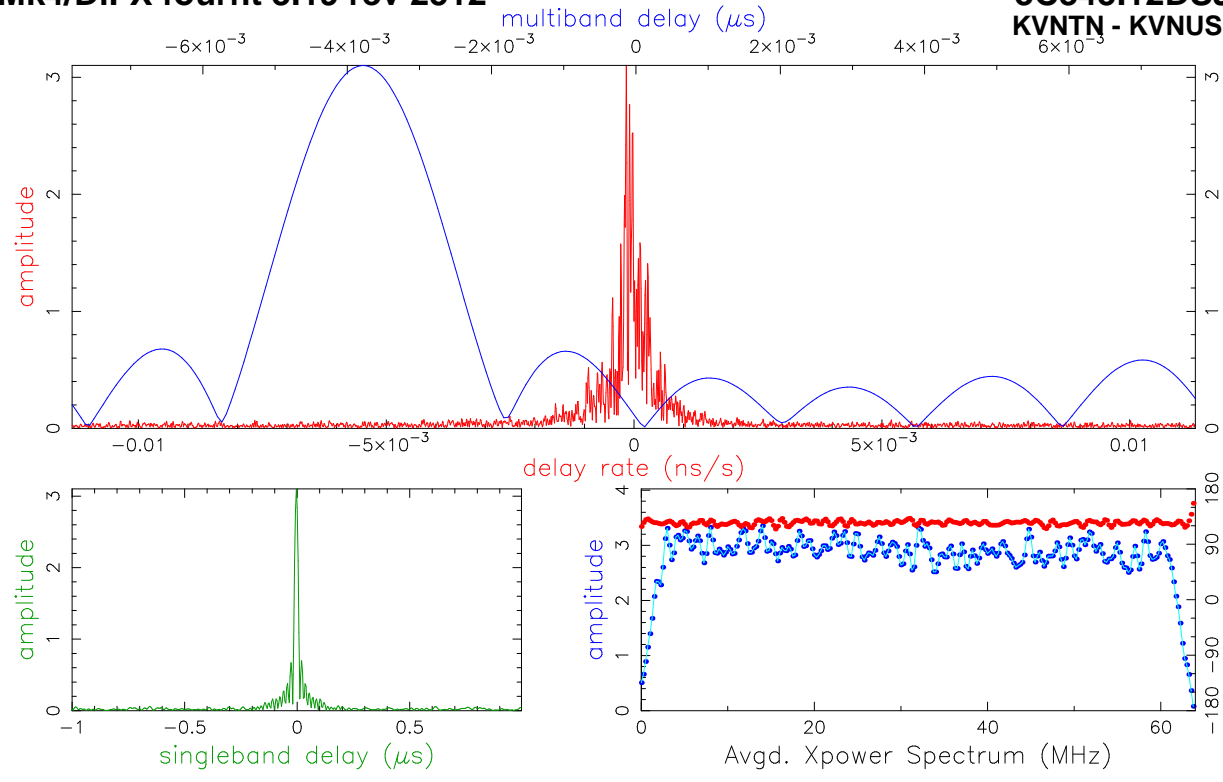


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
t	63000	63000	63000	63000	63000	63000	63000	63000	PC freqs	PC freqs
t:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	PC phase
t	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	Mani PC
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	PC amp
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	Chan ids
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	Tracks

Group delay (usec)(sbd) 7.30303125000E-03 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) 7.30303E-03 +/- 7.9E-08
 Sband delay (usec) 6.88650000000E-03 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 6.88650E-03 +/- 6.3E-07
 Phase delay (usec) -5.56556577000E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -5.56557E-06 +/- 2.7E-10
 Delay rate (us/s) -3.96792266967E-11 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) -3.96792E-11 +/- 1.1E-12
 Total phase (deg) -172.6 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) -172.6 +/- 0.0

RMS Theor. Amplitude 245.904 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.2 0.0 Search (2048X32) 244.488 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 0.8 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 49.7 0.0 Inc. seg. avg. 244.588 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 56.9 0.0 Inc. frq. avg. 281.444 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

t: az 65.6 el 48.4 pa -81.7 t: az 65.6 el 48.4 pa -81.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tt.12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tt.W.280.12DSJB

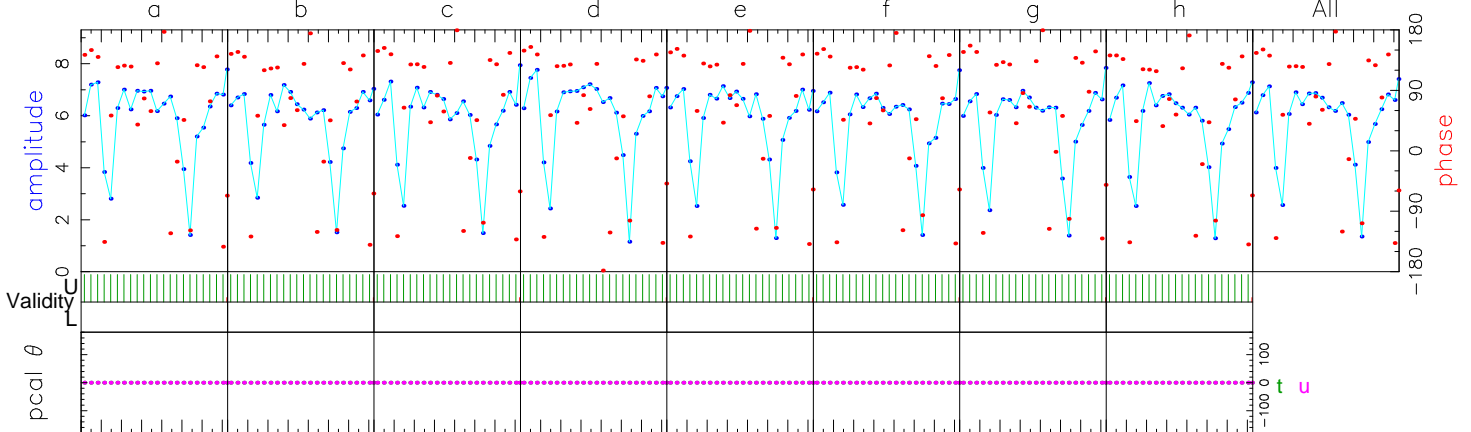


Fringe quality 5

SNR 173.8
Int time 419.840
Amp 3.102
Phase 125.4
PFD 0.0e+00
Delays (us)
SBD -0.003721
MBD -0.003783
Fringe rate (Hz)
-0.013308
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183446
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		
t	1000	1000	1000	1000	1000	1000	1000	1000		
u	1000	1000	1000	1000	1000	1000	1000	1000		
t:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
tu	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
u	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-6.86523527166E+02									
Sband delay (usec)	-6.86523464719E+02									
Phase delay (usec)	-6.86519739924E+02									
Delay rate (us/s)	5.12313216440E-02									
Total phase (deg)			-142.9							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
ion window (TEC)										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 68.7 1.6
amp/seg (%) 99.0 2.8
ph/frq (deg) 3.5 0.9
amp/frq (%) 2.9 1.6

RMS Theor. Amplitude 3.102 +/- 0.018
Search (2048X32) 3.056
Interp. 0.000
Inc. seg. avg. 5.797
Inc. frq. avg. 3.105

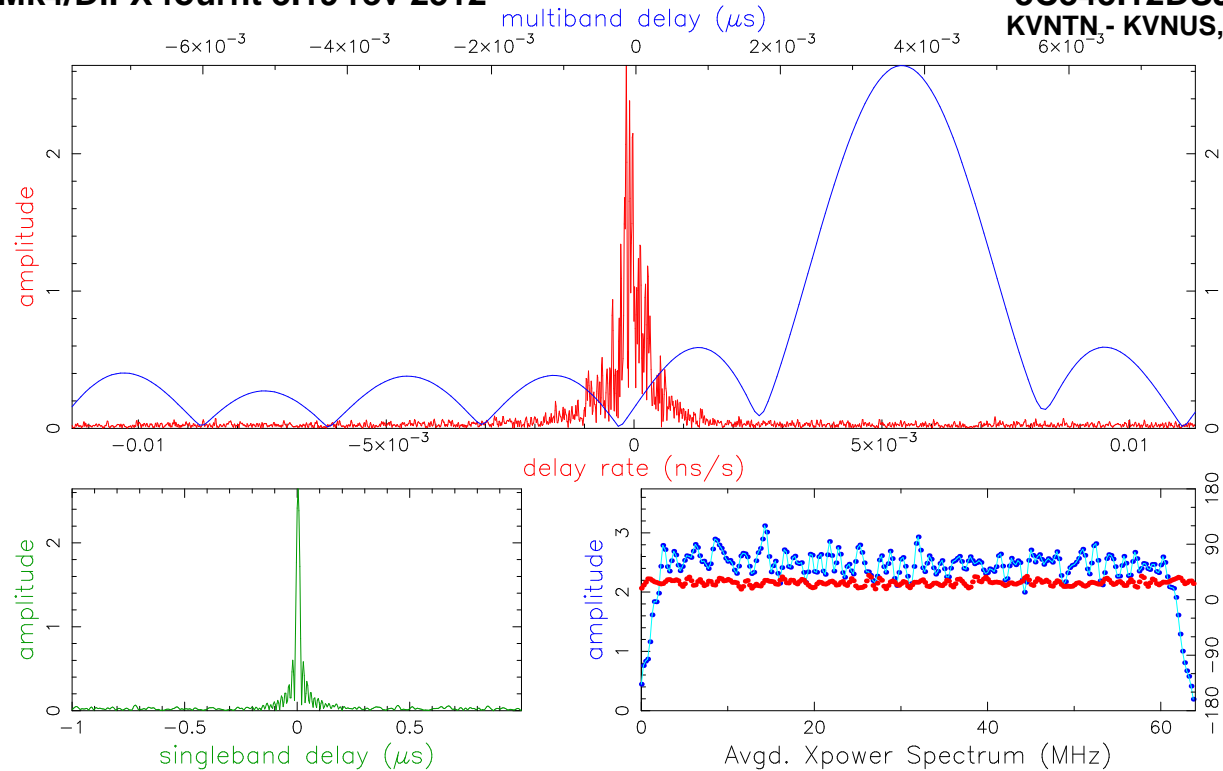
Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
sb window (us) -1.000 1.000
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

t: az 65.6 el 48.4 pa -81.7 u: az 68.6 el 51.4 pa -80.7 u,v (fr/asec) -379.845 -123.979 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tu..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tu.W.238.12DSJB

Mk4/DiFX fourfit 3.19 rev 2512

3C345.12DSJB, No0041, tu
KVNTN- KVNUS, fgroup W, pol RR

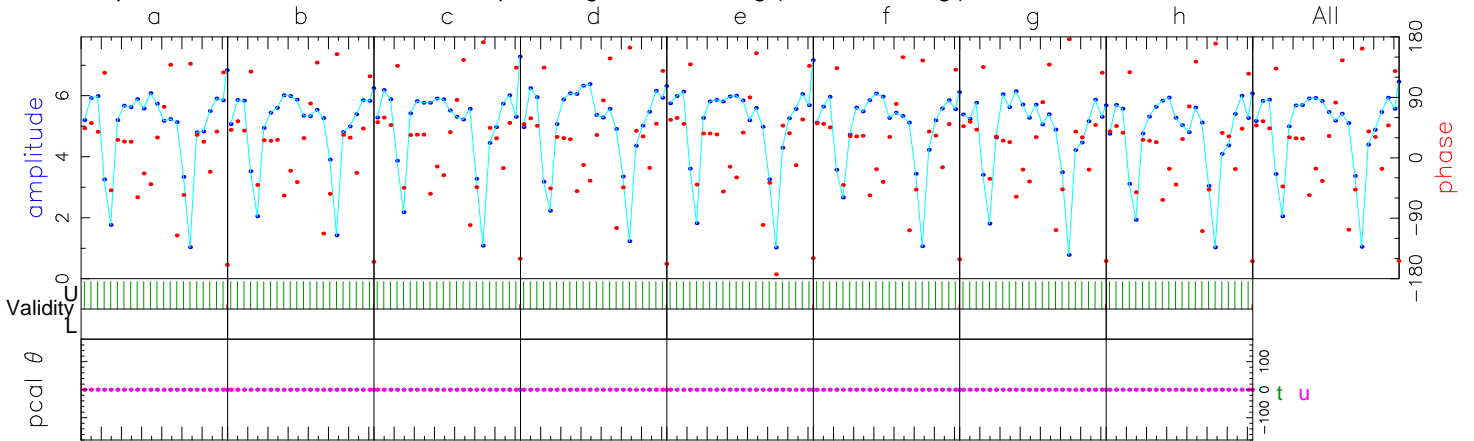


Fringe quality 5

SNR 148.1
Int time 419.840
Amp 2.644
Phase 28.7
PFD 0.0e+00
Delays (us)
SBD 0.003773
MBD 0.003682
Fringe rate (Hz)
-0.013323
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183451
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

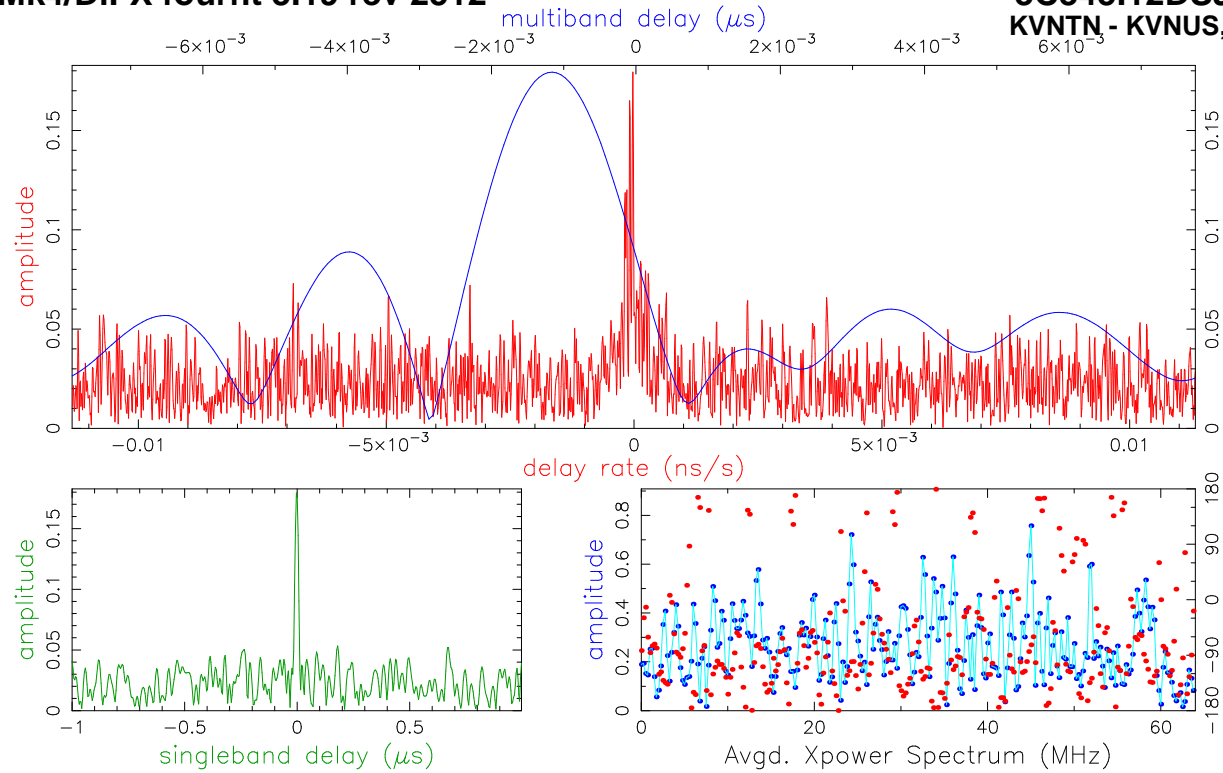
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	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				
t	63000	63000	63000	63000	63000	63000	63000	63000	PC freqs			
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
tu	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase			
t	1000	1000	1000	1000	1000	1000	1000	1000	Manl PC			
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp			
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids			
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks			
Group delay (usec)(sbd)	-6.86516061916E+02								3.68205E-03	+/- 7.3E-06		
Sband delay (usec)	-6.86515970469E+02								3.77350E-03	+/- 5.8E-05		
Phase delay (usec)	-6.86519743043E+02								9.25557E-07	+/- 2.5E-08		
Delay rate (us/s)	5.12313214761E-02								-1.54665E-07	+/- 1.0E-10		
Total phase (deg)			-239.7						28.7	+/- 0.8		
	RMS	Theor.	Amplitude	2.644 +/- 0.018					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	69.3	1.9	Search (2048X32)	2.592					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
amp/seg (%)	99.3	3.2	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
ph/frq (deg)	4.4	1.1	Inc. seg. avg.	4.928					Sample rate(MISamp/s): 128		dr window (ns/s) -0.011 0.011	
amp/frq (%)	2.3	1.9	Inc. frq. avg.	2.649					Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00
t: az 65.6 el 48.4 pa -81.7			u: az 68.6 el 51.4 pa -80.7									simultaneous interpolator
Control file: cf_1234_gmva			Input file: /Exps/c192a/v1_PV/1234/No0041/tu..12DSJB									Output file: /Exps/c192a/v1_PV/1234/No0041/tu.W.250.12DSJB

Mk4/DiFX fourfit 3.19 rev 2512

3C345.12DSJB, No0041, tu
KVNTN - KVNUS, fgroup W, pol LR

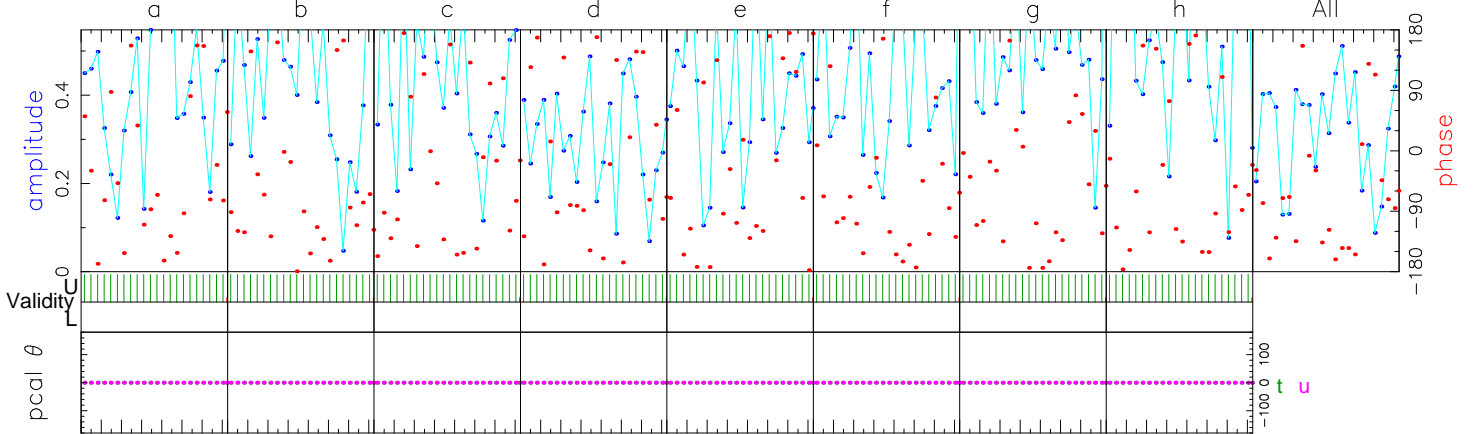


Fringe quality 9

SNR 10.2
Int time 419.840
Amp 0.183
Phase -120.8
PFD 5.7e-16
Delays (us)
SBD -0.002153
MBD -0.001175
Fringe rate (Hz)
-0.002281
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183455
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

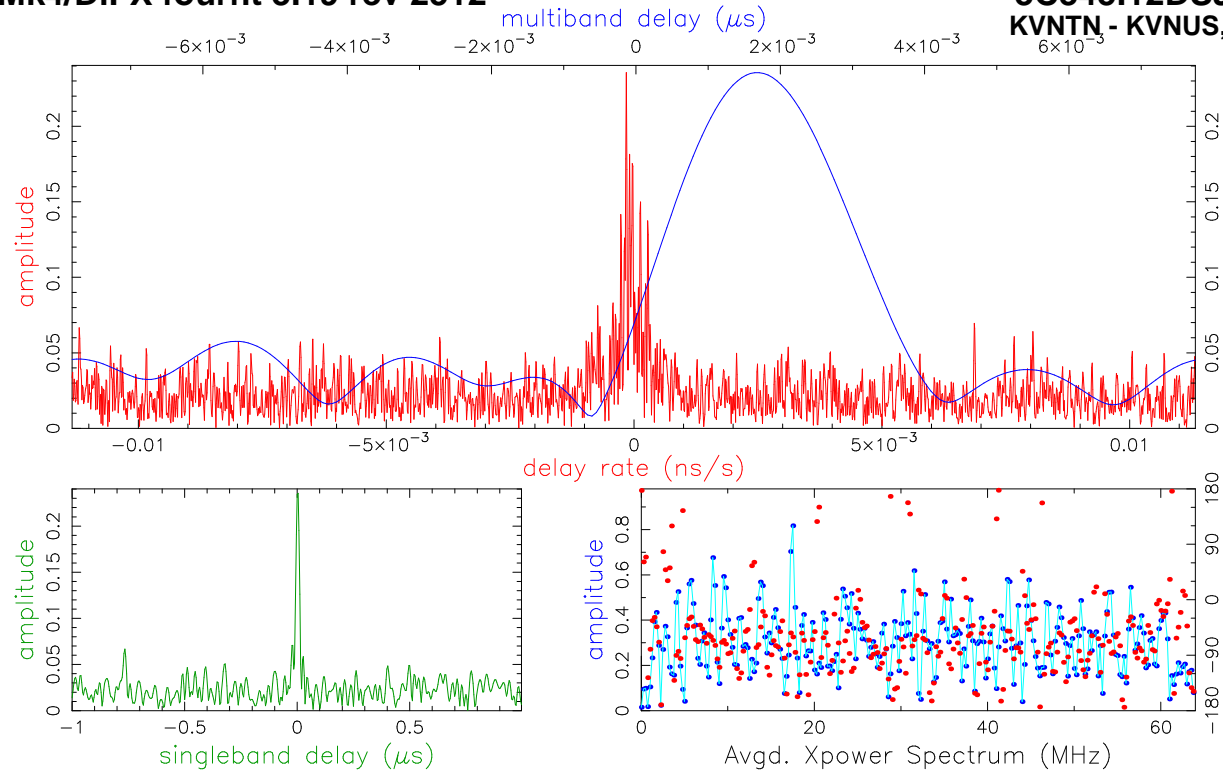


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-117.8	-110.1	-137.8	-143.8	-145.3	-101.9	-75.0	-132.6	Phase	-120.8
	0.1	0.3	0.2	0.1	0.2	0.2	0.1	0.3	Ampl.	0.2
	346.0	256.3	243.1	51.6	257.1	256.4	257.6	256.3	Sbd box	256.4
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
t	63000	63000	63000	63000	63000	63000	63000	63000	PC freqs	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
tu	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
u	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.86520918582E+02		Apriori delay (usec)		-6.86519743969E+02		Resid mbdelay (usec)		-1.17461E-03	+/- 1.1E-04
Sband delay (usec)	-6.86521896719E+02		Apriori clock (usec)		1.9282120E+01		Resid sbdelay (usec)		-2.15275E-03	+/- 8.4E-04
Phase delay (usec)	-6.86519747865E+02		Apriori clockrate (us/s)		-1.9999998E-07		Resid phdelay (usec)		-3.89646E-06	+/- 3.6E-07
Delay rate (us/s)	5.12314496584E-02		Apriori rate (us/s)		5.12314761415E-02		Resid rate (us/s)		-2.64831E-08	+/- 1.5E-09
Total phase (deg)			Apriori accel (us/s/s)		1.41132908190E-06		Resid phase (deg)		-120.8	+/- 11.2

ph/seg (deg) 68.8 26.8 Search (2048X32) 0.170 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 99.0 46.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 26.2 15.8 Inc. seg. avg. 0.287 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 39.8 27.6 Inc. frq. avg. 0.185 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 t: az 65.6 el 48.4 pa -81.7 u: az 68.6 el 51.4 pa -80.7 u,v (fr/asec) -379.845 -123.979 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tu..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tu.W.268.12DSJB

Mk4/DiFX fourfit 3.19 rev 2512

3C345.12DSJB, No0041, tu
KVNTN - KVNUS, fgroup W, pol RL

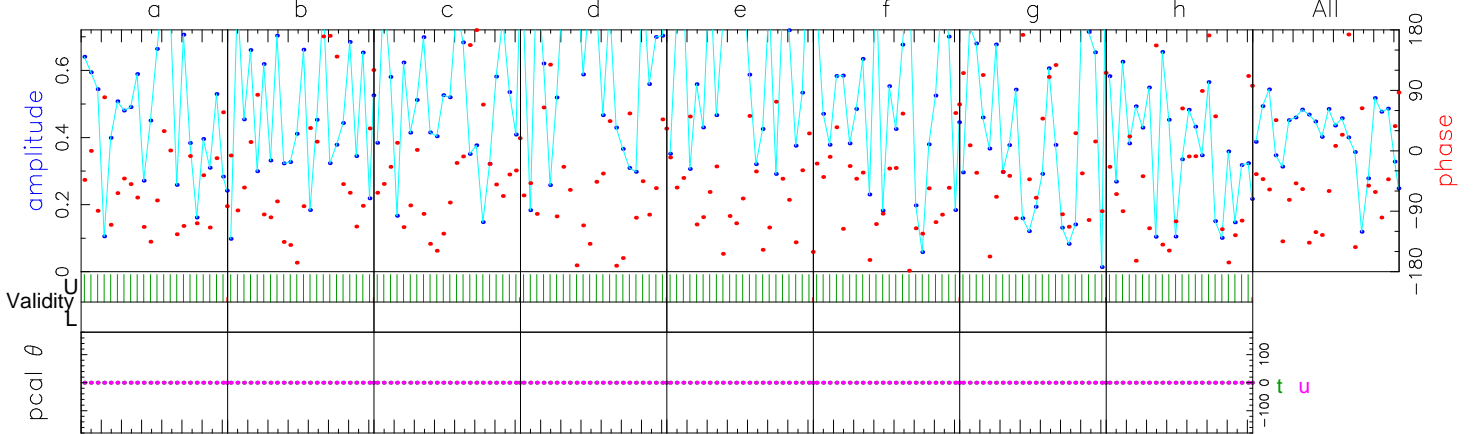


Fringe quality 9

SNR 13.5
Int time 419.840
Amp 0.240
Phase -63.5
PFD 1.4e-32
Delays (us)
SBD 0.002095
MBD 0.001697
Fringe rate (Hz) -0.013412
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

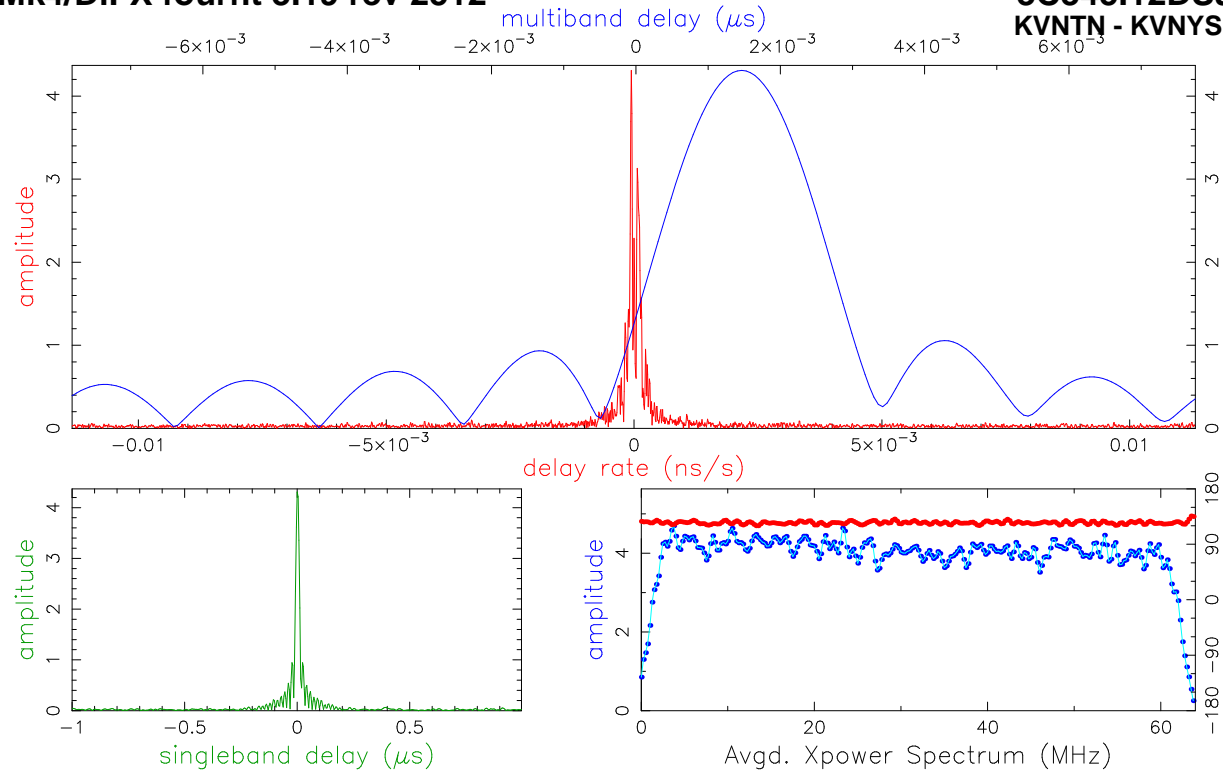
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183458
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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
	-51.6	-87.1	-59.8	-66.2	-66.6	-56.5	-32.0	-101.9	Phase	-63.5
	0.3	0.2	0.3	0.3	0.4	0.3	0.1	0.1	Ampl.	0.2
	258.1	257.1	257.6	257.9	258.0	256.8	389.2	67.2	Sbd box	257.5
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
t	63000	63000	63000	63000	63000	63000	63000	63000	PC freqs	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
tu	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
tu	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
u	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.86518047103E+02		Apriori delay (usec)		-6.86519743969E+02		Resid mbdelay (usec)		1.69687E-03	+/- 8.1E-05
Sband delay (usec)	-6.86517648969E+02		Apriori clock (usec)		1.9282120E+01		Resid sbdelay (usec)		2.09500E-03	+/- 6.4E-04
Phase delay (usec)	-6.86519746017E+02		Apriori clockrate (us/s)		-1.9999998E-07		Resid phdelay (usec)		-2.04866E-06	+/- 2.7E-07
Delay rate (us/s)	5.12313204430E-02		Apriori rate (us/s)		5.12314761415E-02		Resid rate (us/s)		-1.55698E-07	+/- 1.1E-09
Total phase (deg)			Apriori accel (us/s/s)		1.41132908190E-06		Resid phase (deg)		-63.5	+/- 8.5

ph/seg (deg) 66.1 20.4 Search (2048X32) 0.230 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 82.4 35.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 23.3 12.0 Inc. seg. avg. 0.390 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 37.0 21.0 Inc. frq. avg. 0.239 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
t: az 65.6 el 48.4 pa -81.7 u: az 68.6 el 51.4 pa -80.7 u, v (fr/asec) -379.845 -123.979 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/tu..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/tu.W.284.12DSJB

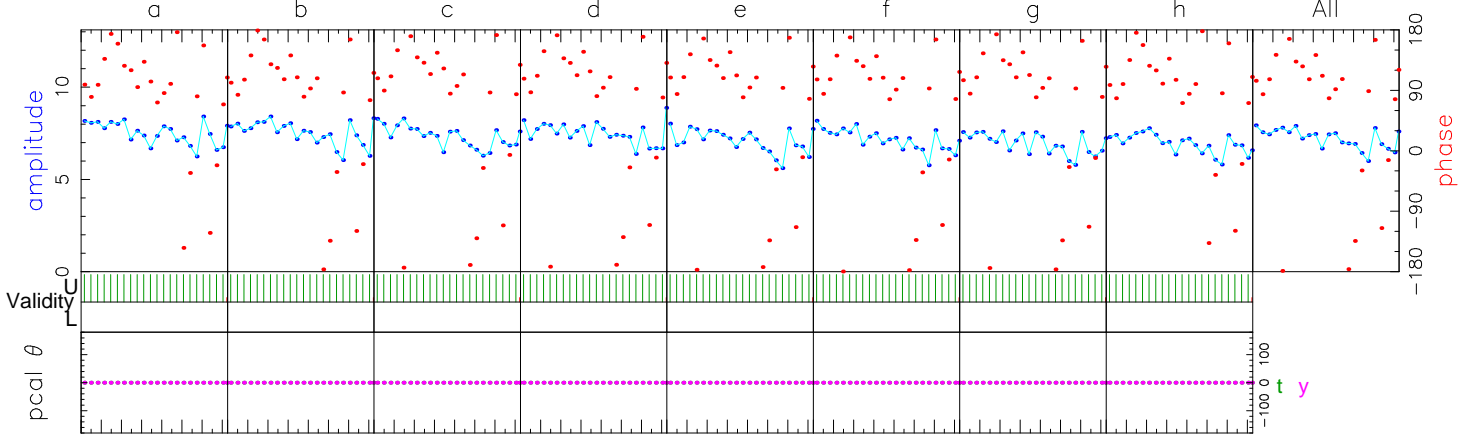


Fringe quality 5

SNR 244.9
Int time 419.840
Amp 4.370
Phase 124.7
PFD 0.0e+00
Delays (us)
SBD 0.001488
MBD 0.001465
Fringe rate (Hz)
-0.004881
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183448
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		
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
t y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-4.66575256772E+02	Apriori delay (usec)	-4.66576721442E+02	Resid mbdelay (usec)	1.46467E-03	+/-	4.4E-06
Sband delay (usec)	-4.66575233942E+02	Apriori clock (usec)	-1.4825573E+00	Resid sbdelay (usec)	1.48750E-03	+/-	3.5E-05
Phase delay (usec)	-4.66576717420E+02	Apriori clockrate (us/s)	1.0000001E-07	Resid phdelay (usec)	4.02242E-06	+/-	1.5E-08
Delay rate (us/s)	4.50166011079E-02	Apriori rate (us/s)	4.50166577692E-02	Resid rate (us/s)	-5.66612E-08	+/-	6.2E-11
Total phase (deg)	-157.9	Apriori accel (us/s/s)	-1.91137878213E-06	Resid phase (deg)	124.7	+/-	0.5

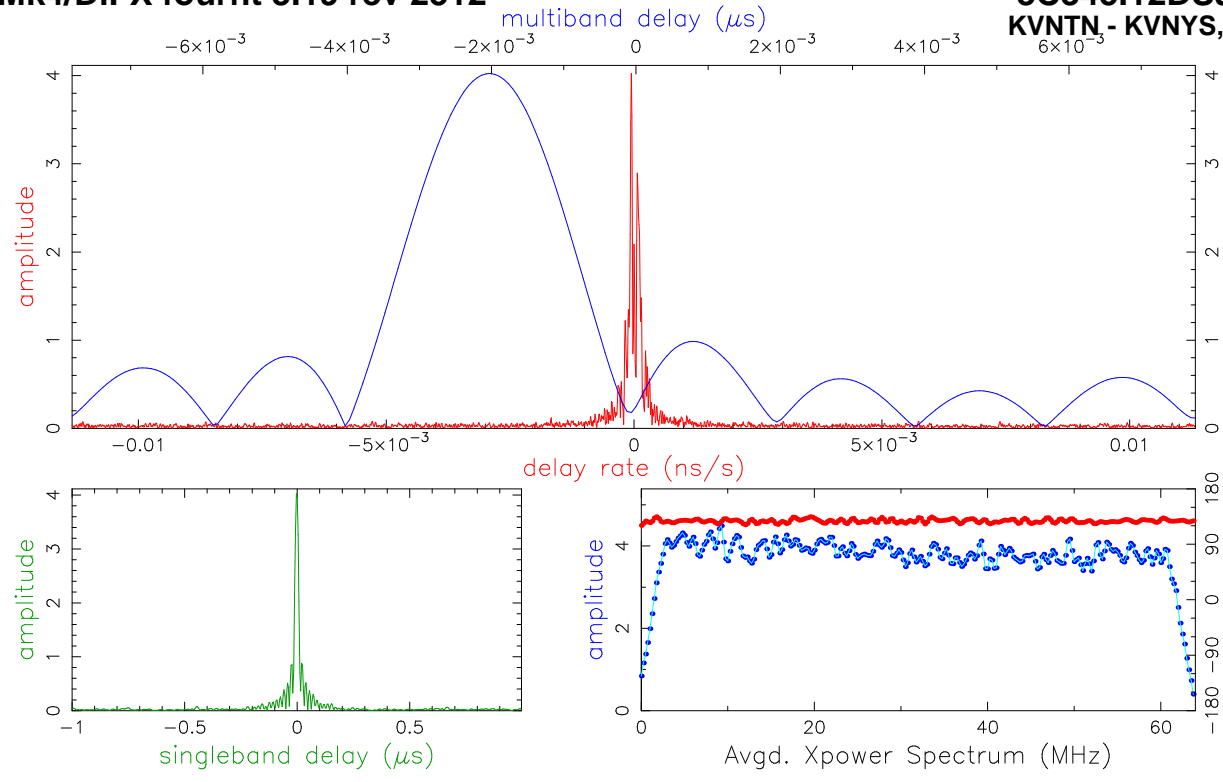
ph/seg (deg)	63.2	1.1	Search (2048X32)	4.297	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	66.3	2.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	5.0	0.7	Inc. seg. avg.	7.217	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	3.3	1.2	Inc. frq. avg.	4.322	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

t: az 65.6 el 48.4 pa -81.7 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) -339.680 -534.480 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/ty..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/ty.W.242.12DSJB

Mk4/DiFX fourfit 3.19 rev 2512

3C345.12DSJB, No0041, ty
KVNTN - KVNYs, fgroup W, pol RR

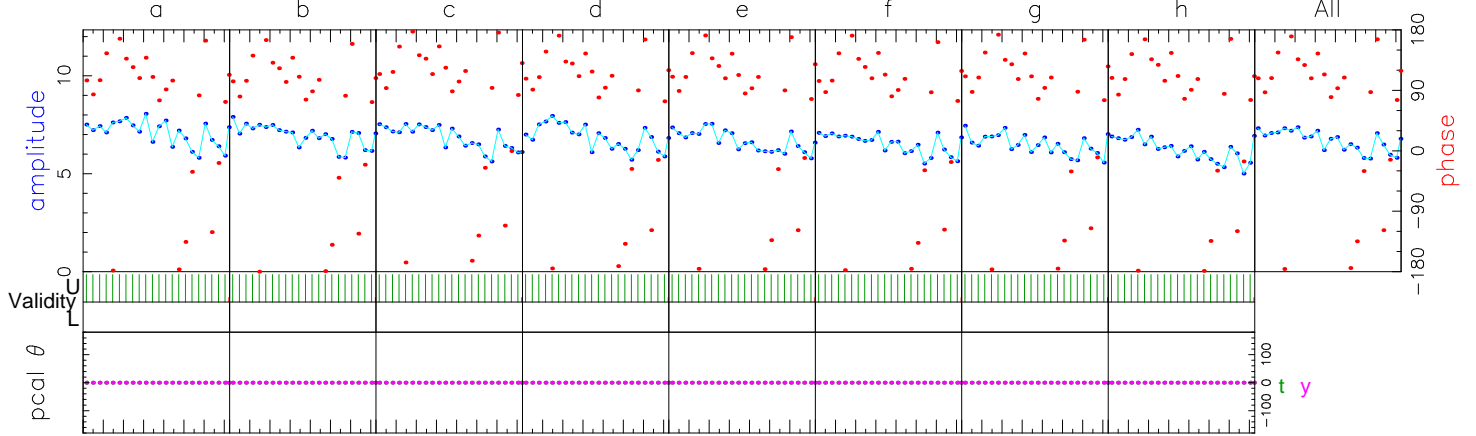


Fringe quality 5

SNR 230.6
Int time 419.840
Amp 4.116
Phase 127.6
PFD 0.0e+00
Delays (us)
SBD -0.002011
MBD -0.002029
Fringe rate (Hz)
-0.004857
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

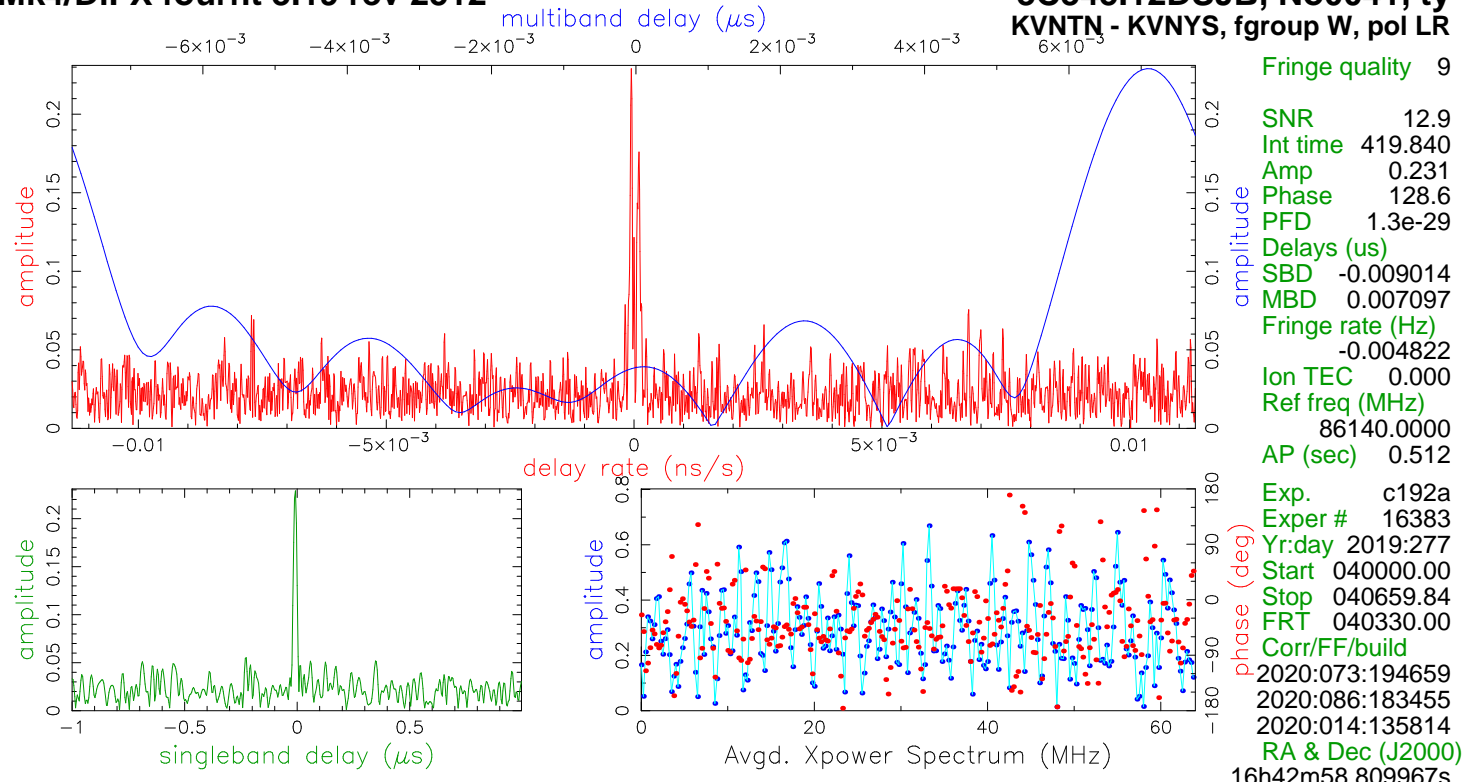
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183452
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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		
t	63000	63000	63000	63000	63000	63000	63000	63000	PC freqs	256.5
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
ty	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
ty	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.66578750303E+02				-4.66576721442E+02				Resid mbdelay (usec)	-2.02886E-03 +/- 4.7E-06
Sband delay (usec)	-4.66578732442E+02				-1.4825573E+00				Resid sbdelay (usec)	-2.01100E-03 +/- 3.7E-05
Phase delay (usec)	-4.66576717328E+02				1.0000001E-07				Resid phdelay (usec)	4.11464E-06 +/- 1.6E-08
Delay rate (us/s)	4.50166013822E-02				4.50166577692E-02				Resid rate (us/s)	-5.63870E-08 +/- 6.6E-11
Total phase (deg)		-155.0			-1.91137878213E-06				Resid phase (deg)	127.6 +/- 0.5

ph/seg (deg) 63.4 1.2 Search (2048X32) 4.008 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 63.8 2.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 4.0 0.7 Inc. seg. avg. 6.691 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 4.3 1.2 Inc. frq. avg. 4.032 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
t: az 65.6 el 48.4 pa -81.7 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) -339.680 -534.480 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/ty..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/ty.W.255.12DSJB



Fringe quality 9

SNR 12.9

Int time 419.840

Amp 0.231

Phase 128.6

PFD 1.3e-29

Delays (us)

SBD -0.009014

MBD 0.007097

Fringe rate (Hz)

-0.004822

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c192a

Exper # 16383

Yr:day 2019:277

Start 040000.00

Stop 040659.84

FRT 040330.00

Corr/FF/build

2020:073:194659

2020:086:183455

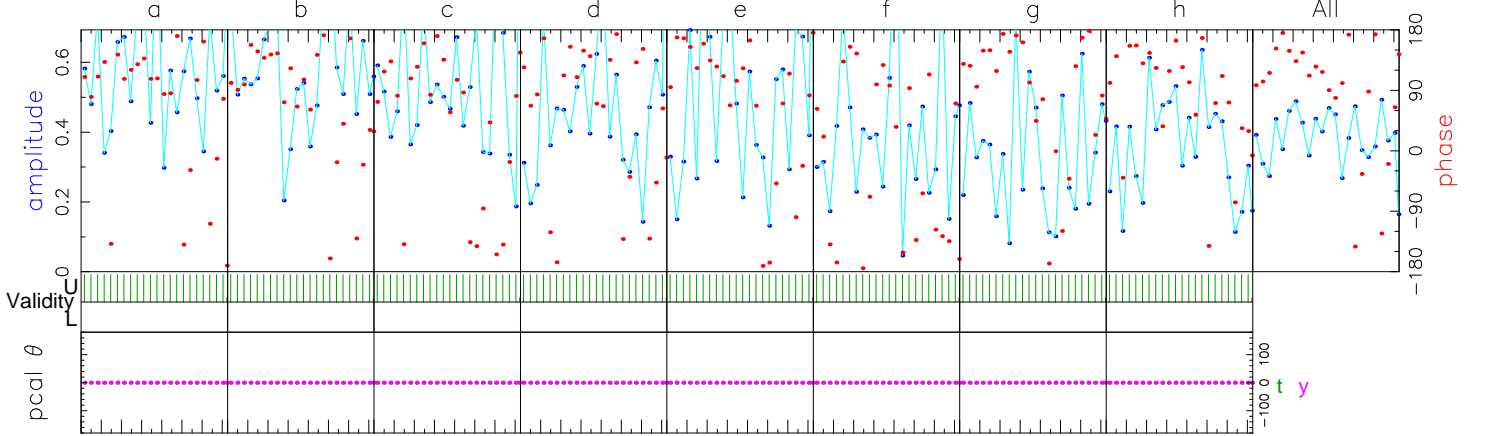
2020:014:135814

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		
t	63000	63000	63000	63000	63000	63000	63000	63000	PC freqs	128.6
y	1000	1000	1000	1000	1000	1000	1000	1000	Ampl.	0.2
ty	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	254.7
ty	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Mani PC	
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp	
									Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.66585249709E+02				-4.66576721442E+02				7.09673E-03	+/- 8.4E-05
Sband delay (usec)	-4.66585735442E+02				-1.4825573E+00				-9.01400E-03	+/- 6.7E-04
Phase delay (usec)	-4.66576717297E+02				1.0000001E-07				4.14547E-06	+/- 2.9E-07
Delay rate (us/s)	4.50166017874E-02				4.50166577692E-02				-5.59817E-08	+/- 1.2E-09
Total phase (deg)			-154.1		-1.91137878213E-06				128.6	+/- 8.8
ph/seg (deg)	63.1	21.2								
amp/seg (%)	75.7	37.0								
ph/frq (deg)	9.4	12.5								
amp/frq (%)	27.6	21.8								

Group delay (usec)(sbd) -4.66585249709E+02 Apriori delay (usec) -4.66576721442E+02 Resid mbdelay (usec) 7.09673E-03 +/- 8.4E-05

Sband delay (usec) -4.66585735442E+02 Apriori clock (usec) -1.4825573E+00 Resid sbdelay (usec) -9.01400E-03 +/- 6.7E-04

Phase delay (usec) -4.66576717297E+02 Apriori clockrate (us/s) 1.0000001E-07 Resid phdelay (usec) 4.14547E-06 +/- 2.9E-07

Delay rate (us/s) 4.50166017874E-02 Apriori rate (us/s) 4.50166577692E-02 Resid rate (us/s) -5.59817E-08 +/- 1.2E-09

Total phase (deg) -154.1 Apriori accel (us/s/s) -1.91137878213E-06 Resid phase (deg) 128.6 +/- 8.8

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

PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

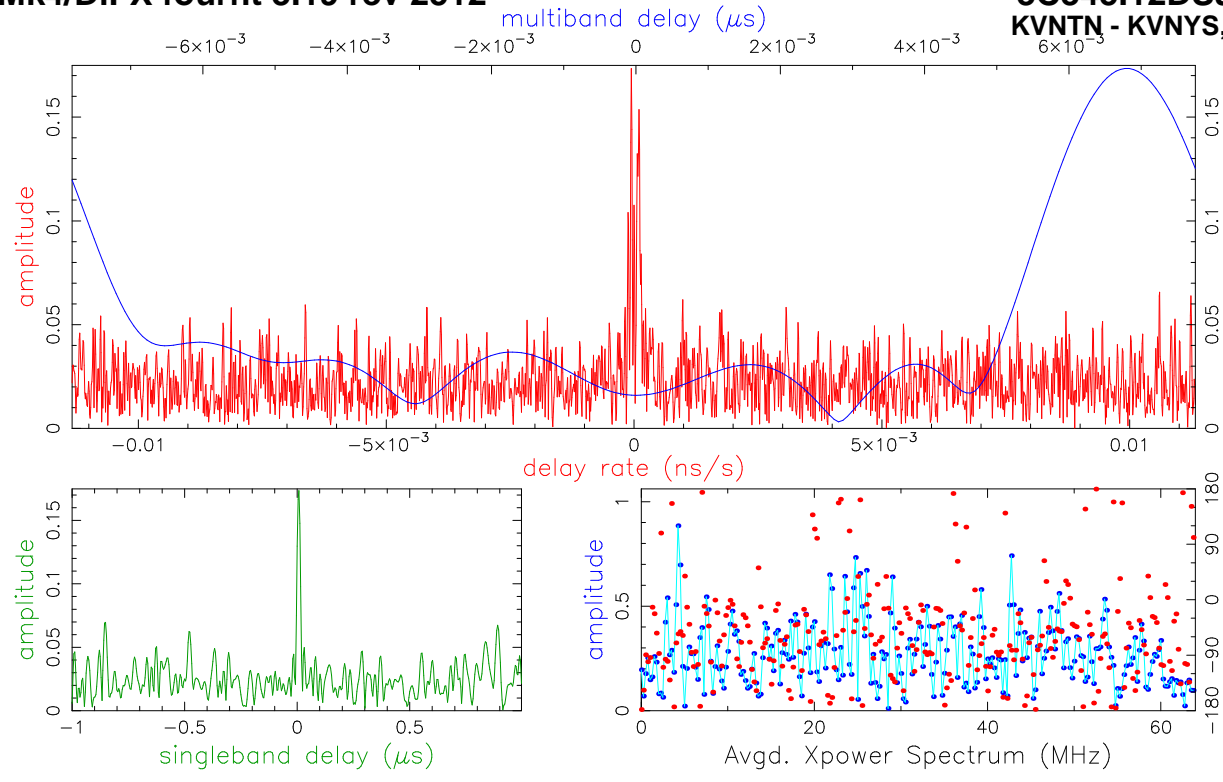
Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

Sample rate(MSamp/s): 128 dr window (ns/s) -0.011 0.011

Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

t: az 65.6 el 48.4 pa -81.7 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) -339.680 -534.480 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/ty..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/ty.W.271.12DSJB

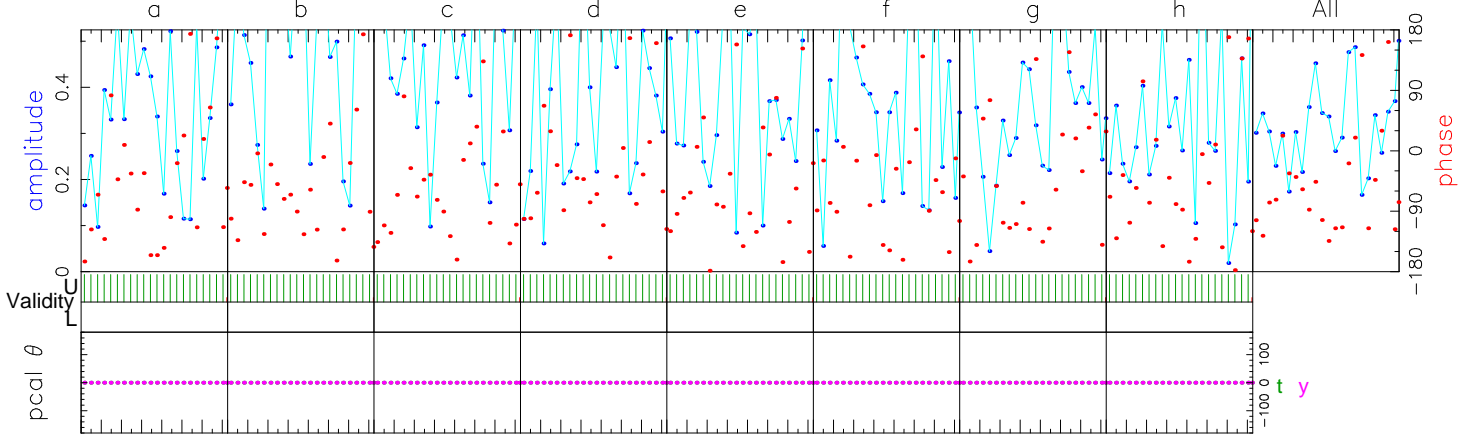


Fringe quality 9

SNR 9.8
Int time 419.840
Amp 0.175
Phase -73.2
PFD 4.6e-14
Delays (us)
SBD 0.006663
MBD 0.006800
Fringe rate (Hz) -0.004932
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183459
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	820/0	258.7	
t	63000	63000	63000	63000	63000	63000	63000	63000	63000		
y	1000	1000	1000	1000	1000	1000	1000	1000	1000		
ty	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
Group delay (usec)(sbd)	-4.66569921428E+02				-4.66576721442E+02				6.80001E-03	+/- 1.1E-04	
Sband delay (usec)	-4.66570057942E+02				-1.4825573E+00				6.66350E-03	+/- 8.8E-04	
Phase delay (usec)	-4.66576723804E+02				1.0000001E-07				-2.36177E-06	+/- 3.8E-07	
Delay rate (us/s)	4.50166005184E-02				4.50166577692E-02				-5.72507E-08	+/- 1.6E-09	
Total phase (deg)			-355.9		-1.91137878213E-06				-73.2	+/- 11.7	
	RMS	Theor.	Amplitude	0.175 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			sb window (us)	-1.000	1.000
ph/seg (deg)	63.0	28.0	Search (2048X32)	0.172	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled			mb window (us)	-0.008	0.008
amp/seg (%)	93.4	48.9	Interp.	0.000	Bits/sample: 2x2	Sample rate(MISamp/s): 128			dr window (ns/s)	-0.011	0.011
ph/frq (deg)	18.4	16.5	Inc. seg. avg.	0.280	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			ion window (TEC)	0.00	0.00
amp/frq (%)	31.8	28.9	Inc. frq. avg.	0.173							

t: az 65.6 el 48.4 pa -81.7 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) -339.680 -534.480 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/ty..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/ty.W.287.12DSJB