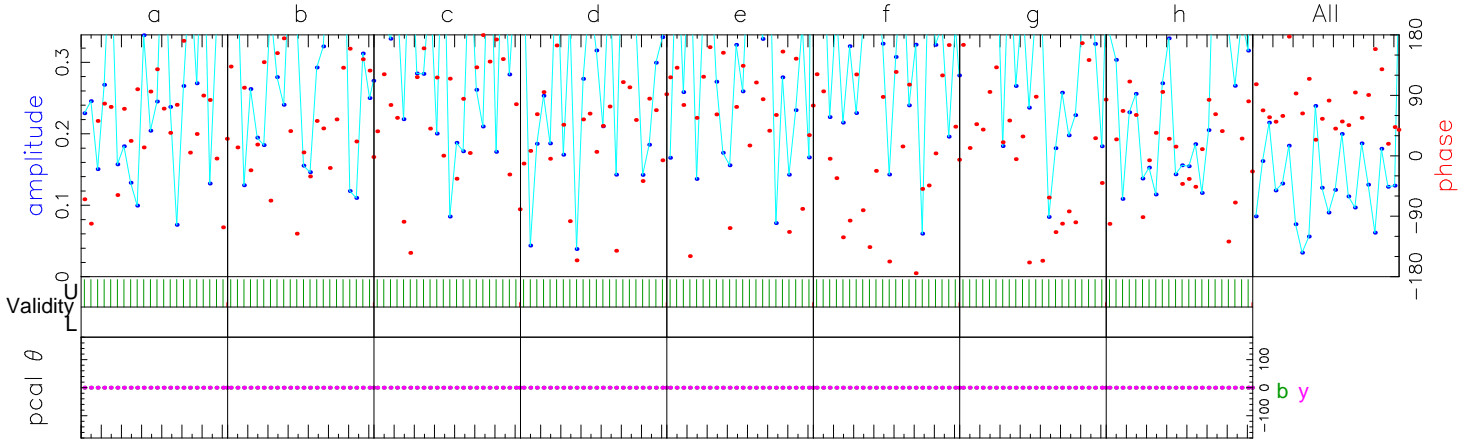


Fringe quality 0

SNR 5.8
 Int time 419.803
 Amp 0.113
 Phase 67.0
 PFD 7.6e-01
 Delays (us)
 SBD 0.689091
 MBD 0.005031
 Fringe rate (Hz) 0.431162
 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
 2020:086:183352
 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



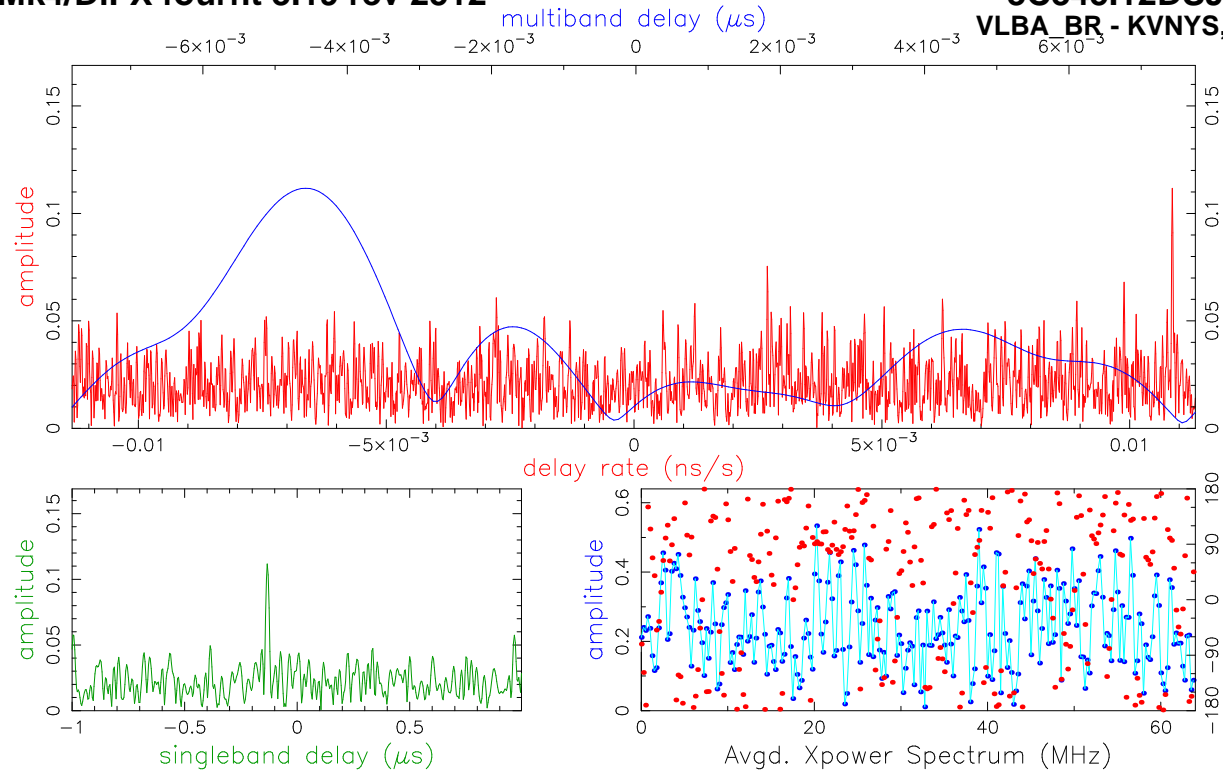
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-1.45442533509E+03								5.03113E-03	+/- 1.9E-04
Sband delay (usec)	-1.45442877497E+03								6.89091E-01	+/- 1.5E-03
Phase delay (usec)	-1.45511786406E+03								2.15926E-06	+/- 6.3E-07
Delay rate (us/s)	-1.43985872672E+00								5.00536E-06	+/- 2.6E-09
Total phase (deg)			-291.7						67.0	+/- 19.7
			Apriori delay (usec)						Resid mbdelay (usec)	
			Apriori clock (usec)						Resid sbdelay (usec)	
			Apriori clockrate (us/s)						Resid phdelay (usec)	
			Apriori rate (us/s)						Resid rate (us/s)	
			Apriori accel (us/s/s)						Resid phase (deg)	
ph/seg (deg)	41.1	47.1	Search (2048X32)	0.113 +/- 0.019					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	61.1	82.3	Interp.	0.000					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	26.7	27.8	Inc. seg. avg.	0.107					Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	33.6	48.5	Inc. frq. avg.	0.109					Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
									Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00
									nlags: 256	t_cohere infinite

b: az 283.1 el 45.8 pa 57.8 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) 10760.659 1922.875 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/by..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/by.W.23.12DSJB

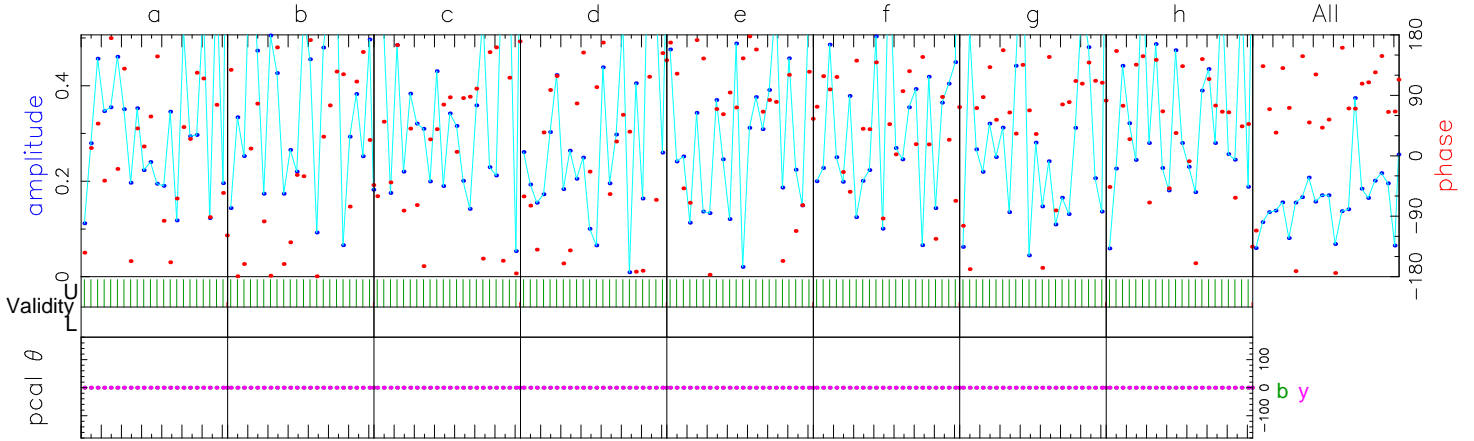
Mk4/DiFX fourfit 3.19 rev 2512

3C345.12DSJB, No0041, by
VLBA BR - KVNYS, fgroup W, pol LR



Fringe quality 0
SNR 6.3
Int time 419.802
Amp 0.169
Phase 98.5
PFD 9.6e-02
Delays (us)
SBD -0.132491
MBD -0.004566
Fringe rate (Hz)
0.937313
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
2020:086:183356
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

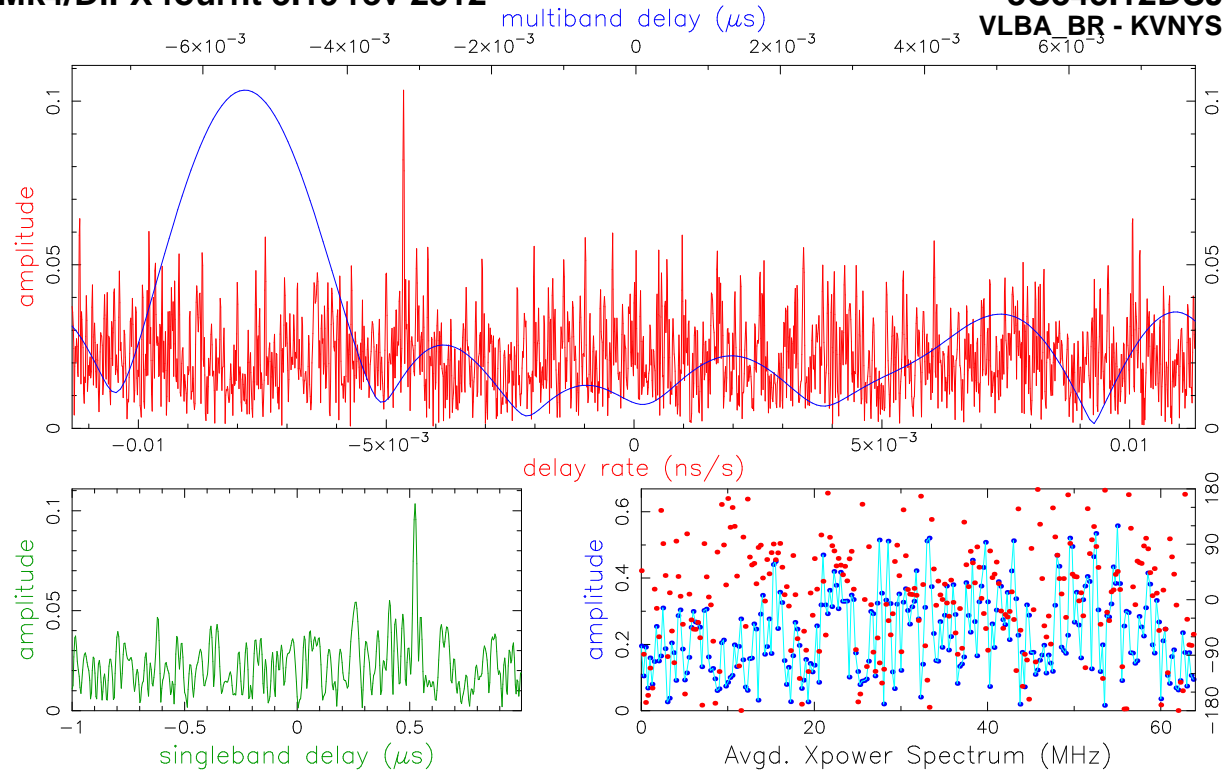


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
Group delay (usec)(sbd)	60.2	109.1	118.4	138.5	116.3	57.4	113.2	86.1	Phase	98.5	
Sband delay (usec)	0.1	0.1	0.1	0.1	0.3	0.2	0.3	0.2	Ampl.	0.2	
Phase delay (usec)	231.7	120.5	269.6	309.7	222.5	219.6	223.6	224.7	Sbd box	223.1	
Delay rate (us/s)	U/L 820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used		
	b 1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
	y 1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
b:y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
b:y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC		
b 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
y 1000	1000	1000	1000	1000	1000	1000	1000	1000			
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks		
									Tracks		
Group delay (usec)(sbd)	-1.45524743233E+03					-1.45511786622E+03			Resid mbdelay (usec)	-4.56611E-03	+/- 1.7E-04
Sband delay (usec)	-1.45525035747E+03					-2.9811533E+01			Resid sbdelay (usec)	-1.32491E-01	+/- 1.4E-03
Phase delay (usec)	-1.45511786304E+03					-3.4239506E-07			Resid phdelay (usec)	3.17627E-06	+/- 5.9E-07
Delay rate (us/s)	-1.43985285081E+00					-1.43986373208E+00			Resid rate (us/s)	1.08813E-05	+/- 2.4E-09
Total phase (deg)		-260.1				1.73328039208E-05			Resid phase (deg)	98.5	+/- 18.3

ph/seg (deg) 55.3 43.9 Search (2048X32) 0.110 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 71.6 76.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 31.5 25.9 Inc. seg. avg. 0.185 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 40.3 45.2 Inc. frq. avg. 0.170 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
b: az 283.1 el 45.8 pa 57.8 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) 10760.659 1922.875 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/by..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/by.W.42.12DSJB

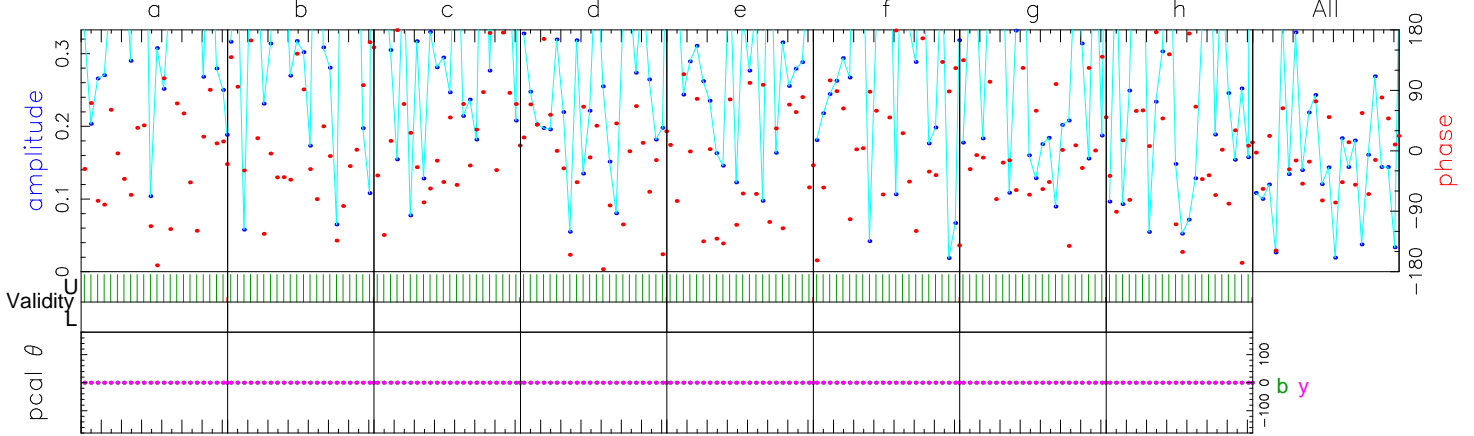
Mk4/DiFX fourfit 3.19 rev 2512

3C345.12DSJB, No0041, by VLBA_BR - KVNYS, fgroup W, pol LL



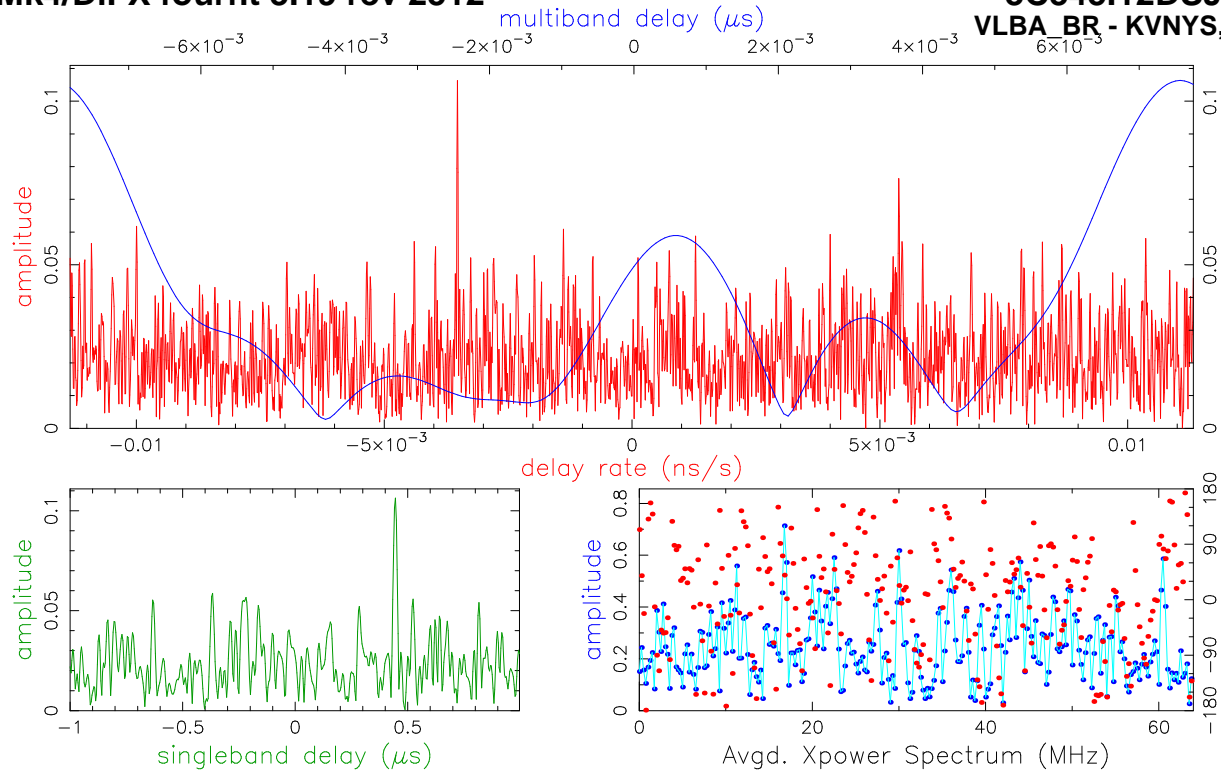
Fringe quality 0
 SNR 5.8
 Int time 419.802
 Amp 0.111
 Phase 0.4
 PFD 8.2e-01
 Delays (us)
 SBD 0.523486
 MBD -0.005417
 Fringe rate (Hz)
 -0.401491
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c192a
 Exper # 16383
 Yr:day 2019:277
 Start 040000.00
 Stop 040659.84
 FRT 040330.00
 Corr/FF/build
 2020:073:194659
 2020:086:183348
 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		
y	1000	1000	1000	1000	1000	1000	1000	1000		
b:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:y	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		
y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.45459203364E+03									
Sband delay (usec)	-1.45459437972E+03									
Phase delay (usec)	-1.45511786621E+03									
Delay rate (us/s)	-1.43986839299E+00									
Total phase (deg)			-358.3							
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)										

ph/seg (deg) 57.8 47.4 Amplitude 0.111 +/- 0.019 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 98.6 82.8 Search (2048X32) 0.102 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 16.6 28.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 25.4 48.8 Inc. seg. avg. 0.123 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 b: az 283.1 el 45.8 pa 57.8 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) 10760.659 1922.875 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/by..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/by.W.5.12DSJB simultaneous interpolator

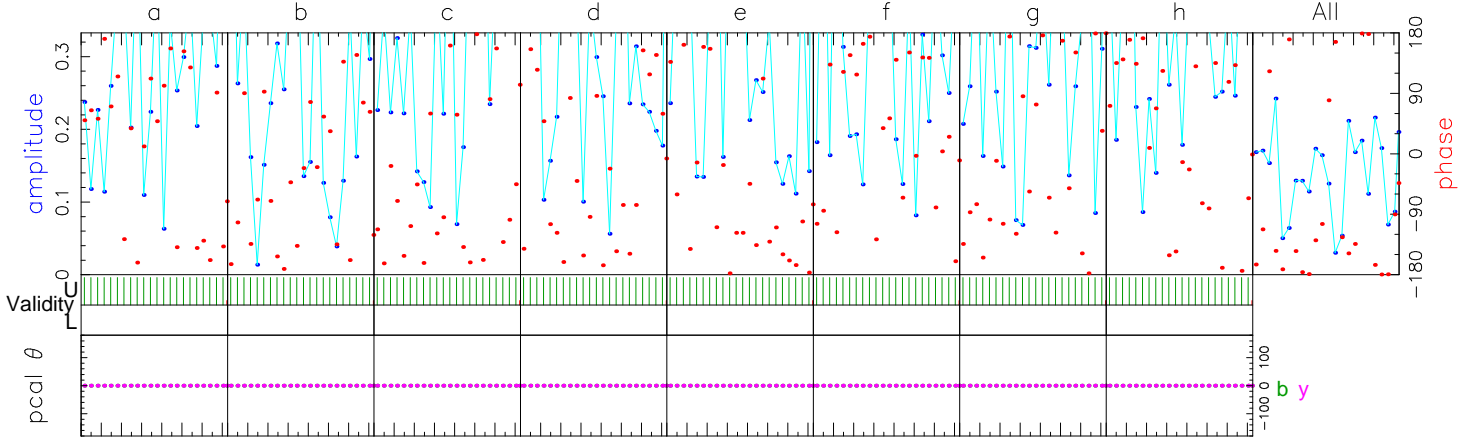


Fringe quality 0

SNR 6.0
Int time 419.803
Amp 0.111
Phase -157.6
PFD 4.5e-01
Delays (us)
SBD 0.444591
MBD -0.008082
Fringe rate (Hz)
-0.303391
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
2020:086:183400
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

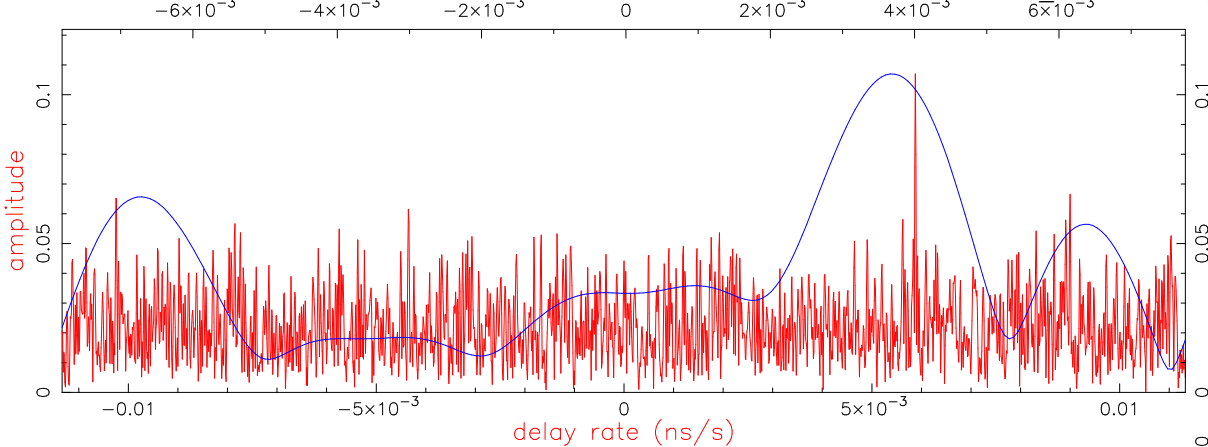


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
b:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-1.45467282278E+03									
Sband delay (usec)	-1.45467327572E+03									
Phase delay (usec)	-1.45511787130E+03									
Delay rate (us/s)	-1.43986725416E+00									
Total phase (deg)			-156.2							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
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										

b: az 283.1 el 45.8 pa 57.8 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) 10760.659 1922.875 simultaneous interpolator

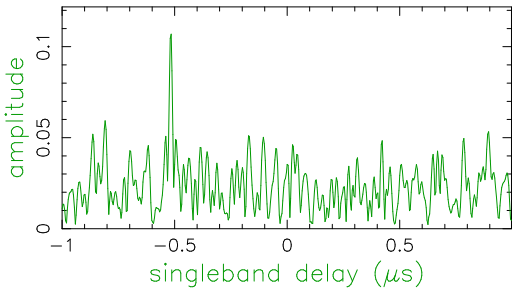
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/by..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/by.W.59.12DSJB

multiband delay (μ s)

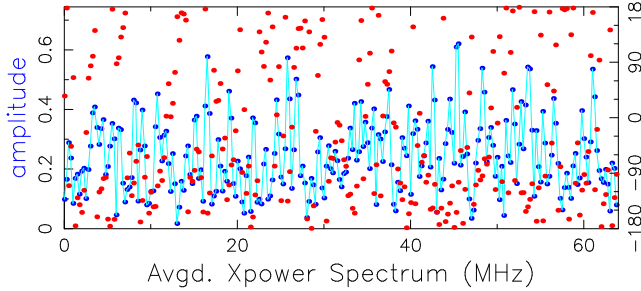


Fringe quality 0

SNR 6.1
Int time 419.830
Amp 0.122
Phase -16.3
PFD 2.5e-01
Delays (us)
SBD -0.517176
MBD 0.003670
Fringe rate (Hz)
0.507226
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

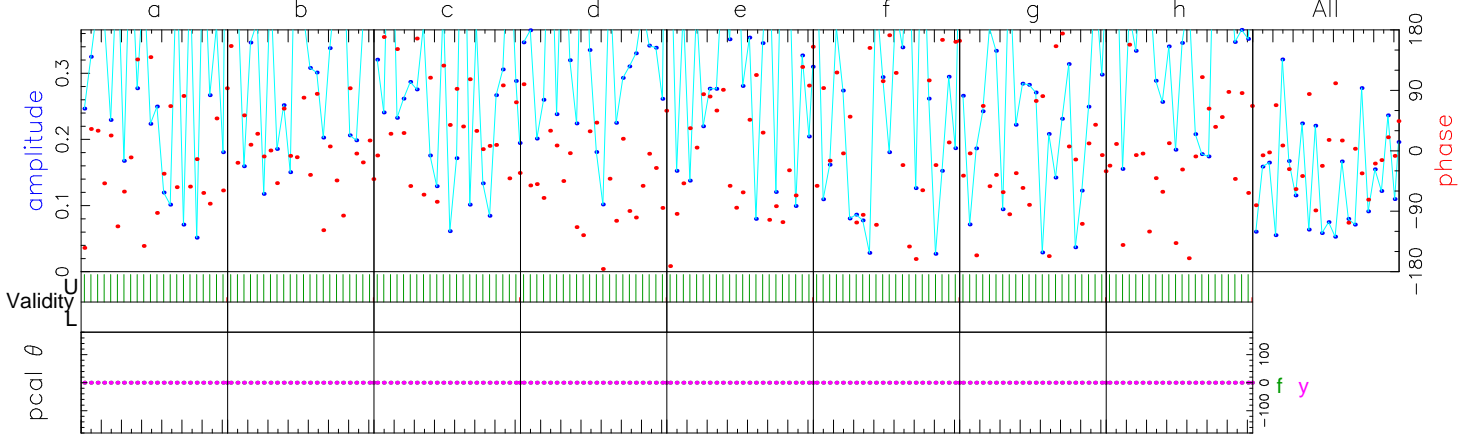


delay rate (ns/s)



Exp. c192a
Yr:day 16383
Start 2019:277
Stop 2019:277
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183413
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



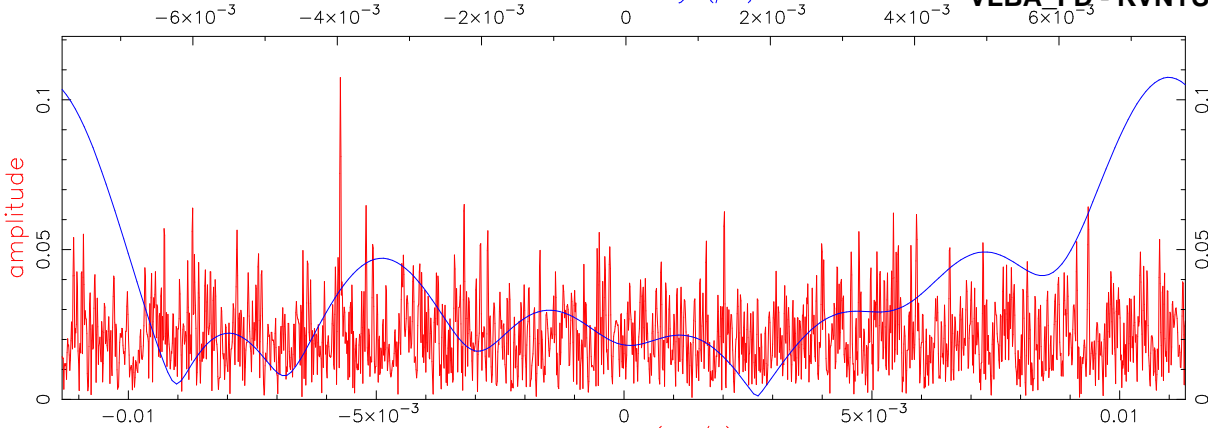
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
f:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-6.84730765806E+03	-6.84731287943E+03	-6.84679570396E+03	-1.73716336004E+00						
Sband delay (usec)										
Phase delay (usec)										
Delay rate (us/s)										
Total phase (deg)			-338.0							
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)									-16.3	+/- 18.8
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 51.8 45.1 Search (2048X32) 0.106 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 75.2 78.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 44.5 26.6 Inc. seg. avg. 0.119 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 51.9 46.4 Inc. frq. avg. 0.123 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 301.9 el 27.8 pa 71.6 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) 12992.234 1061.320 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/fy..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/fy.W.105.12DSJB simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

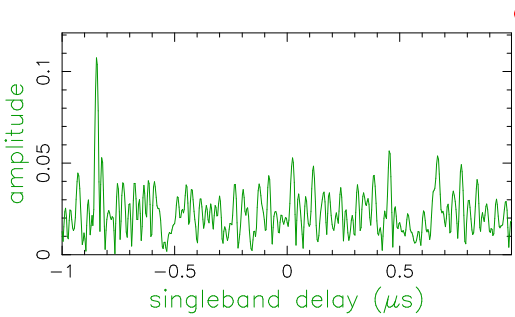
3C345.12DSJB, No0041, fy
VLBA_FD - KVNYS, fgroup W, pol LR

multiband delay (μ s)

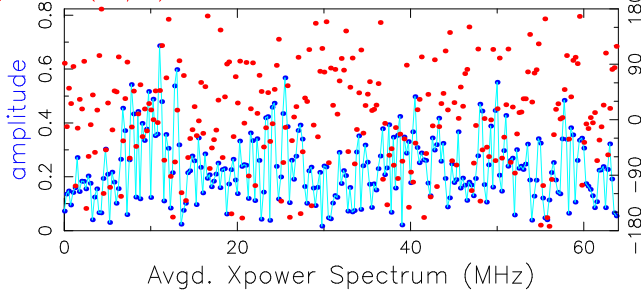


Fringe quality 0

SNR 6.1
Int time 419.830
Amp 0.121
Phase 74.1
PFD 2.5e-01
Delays (us)
SBD -0.846308
MBD -0.008136
Fringe rate (Hz)
-0.493748
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

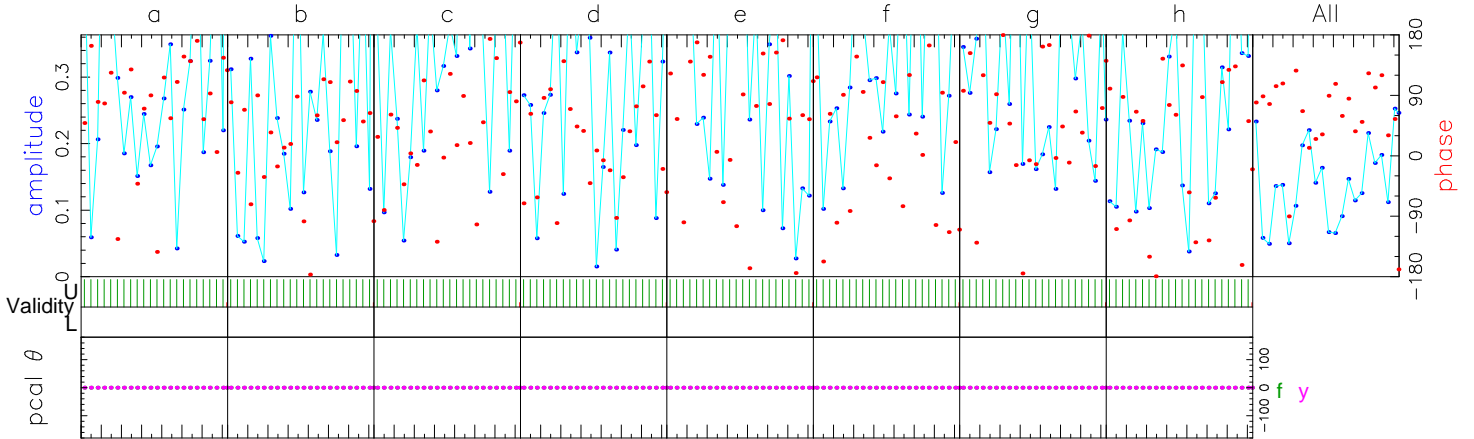


delay rate (ns/s)



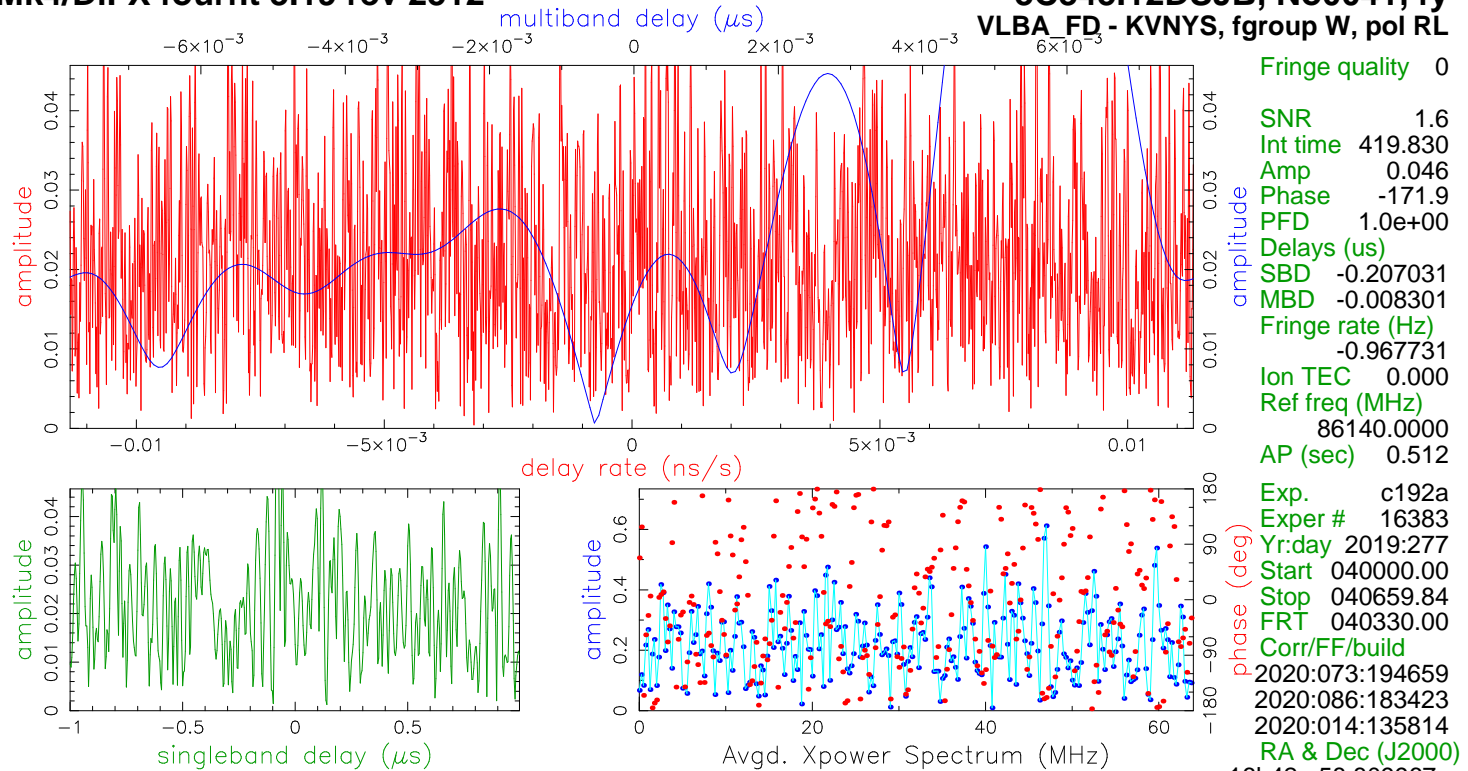
Exp. c192a
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183418
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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

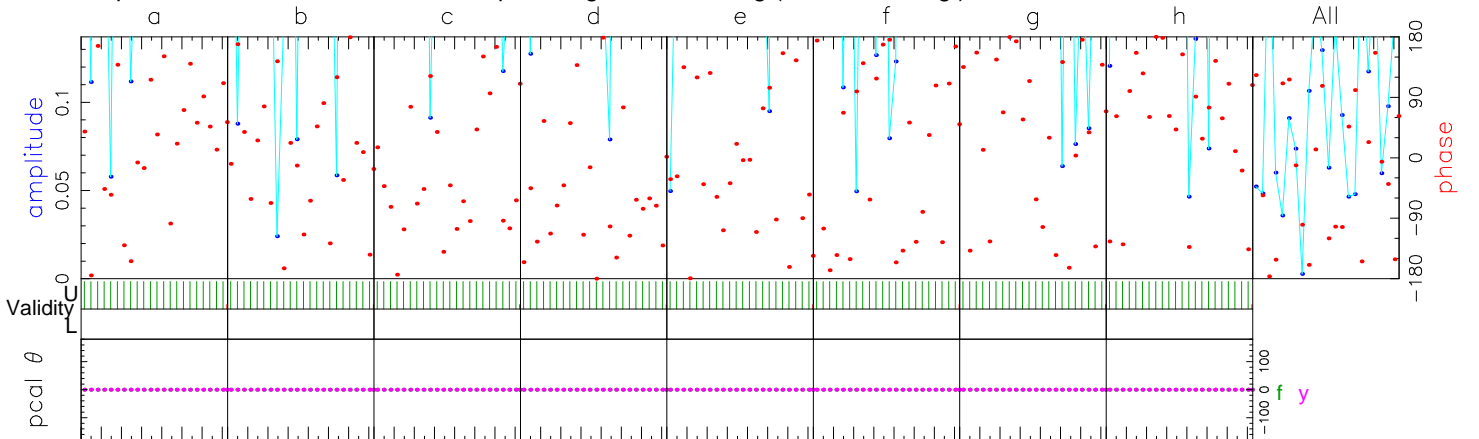


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
f:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-6.84764758934E+03									
Sband delay (usec)	-6.84764201168E+03									
Phase delay (usec)	-6.84679570104E+03									
Delay rate (us/s)	-1.73717498036E+00									
Total phase (deg)			-247.7							
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)									74.1	+/- 18.8
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

ph/seg (deg) 49.1 45.1 Search (2048X32) 0.103 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 62.1 78.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 32.5 26.6 Inc. seg. avg. 0.118 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 34.7 46.4 Inc. frq. avg. 0.121 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 301.9 el 27.8 pa 71.6 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) 12992.234 1061.320 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/fy..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/fy.W.125.12DSJB simultaneous interpolator

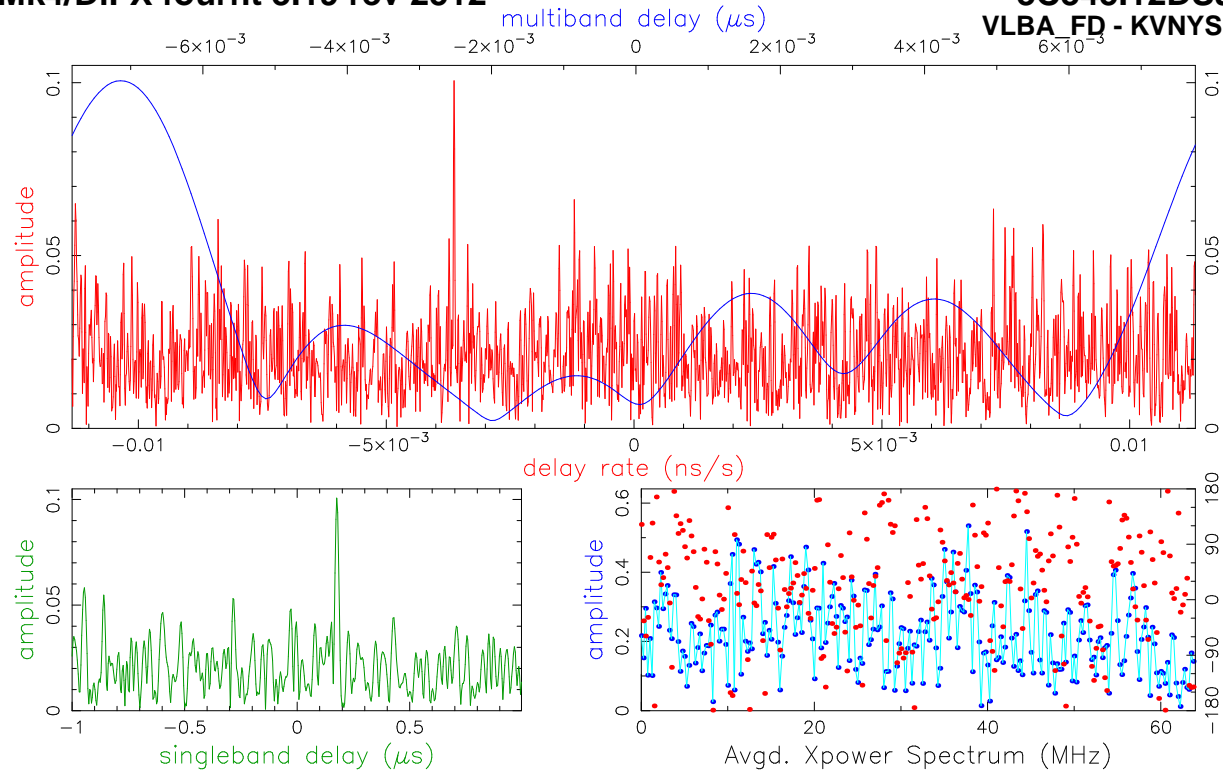


Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	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		
y	1000	1000	1000	1000	1000	1000	1000	1000		
f:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:y	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		
y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-6.84700712921E+03	-6.84700273468E+03	-6.84679570898E+03	-6.84679570343E+03	-6.84679570343E+03	-6.84679570343E+03	-6.84679570343E+03	-6.84679570343E+03	-8.30078E-03	+/- 6.6E-04
Sband delay (usec)	-6.84700273468E+03	-6.84700273468E+03	-6.84679570898E+03	-6.84679570343E+03	-6.84679570343E+03	-6.84679570343E+03	-6.84679570343E+03	-6.84679570343E+03	-2.07031E-01	+/- 5.2E-03
Phase delay (usec)	-6.84679570898E+03	-6.84679570898E+03	-6.84679570898E+03	-6.84679570898E+03	-6.84679570898E+03	-6.84679570898E+03	-6.84679570898E+03	-6.84679570898E+03	-5.54460E-06	+/- 2.2E-06
Delay rate (us/s)	-1.73718048283E+00	-1.73718048283E+00	-1.73718048283E+00	-1.73718048283E+00	-1.73718048283E+00	-1.73718048283E+00	-1.73718048283E+00	-1.73718048283E+00	-1.12344E-05	+/- 9.3E-09
Total phase (deg)			-133.7						-171.9	+/- 69.7
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)										
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
nlags: 256										
t_cohere infinite										

ph/seg (deg) 98.4 167.0 Search (2048X32) 0.105 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 327.1 291.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 108.8 98.5 Inc. seg. avg. 0.030 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 292.2 171.9 Inc. frq. avg. 0.068 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 301.9 el 27.8 pa 71.6 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) 12992.234 1061.320 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/fy..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/fy.W.148.12DSJB

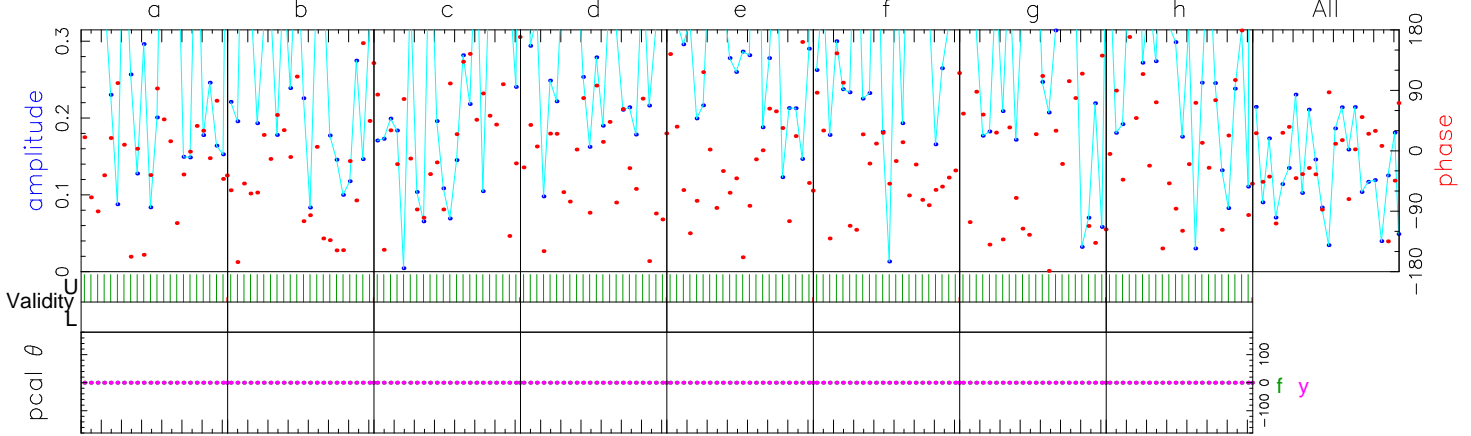


Fringe quality 0

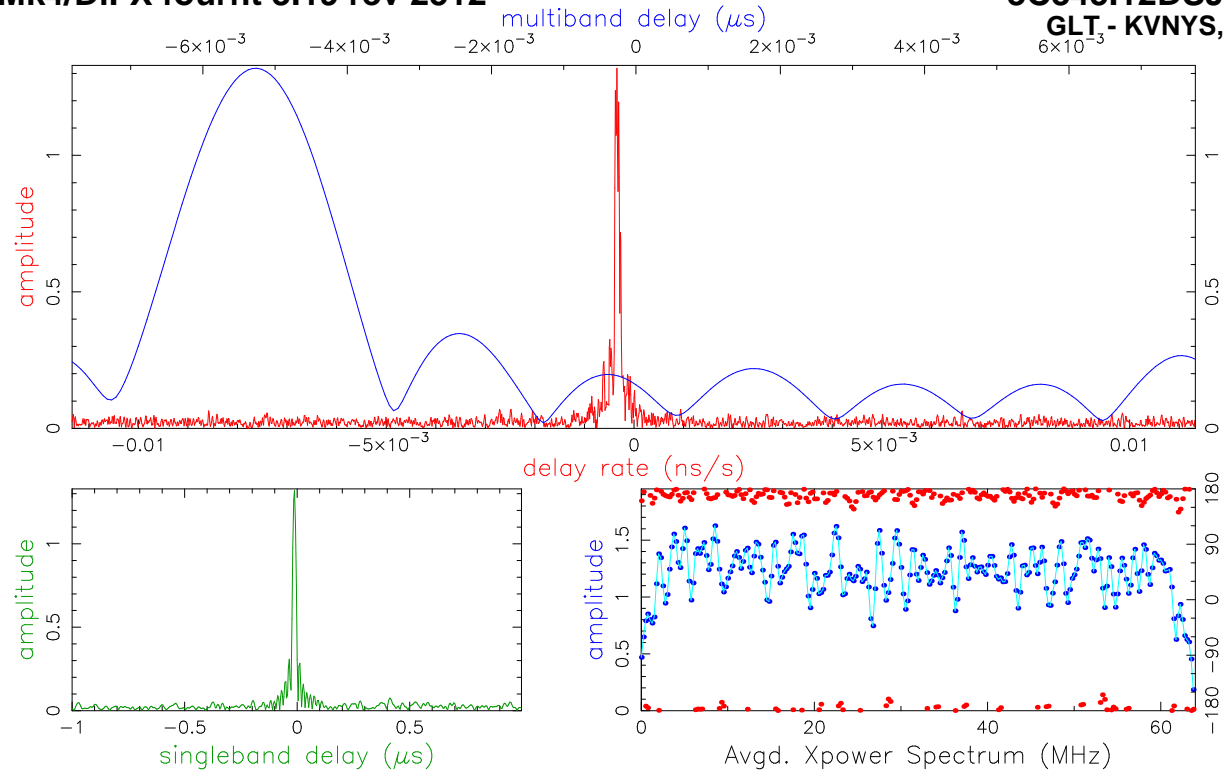
SNR 5.6
Int time 419.830
Amp 0.105
Phase -13.3
PFD 9.9e-01
Delays (us)
SBD 0.176087
MBD -0.007129
Fringe rate (Hz)
-0.312990
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183407
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		
y	1000	1000	1000	1000	1000	1000	1000	1000		
f:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:y	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		
y	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-6.84661533212E+03									
Sband delay (usec)	-6.84661961593E+03									
Phase delay (usec)	-6.84679570386E+03									
Delay rate (us/s)	-1.73717288194E+00									
Total phase (deg)			-335.0							
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)										
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										
Tracks										
Chan ids										
Tracks										
Chan ids										
Tracks										
RMS	53.5	48.7								
Theor.										
Amplitude										
Search (2048X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
0.105 +/- 0.019										
0.099										
0.000										
0.106										
0.100										
PCal mode: MANUAL, MANUAL										
PCal period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
-1.000 1.000										
-0.008 0.008										
-0.011 0.011										
0.00 0.00										

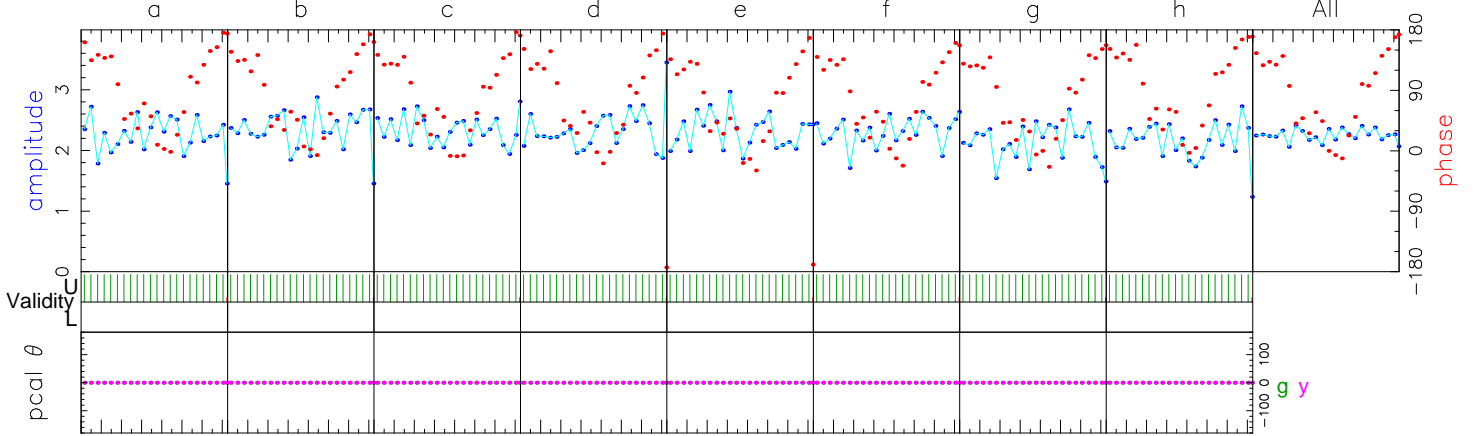


Fringe quality 5

SNR 74.4
Int time 419.605
Amp 1.330
Phase 85.4
PFD 0.0e+00
Delays (us)
SBD -0.012819
MBD -0.005273
Fringe rate (Hz)
-0.029145
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

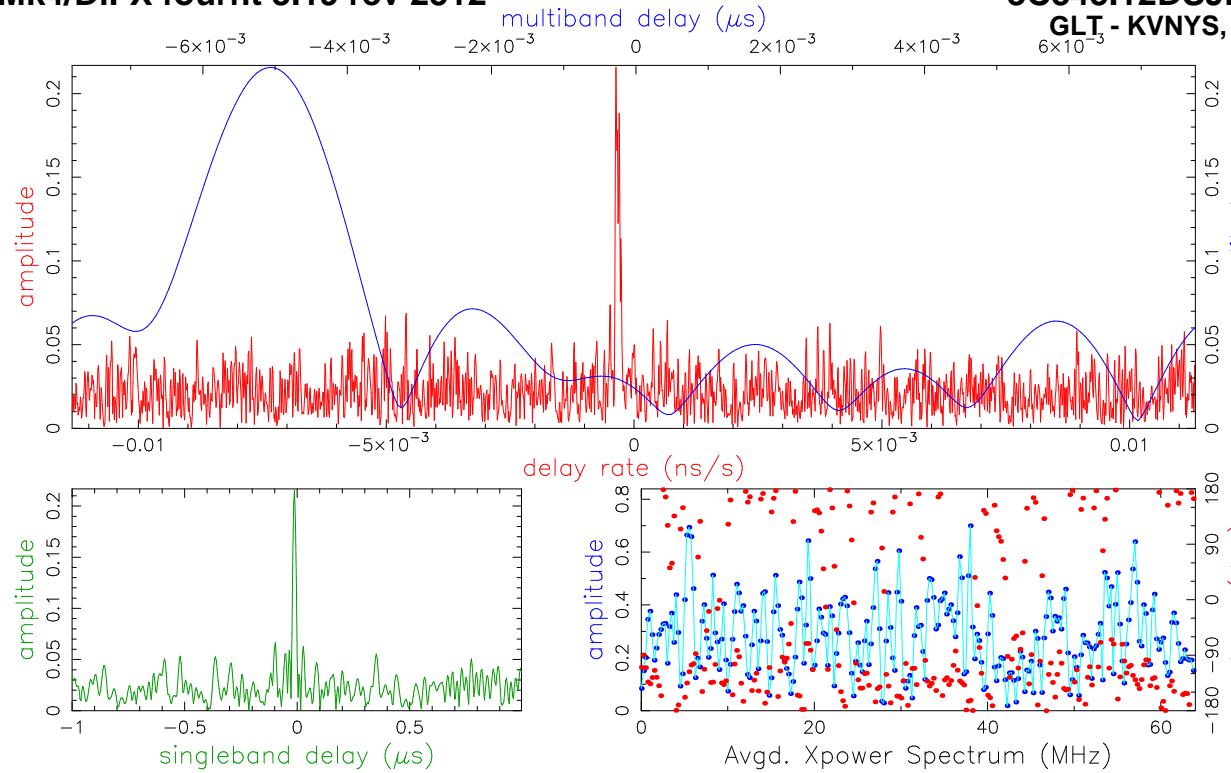
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183414
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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
90.6	87.3	85.8	82.3	74.6	84.5	78.2	100.0	100.0	Phase	85.4
1.3	1.4	1.4	1.3	1.3	1.4	1.3	1.3	1.3	Ampl.	1.3
253.5	253.7	253.7	253.7	253.7	253.7	253.9	253.7	253.8	Sbd box	253.7
U/L 820/0	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	0	PC freqs	
y 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
g:y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
g:y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
g 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y 1000	1000	1000	1000	1000	1000	1000	1000	1000		
g W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids	
y W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.88314776777E+03		Apriori delay (usec)	-4.88314249472E+03		Resid mbdelay (usec)	-5.27305E-03		+/-	1.5E-05
Sband delay (usec)	-4.88315531422E+03		Apriori clock (usec)	-2.7891859E+01		Resid sbdelay (usec)	-1.28195E-02		+/-	1.2E-04
Phase delay (usec)	-4.88314249196E+03		Apriori clockrate (us/s)	-2.4999994E-08		Resid phdelay (usec)	2.75513E-06		+/-	5.0E-08
Delay rate (us/s)	-9.85192079463E-01		Apriori rate (us/s)	-9.85191741121E-01		Resid rate (us/s)	-3.38342E-07		+/-	2.0E-10
Total phase (deg)		-92.8	Apriori accel (us/s/s)	5.20749378207E-05		Resid phase (deg)	85.4		+/-	1.5

ph/seg (deg) 55.8 3.7 Theor. Amplitude 1.330 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 70.2 6.4 Search (2048X32) 1.238 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 8.4 2.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 2.8 3.8 Inc. seg. avg. 2.254 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 g: az 301.9 el 33.5 pa 14.8 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) 7435.956 5792.324 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/gy..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/gy.W.107.12DSJB simultaneous interpolator

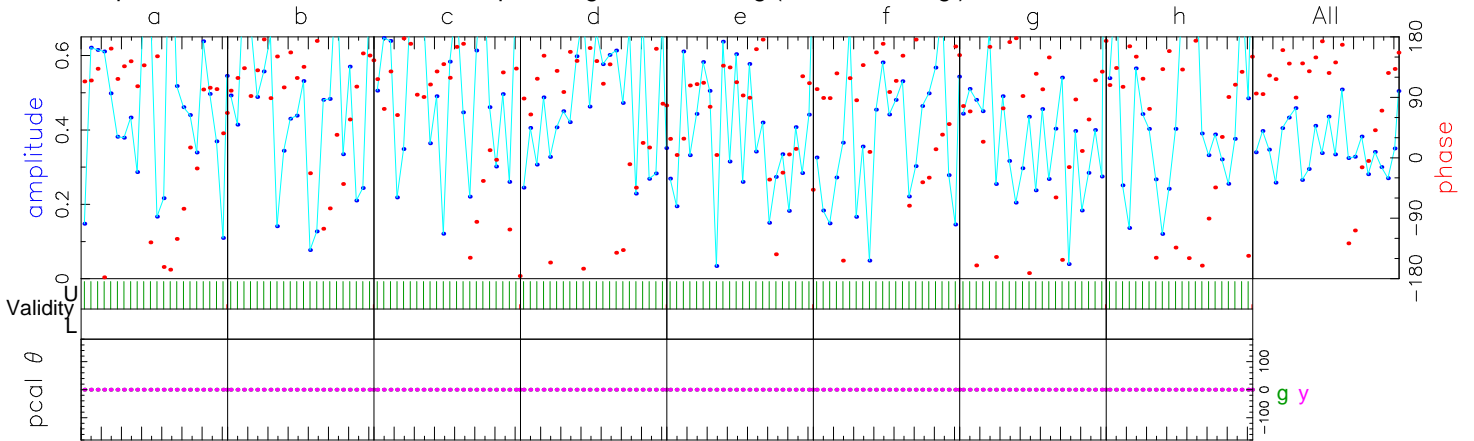


Fringe quality 9

SNR 12.1
Int time 419.600
Amp 0.217
Phase 127.9
PFD 3.3e-25
Delays (us)
SBD -0.012576
MBD -0.005077
Fringe rate (Hz)
-0.031765
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
2020:086:183418
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

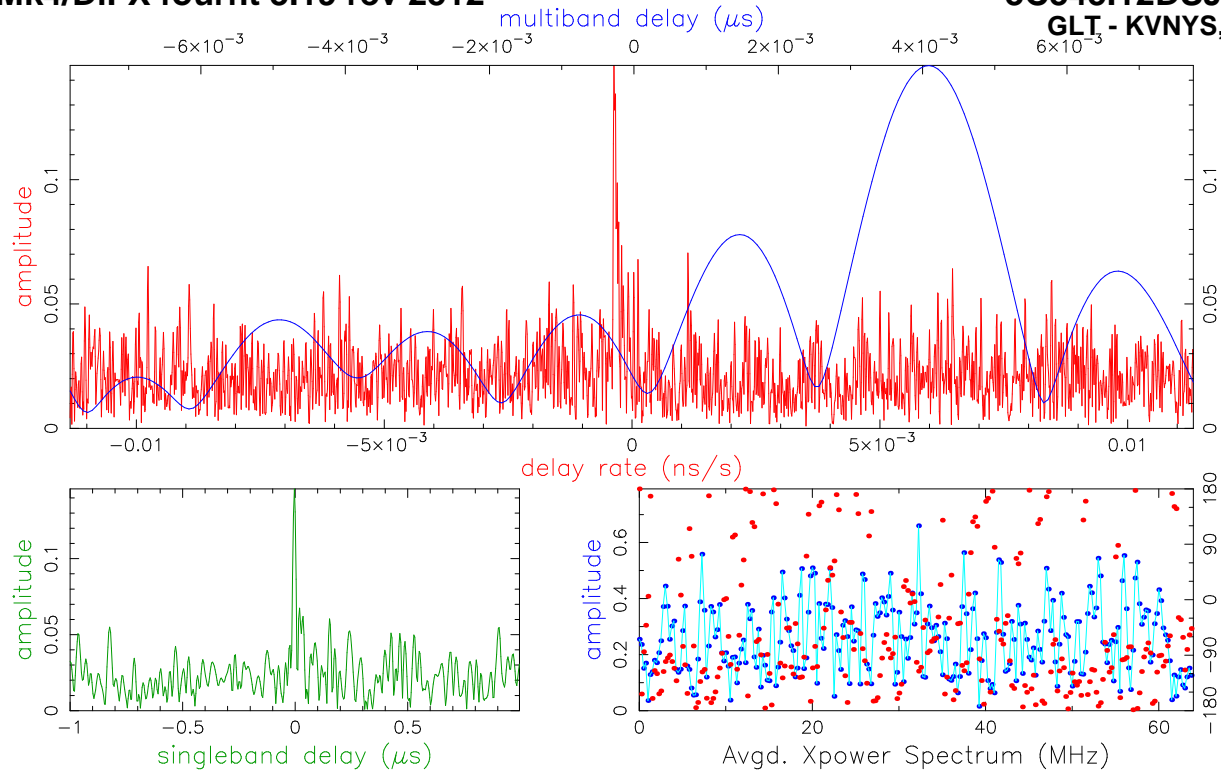
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	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		
y	1000	1000	1000	1000	1000	1000	1000	1000		
g:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:y	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		
y	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-4.88314757207E+03									
Sband delay (usec)	-4.88315507097E+03									
Phase delay (usec)	-4.88314249059E+03									
Delay rate (us/s)	-9.85192109877E-01									
Total phase (deg)			-50.3							
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 (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										
Chan ids										
Tracks										
Chan ids										
Tracks										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
simultaneous interpolator										

g: az 301.9 el 33.5 pa 14.8 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) 7435.956 5792.324

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/gy..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/gy.W.126.12DSJB

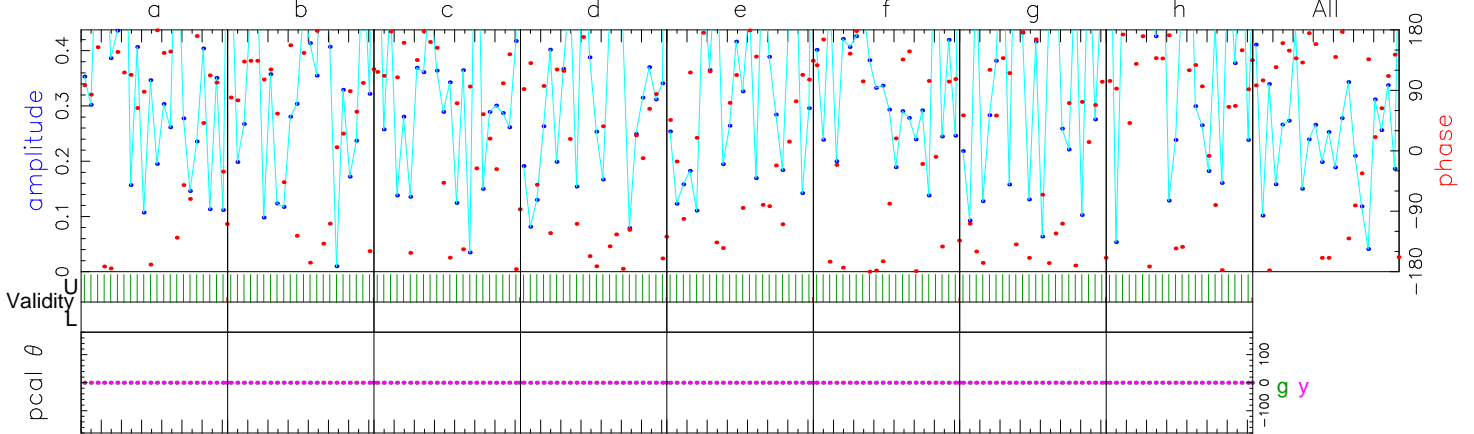


Fringe quality 9

SNR 8.2
Int time 419.605
Amp 0.146
Phase 150.6
PFD 1.1e-07
Delays (us)
SBD -0.003714
MBD 0.004078
Fringe rate (Hz)
-0.031614
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"

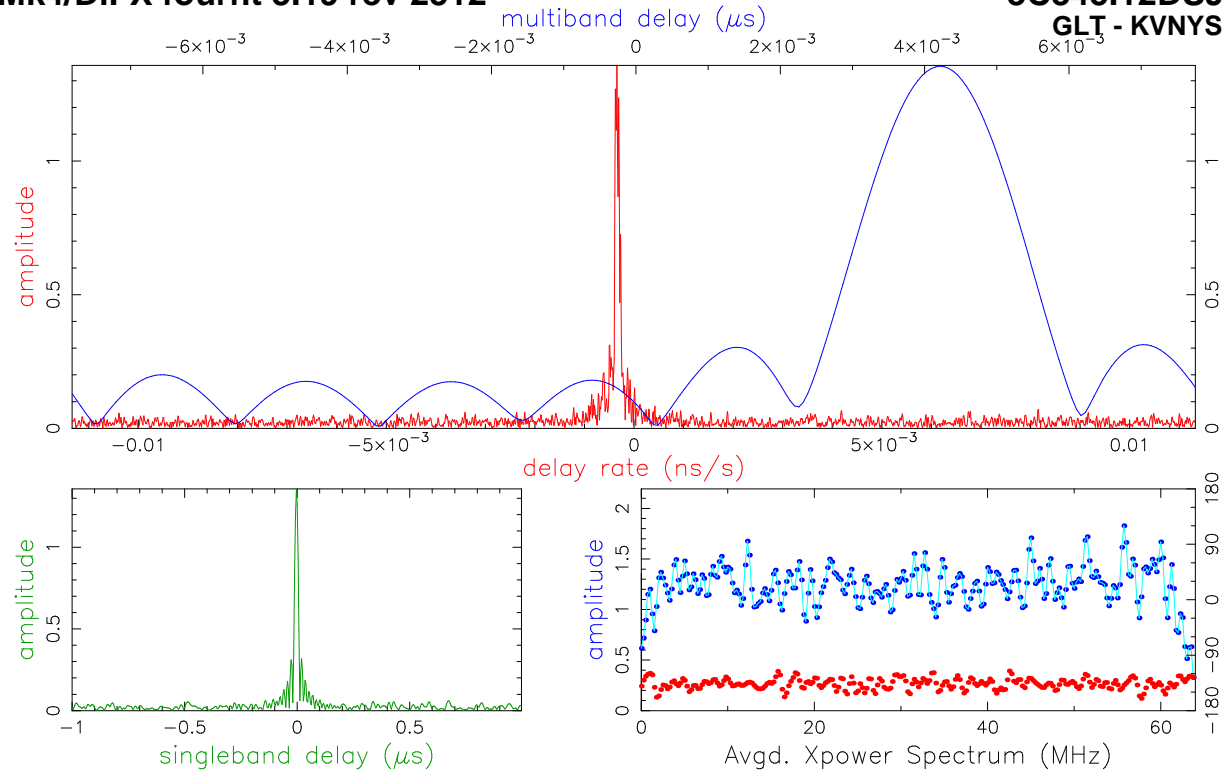
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	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			
g	0	0	0	0	0	0	0	0			
y	1000	1000	1000	1000	1000	1000	1000	1000			
g:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
g:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
y	1000	1000	1000	1000	1000	1000	1000	1000			
y	1000	1000	1000	1000	1000	1000	1000	1000			
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
Group delay (usec)(sbd)	-4.88313841704E+03				-4.88314249472E+03				4.07768E-03	+/- 1.3E-04	
Sband delay (usec)	-4.88314620847E+03				-2.7891859E+01				-3.71375E-03	+/- 1.1E-03	
Phase delay (usec)	-4.88314248986E+03				-2.4999994E-08				4.85793E-06	+/- 4.5E-07	
Delay rate (us/s)	-9.85192108129E-01				-9.85191741121E-01				-3.67008E-07	+/- 1.9E-09	
Total phase (deg)			-27.6		5.20749378207E-05				150.6	+/- 14.0	
	RMS	Theor.	Amplitude	0.146 +/- 0.018	Pcal mode: MANUAL, MANUAL				PC period (AP's) 5, 5		
ph/seg (deg)	65.2	33.6	Search (2048X32)	0.140	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000 1.000	
amp/seg (%)	97.2	58.7	Interp.	0.000	Bits/sample: 2x2				SampCntNorm: enabled	mb window (us)	-0.008 0.008
ph/frq (deg)	14.9	19.8	Inc. seg. avg.	0.210	Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011 0.011	
amp/frq (%)	42.6	34.6	Inc. frq. avg.	0.141	Data rate(Mb/s): 2048				nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

g: az 301.9 el 33.5 pa 14.8 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) 7435.956 5792.324 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/gy..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/gy.W.147.12DSJB

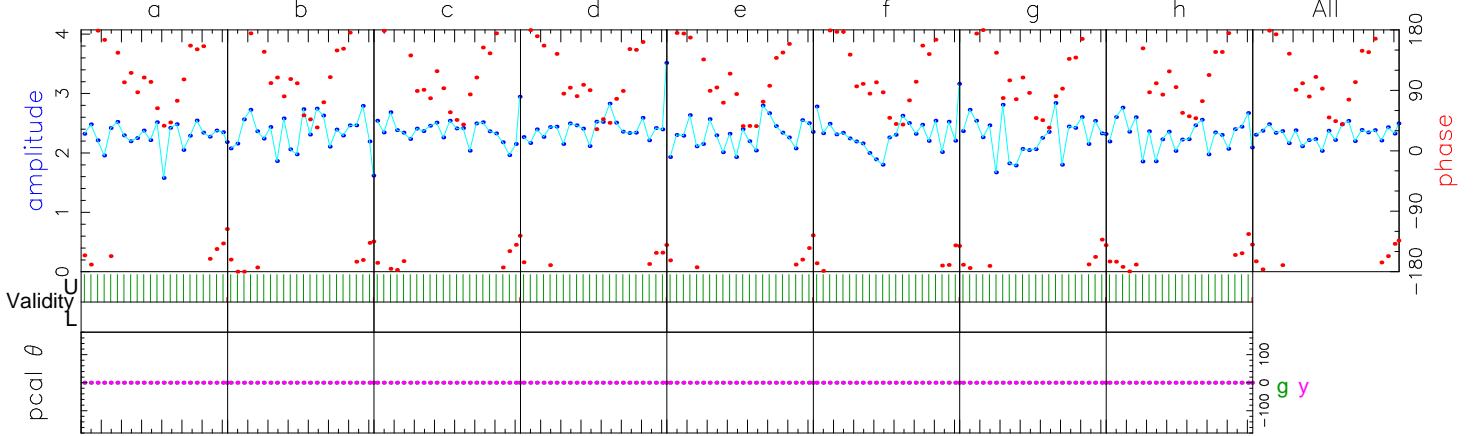


Fringe quality 5

SNR 76.0
Int time 419.600
Amp 1.358
Phase 136.9
PFD 0.0e+00
Delays (us)
SBD -0.003330
MBD 0.004215
Fringe rate (Hz)
-0.029153
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		
g	0	0	0	0	0	0	0	0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
g:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
g:y	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		
y	1000	1000	1000	1000	1000	1000	1000	1000		
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-4.88313827927E+03									
Sband delay (usec)	-4.88314582497E+03									
Phase delay (usec)	-4.88314249030E+03									
Delay rate (us/s)	-9.85192079562E-01									
Total phase (deg)			-41.3							
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)									136.9	+/- 1.5

ph/seg (deg) 55.7 3.6
amp/seg (%) 71.2 6.3
ph/frq (deg) 4.8 2.1
amp/frq (%) 2.6 3.7

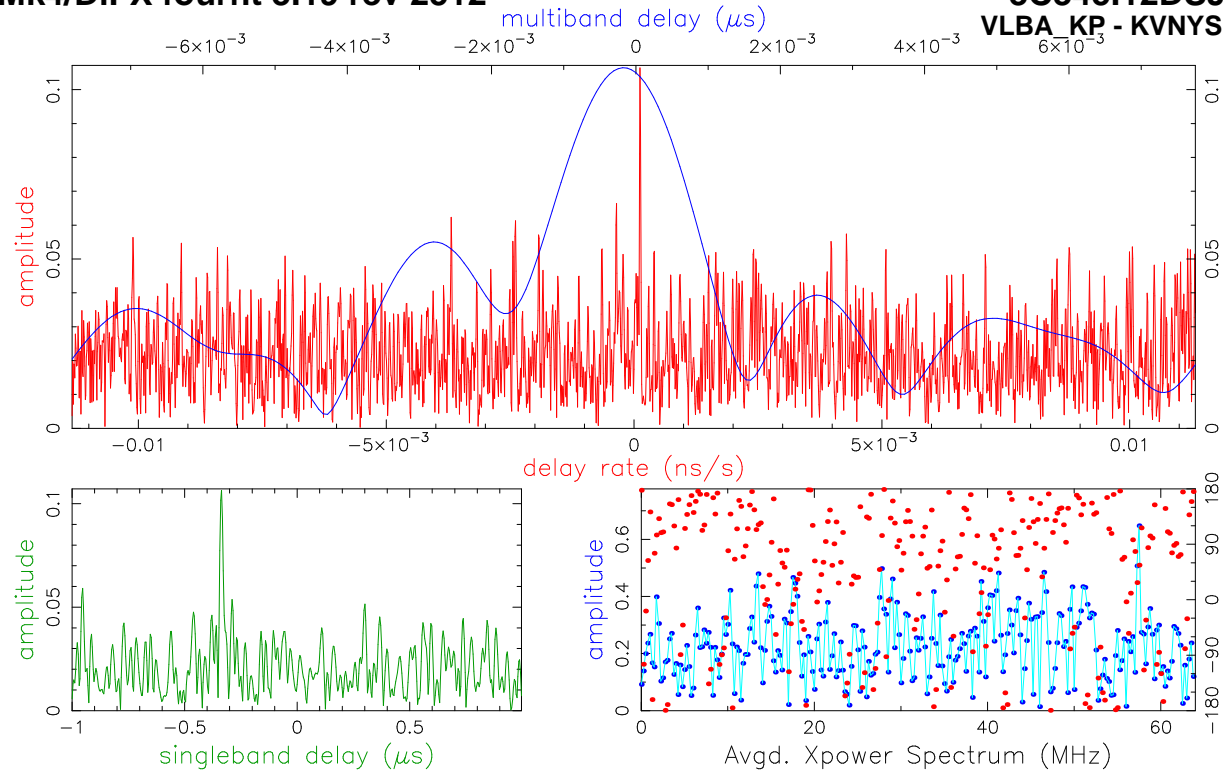
RMS Theor. Amplitude 1.358 +/- 0.018
Search (2048X32) 1.282
Interp. 0.000
Inc. seg. avg. 2.311
Inc. frq. avg. 1.357

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

g: az 301.9 el 33.5 pa 14.8 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) 7435.956 5792.324 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/gy..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/gy.W.92.12DSJB

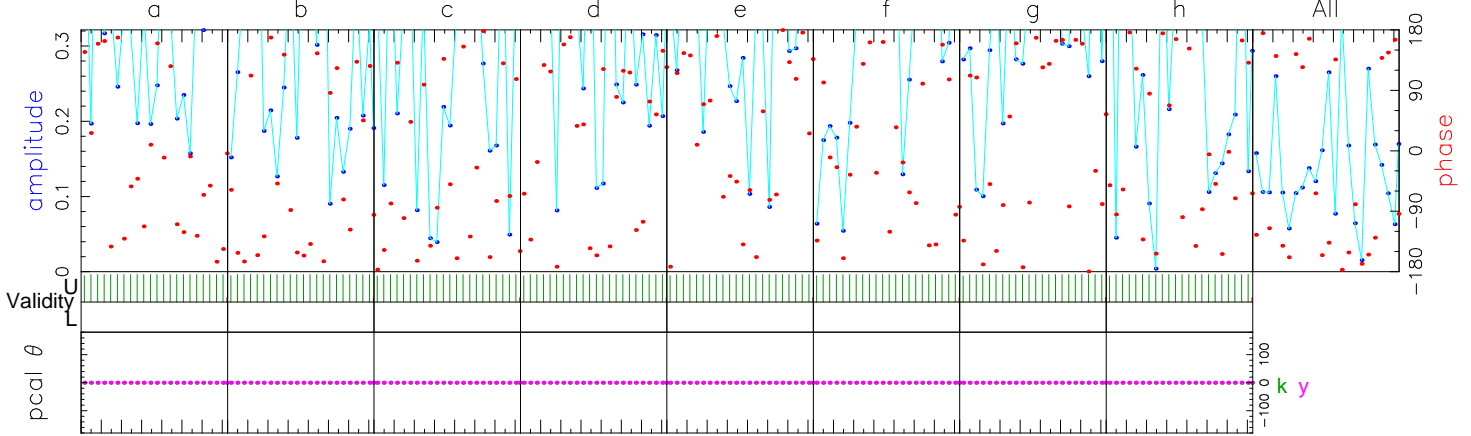


Fringe quality 0

SNR 6.0
Int time 418.958
Amp 0.107
Phase -167.2
PFD 4.0e-01
Delays (us)
SBD -0.336993
MBD -0.000207
Fringe rate (Hz) 0.010389
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		
y	1000	1000	1000	1000	1000	1000	1000	1000		
k:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-4.82693050655E+03	-4.82692354222E+03	-4.82658655486E+03	-1.68764677351E+00	-1.68764689411E+00	-1.68764689411E+00	-1.68764689411E+00	-1.68764689411E+00		
Sband delay (usec)	-4.82693050655E+03	-4.82692354222E+03	-4.82658655486E+03	-1.68764677351E+00	-1.68764689411E+00	-1.68764689411E+00	-1.68764689411E+00	-1.68764689411E+00		
Phase delay (usec)	-4.82693050655E+03	-4.82692354222E+03	-4.82658655486E+03	-1.68764677351E+00	-1.68764689411E+00	-1.68764689411E+00	-1.68764689411E+00	-1.68764689411E+00		
Delay rate (us/s)	-1.68764677351E+00	-1.68764677351E+00	-1.68764677351E+00	-1.68764677351E+00	-1.68764677351E+00	-1.68764677351E+00	-1.68764677351E+00	-1.68764677351E+00		
Total phase (deg)			-300.9							
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										
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)										
pcal mode: MANUAL, MANUAL										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

ph/seg (deg) 46.3 45.8
amp/seg (%) 79.8 79.9
ph/frq (deg) 31.5 27.0
amp/frq (%) 36.3 47.2

RMS Theor. Amplitude 0.107 +/- 0.018
46.3 45.8
79.8 79.9
31.5 27.0
36.3 47.2

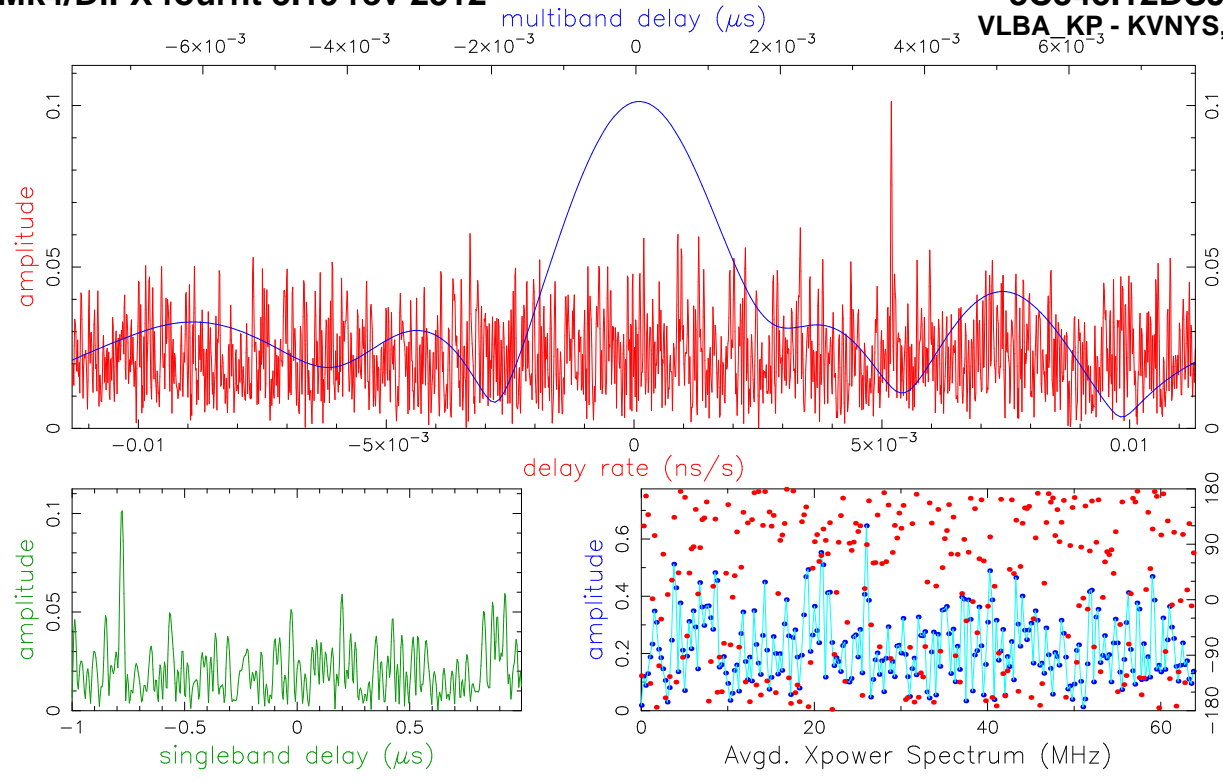
Search (2048X32) 0.103
Interp. 0.000
Inc. seg. avg. 0.107
Inc. frq. avg. 0.106

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

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

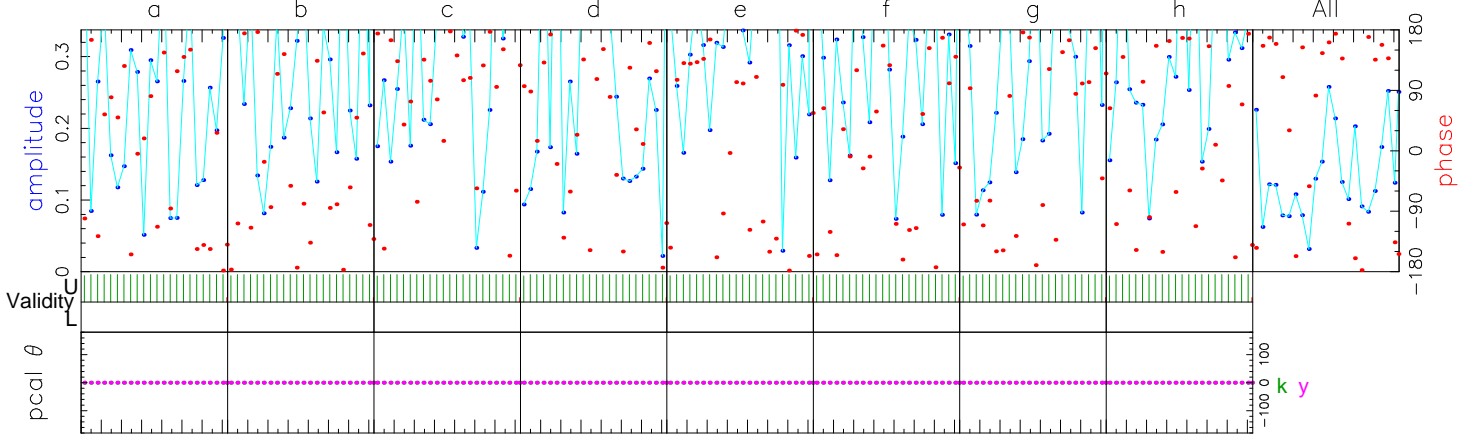
k: az 299.2 el 34.1 pa 74.3
y: az 70.3 el 50.4 pa -76.7
u,v (fr/asec) 12607.581 590.376

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/ky..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/ky.W.159.12DSJB simultaneous interpolator



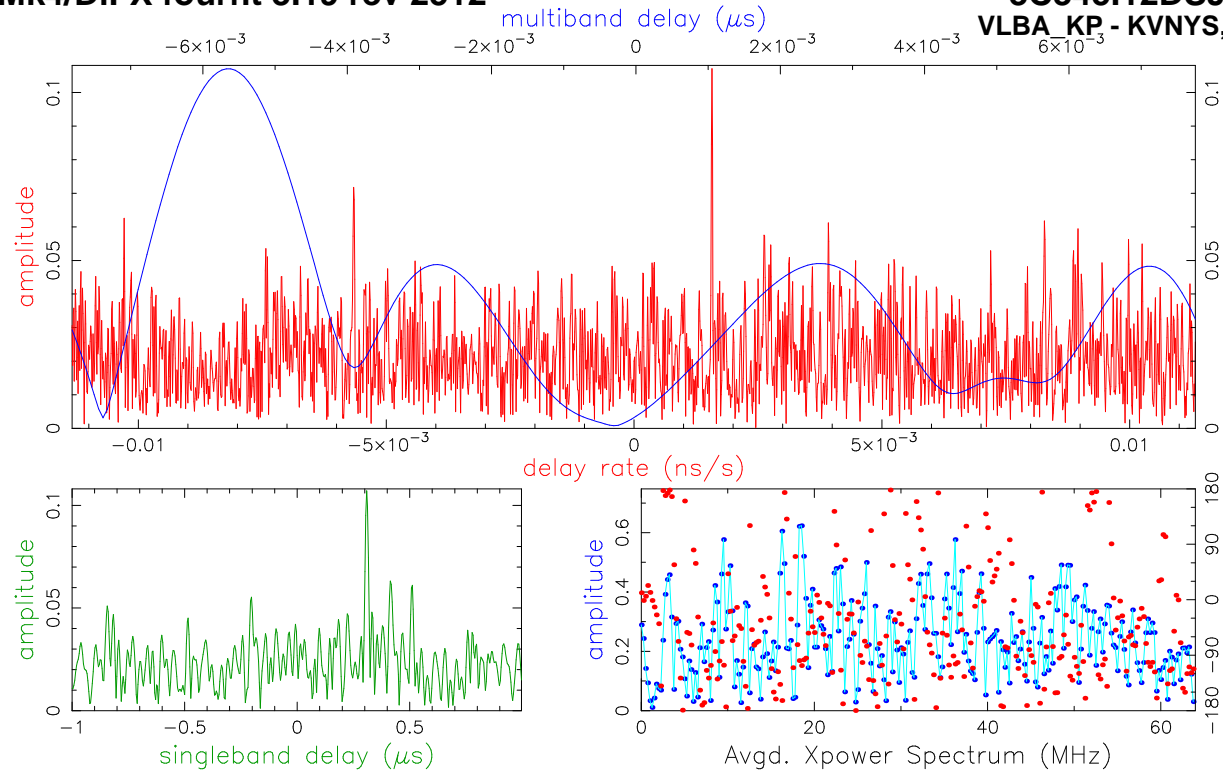
Fringe quality 0
SNR 5.8
Int time 418.958
Amp 0.112
Phase 166.8
PFD 8.7e-01
Delays (us)
SBD -0.779100
MBD 0.000039
Fringe rate (Hz)
0.448252
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
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		
k	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
k:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-4.82736776086E+03				-4.82658654947E+03				3.86154E-05	+/- 1.9E-04
Sband delay (usec)	-4.82736564922E+03				-2.9599121E+01				-7.79100E-01	+/- 1.5E-03
Phase delay (usec)	-4.82658654409E+03				-2.9457898E-07				5.37961E-06	+/- 6.4E-07
Delay rate (us/s)	-1.68764169035E+00				-1.68764689411E+00				5.20376E-06	+/- 2.6E-09
Total phase (deg)			33.1		1.97193452085E-05				166.8	+/- 19.9
	RMS	Theor.	Amplitude	0.112 +/- 0.020	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	55.5	47.7	Search (2048X32)	0.100	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
amp/seg (%)	67.0	83.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	34.7	28.1	Inc. seg. avg.	0.109	Sample rate(MISamp/s): 128		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	31.4	49.1	Inc. frq. avg.	0.113	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 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) 12607.581 590.376 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/ky..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/ky.W.185.12DSJB

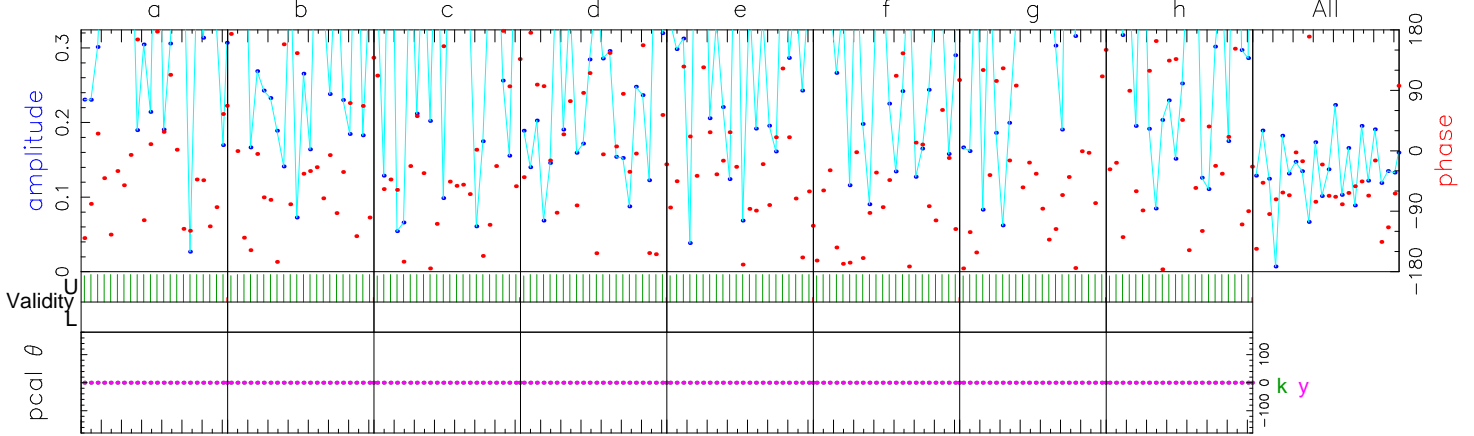


Fringe quality 0

SNR 6.0
Int time 418.958
Amp 0.108
Phase -62.9
PFD 4.0e-01
Delays (us)
SBD 0.309064
MBD -0.005638
Fringe rate (Hz)
0.135514
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

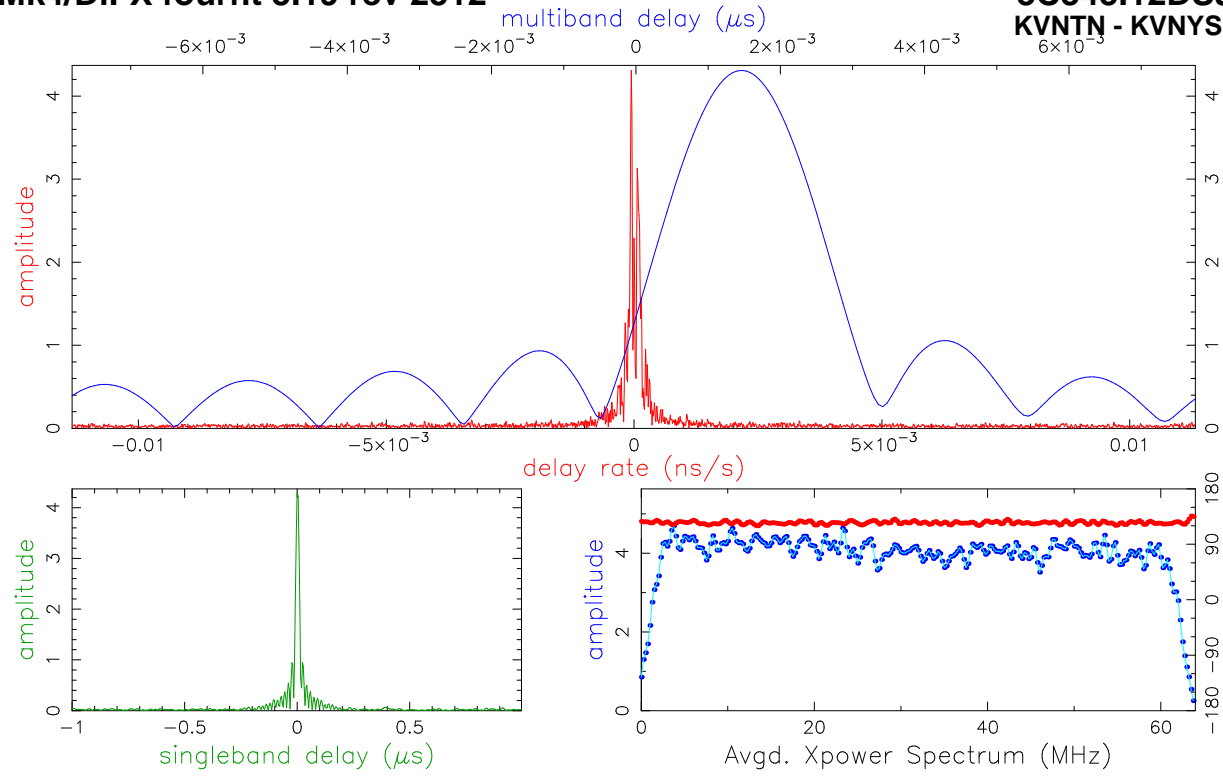
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183438
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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
	-59.6	-81.3	-56.4	77.5	-38.7	-93.2	-56.7	-77.4	Phase	-62.9
	0.2	0.1	0.2	0.0	0.1	0.1	0.2	0.1	Ampl.	0.1
	101.8	107.7	336.6	17.6	14.4	386.8	334.0	467.7	Sbd box	336.1
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.82627968735E+03		Apriori delay (usec)		-4.82658654947E+03		Resid mbdelay (usec)		-5.63788E-03	+/- 1.8E-04
Sband delay (usec)	-4.82627748522E+03		Apriori clock (usec)		-2.9599121E+01		Resid sbdelay (usec)		3.09064E-01	+/- 1.4E-03
Phase delay (usec)	-4.82658655150E+03		Apriori clockrate (us/s)		-2.9457898E-07		Resid phdelay (usec)		-2.02995E-06	+/- 6.2E-07
Delay rate (us/s)	-1.68764532093E+00		Apriori rate (us/s)		-1.68764689411E+00		Resid rate (us/s)		1.57318E-06	+/- 2.5E-09
Total phase (deg)			Apriori accel (us/s/s)		1.97193452085E-05		Resid phase (deg)		-62.9	+/- 19.1

ph/seg (deg) 46.1 45.8 Search (2048X32) 0.105 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 51.5 79.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 60.4 27.0 Inc. seg. avg. 0.104 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 46.0 47.1 Inc. frq. avg. 0.106 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 k: az 299.2 el 34.1 pa 74.3 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) 12607.581 590.376 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/ky..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/ky.W.204.12DSJB

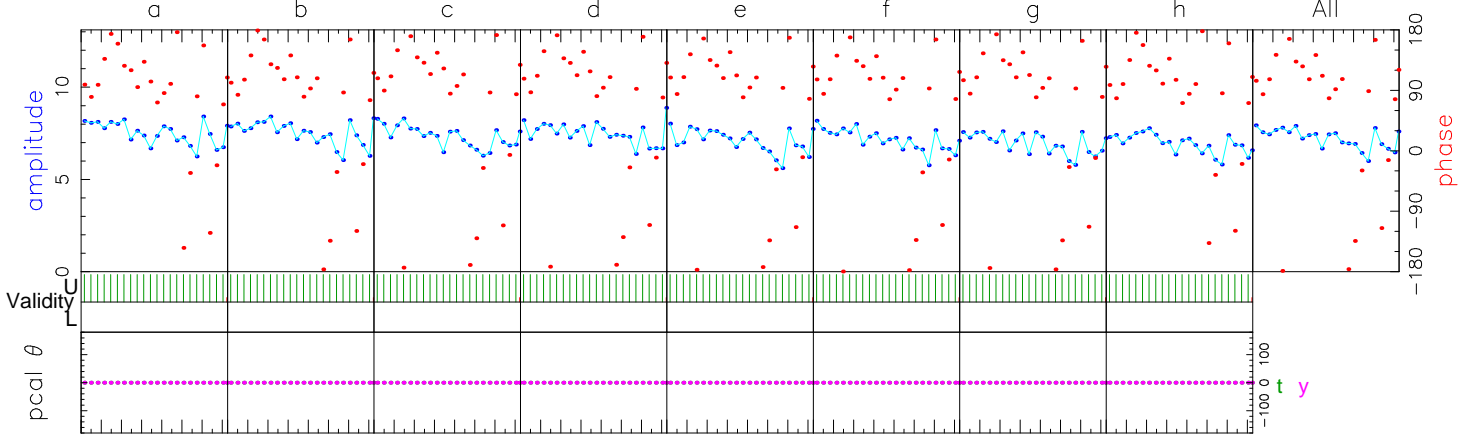


Fringe quality 5

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		
y	1000	1000	1000	1000	1000	1000	1000	1000		
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:y	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		
y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

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

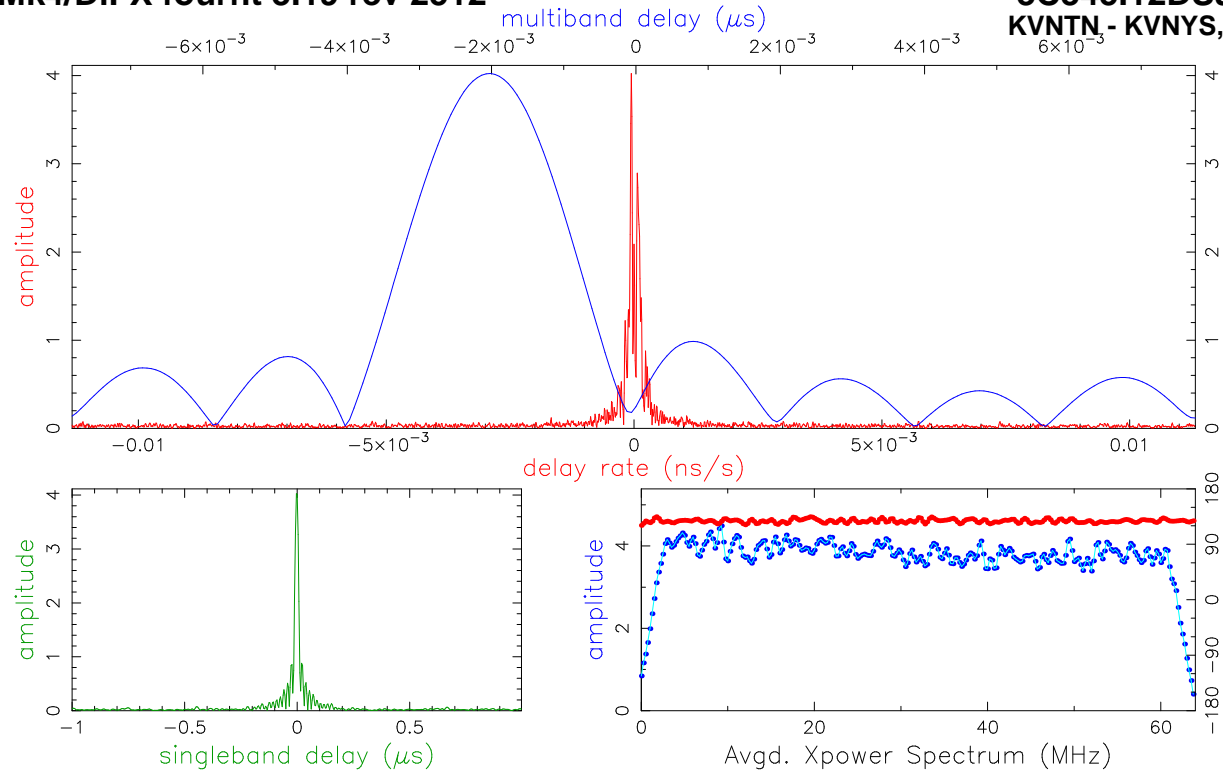
ph/seg (deg)	63.2	1.1	Search (2048X32)	4.297	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	66.3	2.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	5.0	0.7	Inc. seg. avg.	7.217	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	3.3	1.2	Inc. frq. avg.	4.322	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 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

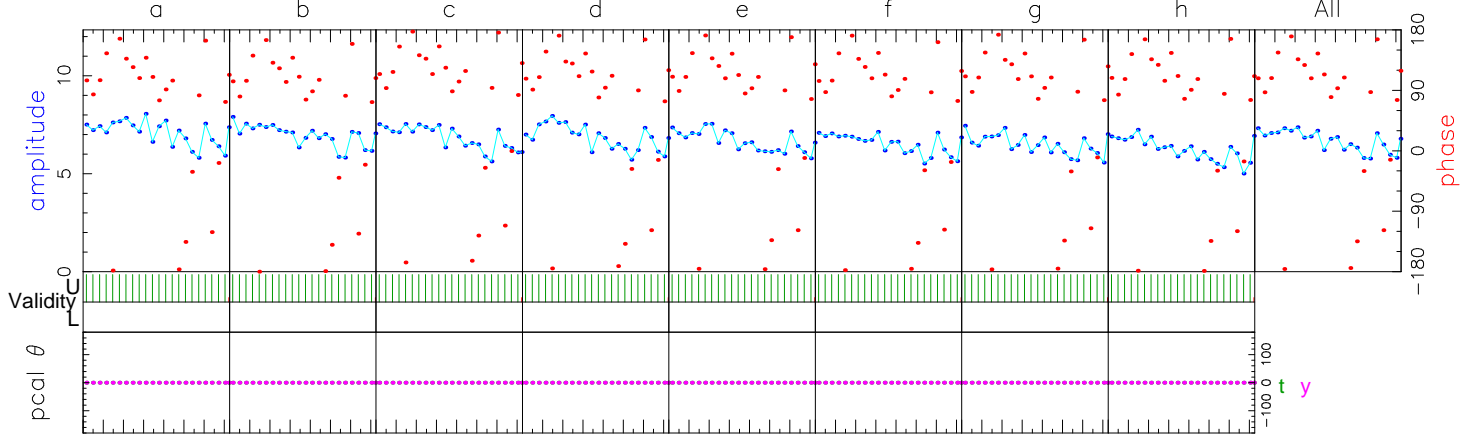


Fringe quality 5

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

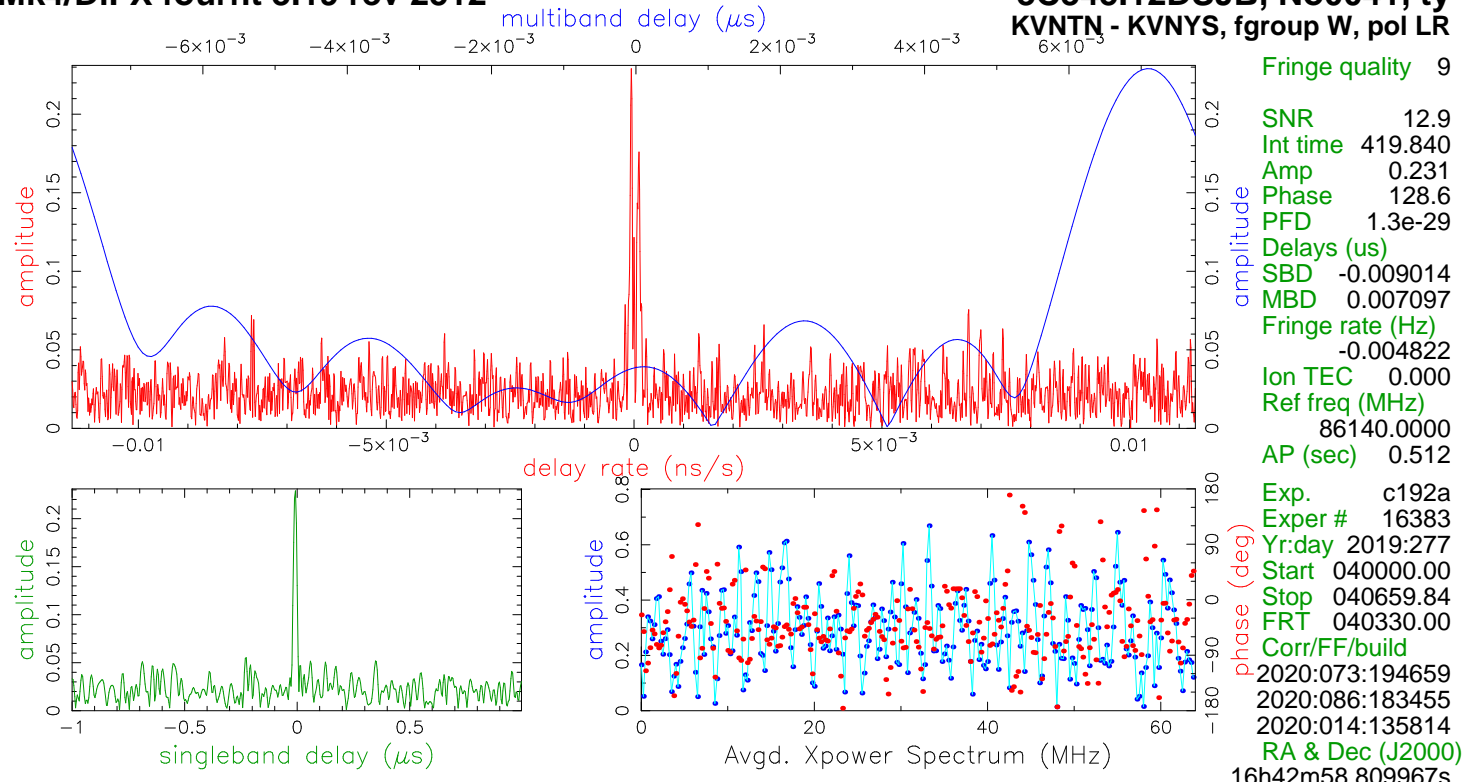
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183452
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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		
y	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		
t	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-4.66578750303E+02									
Sband delay (usec)	-4.66578732442E+02									
Phase delay (usec)	-4.66576717328E+02									
Delay rate (us/s)	4.50166013822E-02									
Total phase (deg)			-155.0							
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)										
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) 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 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 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/ty..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/ty.W.255.12DSJB simultaneous interpolator



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

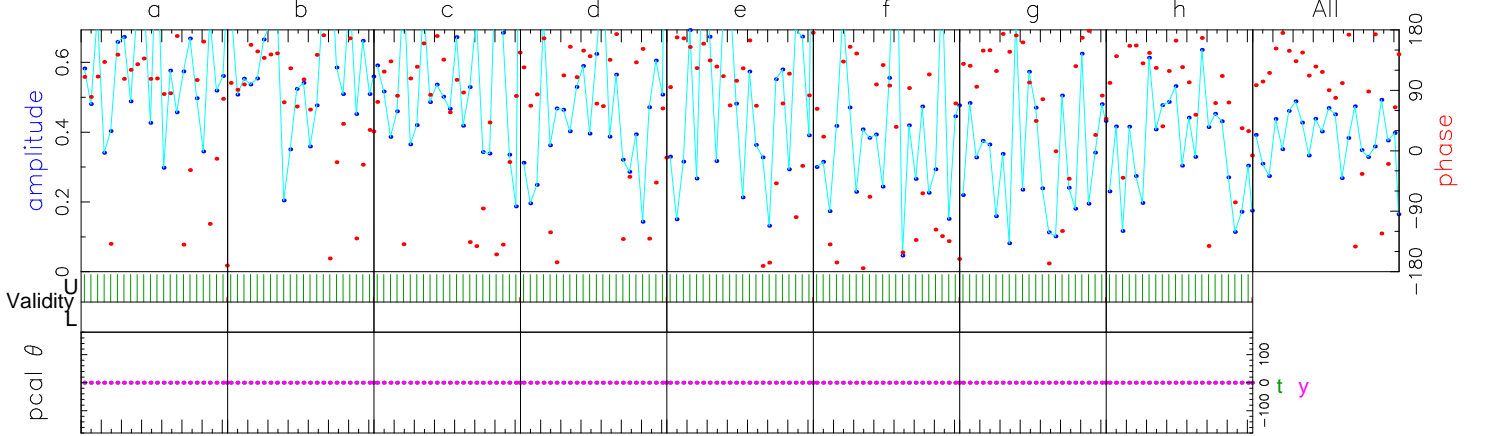
2020:014:135814

RA & Dec (J2000)

16h42m58.809967s

+39°48'36.993984"

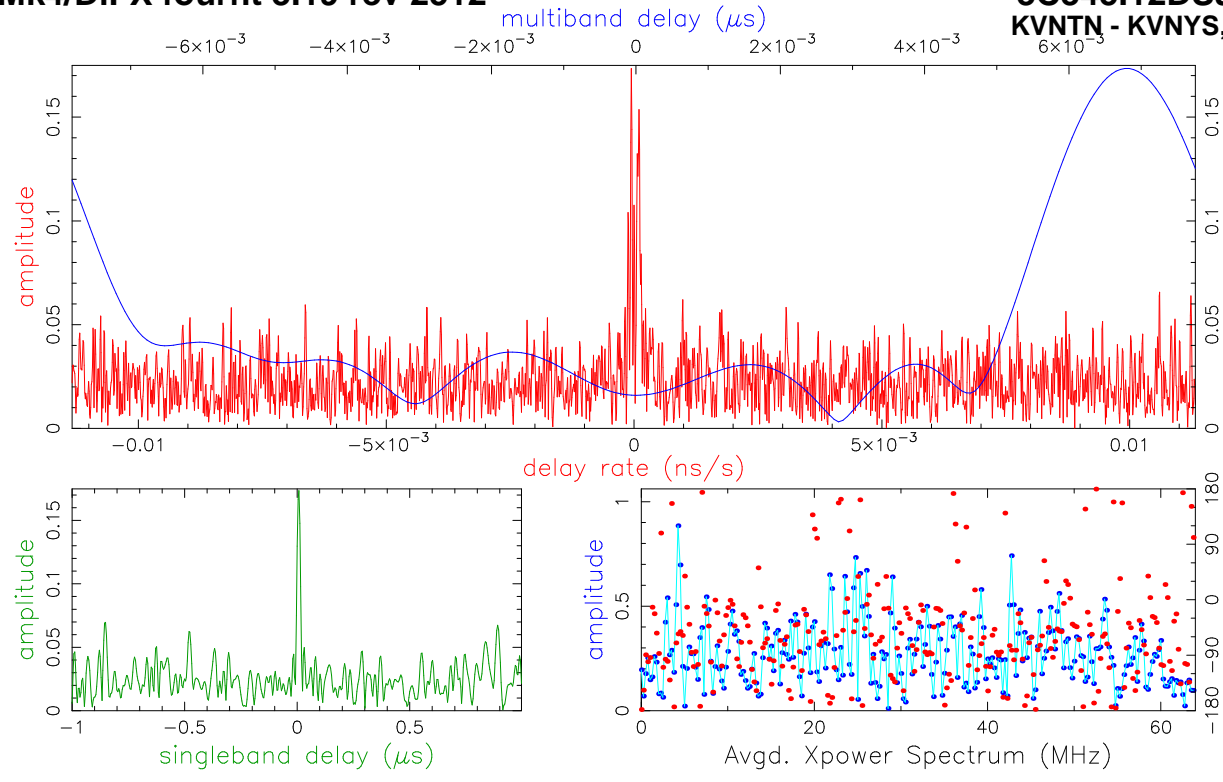
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	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			
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	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids			
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks			
									Tracks			
Group delay (usec)(sbd)	-4.66585249709E+02								7.09673E-03	+/- 8.4E-05		
Sband delay (usec)	-4.66585735442E+02								-9.01400E-03	+/- 6.7E-04		
Phase delay (usec)	-4.66576717297E+02								4.14547E-06	+/- 2.9E-07		
Delay rate (us/s)	4.50166017874E-02								-5.59817E-08	+/- 1.2E-09		
Total phase (deg)			-154.1						128.6	+/- 8.8		
				Apriori delay (usec)	-4.66576721442E+02				Resid mbdelay (usec)			
				Apriori clock (usec)	-1.4825573E+00				Resid sbdelay (usec)			
				Apriori clockrate (us/s)	1.0000001E-07				Resid phdelay (usec)			
				Apriori rate (us/s)	4.50166577692E-02				Resid rate (us/s)			
				Apriori accel (us/s/s)	-1.91137878213E-06				Resid phase (deg)			
ph/seg (deg)	63.1	21.2		Search (2048X32)	0.224				PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	75.7	37.0		Interp.	0.000				PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
ph/frq (deg)	9.4	12.5		Inc. seg. avg.	0.367				Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
amp/frq (%)	27.6	21.8		Inc. frq. avg.	0.226				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 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

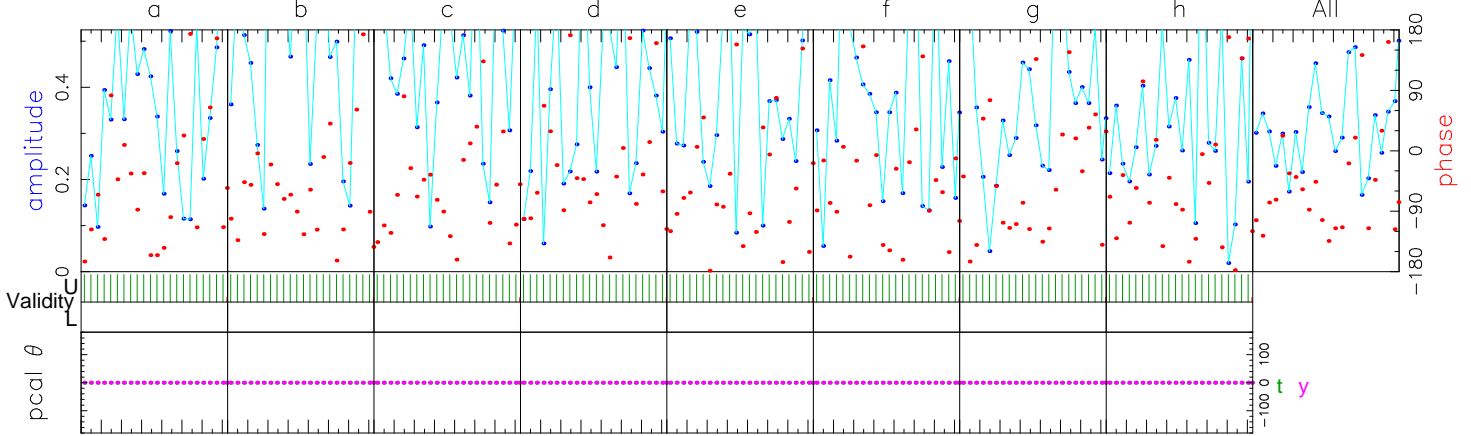


Fringe quality 9

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"

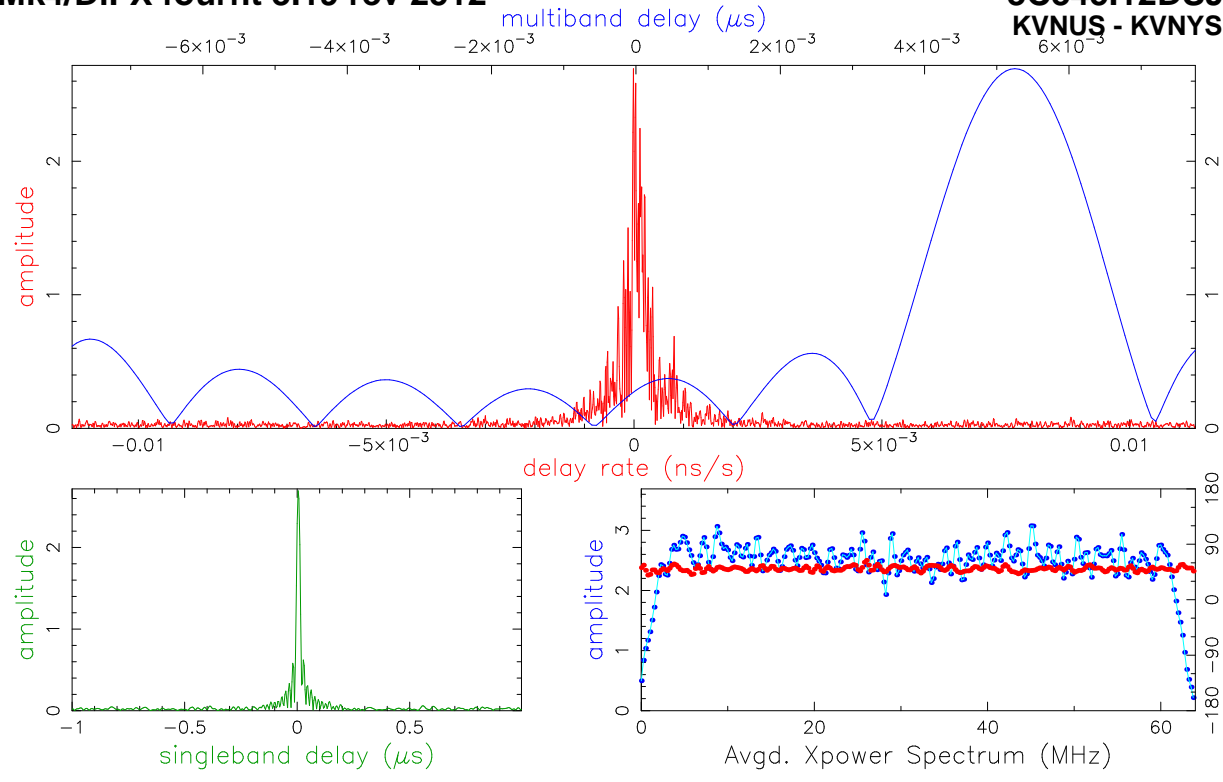
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	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		
t	63000	63000	63000	63000	63000	63000	63000	63000		
y	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		
t	1000	1000	1000	1000	1000	1000	1000	1000		
y	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	
ph/seg (deg)	63.0	28.0	Search (2048X32)	0.172	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				sb window (us)	-1.000 1.000
amp/seg (%)	93.4	48.9	Interp.	0.000	Bits/sample: 2x2				SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	18.4	16.5	Inc. seg. avg.	0.280	Sample rate(MISamp/s): 128				dr window (ns/s)	-0.011 0.011
amp/frq (%)	31.8	28.9	Inc. frq. avg.	0.173	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.287.12DSJB

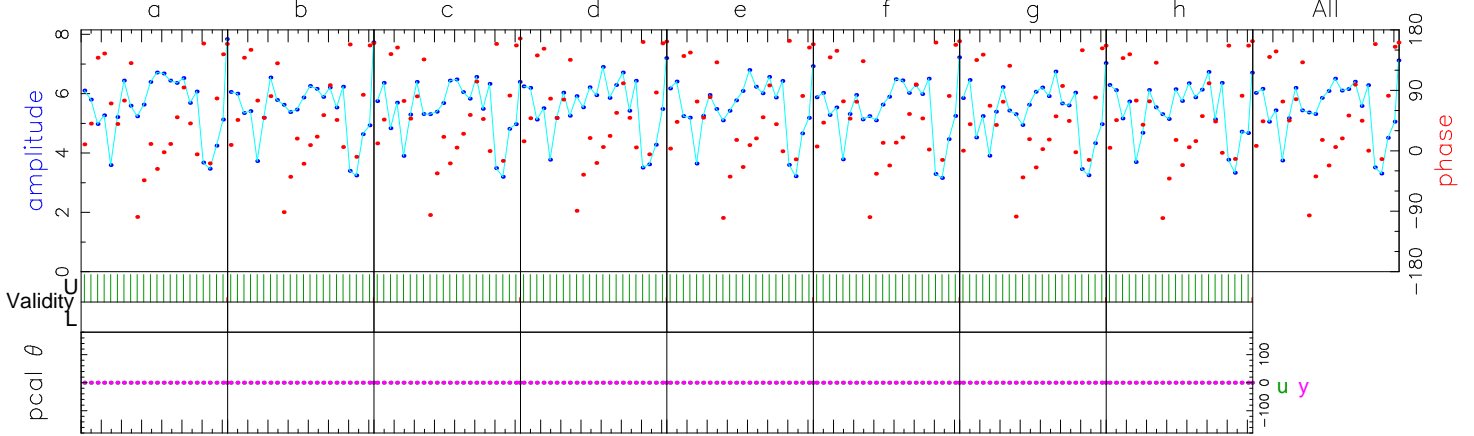


Fringe quality 5

SNR 152.3
Int time 419.840
Amp 2.718
Phase 48.4
PFD 0.0e+00
Delays (us)
SBD 0.005112
MBD 0.005252
Fringe rate (Hz)
-0.000871
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

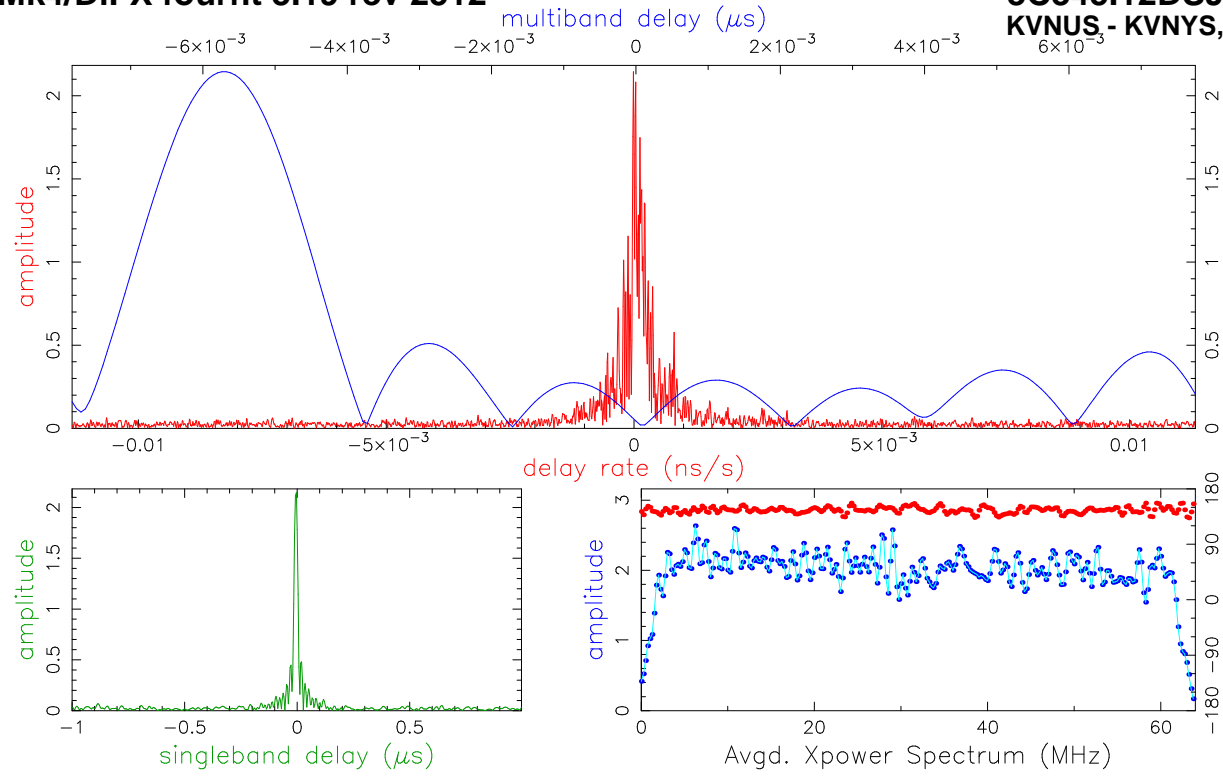


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	42.9	51.3	51.1	50.8	47.9	49.4	45.2	48.3	Phase	48.4
	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6	Ampl.	2.7
	258.3	258.4	258.2	258.3	258.3	258.3	258.3	258.3	Sbd box	258.3
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.19948274454E+02		Apriori delay (usec)		2.19943022526E+02		Resid mbdelay (usec)		5.25193E-03	+/- 7.1E-06
Sband delay (usec)	2.19948134776E+02		Apriori clock (usec)		-2.0764675E+01		Resid sbdelay (usec)		5.11225E-03	+/- 5.7E-05
Phase delay (usec)	2.19943024086E+02		Apriori clockrate (us/s)		2.9999999E-07		Resid phdelay (usec)		1.55931E-06	+/- 2.4E-08
Delay rate (us/s)	-6.21482848694E-03		Apriori rate (us/s)		-6.21481837228E-03		Resid rate (us/s)		-1.01147E-08	+/- 1.0E-10
Total phase (deg)	34.1		Apriori accel (us/s/s)		-3.32270786403E-06		Resid phase (deg)		48.4	+/- 0.8

ph/seg (deg) 67.4 1.8 Theor. Amplitude 2.718 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 105.6 3.1 Search (2048X32) 2.672 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 3.3 1.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 1.3 1.9 Inc. seg. avg. 5.434 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 u: az 68.6 el 51.4 pa -80.7 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) 40.165 -410.500 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/uy..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/uy.W.251.12DSJB simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

3C345.12DSJB, No0041, uy
KVNUS - KVNYS, fgroup W, pol RR

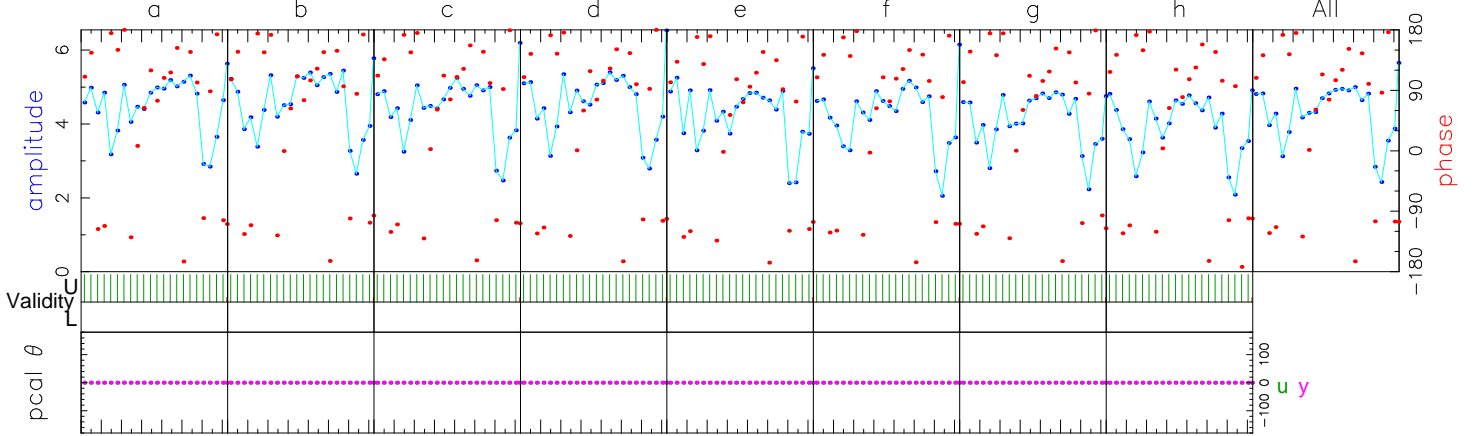


Fringe quality 5

SNR 122.3
Int time 419.840
Amp 2.183
Phase 147.5
PFD 0.0e+00
Delays (us)
SBD -0.005580
MBD -0.005708
Fringe rate (Hz)
-0.000871
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

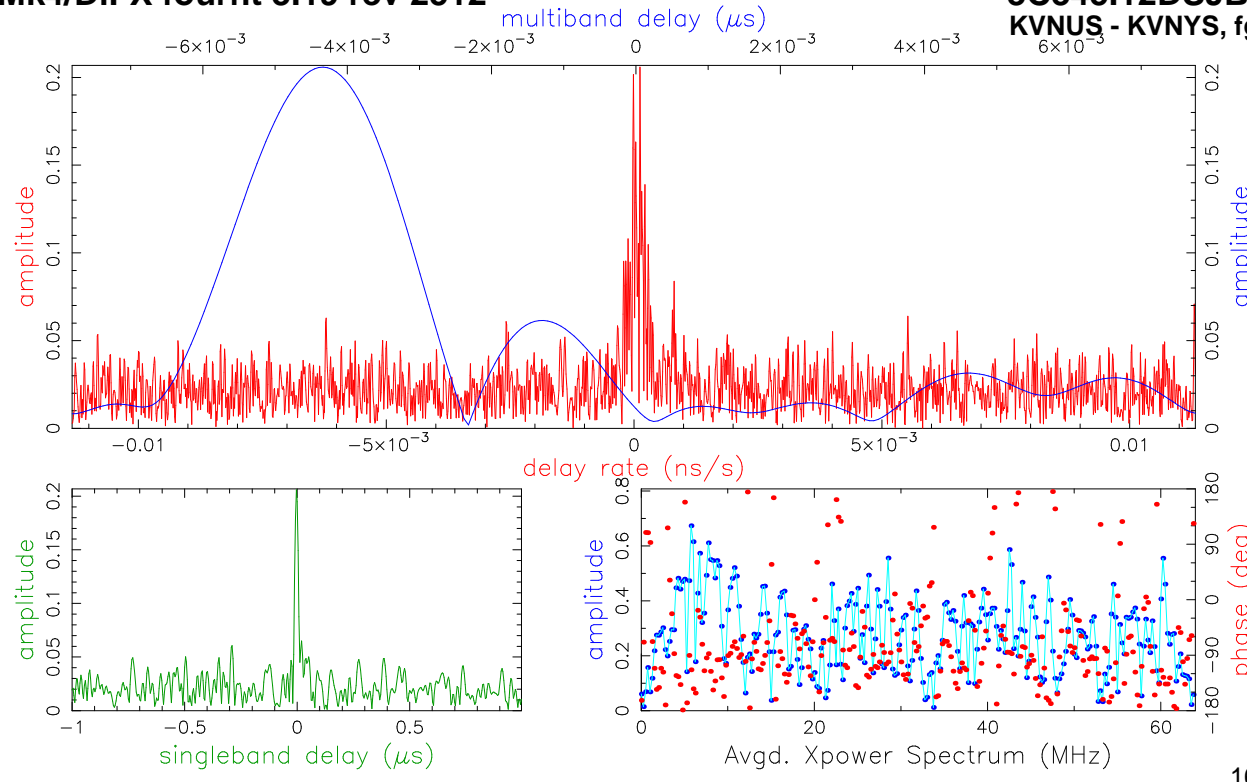


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0			
u	63000	63000	63000	63000	63000	63000	63000	63000			
y	1000	1000	1000	1000	1000	1000	1000	1000			
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
u	1000	1000	1000	1000	1000	1000	1000	1000			
y	1000	1000	1000	1000	1000	1000	1000	1000			
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)		2.19937314704E+02			2.19943022526E+02				Resid mbdelay (usec)	-5.70782E-03	+/- 8.9E-06
Sband delay (usec)		2.19937442026E+02			-2.0764675E+01				Resid sbdelay (usec)	-5.58050E-03	+/- 7.0E-05
Phase delay (usec)		2.19943027282E+02			2.9999999E-07				Resid phdelay (usec)	4.75560E-06	+/- 3.0E-08
Delay rate (us/s)		-6.21482848694E-03			-6.21481837228E-03				Resid rate (us/s)	-1.011147E-08	+/- 1.2E-10
Total phase (deg)			133.2		-3.32270786403E-06				Resid phase (deg)	147.5	+/- 0.9

ph/seg (deg) 67.1 2.2 Search (2048X32) 2.119 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 101.9 3.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 3.6 1.3 Inc. seg. avg. 4.279 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 4.3 2.3 Inc. frq. avg. 2.148 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
u: az 68.6 el 51.4 pa -80.7 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) 40.165 -410.500 ion window (TEC) 0.00 0.00 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/uy..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/uy.W.267.12DSJB

Mk4/DiFX fourfit 3.19 rev 2512

3C345.12DSJB, No0041, uy
KVNUS - KVNYS, fgroup W, pol LR

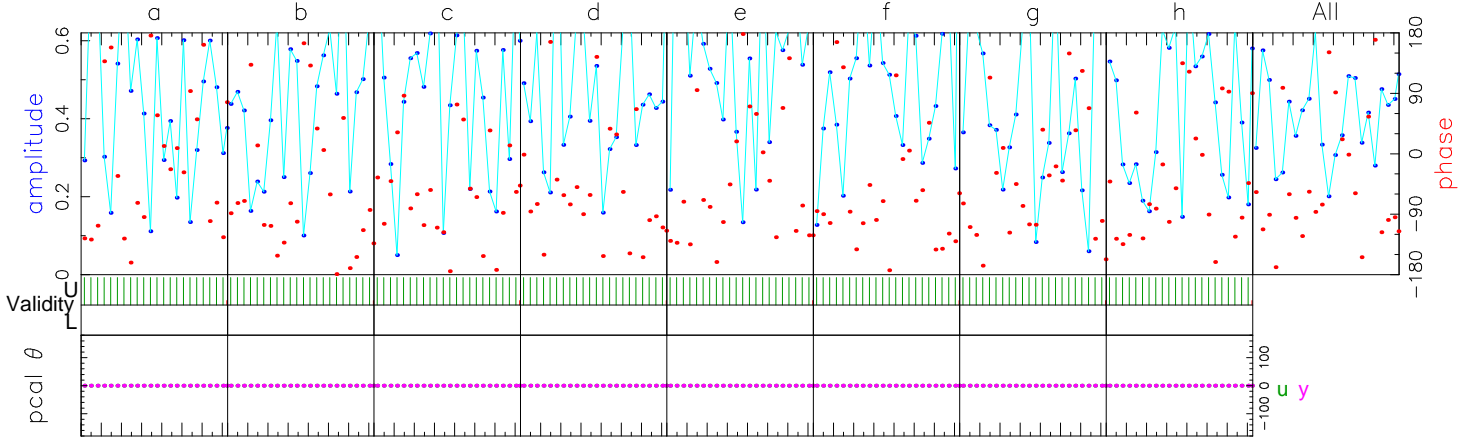


Fringe quality 9

SNR 11.6
Int time 419.840
Amp 0.207
Phase -87.0
PFD 2.2e-22
Delays (us)
SBD -0.003057
MBD -0.004326
Fringe rate (Hz) 0.010396
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Yr:day 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
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
u	63000	63000	63000	63000	63000	63000	63000	63000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
u	1000	1000	1000	1000	1000	1000	1000	1000		
y	1000	1000	1000	1000	1000	1000	1000	1000		
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

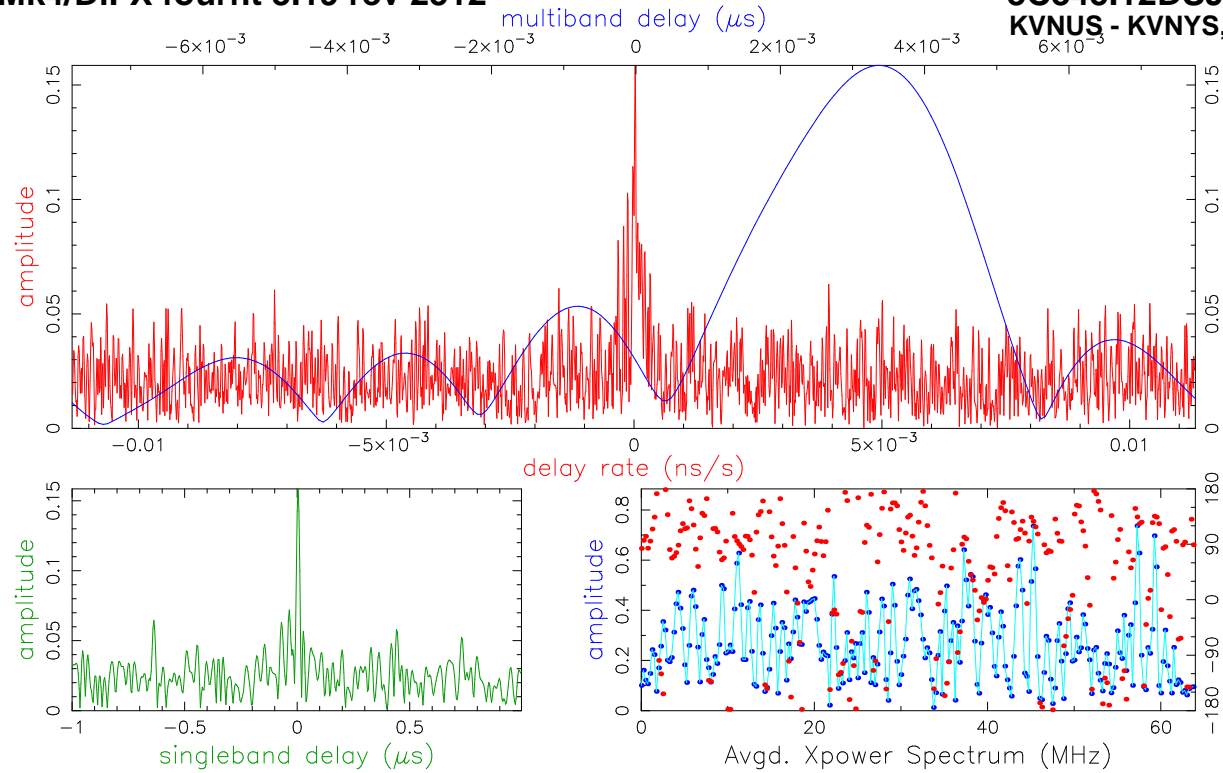
Group delay (usec)(sbd) 2.19938696320E+02 Apriori delay (usec) 2.19943022526E+02 Resid mbdelay (usec) -4.32621E-03 +/- 9.4E-05
 Sband delay (usec) 2.19939965276E+02 Apriori clock (usec) 0.204 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 Phase delay (usec) 2.19943019719E+02 Apriori clockrate (us/s) 2.9999999E-07 Resid sbdelay (usec) -3.05725E-03 +/- 7.4E-04
 Delay rate (us/s) -6.21469768225E-03 Apriori rate (us/s) -6.21481837228E-03 Resid phdelay (usec) -2.80679E-06 +/- 3.2E-07
 Total phase (deg) 258.7 Apriori accel (us/s/s) -3.32270786403E-06 Resid rate (us/s) 1.20690E-07 +/- 1.3E-09
 Resid phase (deg) -87.0 +/- 9.9

RMS Theor. Amplitude 0.207 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 80.9 23.7 Search (2048X32) 0.204 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 107.3 41.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 12.6 14.0 Inc. seg. avg. 0.370 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 19.3 24.4 Inc. frq. avg. 0.204 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

u: az 68.6 el 51.4 pa -80.7 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) 40.165 -410.500 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/uy..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/uy.W.283.12DSJB

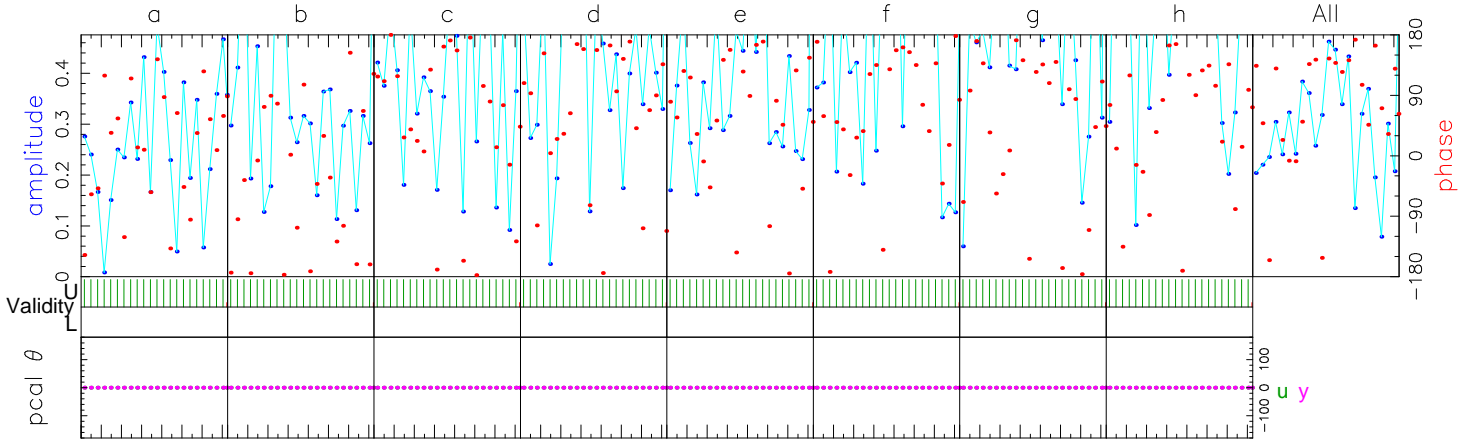
Mk4/DiFX fourfit 3.19 rev 2512

3C345.12DSJB, No0041, uy
KVNUS - KVNYS, fgroup W, pol RL



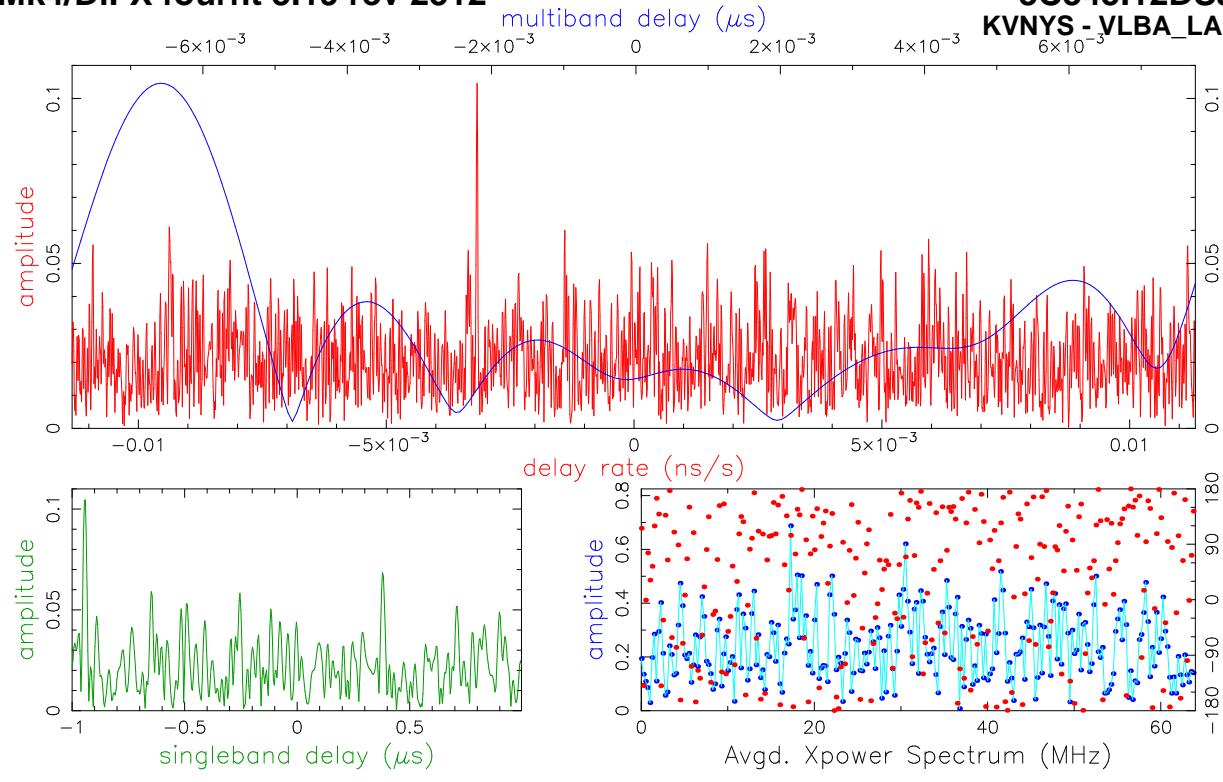
Fringe quality 9
SNR 8.9
Int time 419.840
Amp 0.159
Phase 112.4
PFD 2.5e-10
Delays (us)
SBD 0.003912
MBD 0.003366
Fringe rate (Hz) 0.002363
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183502
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



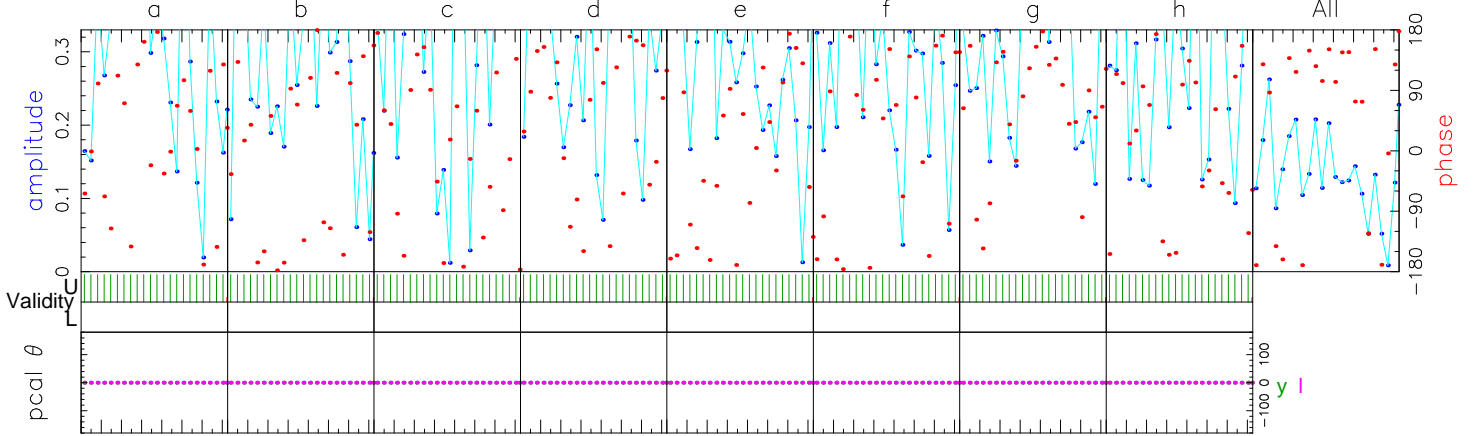
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0
u	63000	63000	63000	63000	63000	63000	63000	63000	63000	63000
y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
u	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		2.1994638889E+02			2.19943022526E+02				3.36636E-03	+/- 1.2E-04
Sband delay (usec)		2.19946934276E+02			-2.0764675E+01				3.91175E-03	+/- 9.7E-04
Phase delay (usec)		2.19943026152E+02			2.9999999E-07				3.62530E-06	+/- 4.2E-07
Delay rate (us/s)		-6.21479094260E-03			-6.21481837228E-03				2.74297E-08	+/- 1.7E-09
Total phase (deg)			98.2		-3.32270786403E-06				112.4	+/- 12.9
	RMS	Theor.	Amplitude	0.159 +/- 0.018						
ph/seg (deg)	62.6	30.9	Search (2048X32)	0.151						
amp/seg (%)	104.8	54.0	Interp.	0.000						
ph/frq (deg)	69.2	18.2	Inc. seg. avg.	0.255						
amp/frq (%)	50.8	31.8	Inc. frq. avg.	0.162						

u: az 68.6 el 51.4 pa -80.7 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) 40.165 -410.500 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/uy..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/uy.W.298.12DSJB



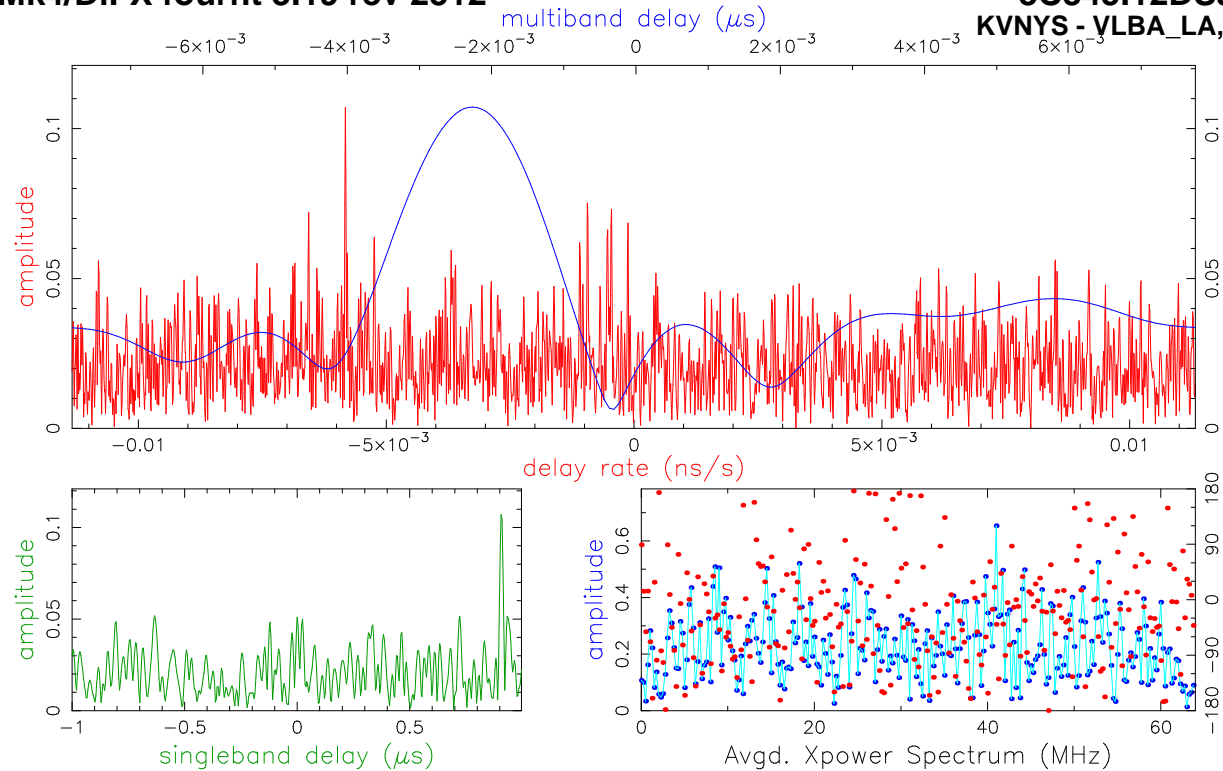
Fringe quality 0
SNR 6.0
Int time 419.829
Amp 0.110
Phase 135.3
PFD 4.6e-01
Delays (us)
SBD -0.943225
MBD -0.006577
Fringe rate (Hz)
-0.272712
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Yr:day 16383
2020:073:194659
2020:086:183452
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+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		
y	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
y:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
l	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		5.46623974446E+03			5.46718382100E+03				Resid mbdelay (usec)	-6.57653E-03 +/- 1.8E-04
Sband delay (usec)		5.46624059600E+03			2.9942820E+01				Resid sbdelay (usec)	-9.43225E-01 +/- 1.4E-03
Phase delay (usec)		5.46718382536E+03			4.5147198E-07				Resid phdelay (usec)	4.36229E-06 +/- 6.2E-07
Delay rate (us/s)		1.67155581880E+00			1.67155898471E+00				Resid rate (us/s)	-3.16591E-06 +/- 2.6E-09
Total phase (deg)			257.9		-2.71164275610E-05				Resid phase (deg)	135.3 +/- 19.2

ph/seg (deg) 53.5 46.0 Search (2048X32) 0.104 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 59.5 80.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.4 27.2 Inc. seg. avg. 0.105 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 36.3 47.4 Inc. frq. avg. 0.102 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 y: az 70.3 el 50.4 pa -76.7 l: az 298.6 el 32.1 pa 68.3 u,v (fr/asec) -12501.262 -1452.083 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/yl..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/yl.W.254.12DSJB

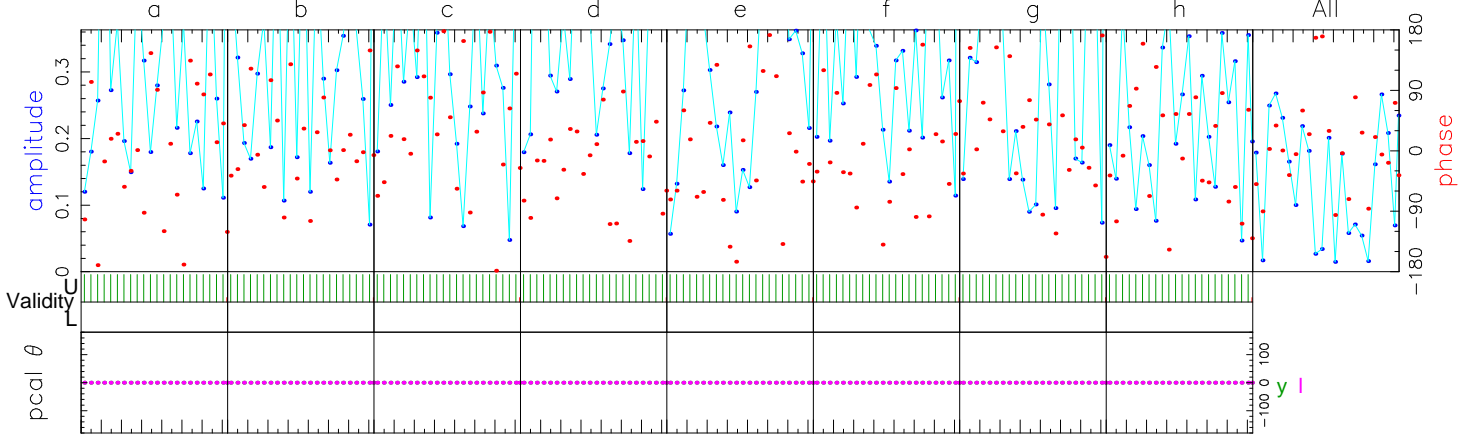


Fringe quality 0

SNR 6.1
Int time 419.829
Amp 0.121
Phase 7.3
PFD 2.9e-01
Delays (us)
SBD 0.907607
MBD -0.002207
Fringe rate (Hz)
-0.502844
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
2020:086:183456
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

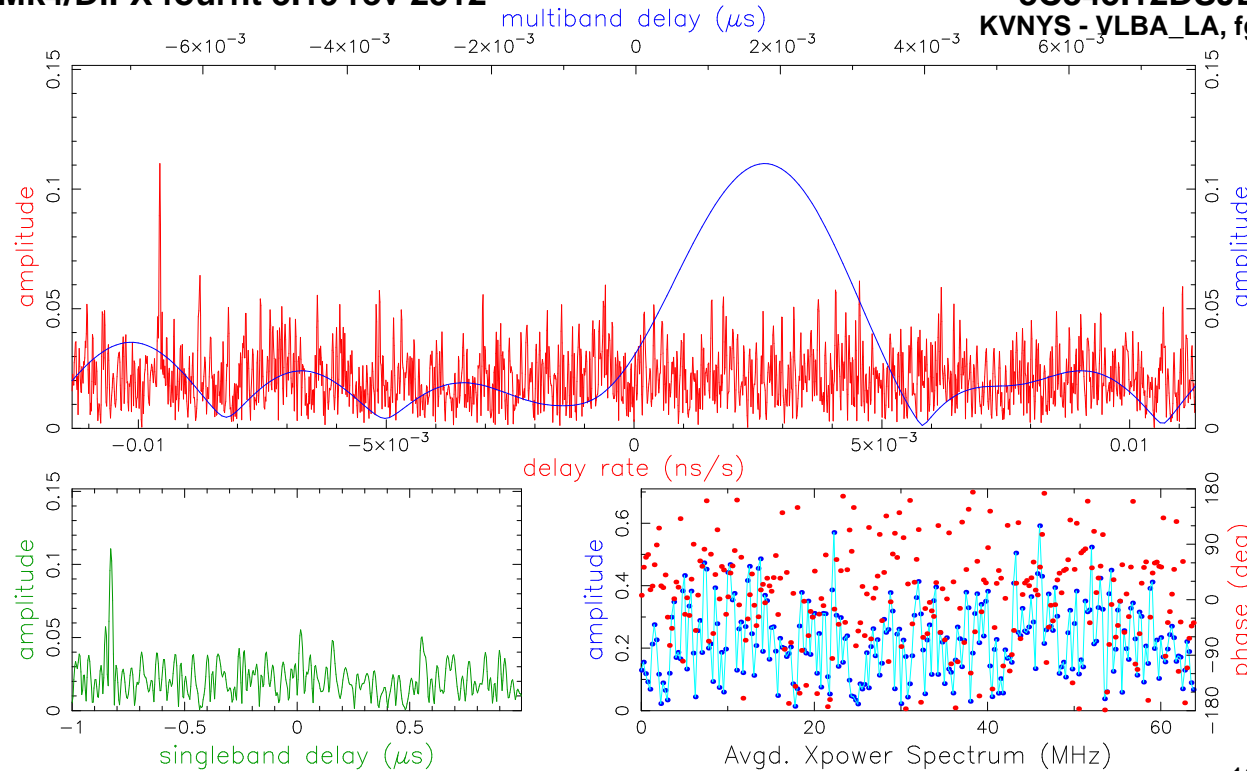


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
y	63000	63000	63000	63000	63000	63000	63000	63000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)		5.46808786402E+03			5.46718382100E+03				Resid mbdelay (usec)	-2.20698E-03 +/- 1.8E-04
Sband delay (usec)		5.46809142850E+03			2.9942820E+01				Resid sbdelay (usec)	9.07607E-01 +/- 1.4E-03
Phase delay (usec)		5.46718382123E+03			4.5147198E-07				Resid phdelay (usec)	2.35004E-07 +/- 6.1E-07
Delay rate (us/s)		1.67155314719E+00			1.67155898471E+00				Resid rate (us/s)	-5.83752E-06 +/- 2.5E-09
Total phase (deg)			129.9						Resid phase (deg)	7.3 +/- 18.9

ph/seg (deg) 69.9 45.3 Search (2048X32) 0.104 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 84.5 79.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 32.8 26.7 Inc. seg. avg. 0.116 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 55.2 46.6 Inc. frq. avg. 0.118 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 y: az 70.3 el 50.4 pa -76.7 l: az 298.6 el 32.1 pa 68.3 u,v (fr/asec) -12501.262 -1452.083 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/yl..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/yl.W.272.12DSJB

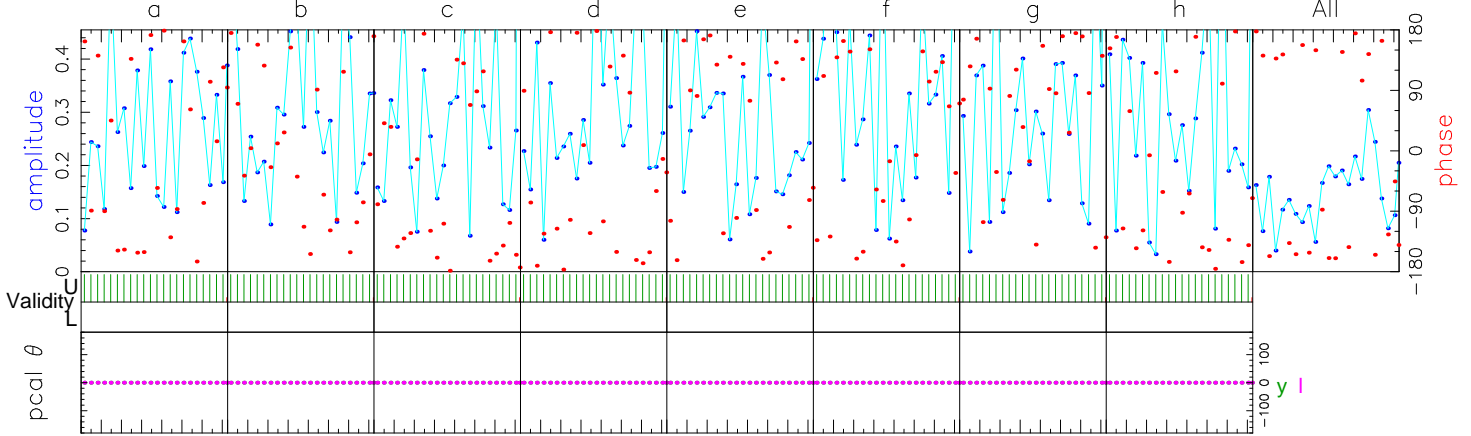
Mk4/DiFX fourfit 3.19 rev 2512

3C345.12DSJB, No0041, yl
KVNS - VLBA_LA, fgroup W, pol LR



Fringe quality 0
SNR 6.2
Int time 419.829
Amp 0.152
Phase -175.1
PFD 1.3e-01
Delays (us)
SBD -0.827583
MBD 0.001783
Fringe rate (Hz)
-0.825639
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

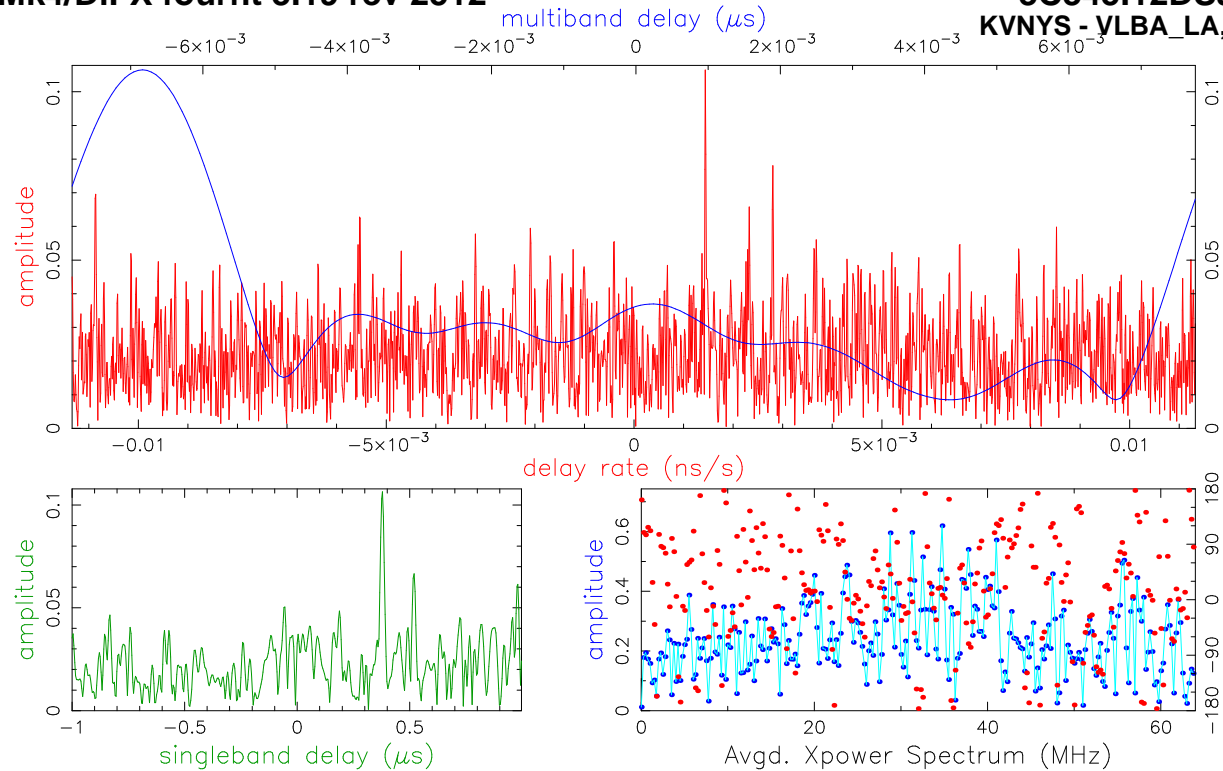


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-175.7	-166.8	-177.0	-166.0	178.8	177.8	152.4	-158.1	Phase	-175.1
	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	Ampl.	0.1
	445.0	376.7	92.7	44.6	455.6	240.6	52.3	319.1	Sbd box	45.1
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	63000	63000	63000	63000	63000	63000	63000	63000	PC freqs	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	

Group delay (usec)(sbd)	5.46635747920E+03	Apriori delay (usec)	5.46718382100E+03	Resid mbdelay (usec)	1.78320E-03	+/-	1.7E-04
Sband delay (usec)	5.46635623800E+03	Apriori clock (usec)	2.9942820E+01	Resid sbdelay (usec)	-8.27583E-01	+/-	1.4E-03
Phase delay (usec)	5.46718381535E+03	Apriori clockrate (us/s)	4.5147198E-07	Resid phdelay (usec)	-5.64776E-06	+/-	5.9E-07
Delay rate (us/s)	1.67154939987E+00	Apriori rate (us/s)	1.67155898471E+00	Resid rate (us/s)	-9.58485E-06	+/-	2.5E-09
Total phase (deg)		Apriori accel (us/s/s)	-2.71164275610E-05	Resid phase (deg)	-175.1	+/-	18.4

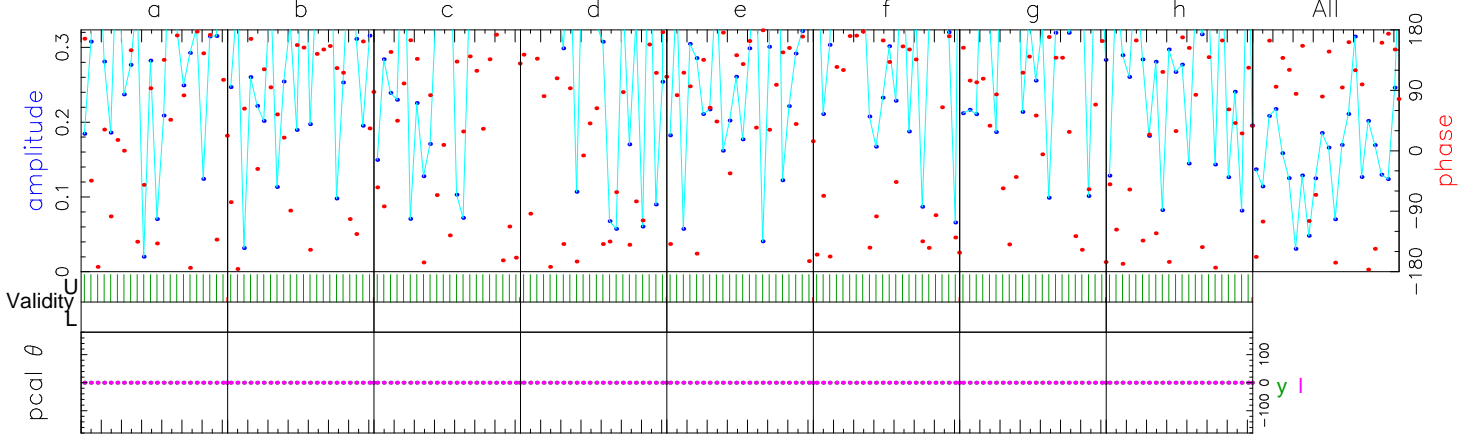
ph/seg (deg)	47.5	Theor.	44.2	Search (2048X32)	0.108	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	65.2		77.2	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	16.3		26.1	Inc. seg. avg.	0.157	Bits/sample: 2x2		dr window (ns/s)	-0.011	0.011
amp/frq (%)	36.0		45.5	Inc. frq. avg.	0.140	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 2048				
						nlags: 256	t_cohere infinite			

y: az 70.3 el 50.4 pa -76.7 l: az 298.6 el 32.1 pa 68.3 u,v (fr/asec) -12501.262 -1452.083 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/yl..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/yl.W.288.12DSJB



Fringe quality 0
SNR 6.0
Int time 419.829
Amp 0.108
Phase 147.5
PFD 4.0e-01
Delays (us)
SBD 0.377785
MBD -0.006877
Fringe rate (Hz) 0.124038
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
2020:086:183503
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
y	63000	63000	63000	63000	63000	63000	63000	63000	63000	63000
l	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
y:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
y:l	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
l	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		5.46756756893E+03			5.46718382100E+03				Resid mbdelay (usec)	-6.87706E-03 +/- 1.8E-04
Sband delay (usec)		5.46756160575E+03			2.9942820E+01				Resid sbdelay (usec)	3.77785E-01 +/- 1.4E-03
Phase delay (usec)		5.46718382575E+03			4.5147198E-07				Resid phdelay (usec)	4.75581E-06 +/- 6.2E-07
Delay rate (us/s)		1.67156042467E+00			1.67155898471E+00				Resid rate (us/s)	1.43996E-06 +/- 2.5E-09
Total phase (deg)			270.1		-2.71164275610E-05				Resid phase (deg)	147.5 +/- 19.1

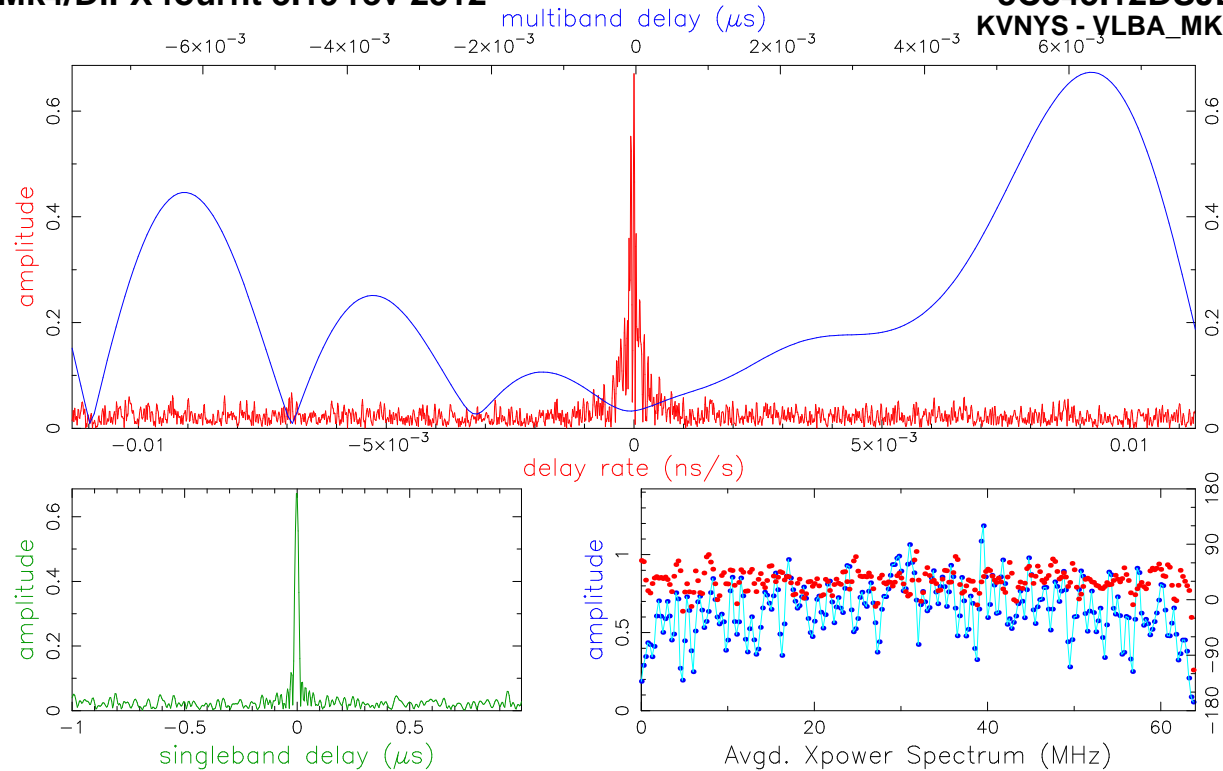
ph/seg (deg) 58.5 79.9
amp/seg (%) 77.0 79.9
ph/frq (deg) 26.7 27.0
amp/frq (%) 33.1 47.1
RMS 58.5 79.9
Theor. 45.8 79.9
Amplitude 0.108 +/- 0.018
Search (2048X32) 0.104
Interp. 0.000
Inc. seg. avg. 0.119
Inc. frq. avg. 0.105
Pcal mode: MANUAL, MANUAL
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2
Sample rate(MISamp/s): 128
Data rate(Mb/s): 2048
PC period (AP's) 5, 5
Sb window (us) -1.000 1.000
SampCntNorm: enabled
mb window (us) -0.008 0.008
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00
nlags: 256 t_cohere infinite
simultaneous interpolator

y: az 70.3 el 50.4 pa -76.7 l: az 298.6 el 32.1 pa 68.3 u,v (fr/asec) -12501.262 -1452.083

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/yl..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/yl.W.302.12DSJB

Mk4/DiFX fourfit 3.19 rev 2512

3C345.12DSJB, No0041, ym
KVNYS - VLBA_MK, fgroup W, pol LL

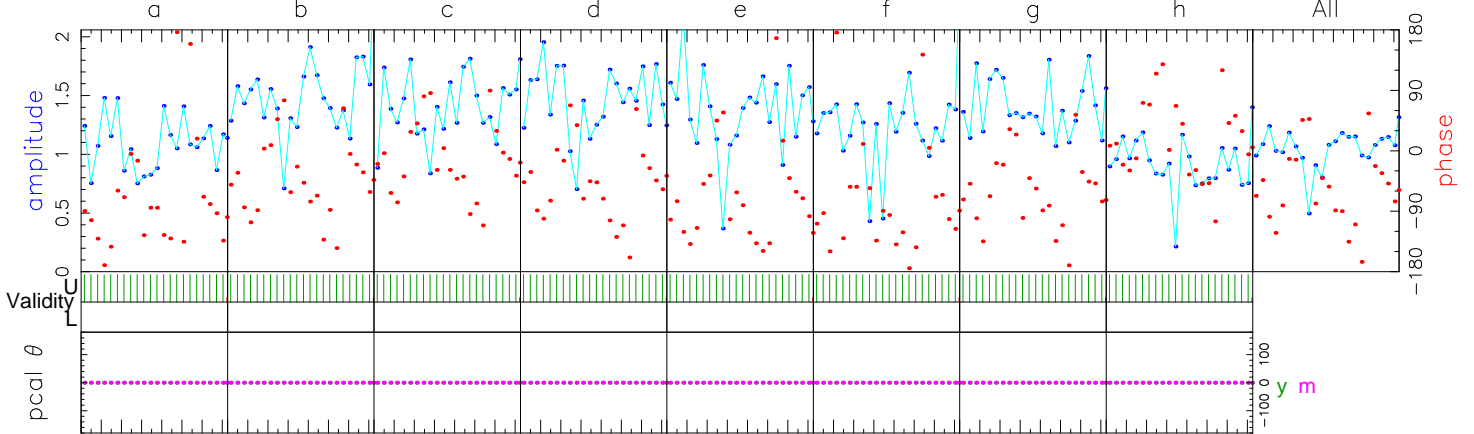


Fringe quality 4

SNR 38.4
Int time 419.111
Amp 0.686
Phase -62.9
PFD 0.0e+00
Delays (us)
SBD -0.001995
MBD 0.006196
Fringe rate (Hz) 0.000462
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		
y	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
y:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

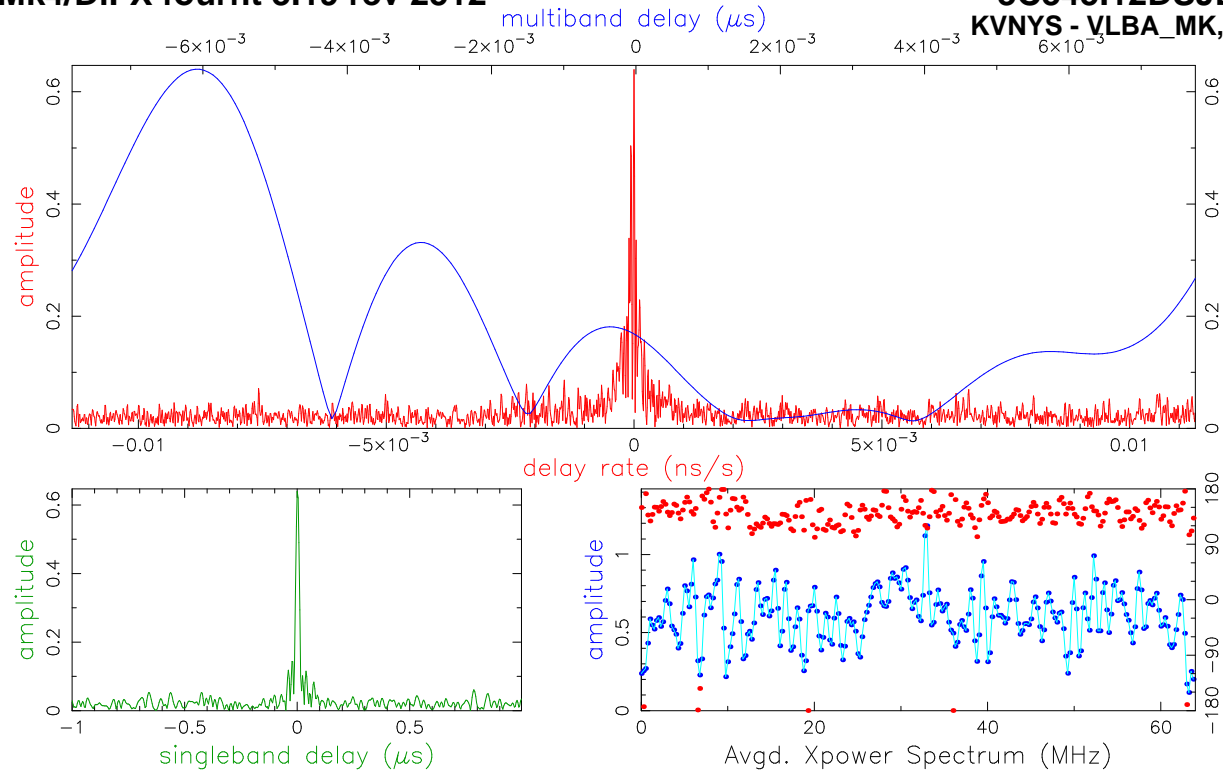
Group delay (usec)(sbd)	-1.76619017339E+03	Apriori delay (usec)	-1.76618074452E+03	Resid mbdelay (usec)	6.19612E-03	+/-	2.8E-05
Sband delay (usec)	-1.76618273952E+03	Apriori clock (usec)	2.6626804E+01	Resid sbdelay (usec)	-1.99500E-03	+/-	2.2E-04
Phase delay (usec)	-1.76618074655E+03	Apriori clockrate (us/s)	1.0869228E-07	Resid phdelay (usec)	-2.02939E-06	+/-	9.6E-08
Delay rate (us/s)	1.24154367660E+00	Apriori rate (us/s)	1.24154367125E+00	Resid rate (us/s)	5.35882E-09	+/-	4.0E-10
Total phase (deg)	-182.8	Apriori accel (us/s/s)	2.90430656271E-05	Resid phase (deg)	-62.9	+/-	3.0

ph/seg (deg)	56.8	RMS	7.2	Theor.	56.8	Amplitude	0.686 +/- 0.018	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	56.4	Search (2048X32)	0.623	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)	47.3	Inc. seg. avg.	1.033	Inc. frq. avg.	0.828	Bits/sample: 2x2		Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011		
amp/frq (%)	29.3	Inc. frq. avg.	0.828			Data rate(Mb/s): 2048		nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00	
y: az 70.3 el 50.4 pa -76.7		m: az 317.4 el 59.9 pa 123.3		u,v (fr/asec)	-9196.985 3851.719								simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/ym..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/ym.W.253.12DSJB

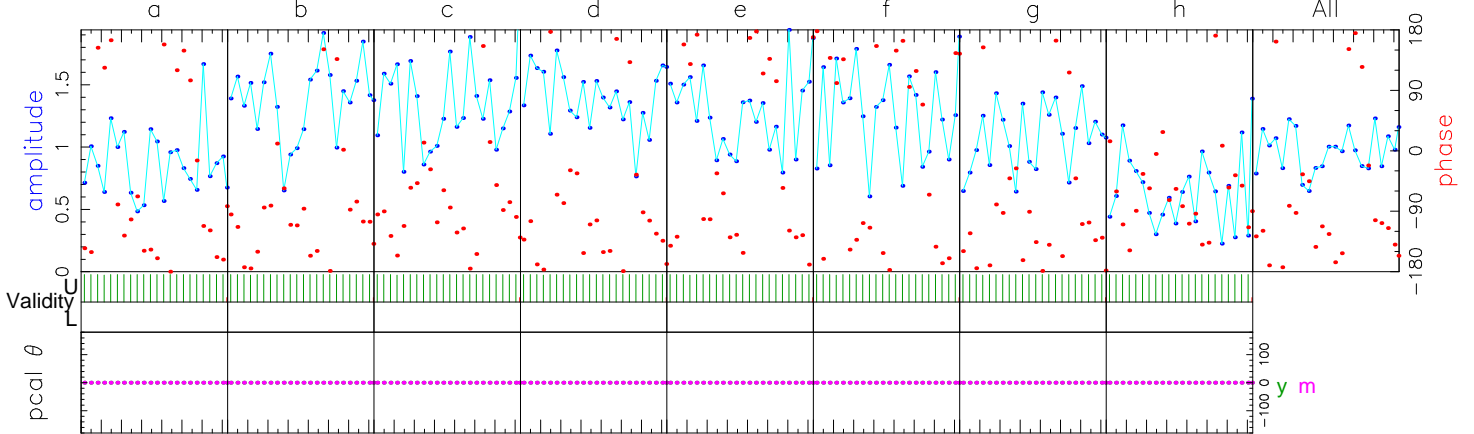
Mk4/DiFX fourfit 3.19 rev 2512

3C345.12DSJB, No0041, ym
KVNYS - VLBA_MK, fgroup W, pol RR



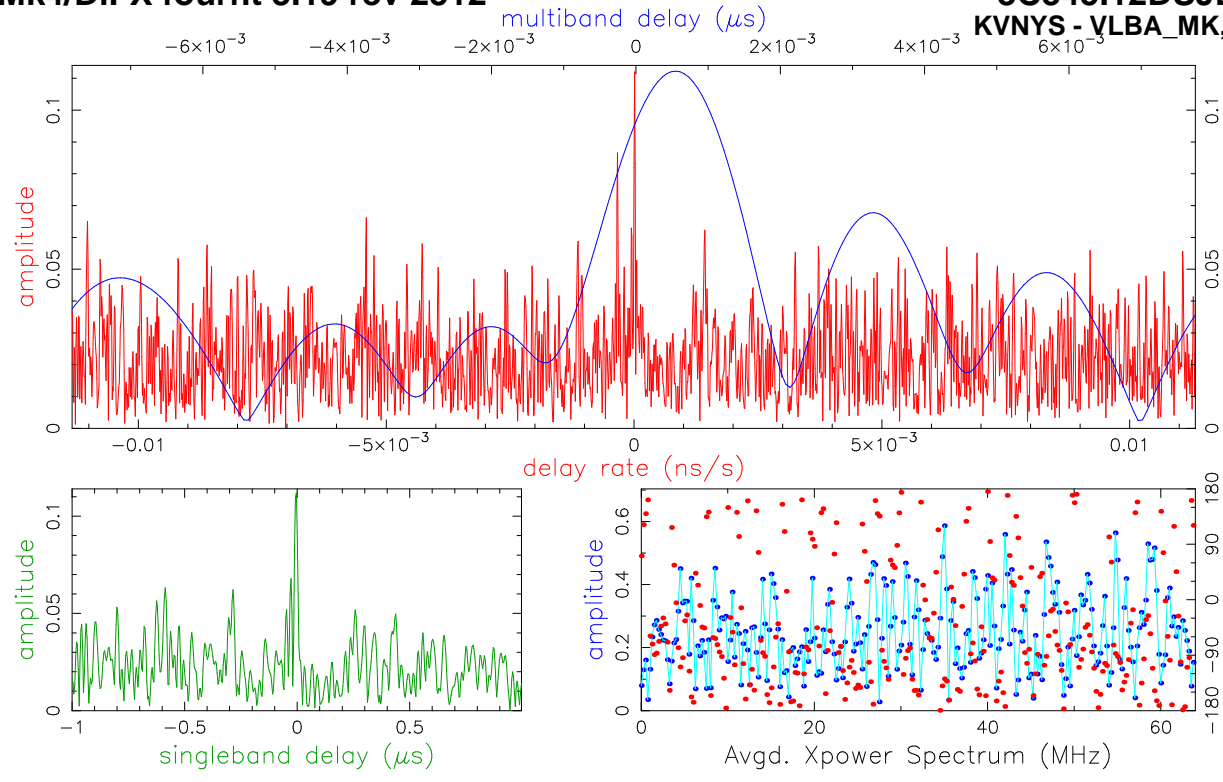
Fringe quality 4
 SNR 36.2
 Int time 419.112
 Amp 0.647
 Phase -133.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.001361
 MBD -0.006015
 Fringe rate (Hz) 0.000416
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. c192a
 Exper # 16383
 Yr:day 2019:277
 Start 040000.00
 Stop 040659.84
 FRT 040330.00
 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	
	-157.4	-119.1	-96.3	-127.4	-153.2	175.2	-134.2	-84.9		-133.3	
	0.6	0.8	0.9	0.9	0.8	0.7	0.7	0.4		0.7	
	259.5	257.3	257.2	257.1	257.3	257.1	258.0	259.8		257.3	
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0			
y	63000	63000	63000	63000	63000	63000	63000	63000			
m	1000	1000	1000	1000	1000	1000	1000	1000			
y:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
y:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0			
y	1000	1000	1000	1000	1000	1000	1000	1000			
m	1000	1000	1000	1000	1000	1000	1000	1000			
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
									Chan ids		
									Tracks		
									Tracks		
Group delay (usec)(sbd)	-1.76618675971E+03				-1.76618074452E+03				Resid mbdelay (usec)	-6.01519E-03	+/- 3.0E-05
Sband delay (usec)	-1.76617938327E+03				2.6626804E+01				Resid sbdelay (usec)	1.36125E-03	+/- 2.4E-04
Phase delay (usec)	-1.76618074882E+03				1.0869228E-07				Resid phdelay (usec)	-4.29995E-06	+/- 1.0E-07
Delay rate (us/s)	1.24154367608E+00				1.24154367125E+00				Resid rate (us/s)	4.82953E-09	+/- 4.2E-10
Total phase (deg)			-253.2		2.90430656271E-05				Resid phase (deg)	-133.3	+/- 3.2

ph/seg (deg) 53.8 7.6 Search (2048X32) 0.594 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 55.3 13.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 35.6 4.5 Inc. seg. avg. 0.957 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 27.4 7.8 Inc. frq. avg. 0.730 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 y: az 70.3 el 50.4 pa -76.7 m: az 317.4 el 59.9 pa 123.3 u,v (fr/asec) -9196.985 3851.719 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/ym..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/ym.W.270.12DSJB

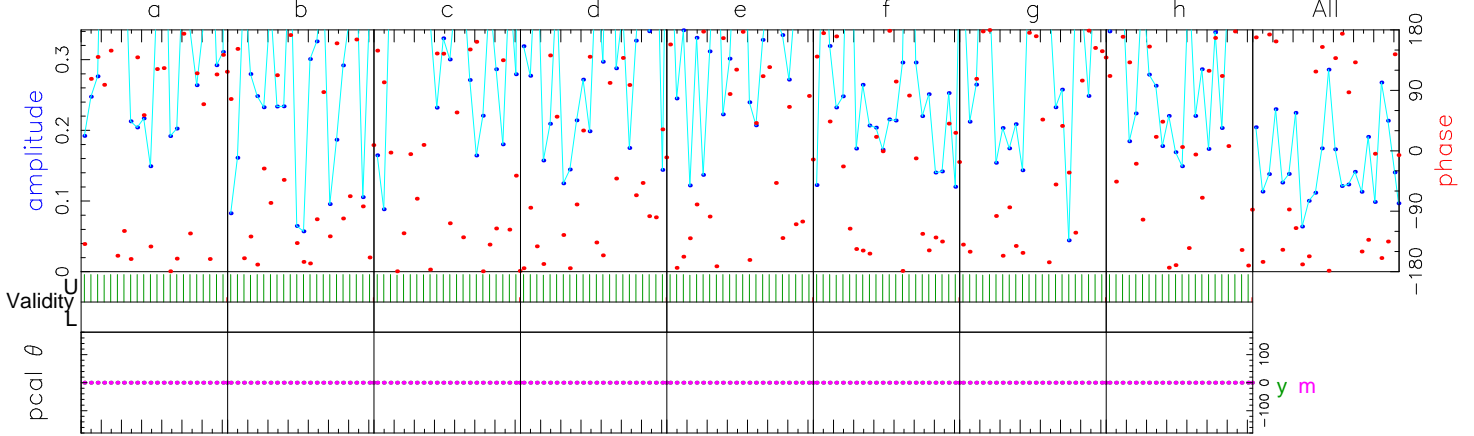


Fringe quality 0

SNR 6.4
Int time 419.112
Amp 0.114
Phase -175.2
PFD 4.6e-02
Delays (us)
SBD -0.005513
MBD 0.000477
Fringe rate (Hz) 0.000802
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



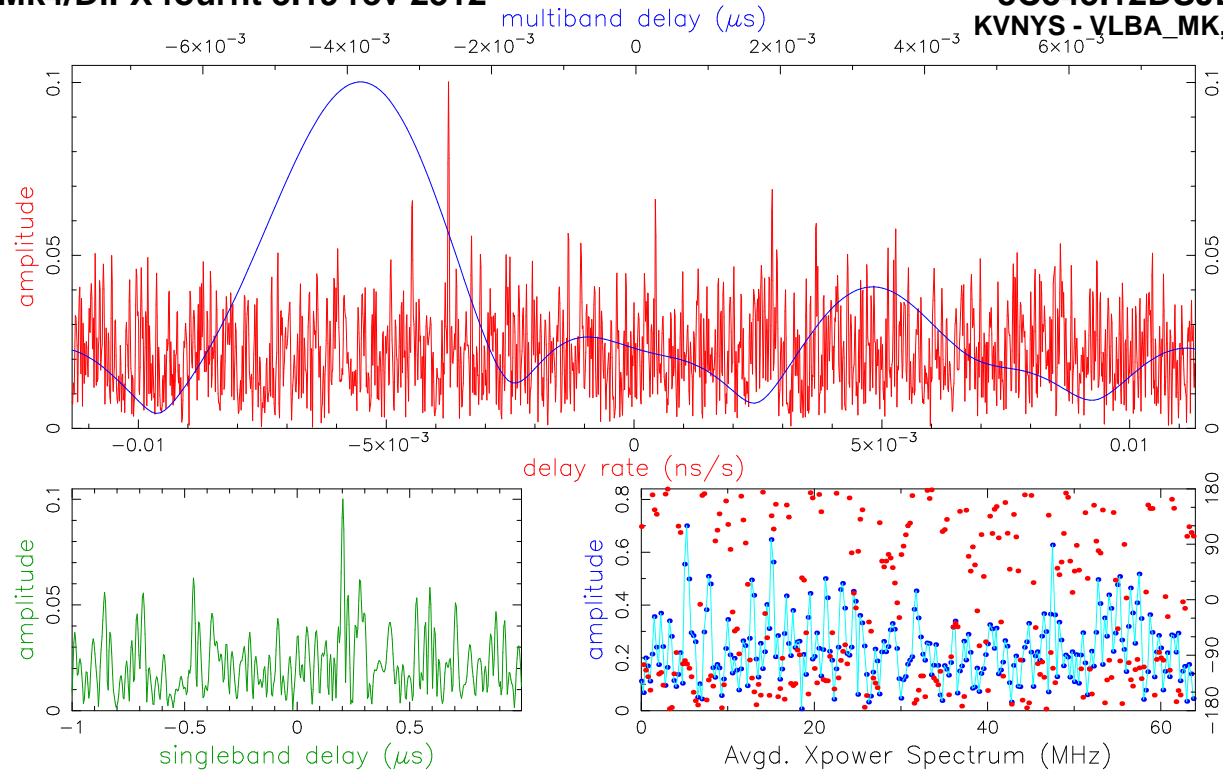
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0
y	63000	63000	63000	63000	63000	63000	63000	63000	63000	63000
m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
y:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
y:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-1.76618026710E+03	Apriori delay (usec)	-1.76618074452E+03	Resid mbdelay (usec)	4.77416E-04	+/-	1.7E-04
Sband delay (usec)	-1.76618625752E+03	Apriori clock (usec)	2.6626804E+01	Resid sbdelay (usec)	-5.51300E-03	+/-	1.3E-03
Phase delay (usec)	-1.76618075017E+03	Apriori clockrate (us/s)	1.0869228E-07	Resid phdelay (usec)	-5.64827E-06	+/-	5.8E-07
Delay rate (us/s)	1.24154368055E+00	Apriori rate (us/s)	1.24154367125E+00	Resid rate (us/s)	9.30761E-09	+/-	2.4E-09
Total phase (deg)	-295.0	Apriori accel (us/s/s)	2.90430656271E-05	Resid phase (deg)	-175.2	+/-	17.9

ph/seg (deg)	57.6	Theor.	43.0	Amplitude	0.114 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	63.3		75.1	Search (2048X32)	0.112	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	28.5		25.4	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	50.5		44.3	Inc. seg. avg.	0.124	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	0.112	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

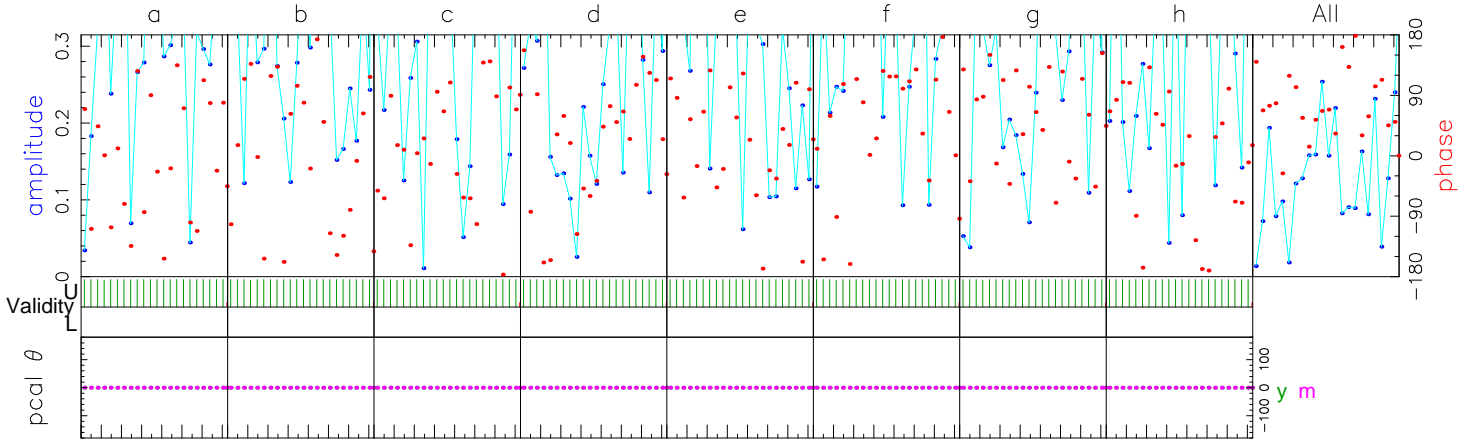
y: az 70.3 el 50.4 pa -76.7 m: az 317.4 el 59.9 pa 123.3 u,v (fr/asec) -9196.985 3851.719 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/ym..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/ym.W.285.12DSJB



Fringe quality 0
SNR 5.6
Int time 419.111
Amp 0.105
Phase 63.6
PFD 9.9e-01
Delays (us)
SBD 0.202664
MBD -0.003845
Fringe rate (Hz)
-0.322587
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
2020:086:183502
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

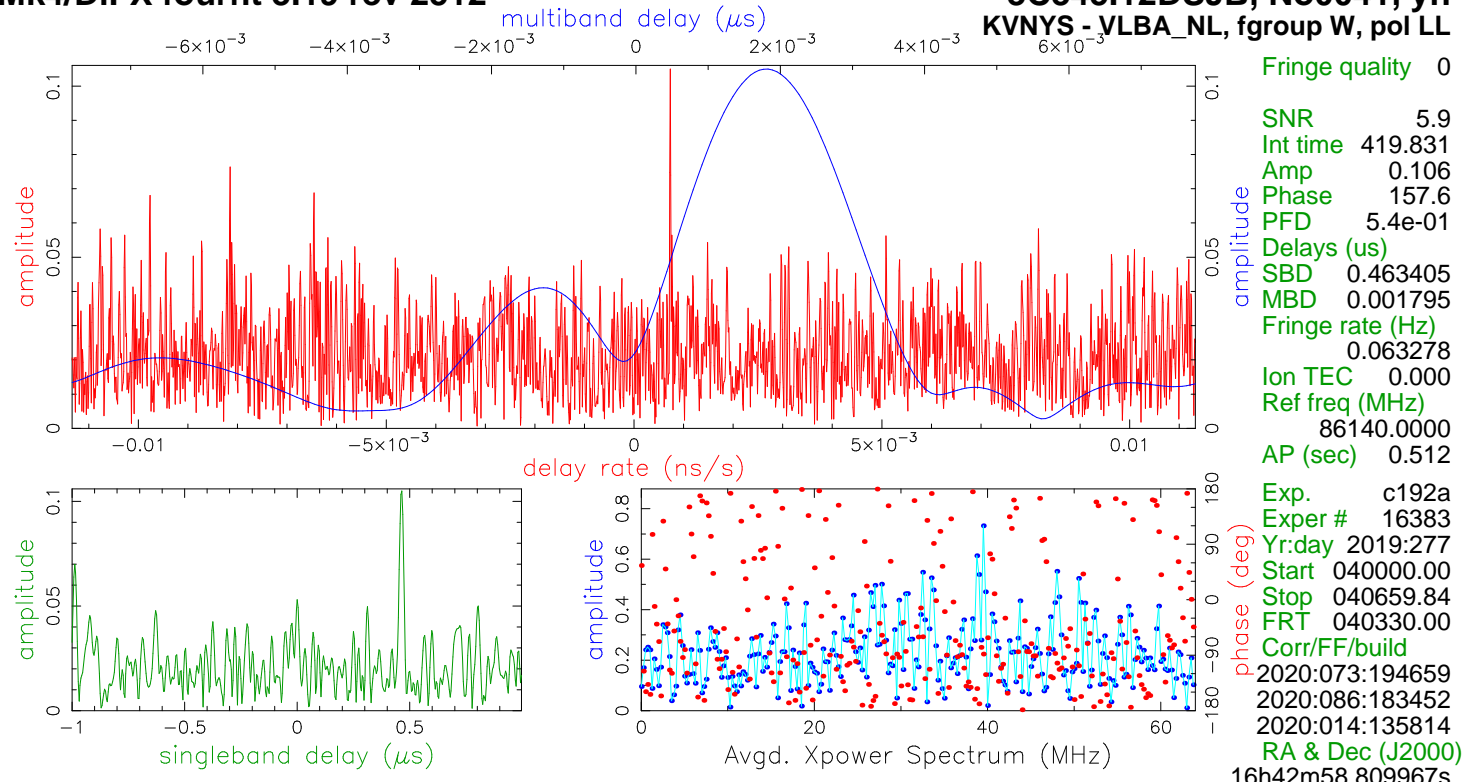


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	13.4	121.2	63.2	78.7	37.3	80.1	64.2	54.8	Phase	63.6
y	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	Ampl.	0.1
m	326.6	146.9	414.1	365.3	408.5	310.0	34.4	360.8	Sbd box	308.9
y:m	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
m	63000	63000	63000	63000	63000	63000	63000	63000	PC freqs	
y:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

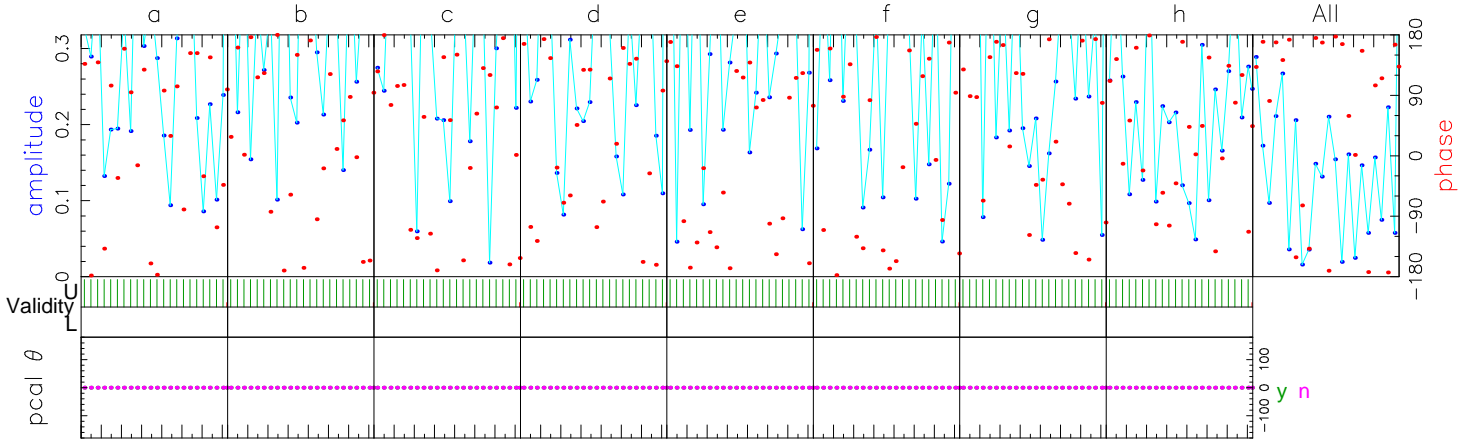
Group delay (usec)(sbd)	-1.76598146443E+03	Apriori delay (usec)	-1.76618074452E+03	Resid mbdelay (usec)	-3.84491E-03	+/-	1.9E-04
Sband delay (usec)	-1.76597808002E+03	Apriori clock (usec)	2.6626804E+01	Resid sbdelay (usec)	2.02664E-01	+/-	1.5E-03
Phase delay (usec)	-1.76618074247E+03	Apriori clockrate (us/s)	1.0869228E-07	Resid phdelay (usec)	2.05033E-06	+/-	6.6E-07
Delay rate (us/s)	1.24153992634E+00	Apriori rate (us/s)	1.24154367125E+00	Resid rate (us/s)	-3.74491E-06	+/-	2.7E-09
Total phase (deg)	-56.3	Apriori accel (us/s/s)	2.90430656271E-05	Resid phase (deg)	63.6	+/-	20.4

ph/seg (deg)	50.4	RMS	48.9	Theor.	50.4	Amplitude	0.105 +/- 0.019	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	76.5		76.5		76.5	Search (2048X32)	0.099	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	34.4		28.9		34.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	32.5		50.4		32.5	Inc. seg. avg.	0.100	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
						Inc. frq. avg.	0.104	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

y: az 70.3 el 50.4 pa -76.7 m: az 317.4 el 59.9 pa 123.3 u,v (fr/asec) -9196.985 3851.719 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/ym..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/ym.W.299.12DSJB



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



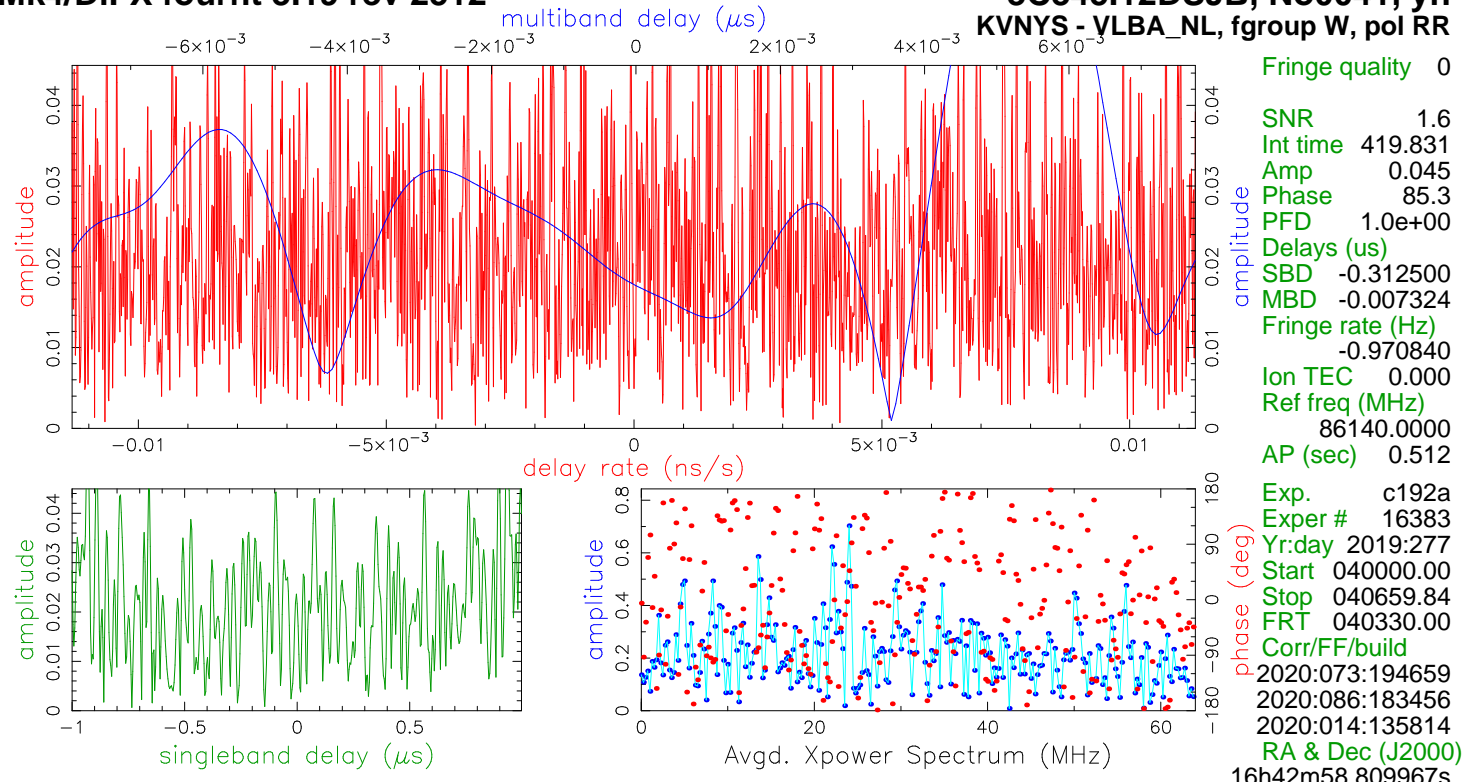
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
n	1000	1000	1000	1000	1000	1000	1000	1000		
y:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	7.68896520345E+03	Apriori delay (usec)	7.68849465809E+03	Resid mbdelay (usec)	1.79535E-03	+/-	1.8E-04
Sband delay (usec)	7.68895806359E+03	Apriori clock (usec)	2.7106171E+08	Resid sbdelay (usec)	4.63405E-01	+/-	1.5E-03
Phase delay (usec)	7.68849466317E+03	Apriori clockrate (us/s)	-3.4223519E-08	Resid phdelay (usec)	5.08222E-06	+/-	6.2E-07
Delay rate (us/s)	1.62089984817E+00	Apriori rate (us/s)	1.62089911358E+00	Resid rate (us/s)	7.34591E-07	+/-	2.6E-09
Total phase (deg)	102.9	Apriori accel (us/s/s)	-4.49485777618E-05	Resid phase (deg)	157.6	+/-	19.3

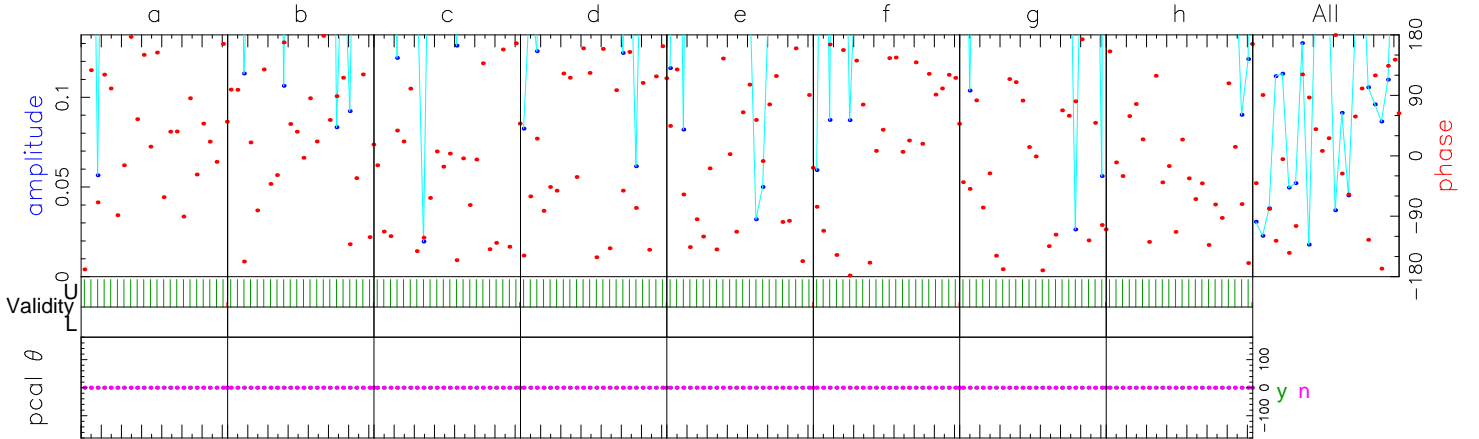
ph/seg (deg)	57.3	Theor.	46.3	Search (2048X32)	0.099	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	85.8		80.9	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
ph/frq (deg)	21.0		27.3	Inc. seg. avg.	0.101	Bits/sample: 2x2	Sample rate(MISamp/s): 128	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	30.0		47.7	Inc. frq. avg.	0.099	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

y: az 70.3 el 50.4 pa -76.7 n: az 301.9 el 25.2 pa 55.5 u,v (fr/asec) -12155.628 -3176.834 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/yn..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/yn.W.256.12DSJB

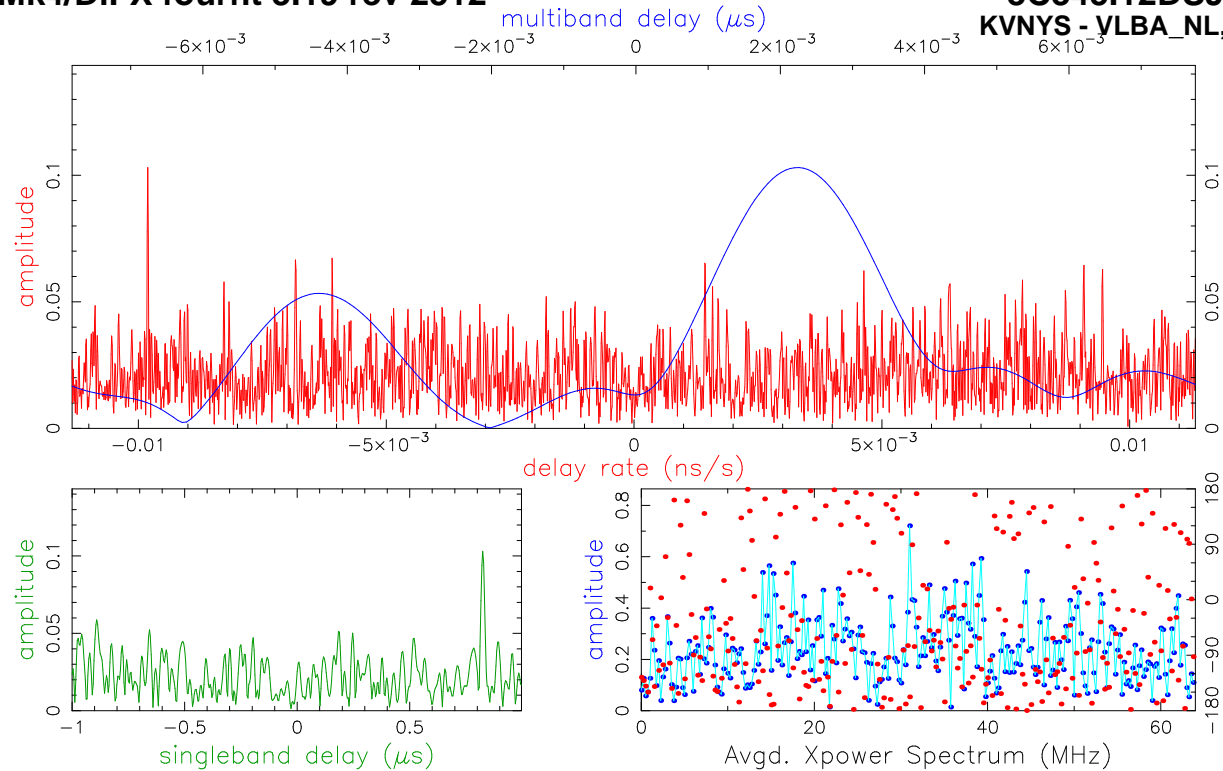


Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



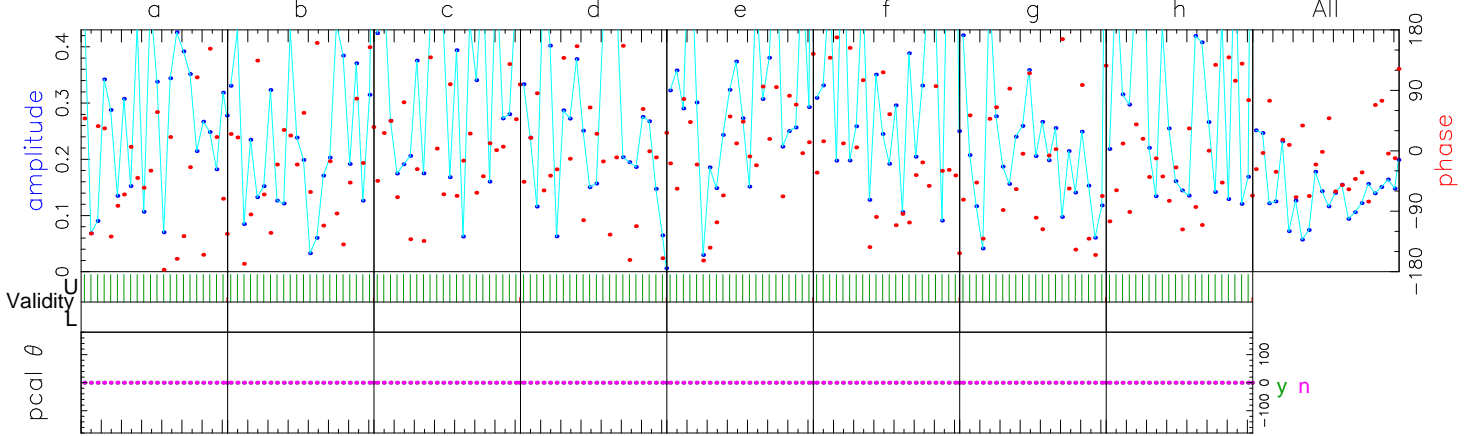
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
78.0	37.0	-47.1	-174.8	178.0	117.1	55.3	-31.1		Phase	85.3
0.1	0.2	0.1	0.1	0.1	0.3	0.0	0.2		Ampl.	0.0
410.3	29.9	142.0	381.1	33.0	416.3	102.4	276.3		Sbd box	177.0
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0		APs used	
y	63000	63000	63000	63000	63000	63000	63000		PC freqs	
n	1000	1000	1000	1000	1000	1000	1000		PC phase	
y:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC	
y:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC amp	
y	1000	1000	1000	1000	1000	1000	1000		Chan ids	
n	1000	1000	1000	1000	1000	1000	1000		Tracks	
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	7.68817483387E+03		Apriori delay (usec)	7.68849465809E+03	Resid mbdelay (usec)	-7.32422E-03	+/-	6.7E-04		
Sband delay (usec)	7.68818215809E+03		Apriori clock (usec)	2.7106171E+08	Resid sbdelay (usec)	-3.12500E-01	+/-	5.3E-03		
Phase delay (usec)	7.68849466084E+03		Apriori clockrate (us/s)	-3.4223519E-08	Resid phdelay (usec)	2.75230E-06	+/-	2.3E-06		
Delay rate (us/s)	1.62088784309E+00		Apriori rate (us/s)	1.62089911358E+00	Resid rate (us/s)	-1.12705E-05	+/-	9.5E-09		
Total phase (deg)		30.6	Apriori accel (us/s/s)	-4.49485777618E-05	Resid phase (deg)	85.3	+/-	71.1		

ph/seg (deg) 98.6 170.4 Search (2048X32) 0.100 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 321.1 297.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 94.8 100.5 Inc. seg. avg. 0.029 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 241.1 175.4 Inc. frq. avg. 0.050 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 y: az 70.3 el 50.4 pa -76.7 n: az 301.9 el 25.2 pa 55.5 u,v (fr/asec) -12155.628 -3176.834 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/yn..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/yn.W.275.12DSJB



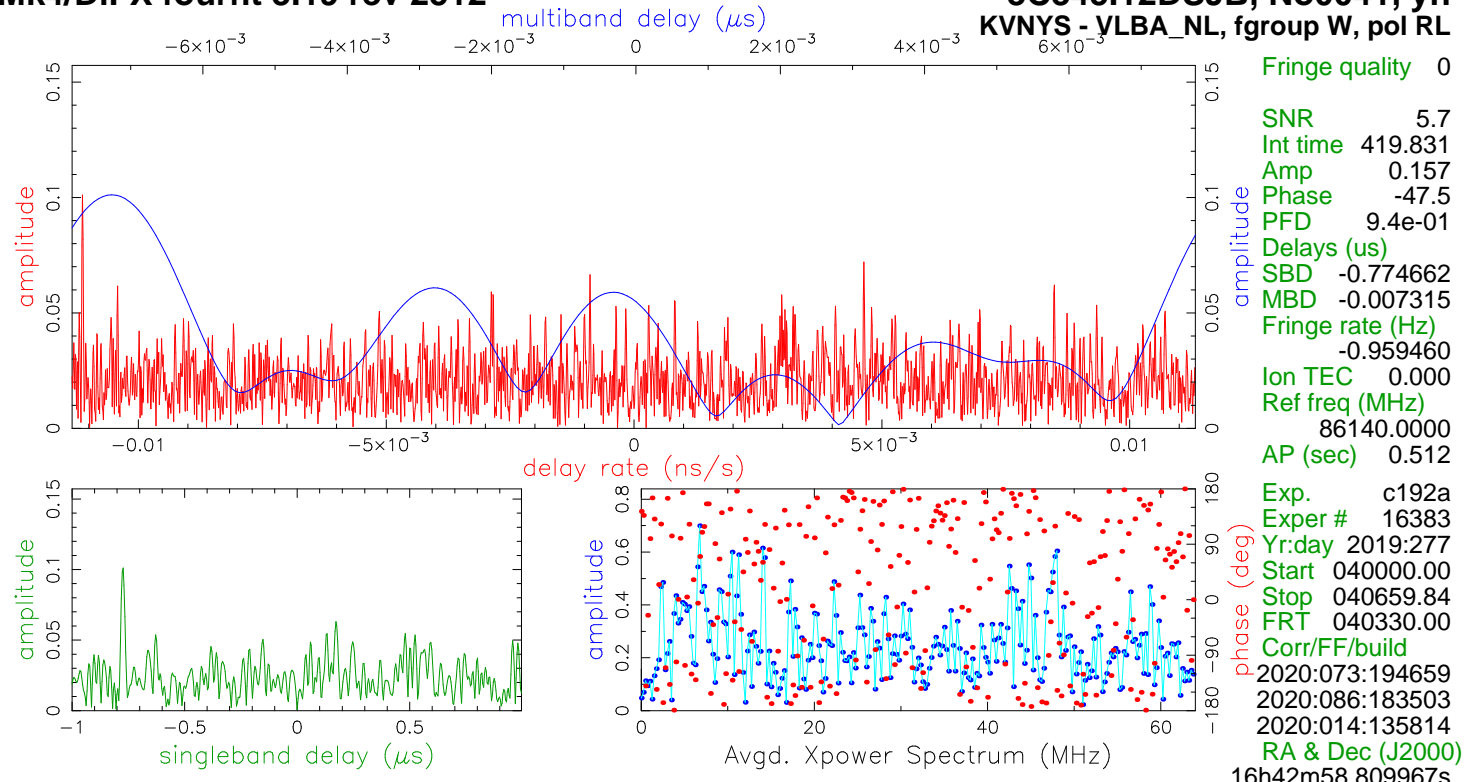
Fringe quality 0
SNR 5.8
Int time 419.831
Amp 0.143
Phase -12.1
PFD 8.5e-01
Delays (us)
SBD 0.824415
MBD 0.002238
Fringe rate (Hz)
-0.845909
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183500
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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

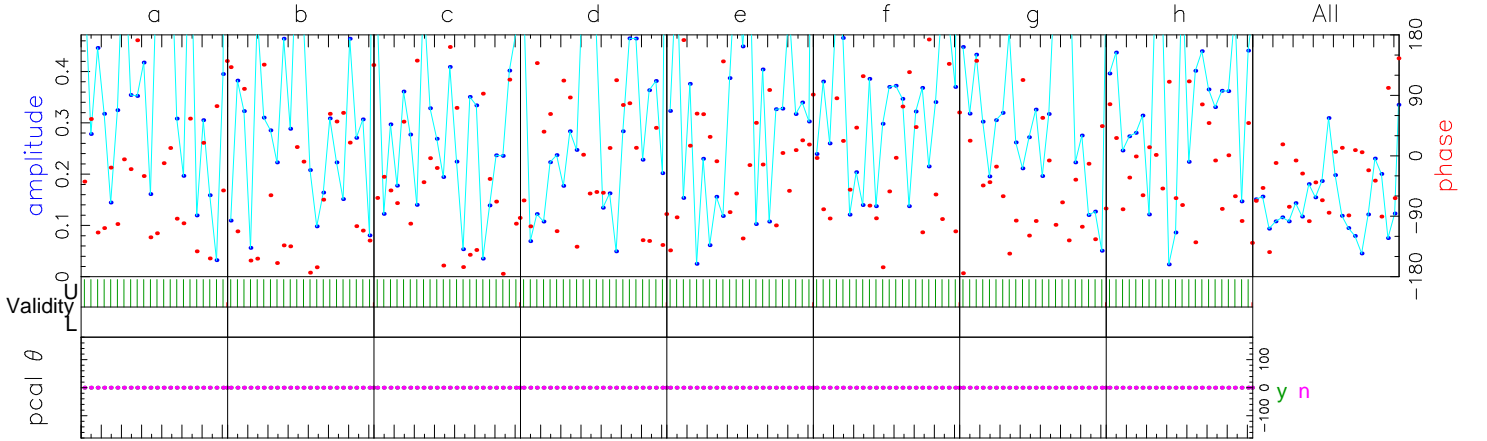


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-34.2	-22.6	-3.9	-31.7	21.7	-20.2	-14.1	-28.1	Phase	-12.1
	0.1	0.1	0.2	0.1	0.3	0.2	0.1	0.2	Ampl.	0.1
	28.3	197.2	181.3	394.8	468.6	124.3	78.7	302.4	Sbd box	468.1
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	63000	63000	63000	63000	63000	63000	63000	63000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.68932502078E+03		Apriori delay (usec)		7.68849465809E+03		Resid mbdelay (usec)		2.23769E-03	+/- 1.9E-04
Sband delay (usec)	7.68931907284E+03		Apriori clock (usec)		2.7106171E+08		Resid sbdelay (usec)		8.24415E-01	+/- 1.5E-03
Phase delay (usec)	7.68849465770E+03		Apriori clockrate (us/s)		-3.4223519E-08		Resid phdelay (usec)		-3.89797E-07	+/- 6.4E-07
Delay rate (us/s)	1.62088929342E+00		Apriori rate (us/s)		1.62089911358E+00		Resid rate (us/s)		-9.82017E-06	+/- 2.6E-09
Total phase (deg)	293.2		Apriori accel (us/s/s)		-4.49485777618E-05		Resid phase (deg)		-12.1	+/- 19.8

ph/seg (deg) RMS Theor. Amplitude 0.143 +/- 0.025 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 47.5 47.6 Search (2048X32) 0.102 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 61.9 83.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 20.5 28.1 Inc. seg. avg. 0.147 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 amp/frq (%) 45.6 49.0 Inc. frq. avg. 0.136 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 y: az 70.3 el 50.4 pa -76.7 n: az 301.9 el 25.2 pa 55.5 u,v (fr/asec) -12155.628 -3176.834 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/yn..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/yn.W.291.12DSJB

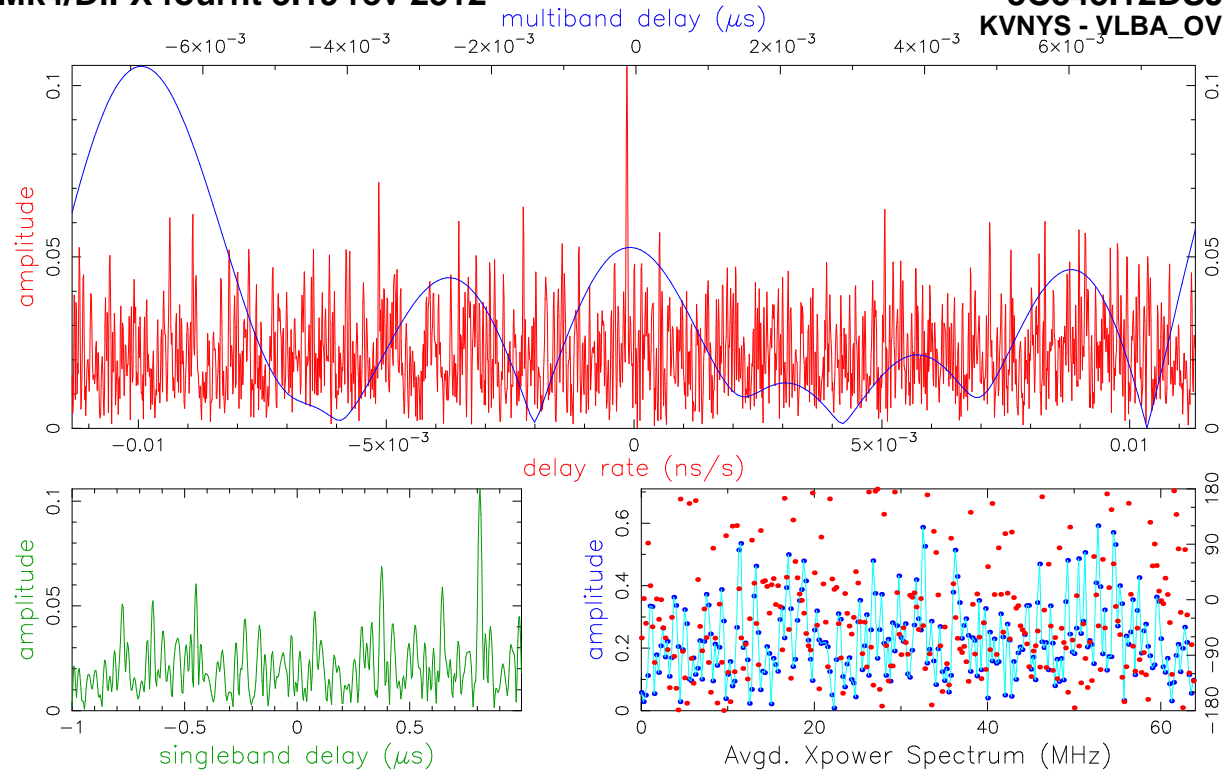


Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-38.3	-110.7	-82.3	-21.0	-34.8	-45.0	-90.2	-17.7	Phase	-47.5
	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.3	Ampl.	0.2
	26.0	108.1	78.1	272.7	57.4	299.8	302.4	115.1	Sbd box	58.7
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	63000	63000	63000	63000	63000	63000	63000	63000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	7.68772171851E+03		Apriori delay (usec)		7.68849465809E+03		Resid mbdelay (usec)		-7.31458E-03	+/- 1.9E-04
Sband delay (usec)	7.68771999559E+03		Apriori clock (usec)		2.7106171E+00		Resid sbdelay (usec)		-7.74662E-01	+/- 1.5E-03
Phase delay (usec)	7.68849465656E+03		Apriori clockrate (us/s)		-3.4223519E-08		Resid phdelay (usec)		-1.53155E-06	+/- 6.5E-07
Delay rate (us/s)	1.62088797520E+00		Apriori rate (us/s)		1.62089911358E+00		Resid rate (us/s)		-1.11384E-05	+/- 2.7E-09
Total phase (deg)	257.8		Apriori accel (us/s/s)		-4.49485777618E-05		Resid phase (deg)		-47.5	+/- 20.1

ph/seg (deg) 54.4 48.2 Search (2048X32) 0.101 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 71.3 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) 38.4 28.4 Inc. seg. avg. 0.163 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 51.3 49.6 Inc. frq. avg. 0.159 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 y: az 70.3 el 50.4 pa -76.7 n: az 301.9 el 25.2 pa 55.5 u,v (fr/asec) -12155.628 -3176.834 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/yn..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/yn.W.304.12DSJB

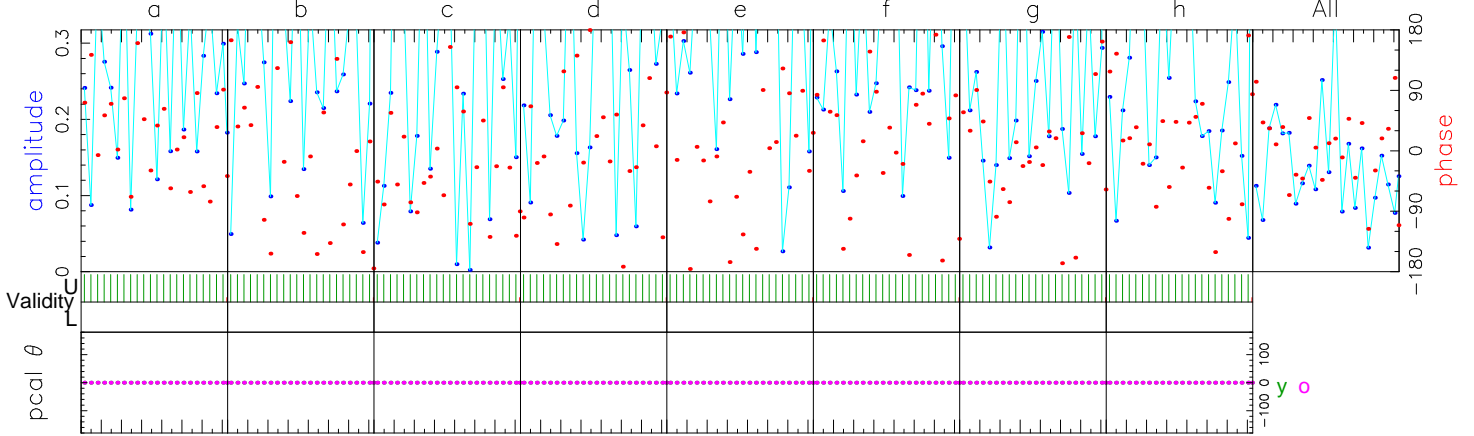


Fringe quality 0

SNR 5.9
Int time 419.826
Amp 0.106
Phase 10.7
PFD 5.4e-01
Delays (us)
SBD 0.811770
MBD -0.006890
Fringe rate (Hz)
-0.012253
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



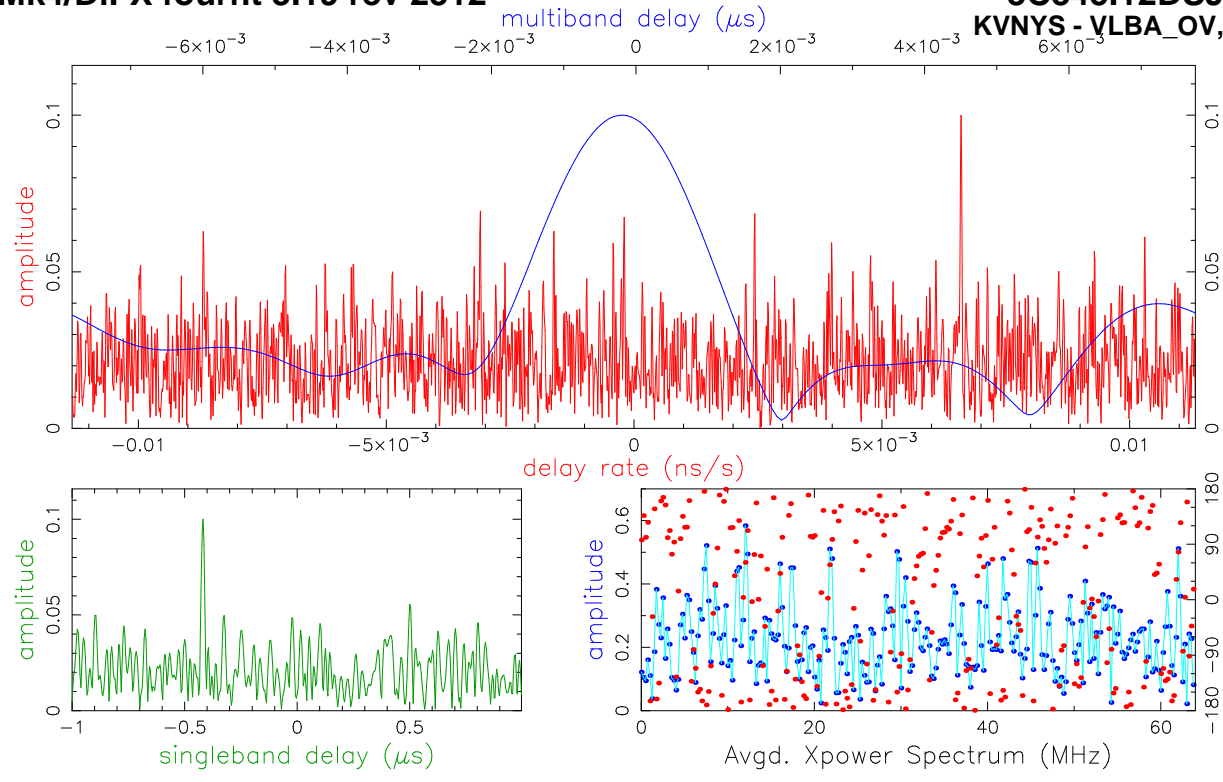
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
y:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0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

Group delay (usec)(sbd)	2.66101765450E+03	Apriori delay (usec)	2.66021204497E+03	Resid mbdelay (usec)	-6.89047E-03	+/-	1.8E-04
Sband delay (usec)	2.66102381547E+03	Apriori clock (usec)	1.2560732E+01	Resid sbdelay (usec)	8.11770E-01	+/-	1.5E-03
Phase delay (usec)	2.66021204531E+03	Apriori clockrate (us/s)	9.9018992E-08	Resid phdelay (usec)	3.46502E-07	+/-	6.2E-07
Delay rate (us/s)	1.58671358495E+00	Apriori rate (us/s)	1.58671372719E+00	Resid rate (us/s)	-1.42248E-07	+/-	2.6E-09
Total phase (deg)	210.0	Apriori accel (us/s/s)	-1.37524509743E-05	Resid phase (deg)	10.7	+/-	19.3

ph/seg (deg)	52.6	RMS	46.3	Theor.	52.6	Amplitude	0.106 +/- 0.018	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	75.3	Search (2048X32)	0.105	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)	26.3	Inc. seg. avg.	0.107	Inc. frq. avg.	0.103	Bits/sample:	2x2	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011	0.011		
amp/frq (%)	36.7	Inc. frq. avg.	0.103	nlags:	256	Data rate (Mb/s):	2048	Resid rate (us/s)	-1.42248E-07	ion window (TEC)	0.00	0.00		

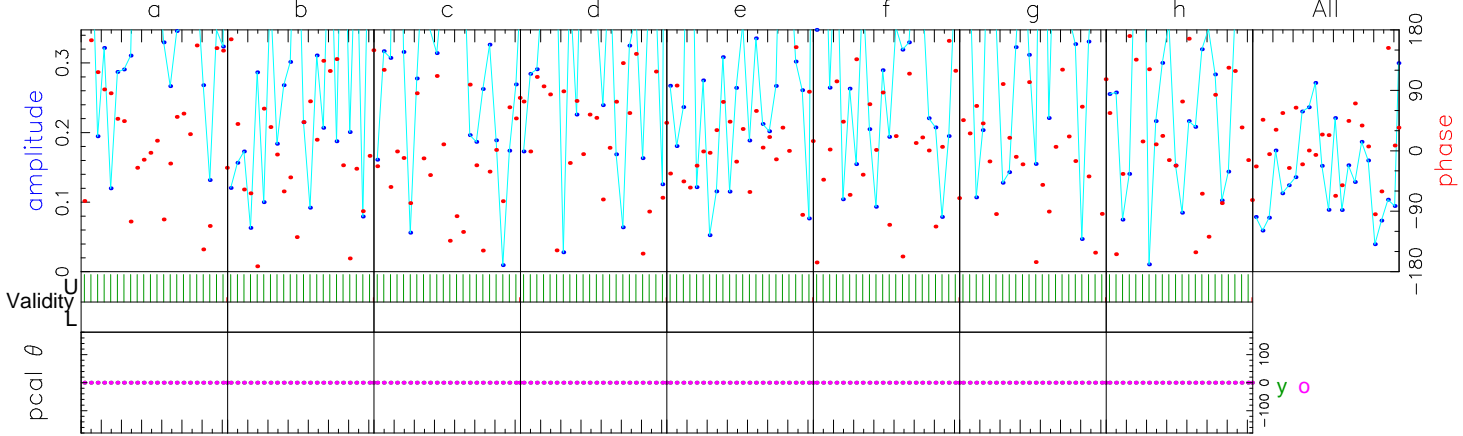
y: az 70.3 el 50.4 pa -76.7 o: az 293.7 el 41.4 pa 71.3 u,v (fr/asec) -11846.502 -724.631 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/yo..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/yo.W.258.12DSJB



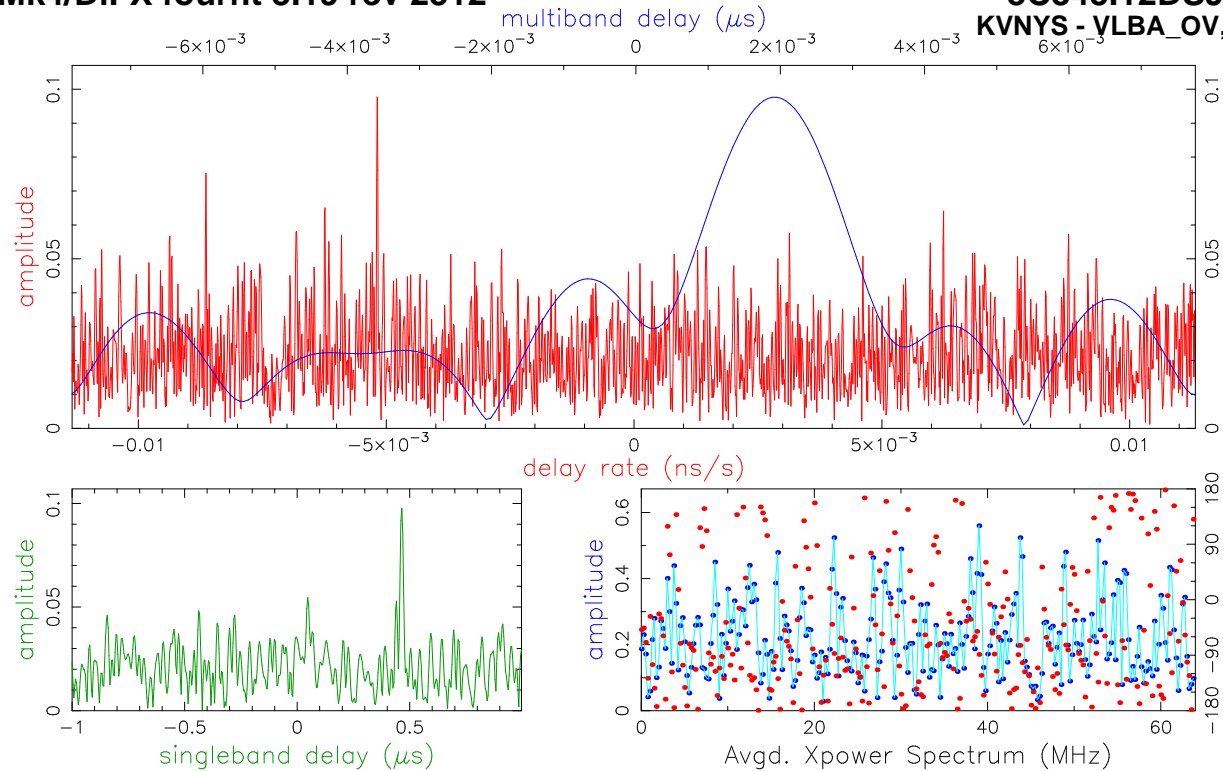
Fringe quality 0
SNR 5.6
Int time 419.826
Amp 0.116
Phase 8.3
PFD 9.9e-01
Delays (us)
SBD -0.418787
MBD -0.000222
Fringe rate (Hz) 0.568809
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183456
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



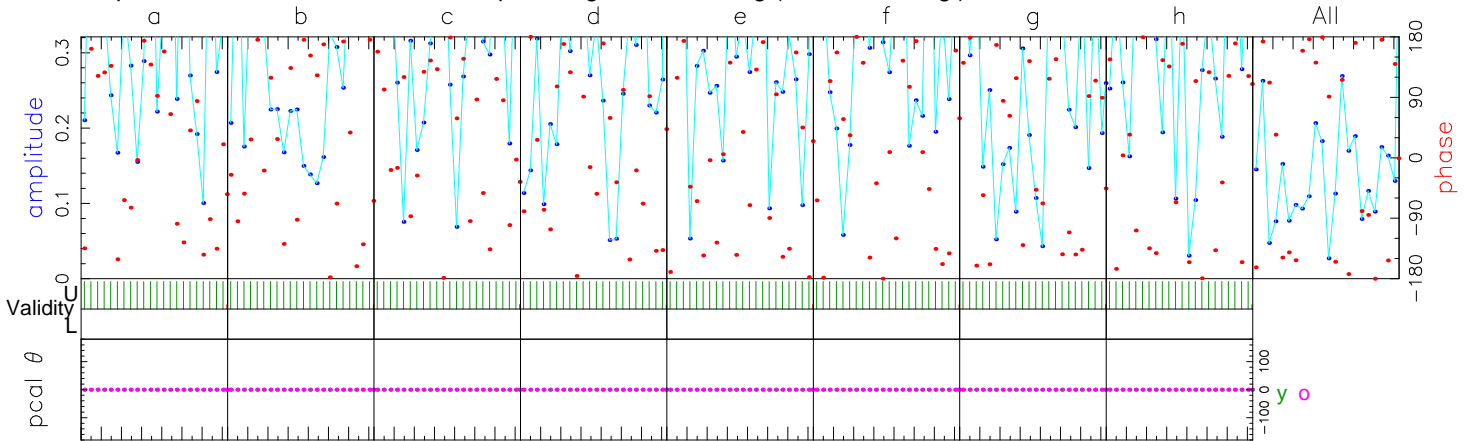
86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
13.1	-8.1	-19.8	52.6	3.3	25.5	-10.0	27.3	Phase	8.3
0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.1	Ampl.	0.1
61.7	233.9	293.9	316.1	151.1	198.7	276.0	53.0	Sbd box	149.8
U/L 820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y 63000	63000	63000	63000	63000	63000	63000	63000	PC freqs	
o 1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:0 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:0 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o 1000	1000	1000	1000	1000	1000	1000	1000		
y W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	2.65978994836E+03		Apriori delay (usec)	2.66021204497E+03		Resid mbdelay (usec)	-2.21610E-04	+/-	1.9E-04
Sband delay (usec)	2.65979325772E+03		Apriori clock (usec)	1.2560732E+01		Resid sbdelay (usec)	-4.18787E-01	+/-	1.5E-03
Phase delay (usec)	2.66021204524E+03		Apriori clockrate (us/s)	9.9018992E-08		Resid phdelay (usec)	2.68751E-07	+/-	6.6E-07
Delay rate (us/s)	1.58672033050E+00		Apriori rate (us/s)	1.58671372719E+00		Resid rate (us/s)	6.60331E-06	+/-	2.7E-09
Total phase (deg)	207.6		Apriori accel (us/s/s)	-1.37524509743E-05		Resid phase (deg)	8.3	+/-	20.4

ph/seg (deg) 53.3 48.8 Search (2048X32) 0.095 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 72.6 85.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 26.0 28.8 Inc. seg. avg. 0.116 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.7 50.3 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
 y: az 70.3 el 50.4 pa -76.7 o: az 293.7 el 41.4 pa 71.3 u,v (fr/asec) -11846.502 -724.631 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/yo..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/yo.W.273.12DSJB



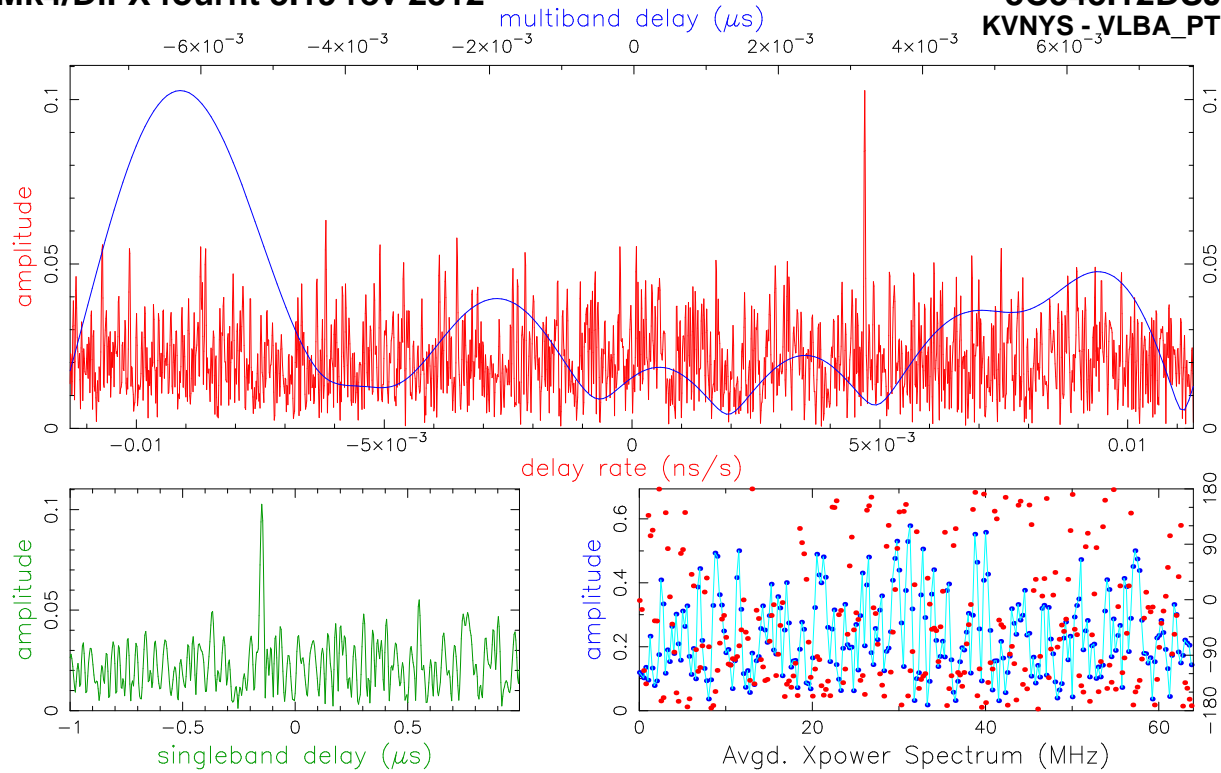
Fringe quality 0
SNR 5.5
Int time 419.826
Amp 0.107
Phase 176.6
PFD 1.0e+00
Delays (us)
SBD 0.464094
MBD 0.001936
Fringe rate (Hz)
-0.447209
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
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		
y	63000	63000	63000	63000	63000	63000	63000	63000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.66068273055E+03					2.66021204497E+03			Resid mbdelay (usec)	1.93558E-03 +/- 2.0E-04
Sband delay (usec)	2.66067613847E+03					1.2560732E+01			Resid sbdelay (usec)	4.64094E-01 +/- 1.6E-03
Phase delay (usec)	2.66021205066E+03					9.9018992E-08			Resid phdelay (usec)	5.69332E-06 +/- 6.7E-07
Delay rate (us/s)	1.58670853554E+00					1.58671372719E+00			Resid rate (us/s)	-5.19166E-06 +/- 2.8E-09
Total phase (deg)			15.8			-1.37524509743E-05			Resid phase (deg)	176.6 +/- 20.9

ph/seg (deg) 56.3 50.0 Search (2048X32) 0.096 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 78.7 87.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 25.8 29.5 Inc. seg. avg. 0.108 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 46.4 51.5 Inc. frq. avg. 0.099 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 y: az 70.3 el 50.4 pa -76.7 o: az 293.7 el 41.4 pa 71.3 u,v (fr/asec) -11846.502 -724.631 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/yo..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/yo.W.289.12DSJB

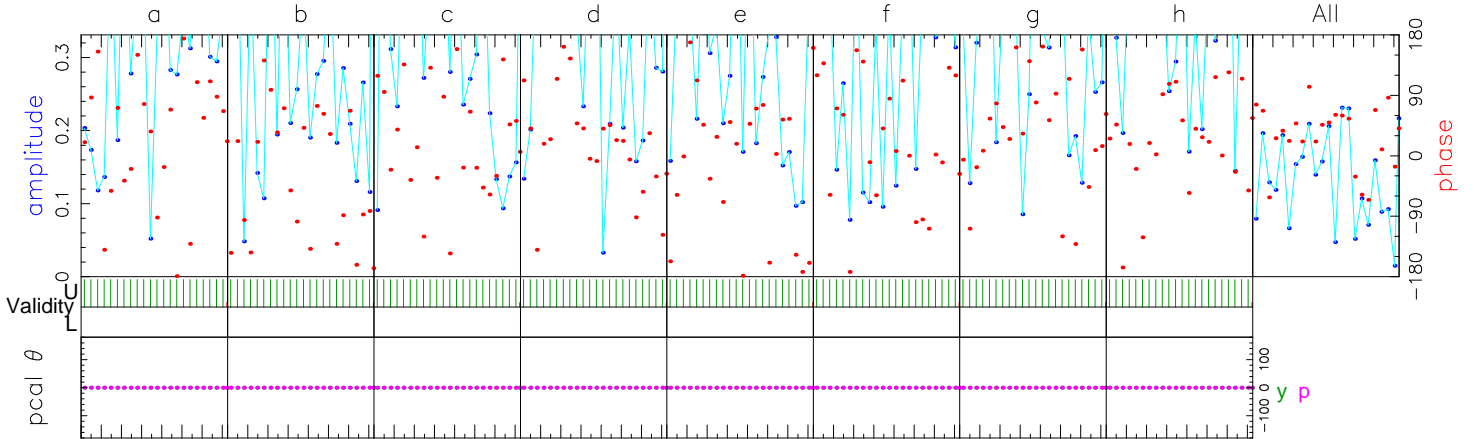


Fringe quality 0

SNR 5.8
Int time 419.829
Amp 0.110
Phase 43.3
PFD 8.8e-01
Delays (us)
SBD -0.148322
MBD -0.006285
Fringe rate (Hz)
0.404915
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

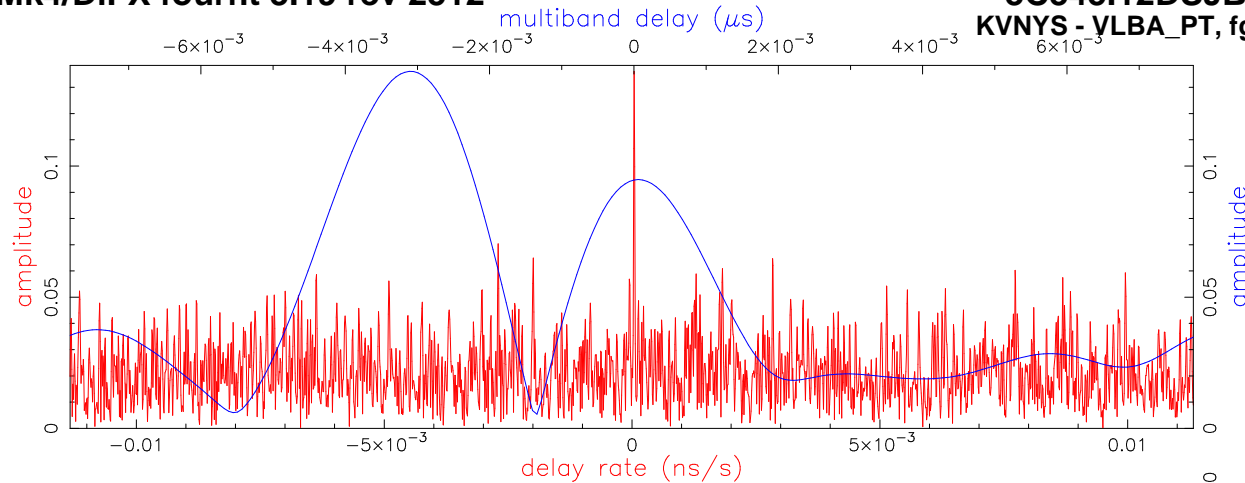


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
y:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	5.25456121747E+03		Apriori delay (usec)		5.25470812754E+03		Resid mbdelay (usec)		-6.28507E-03	+/- 1.9E-04
Sband delay (usec)	5.25455980529E+03		Apriori clock (usec)		1.7277668E+01		Resid sbdelay (usec)		-1.48322E-01	+/- 1.5E-03
Phase delay (usec)	5.25470812893E+03		Apriori clockrate (us/s)		-1.0388660E-07		Resid phdelay (usec)		1.39640E-06	+/- 6.4E-07
Delay rate (us/s)	1.68052111597E+00		Apriori rate (us/s)		1.68051641531E+00		Resid rate (us/s)		4.70066E-06	+/- 2.6E-09
Total phase (deg)	81.5		Apriori accel (us/s/s)		-2.45364448965E-05		Resid phase (deg)		43.3	+/- 19.9

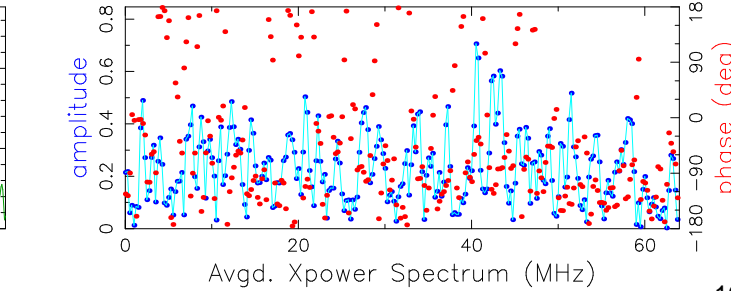
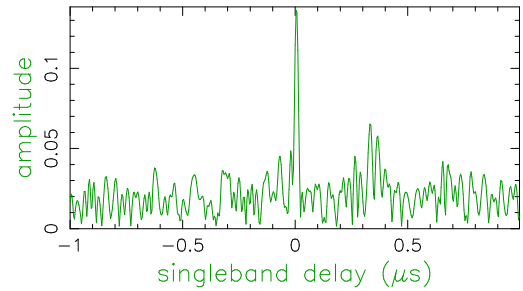
ph/seg (deg) 49.2 47.7 Search (2048X32) 0.098 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 67.2 83.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 20.5 28.2 Inc. seg. avg. 0.106 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 48.2 49.1 Inc. frq. avg. 0.102 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 y: az 70.3 el 50.4 pa -76.7 p: az 298.8 el 32.7 pa 70.0 u,v (fr/asec) -12563.254 -1139.442 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/yp..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/yp.W.257.12DSJB

Mk4/DiFX fourfit 3.19 rev 2512

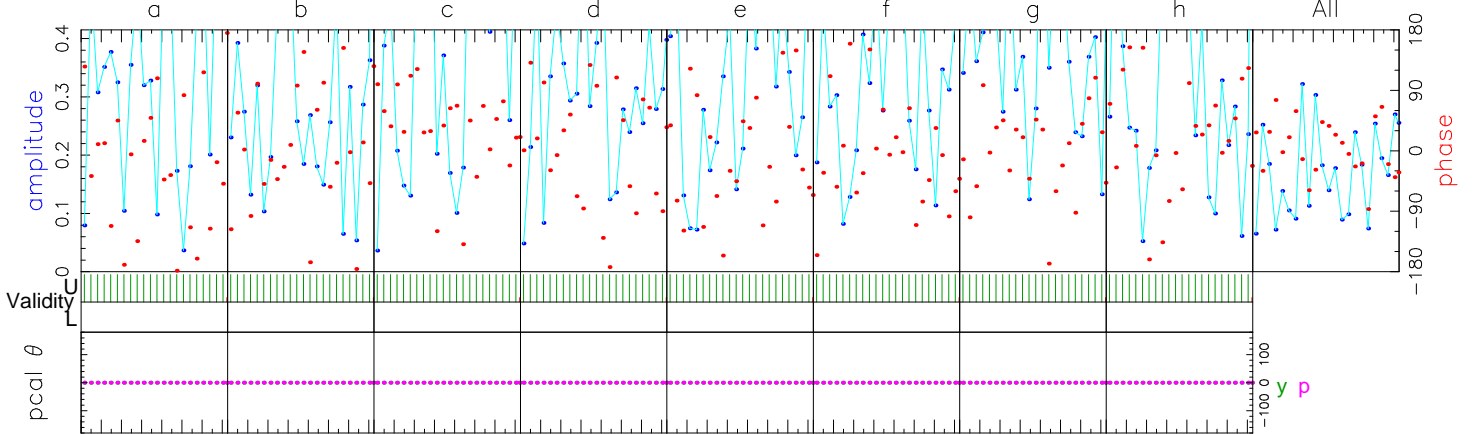
3C345.12DSJB, No0041, yp
KVNS - VLBA_PT, fgroup W, pol RR



Fringe quality 9
SNR 7.8
Int time 419.829
Amp 0.138
Phase 1.0
PFD 3.0e-06
Delays (us)
SBD 0.005612
MBD -0.003073
Fringe rate (Hz) 0.004271
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
2020:086:183456
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

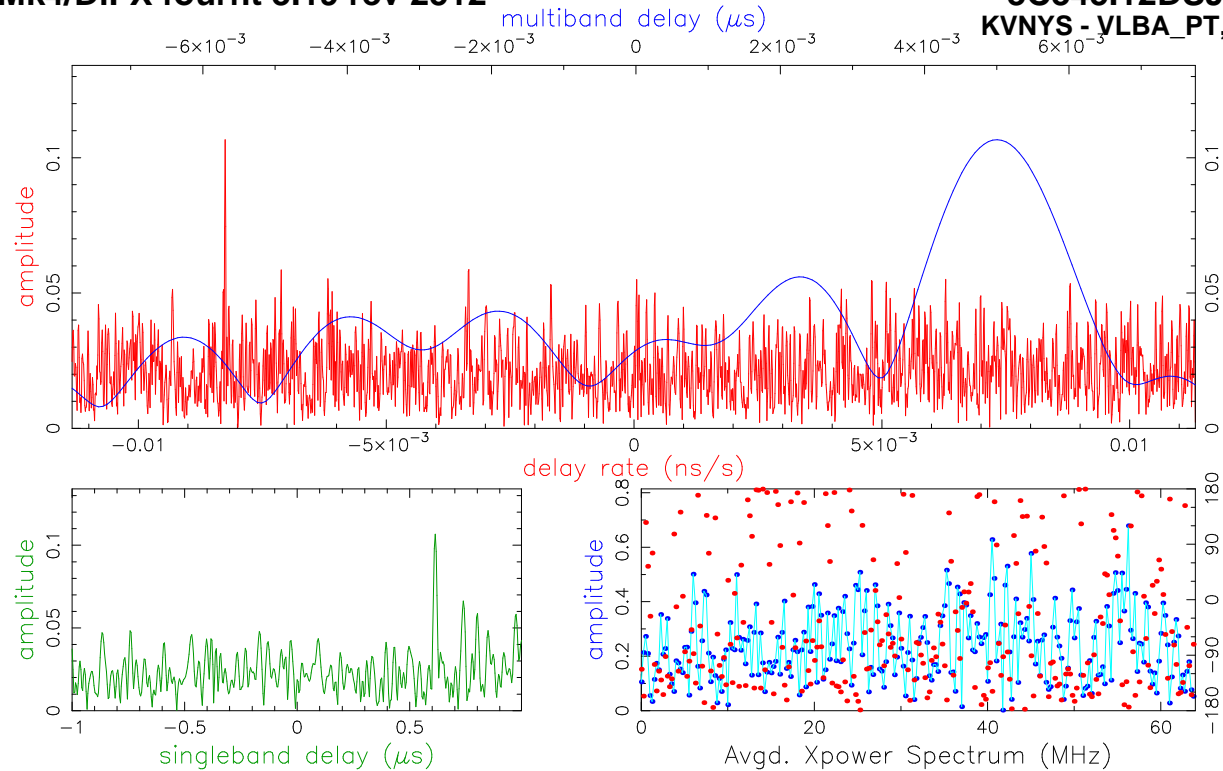


Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



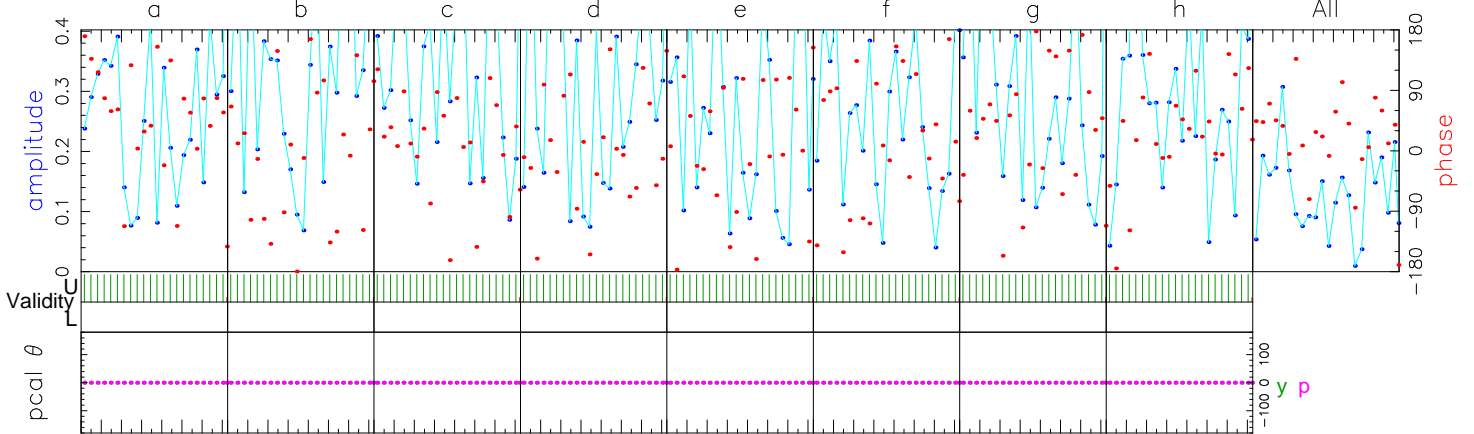
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-34.7	-3.8	43.3	-7.0	-39.7	-21.5	4.8	14.8	Phase	1.0
	0.1	0.1	0.3	0.1	0.1	0.2	0.1	0.1	Ampl.	0.1
	178.6	342.0	257.8	423.8	423.1	146.0	258.0	388.8	Sbd box	258.4
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	63000	63000	63000	63000	63000	63000	63000	63000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.25472067983E+03		Apriori delay (usec)		5.25470812754E+03		Resid mbdelay (usec)		-3.07271E-03	+/- 1.4E-04
Sband delay (usec)	5.25471373979E+03		Apriori clock (usec)		1.7277668E+01		Resid sbdelay (usec)		5.61225E-03	+/- 1.1E-03
Phase delay (usec)	5.25470812757E+03		Apriori clockrate (us/s)		-1.0388660E-07		Resid phdelay (usec)		3.13083E-08	+/- 4.8E-07
Delay rate (us/s)	1.68051646489E+00		Apriori rate (us/s)		1.68051641531E+00		Resid rate (us/s)		4.95870E-08	+/- 2.0E-09
Total phase (deg)	39.2		Apriori accel (us/s/s)		-2.45364448965E-05		Resid phase (deg)		1.0	+/- 14.8

ph/seg (deg) 41.2 35.4 Search (2048X32) 0.129 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 59.5 61.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 30.3 20.9 Inc. seg. avg. 0.142 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 47.2 36.5 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
y: az 70.3 el 50.4 pa -76.7 p: az 298.8 el 32.7 pa 70.0 u,v (fr/asec) -12563.254 -1139.442 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/yp..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/yp.W.274.12DSJB



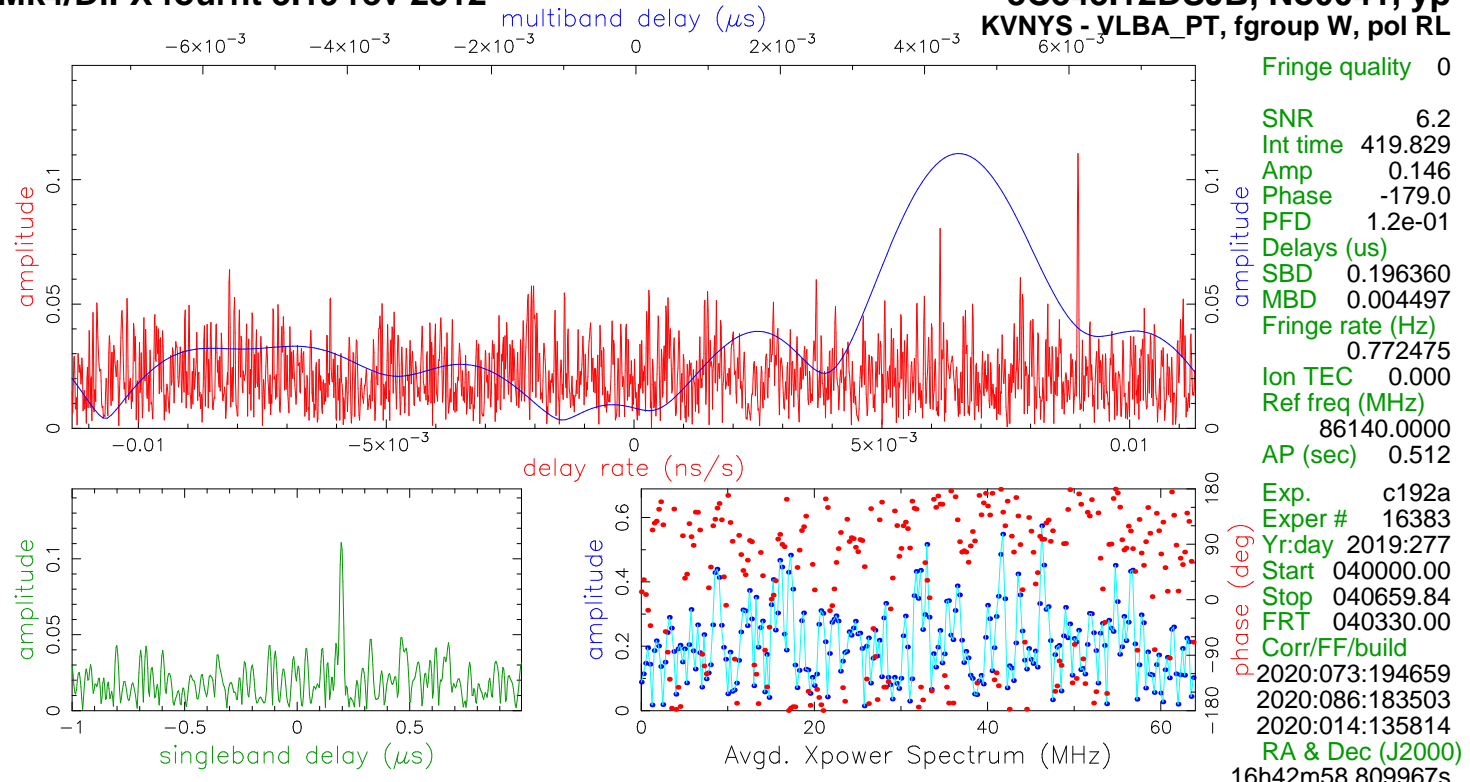
Fringe quality 0
SNR 6.0
Int time 419.829
Amp 0.134
Phase 39.1
PFD 4.4e-01
Delays (us)
SBD 0.613132
MBD 0.004998
Fringe rate (Hz)
-0.711701
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Yr:day 16383
Start 2019:277
Stop 2019:277
FRT 040000.00
040659.84
040330.00
Corr/FF/build
2020:073:194659
2020:086:183500
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

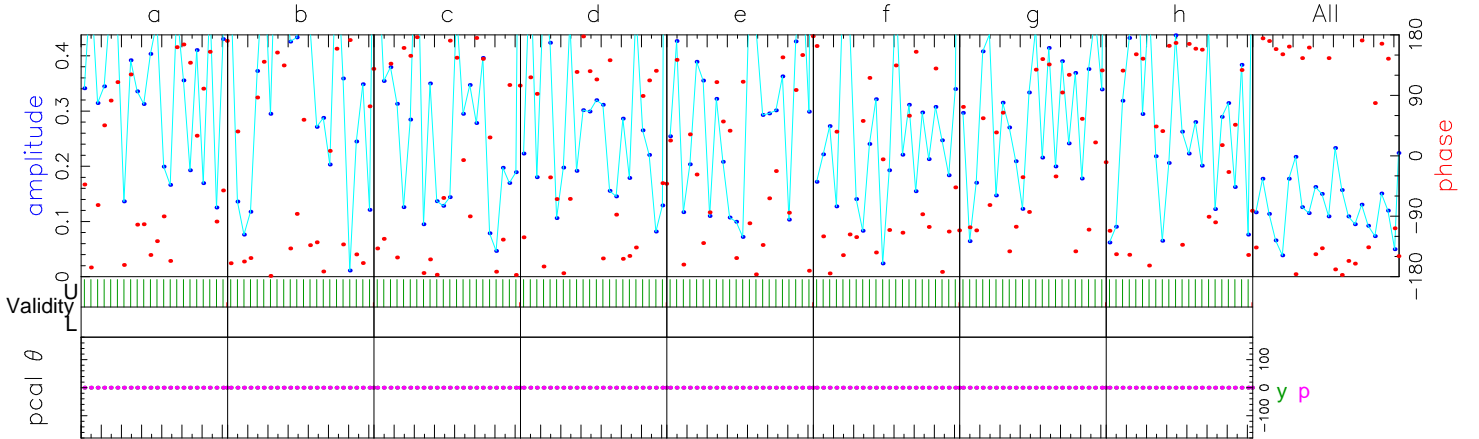


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	
y	63000	63000	63000	63000	63000	63000	63000	63000	63000	63000	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
y:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	
y:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	
y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL			
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR			
Group delay (usec)(sbd)		5.25532250102E+03			5.25470812754E+03				4.99848E-03	+/- 1.8E-04	
Sband delay (usec)		5.25532125954E+03			1.7277668E+01				6.13132E-01	+/- 1.4E-03	
Phase delay (usec)		5.25470812880E+03			-1.0388660E-07				1.26047E-06	+/- 6.2E-07	
Delay rate (us/s)		1.68050815317E+00			1.68051641531E+00				-8.26214E-06	+/- 2.6E-09	
Total phase (deg)			77.3		-2.45364448965E-05				39.1	+/- 19.2	
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

ph/seg (deg) 51.4 46.0 Search (2048X32) 0.103 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 69.8 80.2 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 27.1 Inc. seg. avg. 0.127 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 46.8 47.3 Inc. frq. avg. 0.133 Sample rate (MSamp/s): 128 dr window (ns/s) -0.011 0.011
y: az 70.3 el 50.4 pa -76.7 p: az 298.8 el 32.7 pa 70.0 u,v (fr/asec) -12563.254 -1139.442 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/yp..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/yp.W.290.12DSJB simultaneous interpolator



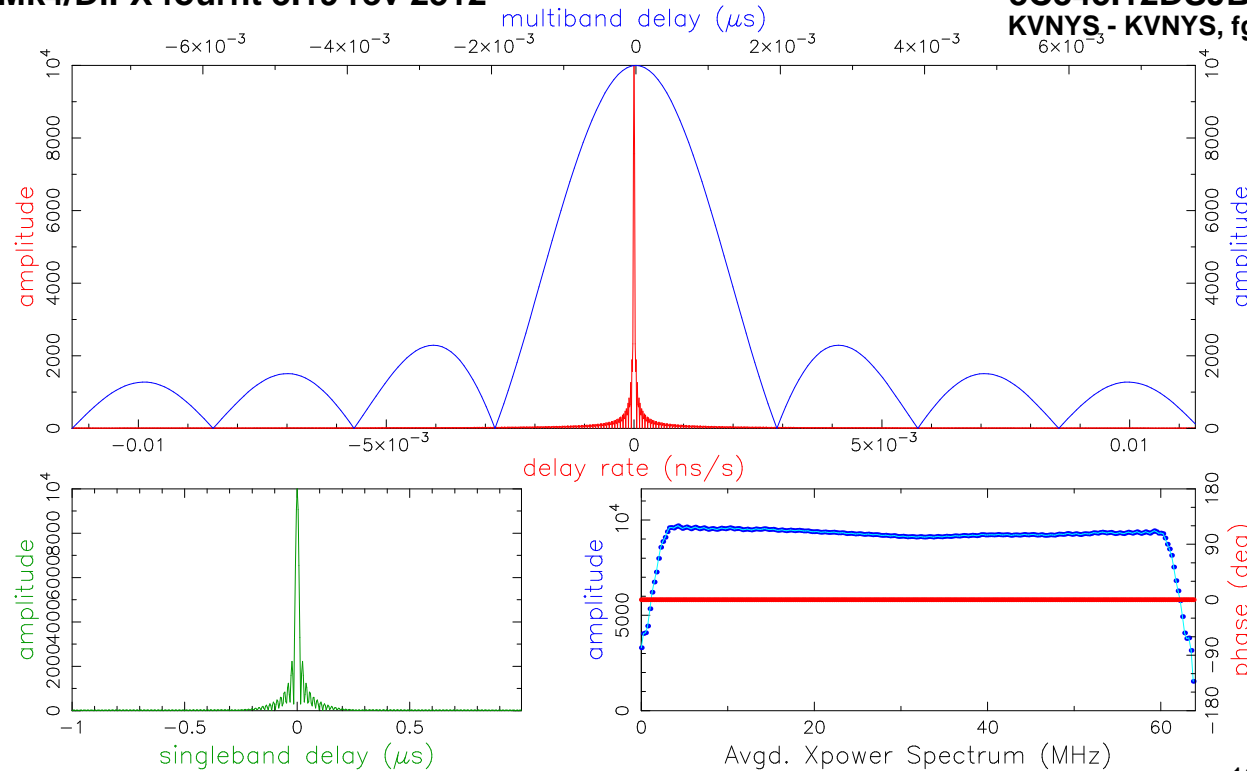
Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.94 sec / seg.), time ticks 30 sec



	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		
y	63000	63000	63000	63000	63000	63000	63000	63000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
y:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
y	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)		5.25490012427E+03			5.25470812754E+03			4.49673E-03		+/- 1.7E-04
Sband delay (usec)		5.25490448754E+03			1.7277668E+01			1.96360E-01		+/- 1.4E-03
Phase delay (usec)		5.25470812177E+03			-1.0388660E-07			-5.77146E-06		+/- 5.9E-07
Delay rate (us/s)		1.68052538298E+00			1.68051641531E+00			8.96767E-06		+/- 2.4E-09
Total phase (deg)			-140.8		-2.45364448965E-05			-179.0		+/- 18.4
RMS	36.6	44.1								
ph/seg (deg)	36.6	44.1								
amp/seg (%)	46.2	77.0								
ph/frq (deg)	35.0	26.0								
amp/frq (%)	43.1	45.4								
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
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)										
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								

y: az 70.3 el 50.4 pa -76.7 p: az 298.8 el 32.7 pa 70.0 u,v (fr/asec) -12563.254 -1139.442 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/yp..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/yp.W.303.12DSJB

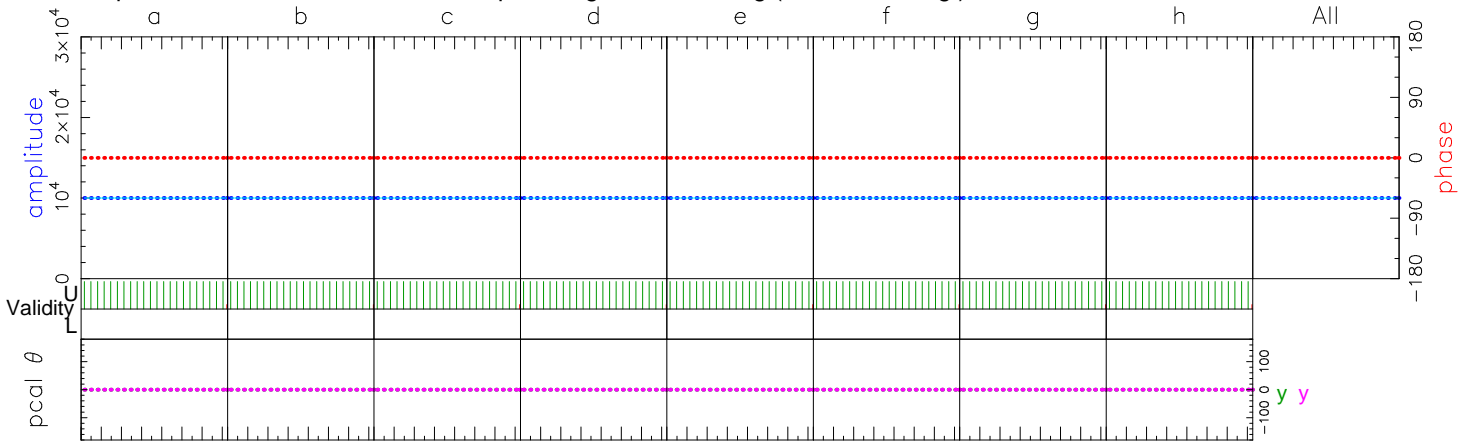


Fringe quality 9

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
2020:086:183457
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

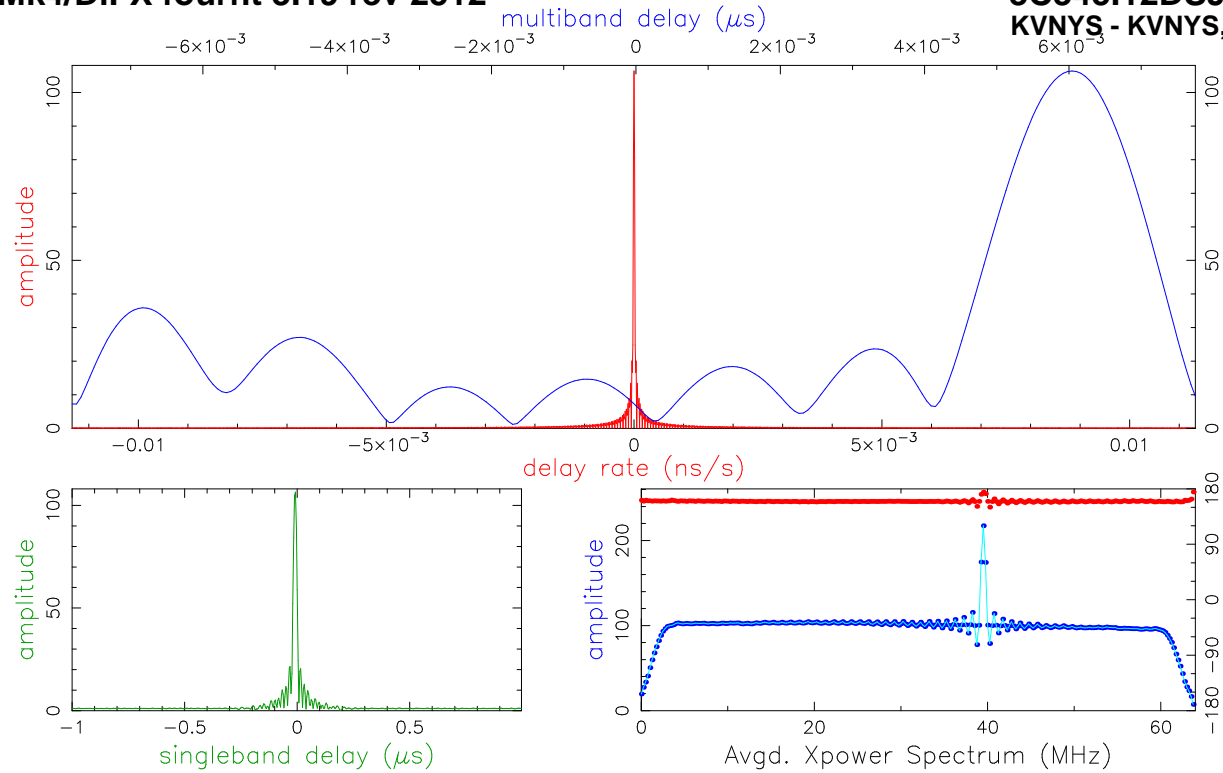


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	Ampl.	10000.0
y	63000	63000	63000	63000	63000	63000	63000	63000	Sbd box	257.0
y	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
y:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
y:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	Resid mbdelay (usec)	0.00000E+00 +/- 1.9E-09
Sband delay (usec)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	Resid sbdelay (usec)	0.00000E+00 +/- 1.5E-08
Phase delay (usec)	4.72137090149E-20	4.72137090149E-20	4.72137090149E-20	4.72137090149E-20	4.72137090149E-20	4.72137090149E-20	4.72137090149E-20	4.72137090149E-20	Resid phdelay (usec)	4.72137E-20 +/- 6.6E-12
Delay rate (us/s)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	Resid rate (us/s)	0.00000E+00 +/- 2.7E-14
Total phase (deg)			0.0						Resid phase (deg)	0.0 +/- 0.0

ph/seg (deg) 0.0 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 Search (2048X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 y: az 70.3 el 50.4 pa -76.7 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/yy..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/yy.W.282.12DSJB simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

3C345.12DSJB, No0041, yy
KVNYS - KVNYS, fgroup W, pol LR

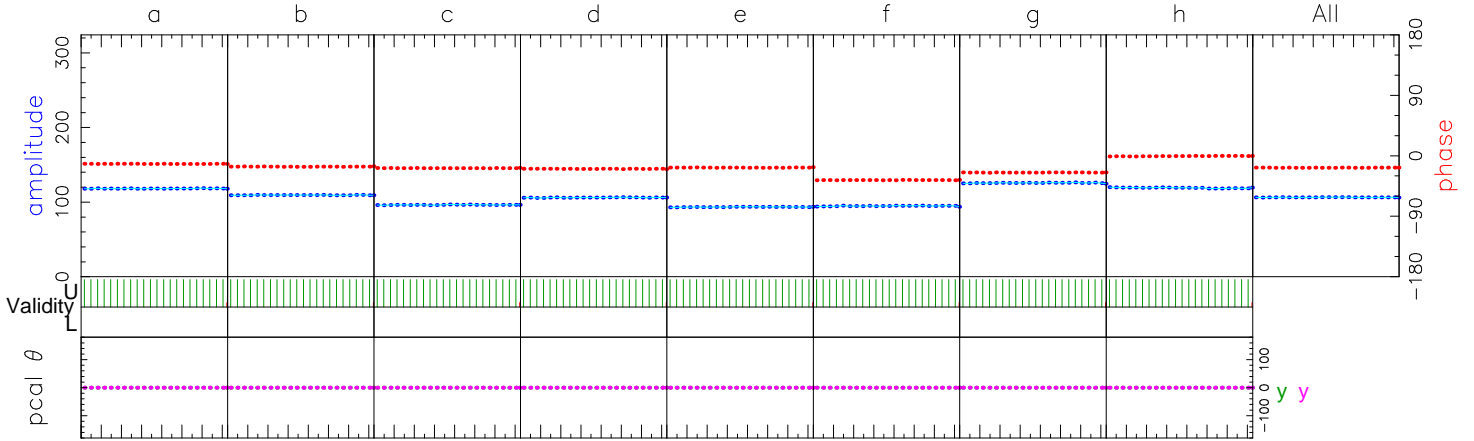


Fringe quality 9

SNR 6055.4
Int time 419.840
Amp 108.069
Phase -17.7
PFD 0.0e+00
Delays (us)
SBD -0.009401
MBD 0.006045
Fringe rate (Hz) 0.000000
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

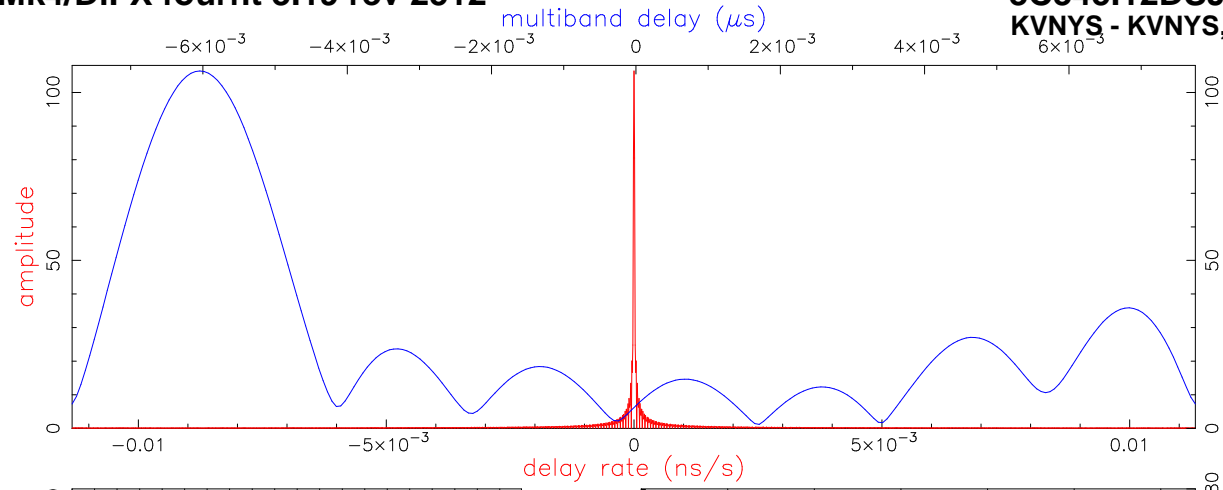
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183501
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

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

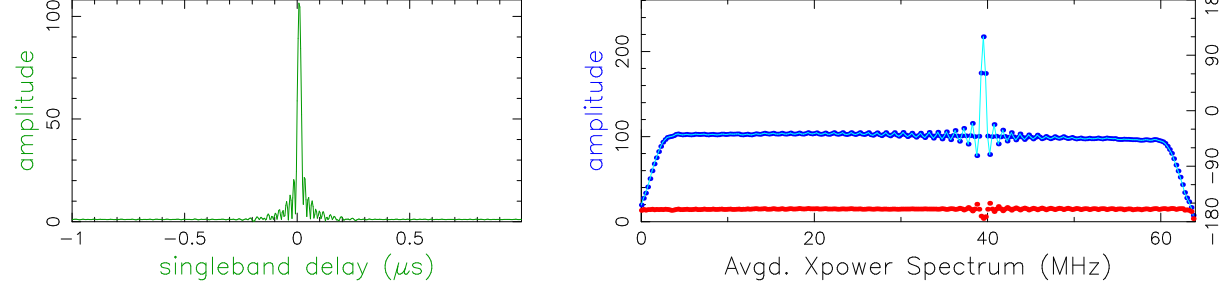


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-12.0	-16.2	-18.4	-19.4	-17.6	-36.2	-24.9	-0.5	Phase	-17.7
	118.2	109.4	96.3	106.1	93.5	94.8	125.8	119.1	Ampl.	107.9
	254.4	254.5	254.6	254.6	254.5	254.5	254.8	254.9	Sbd box	254.6
U/L	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	63000	63000	63000	63000	63000	63000	63000	63000	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-9.57981250000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		6.04519E-03	+/- 1.8E-07
Sband delay (usec)	-9.40125000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-9.40125E-03	+/- 1.4E-06
Phase delay (usec)	-5.71142159805E-07		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-5.71142E-07	+/- 6.1E-10
Delay rate (us/s)	1.41711523917E-12		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		1.41712E-12	+/- 2.5E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-17.7	+/- 0.0

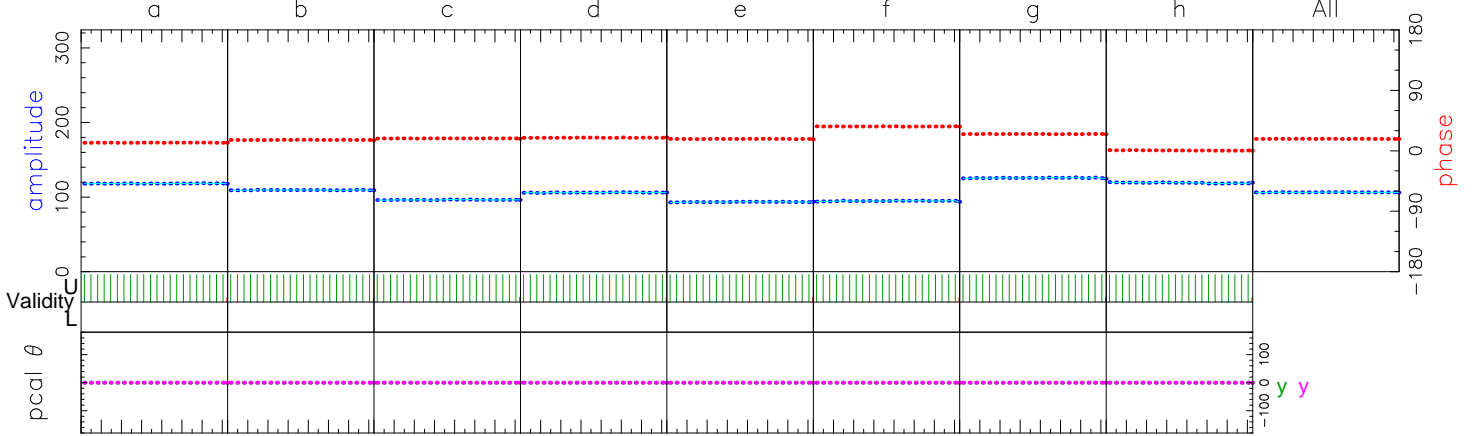
ph/seg (deg) 0.1 0.0 Theor. Amplitude 108.069 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.5 0.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 11.0 0.0 Inc. seg. avg. 106.424 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 10.7 0.0 Inc. frq. avg. 107.907 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/yy..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/yy.W.297.12DSJB



Fringe quality 9
SNR 6055.4
Int time 419.840
Amp 108.069
Phase 17.7
PFD 0.0e+00
Delays (us)
SBD 0.009401
MBD -0.006045
Fringe rate (Hz)
-0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:277
Start 040000.00
Stop 040659.84
FRT 040330.00
Corr/FF/build
2020:073:194659
2020:086:183505
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	12.0	16.2	18.4	19.4	17.6	36.2	24.9	0.5	Phase	17.7
y	118.2	109.4	96.3	106.1	93.5	94.8	125.8	119.1	Ampl.	107.9
y	259.6	259.5	259.4	259.4	259.5	259.5	259.2	259.1	Sbd box	259.4
y	820/0	820/0	820/0	820/0	820/0	820/0	820/0	820/0	APs used	
y	63000	63000	63000	63000	63000	63000	63000	63000	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
y:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	9.57981250000E-03		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-6.04519E-03	+/- 1.8E-07
Sband delay (usec)	9.40125000000E-03		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		9.40125E-03	+/- 1.4E-06
Phase delay (usec)	5.71142159855E-07		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		5.71142E-07	+/- 6.1E-10
Delay rate (us/s)	-1.41711523917E-12		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-1.41712E-12	+/- 2.5E-12
Total phase (deg)	17.7		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		17.7	+/- 0.0

ph/seg (deg) 0.1 0.0 Theor. Amplitude 108.069 +/- 0.018 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 1.5 0.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 11.0 0.0 Inc. seg. avg. 106.424 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 10.7 0.0 Inc. frq. avg. 107.907 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 y: az 70.3 el 50.4 pa -76.7 y: az 70.3 el 50.4 pa -76.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v1_PV/1234/No0041/yy..12DSJB Output file: /Exps/c192a/v1_PV/1234/No0041/yy.W.306.12DSJB