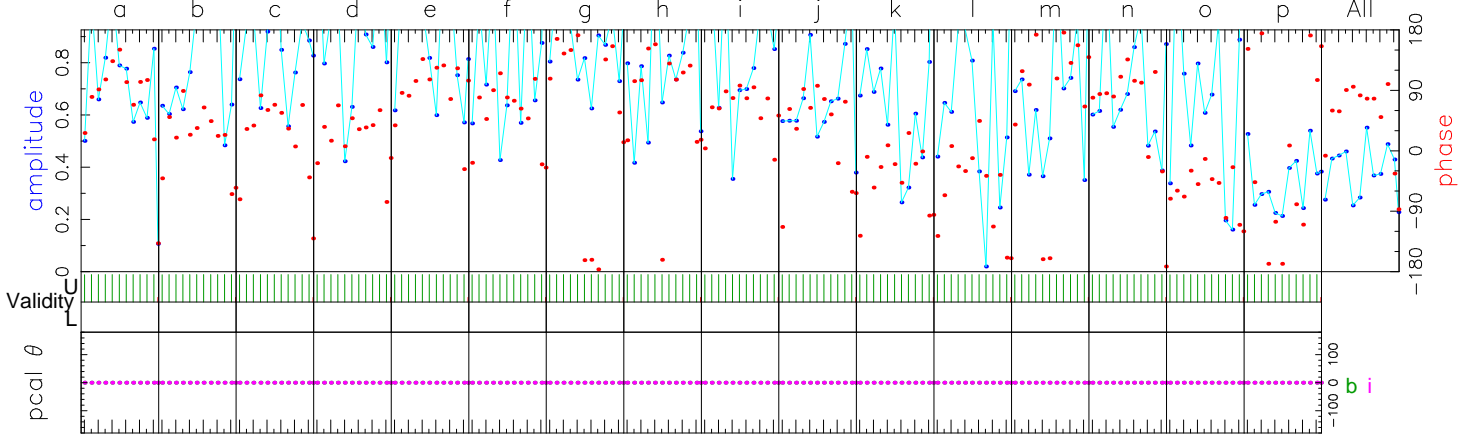


Fringe quality 9

SNR 15.0
Int time 314.116
Amp 0.309
Phase 65.0
PFD 8.3e-42
Delays (us)
SBD 0.001814
MBD -0.014696
Fringe rate (Hz) 0.010024
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build 2020:083:003228
2020:093:042727
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
UL	94.3	31.5	39.0	26.1	98.6	62.0	154.1	114.7	62.9	46.8	-35.4	-48.9	134.4	93.2	-58.9	-166.1	Phase	65.0				
b	0.6	0.7	0.6	0.7	0.7	0.7	0.5	0.7	0.4	0.5	0.3	0.5	0.5	0.6	0.1	0.1	Ampl.	0.5				
i	128.4	128.5	129.6	129.0	128.8	129.2	129.0	128.4	129.5	128.8	128.6	128.6	128.2	128.2	128.8	114.2	Sbd box	129.2				
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	APs used					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
b:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids					
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks					
																	Chan ids					
																	Tracks					
Group delay (usec)(sbd)			-6.72408425290E+03														Apriori delay (usec)	-6.72410080713E+03	Resid mbdelay (usec)	-1.46958E-02	+/-	7.2E-05
Sband delay (usec)			-6.72409899313E+03														Apriori clock (usec)	-1.2372863E-01	Resid sbdelay (usec)	1.81400E-03	+/-	1.2E-03
Phase delay (usec)			-6.72410080504E+03														Apriori clockrate (us/s)	1.1060491E-07	Resid phdelay (usec)	2.09731E-06	+/-	2.5E-07
Delay rate (us/s)			1.34872448721E+00														Apriori rate (us/s)	1.34872437085E+00	Resid rate (us/s)	1.16366E-07	+/-	1.4E-09
Total phase (deg)					-124.5												Apriori accel (us/s/s)	4.59892593383E-05	Resid phase (deg)	65.0	+/-	7.7

ph/seg (deg) 44.8 13.3
amp/seg (%) 40.8 23.2
ph/frq (deg) 74.0 15.3
amp/frq (%) 96.3 26.7

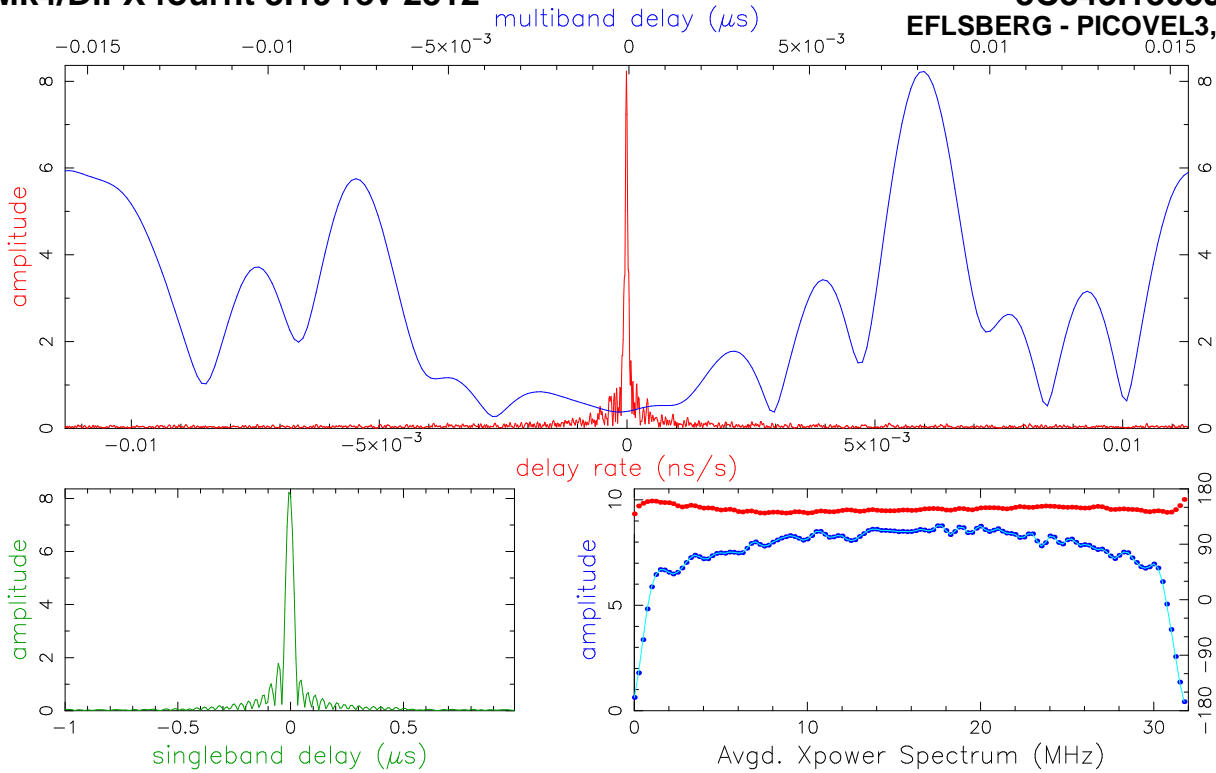
RMS Theor. Amplitude 0.309 +/- 0.021
Search (2048X64) 0.301
Interp. 0.000
Inc. seg. avg. 0.384
Inc. frq. avg. 0.538

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): 64
Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite

sb window (us) -1.000 1.000
mb window (us) -0.016 0.016
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

b: az 66.1 el 33.9 pa -52.6 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -9968.663 4094.485 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/bi..1305JH Output file: /Exps/c192a/v2/1234/No0001/bi.W.16.1305JH

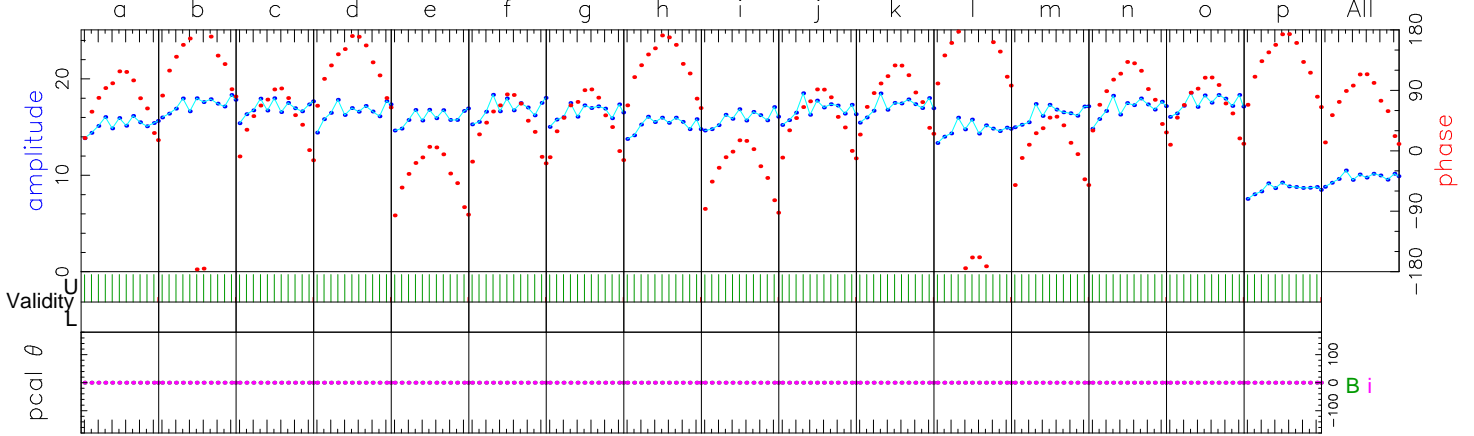


Fringe quality 3

SNR 405.4
Int time 314.116
Amp 8.366
Phase 74.4
PFD 0.0e+00
Delays (us)
SBD -0.004449
MBD 0.008149
Fringe rate (Hz)
-0.000754
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042729
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All		
U/L	79.0	143.0	53.0	129.5	-33.0	44.4	51.6	130.3	-24.1	51.5	87.0	162.5	10.9	91.8	70.5	133.6	Phase	74.4		
B	12.9	14.5	14.3	13.9	13.4	14.2	13.9	12.9	13.4	14.2	14.4	12.5	13.7	14.3	14.8	7.2	Ampl.	13.4		
B:i	129.0	129.0	129.1	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	Sbd box	128.4		
B:i	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used			
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase			
B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	PC amp			
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000				
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids			
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks			
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids			
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks			
B	Group delay (usec)(sbd)		-1.05989291786E+03				Apriori delay (usec)				-1.05990106636E+03				Resid mbdelay (usec)				8.14850E-03 +/- 2.7E-06	
B	Sband delay (usec)		-1.05990551536E+03				Apriori clock (usec)				1.7328032E+01				Resid sbdelay (usec)				-4.44900E-03 +/- 4.2E-05	
B	Phase delay (usec)		-1.05990106396E+03				Apriori clockrate (us/s)				1.5299999E-07				Resid phdelay (usec)				2.39938E-06 +/- 9.1E-09	
B	Delay rate (us/s)		1.22893304031E-02				Apriori rate (us/s)				1.22893391516E-02				Resid rate (us/s)				-8.74856E-09 +/- 5.0E-11	
B	Total phase (deg)		-233.8				Apriori accel (us/s/s)				1.79330549472E-05				Resid phase (deg)				74.4 +/- 0.3	

ph/seg (deg) 33.4 0.5
amp/seg (%) 17.7 0.9
ph/frq (deg) 59.9 0.6
amp/frq (%) 63.8 1.0

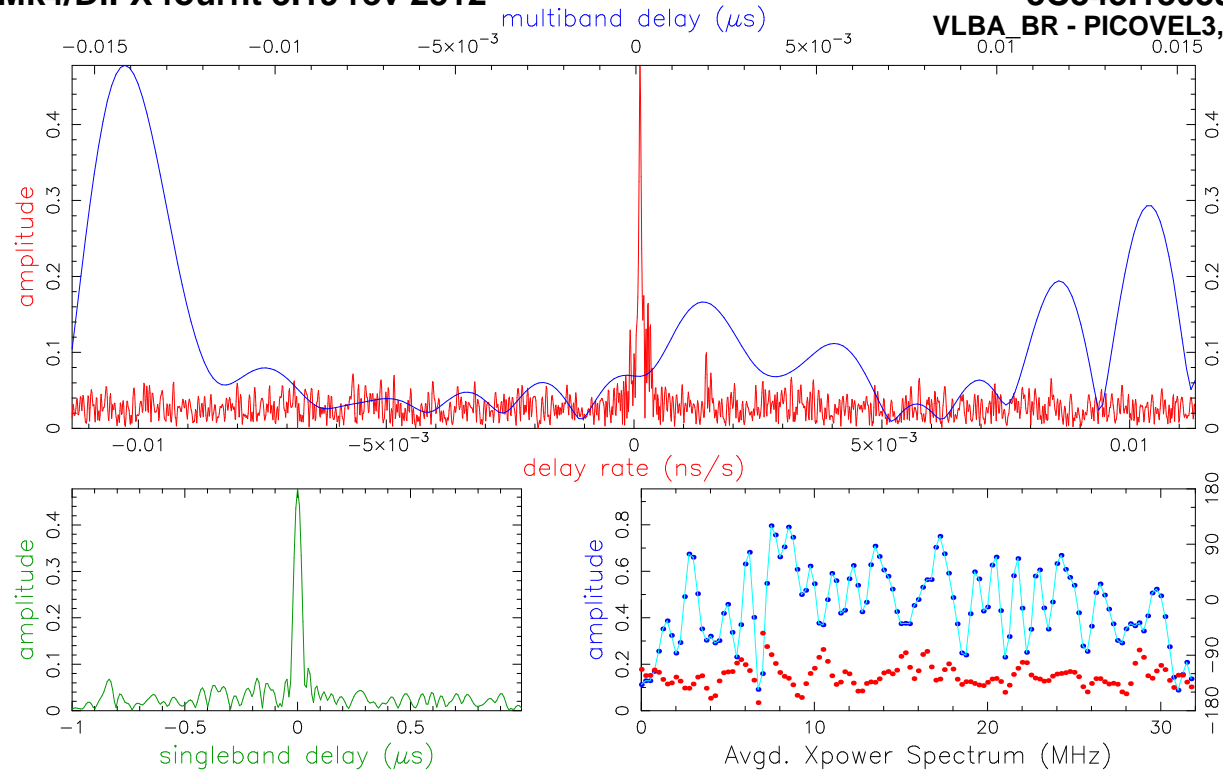
RMS Theor. Amplitude 8.366 +/- 0.021
Search (2048X64) 8.081
Interp. 0.000
Inc. seg. avg. 9.771
Inc. frq. avg. 13.417

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): 64
Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite

sb window (us) -1.000 1.000
mb window (us) -0.016 0.016
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

B: az 269.2 el 56.7 pa 55.8 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -58.141 2324.892 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/Bi..1305JH Output file: /Exps/c192a/v2/1234/No0001/Bi.W.26.1305JH

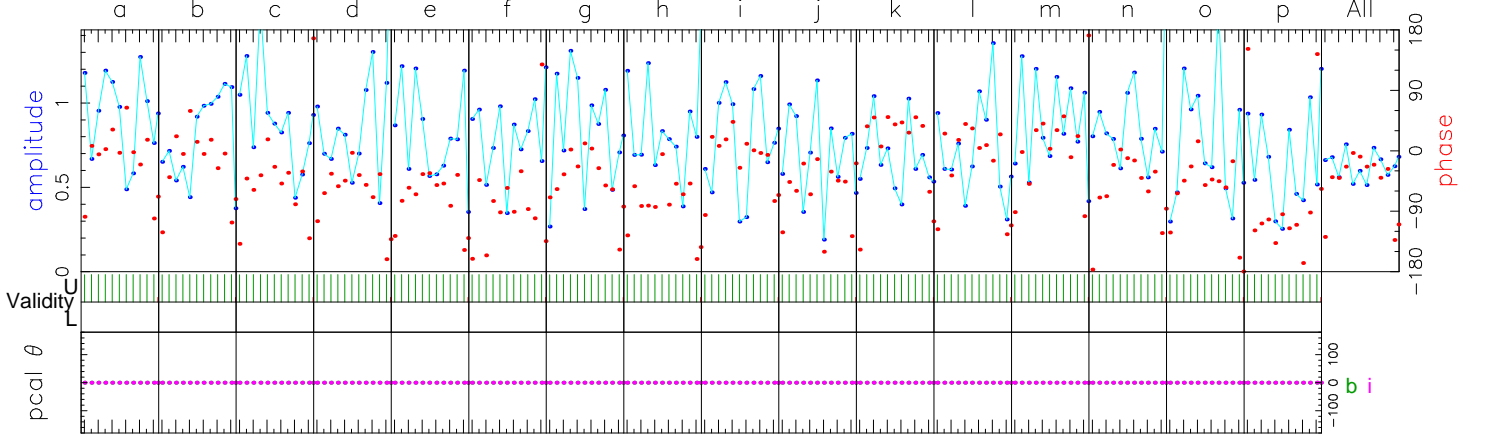


Fringe quality 7

SNR 23.2
Int time 314.116
Amp 0.478
Phase -40.3
PFD 0.0e+00
Delays (us)
SBD 0.000229
MBD -0.014161
Fringe rate (Hz) 0.010044
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042731
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec

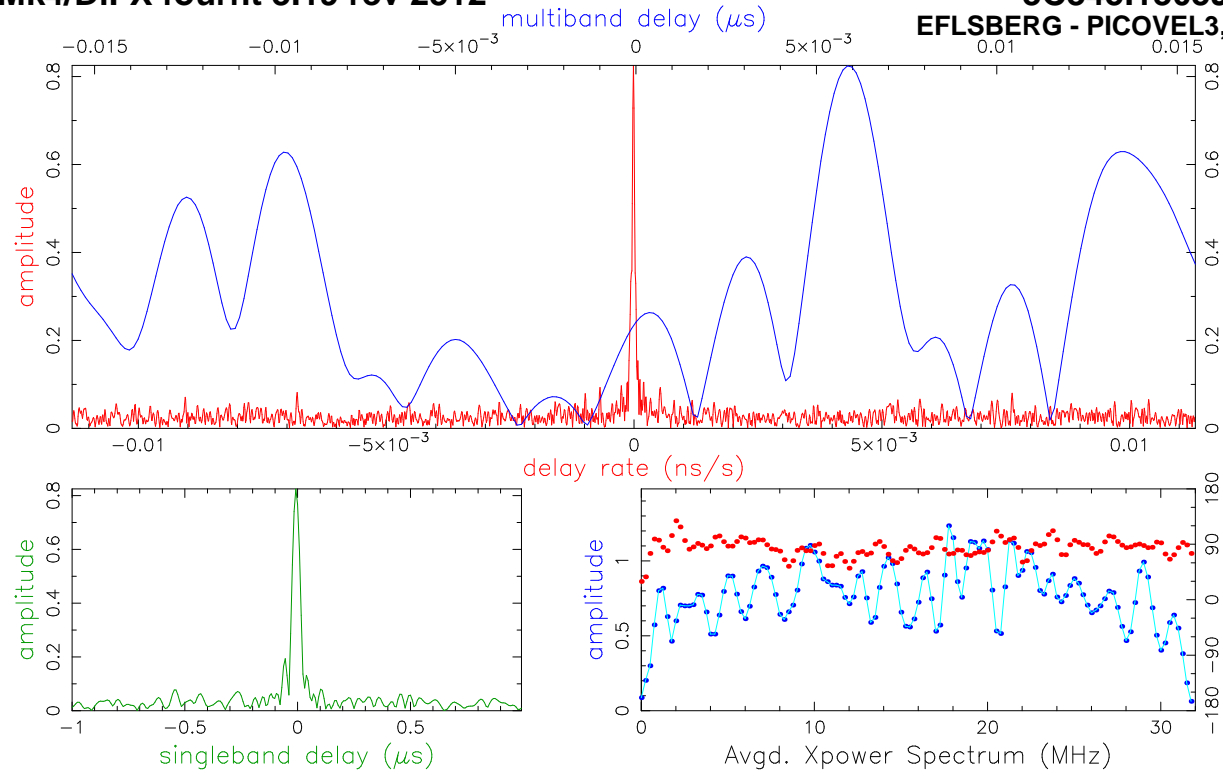


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-9.2	-15.5	-49.2	-65.1	-71.6	-93.2	-33.4	-78.9	-3.0	-54.5	31.9	-4.1	3.0	-46.1	-45.8	-125.5	Phase	-40.3
	0.7	0.6	0.7	0.6	0.7	0.5	0.7	0.6	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.5	Ampl.	0.6
	128.7	128.6	129.1	129.0	128.4	129.1	128.9	129.0	129.0	129.1	128.2	129.4	128.7	128.4	128.9	127.7	Sbd box	129.0
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	

Group delay (usec)(sbd) -6.72411496793E+03 Apriori delay (usec) -6.72410080713E+03 Resid mbdelay (usec) -1.41608E-02 +/- 4.7E-05
 Sband delay (usec) -6.72410057813E+03 Apriori clock (usec) -1.2372863E-01 Resid sbdelay (usec) 2.29000E-04 +/- 7.4E-04
 Phase delay (usec) -6.72410080843E+03 Apriori clockrate (us/s) 1.1060491E-07 Resid phdelay (usec) -1.30068E-06 +/- 1.6E-07
 Delay rate (us/s) 1.34872448745E+00 Apriori rate (us/s) 1.34872437085E+00 Resid rate (us/s) 1.16601E-07 +/- 8.8E-10
 Total phase (deg) -229.8 Apriori accel (us/s/s) 4.59892593383E-05 Resid phase (deg) -40.3 +/- 4.9

RMS Theor. Amplitude 0.478 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 42.9 8.6 Search (2048X64) 0.466 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 35.1 15.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 42.2 9.9 Inc. seg. avg. 0.620 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 27.9 17.3 Inc. frq. avg. 0.585 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

b: az 66.1 el 33.9 pa -52.6 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -9968.663 4094.485 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/bi..1305JH Output file: /Exps/c192a/v2/1234/No0001/bi.W.35.1305JH

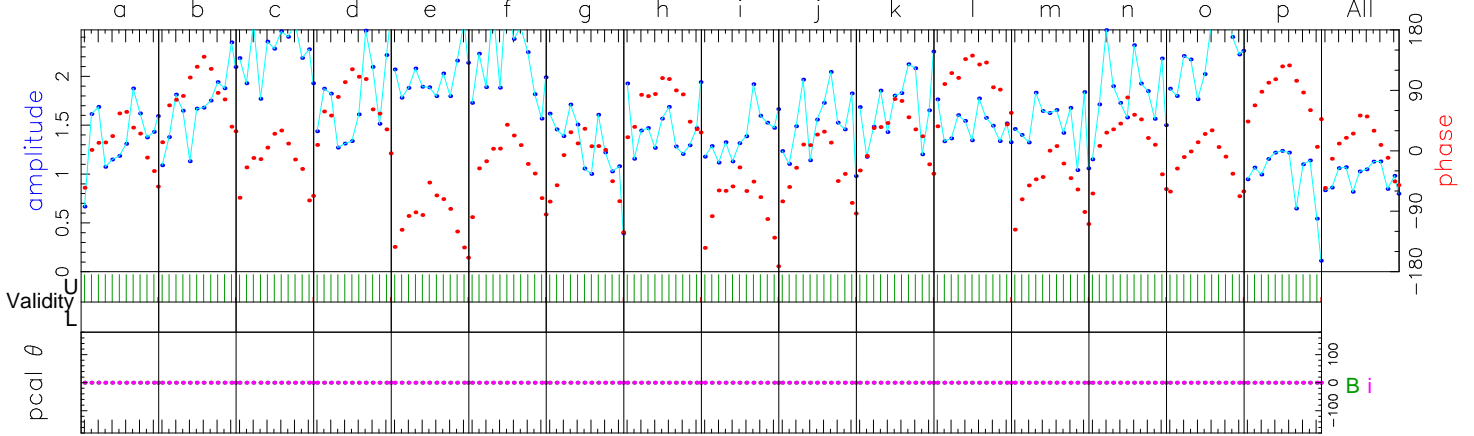


Fringe quality 2

SNR 40.0
Int time 314.116
Amp 0.826
Phase 9.1
PFD 0.0e+00
Delays (us)
SBD -0.007092
MBD 0.005900
Fringe rate (Hz)
-0.000690
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042734
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

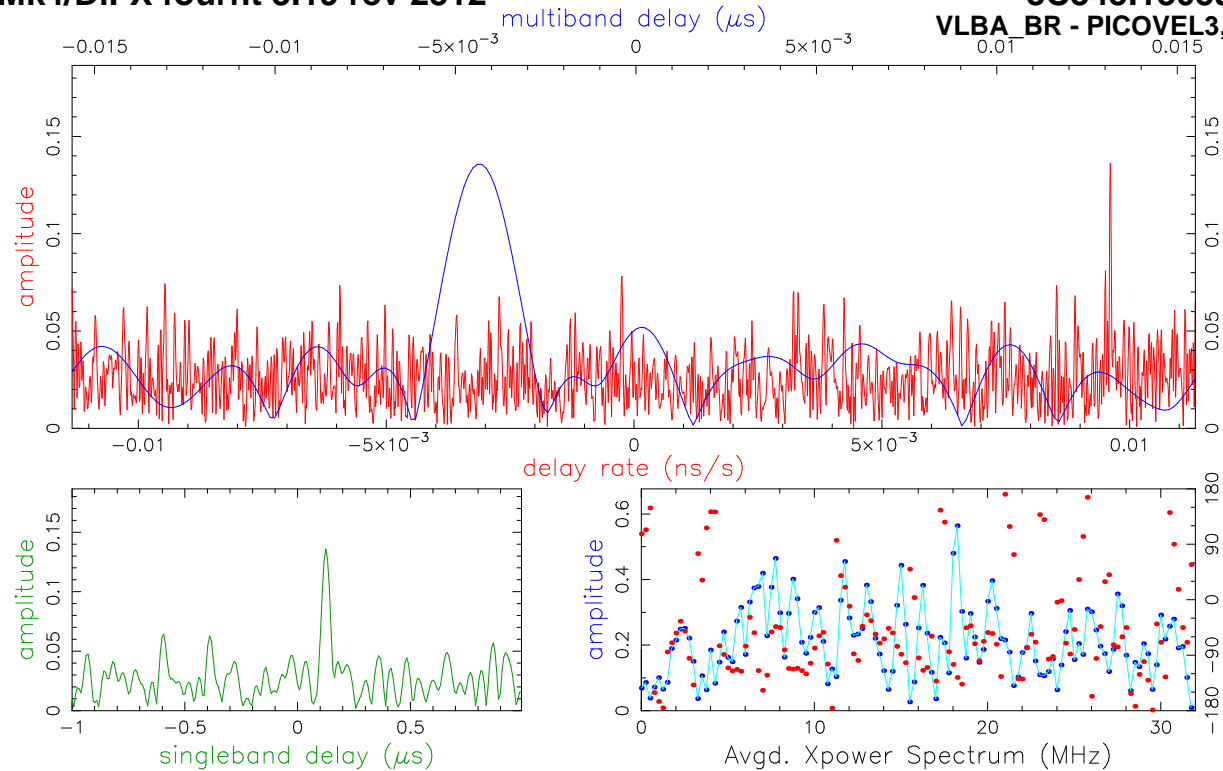
Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
U/L	13.8	84.3	-13.2	69.4	-101.0	-10.1	-13.3	69.3	-75.8	-17.9	30.0	102.7	-46.7	23.2	-11.3	89.3	Phase	9.1				
B	1.2	1.4	1.9	1.4	1.7	1.7	1.0	1.2	1.1	1.2	1.4	1.2	1.3	1.5	1.9	0.9	Ampl.	1.4				
B:i	129.1	128.7	128.7	128.7	128.7	128.7	128.5	129.1	128.4	129.1	128.5	128.6	128.8	128.8	128.3	128.3	Sbd box	128.1				
B:i	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	PC amp					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids					
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks					
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids					
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks					
B	Group delay (usec)(sbd)		-1.05989516617E+03				Apriori delay (usec)				-1.05990106636E+03				Resid mbdelay (usec)				5.90019E-03		+/- 2.7E-05	
B	Sband delay (usec)		-1.05990815836E+03				Apriori clock (usec)				1.7328032E+01				Resid sbdelay (usec)				-7.09200E-03		+/- 4.3E-04	
B	Phase delay (usec)		-1.05990106607E+03				Apriori clockrate (us/s)				1.5299999E-07				Resid phdelay (usec)				2.93557E-07		+/- 9.2E-08	
B	Delay rate (us/s)		1.22893311435E-02				Apriori rate (us/s)				1.22893391516E-02				Resid rate (us/s)				-8.00812E-09		+/- 5.1E-10	
B	Total phase (deg)		-299.1				Apriori accel (us/s/s)				1.79330549472E-05				Resid phase (deg)				9.1		+/- 2.9	
B	RMS		Theor.		Amplitude		0.826 +/- 0.021		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					
B	ph/seg (deg)		34.1 5.0		Search (2048X64)		0.816		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)		-0.016 0.016							
B	amp/seg (%)		23.4 8.7		Interp.		0.000		Sample rate(MSamp/s): 64		dr window (ns/s)		-0.011 0.011									
B	ph/frq (deg)		61.9 5.7		Inc. seg. avg.		0.976		Data rate(Mb/s): 2048		nlags: 128		t_cohere infinite		ion window (TEC)		0.00 0.00					
B	amp/frq (%)		77.2 10.0		Inc. frq. avg.		1.382															

Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, bi
VLBA_BR - PICOVEL3, fgroup W, pol LR

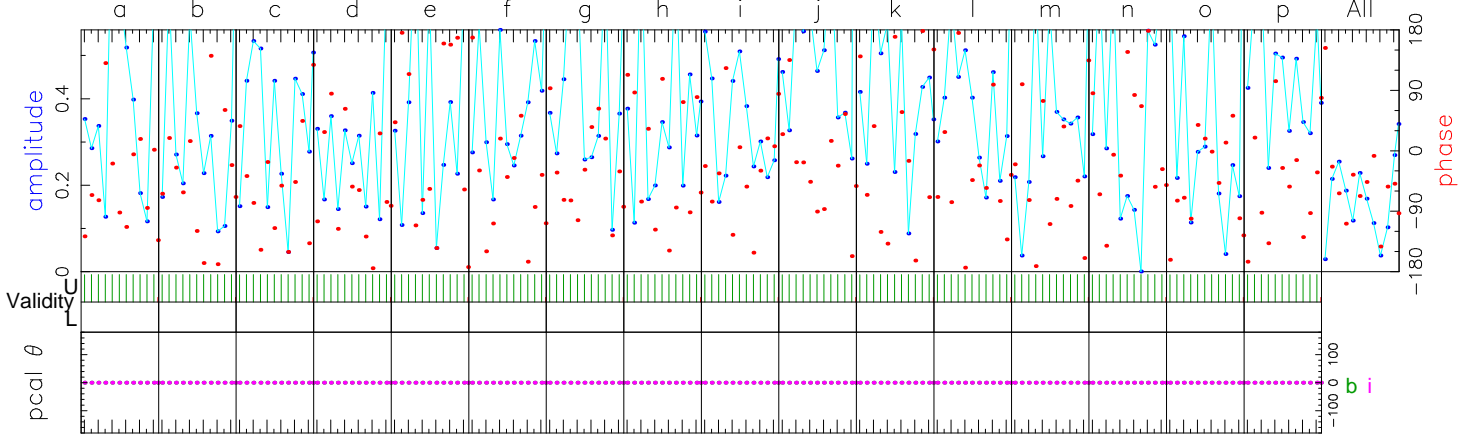


Fringe quality 0

SNR 6.6
Int time 314.116
Amp 0.186
Phase -56.1
PFD 1.3e-02
Delays (us)
SBD 0.125318
MBD -0.004333
Fringe rate (Hz) 0.828913
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

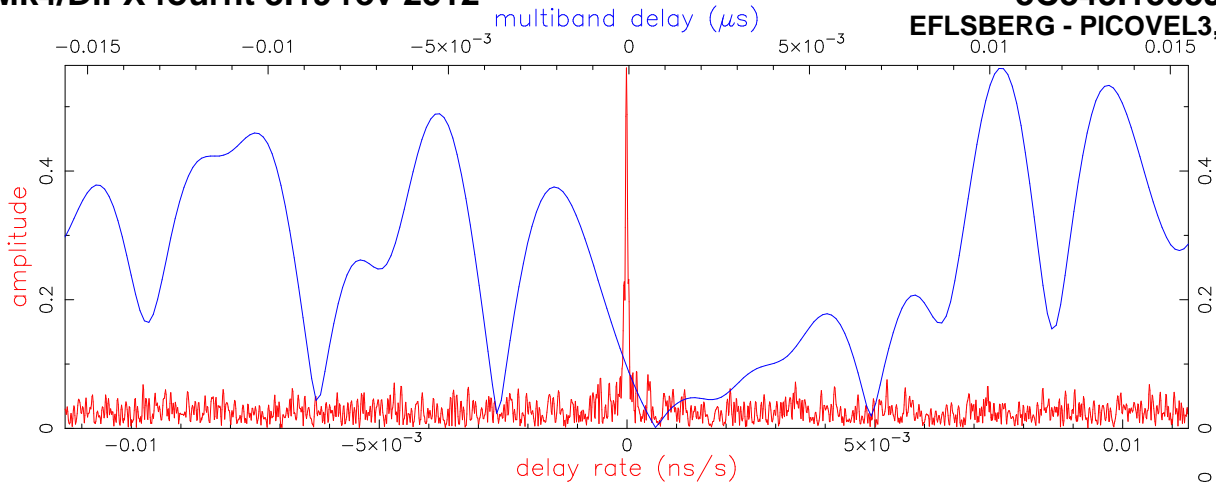
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build 2020:083:003228
2020:093:042736
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



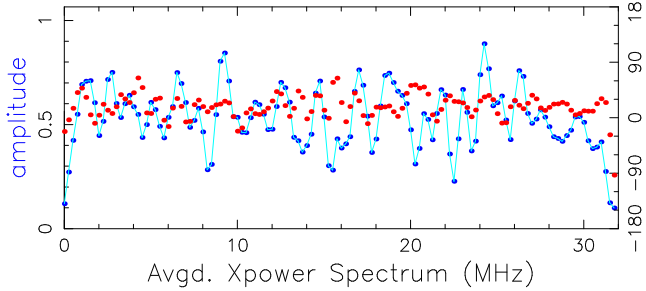
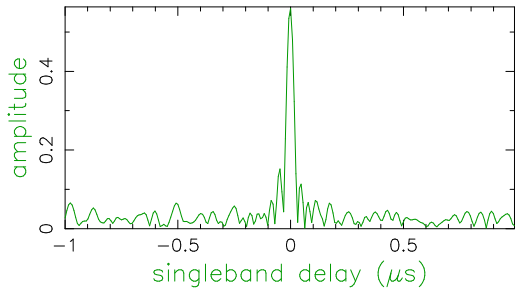
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
	-54.3	-18.5	-72.7	-75.4	-116.0	-50.4	-36.6	-92.1	-37.5	-24.0	-157.6	-82.7	-95.2	-45.8	-48.1	-52.8	Phase	-56.1				
	0.4	0.2	0.2	0.1	0.2	0.2	0.3	0.1	0.3	0.4	0.1	0.2	0.2	0.2	0.2	0.3	Ampl.	0.2				
	15.0	245.8	238.1	155.2	32.8	30.7	234.1	52.2	146.7	145.5	9.2	19.9	19.0	119.2	65.6	208.9	Sbd box	145.0				
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used					
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
b:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
b:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	PC amp					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids					
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks					
																	Chan ids					
																	Tracks					
Group delay (usec)(sbd)			-6.72398014013E+03														Apriori delay (usec)	-6.72410080713E+03	Resid mbdelay (usec)	-4.33300E-03	+/-	1.6E-04
Sband delay (usec)			-6.72397548913E+03														Apriori clock (usec)	-1.2372863E-01	Resid sbdelay (usec)	1.25318E-01	+/-	2.6E-03
Phase delay (usec)			-6.72410080894E+03														Apriori clockrate (us/s)	1.1060491E-07	Resid phdelay (usec)	-1.81001E-06	+/-	5.6E-07
Delay rate (us/s)			1.34873399371E+00														Apriori rate (us/s)	1.34872437085E+00	Resid rate (us/s)	9.62286E-06	+/-	3.1E-09
Total phase (deg)					-245.6												Apriori accel (us/s/s)	4.59892593383E-05	Resid phase (deg)	-56.1	+/-	17.4

ph/seg (deg) 57.7 30.1 Search (2048X64) 0.134 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 62.5 52.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 39.1 34.8 Inc. seg. avg. 0.192 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
amp/frq (%) 45.9 60.7 Inc. frq. avg. 0.181 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
b: az 66.1 el 33.9 pa -52.6 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -9968.663 4094.485 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/bi..1305JH Output file: /Exps/c192a/v2/1234/No0001/bi.W.52.1305JH



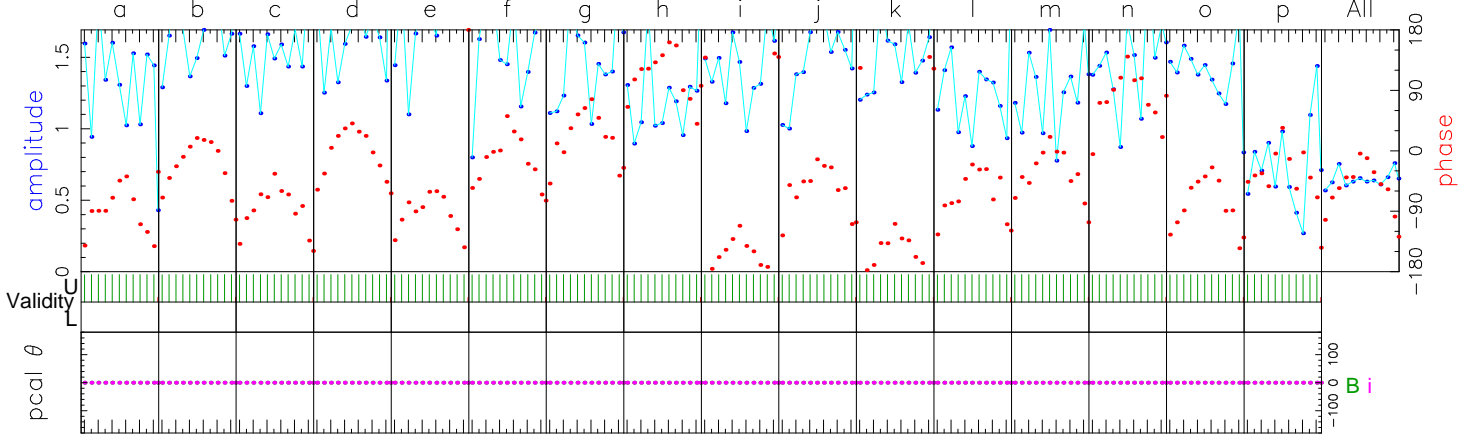
Fringe quality 6

SNR 27.3
Int time 314.116
Amp 0.564
Phase -51.7
PFD 0.0e+00
Delays (us)
SBD -0.002074
MBD 0.010307
Fringe rate (Hz)
-0.000711
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042738
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

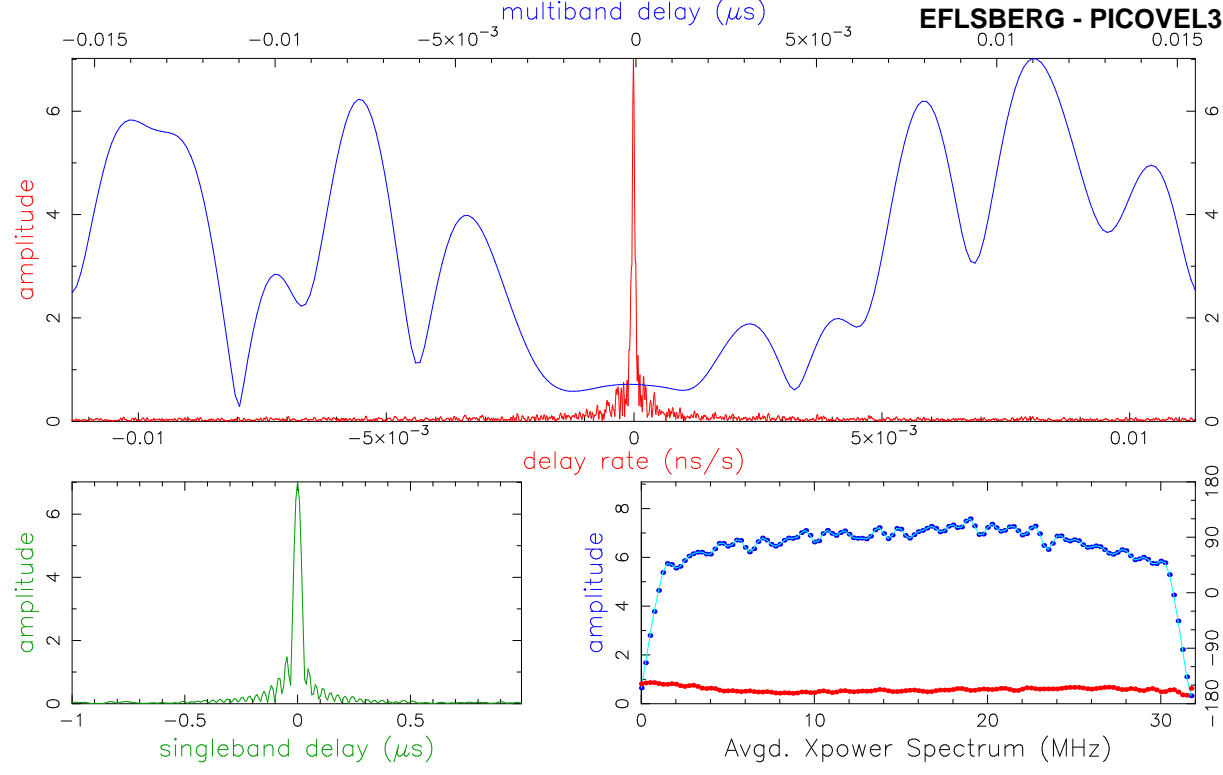
Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
	-92.7	-16.7	-87.6	-0.7	-94.6	-11.3	21.5	110.8	-164.8	-51.9	-158.3	-63.5	-31.8	75.7	-79.3	-34.6		Phase	-51.7
	1.2	1.4	1.3	1.4	1.6	1.3	1.2	1.0	1.2	1.3	1.2	1.0	1.1	1.2	1.1	0.6		Ampl.	1.2
	129.4	129.4	129.3	129.3	129.1	129.7	129.3	129.5	129.2	128.9	129.8	129.3	129.2	129.3	129.2	129.6		Sbd box	128.7
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0		APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC phase	
B:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000		PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids	
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks	
																		Chan ids	
																		Tracks	
Group delay (usec)(sbd)	-1.05989075889E+03			Apriori delay (usec)			-1.05990106636E+03			Resid mbdelay (usec)			1.03075E-02			+/-	3.9E-05		
Sband delay (usec)	-1.05990313986E+03			Apriori clock (usec)			1.7328032E+01			Resid sbdelay (usec)			-2.07350E-03			+/-	6.3E-04		
Phase delay (usec)	-1.05990106803E+03			Apriori clockrate (us/s)			1.5299999E-07			Resid phdelay (usec)			-1.66601E-06			+/-	1.4E-07		
Delay rate (us/s)	1.22893308969E-02			Apriori rate (us/s)			1.22893391516E-02			Resid rate (us/s)			-8.25470E-09			+/-	7.4E-10		
Total phase (deg)	-359.9			Apriori accel (us/s/s)			1.79330549472E-05			Resid phase (deg)			-51.7			+/-	4.2		

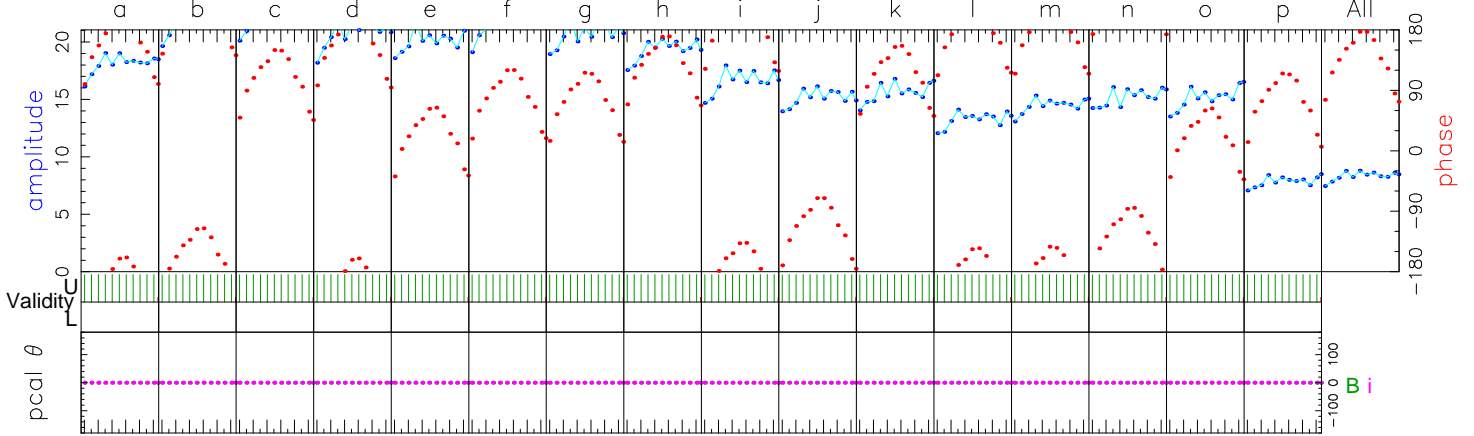
ph/seg (deg) RMS Theor. Amplitude 0.564 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 30.9 7.3 Search (2048X64) 0.554 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 18.0 12.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 77.5 8.4 Inc. seg. avg. 0.644 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 117.0 14.6 Inc. frq. avg. 1.179 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 269.2 el 56.7 pa 55.8 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -58.141 2324.892 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/Bi..1305JH Output file: /Exps/c192a/v2/1234/No0001/Bi.W.61.1305JH



Fringe quality 3
 SNR 340.2
 Int time 314.116
 Amp 7.020
 Phase 137.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.000215
 MBD 0.011026
 Fringe rate (Hz)
 -0.000757
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183145.47
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:083:003228
 2020:093:042726
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
	161.1	-154.5	110.4	159.2	24.3	80.5	76.0	130.4	-175.5	-110.4	116.5	175.6	177.5	-124.3	21.6	76.1	Phase	137.9				
	15.3	18.6	18.7	17.4	17.0	18.2	17.4	16.3	14.0	12.8	13.1	11.2	12.2	12.8	12.7	6.6	Ampl.	14.6				
	129.0	129.0	129.0	128.9	129.0	129.1	129.0	129.0	129.0	129.0	129.0	129.1	129.0	129.0	129.0	129.0	Sbd box	129.0				
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used					
B	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
B:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
B:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	PC amp					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids					
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks					
																	Chan ids					
																	Tracks					
Group delay (usec)(sbd)			-1.05989004083E+03														Apriori delay (usec)	-1.05990106636E+03	Resid mbdelay (usec)	1.10255E-02	+/-	3.2E-06
Sband delay (usec)			-1.05990128086E+03														Apriori clock (usec)	1.7328032E+01	Resid sbdelay (usec)	-2.14500E-04	+/-	5.1E-05
Phase delay (usec)			-1.05990106191E+03														Apriori clockrate (us/s)	1.5299999E-07	Resid phdelay (usec)	4.44531E-04	+/-	1.1E-08
Delay rate (us/s)			1.22893303655E-02														Apriori rate (us/s)	1.22893391516E-02	Resid rate (us/s)	-8.78611E-09	+/-	6.0E-11
Total phase (deg)																	Apriori accel (us/s/s)	1.79330549472E-05	Resid phase (deg)	137.9	+/-	0.3

ph/seg (deg) 33.4 0.6
 amp/seg (%) 19.5 1.0
 ph/frq (deg) 71.4 0.7
 amp/frq (%) 117.8 1.2

RMS Theor. Amplitude 7.020 +/- 0.021
 Search (2048X64) 6.902
 Interp. 0.000
 Inc. seg. avg. 8.331
 Inc. frq. avg. 14.637

Group delay (usec)(sbd) -1.05989004083E+03
 Sband delay (usec) -1.05990128086E+03
 Phase delay (usec) -1.05990106191E+03
 Delay rate (us/s) 1.22893303655E-02
 Total phase (deg) -170.4

Apriori delay (usec) -1.05990106636E+03
 Apriori clock (usec) 1.7328032E+01
 Apriori clockrate (us/s) 1.5299999E-07
 Apriori rate (us/s) 1.22893391516E-02
 Apriori accel (us/s/s) 1.79330549472E-05

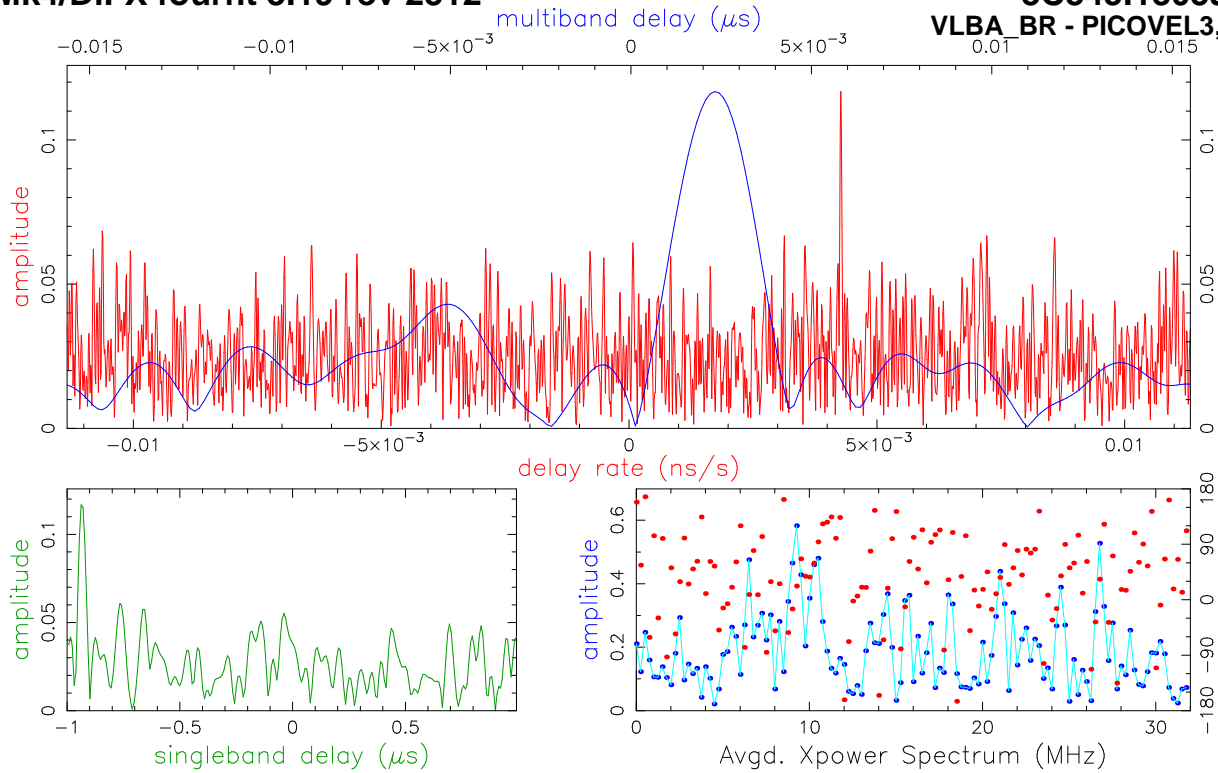
Resid mbdelay (usec) 1.10255E-02 +/- 3.2E-06
 Resid sbdelay (usec) -2.14500E-04 +/- 5.1E-05
 Resid phdelay (usec) 4.44531E-04 +/- 1.1E-08
 Resid rate (us/s) -8.78611E-09 +/- 6.0E-11
 Resid phase (deg) 137.9 +/- 0.3

PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 PCal rate: 0.000E+00, 0.000E+00 (us/s)
 Bits/sample: 2x2 SampCntNorm: enabled
 Sample rate(MSamp/s): 64
 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite

sb window (us) -1.000 1.000
 mb window (us) -0.016 0.016
 dr window (ns/s) -0.011 0.011
 ion window (TEC) 0.00 0.00

B: az 269.2 el 56.7 pa 55.8 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -58.141 2324.892 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/Bi..1305JH Output file: /Exps/c192a/v2/1234/No0001/Bi.W.7.1305JH

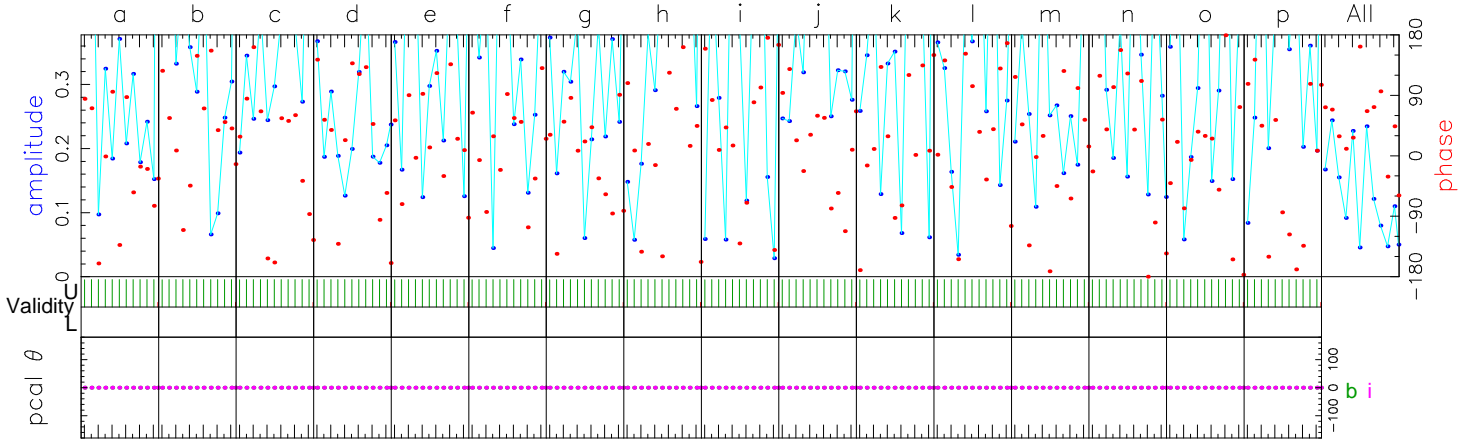


Fringe quality 0

SNR 5.7
Int time 314.116
Amp 0.126
Phase 53.7
PFD 9.0e-01
Delays (us)
SBD -0.934234
MBD 0.002319
Fringe rate (Hz)
0.368900
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

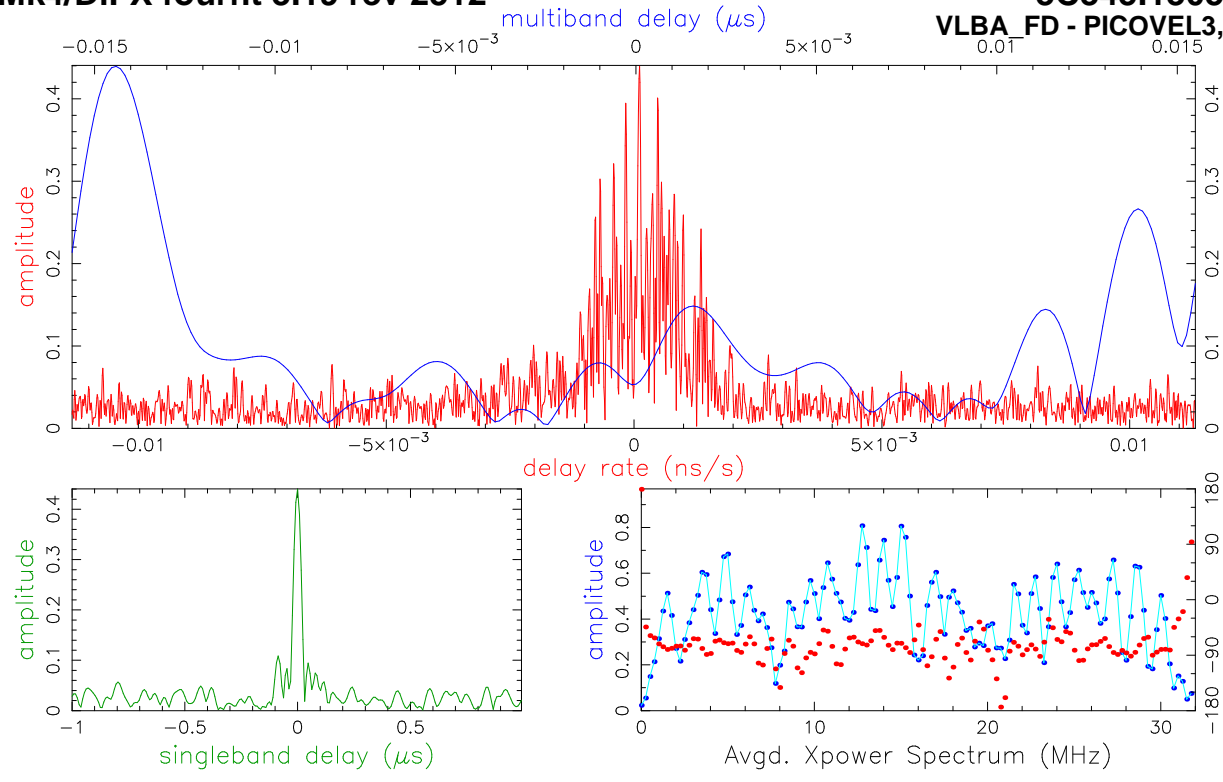
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042741
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
28.1	63.5	54.0	112.3	53.2	29.0	9.6	96.1	73.6	29.5	56.7	65.9	40.5	83.4	25.2	144.7	144.7	Phase	53.7
0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.0	Ampl.	0.1
4.1	241.6	131.3	64.9	73.4	26.2	105.3	209.7	46.5	138.5	92.4	247.8	216.1	19.1	95.1	177.5	177.5	Sbd box	9.4
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
b:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	
																	Chan ids	
																	Tracks	
Group delay (usec)(sbd)	-6.72503598794E+03			Apriori delay (usec)			-6.72410080713E+03			Resid mbdelay (usec)			2.31920E-03			+/- 1.9E-04		
Sband delay (usec)	-6.72503504113E+03			Apriori clock (usec)			-1.2372863E-01			Resid sbdelay (usec)			-9.34234E-01			+/- 3.0E-03		
Phase delay (usec)	-6.72410080540E+03			Apriori clockrate (us/s)			1.1060491E-07			Resid phdelay (usec)			1.73085E-06			+/- 6.4E-07		
Delay rate (us/s)	1.34872865341E+00			Apriori rate (us/s)			1.34872437085E+00			Resid rate (us/s)			4.28257E-06			+/- 3.5E-09		
Total phase (deg)	-135.8			Apriori accel (us/s/s)			4.59892593383E-05			Resid phase (deg)			53.7			+/- 19.9		

ph/seg (deg) 49.4 34.5 Search (2048X64) 0.115 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 61.0 60.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 37.7 39.9 Inc. seg. avg. 0.123 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 37.7 69.6 Inc. frq. avg. 0.113 Sample rate(MSamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 66.1 el 33.9 pa -52.6 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -9968.663 4094.485 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/bi..1305JH Output file: /Exps/c192a/v2/1234/No0001/bi.W.72.1305JH

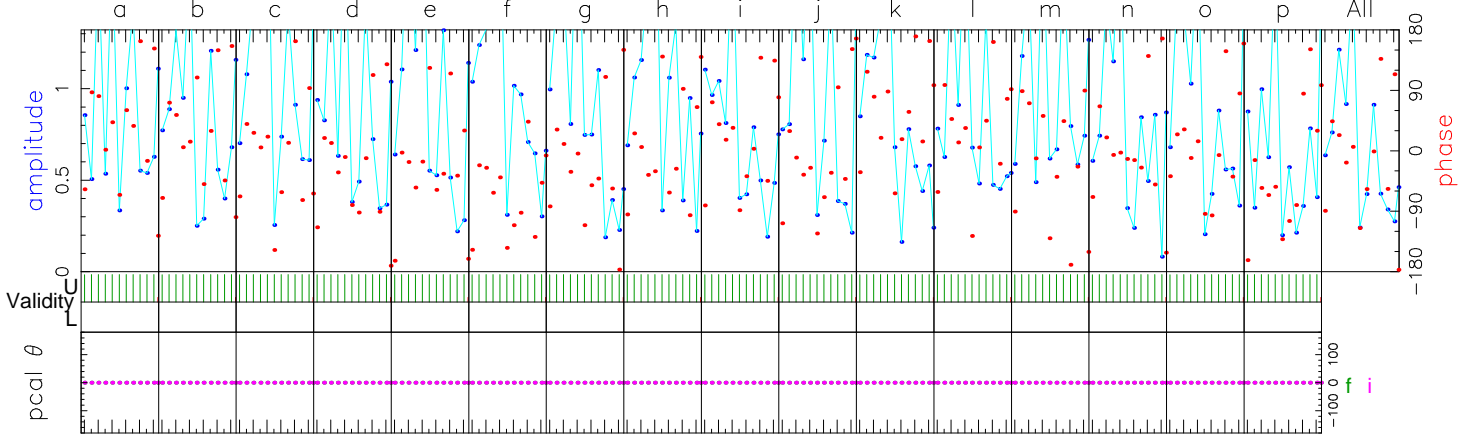


Fringe quality 6

SNR 21.3
Int time 314.018
Amp 0.441
Phase -0.8
PFD 0.0e+00
Delays (us)
SBD -0.001268
MBD -0.014431
Fringe rate (Hz) 0.009246
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build 2020:083:003228
2020:093:042752
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All					
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used	128.8				
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1000				
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	1000				
fi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	1000				
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1000				
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	1000				
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	W15UR	Tracks	1000				
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	W15UR	Chan ids	1000				
																		Tracks	1000				
Group delay (usec)(sbd)			-5.69726794739E+03															Apriori delay (usec)	-5.69725351591E+03	Resid mbdelay (usec)	-1.44315E-02	+/-	5.1E-05
Sband delay (usec)			-5.69725478441E+03															Apriori clock (usec)	9.4374943E-01	Resid sbdelay (usec)	-1.26850E-03	+/-	8.1E-04
Phase delay (usec)			-5.69725351593E+03															Apriori clockrate (us/s)	2.6205050E-07	Resid phdelay (usec)	-2.42583E-08	+/-	1.7E-07
Delay rate (us/s)			1.48892330115E+00															Apriori rate (us/s)	1.48892319381E+00	Resid rate (us/s)	1.07341E-07	+/-	9.5E-10
Total phase (deg)																		Apriori accel (us/s/s)	2.35697441985E-05	Resid phase (deg)	-0.8	+/-	5.4

ph/seg (deg) 77.6 9.3
amp/seg (%) 111.6 16.2
ph/frq (deg) 42.3 10.7
amp/frq (%) 35.1 18.7

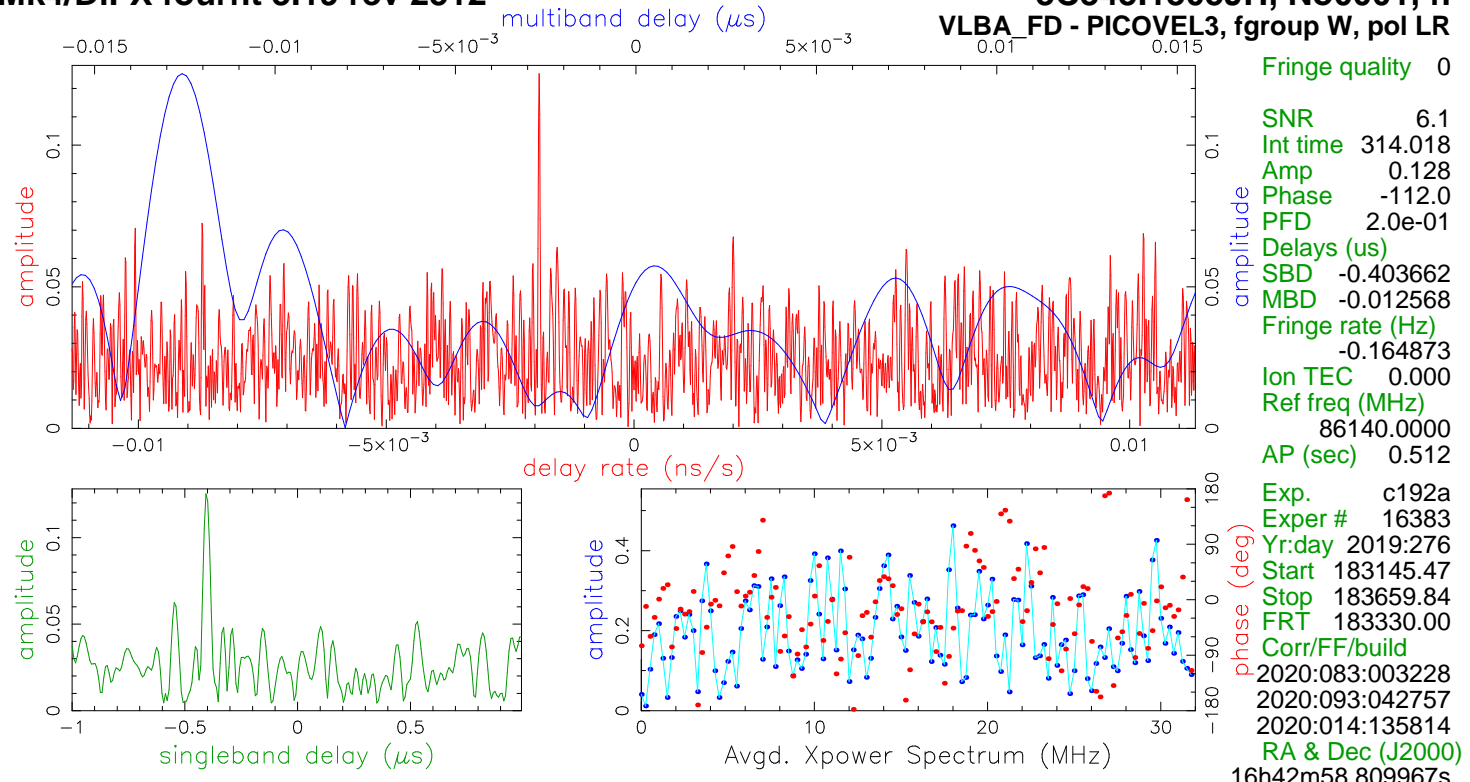
f: az 61.0 el 37.1 pa -78.2
i: az 286.6 el 62.3 pa 84.7
u,v (fr/asec) -11055.496 1041.055

Control file: cf_1234_gmva
Input file: /Exps/c192a/v2/1234/No0001/fi..1305JH
Output file: /Exps/c192a/v2/1234/No0001/fi.W.106.1305JH

simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, fi
VLBA_FD - PICOVEL3, fgroup W, pol LR



Fringe quality 0

SNR 6.1

Int time 314.018

Amp 0.128

Phase -112.0

PFD 2.0e-01

Delays (us)

SBD -0.403662

MBD -0.012568

Fringe rate (Hz)

-0.164873

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c192a

Exper # 16383

Yr:day 2019:276

Start 183145.47

Stop 183659.84

FRT 183330.00

Corr/FF/build

2020:083:003228

2020:093:042757

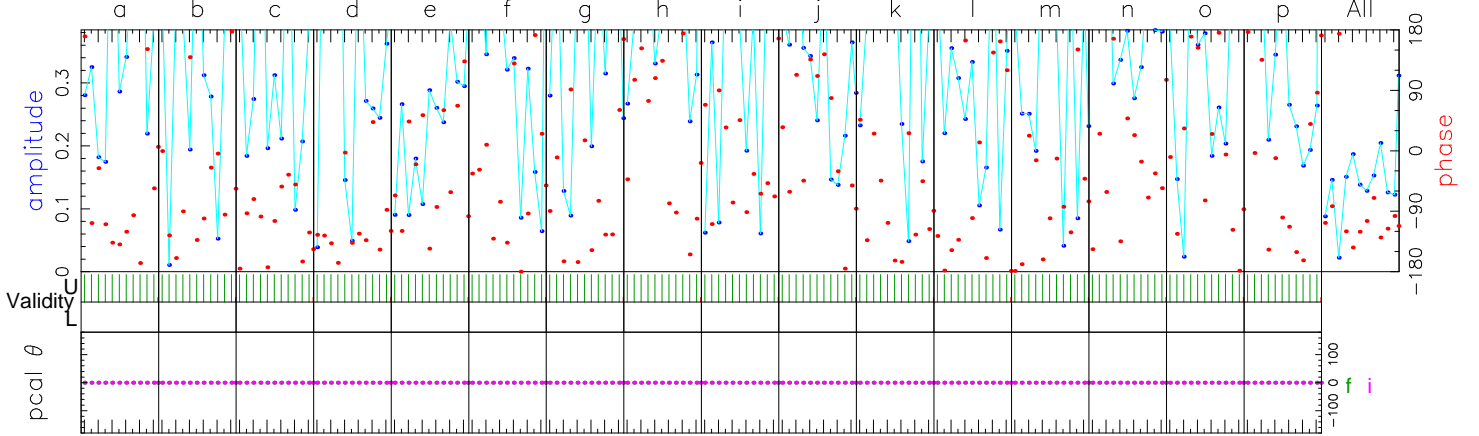
2020:014:135814

RA & Dec (J2000)

16h42m58.809967s

+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
	-127.9	-110.6	-103.8	-133.2	-60.2	-76.5	-81.8	174.6	-48.5	95.9	-107.0	-169.1	-107.8	-59.2	-141.3	-153.6	Phase	-112.0				
	0.3	0.2	0.3	0.3	0.0	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.1	0.1	Ampl.	0.1				
	77.3	102.4	6.0	236.9	86.6	55.1	158.7	142.6	182.8	167.1	197.3	21.1	225.8	4.3	88.1	157.1	Sbd box	77.3				
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
fi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
fi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC					
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids					
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks					
																	Chan ids					
																	Tracks					
Group delay (usec)(sbd)			-5.69767233425E+03														Apriori delay (usec)	-5.69725351591E+03	Resid mbdelay (usec)	-1.25683E-02	+/-	1.8E-04
Sband delay (usec)			-5.69765717791E+03														Apriori clock (usec)	9.4374943E-01	Resid sbdelay (usec)	-4.03662E-01	+/-	2.8E-03
Phase delay (usec)			-5.69725351952E+03														Apriori clockrate (us/s)	2.6205050E-07	Resid phdelay (usec)	-3.61034E-06	+/-	6.0E-07
Delay rate (us/s)			1.48892127980E+00														Apriori rate (us/s)	1.48892319381E+00	Resid rate (us/s)	-1.91401E-06	+/-	3.3E-09
Total phase (deg)																	Apriori accel (us/s/s)	2.35697441985E-05	Resid phase (deg)	-112.0	+/-	18.7

ph/seg (deg) RMS Theor. Amplitude 0.128 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 29.7 32.3 Search (2048X64) 0.123 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

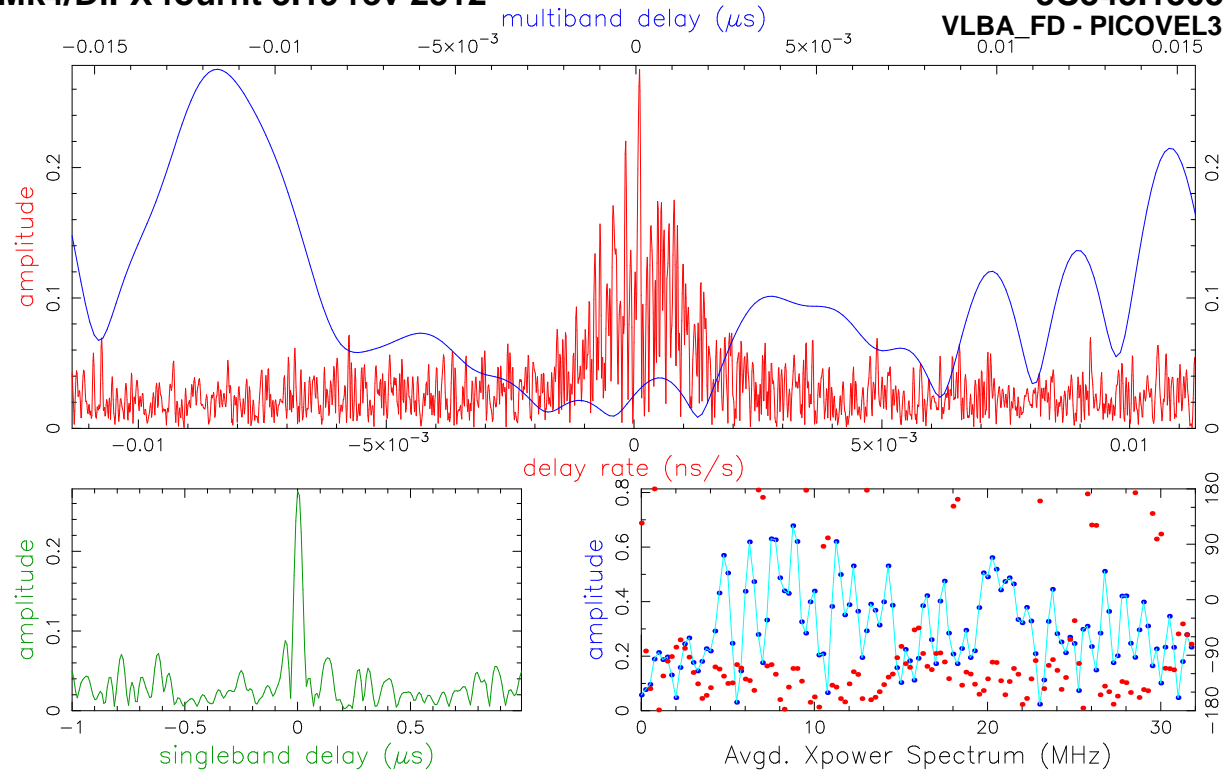
ph/frq (deg) 40.6 56.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 57.9 37.3 Inc. seg. avg. 0.119 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011

amp/frq (%) 64.1 65.2 Inc. frq. avg. 0.136 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

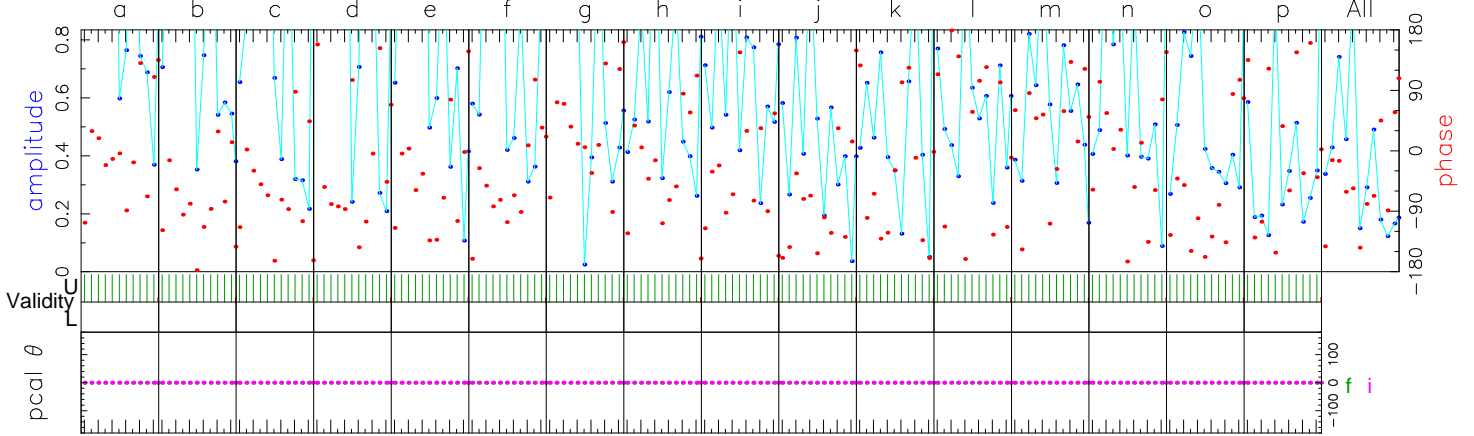
f: az 61.0 el 37.1 pa -78.2 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -11055.496 1041.055 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fi..1305JH Output file: /Exps/c192a/v2/1234/No0001/fi.W.127.1305JH



Fringe quality 9
SNR 13.5
Int time 314.018
Amp 0.278
Phase -50.1
PFD 1.1e-32
Delays (us)
SBD 0.002903
MBD -0.011569
Fringe rate (Hz) 0.009534
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build 2020:083:003228
2020:093:042748
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec

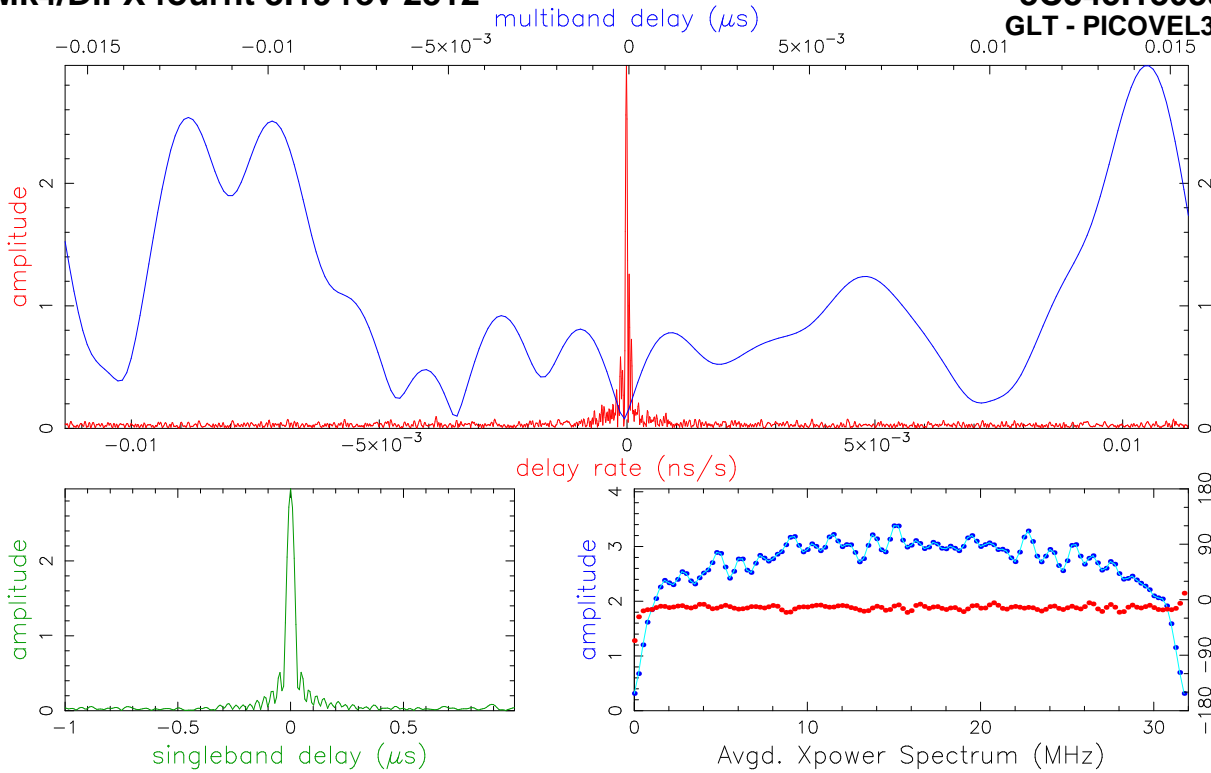


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
fj	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
fi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000		
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		
Group delay (usec)(sbd)			-5.69726508474E+03															
Sband delay (usec)			-5.69725061291E+03															
Phase delay (usec)			-5.69725351752E+03															
Delay rate (us/s)			1.48892330449E+00															
Total phase (deg)																		
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) 65.1 14.7 Theor. Amplitude 0.278 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 99.8 25.7 Search (2048X64) 0.275 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 72.9 17.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 89.6 29.7 Inc. seg. avg. 0.379 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 f: az 61.0 el 37.1 pa -78.2 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -11055.496 1041.055 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/fi..1305JH Output file: /Exps/c192a/v2/1234/No0001/fi.W.91.1305JH simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, gi
GLT - PICOVEL3, fgroup W, pol LL

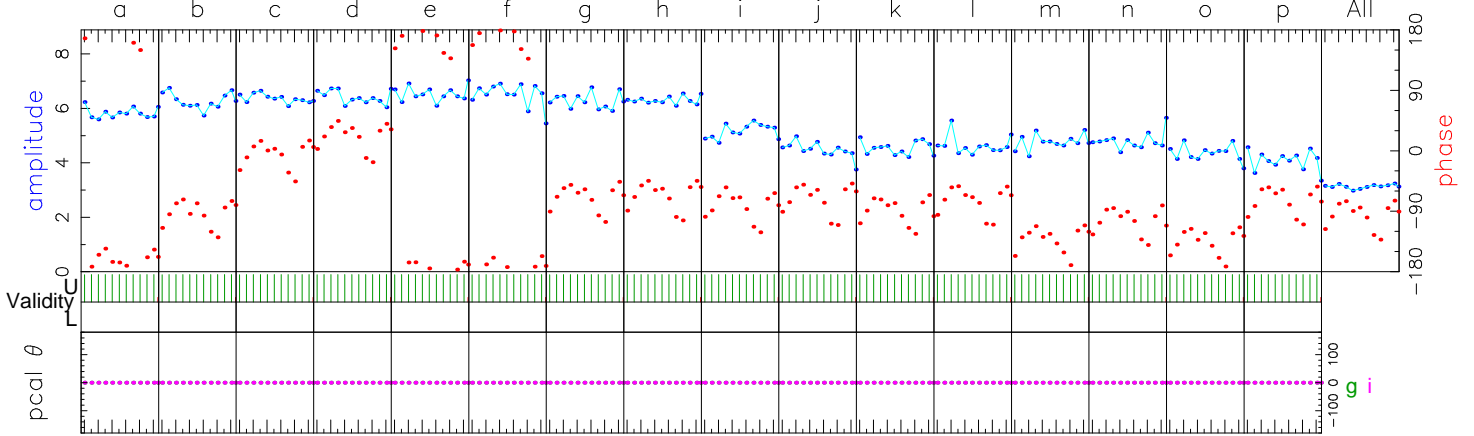


Fringe quality 4

SNR 143.5
Int time 313.982
Amp 2.962
Phase -95.8
PFD 0.0e+00
Delays (us)
SBD -0.000067
MBD 0.014353
Fringe rate (Hz)
-0.000776
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042752
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec

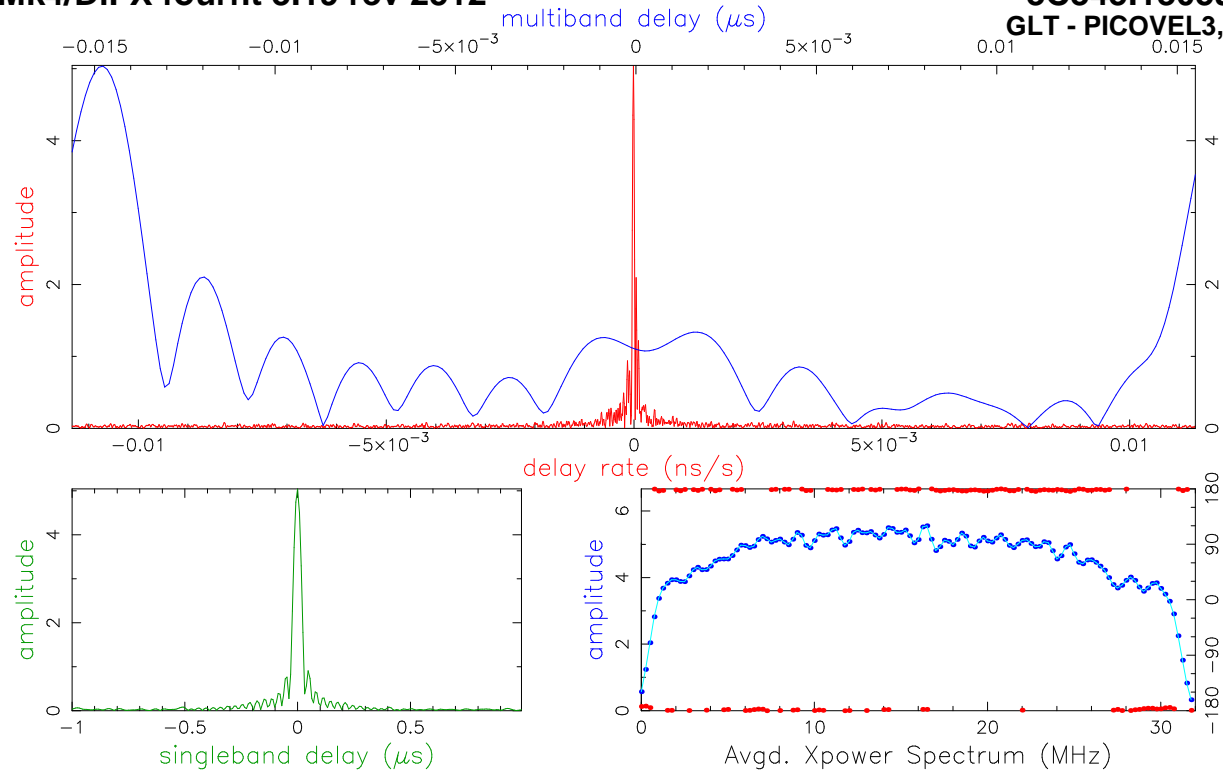


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
	-171.0	-93.7	-6.3	21.3	173.9	177.8	-69.0	-66.9	-82.0	-71.8	-88.7	-74.1	-131.9	-104.3	-135.7	-74.5	Phase	-95.8				
	5.5	6.0	6.0	6.0	6.1	6.2	6.0	5.9	4.9	4.2	4.3	4.4	4.5	4.5	4.2	3.9	Ampl.	5.2				
	130.0	129.4	129.3	129.0	128.8	128.9	128.8	128.9	128.9	128.5	129.0	129.0	129.0	129.1	129.6	129.3	Sbd box	129.0				
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used					
g	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC freqs					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
g:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
g:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	PC amp					
g	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000						
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids					
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks					
																	Chan ids					
																	Tracks					
Group delay (usec)(sbd)			-2.17015720773E+03														Apriori delay (usec)	-2.17017156120E+03	Resid mbdelay (usec)	1.43535E-02	+/-	7.5E-06
Sband delay (usec)			-2.17017162820E+03														Apriori clock (usec)	1.7850900E+00	Resid sbdelay (usec)	-6.70000E-05	+/-	1.2E-04
Phase delay (usec)			-2.17017156429E+03														Apriori clockrate (us/s)	4.2799997E-07	Resid phdelay (usec)	-3.09047E-06	+/-	2.6E-08
Delay rate (us/s)			6.98680580149E-01														Apriori rate (us/s)	6.98680589162E-01	Resid rate (us/s)	-9.01285E-09	+/-	1.4E-10
Total phase (deg)																	Apriori accel (us/s/s)	3.82873076812E-05	Resid phase (deg)	-95.8	+/-	0.8

ph/seg (deg) RMS 19.1 Theor. 1.4 Amplitude 2.962 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 6.3 2.4 Search (2048X64) 2.909 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 59.3 1.6 Inc. seg. avg. 3.134 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 79.5 2.8 Inc. frq. avg. 5.161 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 g: az 142.5 el 51.0 pa -10.6 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -5134.530 5088.763 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/gi..1305JH Output file: /Exps/c192a/v2/1234/No0001/gi.W.107.1305JH

Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, gi
GLT - PICOVEL3, fgroup W, pol RR

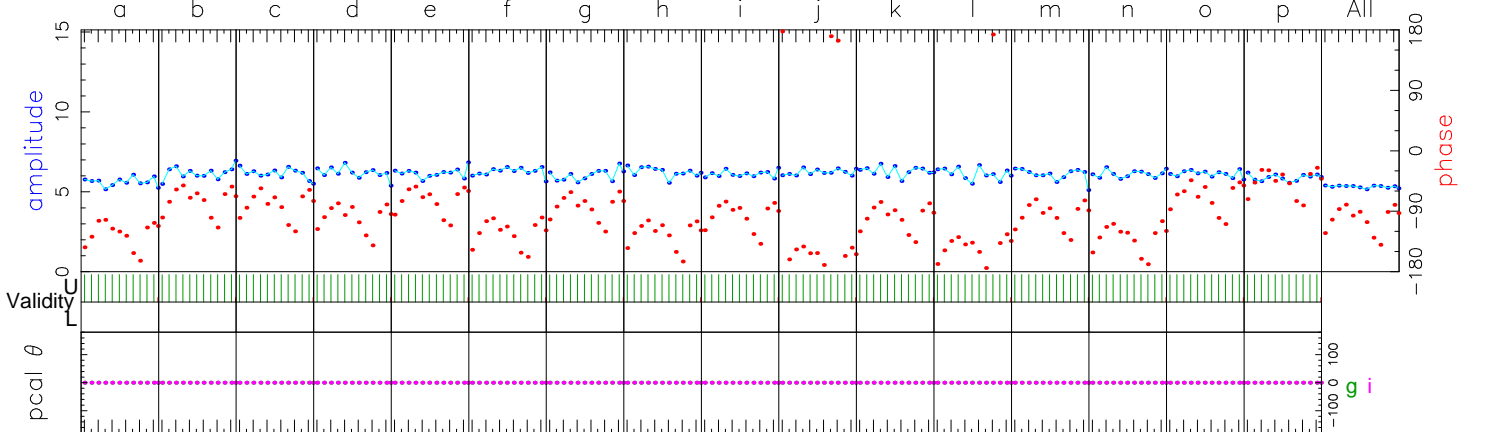


Fringe quality 6

SNR 244.5
Int time 314.024
Amp 5.046
Phase -101.9
PFD 0.0e+00
Delays (us)
SBD -0.001162
MBD -0.014802
Fringe rate (Hz)
-0.000773
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042757
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All					
	-125.1	-73.8	-81.7	-99.9	-74.8	-122.3	-83.9	-123.9	-97.1	-162.8	-99.2	-147.6	-96.3	-130.0	-69.0	-47.1		Phase	-101.9				
	5.3	5.8	5.8	5.9	5.8	5.9	5.7	5.9	5.7	5.9	6.0	5.8	5.8	5.7	5.8	5.6		Ampl.	5.8				
	130.0	129.3	128.9	128.8	128.7	128.3	128.8	128.5	128.4	128.4	128.4	128.6	128.7	128.7	129.5	129.3		Sbd box	128.9				
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0		APs used					
g	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		PC freqs					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs					
g:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase					
g:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000		PC amp					
g	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000							
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids					
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Tracks					
																		Chan ids					
																		Tracks					
Group delay (usec)(sbd)			-2.17018636285E+03															Apriori delay (usec)	-2.17017156120E+03	Resid mbdelay (usec)	-1.48017E-02	+/-	4.4E-06
Sband delay (usec)			-2.17017272320E+03															Apriori clock (usec)	1.7850900E+00	Resid sbdelay (usec)	-1.16200E-03	+/-	7.0E-05
Phase delay (usec)			-2.17017156449E+03															Apriori clockrate (us/s)	4.2799997E-07	Resid phdelay (usec)	-3.28698E-06	+/-	1.5E-08
Delay rate (us/s)			6.98680580187E-01															Apriori rate (us/s)	6.98680589162E-01	Resid rate (us/s)	-8.97530E-09	+/-	8.3E-11
Total phase (deg)			-203.3															Apriori accel (us/s/s)	3.82873076812E-05	Resid phase (deg)	-101.9	+/-	0.5

ph/seg (deg) 19.1 0.8
amp/seg (%) 5.8 1.4
ph/frq (deg) 32.1 0.9
amp/frq (%) 15.0 1.6

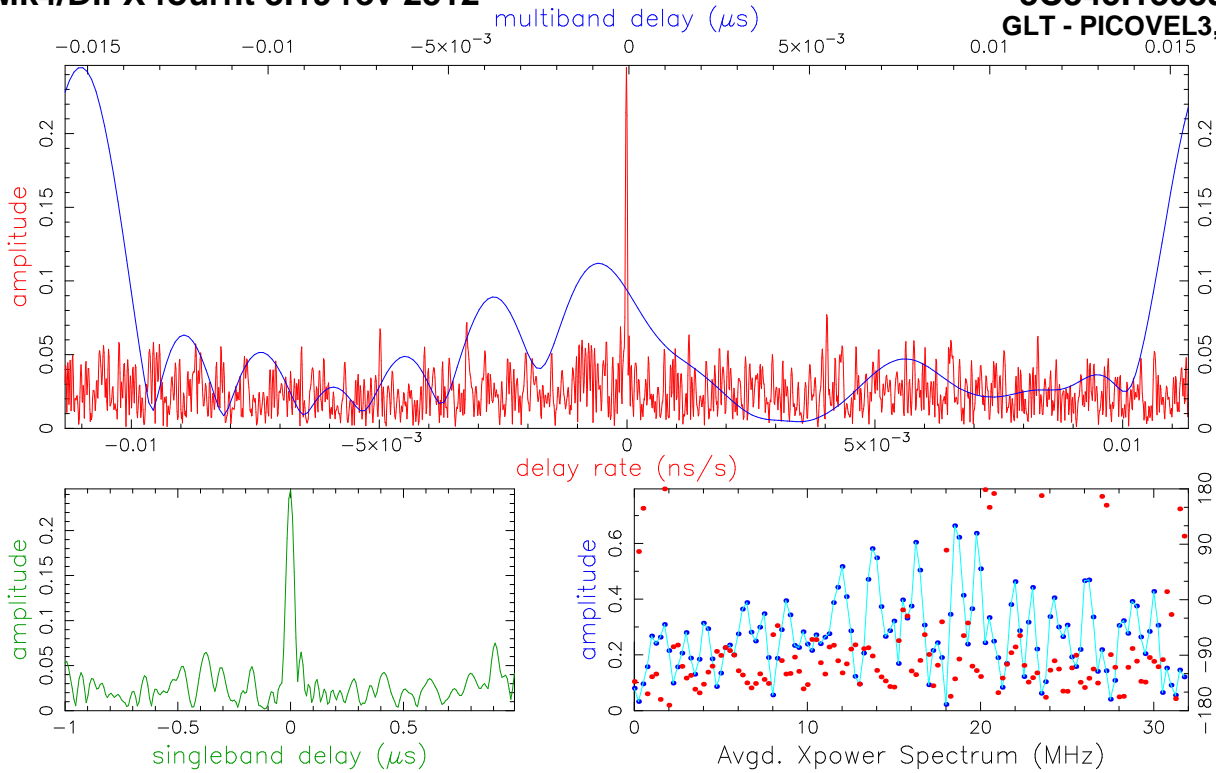
RMS Theor. Amplitude 5.046 +/- 0.021
Search (2048X64) 4.963
Interp. 0.000
Inc. seg. avg. 5.329
Inc. frq. avg. 5.786

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): 64
Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite

sb window (us) -1.000 1.000
mb window (us) -0.016 0.016
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

g: az 142.5 el 51.0 pa -10.6 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -5134.530 5088.763 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/gi..1305JH Output file: /Exps/c192a/v2/1234/No0001/gi.W.126.1305JH

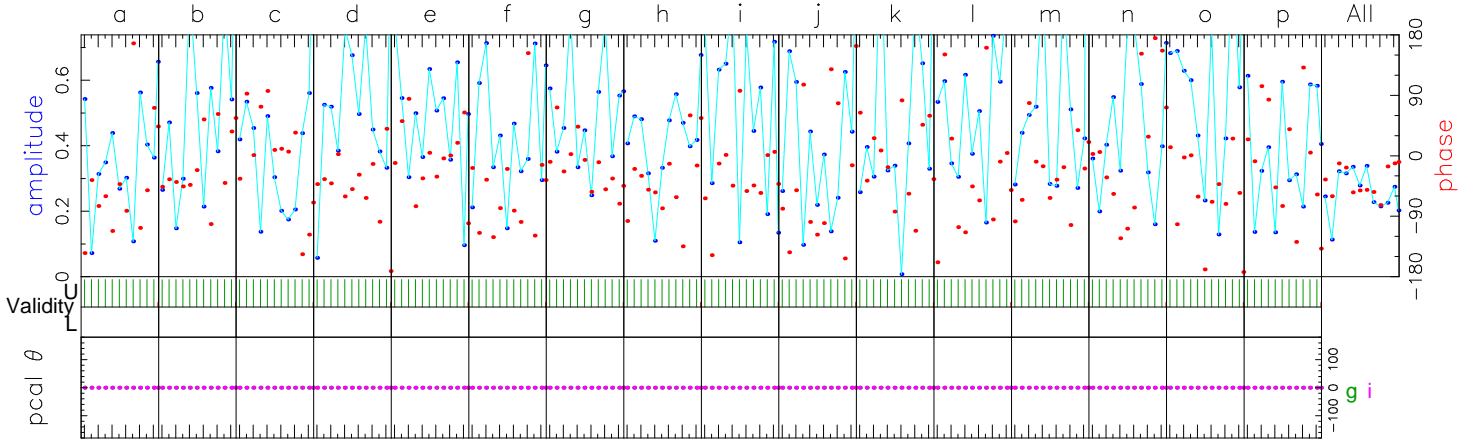


Fringe quality 9

SNR 11.9
Int time 313.982
Amp 0.246
Phase -37.4
PFD 4.0e-24
Delays (us)
SBD -0.001990
MBD -0.015205
Fringe rate (Hz)
-0.001044
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042802
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All					
	-86.7	-26.2	12.7	-42.4	-1.7	-84.1	-17.5	-42.6	-34.7	-109.0	-12.7	-70.9	-22.7	-82.0	-33.7	-4.2		Phase -37.4					
	0.2	0.3	0.1	0.4	0.4	0.3	0.4	0.3	0.4	0.2	0.3	0.2	0.4	0.2	0.4	0.1		Ampl. 0.3					
	130.5	129.3	236.7	129.6	127.8	127.8	129.9	128.2	128.0	122.9	127.3	137.7	128.6	220.8	129.4	202.7		Sbd box 128.7					
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0		APs used					
g	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		PC freqs					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs					
g:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase					
g:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000		PC amp					
g	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000							
g	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Chan ids					
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Tracks					
																		Chan ids					
																		Tracks					
Group delay (usec)(sbd)			-2.17018676598E+03															Apriori delay (usec)	-2.17017156120E+03	Resid mbdelay (usec)	-1.52048E-02	+/-	9.0E-05
Sband delay (usec)			-2.17017355170E+03															Apriori clock (usec)	1.7850900E+00	Resid sbdelay (usec)	-1.99050E-03	+/-	1.4E-03
Phase delay (usec)			-2.17017156241E+03															Apriori clockrate (us/s)	4.2799997E-07	Resid phdelay (usec)	-1.20713E-06	+/-	3.1E-07
Delay rate (us/s)			6.98680577046E-01															Apriori rate (us/s)	6.98680589162E-01	Resid rate (us/s)	-1.21163E-08	+/-	1.7E-09
Total phase (deg)																		Apriori accel (us/s/s)	3.82873076812E-05	Resid phase (deg)	-37.4	+/-	9.6

ph/seg (deg) 21.4 16.6
amp/seg (%) 26.9 29.0
ph/frq (deg) 37.0 19.2
amp/frq (%) 44.1 33.5

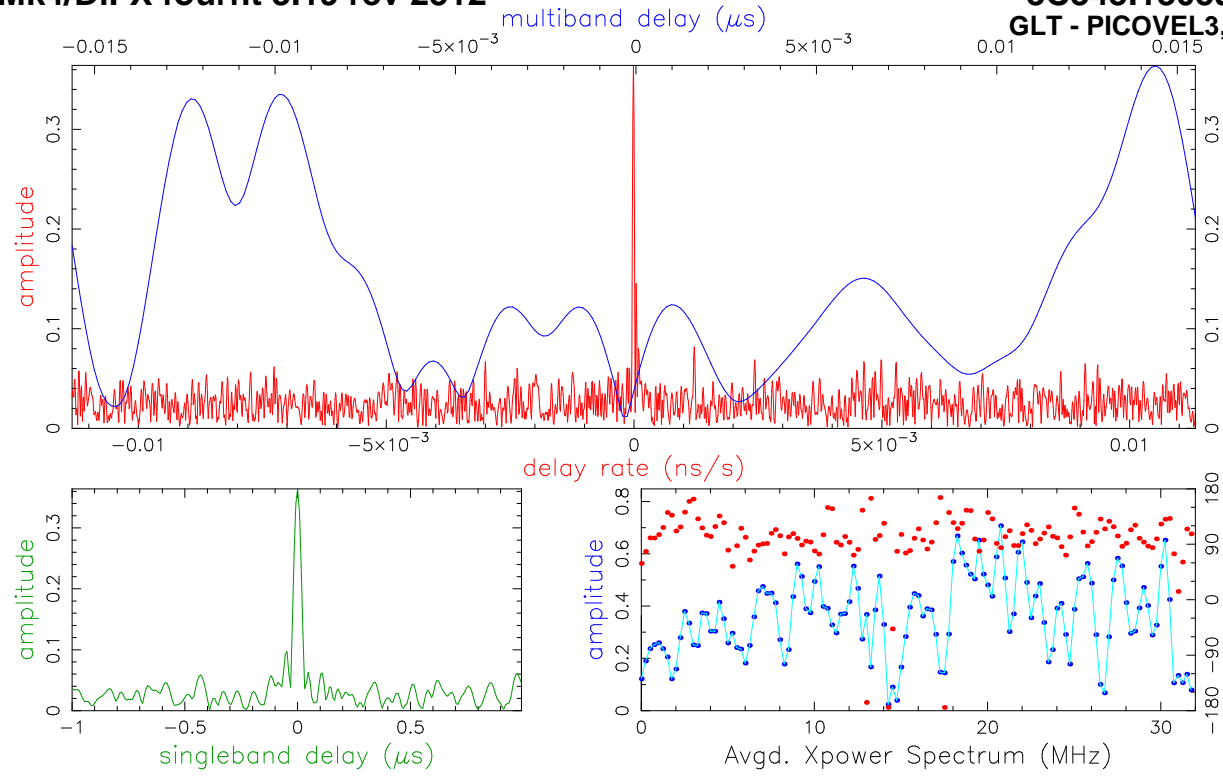
RMS Theor. Amplitude 0.246 +/- 0.021
Search (2048X64) 0.244
Interp. 0.000
Inc. seg. avg. 0.251
Inc. frq. avg. 0.266

g: az 142.5 el 51.0 pa -10.6 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -5134.530 5088.763

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/gi..1305JH Output file: /Exps/c192a/v2/1234/No0001/gi.W.146.1305JH

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) -0.016 0.016
Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

simultaneous interpolator

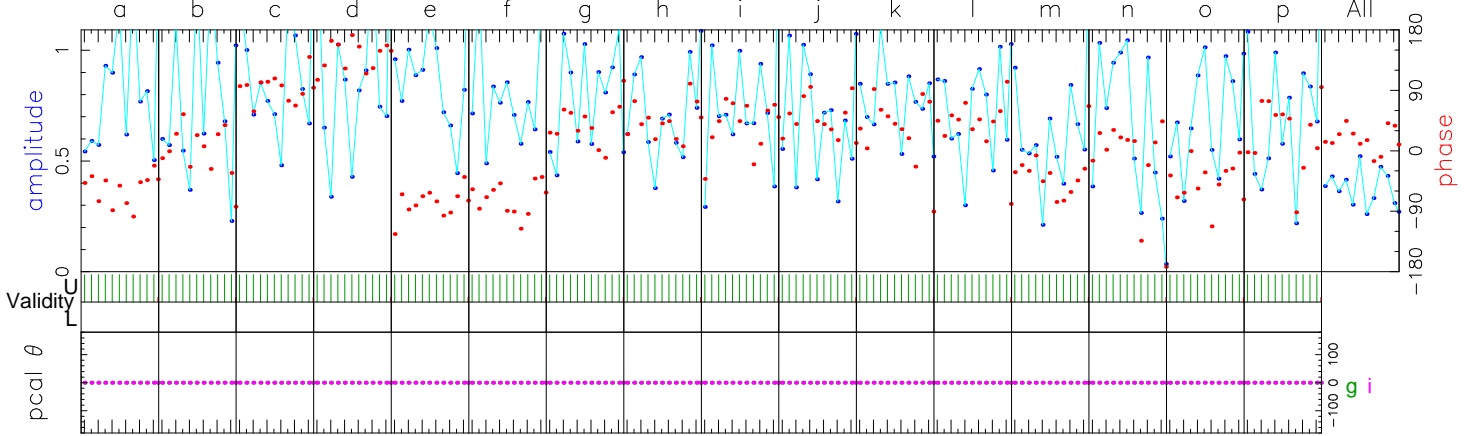


Fringe quality 9

SNR 17.6
Int time 314.024
Amp 0.364
Phase 17.7
PFD 0.0e+00
Delays (us)
SBD -0.000929
MBD 0.014386
Fringe rate (Hz)
-0.000854
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

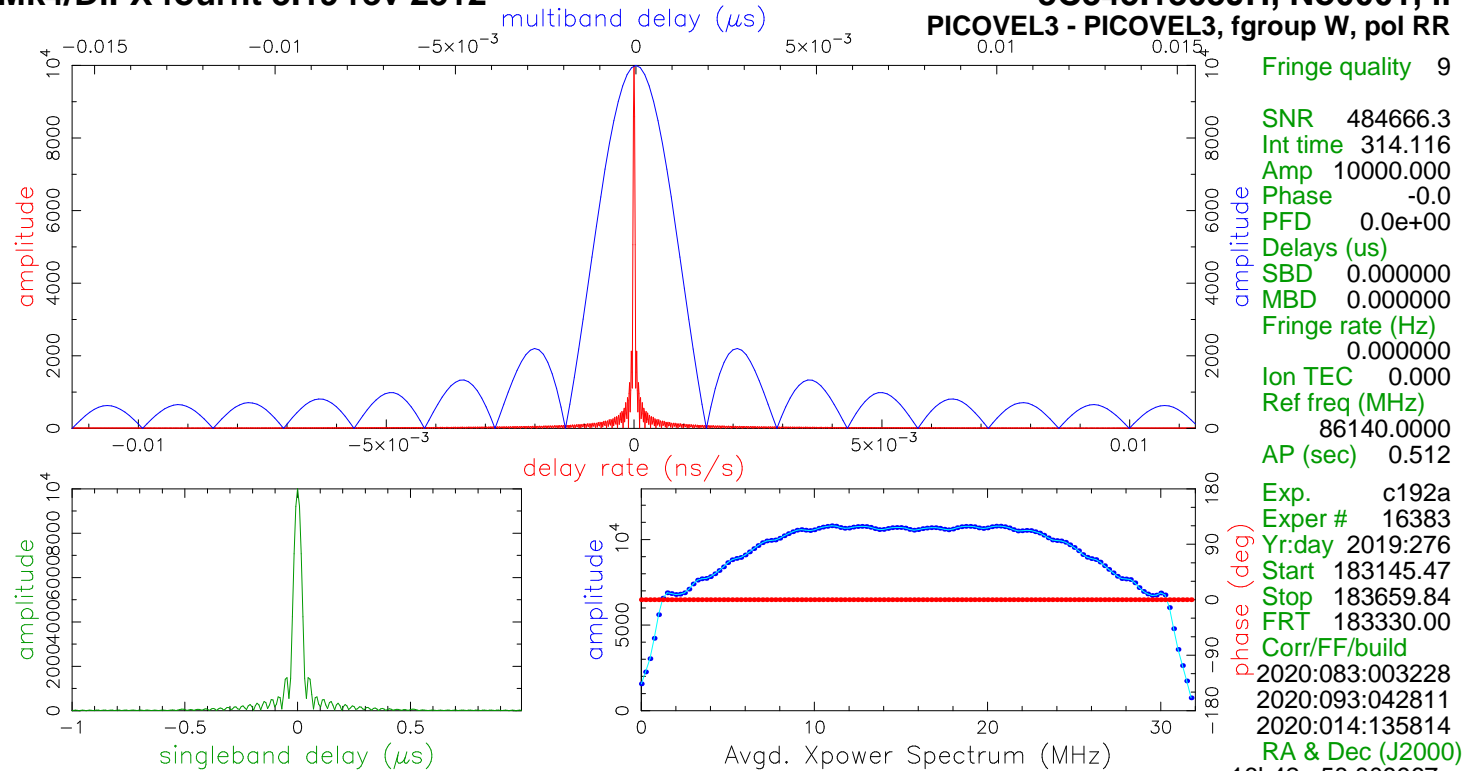
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042807
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec

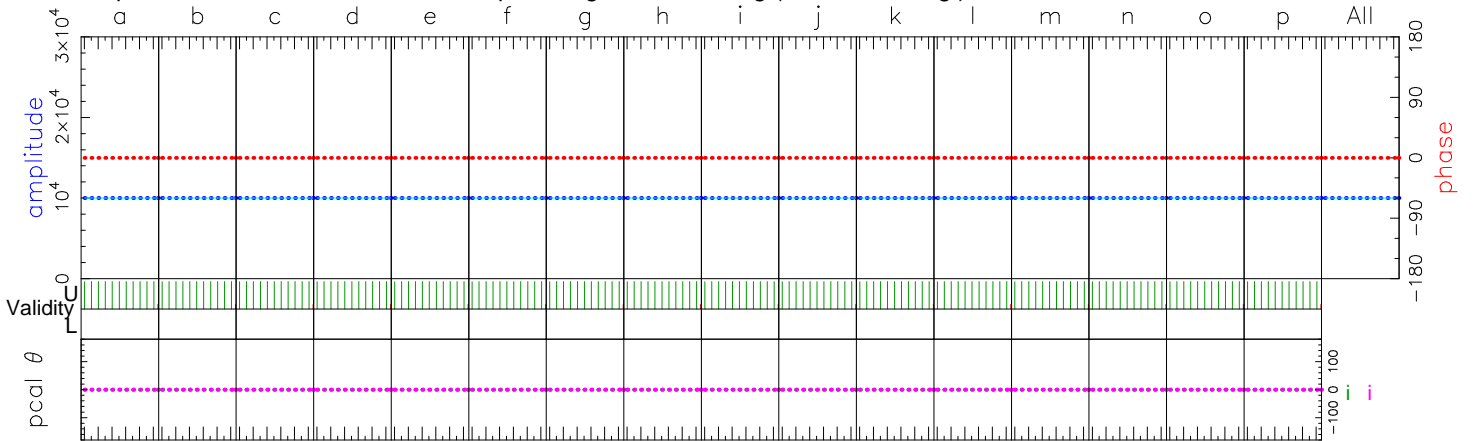


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All					
	-60.2	9.1	91.4	134.8	-77.8	-70.1	40.6	49.3	39.7	55.5	43.2	44.5	-37.7	11.5	-40.6	28.0		Phase	17.7				
	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.6	0.6	0.6	0.7	0.6	0.5	0.6	0.6	0.5		Ampl.	0.7				
	130.1	129.9	129.0	129.0	129.0	128.2	128.8	129.1	128.6	128.9	127.9	128.4	129.0	129.2	130.1	129.4		Sbd box	128.9				
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0		APs used					
g	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		PC freqs					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs					
g:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase					
g:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000		PC amp					
g	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000							
g	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids					
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks					
																		Chan ids					
																		Tracks					
Group delay (usec)(sbd)			-2.17015717507E+03															Apriori delay (usec)	-2.17017156120E+03	Resid mbdelay (usec)	1.43861E-02	+/-	6.1E-05
Sband delay (usec)			-2.17017248970E+03															Apriori clock (usec)	1.7850900E+00	Resid sbdelay (usec)	-9.28500E-04	+/-	9.8E-04
Phase delay (usec)			-2.17017156063E+03															Apriori clockrate (us/s)	4.2799997E-07	Resid phdelay (usec)	5.70024E-07	+/-	2.1E-07
Delay rate (us/s)			6.98680579252E-01															Apriori rate (us/s)	6.98680589162E-01	Resid rate (us/s)	-9.90989E-09	+/-	1.2E-09
Total phase (deg)																		Apriori accel (us/s/s)	3.82873076812E-05	Resid phase (deg)	17.7	+/-	6.5

ph/seg (deg) 18.2 11.2 Theor. Amplitude 0.364 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 21.6 19.6 Search (2048X64) 0.357 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 61.8 13.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 88.6 22.7 Inc. seg. avg. 0.376 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
 g: az 142.5 el 51.0 pa -10.6 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -5134.530 5088.763 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/gi..1305JH Output file: /Exps/c192a/v2/1234/No0001/gi.W.164.1305JH simultaneous interpolator



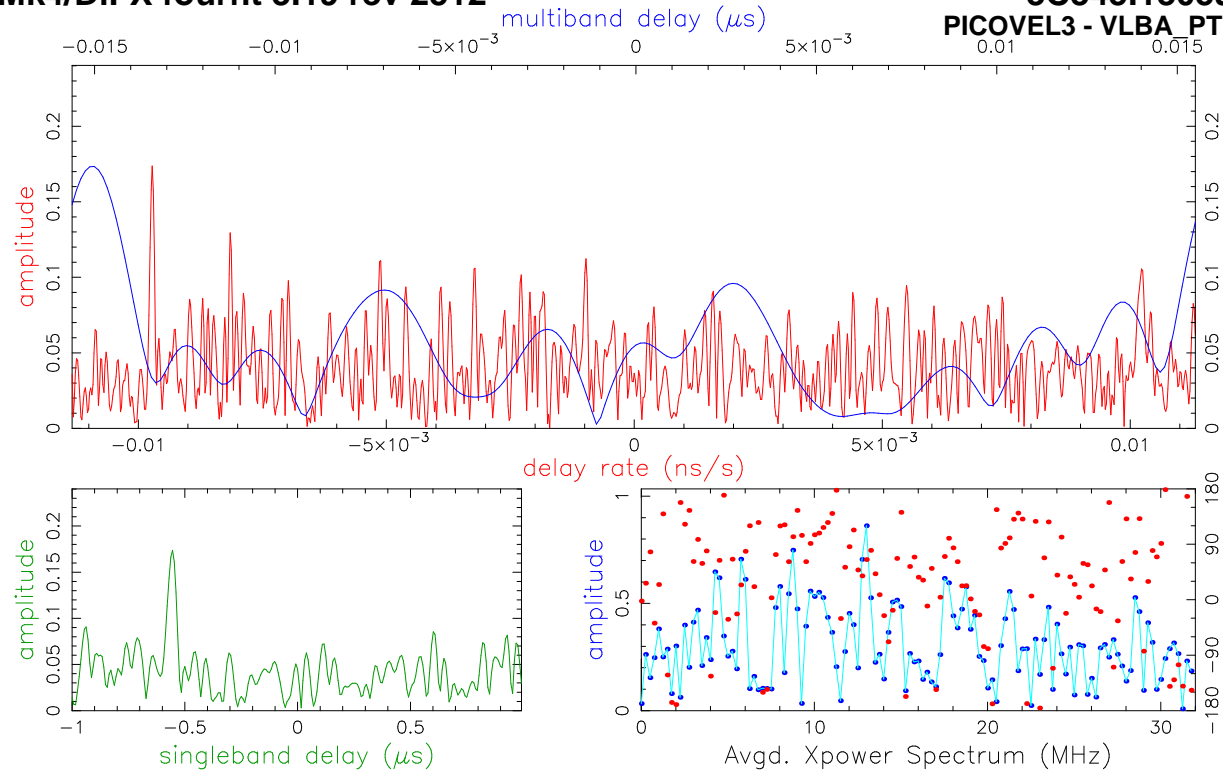
Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All		
-0.0	0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	-0.0	0.0	-0.0	Phase	-0.0		
10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0		
129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	Sbd box	129.0		
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used			
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs			
ii	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase			
iii	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC			
iiii	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp			
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids			
ii	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Tracks			
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids		
ii	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks		
Group delay (usec)(sbd)		0.0000000000E+00				Apriori delay (usec)				0.0000000000E+00				Resid mbdelay (usec)				0.00000E+00 +/- 2.2E-09	
Sband delay (usec)		0.0000000000E+00				Apriori clock (usec)				0.0000000E+00				Resid sbdelay (usec)				0.00000E+00 +/- 3.6E-08	
Phase delay (usec)		-1.26996588227E-19				Apriori clockrate (us/s)				0.0000000E+00				Resid phdelay (usec)				-1.26997E-19 +/- 7.6E-12	
Delay rate (us/s)		0.0000000000E+00				Apriori rate (us/s)				0.0000000000E+00				Resid rate (us/s)				0.00000E+00 +/- 4.2E-14	
Total phase (deg)		-0.0				Apriori accel (us/s/s)				0.0000000000E+00				Resid phase (deg)				-0.0 +/- 0.0	
RMS		Theor.		Amplitude		10000.000 +/- 0.021		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			
ph/seg (deg)		0.0		Search (2048X64)		10000.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)		-0.016 0.016					
amp/seg (%)		0.0		Interp.		0.000		Sample rate(MISamp/s): 64		dr window (ns/s)		-0.011 0.011							
ph/frq (deg)		0.0		Inc. seg. avg.		10000.000		Data rate(Mb/s): 2048		nlags: 128		ion window (TEC)		0.00 0.00					
amp/frq (%)		0.0		Inc. frq. avg.		10000.000													

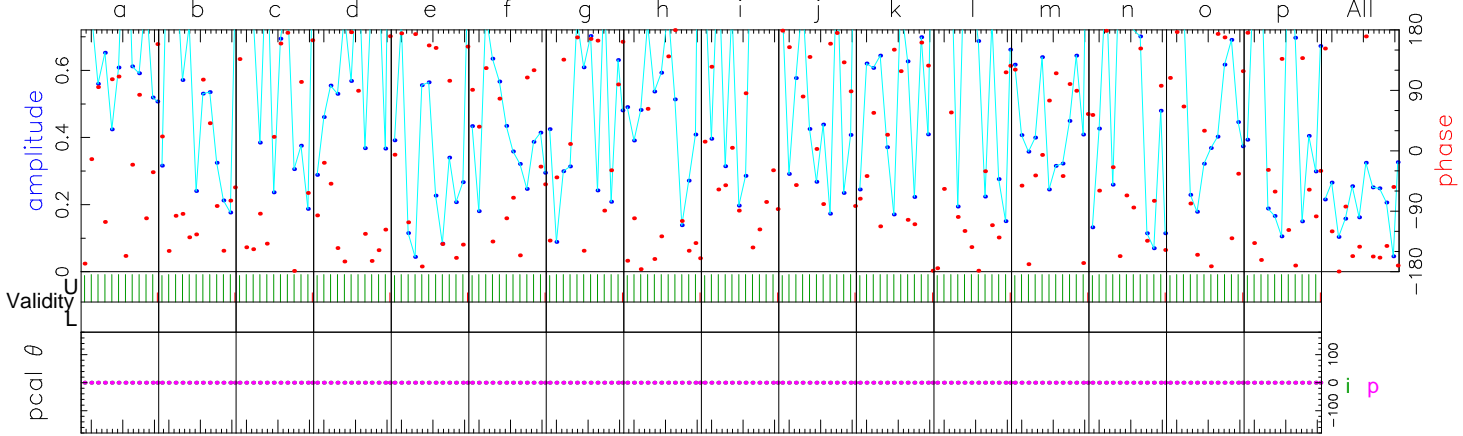
Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, ip
 PICOVEL3 - VLBA_PT, fgroup W, pol LL



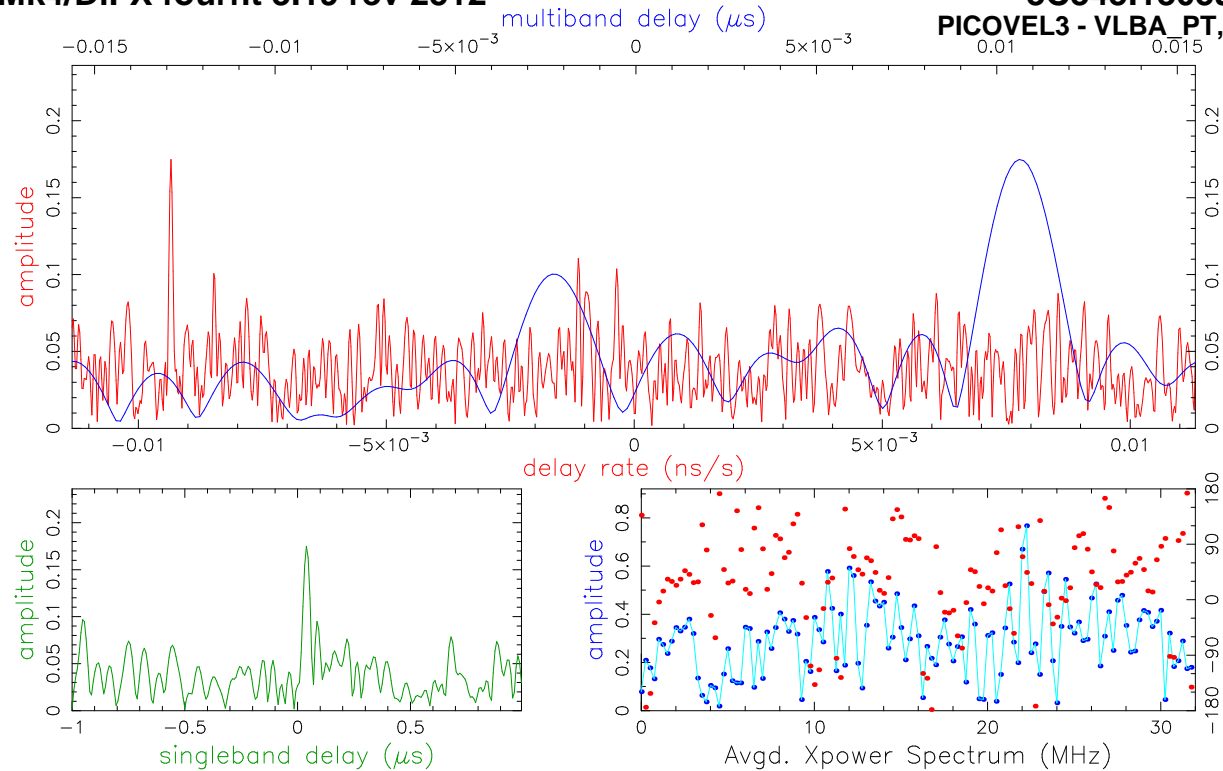
Fringe quality 0
 SNR 5.6
 Int time 138.827
 Amp 0.240
 Phase -155.8
 PFD 9.3e-01
 Delays (us)
 SBD -0.555477
 MBD -0.015072
 Fringe rate (Hz)
 -0.839106
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183440.58
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:083:003228
 2020:093:042808
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 24 APs / seg (12.29 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-148.3	-113.1	-170.1	-154.5	172.7	134.1	-172.0	-168.1	-64.4	157.5	-178.9	-129.9	70.4	-131.3	159.9	-135.3	Phase	-155.8
	0.1	0.4	0.6	0.5	0.3	0.1	0.3	0.5	0.5	0.2	0.1	0.4	0.2	0.3	0.3	0.5	Ampl.	0.3
	37.1	31.9	207.1	180.0	162.4	210.3	200.3	95.1	58.2	178.1	91.5	102.3	176.0	106.2	243.7	59.3	Sbd box	57.9
UL	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	APs used	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
ip	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
ip	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	
Group delay (usec)(sbd)	6.09692821797E+03			Apriori delay (usec)			6.09747453990E+03			Resid mbdelay (usec)			-1.50719E-02			+/- 1.9E-04		
Sband delay (usec)	6.09691906240E+03			Apriori clock (usec)			-1.2394873E+01			Resid sbdelay (usec)			-5.55477E-01			+/- 3.1E-03		
Phase delay (usec)	6.09747453488E+03			Apriori clockrate (us/s)			-5.5688657E-07			Resid phdelay (usec)			-5.02450E-06			+/- 6.6E-07		
Delay rate (us/s)	-1.48104638839E+00			Apriori rate (us/s)			-1.48103664721E+00			Resid rate (us/s)			-9.74118E-06			+/- 8.2E-09		
Total phase (deg)	156.4			Apriori accel (us/s/s)			-2.9656595314E-05			Resid phase (deg)			-155.8			+/- 20.5		

ph/seg (deg) 43.9 35.5 Search (1024X64) 0.171 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 48.9 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) 54.1 41.0 Inc. seg. avg. 0.240 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 65.5 71.5 Inc. frq. avg. 0.258 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 i: az 286.6 el 62.3 pa 84.7 p: az 62.4 el 35.8 pa -72.0 u,v (fr/asec) 10985.437 -1805.987 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/ip..1305JH Output file: /Exps/c192a/v2/1234/No0001/ip.W.169.1305JH

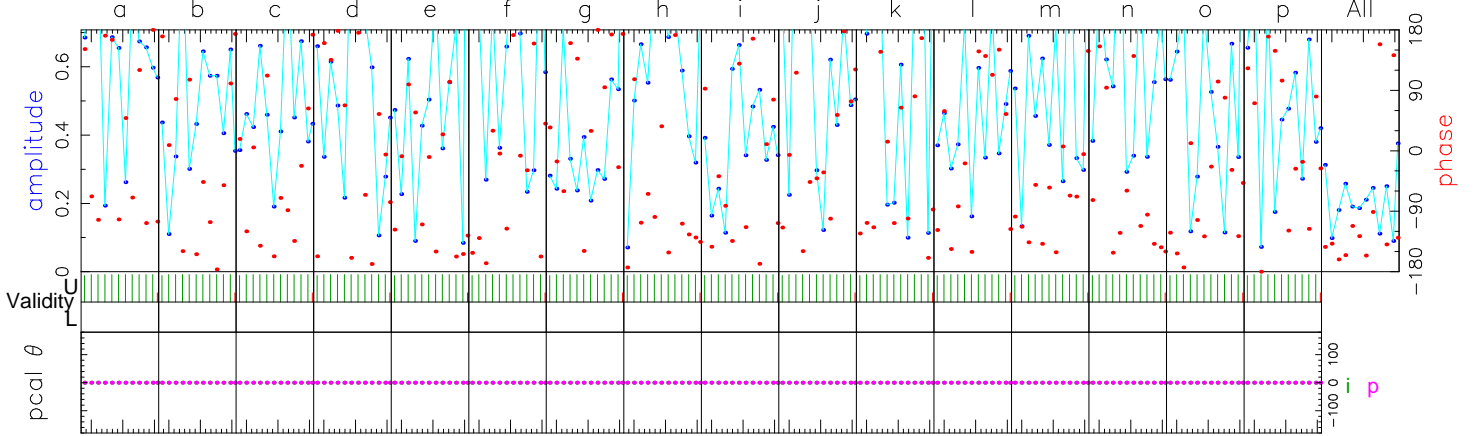


Fringe quality 0

SNR 5.6
 Int time 138.827
 Amp 0.236
 Phase -141.4
 PFD 8.6e-01
 Delays (us)
 SBD 0.040234
 MBD 0.010644
 Fringe rate (Hz)
 -0.805945
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

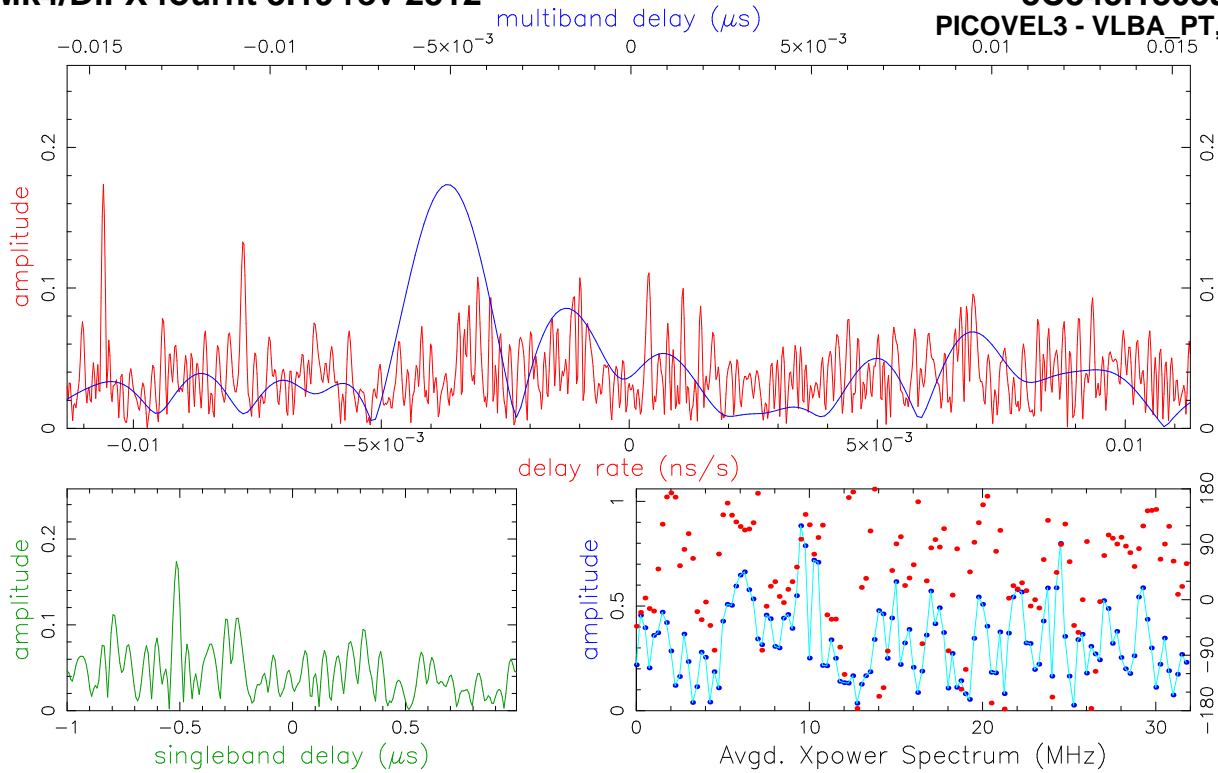
Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183440.58
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:083:003228
 2020:093:042811
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 24 APs / seg (12.29 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-126.6	-158.8	-85.2	-169.1	-149.7	-140.9	-162.3	-125.1	174.4	-150.1	-160.3	130.8	-95.5	-141.5	-111.7	126.8	Phase	-141.4
	0.4	0.2	0.2	0.4	0.2	0.3	0.1	0.4	0.2	0.1	0.4	0.1	0.4	0.5	0.3	0.1	Ampl.	0.2
	178.8	244.6	5.9	23.8	101.1	147.1	200.2	171.6	240.1	90.9	118.0	154.9	250.3	133.4	161.5	14.4	Sbd box	134.1
U/L	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	APs used	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
ip	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
ip	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	
																	Chan ids	
																	Tracks	
Group delay (usec)(sbd)	6.09751643352E+03			Apriori delay (usec)			6.09747453990E+03			Resid mbdelay (usec)			1.06436E-02			+/- 1.9E-04		
Sband delay (usec)	6.09751477390E+03			Apriori clock (usec)			-1.2394873E+01			Resid sbdelay (usec)			4.02340E-02			+/- 3.1E-03		
Phase delay (usec)	6.09747453534E+03			Apriori clockrate (us/s)			-5.5688657E-07			Resid phdelay (usec)			-4.56060E-06			+/- 6.5E-07		
Delay rate (us/s)	-1.48104600343E+00			Apriori rate (us/s)			-1.48103664721E+00			Resid rate (us/s)			-9.35622E-06			+/- 8.1E-09		
Total phase (deg)	170.8			Apriori accel (us/s/s)			-2.96565955314E-05			Resid phase (deg)			-141.4			+/- 20.3		

ph/seg (deg) RMS Theor. Amplitude 0.236 +/- 0.042 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 44.2 61.3 Search (1024X64) 0.168 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.7 40.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 58.5 70.8 Inc. seg. avg. 0.226 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 i: az 286.6 el 62.3 pa 84.7 p: az 62.4 el 35.8 pa -72.0 u,v (fr/asec) 10985.437 -1805.987 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/ip..1305JH Output file: /Exps/c192a/v2/1234/No0001/ip.W.174.1305JH simultaneous interpolator

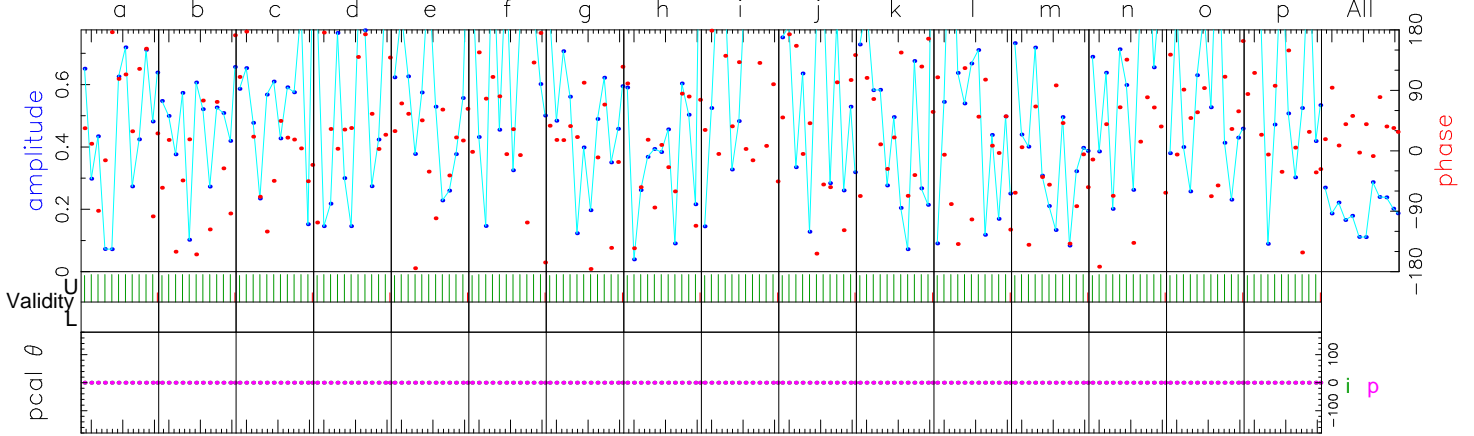


Fringe quality 0

SNR 5.6
 Int time 138.827
 Amp 0.258
 Phase 33.6
 PFD 8.8e-01
 Delays (us)
 SBD -0.513569
 MBD -0.005088
 Fringe rate (Hz)
 -0.914626
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183440.58
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:083:003228
 2020:093:042813
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 24 APs / seg (12.29 sec / seg.), time ticks 10 sec

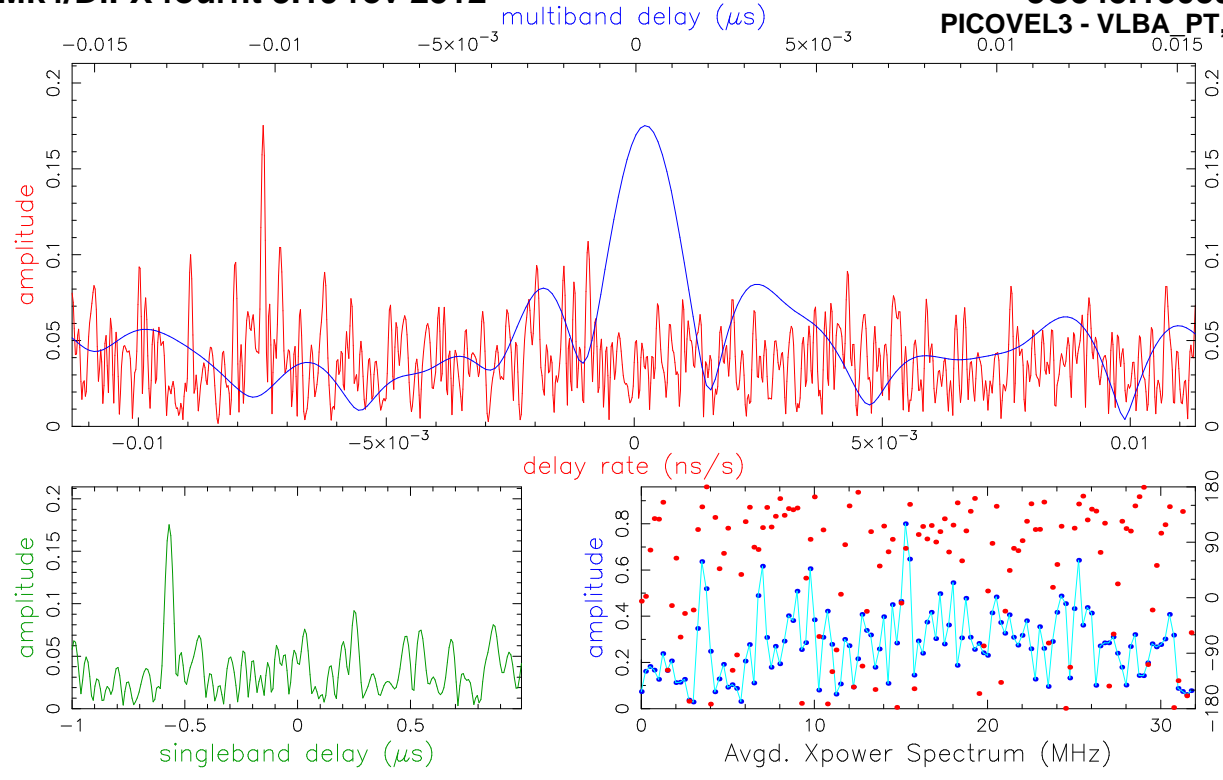


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	94.6	-50.2	2.1	58.0	25.8	65.4	33.8	38.8	41.6	118.0	35.0	-37.3	-17.3	46.0	37.9	44.0	Phase	33.6
i	0.2	0.2	0.3	0.2	0.5	0.2	0.4	0.2	0.4	0.1	0.3	0.2	0.3	0.5	0.3	0.4	Ampl.	0.2
p	57.2	221.5	168.1	180.9	1.4	185.9	69.0	240.5	255.0	101.7	151.9	84.4	17.9	252.9	74.7	156.1	Sbd box	63.3
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
ip	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
ip	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	
																	Chan ids	
																	Tracks	
Group delay (usec)(sbd)	6.09696945211E+03			Apriori delay (usec)			6.09747453990E+03			Resid mbdelay (usec)			-5.08780E-03			+/- 1.9E-04		
Sband delay (usec)	6.09696097040E+03			Apriori clock (usec)			-1.2394873E+01			Resid sbdelay (usec)			-5.13569E-01			+/- 3.1E-03		
Phase delay (usec)	6.09747454099E+03			Apriori clockrate (us/s)			-5.5688657E-07			Resid phdelay (usec)			1.08473E-06			+/- 6.6E-07		
Delay rate (us/s)	-1.48104726511E+00			Apriori rate (us/s)			-1.48103664721E+00			Resid rate (us/s)			-1.06179E-05			+/- 8.2E-09		
Total phase (deg)	345.9			Apriori accel (us/s/s)			-2.96565955314E-05			Resid phase (deg)			33.6			+/- 20.3		

ph/seg (deg) RMS Theor. Amplitude 0.258 +/- 0.046 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 30.0 35.2 Search (1024X64) 0.167 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 34.4 61.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 45.1 40.7 Inc. seg. avg. 0.250 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 50.2 71.0 Inc. frq. avg. 0.240 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

i: az 286.6 el 62.3 pa 84.7 p: az 62.4 el 35.8 pa -72.0 u,v (fr/asec) 10985.437 -1805.987 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/ip..1305JH Output file: /Exps/c192a/v2/1234/No0001/ip.W.184.1305JH

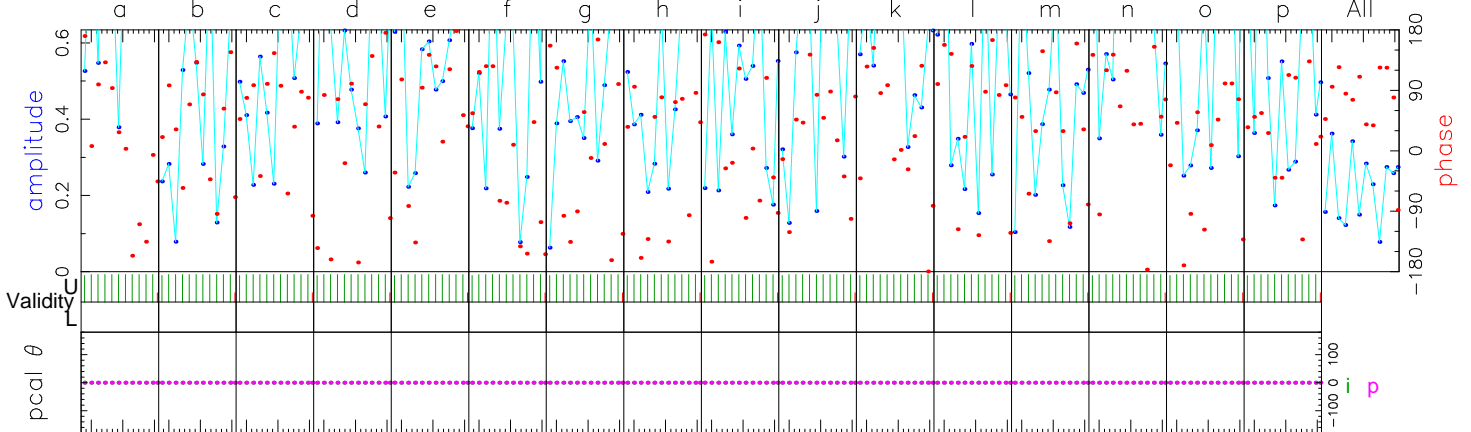


Fringe quality 0

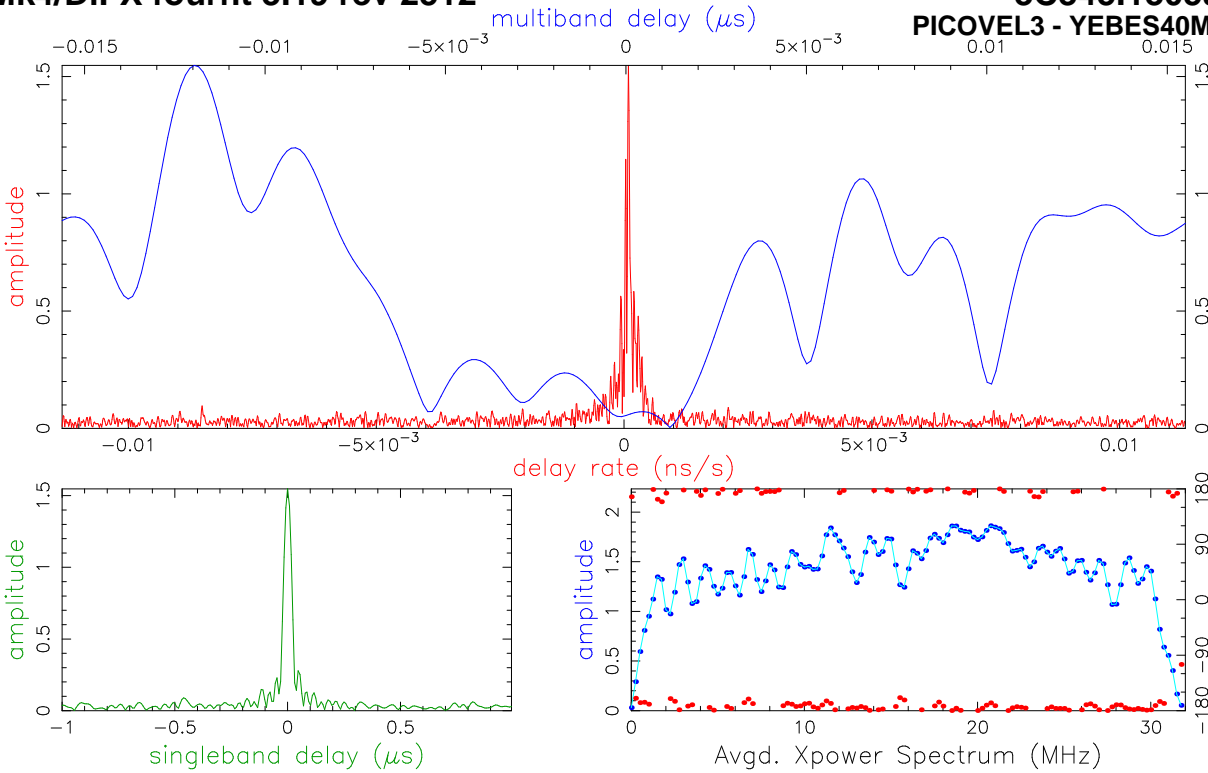
SNR 5.7
 Int time 138.827
 Amp 0.211
 Phase 81.7
 PFD 8.6e-01
 Delays (us)
 SBD -0.569485
 MBD 0.000271
 Fringe rate (Hz)
 -0.645957
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183440.58
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:083:003228
 2020:093:042816
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 24 APs / seg (12.29 sec / seg.), time ticks 10 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	74.7	53.8	64.4	112.9	96.2	87.8	-151.7	79.9	-79.3	48.8	73.3	121.1	69.4	105.2	58.9	51.1	Phase	81.7
i	0.1	0.1	0.4	0.3	0.3	0.1	0.1	0.3	0.1	0.3	0.3	0.4	0.1	0.5	0.3	0.3	Ampl.	0.2
p	61.1	134.9	119.9	222.0	38.1	237.3	197.2	171.0	242.0	124.3	58.1	113.0	214.8	56.1	133.4	167.3	Sbd box	56.1
UL	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	272/0	APs used	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
ip	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	
																	Chan ids	
																	Tracks	
Group delay (usec)(sbd)	6.09691231121E+03			Apriori delay (usec)			6.09747453990E+03			Resid mbdelay (usec)			2.71310E-04			+/- 1.9E-04		
Sband delay (usec)	6.09690505440E+03			Apriori clock (usec)			-1.2394873E+01			Resid sbdelay (usec)			-5.69485E-01			+/- 3.0E-03		
Phase delay (usec)	6.09747454254E+03			Apriori clockrate (us/s)			-5.5688657E-07			Resid phdelay (usec)			2.63444E-06			+/- 6.5E-07		
Delay rate (us/s)	-1.48104414613E+00			Apriori rate (us/s)			-1.48103664721E+00			Resid rate (us/s)			-7.49893E-06			+/- 8.1E-09		
Total phase (deg)	34.0			Apriori accel (us/s/s)			-2.9656595314E-05			Resid phase (deg)			81.7			+/- 20.3		
ph/seg (deg)	RMS	Theor.	Amplitude			0.211 +/- 0.037			Pcal mode: MANUAL, MANUAL			PC period (AP's) 5, 5						
amp/seg (%)	43.0	35.1	Search (1024X64)			0.168			Pcal rate: 0.000E+00, 0.000E+00 (us/s)			sb window (us)			-1.000 1.000			
ph/frq (deg)	56.7	61.3	Interp.			0.000			Bits/sample: 2x2			SampCntNorm: enabled			mb window (us)		-0.016 0.016	
amp/frq (%)	59.3	40.6	Inc. seg. avg.			0.223			Sample rate(MISamp/s): 64			dr window (ns/s)			-0.011 0.011			
	67.3	70.8	Inc. frq. avg.			0.204			Data rate(Mb/s): 2048			nlags: 128 t_cohere infinite			ion window (TEC)		0.00 0.00	
i: az 286.6 el 62.3 pa 84.7	p: az 62.4 el 35.8 pa -72.0			u, v (fr/asec)			10985.437 -1805.987									simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/c192a/v2/1234/No0001/ip..1305JH			Output file: /Exps/c192a/v2/1234/No0001/ip.W.197.1305JH														

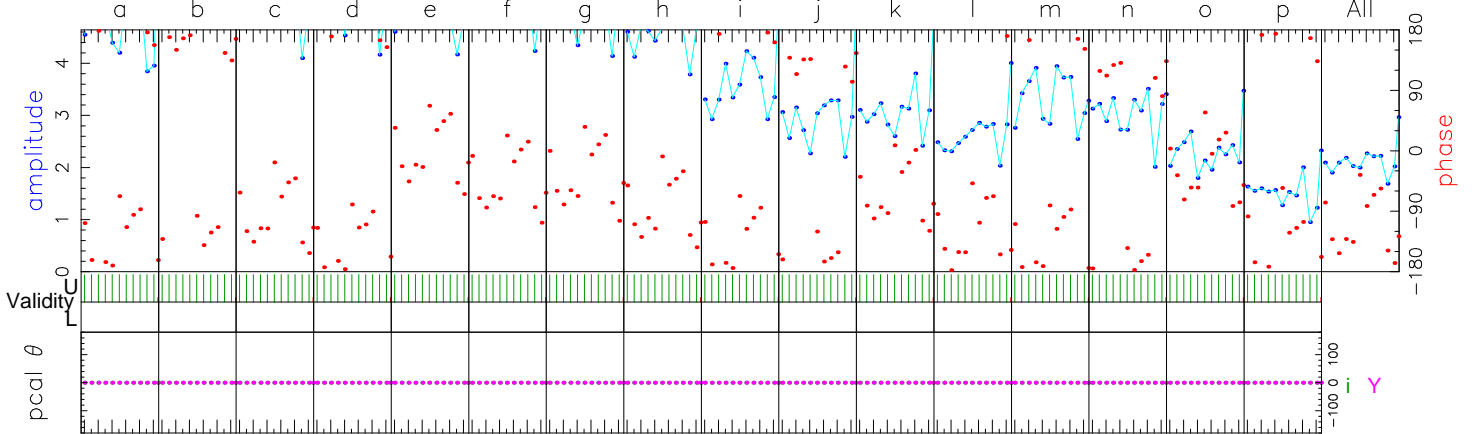


Fringe quality 2

SNR 75.0
 Int time 313.918
 Amp 1.548
 Phase -107.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.000202
 MBD -0.011939
 Fringe rate (Hz) 0.007199
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

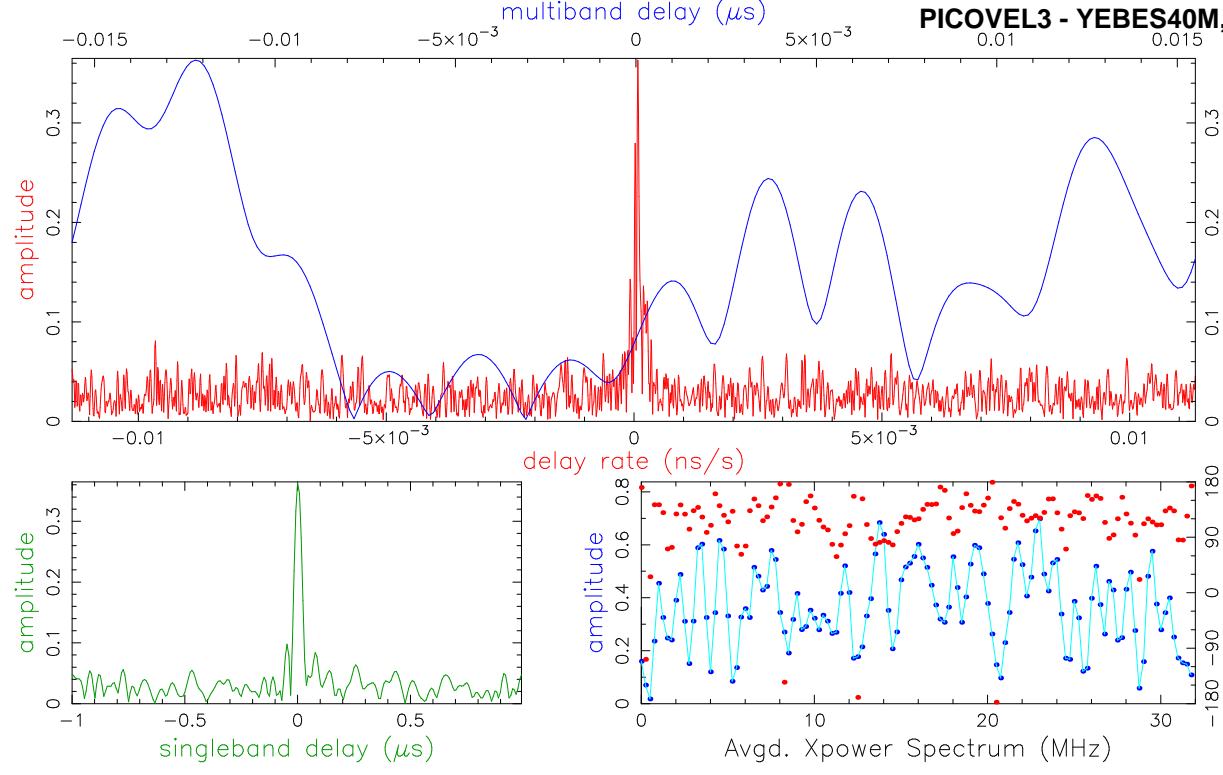
Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183145.47
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:083:003228
 2020:093:042810
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-139.6	-165.7	-91.5	-143.9	0.9	-43.5	-35.1	-82.2	-139.8	165.2	-59.9	-122.8	-145.2	152.4	-29.2	-146.4	Phase	-107.4
	3.5	4.0	3.9	4.0	3.6	3.7	3.5	3.3	2.6	2.1	2.3	1.8	2.4	2.2	1.6	1.0	Ampl.	2.8
	129.3	129.0	128.9	129.0	129.0	128.8	128.9	129.0	129.1	129.1	129.2	128.5	128.7	128.9	128.1	128.4	Sbd box	129.0
UL	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
i:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
i:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	
																	Chan ids	
																	Tracks	
Group delay (usec)(sbd)	-1.06407177009E+02			Apriori delay (usec)			-1.06395238026E+02			Resid mbdelay (usec)			-1.19390E-02			+/- 1.4E-05		
Sband delay (usec)	-1.06395036026E+02			Apriori clock (usec)			-1.0140948E+01			Resid sbdelay (usec)			2.02000E-04			+/- 2.3E-04		
Phase delay (usec)	-1.06395241488E+02			Apriori clockrate (us/s)			-5.7299998E-07			Resid phdelay (usec)			-3.46175E-06			+/- 4.9E-08		
Delay rate (us/s)	-2.28605227189E-02			Apriori rate (us/s)			-2.28606062926E-02			Resid rate (us/s)			8.35737E-08			+/- 2.7E-10		
Total phase (deg)	-36.6			Apriori accel (us/s/s)			-2.87098733080E-06			Resid phase (deg)			-107.4			+/- 1.5		

ph/seg (deg) 42.7 2.6 Search (2048X64) 1.472 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 36.5 4.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 64.4 3.1 Inc. seg. avg. 2.077 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 102.8 5.3 Inc. frq. avg. 2.844 Sample rate(MISamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 i: az 286.6 el 62.3 pa 84.7 Y: az 280.2 el 62.9 pa 77.1 u,v (fr/asec) 164.667 -508.882 ion window (TEC) 0.00 0.00 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/iY...1305JH Output file: /Exps/c192a/v2/1234/No0001/iY.W.172.1305JH

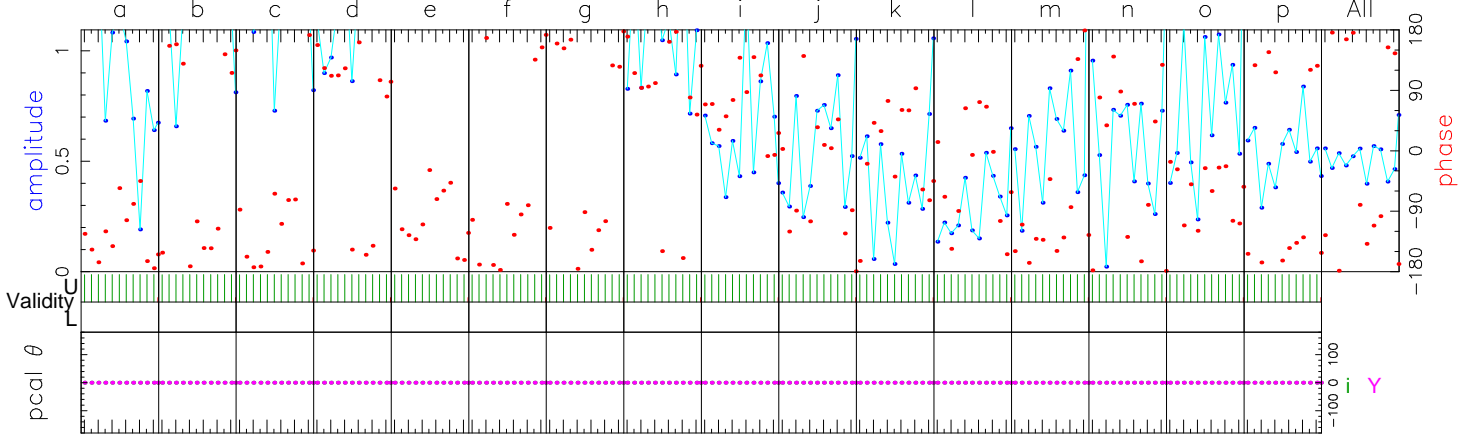


Fringe quality 7

SNR 17.7
Int time 313.918
Amp 0.365
Phase -154.5
PFD 0.0e+00
Delays (us)
SBD 0.001797
MBD -0.012184
Fringe rate (Hz) 0.007139
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

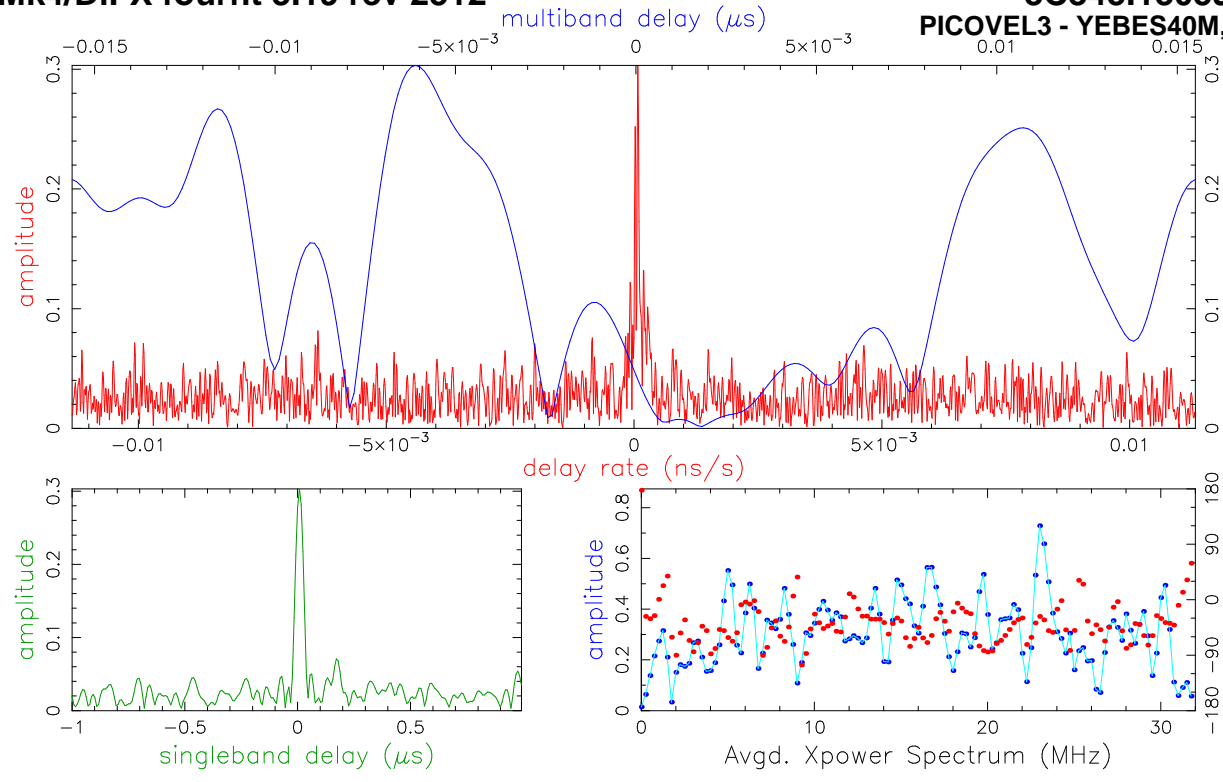
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042820
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
	-128.6	-170.2	-131.9	148.1	-95.0	-152.4	-166.8	133.6	66.1	-19.8	10.5	-2.5	-129.5	150.3	-58.0	179.0	Phase	-154.5				
	0.7	0.9	0.9	0.9	1.1	1.1	1.0	0.7	0.5	0.2	0.1	0.1	0.4	0.3	0.6	0.4	Ampl.	0.6				
	128.6	129.1	128.2	128.2	129.2	128.5	129.0	128.6	128.3	234.0	32.0	190.3	128.3	129.5	128.7	128.1	Sbd box	129.2				
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
i:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
i:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	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	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000						
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids					
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks					
																	Chan ids					
																	Tracks					
Group delay (usec)(sbd)			-1.06407422195E+02														Apriori delay (usec)	-1.06395238026E+02	Resid mbdelay (usec)	-1.21842E-02	+/-	6.1E-05
Sband delay (usec)			-1.06393440526E+02														Apriori clock (usec)	-1.0140948E+01	Resid sbdelay (usec)	1.79750E-03	+/-	9.7E-04
Phase delay (usec)			-1.06395243008E+02														Apriori clockrate (us/s)	-5.7299998E-07	Resid phdelay (usec)	-4.98226E-06	+/-	2.1E-07
Delay rate (us/s)			-2.28605234161E-02														Apriori rate (us/s)	-2.28606062926E-02	Resid rate (us/s)	8.28764E-08	+/-	1.2E-09
Total phase (deg)																	Apriori accel (us/s/s)	-2.87098733080E-06	Resid phase (deg)	-154.5	+/-	6.5

ph/seg (deg) 44.4 11.2 Theor. Amplitude 0.365 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 42.1 19.6 Search (2048X64) 0.350 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 90.7 13.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 114.9 22.6 Inc. seg. avg. 0.495 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 i: az 286.6 el 62.3 pa 84.7 Y: az 280.2 el 62.9 pa 77.1 u,v (fr/asec) 164.667 -508.882 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/iY...1305JH Output file: /Exps/c192a/v2/1234/No0001/iY.W.214.1305JH simultaneous interpolator

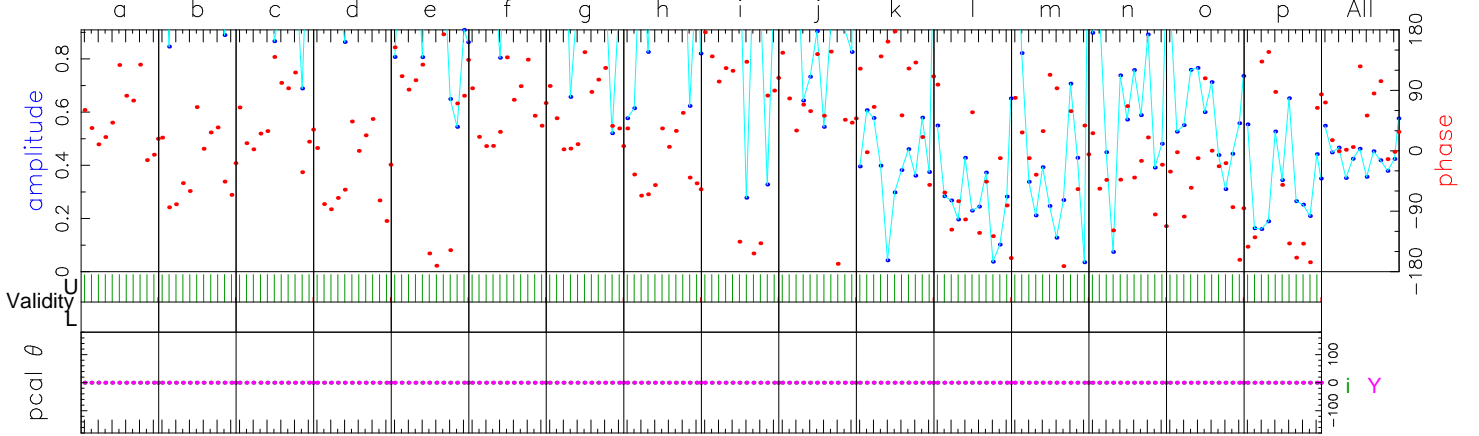


Fringe quality 9

SNR 14.7
 Int time 313.918
 Amp 0.303
 Phase 39.6
 PFD 4.6e-40
 Delays (us)
 SBD 0.008113
 MBD -0.006107
 Fringe rate (Hz)
 0.006885
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183145.47
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:083:003228
 2020:093:042825
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

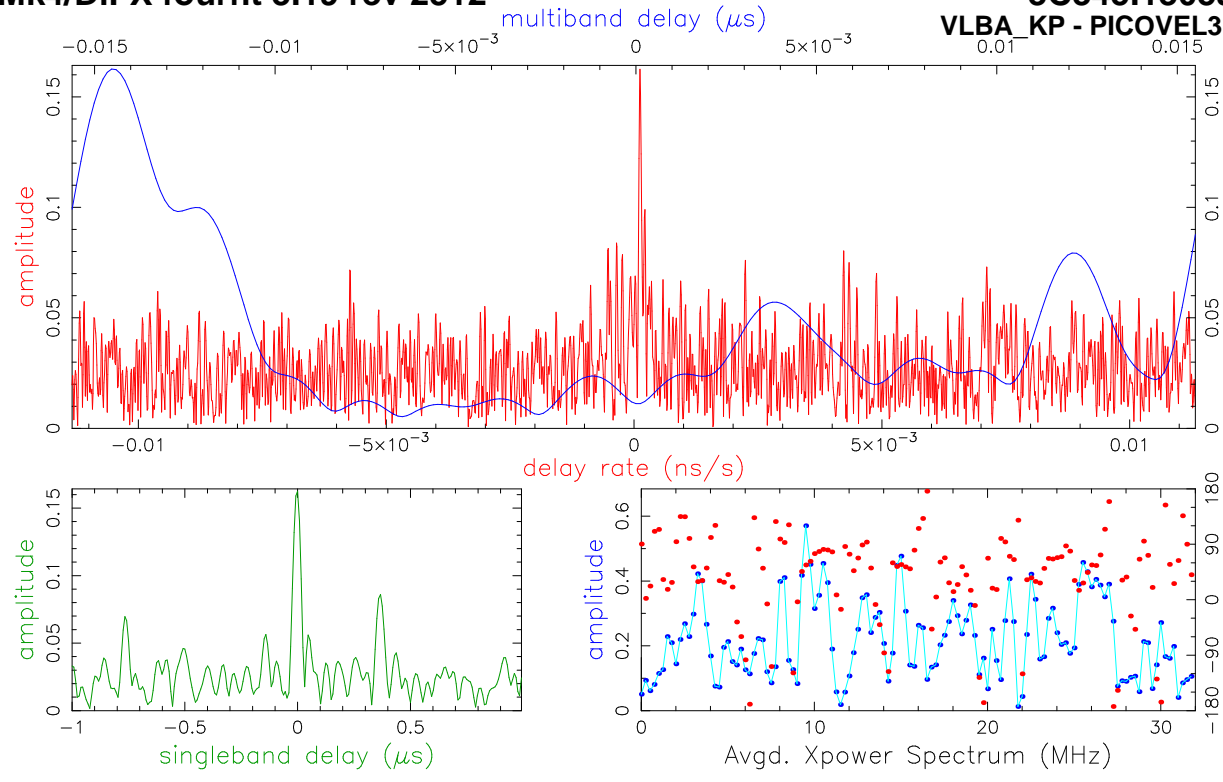
Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All					
	49.1	-24.8	47.3	-34.5	141.1	63.3	67.1	-14.0	147.5	84.0	78.1	-82.2	45.8	-21.3	-35.0	-169.5		Phase	39.6				
	1.0	0.9	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.6	0.2	0.1	0.3	0.5	0.4	0.1		Ampl.	0.6				
	129.7	129.1	129.0	129.1	129.2	129.0	129.5	129.5	129.6	129.8	48.0	82.8	130.3	129.9	128.8	244.6		Sbd box	130.0				
UL	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0		APs used					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs					
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC phase					
i:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		ManI PC					
i:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC amp					
Y	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000							
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids					
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks					
Group delay (usec)(sbd)			-1.06401344757E+02															Apriori delay (usec)	-1.06395238026E+02	Resid mbdelay (usec)	-6.10673E-03	+/-	7.3E-05
Sband delay (usec)			-1.06387124526E+02															Apriori clock (usec)	-1.0140948E+01	Resid sbdelay (usec)	8.11350E-03	+/-	1.2E-03
Phase delay (usec)			-1.06395236750E+02															Apriori clockrate (us/s)	-5.7299998E-07	Resid phdelay (usec)	1.27629E-06	+/-	2.5E-07
Delay rate (us/s)			-2.28605263694E-02															Apriori rate (us/s)	-2.28606062926E-02	Resid rate (us/s)	7.99232E-08	+/-	1.4E-09
Total phase (deg)			-249.7															Apriori accel (us/s/s)	-2.87098733080E-06	Resid phase (deg)	39.6	+/-	7.8

ph/seg (deg) RMS Theor. Amplitude 0.303 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 46.4 13.5 Search (2048X64) 0.296 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 46.5 23.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 78.5 15.6 Inc. seg. avg. 0.421 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 126.8 27.2 Inc. frq. avg. 0.553 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

i: az 286.6 el 62.3 pa 84.7 Y: az 280.2 el 62.9 pa 77.1 u,v (fr/asec) 164.667 -508.882 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/iY..1305JH Output file: /Exps/c192a/v2/1234/No0001/iY.W.229.1305JH

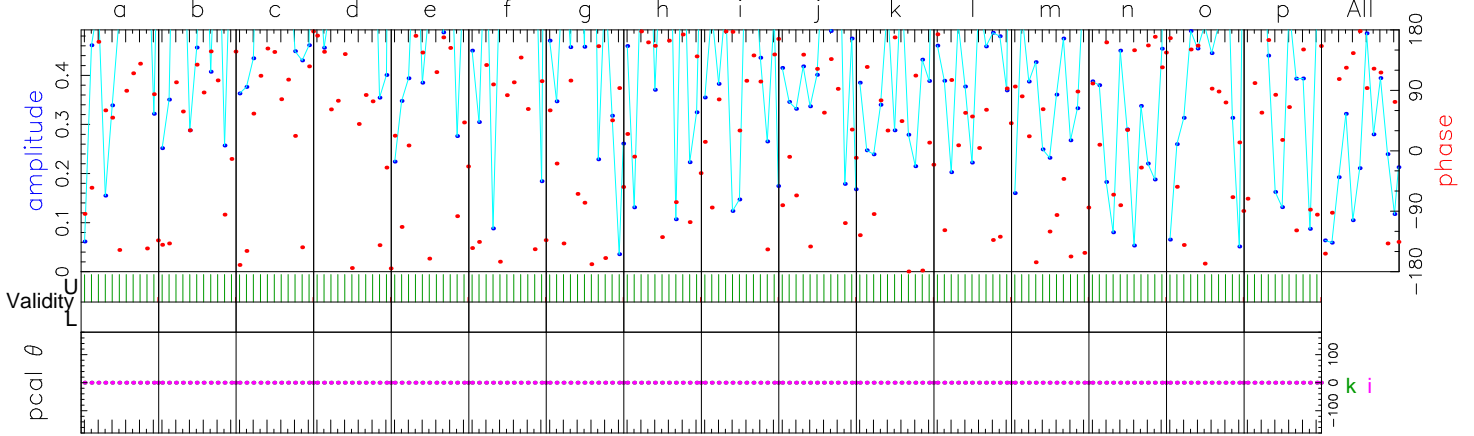


Fringe quality 9

SNR 8.0
Int time 314.116
Amp 0.164
Phase 127.7
PFD 5.8e-07
Delays (us)
SBD -0.002795
MBD -0.014534
Fringe rate (Hz)
0.010789
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042810
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

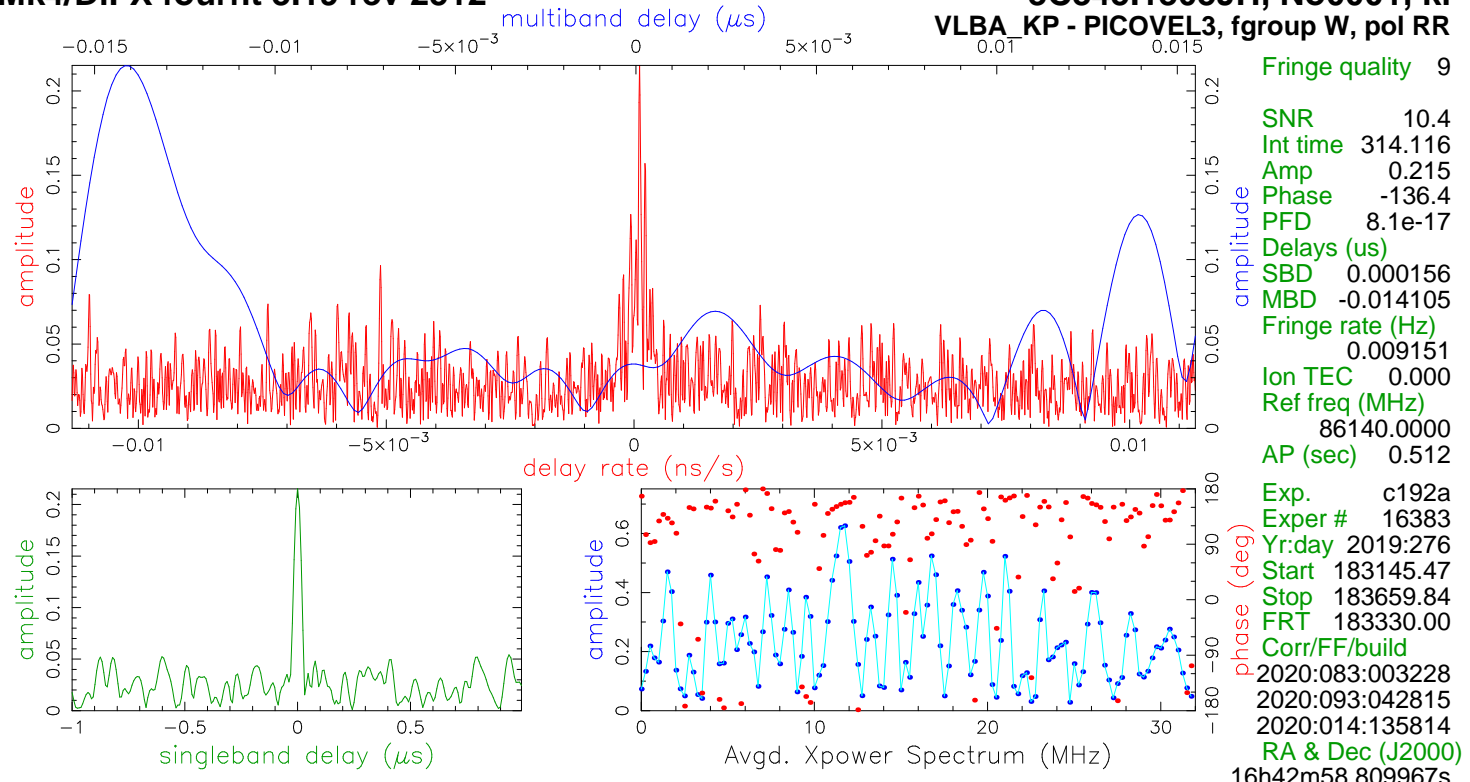
Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



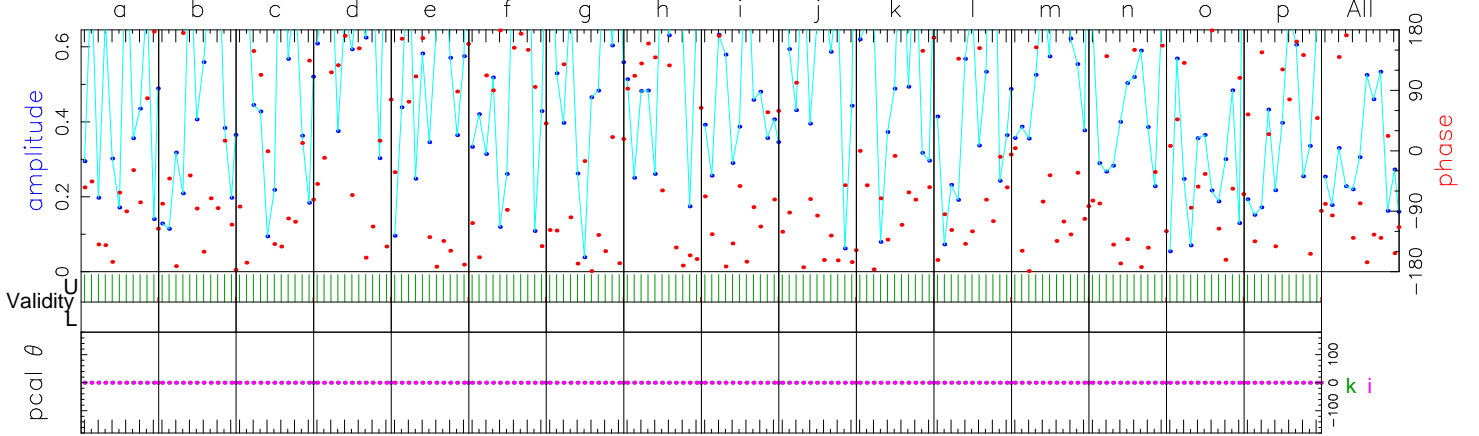
	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	128.9	93.1	120.4	108.2	147.8	142.6	-137.4	176.3	130.9	86.6	86.7	56.5	-164.8	93.6	131.0	106.0	Phase	127.7
	0.3	0.3	0.4	0.4	0.2	0.3	0.2	0.3	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	Ampl.	0.2
	127.8	129.0	128.7	129.5	145.4	128.3	57.4	128.0	194.2	106.6	26.4	42.2	228.6	110.2	116.6	82.2	Sbd box	128.6
UL	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
ki	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
ki	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	
																	Chan ids	
																	Tracks	
Group delay (usec)(sbd)			-7.23868556405E+03					Apriori delay (usec)		-7.23867103012E+03			Resid mbdelay (usec)			-1.45339E-02	+/-	1.4E-04
Sband delay (usec)			-7.23867382562E+03					Apriori clock (usec)		8.7047599E-02			Resid sbdelay (usec)			-2.79550E-03	+/-	2.2E-03
Phase delay (usec)			-7.23867102600E+03					Apriori clockrate (us/s)		1.5842101E-07			Resid phdelay (usec)			4.11955E-06	+/-	4.6E-07
Delay rate (us/s)			1.52657884310E+00					Apriori rate (us/s)		1.52657871785E+00			Resid rate (us/s)			1.25251E-07	+/-	2.6E-09
Total phase (deg)					-64.8			Apriori accel (us/s/s)		3.31843554813E-05			Resid phase (deg)			127.7	+/-	14.4

ph/seg (deg) RMS Theor. Amplitude 0.164 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 62.7 24.9 Search (2048X64) 0.160 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 87.4 43.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 44.9 28.8 Inc. seg. avg. 0.205 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 70.9 50.2 Inc. frq. avg. 0.173 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

k: az 60.1 el 32.1 pa -73.4 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -11319.294 1807.302 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/ki..1305JH Output file: /Exps/c192a/v2/1234/No0001/ki.W.173.1305JH



Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec

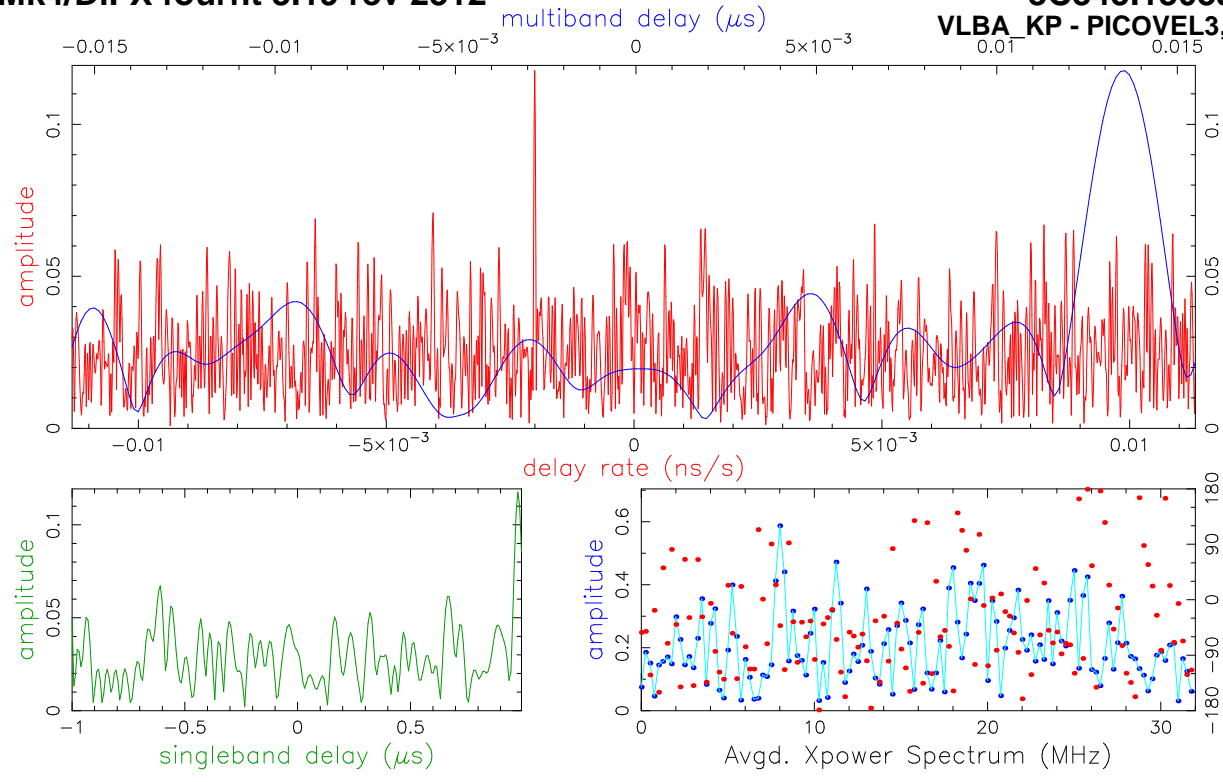


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
	-84.6	-82.5	-136.0	-154.2	174.2	163.3	-139.0	174.8	-130.4	-138.5	-80.8	-113.2	-106.2	-152.2	-51.5	109.1	Phase	-136.4	
	0.2	0.3	0.3	0.2	0.3	0.4	0.4	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.1	0.2	Ampl.	0.3	
	214.9	129.7	128.6	61.3	128.4	127.9	128.9	128.2	129.0	129.2	128.9	130.3	128.1	128.9	63.6	153.2	Sbd box	129.0	
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used		
k	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
ki	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
ki	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC		
k	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids		
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks		
																	Chan ids		
																	Tracks		
Group delay (usec)(sbd)			-7.23868513477E+03					Apriori delay (usec)			-7.23867103012E+03						Resid mbdelay (usec)	-1.41046E-02	+/- 1.0E-04
Sband delay (usec)			-7.23867087412E+03					Apriori clock (usec)			8.7047599E-02						Resid sbdelay (usec)	1.56000E-04	+/- 1.7E-03
Phase delay (usec)			-7.23867103452E+03					Apriori clockrate (us/s)			1.5842101E-07						Resid phdelay (usec)	-4.39834E-06	+/- 3.5E-07
Delay rate (us/s)			1.52657882409E+00					Apriori rate (us/s)			1.52657871785E+00						Resid rate (us/s)	1.06235E-07	+/- 2.0E-09
Total phase (deg)								Apriori accel (us/s/s)			3.31843554813E-05						Resid phase (deg)	-136.4	+/- 11.0

RMS Theor. Amplitude 0.215 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 63.2 19.0 Search (2048X64) 0.211 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 74.7 33.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 53.1 22.0 Inc. seg. avg. 0.297 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 51.8 38.4 Inc. frq. avg. 0.266 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

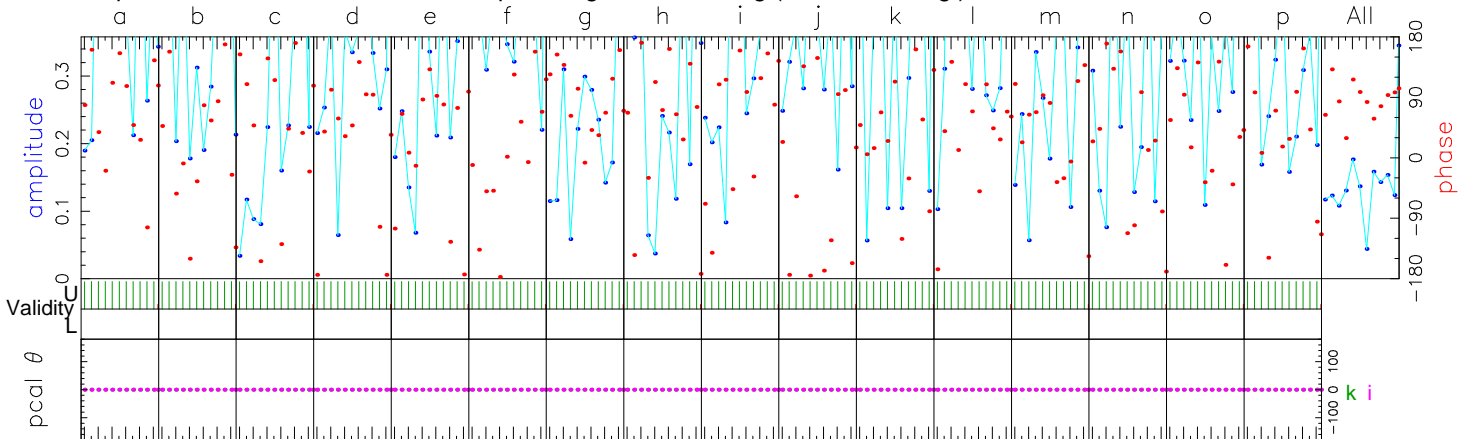
k: az 60.1 el 32.1 pa -73.4 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -11319.294 1807.302 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/ki..1305JH Output file: /Exps/c192a/v2/1234/No0001/ki.W.192.1305JH



Fringe quality 0
SNR 5.7
Int time 314.116
Amp 0.119
Phase 86.5
PFD 9.4e-01
Delays (us)
SBD 0.977557
MBD 0.013506
Fringe rate (Hz)
-0.172667
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042819
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

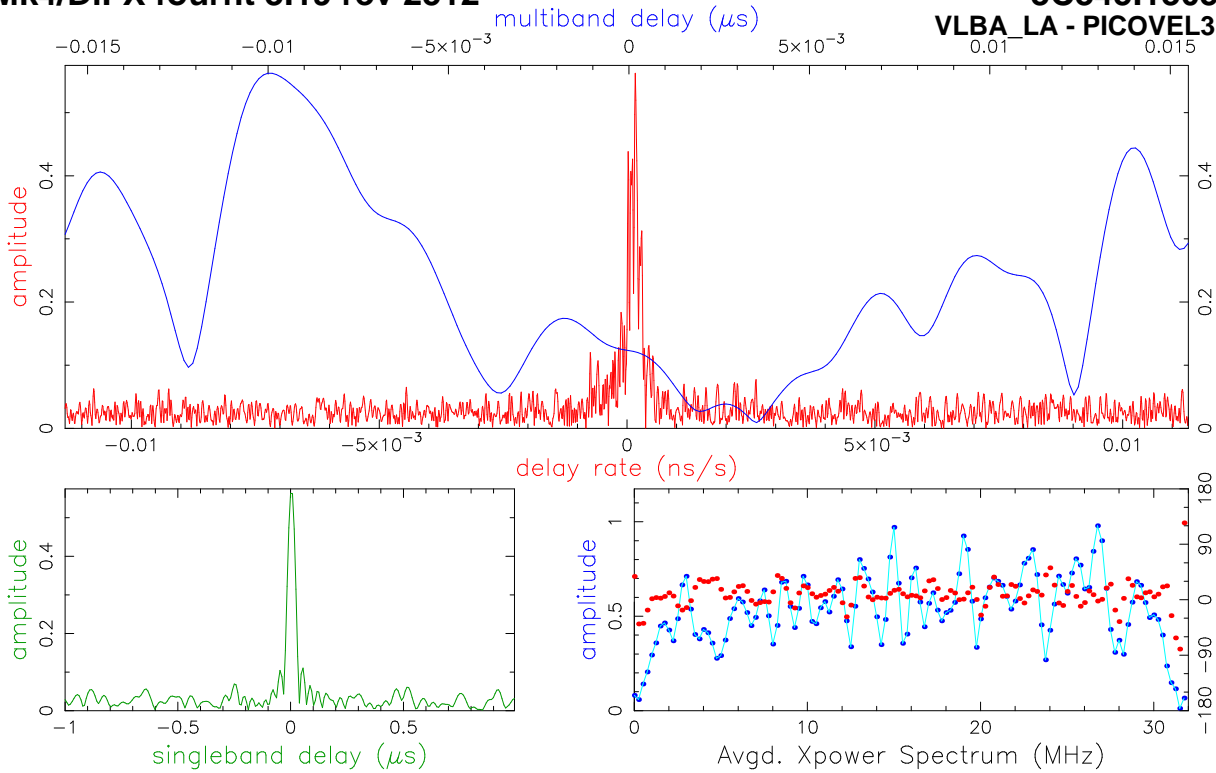
Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	86524.00	86556.00	86588.00	86620.00	86652.00	86684.00	86716.00	86748.00	86780.00	86812.00	86844.00	86876.00	86908.00	86940.00	86972.00	87004.00	87036.00	87068.00	87100.00	87132.00	87164.00	87196.00	87228.00	87260.00	87292.00	87324.00	87356.00	87388.00	87420.00	87452.00	87484.00	87516.00	87548.00	87580.00	87612.00	87644.00	87676.00	87708.00	87740.00	87772.00	87804.00	87836.00	87868.00	87900.00	87932.00	87964.00	87996.00	88028.00	88060.00	88092.00	88124.00	88156.00	88188.00	88220.00	88252.00	88284.00	88316.00	88348.00	88380.00	88412.00	88444.00	88476.00	88508.00	88540.00	88572.00	88604.00	88636.00	88668.00	88700.00	88732.00	88764.00	88796.00	88828.00	88860.00	88892.00	88924.00	88956.00	88988.00	89020.00	89052.00	89084.00	89116.00	89148.00	89180.00	89212.00	89244.00	89276.00	89308.00	89340.00	89372.00	89404.00	89436.00	89468.00	89500.00	89532.00	89564.00	89596.00	89628.00	89660.00	89692.00	89724.00	89756.00	89788.00	89820.00	89852.00	89884.00	89916.00	89948.00	89980.00	90012.00	90044.00	90076.00	90108.00	90140.00	90172.00	90204.00	90236.00	90268.00	90300.00	90332.00	90364.00	90396.00	90428.00	90460.00	90492.00	90524.00	90556.00	90588.00	90620.00	90652.00	90684.00	90716.00	90748.00	90780.00	90812.00	90844.00	90876.00	90908.00	90940.00	90972.00	91004.00	91036.00	91068.00	91100.00	91132.00	91164.00	91196.00	91228.00	91260.00	91292.00	91324.00	91356.00	91388.00	91420.00	91452.00	91484.00	91516.00	91548.00	91580.00	91612.00	91644.00	91676.00	91708.00	91740.00	91772.00	91804.00	91836.00	91868.00	91900.00	91932.00	91964.00	91996.00	92028.00	92060.00	92092.00	92124.00	92156.00	92188.00	92220.00	92252.00	92284.00	92316.00	92348.00	92380.00	92412.00	92444.00	92476.00	92508.00	92540.00	92572.00	92604.00	92636.00	92668.00	92700.00	92732.00	92764.00	92796.00	92828.00	92860.00	92892.00	92924.00	92956.00	92988.00	93020.00	93052.00	93084.00	93116.00	93148.00	93180.00	93212.00	93244.00	93276.00	93308.00	93340.00	93372.00	93404.00	93436.00	93468.00	93500.00	93532.00	93564.00	93596.00	93628.00	93660.00	93692.00	93724.00	93756.00	93788.00	93820.00	93852.00	93884.00	93916.00	93948.00	93980.00	94012.00	94044.00	94076.00	94108.00	94140.00	94172.00	94204.00	94236.00	94268.00	94300.00	94332.00	94364.00	94396.00	94428.00	94460.00	94492.00	94524.00	94556.00	94588.00	94620.00	94652.00	94684.00	94716.00	94748.00	94780.00	94812.00	94844.00	94876.00	94908.00	94940.00	94972.00	95004.00	95036.00	95068.00	95100.00	95132.00	95164.00	95196.00	95228.00	95260.00	95292.00	95324.00	95356.00	95388.00	95420.00	95452.00	95484.00	95516.00	95548.00	95580.00	95612.00	95644.00	95676.00	95708.00	95740.00	95772.00	95804.00	95836.00	95868.00	95900.00	95932.00	95964.00	95996.00	96028.00	96060.00	96092.00	96124.00	96156.00	96188.00	96220.00	96252.00	96284.00	96316.00	96348.00	96380.00	96412.00	96444.00	96476.00	96508.00	96540.00	96572.00	96604.00	96636.00	96668.00	96700.00	96732.00	96764.00	96796.00	96828.00	96860.00	96892.00	96924.00	96956.00	96988.00	97020.00	97052.00	97084.00	97116.00	97148.00	97180.00	97212.00	97244.00	97276.00	97308.00	97340.00	97372.00	97404.00	97436.00	97468.00	97500.00	97532.00	97564.00	97596.00	97628.00	97660.00	97692.00	97724.00	97756.00	97788.00	97820.00	97852.00	97884.00	97916.00	97948.00	97980.00	98012.00	98044.00	98076.00	98108.00	98140.00	98172.00	98204.00	98236.00	98268.00	98300.00	98332.00	98364.00	98396.00	98428.00	98460.00	98492.00	98524.00	98556.00	98588.00	98620.00	98652.00	98684.00	98716.00	98748.00	98780.00	98812.00	98844.00	98876.00	98908.00	98940.00	98972.00	99004.00	99036.00	99068.00	99100.00	99132.00	99164.00	99196.00	99228.00	99260.00	99292.00	99324.00	99356.00	99388.00	99420.00	99452.00	99484.00	99516.00	99548.00	99580.00	99612.00	99644.00	99676.00	99708.00	99740.00	99772.00	99804.00	99836.00	99868.00	99900.00	99932.00	99964.00	99996.00	100028.00	100060.00	100092.00	100124.00	100156.00	100188.00	100220.00	100252.00	100284.00	100316.00	100348.00	100380.00	100412.00	100444.00	100476.00	100508.00	100540.00	100572.00	100604.00	100636.00	100668.00	100700.00	100732.00	100764.00	100796.00	100828.00	100860.00	100892.00	100924.00	100956.00	100988.00	101020.00	101052.00	101084.00	101116.00	101148.00	101180.00	101212.00	101244.00	101276.00	101308.00	101340.00	101372.00	101404.00	101436.00	101468.00	101500.00	101532.00	101564.00	101596.00	101628.00	101660.00	101692.00	101724.00	101756.00	101788.00	101820.00	101852.00	101884.00	101916.00	101948.00	101980.00	102012.00	102044.00	102076.00	102108.00	102140.00	102172.00	102204.00	102236.00	102268.00	102300.00	102332.00	102364.00	102396.00	102428.00	102460.00	102492.00	102524.00	102556.00	102588.00	102620.00	102652.00	102684.00	102716.00	102748.00	102780.00	102812.00	102844.00	102876.00	102908.00	102940.00	102972.00	103004.00	103036.00	103068.00	103100.00	103132.00	103164.00	103196.00	103228.00	103260.00	103292.00	103324.00	103356.00	103388.00	103420.00	103452.00	103484.00	103516.00	103548.00	103580.00	103612.00	103644.00	103676.00	103708.00	103740.00	103772.00	103804.00	103836.00	103868.00	103900.00	103932.00	103964.00	103996.00	104028.00	104060.00	104092.00	104124.00	104156.00	104188.00	104220.00	104252.00	104284.00	104316.00	104348.00	104380.00	104412.00	104444.00	104476.00	104508.00	104540.00	104572.00	104604.00	104636.00	104668.00	104700.00	104732.00	104764.00	104796.00	104828.00	104860.00	104892.00	104924.00	104956.00	104988.00	105020.00	105052.00	105084.00	105116.00	105148.00	105180.00	105212.00	105244.00	105276.00	105308.00	105340.00	105372.00	105404.00	105436.00	105468.00	105500.00	105532.00	105564.00	105596.00	105628.00	105660.00	105692.00	105724.00	105756.00	105788.00	105820.00	105852.00	105884.00	105916.00	105948.00	105980.00	106012.00	106044.00	106076.00	106108.00	106140.00	106172.00	106204.00	106236.00	106268.00	106300.00	106332.00	106364.00	106396.00	106428.00	106460.00	106492.00	106524.00	106556.00	106588.00	106620.00	106652.00	106684.00	106716.00	106748.00	106780.00	106812.00	106844.00	106876.00	106908.00	106940.00	106972.00	107004.00	107036.00	107068.00	107100.00	107132.00	107164.00	107196.00	107228.00	107260.00	107292.00	107324.00	107356.00	107388.00	107420.00	107452.00	107484.00	107516.00	107548.00	107580.00	107612.00	107644.00	107676.00	107708.00	107740.00	107772.00	107804.00	107836.00	107868.00	107900.00	107932.00	107964.00	107996.00	108028.00	108060.00	108092.00	108124.00	108156.00	108188.00	108220.00	108252.00	108284.00	108316.00	108348.00	108380.00	108412.00	108444.00	108476.00	108508.00	108540.00	108572.00	108604.00	108636.00	108668.00	108700.00	108732.00	108764.00	108796.00	108828.00	108860.00	108892.00	108924.00	108956.00	108988.00	109020.00	109052.00	109084.00	109116.00	109148.00	109180.00	109212.00	109244.00	109276.00	109308.00	109340.00	109372.00	109404.00	109436.00	109468.00	109500.00	109532.00	109564.00	109596.00	109628.00	109660.00	109692.00	109724.00	109756.00	109788.00	109820.00	109852.00	109884.00	109916.00	109948.00	109980.00	110012.00	110044.00	110076.00	110108.00	110140.00	110172.00	110204.00	110236.00	110268.00	110300.00	110332.00	110364.00	110396.00	110428.00	110460.00	110492.00	110524.00	110556.00	110588.00	110620.00	110652.00	110684.00	110716.00	110748.00	110780.00	110812.00	110844.00	110876.00	110908.00	110940.00	110972.00	111004.00	111036.00	111068.00	111100.00	111132.00	111164.00	111196.00	111228.00	111260.00	111292.00	111324.00	111356.00	111388.00	111420.00	111452.00	111484.00	111516.00	111548.00	111580.00	111612.00	111644.00	111676.00	111708.00	111740.00	111772.00	111804.00	111836.00	111868.00	111900.00	111932.00	111964.00	111996.00	112028.00	112060.00	112092.00	112124.00	112156.00	112188.00	112220.00	112252.00	112284.00	112316.00	112348.00	112380.00	112412.00	112444.00	112476.00	112508.00	112540.00	112572.00	112604.00	112636.00	112668.00	112700.00	112732.00	112764.00	112796.00	112828.00	112860.00	112892.00	112924.00	112956.00	112988.00	113020.00	113052.00	113084.00	113116.00
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Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, li
VLBA_LA - PICOVEL3, fgroup W, pol LL

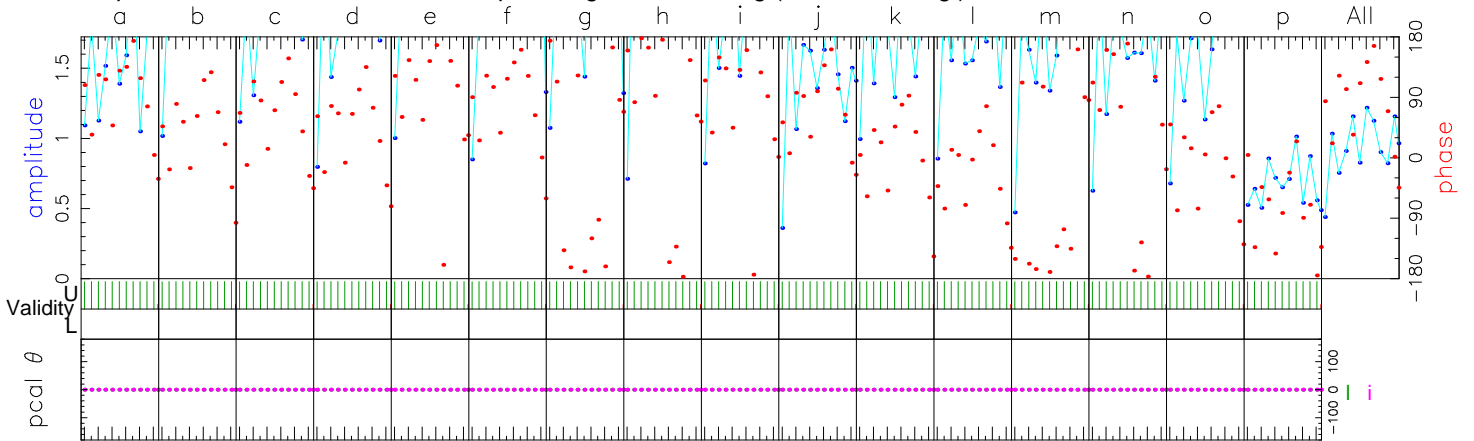


Fringe quality 5

SNR 27.9
Int time 314.116
Amp 0.575
Phase 88.5
PFD 0.0e+00
Delays (us)
SBD 0.003839
MBD -0.009993
Fringe rate (Hz) 0.014054
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

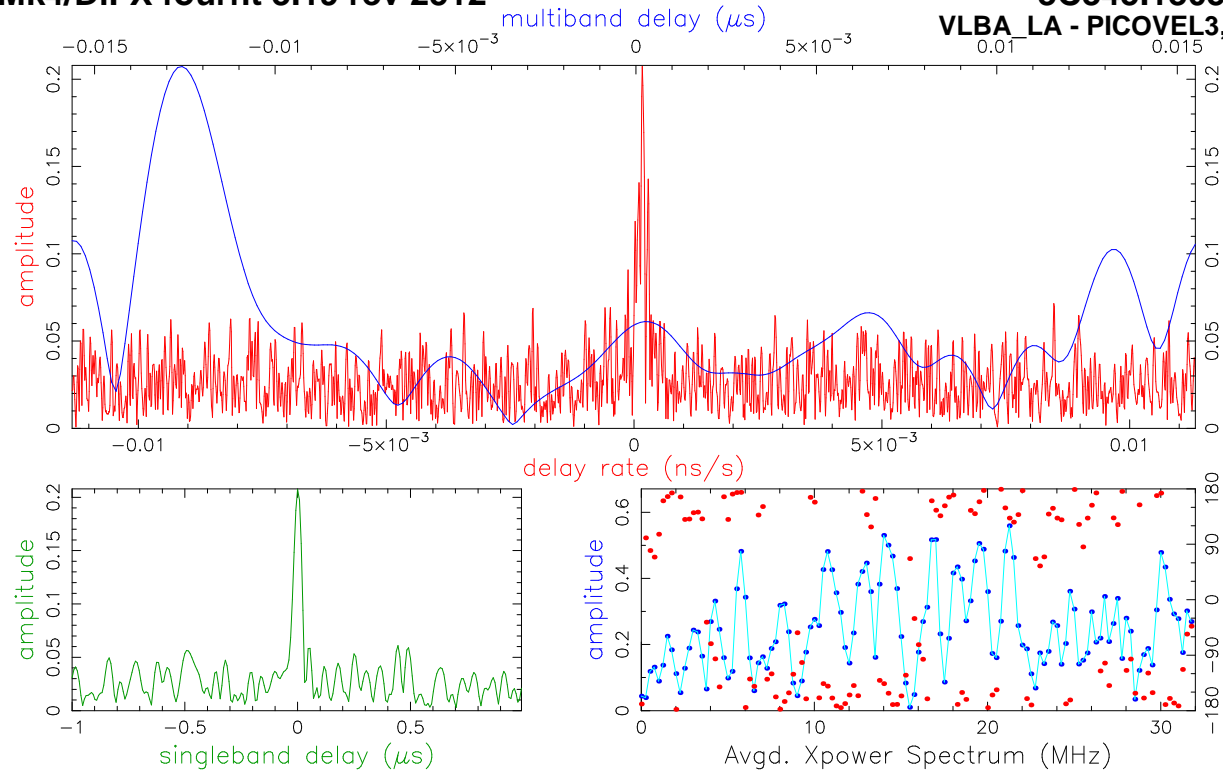
Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042815
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	94.1	43.8	64.6	48.8	117.5	94.6	-176.2	150.2	105.6	78.1	11.4	-17.3	176.6	135.6	-7.0	-67.2	Phase	88.5
i	1.0	1.2	1.2	1.2	1.3	1.4	1.2	1.4	1.1	0.9	1.0	1.0	1.0	0.9	0.4	0.4	Ampl.	1.1
i	128.1	129.6	129.6	129.2	129.5	129.5	129.6	129.4	129.4	129.0	129.2	129.7	129.2	129.1	129.0	128.0	Sbd box	129.5
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	ManI PC	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	
																	Chan ids	
																	Tracks	
Group delay (usec)(sbd)	-5.51194321969E+03			Apriori delay (usec)			-5.51193322710E+03			Resid mbdelay (usec)			-9.99259E-03			+/- 3.9E-05		
Sband delay (usec)	-5.51192938860E+03			Apriori clock (usec)			-2.5128606E-01			Resid sbdelay (usec)			3.83850E-03			+/- 6.2E-04		
Phase delay (usec)	-5.51193322425E+03			Apriori clockrate (us/s)			1.5279932E-09			Resid phdelay (usec)			2.85440E-06			+/- 1.3E-07		
Delay rate (us/s)	1.45254577421E+00			Apriori rate (us/s)			1.45254561106E+00			Resid rate (us/s)			1.63150E-07			+/- 7.3E-10		
Total phase (deg)	22.8			Apriori accel (us/s/s)			2.79932495079E-05			Resid phase (deg)			88.5			+/- 4.1		

ph/seg (deg) 51.8 7.1 Search (2048X64) 0.556 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 74.2 12.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 75.0 8.2 Inc. seg. avg. 0.935 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 95.9 14.4 Inc. frq. avg. 1.055 Sample rate(MSamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 I: az 63.9 el 37.8 pa -72.0 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -10775.658 1837.797 ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/li.1305JH Output file: /Exps/c192a/v2/1234/No0001/li.W.191.1305JH simultaneous interpolator

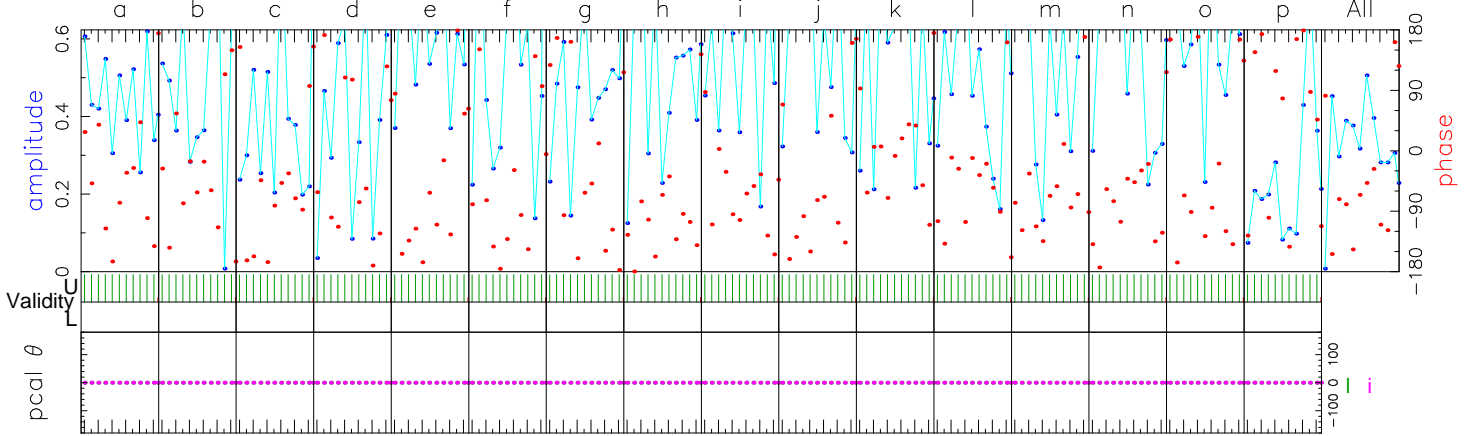


Fringe quality 9

SNR 10.1
Int time 314.116
Amp 0.208
Phase -96.8
PFD 3.1e-15
Delays (us)
SBD 0.001481
MBD -0.012597
Fringe rate (Hz) 0.014356
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Yr:day 2019:276
Exper # 16383
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build 2020:083:003228
2020:093:042824
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec

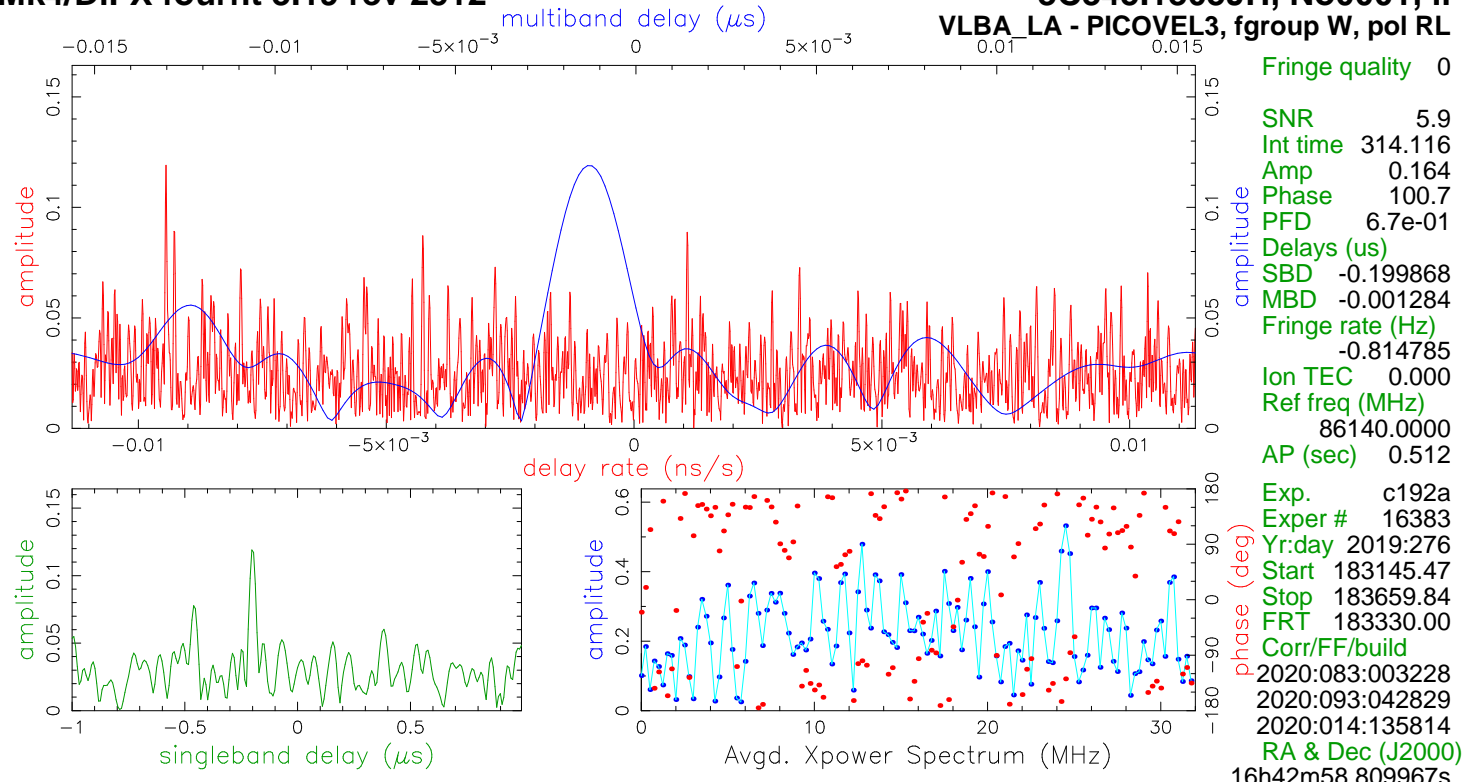


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All					
	-56.6	-78.2	-101.2	-146.9	-130.5	-124.4	-126.9	-115.9	-77.8	-121.3	-11.6	-70.5	-79.3	-80.8	-136.1	127.9	Phase	-96.8					
	0.2	0.2	0.2	0.1	0.3	0.2	0.2	0.4	0.3	0.4	0.4	0.2	0.4	0.4	0.4	0.1	Ampl.	0.2					
	22.4	4.8	40.9	152.4	129.2	230.2	132.0	129.9	128.1	128.9	129.1	183.4	128.9	128.1	129.2	127.1	Sbd box	129.2					
UL	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used						
l	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs						
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase						
li	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC						
li	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp						
l	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids						
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Tracks						
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids						
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks						
Group delay (usec)(sbd)			-5.51194582444E+03														Apriori delay (usec)	-5.51193322710E+03	Resid mbdelay (usec)	-1.25973E-02	+/-	1.1E-04	
Sband delay (usec)			-5.51193174560E+03															Apriori clock (usec)	-2.5128606E-01	Resid sbdelay (usec)	1.48150E-03	+/-	1.7E-03
Phase delay (usec)			-5.51193323023E+03															Apriori clockrate (us/s)	1.5279932E-09	Resid phdelay (usec)	-3.12269E-06	+/-	3.7E-07
Delay rate (us/s)			1.45254577772E+00															Apriori rate (us/s)	1.45254561106E+00	Resid rate (us/s)	1.66664E-07	+/-	2.0E-09
Total phase (deg)																		Apriori accel (us/s/s)	2.79932495079E-05	Resid phase (deg)	-96.8	+/-	11.4

ph/seg (deg) 73.7 19.7 Search (2048X64) 0.206 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 82.2 34.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 51.4 22.7 Inc. seg. avg. 0.309 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
amp/frq (%) 52.9 39.7 Inc. frq. avg. 0.249 Sample rate(MSamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
I: az 63.9 el 37.8 pa -72.0 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -10775.658 1837.797 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/li..1305JH Output file: /Exps/c192a/v2/1234/No0001/li.W.226.1305JH

Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, li
VLBA_LA - PICOVEL3, fgroup W, pol RL



Fringe quality 0

SNR 5.9

Int time 314.116

Amp 0.164

Phase 100.7

PFD 6.7e-01

Delays (us)

SBD -0.199868

MBD -0.001284

Fringe rate (Hz)

-0.814785

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c192a

Exper # 16383

Yr:day 2019:276

Start 183145.47

Stop 183659.84

FRT 183330.00

Corr/FF/build

2020:083:003228

2020:093:042829

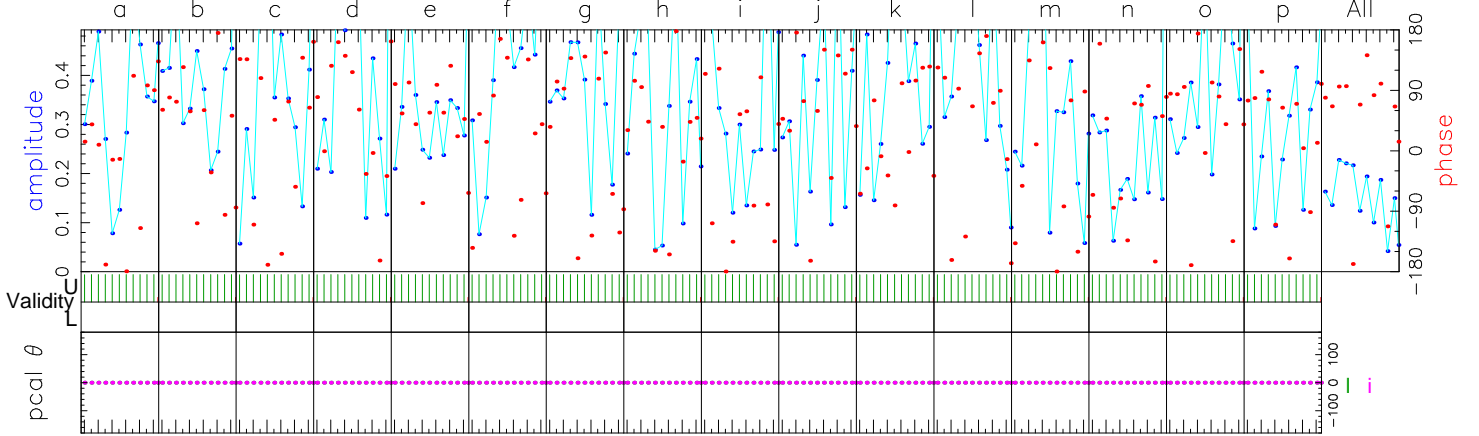
2020:014:135814

RA & Dec (J2000)

16h42m58.809967s

+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
li	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
li	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
W	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		
U	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		
Group delay (usec)(sbd)		-5.51212201119E+03																
Sband delay (usec)		-5.51213309460E+03																
Phase delay (usec)		-5.51193322385E+03																
Delay rate (us/s)		1.45253615221E+00																
Total phase (deg)					35.0													
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(MSamp/s): 64																		
Data rate(Mb/s): 2048																		
PCal period (AP's) 5, 5																		
sb window (us)																		
mb window (us)																		
dr window (ns/s)																		
ion window (TEC)																		

ph/seg (deg) 57.6 33.8 Search (2048X64) 0.116 PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5

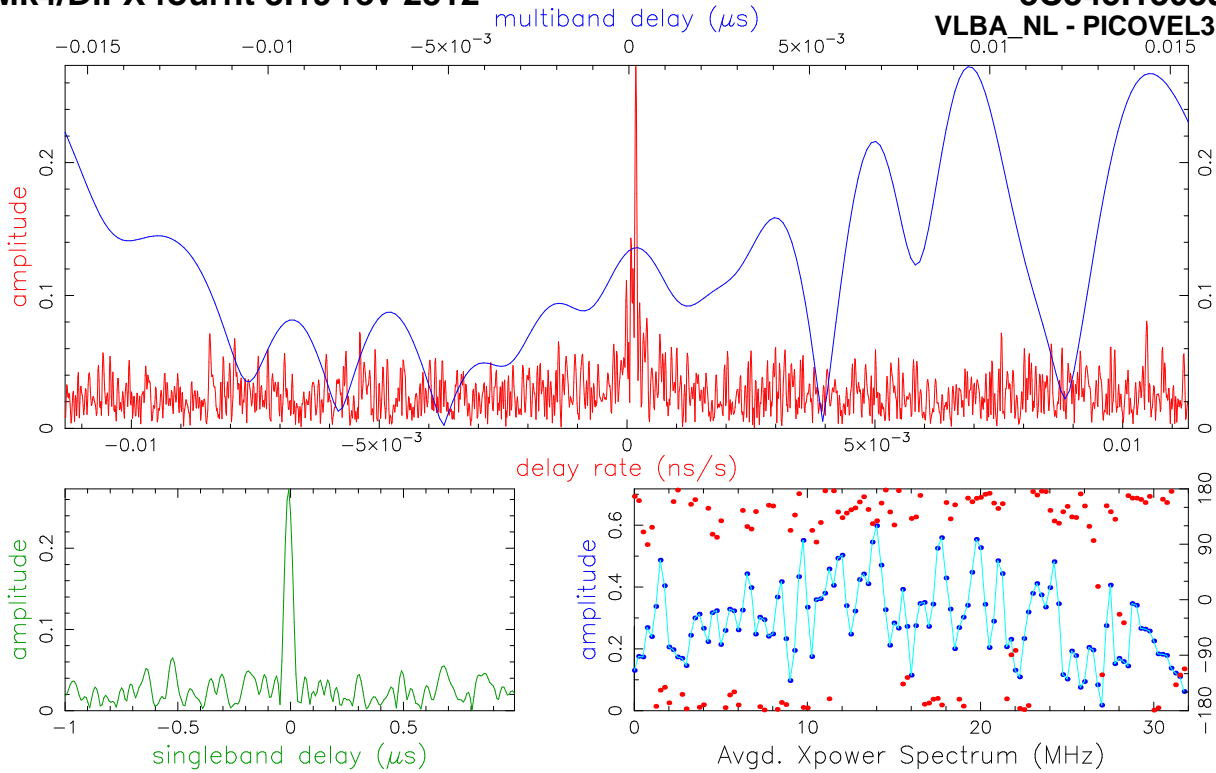
amp/seg (%) 55.6 59.0 Interp. 0.000 PCal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 46.7 39.0 Inc. seg. avg. 0.183 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 49.4 68.1 Inc. frq. avg. 0.161 Sample rate(MSamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011

l: az 63.9 el 37.8 pa -72.0 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -10775.658 1837.797 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/li..1305JH Output file: /Exps/c192a/v2/1234/No0001/li.W.246.1305JH

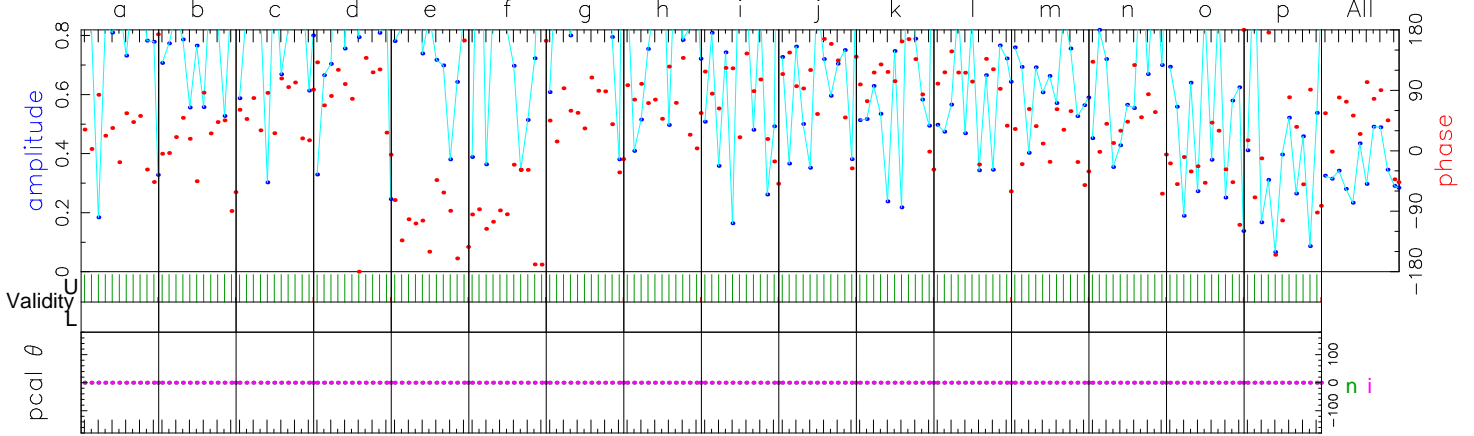


Fringe quality 9

SNR 13.2
Int time 314.116
Amp 0.273
Phase 55.7
PFD 3.0e-31
Delays (us)
SBD -0.009399
MBD 0.009419
Fringe rate (Hz) 0.014939
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042829
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All					
UL	19.7	12.6	58.4	106.6	-112.8	-101.3	62.3	70.3	84.1	106.8	116.1	104.7	18.1	44.7	-28.2	-56.4		Phase	55.7				
n	0.7	0.5	0.7	0.7	0.6	0.5	0.8	0.7	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.2		Ampl.	0.5				
i	127.2	129.0	128.3	128.2	128.2	128.6	128.3	128.0	128.2	127.8	129.1	128.8	128.1	127.0	128.5	125.9		Sbd box	127.8				
n	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0		APs used					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs					
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC phase					
n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC					
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp					
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000							
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Chan ids					
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks					
																		Chan ids					
																		Tracks					
Group delay (usec)(sbd)			-2.12457358081E+03															Apriori delay (usec)	-2.12455174932E+03	Resid mbdelay (usec)	9.41850E-03	+/-	8.2E-05
Sband delay (usec)			-2.12456114782E+03															Apriori clock (usec)	2.6964306E+01	Resid sbdelay (usec)	-9.39850E-03	+/-	1.3E-03
Phase delay (usec)			-2.12455174752E+03															Apriori clockrate (us/s)	4.8722349E-07	Resid phdelay (usec)	1.79602E-06	+/-	2.8E-07
Delay rate (us/s)			1.26460305151E+00															Apriori rate (us/s)	1.26460287808E+00	Resid rate (us/s)	1.73429E-07	+/-	1.5E-09
Total phase (deg)					-191.3													Apriori accel (us/s/s)	1.60013151196E-05	Resid phase (deg)	55.7	+/-	8.7

ph/seg (deg) 42.7 15.0
amp/seg (%) 40.7 26.2
ph/frq (deg) 80.0 17.3
amp/frq (%) 110.0 30.2

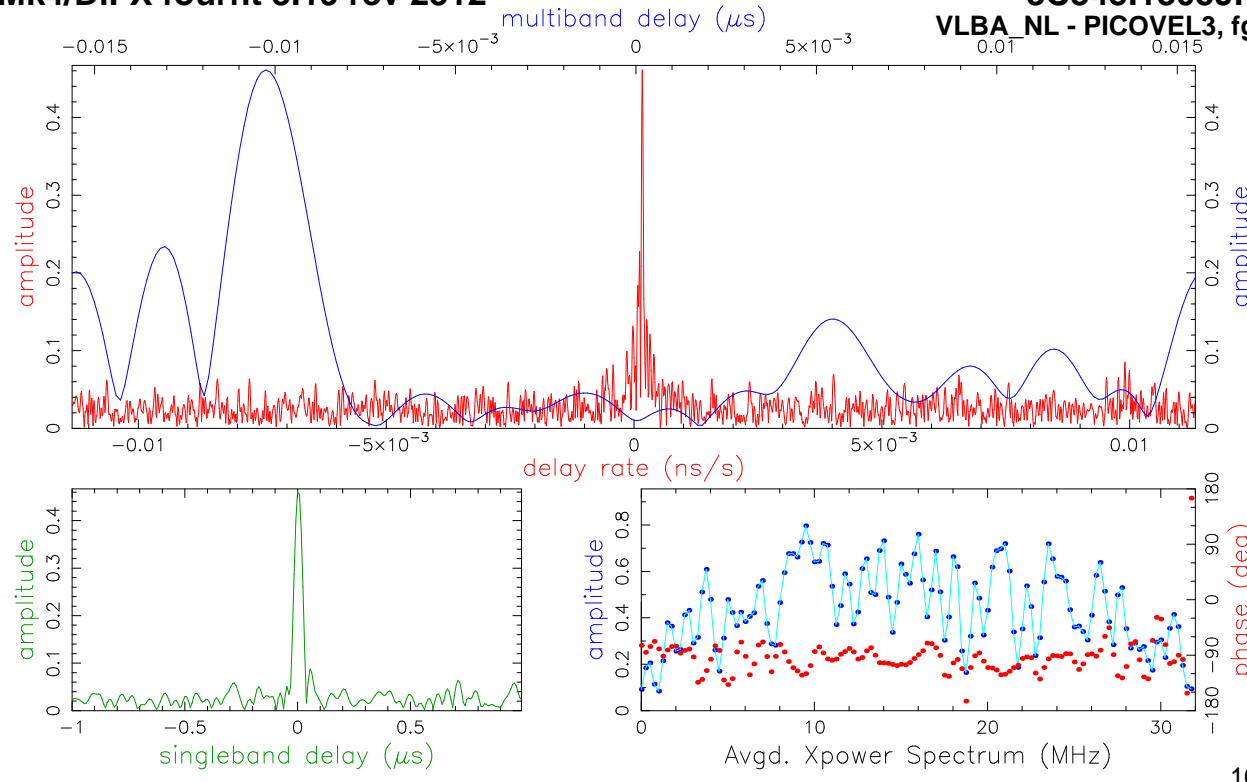
RMS Theor. Amplitude 0.273 +/- 0.021
Search (2048X64) 0.266
Interp. 0.000
Inc. seg. avg. 0.337
Inc. frq. avg. 0.511

PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
PCal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite

sb window (us) -1.000 1.000
mb window (us) -0.016 0.016
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

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

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/ni..1305JH Output file: /Exps/c192a/v2/1234/No0001/ni.W.243.1305JH

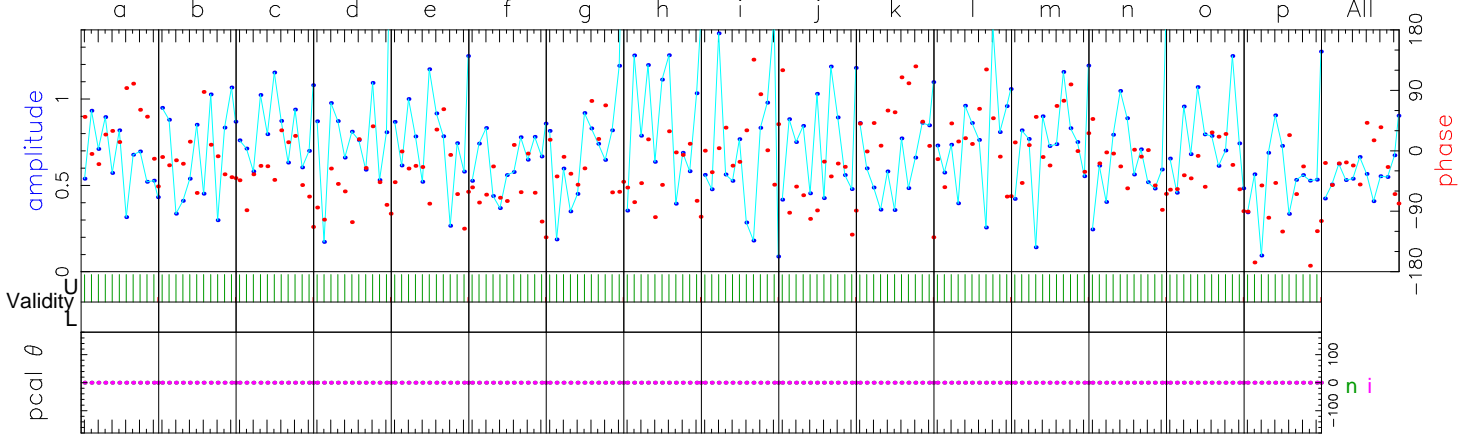


Fringe quality 7

SNR 22.6
Int time 314.116
Amp 0.467
Phase -20.1
PFD 0.0e+00
Delays (us)
SBD 0.003165
MBD -0.010239
Fringe rate (Hz) 0.014438
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build 2020:083:003228
2020:093:042834
2020:014:135814
RA & Dec (J2000) 16h42m58.809967s +39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
	28.2	-17.6	-28.1	-46.1	-30.2	-57.8	-14.0	-33.6	-2.5	-61.3	52.5	11.1	17.9	-24.2	-23.5	-92.2		Phase	-20.1
	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.6	0.5	0.6	0.7	0.3		Ampl.	0.5
	128.5	129.4	129.4	129.5	129.5	128.9	129.5	129.4	128.2	129.2	129.0	129.3	129.2	129.0	129.6	128.0		Sbd box	129.4
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0		APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs	
ni	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase	
ni	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids	
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Tracks	

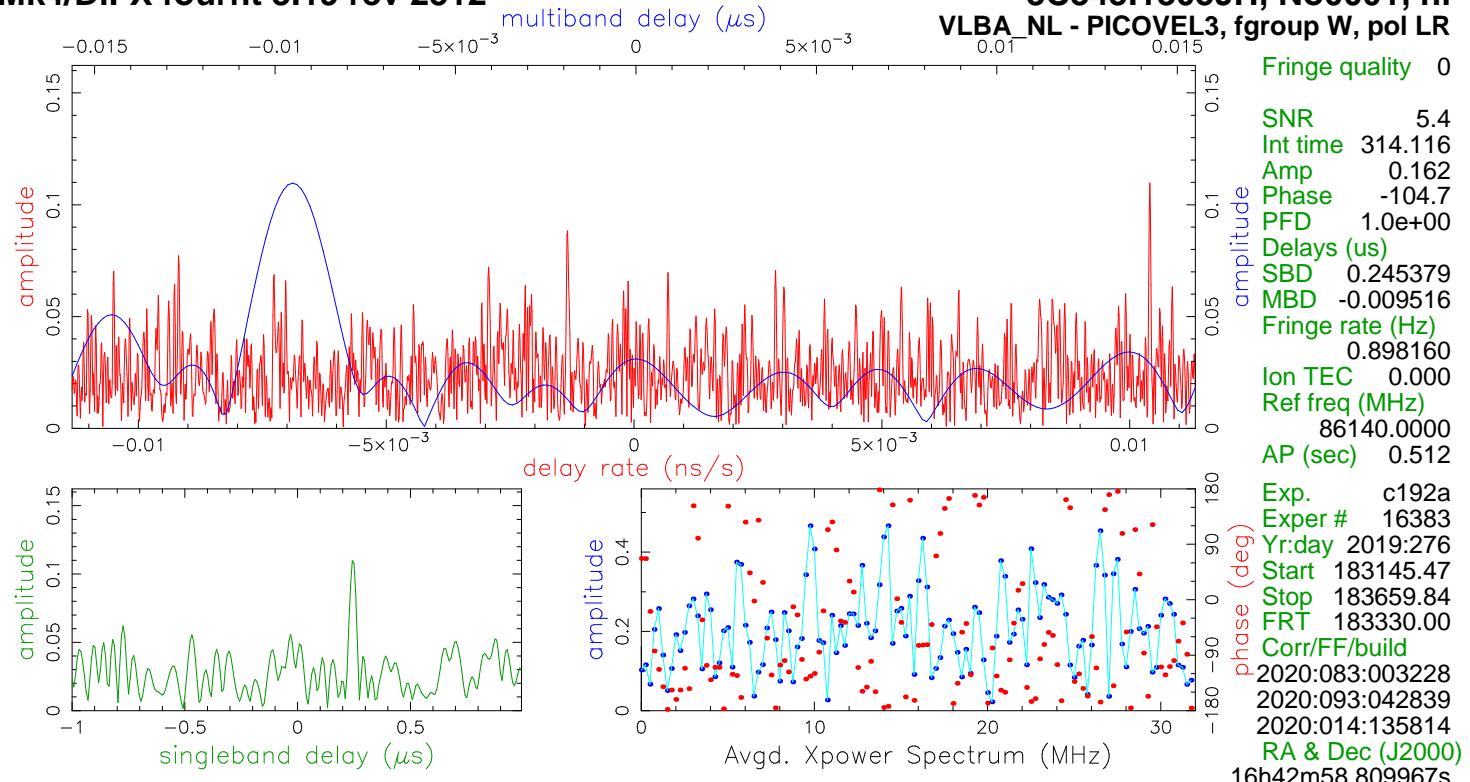
Group delay (usec)(sbd) -2.12456198866E+03 Apriori delay (usec) -2.12455174932E+03 Resid mbdelay (usec) -1.02393E-02 +/- 4.8E-05
 Sband delay (usec) -2.12454858432E+03 Apriori clock (usec) 2.6964306E+01 Resid sbdelay (usec) 3.16500E-03 +/- 7.6E-04
 Phase delay (usec) -2.12455174996E+03 Apriori clockrate (us/s) 4.8722349E-07 Resid phdelay (usec) -6.47348E-07 +/- 1.6E-07
 Delay rate (us/s) 1.26460304569E+00 Apriori rate (us/s) 1.26460287808E+00 Resid rate (us/s) 1.67614E-07 +/- 9.0E-10
 Total phase (deg) -267.1 Apriori accel (us/s/s) 1.60013151196E-05 Resid phase (deg) -20.1 +/- 5.1

RMS Theor. Amplitude 0.467 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 33.5 8.8 Search (2048X64) 0.458 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 27.0 15.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 37.6 10.1 Inc. seg. avg. 0.548 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 22.6 17.7 Inc. frq. avg. 0.533 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

n: az 74.7 el 50.6 pa -69.4 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -9394.473 1590.958 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/ni..1305JH Output file: /Exps/c192a/v2/1234/No0001/ni.W.263.1305JH

Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, ni
VLBA_NL - PICOVEL3, fgroup W, pol LR



Fringe quality 0

SNR 5.4

Int time 314.116

Amp 0.162

Phase -104.7

PFD 1.0e+00

Delays (us)

SBD 0.245379

MBD -0.009516

Fringe rate (Hz)

0.898160

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c192a

Exper # 16383

Yr:day 2019:276

Start 183145.47

Stop 183659.84

FRT 183330.00

Corr/FF/build

2020:083:003228

2020:093:042839

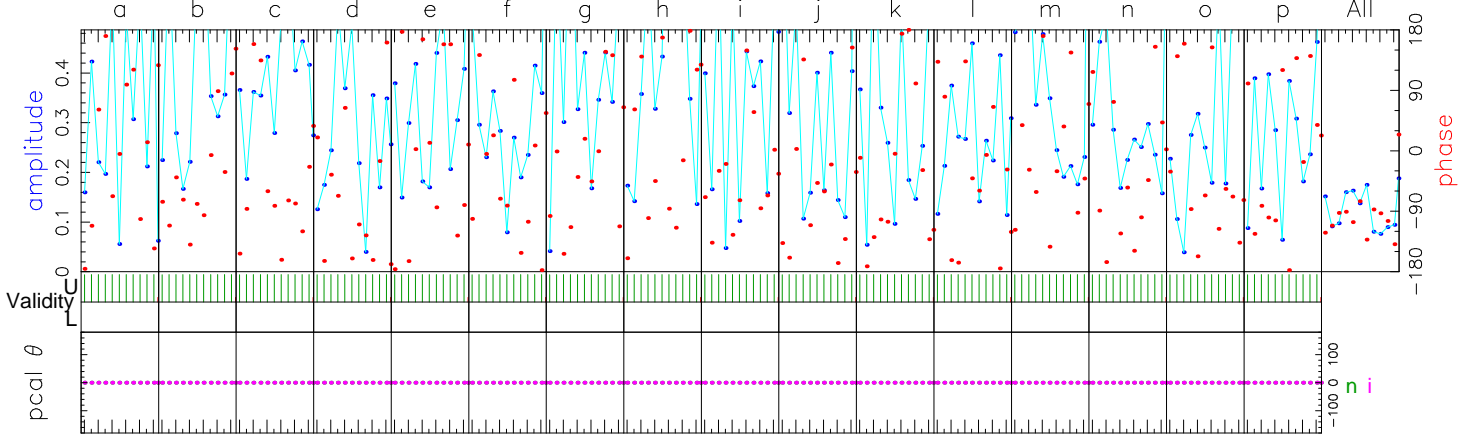
2020:014:135814

RA & Dec (J2000)

16h42m58.809967s

+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-134.8	-84.7	-106.3	-127.7	-142.6	-71.5	-72.3	-108.4	-58.4	-95.3	-124.3	-171.1	-58.1	-125.3	-104.0	-142.7	Phase	-104.7
	0.1	0.2	0.3	0.1	0.2	0.1	0.2	0.3	0.2	0.2	0.3	0.1	0.1	0.1	0.3	0.1	Ampl.	0.1
	57.5	12.9	5.1	146.2	239.7	62.0	19.9	70.2	11.2	238.8	38.5	146.4	85.7	229.0	48.3	26.3	Sbd box	160.4
UL	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used	
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
ni	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
ni	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
n	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	
																	Chan ids	
																	Tracks	
Group delay (usec)(sbd)	-2.12431126498E+03			Apriori delay (usec)			-2.12455174932E+03			Resid mbdelay (usec)			-9.51566E-03			+/- 2.0E-04		
Sband delay (usec)	-2.12430637032E+03			Apriori clock (usec)			2.6964306E+01			Resid sbdelay (usec)			2.45379E-01			+/- 3.2E-03		
Phase delay (usec)	-2.12455175269E+03			Apriori clockrate (us/s)			4.8722349E-07			Resid phdelay (usec)			-3.37714E-06			+/- 6.8E-07		
Delay rate (us/s)	1.26461330483E+00			Apriori rate (us/s)			1.26460287808E+00			Resid rate (us/s)			1.04267E-05			+/- 3.8E-09		
Total phase (deg)	-351.7			Apriori accel (us/s/s)			1.60013151196E-05			Resid phase (deg)			-104.7			+/- 21.2		

ph/seg (deg) 24.5 36.7 Search (2048X64) 0.108 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

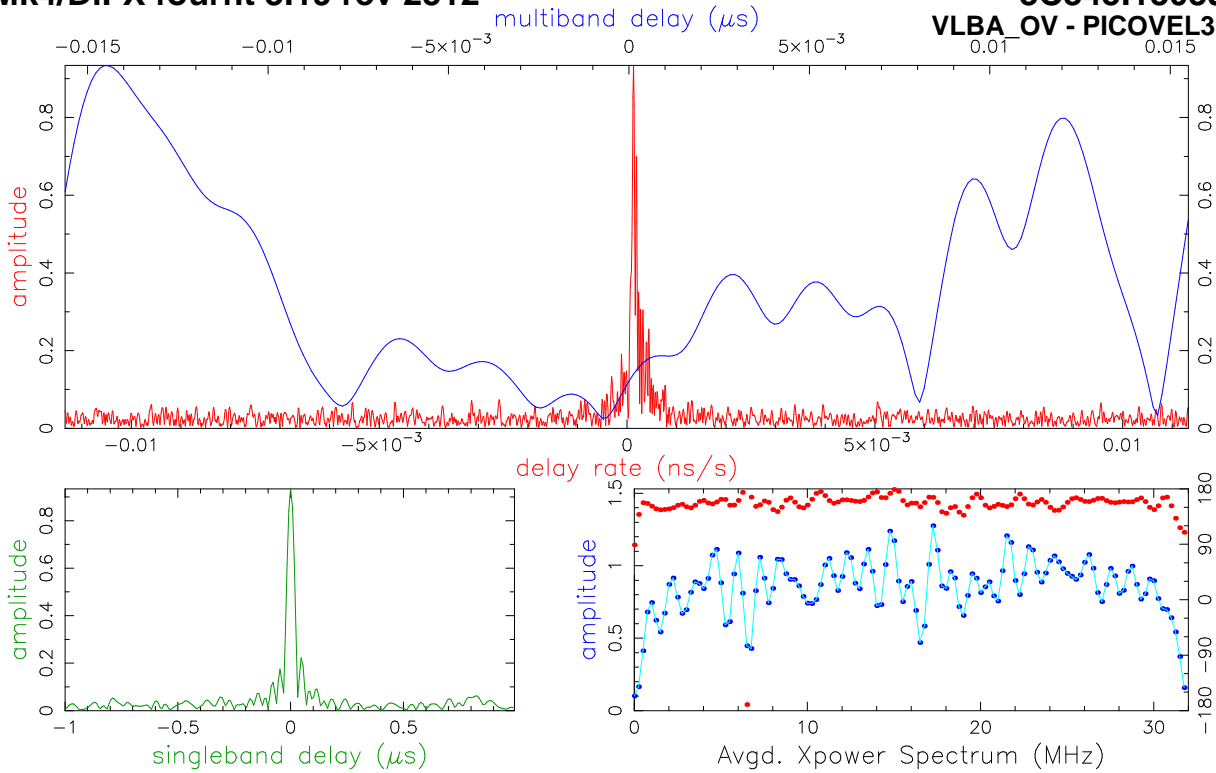
amp/seg (%) 33.8 64.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 34.3 42.4 Inc. seg. avg. 0.146 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 50.7 74.0 Inc. frq. avg. 0.140 Sample rate(MSamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011

n: az 74.7 el 50.6 pa -69.4 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -9394.473 1590.958 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/ni..1305JH Output file: /Exps/c192a/v2/1234/No0001/ni.W.287.1305JH

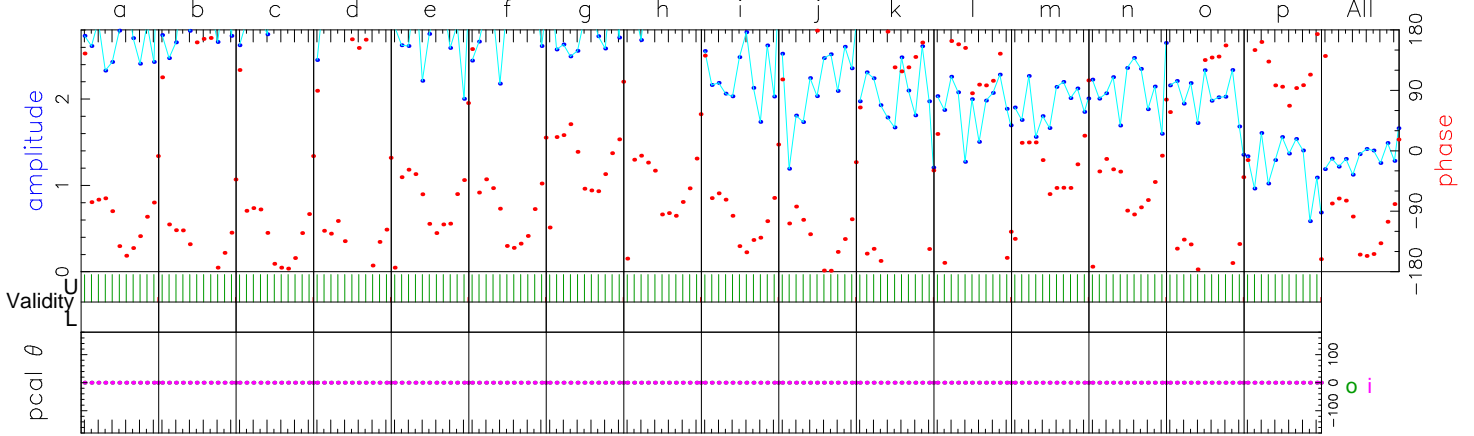


Fringe quality 1

SNR 45.3
Int time 314.116
Amp 0.934
Phase -116.6
PFD 0.0e+00
Delays (us)
SBD 0.000360
MBD -0.014476
Fringe rate (Hz)
0.011070
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042834
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-111.7	-158.3	-134.2	-152.7	-80.0	-99.2	-19.7	-55.0	-110.8	-143.7	161.4	133.6	-26.9	-57.8	176.8	109.7	Phase	-116.6
	2.0	2.2	2.2	2.2	1.9	1.9	2.0	2.2	1.6	1.5	1.4	1.3	1.4	1.5	1.4	0.9	Ampl.	1.7
	128.1	128.9	129.0	128.8	128.9	128.7	128.5	128.9	128.5	128.5	128.7	128.3	128.7	128.7	128.7	126.8	Sbd box	129.0
UL	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used	
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
oi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
oi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	

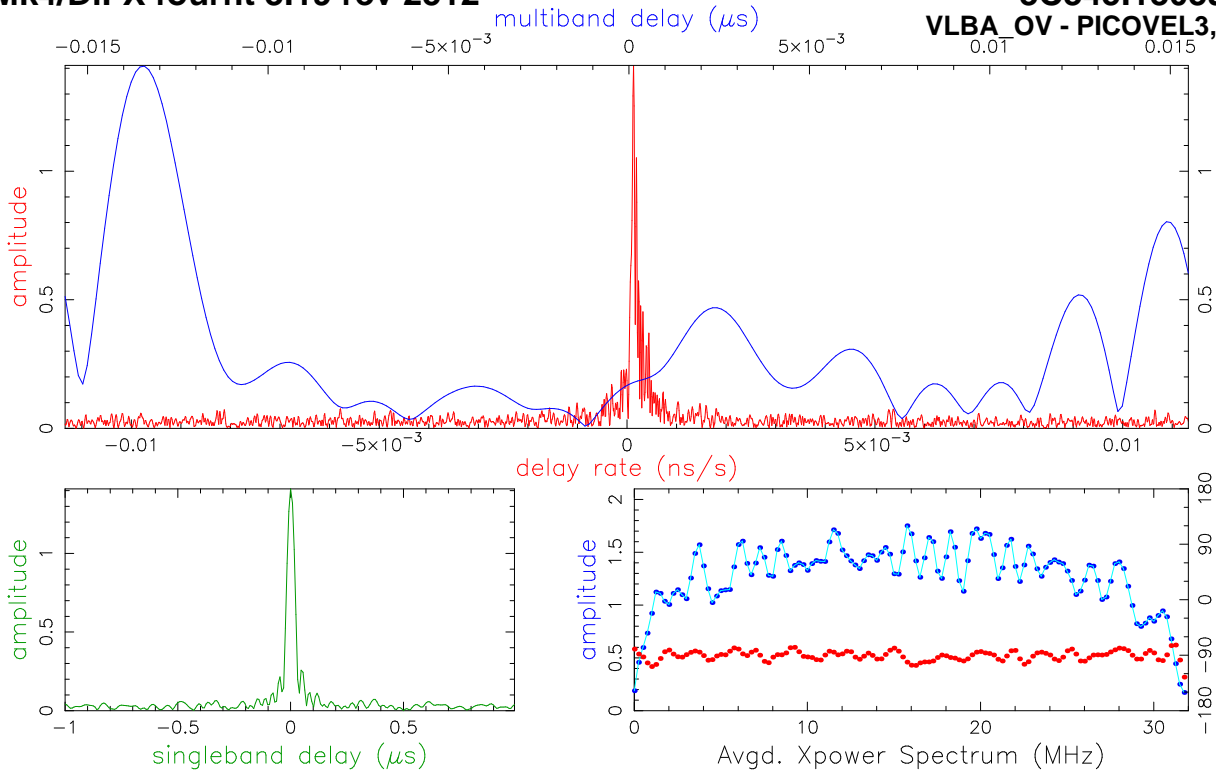
Group delay (usec)(sbd) -7.92444337591E+03 Apriori delay (usec) -7.92442890029E+03 Resid mbdelay (usec) -1.44756E-02 +/- 2.4E-05
 Sband delay (usec) -7.92442854029E+03 Apriori clock (usec) 1.7118748E+01 Resid sbdelay (usec) 3.60000E-04 +/- 3.8E-04
 Phase delay (usec) -7.92442890406E+03 Apriori clockrate (us/s) 3.5398100E-07 Resid phdelay (usec) -3.76114E-06 +/- 8.2E-08
 Delay rate (us/s) 1.49545775433E+00 Apriori rate (us/s) 1.49545762581E+00 Resid rate (us/s) 1.28517E-07 +/- 4.5E-10
 Total phase (deg) -286.3 Apriori accel (us/s/s) 4.23835004818E-05 Resid phase (deg) -116.6 +/- 2.5

RMS Theor. Amplitude 0.934 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 47.7 4.4 Search (2048X64) 0.912 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 42.2 7.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 71.5 5.1 Inc. seg. avg. 1.308 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 92.5 8.8 Inc. frq. avg. 1.701 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

o: az 60.7 el 29.9 pa -64.6 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -11070.428 2921.183 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/oi..1305JH Output file: /Exps/c192a/v2/1234/No0001/oi.W.262.1305JH

Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, oi
VLBA_OV - PICOVEL3, fgroup W, pol RR

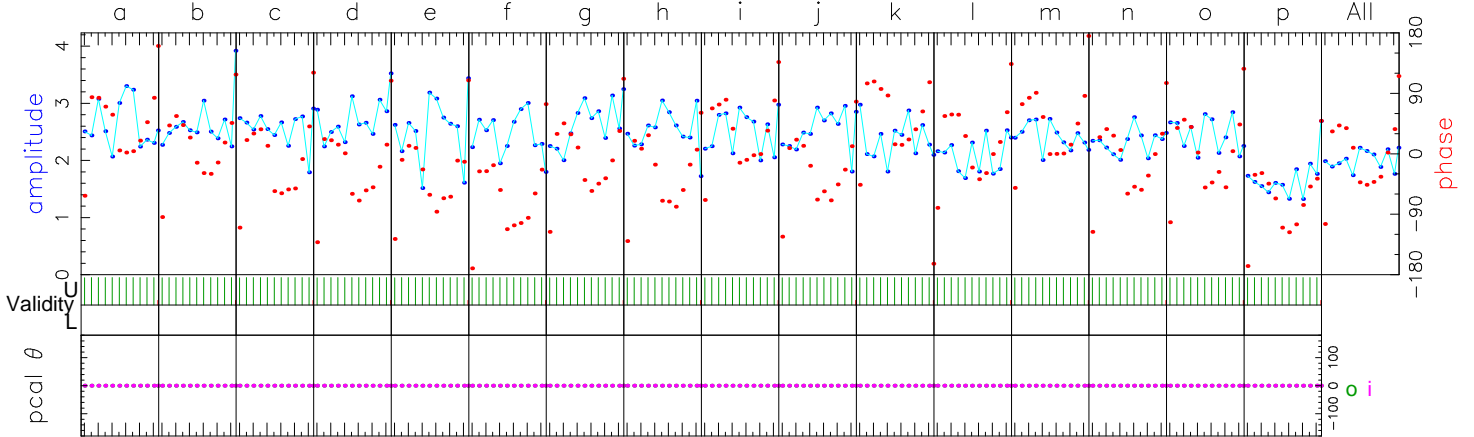


Fringe quality 2

SNR 68.4
Int time 314.116
Amp 1.411
Phase -7.7
PFD 0.0e+00
Delays (us)
SBD 0.000949
MBD -0.013463
Fringe rate (Hz)
0.011125
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042839
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec

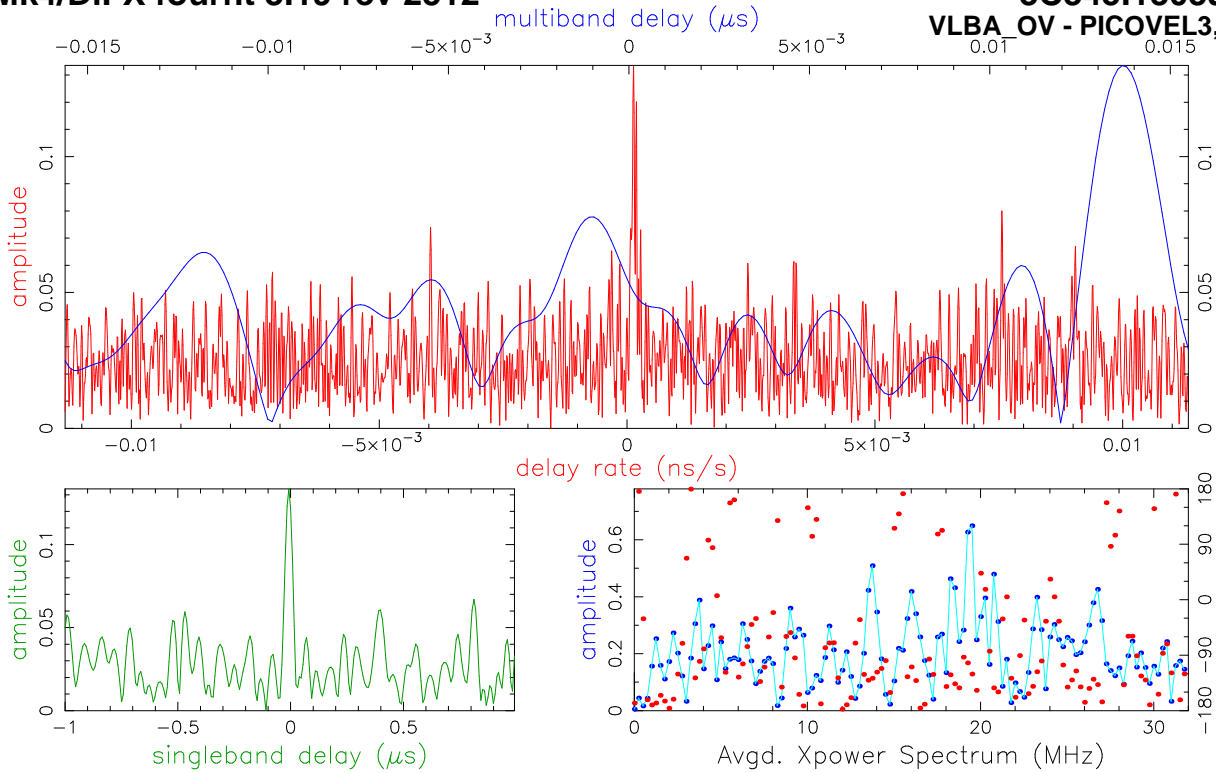


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
	37.4	9.8	-16.0	-25.4	-41.1	-68.6	-11.4	-31.7	29.0	-31.4	54.1	13.9	39.4	-13.7	-7.3	-70.3	Phase	-7.7				
	1.9	1.9	1.7	1.8	1.8	1.7	1.9	1.8	1.7	1.9	1.6	1.4	1.7	1.6	1.7	1.2	Ampl.	1.7				
	128.8	129.1	129.3	129.2	128.9	128.9	129.0	129.2	128.9	128.9	128.5	128.8	128.9	128.4	129.0	127.2	Sbd box	129.1				
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used					
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
oi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
oi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC					
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids					
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks					
																	Chan ids					
																	Tracks					
Group delay (usec)(sbd)			-7.92444236341E+03														Apriori delay (usec)	-7.92442890029E+03	Resid mbdelay (usec)	-1.34631E-02	+/-	1.6E-05
Sband delay (usec)			-7.92442795129E+03														Apriori clock (usec)	1.7118748E+01	Resid sbdelay (usec)	9.49000E-04	+/-	2.5E-04
Phase delay (usec)			-7.92442890054E+03														Apriori clockrate (us/s)	3.5398100E-07	Resid phdelay (usec)	-2.48103E-07	+/-	5.4E-08
Delay rate (us/s)			1.49545775496E+00														Apriori rate (us/s)	1.49545762581E+00	Resid rate (us/s)	1.29145E-07	+/-	3.0E-10
Total phase (deg)																	Apriori accel (us/s/s)	4.23835004818E-05	Resid phase (deg)	-7.7	+/-	1.7

ph/seg (deg) 47.3 2.9 Search (2048X64) 1.368 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 43.1 5.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 38.3 3.4 Inc. seg. avg. 1.996 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
amp/frq (%) 24.6 5.8 Inc. frq. avg. 1.701 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
o: az 60.7 el 29.9 pa -64.6 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -11070.428 2921.183 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/oi..1305JH Output file: /Exps/c192a/v2/1234/No0001/oi.W.291.1305JH

Mk4/DiFX fourfit 3.19 rev 2512

3C345.1305JH, No0001, oi
VLBA_OV - PICOVEL3, fgroup W, pol LR

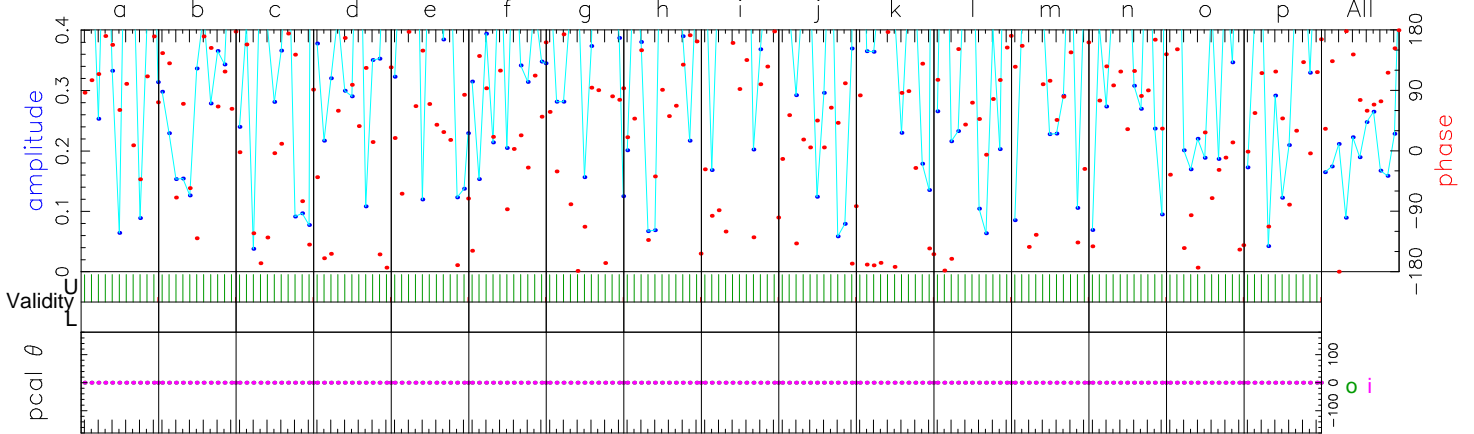


Fringe quality 0

SNR 6.5
Int time 314.116
Amp 0.134
Phase 109.4
PFD 2.6e-02
Delays (us)
SBD -0.007921
MBD 0.013700
Fringe rate (Hz)
0.011275
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042844
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
	116.4	125.4	-177.2	120.3	47.3	62.7	106.1	93.9	178.9	25.9	153.3	121.7	148.6	94.1	-96.3	85.8	Phase	109.4				
	0.3	0.1	0.1	0.1	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.3	0.1	0.2	Ampl.	0.2				
	45.0	65.2	63.6	218.1	203.3	28.6	12.3	127.1	34.3	132.7	220.1	193.2	16.3	128.0	148.6	48.6	Sbd box	128.0				
UL	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used					
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
oi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
oi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC					
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids					
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks					
																	Chan ids					
																	Tracks					
Group delay (usec)(sbd)			-7.92444645041E+03														Apriori delay (usec)	-7.92442890029E+03	Resid mbdelay (usec)	1.36999E-02	+/-	1.7E-04
Sband delay (usec)			-7.92443682129E+03														Apriori clock (usec)	1.7118748E+01	Resid sbdelay (usec)	-7.92100E-03	+/-	2.7E-03
Phase delay (usec)			-7.92442889677E+03														Apriori clockrate (us/s)	3.5398100E-07	Resid phdelay (usec)	3.52758E-06	+/-	5.7E-07
Delay rate (us/s)			1.49545775670E+00														Apriori rate (us/s)	1.49545762581E+00	Resid rate (us/s)	1.30886E-07	+/-	3.1E-09
Total phase (deg)																	Apriori accel (us/s/s)	4.23835004818E-05	Resid phase (deg)	109.4	+/-	17.7

ph/seg (deg) 48.7 30.7
amp/seg (%) 63.9 53.5
ph/frq (deg) 61.0 35.4
amp/frq (%) 63.1 61.8

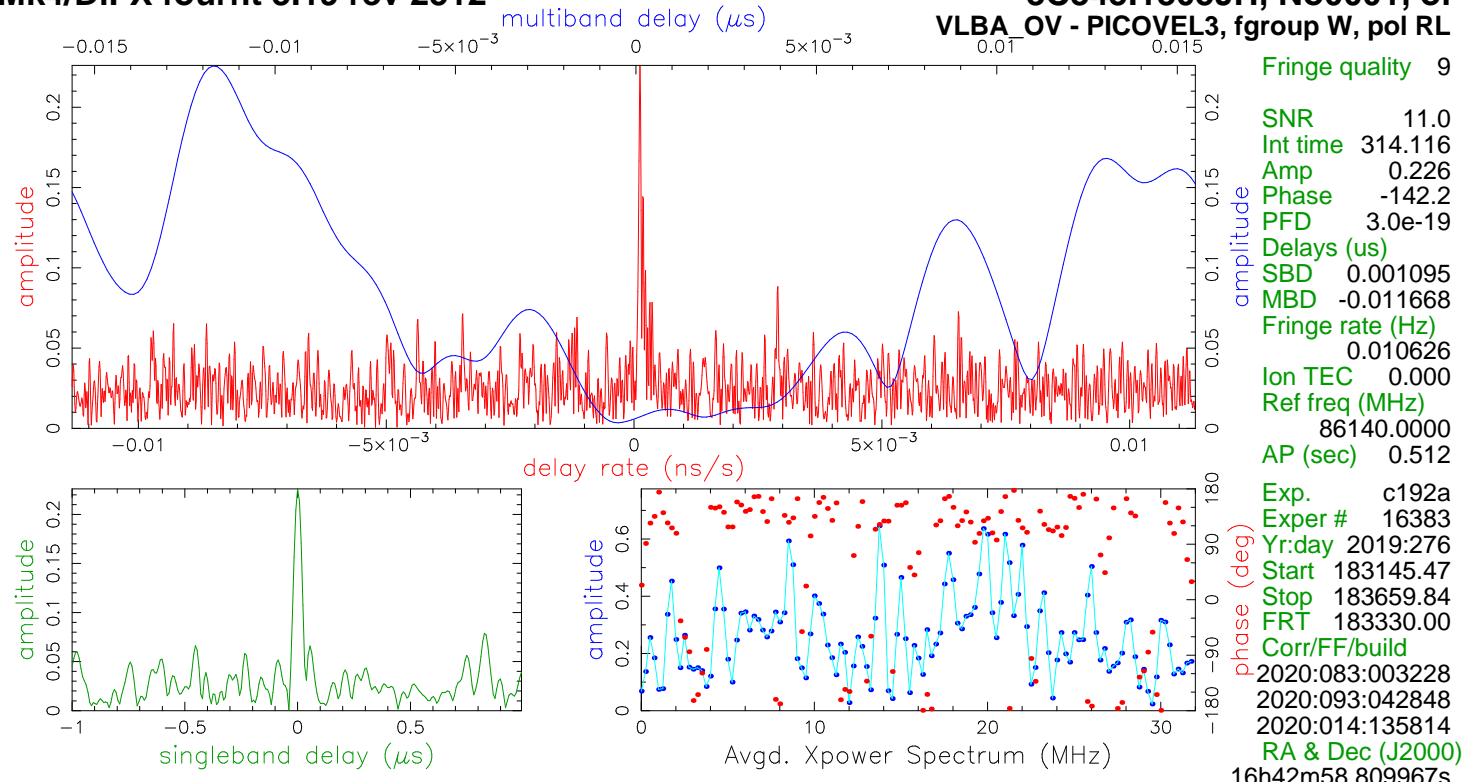
RMS Theor. Amplitude 0.134 +/- 0.021
Search (2048X64) 0.133
Interp. 0.000
Inc. seg. avg. 0.172
Inc. frq. avg. 0.157

PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
PCal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite

sb window (us) -1.000 1.000
mb window (us) -0.016 0.016
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

o: az 60.7 el 29.9 pa -64.6 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -11070.428 2921.183 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/oi..1305JH Output file: /Exps/c192a/v2/1234/No0001/oi.W.309.1305JH



Fringe quality 9

SNR 11.0

Int time 314.116

Amplitude 0.226

Phase -142.2

PFD 3.0e-19

Delays (us)

SBD 0.001095

MBD -0.011668

Fringe rate (Hz)

0.010626

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c192a

Exper # 16383

Yr:day 2019:276

Start 183145.47

Stop 183659.84

FRT 183330.00

Corr/FF/build

2020:083:003228

2020:093:042848

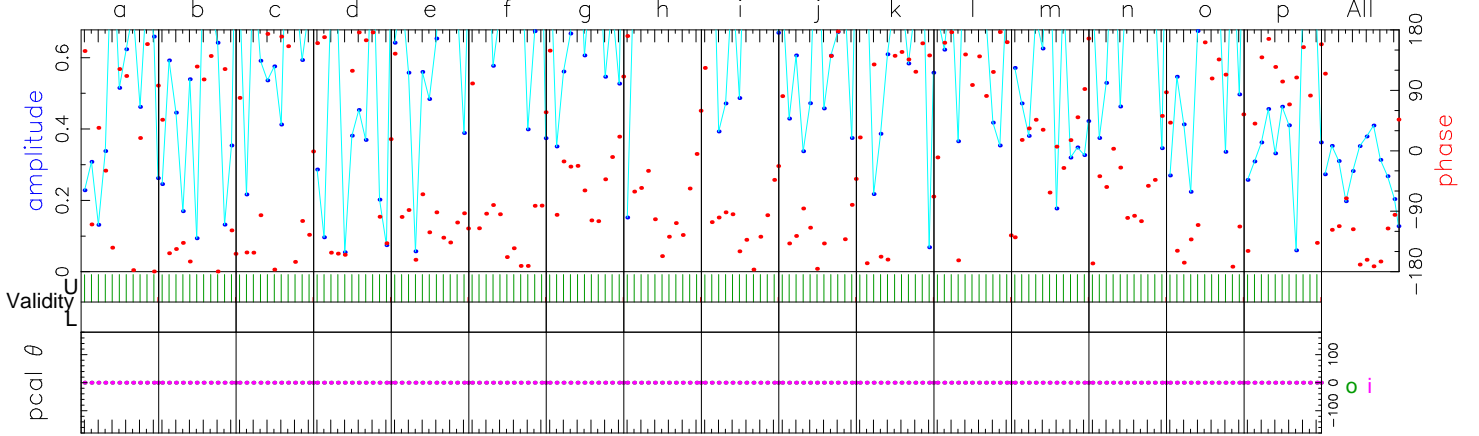
2020:014:135814

RA & Dec (J2000)

16h42m58.809967s

+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All					
UL	167.9	170.3	-166.1	-175.8	-113.2	-125.8	-48.1	-83.2	-114.9	-153.5	152.9	142.1	4.1	-64.9	173.2	131.8		Phase -142.2					
o	0.3	0.3	0.4	0.3	0.5	0.6	0.4	0.6	0.6	0.4	0.4	0.4	0.3	0.4	0.3	0.3		Ampl. 0.4					
i	129.4	130.0	129.3	128.9	129.7	129.2	128.7	128.8	128.9	127.5	129.1	129.0	238.2	129.2	129.6	95.9		Sbd box 129.1					
o	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0		APs used					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs					
o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase					
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		Mani PC					
o	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		PC amp					
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Chan ids					
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Tracks					
i																		Tracks					
Group delay (usec)(sbd)			-7.92444056819E+03															Apriori delay (usec)	-7.92442890029E+03	Resid mbdelay (usec)	-1.16679E-02	+/-	9.8E-05
Sband delay (usec)			-7.92442780479E+03															Apriori clock (usec)	1.7118748E+01	Resid sbdelay (usec)	1.09550E-03	+/-	1.6E-03
Phase delay (usec)			-7.92442890488E+03															Apriori clockrate (us/s)	3.5398100E-07	Resid phdelay (usec)	-4.58497E-06	+/-	3.4E-07
Delay rate (us/s)			1.49545774917E+00															Apriori rate (us/s)	1.49545762581E+00	Resid rate (us/s)	1.23361E-07	+/-	1.9E-09
Total phase (deg)																		Apriori accel (us/s/s)	4.23835004818E-05	Resid phase (deg)	-142.2	+/-	10.5

ph/seg (deg) 50.2 18.1 Search (2048X64) 0.225 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

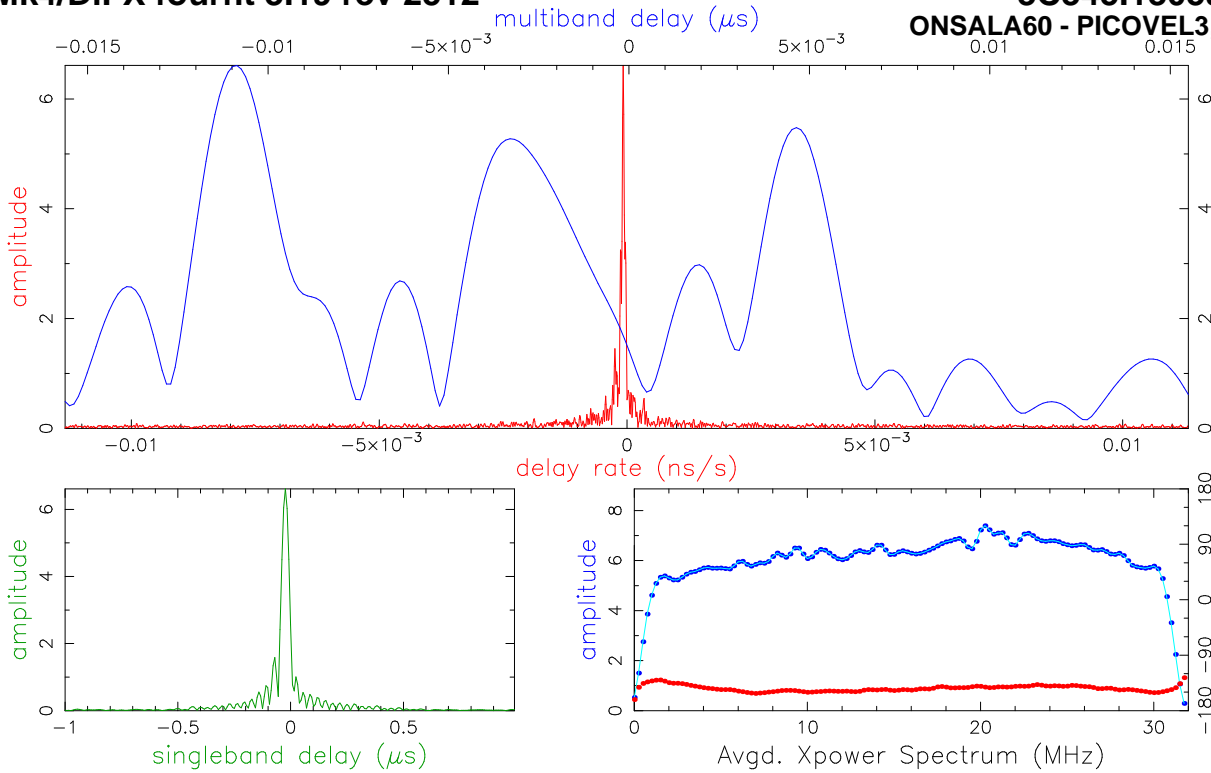
amp/seg (%) 44.7 31.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 69.4 20.9 Inc. seg. avg. 0.287 Sample rate(MISamp/s): 64 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 94.9 36.5 Inc. frq. avg. 0.384 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011

o: az 60.7 el 29.9 pa -64.6 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -11070.428 2921.183 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/oi..1305JH Output file: /Exps/c192a/v2/1234/No0001/oi.W.323.1305JH

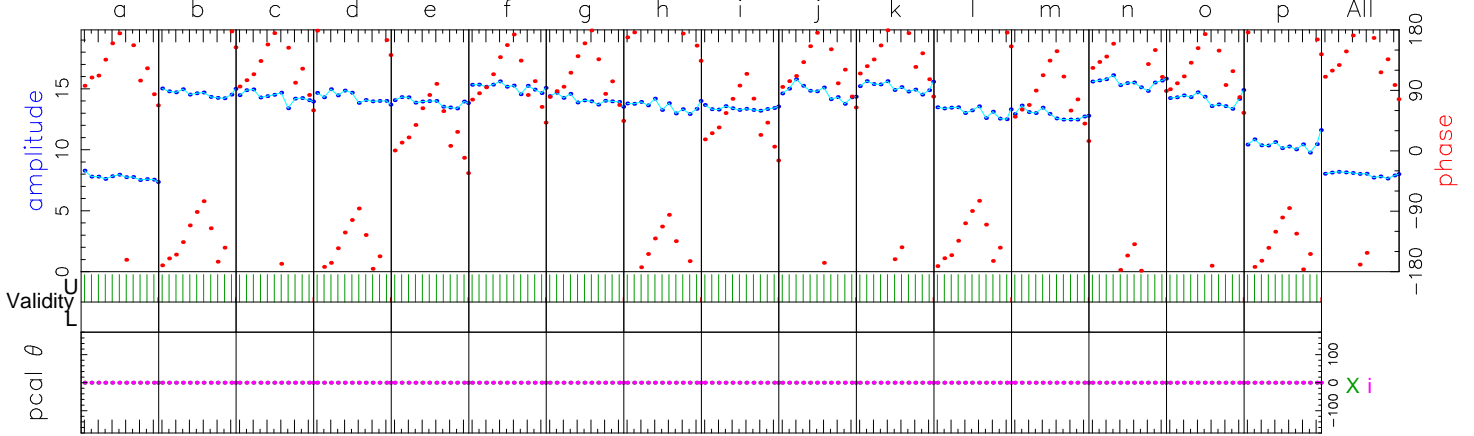


Fringe quality 2

SNR 320.3
Int time 313.934
Amp 6.612
Phase 143.1
PFD 0.0e+00
Delays (us)
SBD -0.023542
MBD -0.010899
Fringe rate (Hz)
-0.006981
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042842
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	130.5	-138.7	128.5	-149.8	34.5	109.8	111.6	-158.8	50.1	127.4	150.7	-137.5	84.6	155.6	124.8	-149.3	Phase	143.1
	6.4	12.2	11.9	12.0	11.5	12.6	11.7	11.3	11.1	12.2	12.5	10.8	10.7	12.9	11.7	8.5	Ampl.	11.3
	127.5	126.7	126.7	126.6	126.5	126.3	126.7	126.7	126.7	126.6	126.4	126.6	126.7	126.2	127.0	126.1	Sbd box	126.0
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Xi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Xi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	
																	Chan ids	
																	Tracks	
Group delay (usec)(sbd)			-1.76259671240E+03					Apriori delay (usec)		-1.76258581372E+03				Resid mbdelay (usec)		-1.08987E-02	+/-	3.4E-06
Sband delay (usec)			-1.76260935572E+03					Apriori clock (usec)		3.2814224E+01				Resid sbdelay (usec)		-2.35420E-02	+/-	5.4E-05
Phase delay (usec)			-1.76258580911E+03					Apriori clockrate (us/s)		8.8100003E-07				Resid phdelay (usec)		4.61519E-06	+/-	1.2E-08
Delay rate (us/s)			5.90196442214E-02					Apriori rate (us/s)		5.90197252620E-02				Resid rate (us/s)		-8.10406E-08	+/-	6.4E-11
Total phase (deg)								Apriori accel (us/s/s)		2.68521651531E-05				Resid phase (deg)		143.1	+/-	0.4

ph/seg (deg) 34.6 0.6
amp/seg (%) 20.8 1.1
ph/frq (deg) 60.9 0.7
amp/frq (%) 74.2 1.2

RMS Theor. Amplitude 6.612 +/- 0.021
Search (2048X64) 6.442
Interp. 0.000
Inc. seg. avg. 7.975
Inc. frq. avg. 11.253

Group delay (usec)(sbd) -1.76259671240E+03
Sband delay (usec) -1.76260935572E+03
Phase delay (usec) -1.76258580911E+03
Delay rate (us/s) 5.90196442214E-02
Total phase (deg) -214.7

Apriori delay (usec) -1.76258581372E+03
Apriori clock (usec) 3.2814224E+01
Apriori clockrate (us/s) 8.8100003E-07
Apriori rate (us/s) 5.90197252620E-02
Apriori accel (us/s/s) 2.68521651531E-05

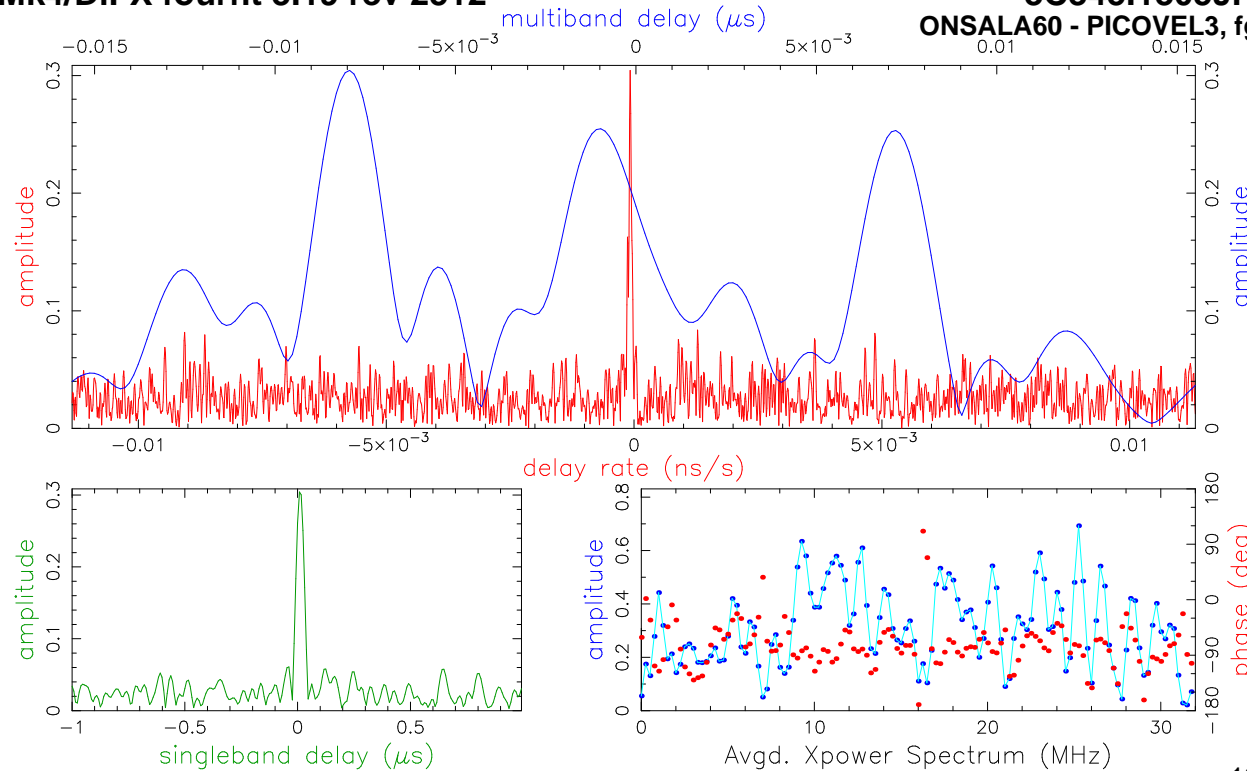
Resid mbdelay (usec) -1.08987E-02
Resid sbdelay (usec) -2.35420E-02
Resid phdelay (usec) 4.61519E-06
Resid rate (us/s) -8.10406E-08
Resid phase (deg) 143.1

PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
PCal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite

sb window (us) -1.000 1.000
mb window (us) -0.016 0.016
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

X: az 263.7 el 53.3 pa 44.2 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -389.926 3393.376 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/Xi..1305JH Output file: /Exps/c192a/v2/1234/No0001/Xi.W.301.1305JH

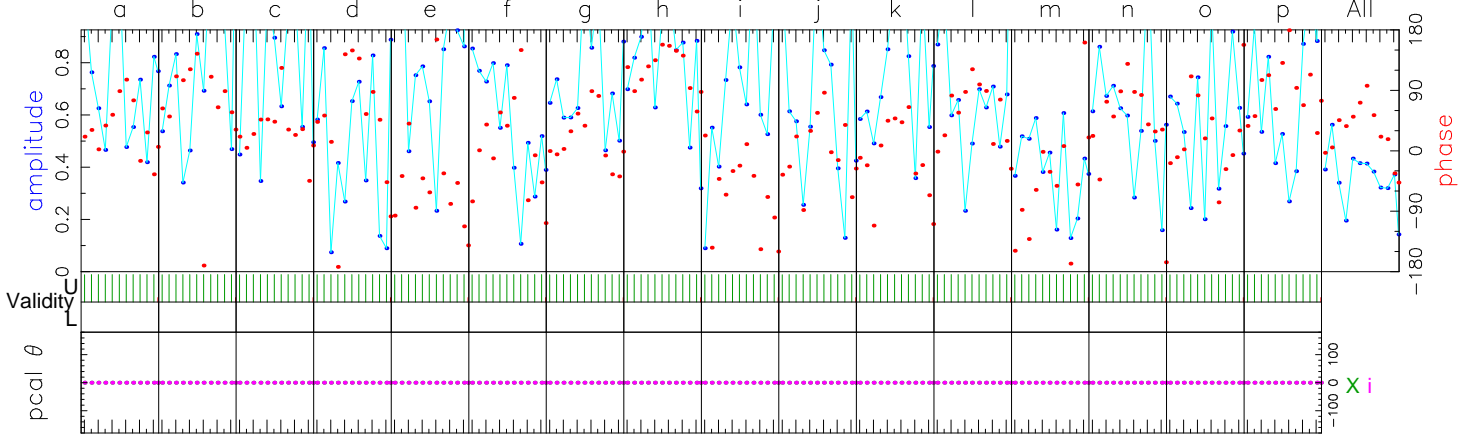


Fringe quality 9

SNR 15.0
Int time 313.934
Amp 0.309
Phase 32.5
PFD 9.0e-42
Delays (us)
SBD 0.011072
MBD -0.007941
Fringe rate (Hz)
-0.006947
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042846
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All				
U/L	35.0	97.7	24.4	96.3	-65.1	-1.0	25.6	124.6	-58.6	0.7	11.3	48.9	-67.1	52.0	14.1	81.2	Phase	32.5				
X	0.6	0.6	0.7	0.3	0.6	0.4	0.5	0.7	0.5	0.4	0.5	0.5	0.2	0.4	0.4	0.5	Ampl.	0.5				
Xi	129.5	131.6	131.3	133.1	130.9	131.4	131.7	130.9	131.4	130.6	130.2	130.6	151.1	131.4	130.9	130.2	Sbd box	130.4				
Xi	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used					
X	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs					
Xi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase					
Xi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC					
X	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp					
X	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000						
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids					
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks					
																	Chan ids					
																	Tracks					
Group delay (usec)(sbd)			-1.76256250449E+03														Apriori delay (usec)	-1.76258581372E+03	Resid mbdelay (usec)	-7.94077E-03	+/-	7.2E-05
Sband delay (usec)			-1.76257474172E+03														Apriori clock (usec)	3.2814224E+01	Resid sbdelay (usec)	1.10720E-02	+/-	1.2E-03
Phase delay (usec)			-1.76258581267E+03														Apriori clockrate (us/s)	8.8100003E-07	Resid phdelay (usec)	1.04830E-06	+/-	2.5E-07
Delay rate (us/s)			5.90196446197E-02														Apriori rate (us/s)	5.90197252620E-02	Resid rate (us/s)	-8.06424E-08	+/-	1.4E-09
Total phase (deg)																	Apriori accel (us/s/s)	2.68521651531E-05	Resid phase (deg)	32.5	+/-	7.7

ph/seg (deg) 35.9 13.3
amp/seg (%) 36.0 23.2
ph/frq (deg) 60.1 15.3
amp/frq (%) 77.0 26.7

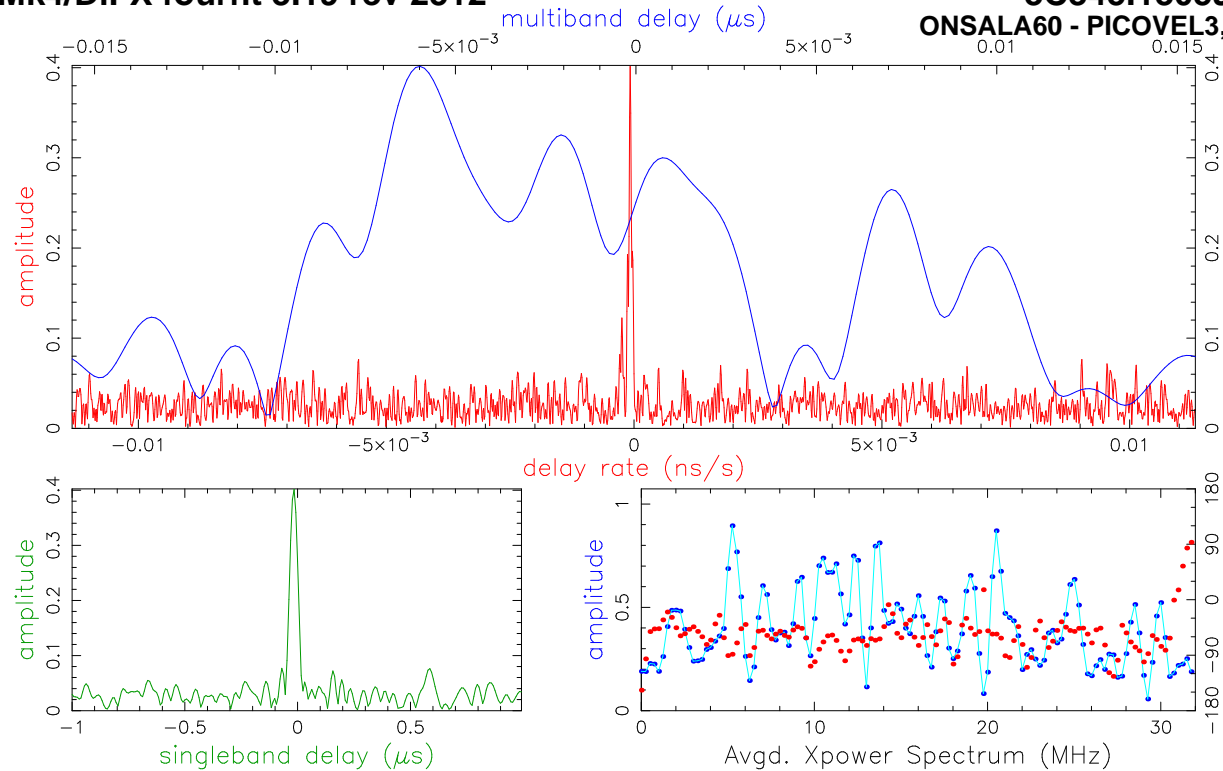
RMS Theor. Amplitude 0.309 +/- 0.021
Search (2048X64) 0.297
Interp. 0.000
Inc. seg. avg. 0.364
Inc. frq. avg. 0.482

PCal mode: MANUAL, MANUAL PC period (AP's) 5, 5
PCal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite

sb window (us) -1.000 1.000
mb window (us) -0.016 0.016
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

X: az 263.7 el 53.3 pa 44.2 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -389.926 3393.376 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/Xi..1305JH Output file: /Exps/c192a/v2/1234/No0001/Xi.W.315.1305JH

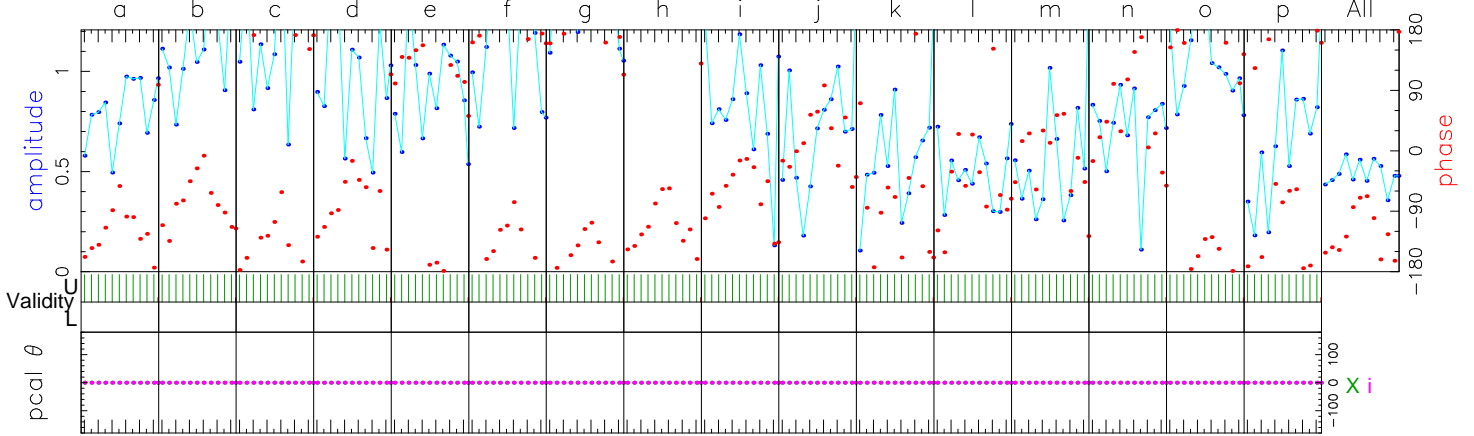


Fringe quality 8

SNR 19.5
 Int time 313.934
 Amp 0.403
 Phase -123.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.017123
 MBD -0.006020
 Fringe rate (Hz)
 -0.006914
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183145.47
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:083:003228
 2020:093:042849
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec

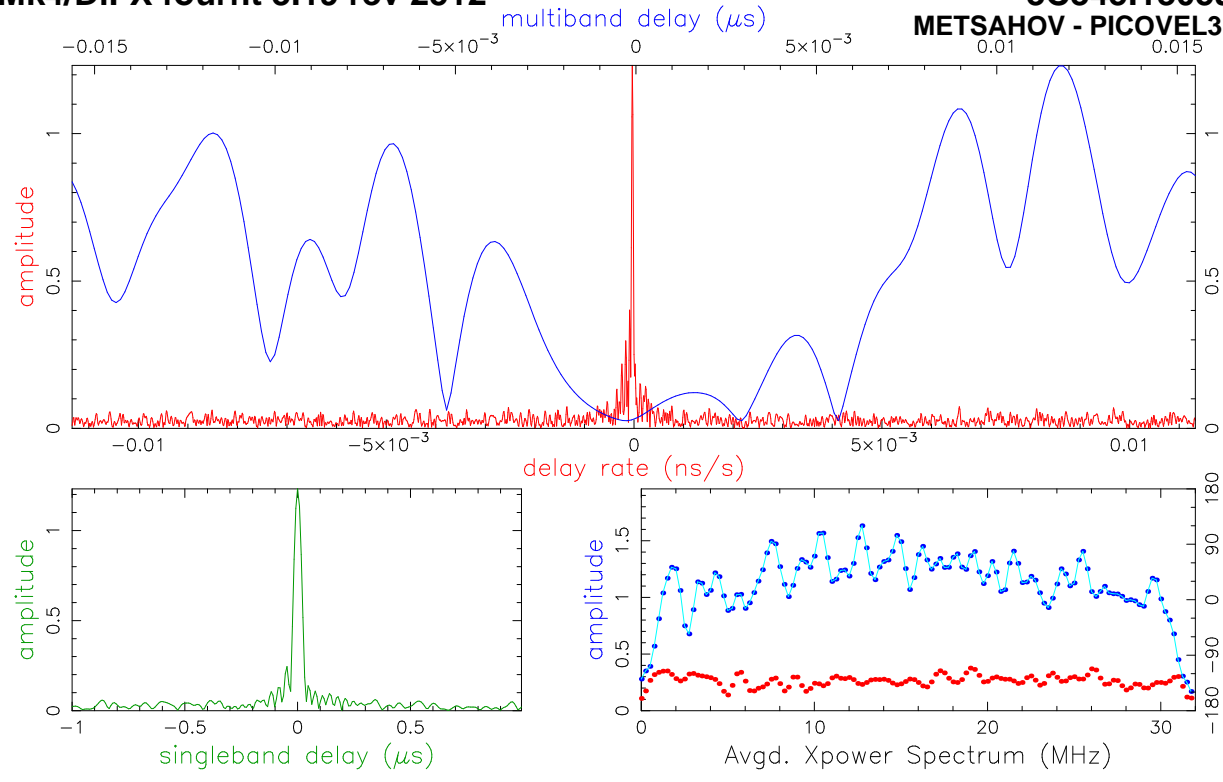


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-121.8	-76.1	-152.8	-81.8	144.2	-152.8	-161.3	-114.9	-55.1	12.5	-101.0	-60.6	-2.6	34.9	-174.4	-129.0	Phase	-123.0
	0.7	0.9	0.9	0.7	0.8	1.0	1.3	1.4	0.7	0.5	0.3	0.3	0.4	0.4	0.9	0.3	Ampl.	0.7
	127.3	126.8	127.2	127.4	126.8	127.1	126.6	126.8	126.4	127.4	128.1	127.8	126.6	125.6	127.4	125.0	Sbd box	126.8
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used	
X	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
X:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	
																	Chan ids	
																	Tracks	
Group delay (usec)(sbd)			-1.76259183390E+03					Apriori delay (usec)		-1.76258581372E+03				Resid mbdelay (usec)		-6.02017E-03	+/-	5.5E-05
Sband delay (usec)			-1.76260293722E+03					Apriori clock (usec)		3.2814224E+01				Resid sbdelay (usec)		-1.71235E-02	+/-	8.8E-04
Phase delay (usec)			-1.76258581769E+03					Apriori clockrate (us/s)		8.8100003E-07				Resid phdelay (usec)		-3.96662E-06	+/-	1.9E-07
Delay rate (us/s)			5.90196450030E-02					Apriori rate (us/s)		5.90197252620E-02				Resid rate (us/s)		-8.02590E-08	+/-	1.0E-09
Total phase (deg)					-120.8			Apriori accel (us/s/s)		2.68521651531E-05				Resid phase (deg)		-123.0	+/-	5.9

ph/seg (deg) RMS Theor. Amplitude 0.403 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 34.8 10.2 Search (2048X64) 0.395 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 26.4 17.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 78.1 11.8 Inc. seg. avg. 0.480 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 110.9 20.5 Inc. frq. avg. 0.699 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

X: az 263.7 el 53.3 pa 44.2 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -389.926 3393.376 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/Xi..1305JH Output file: /Exps/c192a/v2/1234/No0001/Xi.W.333.1305JH

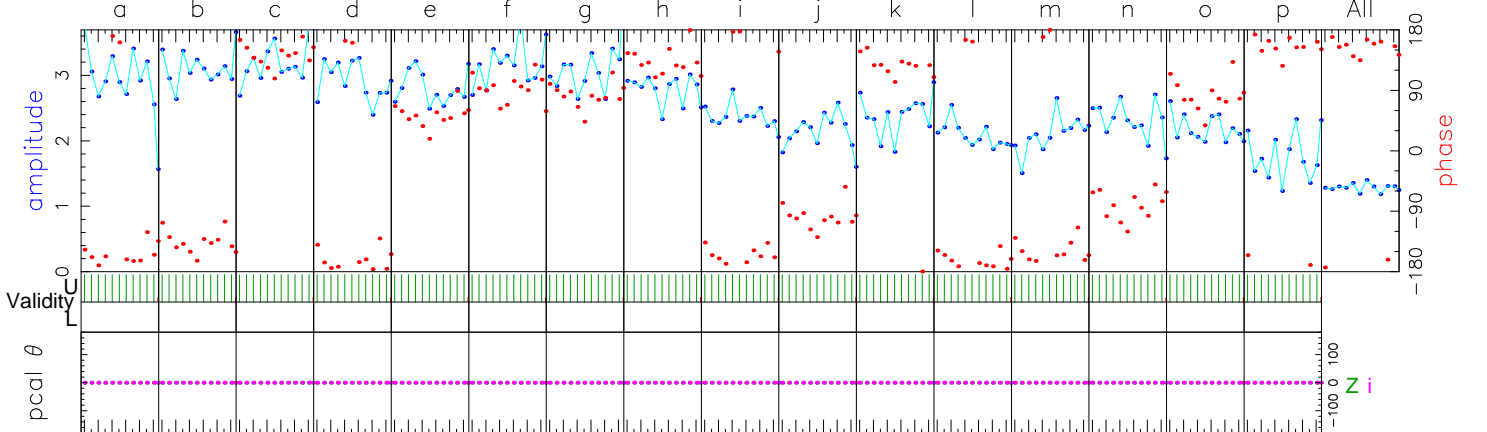


Fringe quality 4

SNR 59.7
Int time 313.804
Amp 1.232
Phase 161.9
PFD 0.0e+00
Delays (us)
SBD 0.000180
MBD 0.011783
Fringe rate (Hz)
-0.003023
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c192a
Exper # 16383
Yr:day 2019:276
Start 183145.47
Stop 183659.84
FRT 183330.00
Corr/FF/build
2020:083:003228
2020:093:042844
2020:014:135814
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec

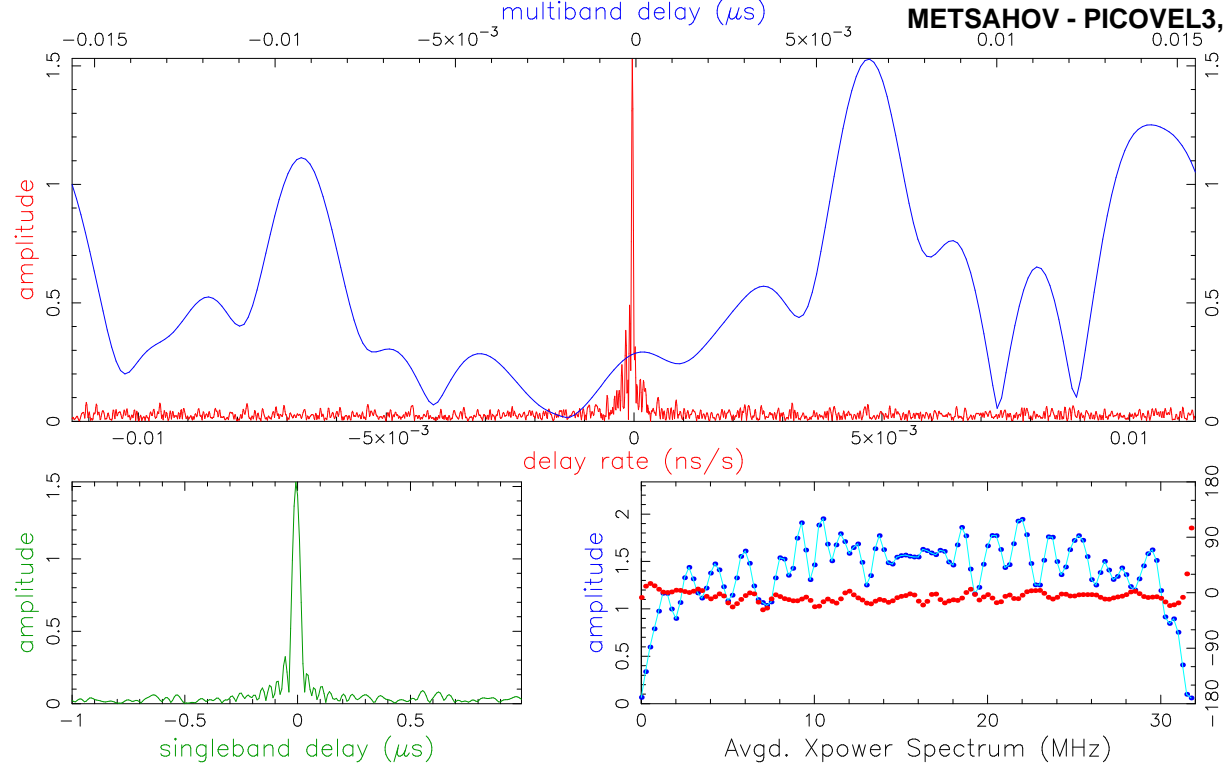


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-161.7	-134.6	141.1	-169.4	52.6	94.6	82.5	135.2	-160.2	-98.5	134.3	-168.4	-154.0	-80.8	84.0	163.7	Phase	161.9
	2.8	3.0	3.0	2.8	2.7	3.0	2.9	2.7	2.3	2.1	2.2	2.0	2.0	2.2	2.0	1.6	Ampl.	2.4
	128.5	129.1	128.9	129.1	128.8	129.2	129.0	129.3	129.1	129.2	129.1	129.0	129.2	129.2	129.6	129.5	Sbd box	129.0
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
Z:i	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Chan ids	
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL	Tracks	

Group delay (usec)(sbd) -3.37179048212E+03 Apriori delay (usec) -3.37180226547E+03 Resid mbdelay (usec) 1.17833E-02 +/- 1.8E-05
 Sband delay (usec) -3.37180208547E+03 Apriori clock (usec) 6.7117828E-01 Resid sbdelay (usec) 1.80000E-04 +/- 2.9E-04
 Phase delay (usec) -3.37180226025E+03 Apriori clockrate (us/s) 3.6929281E-07 Resid phdelay (usec) 5.22189E-06 +/- 6.2E-08
 Delay rate (us/s) 2.96858327158E-02 Apriori rate (us/s) 2.96858678057E-02 Resid rate (us/s) -3.50899E-08 +/- 3.4E-10
 Total phase (deg) 108.8 Apriori accel (us/s/s) 3.70859582674E-05 Resid phase (deg) 161.9 +/- 1.9

RMS Theor. Amplitude 1.232 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 17.3 3.3 Search (2048X64) 1.223 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 6.7 5.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 68.1 3.8 Inc. seg. avg. 1.287 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 105.2 6.7 Inc. frq. avg. 2.447 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 271.4 el 46.7 pa 40.3 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -153.419 4234.117 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/Zi..1305JH Output file: /Exps/c192a/v2/1234/No0001/Zi.W.311.1305JH

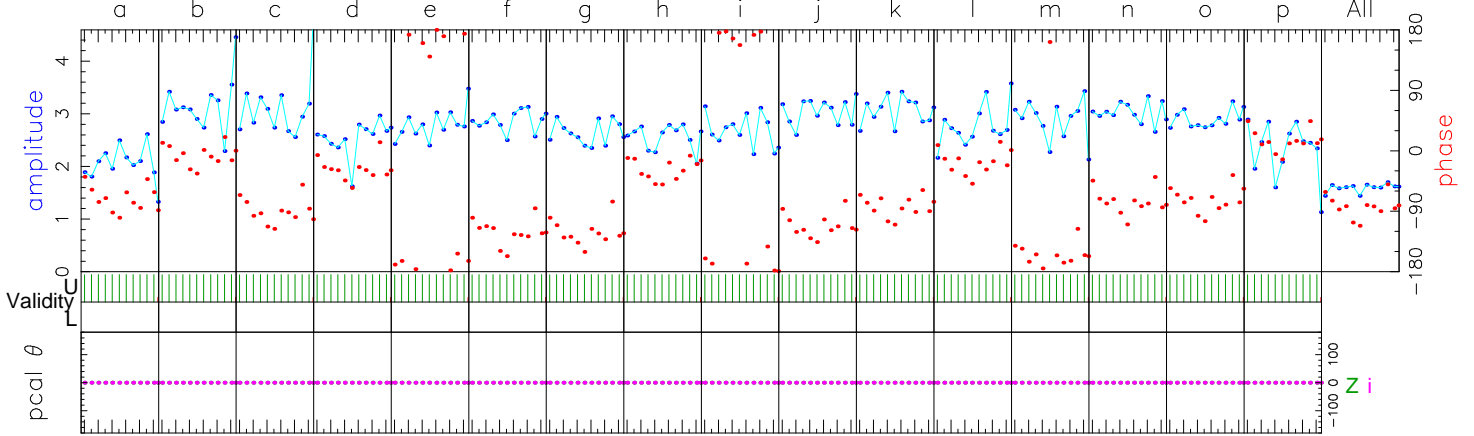


Fringe quality 4

SNR 74.2
 Int time 313.804
 Amp 1.532
 Phase -82.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.006640
 MBD 0.006451
 Fringe rate (Hz)
 -0.002974
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183145.47
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:083:003228
 2020:093:042849
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec

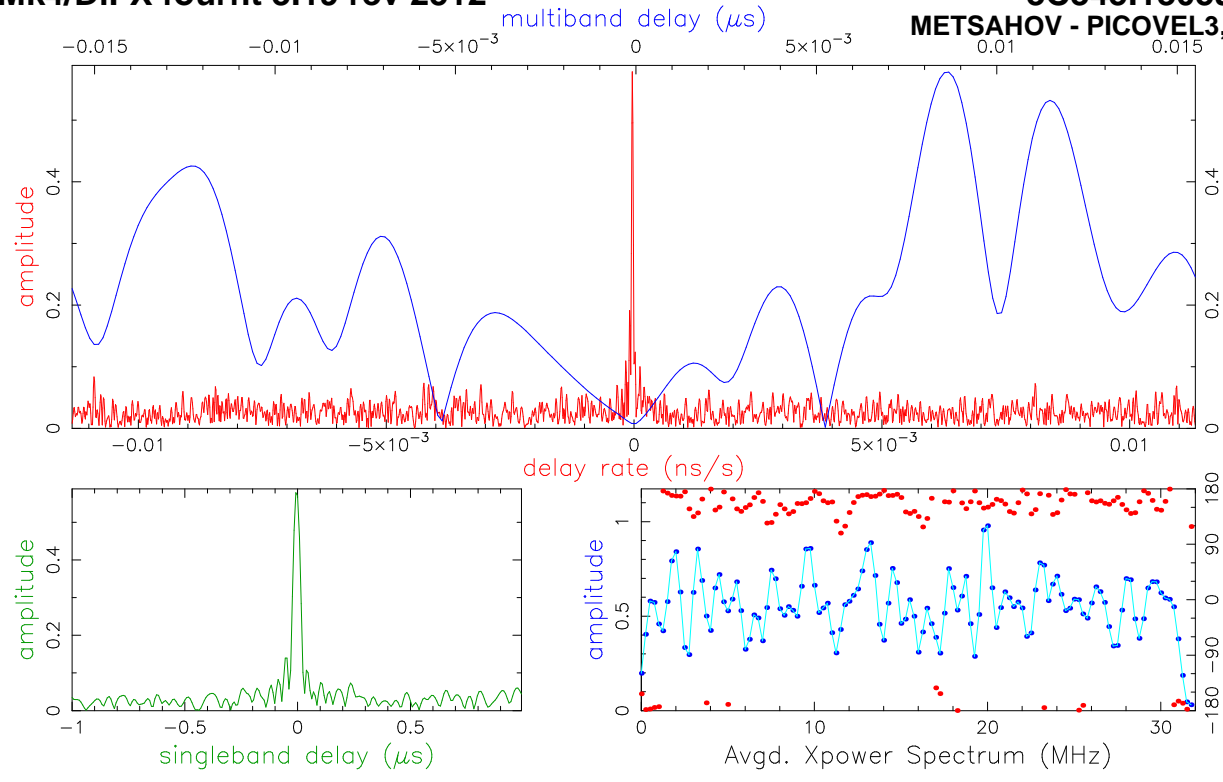


	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All
	-69.7	-7.6	-89.0	-25.8	178.7	-121.1	-120.3	-27.9	-176.7	-110.5	-83.2	-18.2	-156.7	-76.0	-73.5	16.3	Phase	-82.7
	2.0	3.0	2.9	2.4	2.6	2.7	2.5	2.6	2.9	3.0	2.6	2.8	2.9	2.7	2.3	2.3	Ampl.	2.6
	129.4	128.6	128.7	128.8	128.6	128.5	129.0	128.9	128.4	128.9	128.7	128.8	129.0	128.9	129.2	129.0	Sbd box	128.2
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used	
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
Zi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Zi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Chan ids	
i	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR	Tracks	

Group delay (usec)(sbd) -3.37179581434E+03 Apriori delay (usec) -3.37180226547E+03 Resid mbdelay (usec) 6.45113E-03 +/- 1.5E-05
 Sband delay (usec) -3.37180890597E+03 Apriori clock (usec) 6.7117828E-01 Resid sbdelay (usec) -6.64050E-03 +/- 2.3E-04
 Phase delay (usec) -3.37180226814E+03 Apriori clockrate (us/s) 3.6929281E-07 Resid phdelay (usec) -2.66785E-06 +/- 5.0E-08
 Delay rate (us/s) 2.96858332791E-02 Apriori rate (us/s) 2.96858678057E-02 Resid rate (us/s) -3.45266E-08 +/- 2.7E-10
 Total phase (deg) -135.9 Apriori accel (us/s/s) 3.70859582674E-05 Resid phase (deg) -82.7 +/- 1.5

RMS Theor. Amplitude 1.532 +/- 0.021 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 16.7 2.7 Search (2048X64) 1.518 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 6.5 4.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 62.0 3.1 Inc. seg. avg. 1.592 Sample rate(MISamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 74.8 5.4 Inc. frq. avg. 2.644 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 271.4 el 46.7 pa 40.3 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -153.419 4234.117 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/Zi..1305JH Output file: /Exps/c192a/v2/1234/No0001/Zi.W.331.1305JH

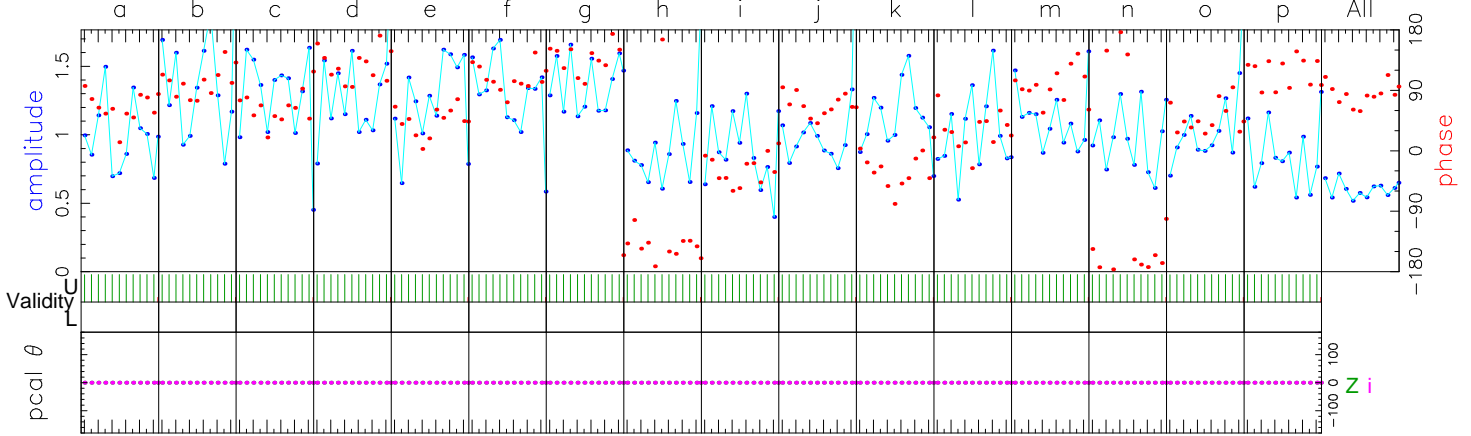


Fringe quality 7

SNR 28.5
 Int time 313.804
 Amp 0.589
 Phase 84.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.004482
 MBD 0.008642
 Fringe rate (Hz)
 -0.003068
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c192a
 Exper # 16383
 Yr:day 2019:276
 Start 183145.47
 Stop 183659.84
 FRT 183330.00
 Corr/FF/build
 2020:083:003228
 2020:093:042855
 2020:014:135814
 RA & Dec (J2000)
 16h42m58.809967s
 +39°48'36.993984"

Amp. and Phase vs. time for each freq., 12 segs, 55 APs / seg (28.16 sec / seg.), time ticks 30 sec



	86012.00	86044.00	86076.00	86108.00	86140.00	86172.00	86204.00	86236.00	86268.00	86300.00	86332.00	86364.00	86396.00	86428.00	86460.00	86492.00	Freq (MHz)	All	
U/L	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	614/0	APs used	128.4
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	1.0
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	1.0
Zi	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	1.0
Z	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	1.0
i	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	1.0
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	W08UR	W09UR	W10UR	W11UR	W12UR	W13UR	W14UR	W15UR		Tracks	1.0
i	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL	W10UL	W11UL	W12UL	W13UL	W14UL	W15UL		Chan ids	1.0
																		Tracks	1.0
Group delay (usec)(sbd)	-3.37179362365E+03			Apriori delay (usec)			-3.37180226547E+03			Resid mbdelay (usec)			8.64182E-03			+/- 3.8E-05			
Sband delay (usec)	-3.37180674797E+03			Apriori clock (usec)			6.7117828E-01			Resid sbdelay (usec)			-4.48250E-03			+/- 6.0E-04			
Phase delay (usec)	-3.37180226275E+03			Apriori clockrate (us/s)			3.6929281E-07			Resid phdelay (usec)			2.71598E-06			+/- 1.3E-07			
Delay rate (us/s)	2.96858321837E-02			Apriori rate (us/s)			2.96858678057E-02			Resid rate (us/s)			-3.56220E-08			+/- 7.1E-10			
Total phase (deg)	31.1			Apriori accel (us/s/s)			3.70859582674E-05			Resid phase (deg)			84.2			+/- 4.0			

ph/seg (deg) 16.0 7.0 Search (2048X64) 0.566 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 10.2 12.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 69.5 8.0 Inc. seg. avg. 0.597 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 81.1 14.0 Inc. frq. avg. 1.025 Sample rate(MSamp/s): 64 Data rate(Mb/s): 2048 nlags: 128 t_cohere infinite dr window (ns/s) -0.011 0.011
 Z: az 271.4 el 46.7 pa 40.3 i: az 286.6 el 62.3 pa 84.7 u,v (fr/asec) -153.419 4234.117 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c192a/v2/1234/No0001/Zi..1305JH Output file: /Exps/c192a/v2/1234/No0001/Zi.W.351.1305JH