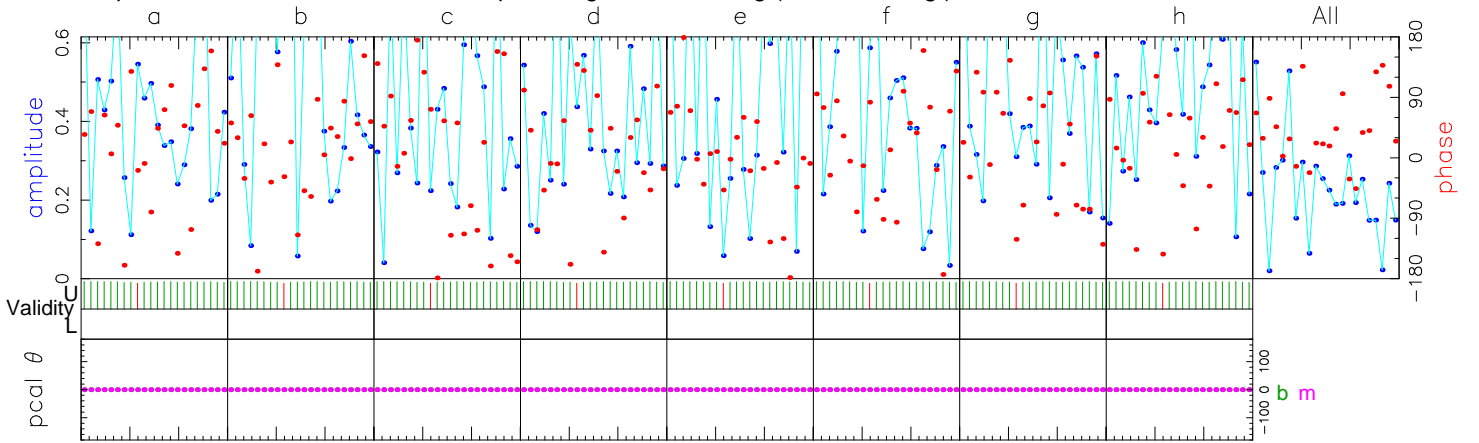


Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

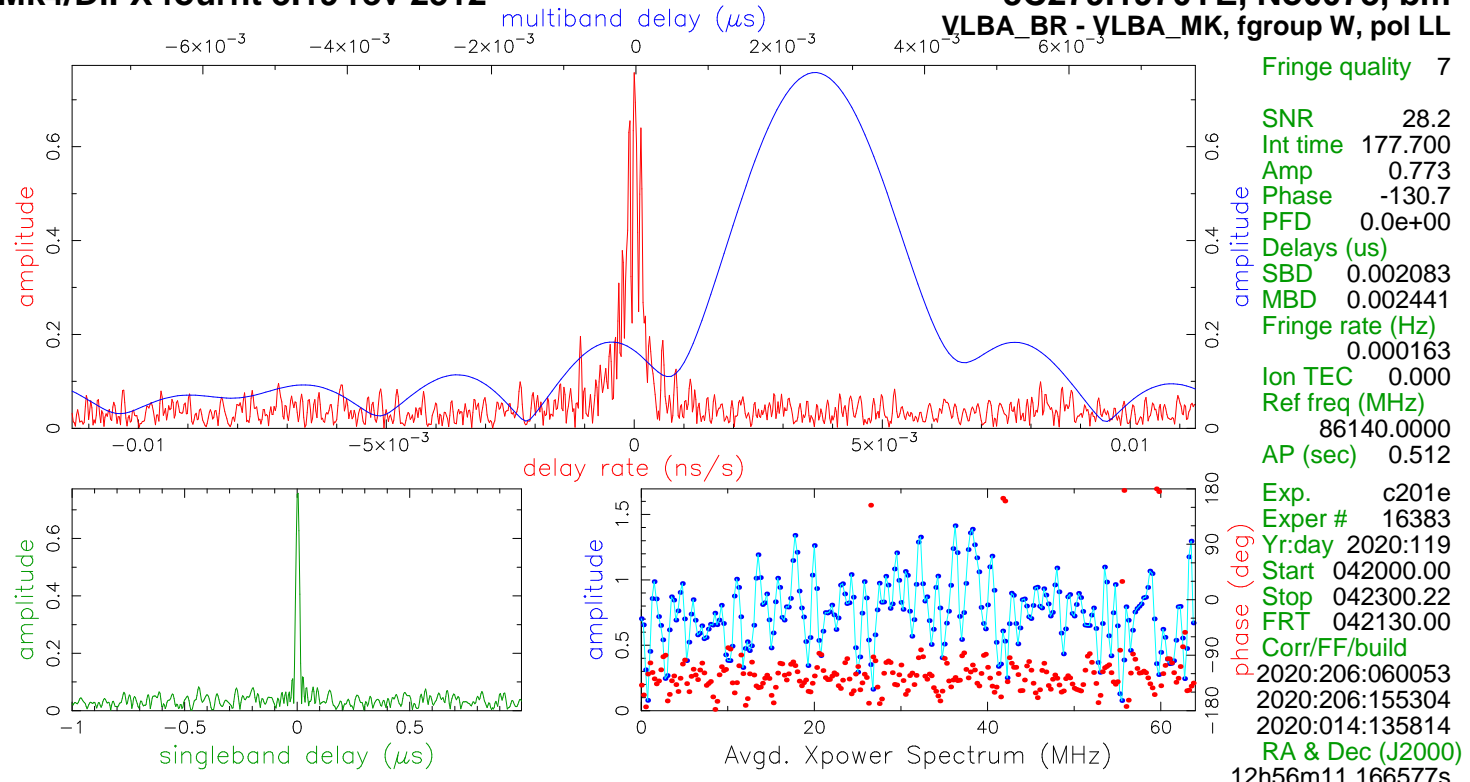


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
51.5	20.5	140.4	47.4	12.4	31.3	36.7	50.6	50.6	Phase	37.5
0.2	0.4	0.1	0.2	0.3	0.2	0.2	0.3	0.3	Ampl.	0.2
351.9	462.6	216.9	339.1	384.8	415.0	1.7	414.5	414.5	Sbd box	461.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	3.57181360278E+03		Apriori delay (usec)	3.57100954999E+03	Resid mbdelay (usec)	7.17779E-03	+/-	1.8E-04		
Sband delay (usec)	3.57180991299E+03		Apriori clock (usec)	-9.6010284E+00	Resid sbdelay (usec)	8.00363E-01	+/-	1.4E-03		
Phase delay (usec)	3.57100955120E+03		Apriori clockrate (us/s)	-5.3299997E-07	Resid phdelay (usec)	1.20896E-06	+/-	6.0E-07		
Delay rate (us/s)	-7.98421258839E-01		Apriori rate (us/s)	-7.98428951738E-01	Resid rate (us/s)	7.69290E-06	+/-	5.8E-09		
Total phase (deg)		266.5	Apriori accel (us/s/s)	-2.37393837946E-05	Resid phase (deg)	37.5	+/-	18.7		

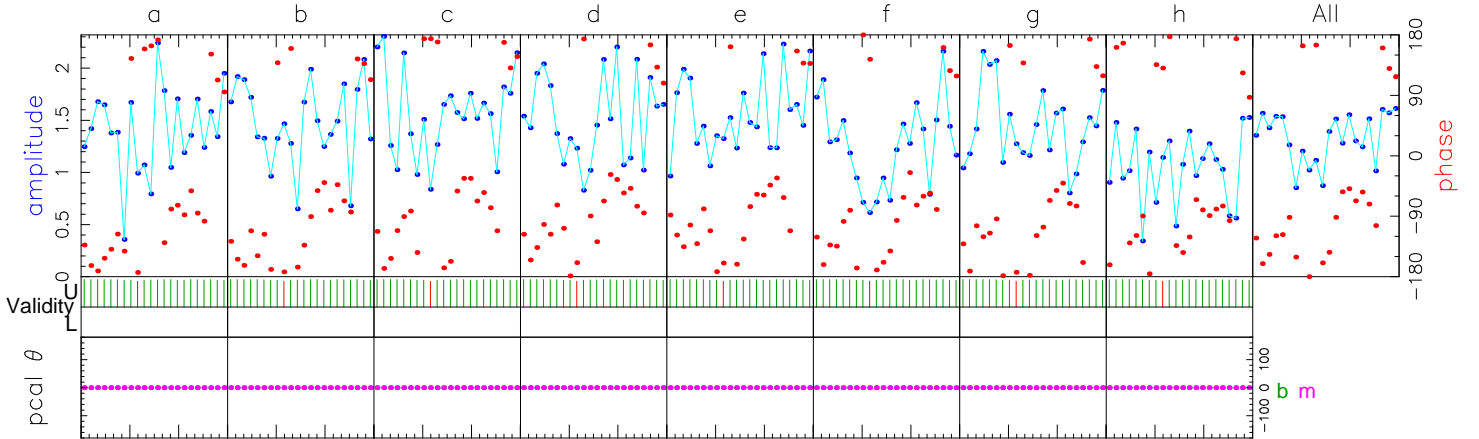
	RMS	Theor.	Amplitude	0.205 +/- 0.033	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	52.0	43.8	Search (1024X32)	0.160	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	85.1	76.4	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	44.7	26.4	Inc. seg. avg.	0.218	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	41.2	46.1	Inc. frq. avg.	0.206	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

b: az 142.5 el 29.0 pa -24.1 m: az 103.5 el 18.3 pa -66.8 u,v (fr/asec) 4586.619 3766.493 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0073/bm..1970YE Output file: /Exps/c201e/v1/1234/No0073/bm.W.108.1970YE



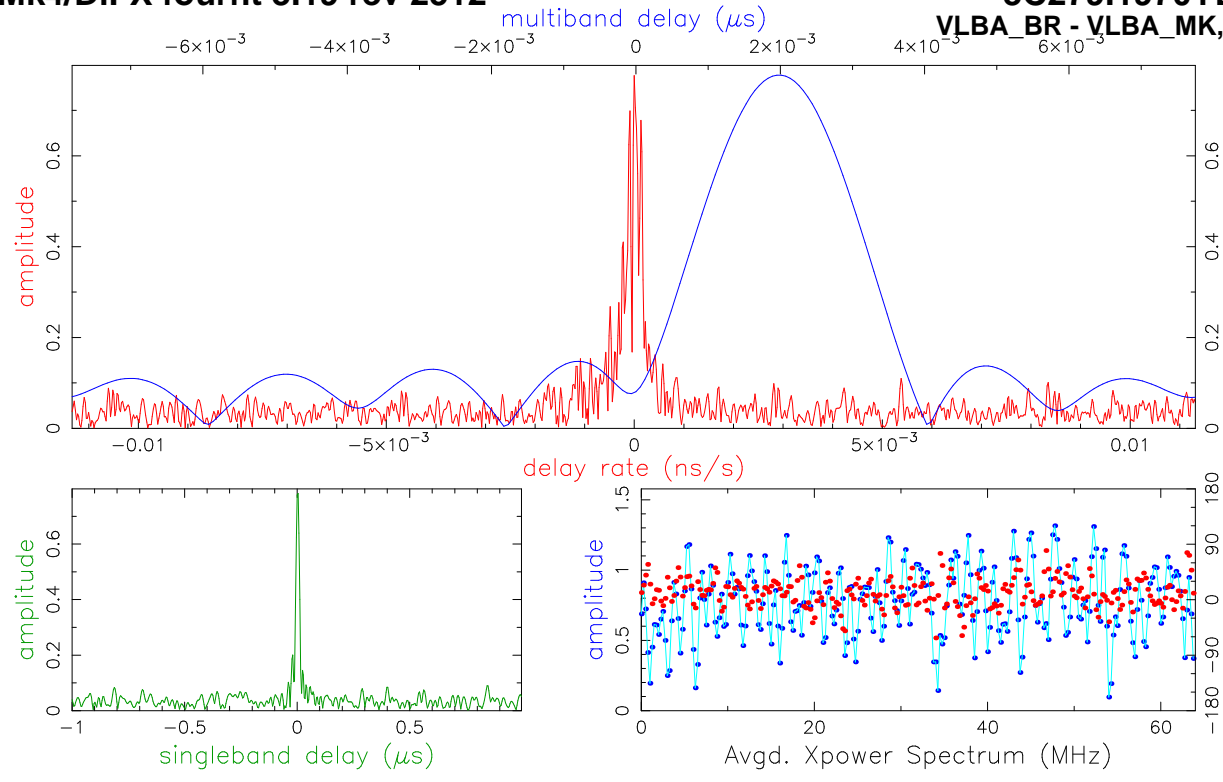
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-151.3	-137.3	-128.7	-109.9	-117.6	-124.4	-134.4	-150.0	Phase	-130.7
	0.8	0.8	0.8	0.8	0.9	0.7	0.8	0.5	Ampl.	0.8
	257.3	258.1	257.7	257.5	257.7	257.5	257.4	256.8	Sbd box	257.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
b	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	3.57101199052E+03	Apriori delay (usec)	3.57100954999E+03	Resid mbdelay (usec)	2.44053E-03	+/-	3.9E-05
Sband delay (usec)	3.57101163324E+03	Apriori clock (usec)	-9.6010284E+00	Resid sbdelay (usec)	2.08325E-03	+/-	3.1E-04
Phase delay (usec)	3.57100954578E+03	Apriori clockrate (us/s)	-5.3299997E-07	Resid phdelay (usec)	-4.21342E-06	+/-	1.3E-07
Delay rate (us/s)	-7.98428949849E-01	Apriori rate (us/s)	-7.98428951738E-01	Resid rate (us/s)	1.88901E-09	+/-	1.3E-09
Total phase (deg)	98.4	Apriori accel (us/s/s)	-2.37393837946E-05	Resid phase (deg)	-130.7	+/-	4.1

ph/seg (deg)	56.6	RMS	78.8	Theor.	9.5	Amplitude	0.773 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	78.8	Search (1024X32)	0.757	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	15.8	Inc. seg. avg.	1.318	Inc. frq. avg.	0.775	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	13.3	Inc. frq. avg.	0.775	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

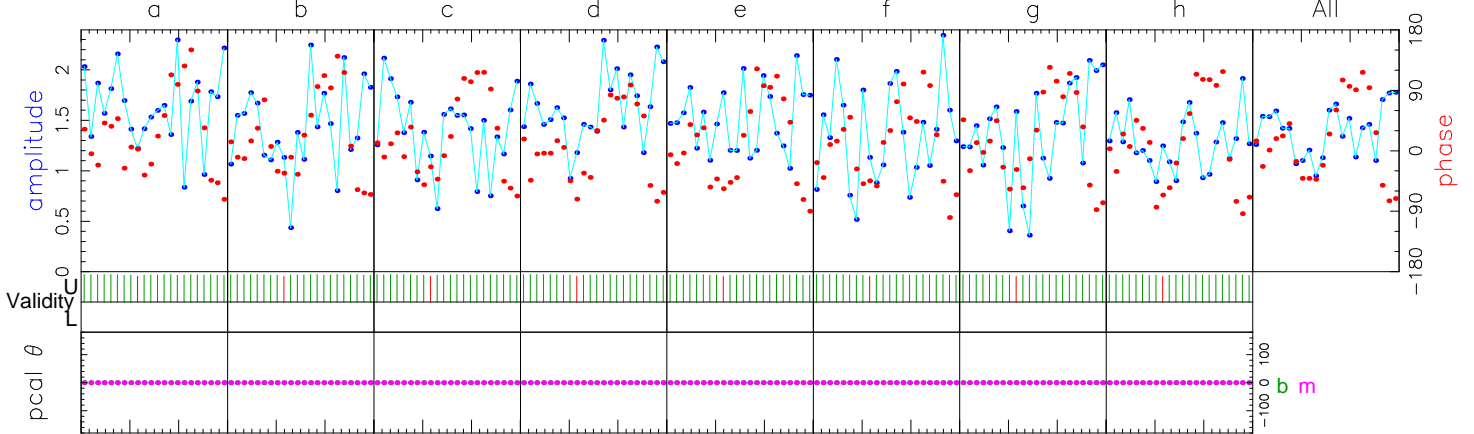


Fringe quality 7

SNR 29.1
Int time 177.698
Amp 0.799
Phase 11.9
PFD 0.0e+00
Delays (us)
SBD 0.002087
MBD 0.002045
Fringe rate (Hz)
-0.000140
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:06053
2020:206:155311
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



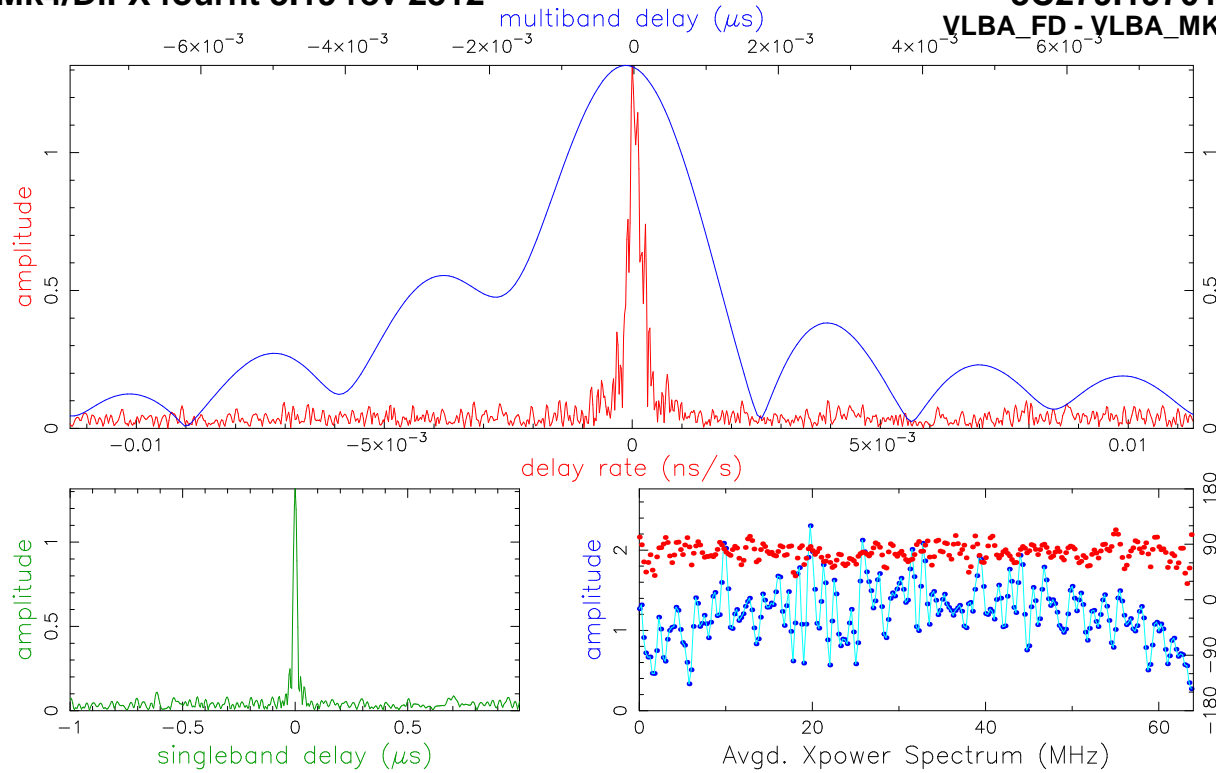
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
b:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
b	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		3.57101159540E+03				3.57100954999E+03			2.04541E-03	+/- 3.7E-05
Sband delay (usec)		3.57101163699E+03				-9.6010284E+00			2.08700E-03	+/- 3.0E-04
Phase delay (usec)		3.57100955037E+03				-5.3299997E-07			3.84563E-07	+/- 1.3E-07
Delay rate (us/s)		-7.98428953361E-01				-7.98428951738E-01			-1.62260E-09	+/- 1.2E-09
Total phase (deg)			240.9						11.9	+/- 3.9
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

b: az 142.5 el 29.0 pa -24.1 m: az 103.5 el 18.3 pa -66.8 u,v (fr/asec) 4586.619 3766.493 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0073/bm..1970YE Output file: /Exps/c201e/v1/1234/No0073/bm.W.48.1970YE

Mk4/DiFX fourfit 3.19 rev 2512

3C279.1970YE, No0073, fm
VLBA_FD - VLBA_MK, fgroup W, pol LL

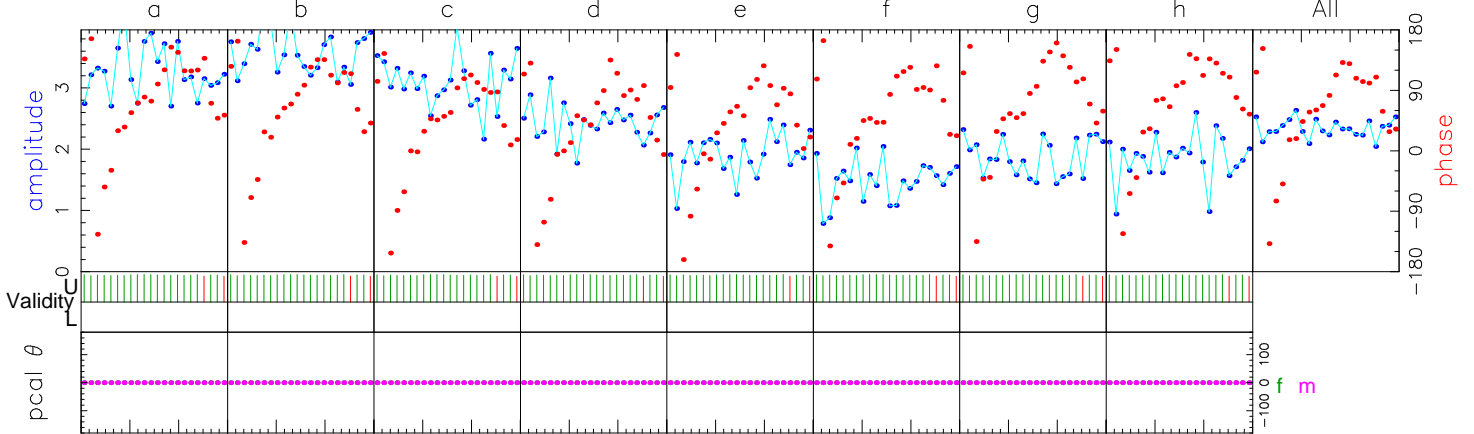


Fringe quality 3

SNR 47.8
Int time 176.157
Amp 1.316
Phase 76.7
PFD 0.0e+00
Delays (us)
SBD -0.000175
MBD -0.000113
Fringe rate (Hz)
-0.000323
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155307
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



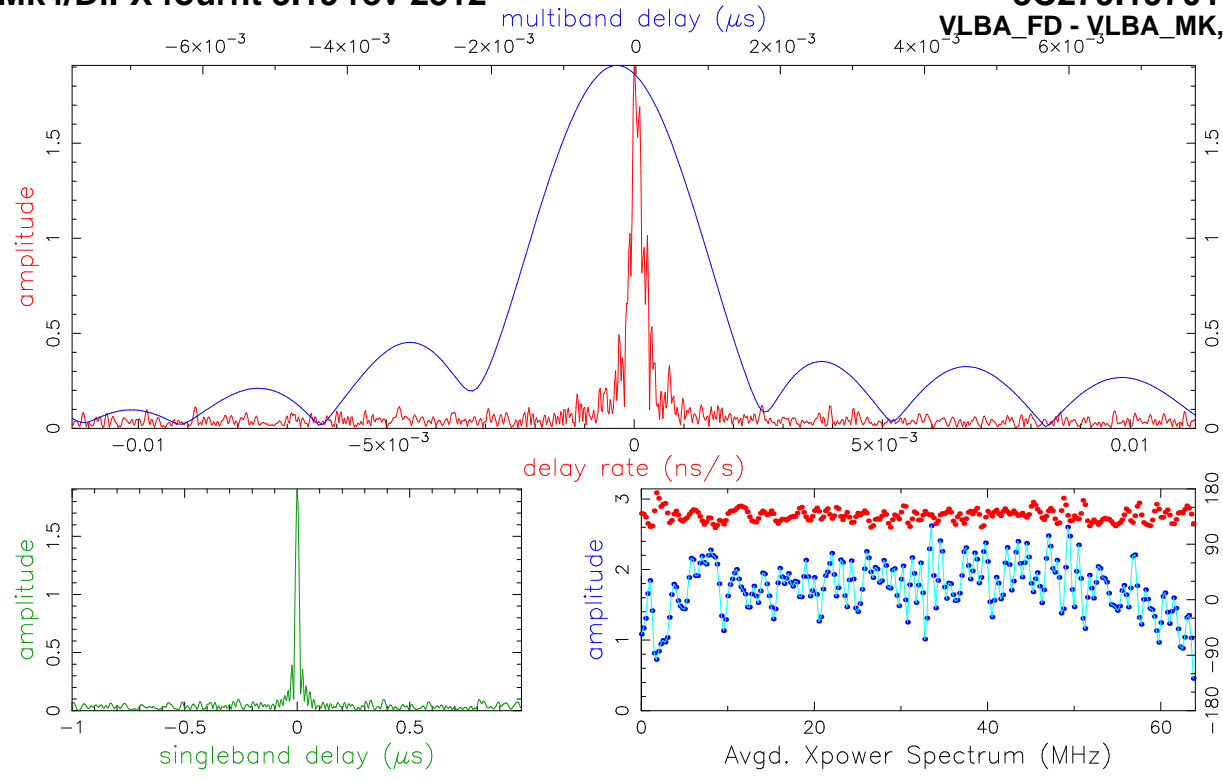
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		257.0
f	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	9.58858249577E+03	Apriori delay (usec)	9.58858260899E+03	Resid mbdelay (usec)	-1.13219E-04	+/-	2.3E-05
Sband delay (usec)	9.58858243424E+03	Apriori clock (usec)	-4.2622585E+00	Resid sbdelay (usec)	-1.74750E-04	+/-	1.8E-04
Phase delay (usec)	9.58858261146E+03	Apriori clockrate (us/s)	-3.8199999E-07	Resid phdelay (usec)	2.47207E-06	+/-	7.7E-08
Delay rate (us/s)	-9.72915679113E-01	Apriori rate (us/s)	-9.72915675359E-01	Resid rate (us/s)	-3.75394E-09	+/-	7.4E-10
Total phase (deg)	54.5	Apriori accel (us/s/s)	-5.29841842544E-05	Resid phase (deg)	76.7	+/-	2.4

ph/seg (deg)	64.2	RMS	Theor.	Amplitude	1.316 +/- 0.028	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	78.7	64.2	5.6	Search (1024X32)	1.306	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
ph/frq (deg)	17.1	78.7	9.8	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	30.3	17.1	3.4	Inc. seg. avg.	2.331	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
		30.3	5.9	Inc. frq. avg.	1.357	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

f: az 153.6 el 50.1 pa -22.3 m: az 103.5 el 18.3 pa -66.8 u,v (fr/asec) 5575.304 1932.469 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0073/fm..1970YE Output file: /Exps/c201e/v1/1234/No0073/fm.W.19.1970YE

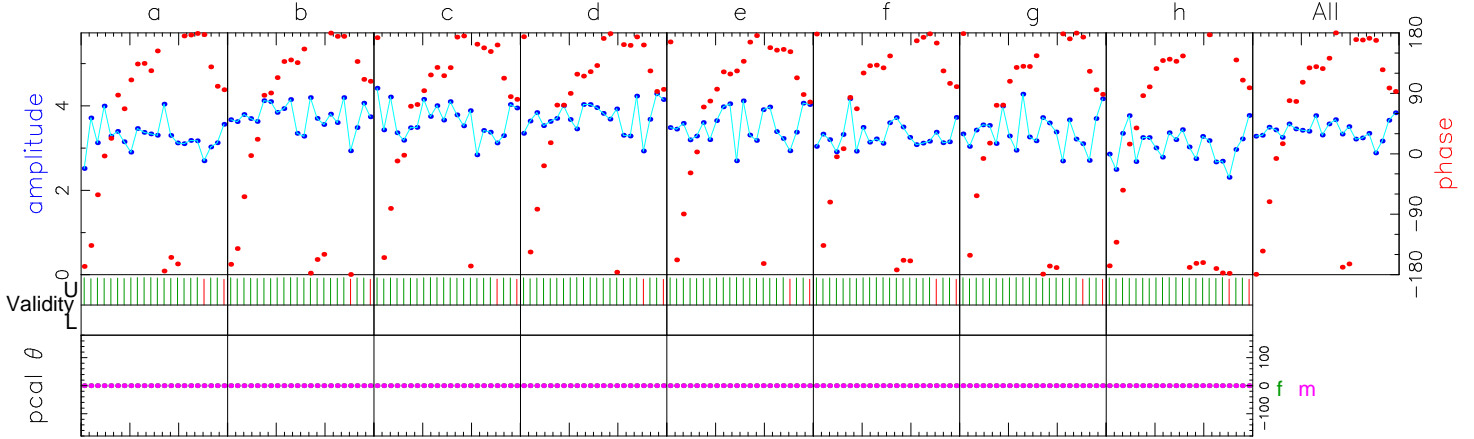


Fringe quality 5

SNR 69.3
Int time 176.156
Amp 1.909
Phase 140.9
PFD 0.0e+00
Delays (us)
SBD 0.000155
MBD -0.000260
Fringe rate (Hz)
-0.000353
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155309
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

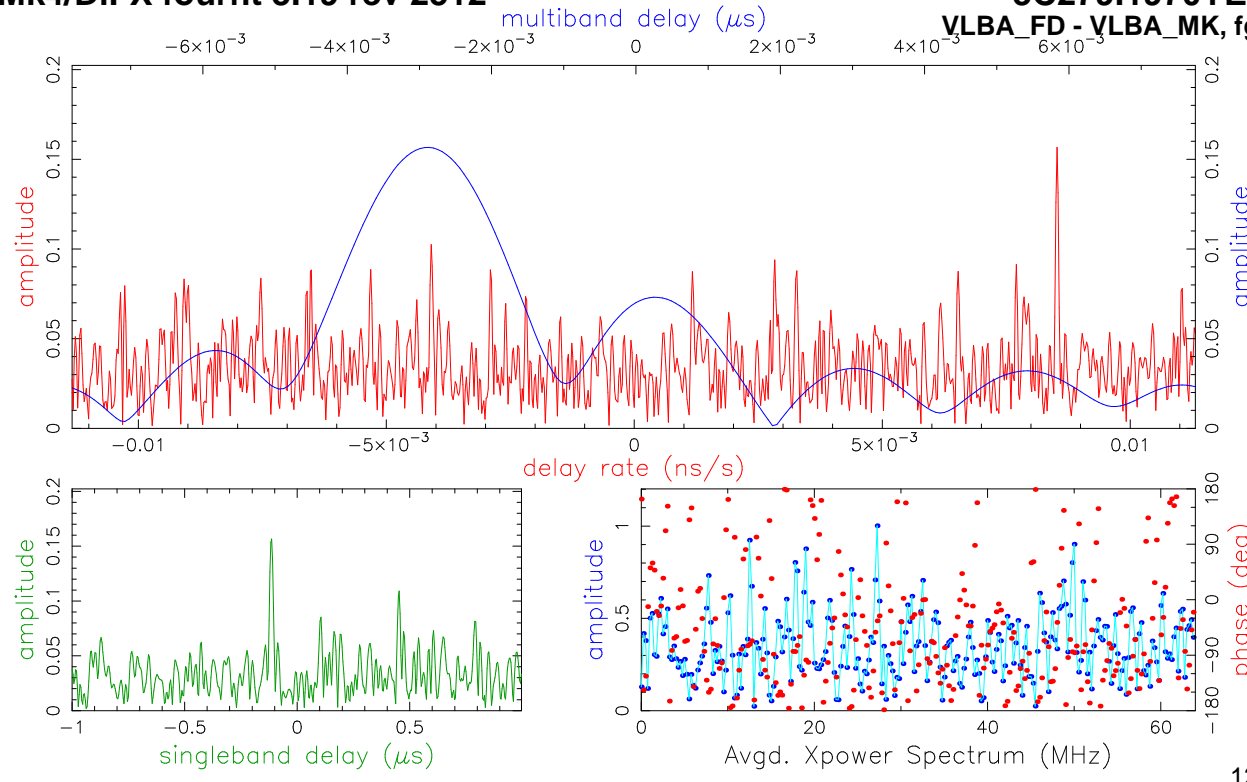
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
f	1000	1000	1000	1000	1000	1000	1000	1000	140.9	140.9
m	1000	1000	1000	1000	1000	1000	1000	1000	1.9	1.9
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	257.0	257.0
f:m	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		
m	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	9.58858234905E+03				9.58858260899E+03				-2.59937E-04	+/- 1.6E-05
Sband delay (usec)	9.58858276374E+03				-4.2622585E+00				1.54750E-04	+/- 1.2E-04
Phase delay (usec)	9.58858261354E+03				-3.8199999E-07				4.54392E-06	+/- 5.3E-08
Delay rate (us/s)	-9.72915679454E-01				-9.72915675359E-01				-4.09546E-09	+/- 5.1E-10
Total phase (deg)			118.8		-5.29841842544E-05				140.9	+/- 1.7
RMS	64.2	3.9			1.865					
ph/seg (deg)	79.6	6.8			1.909 +/- 0.028					
amp/seg (%)	8.4	2.3			1.865					
ph/frq (deg)	8.9	4.1			1.865					
amp/frq (%)					1.865					

f: az 153.6 el 50.1 pa -22.3 m: az 103.5 el 18.3 pa -66.8 u,v (fr/asec) 5575.304 1932.469 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0073/fm..1970YE Output file: /Exps/c201e/v1/1234/No0073/fm.W.31.1970YE

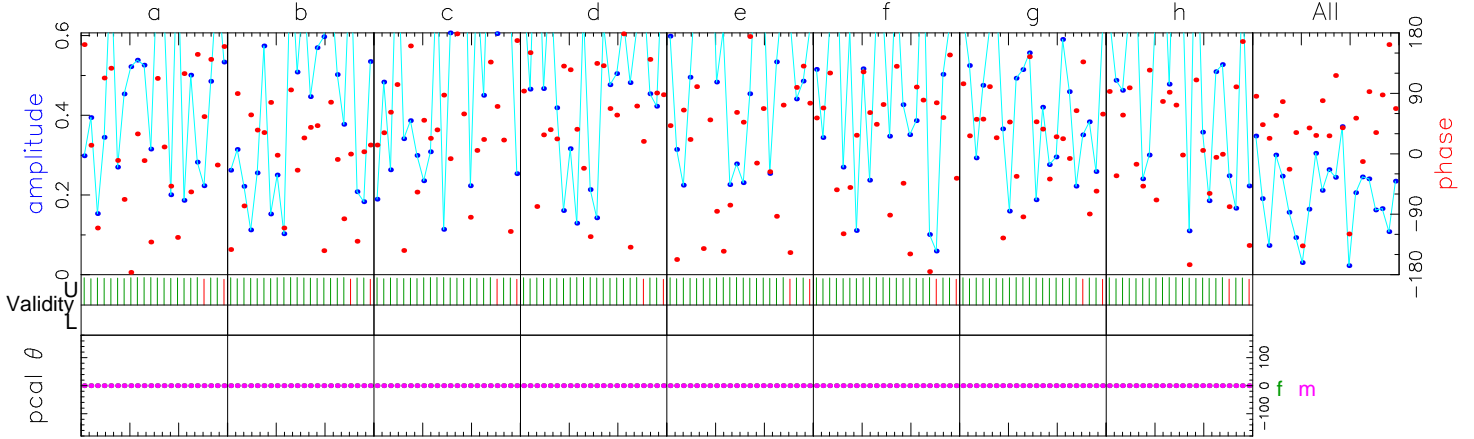


Fringe quality 0

SNR 5.7
Int time 176.156
Amp 0.202
Phase 55.0
PFD 6.7e-01
Delays (us)
SBD -0.114756
MBD -0.002896
Fringe rate (Hz) 0.734962
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155311
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
f	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
f:m	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		
m	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		9.58847033814E+03				9.58858260899E+03			Resid mbdelay (usec)	-2.89585E-03 +/- 1.9E-04
Sband delay (usec)		9.58846785274E+03				-4.2622585E+00			Resid sbdelay (usec)	-1.14756E-01 +/- 1.5E-03
Phase delay (usec)		9.58858261076E+03				-3.8199999E-07			Resid phdelay (usec)	1.77323E-06 +/- 6.4E-07
Delay rate (us/s)		-9.72907143181E-01				-9.72915675359E-01			Resid rate (us/s)	8.53218E-06 +/- 6.2E-09
Total phase (deg)			32.9			-5.29841842544E-05			Resid phase (deg)	55.0 +/- 19.9

ph/seg (deg) 65.4 46.8
amp/seg (%) 63.9 81.6
ph/frq (deg) 22.9 28.2
amp/frq (%) 37.0 49.2

RMS Theor. Amplitude 0.202 +/- 0.035
Search (1024X32) 0.149
Interp. 0.000
Inc. seg. avg. 0.191
Inc. frq. avg. 0.188

Group delay (usec)(sbd) 9.58847033814E+03
Sband delay (usec) 9.58846785274E+03
Phase delay (usec) 9.58858261076E+03
Delay rate (us/s) -9.72907143181E-01
Total phase (deg) 32.9

Apriori delay (usec) 9.58858260899E+03
Apriori clock (usec) -4.2622585E+00
Apriori clockrate (us/s) -3.8199999E-07
Apriori rate (us/s) -9.72915675359E-01
Apriori accel (us/s/s) -5.29841842544E-05

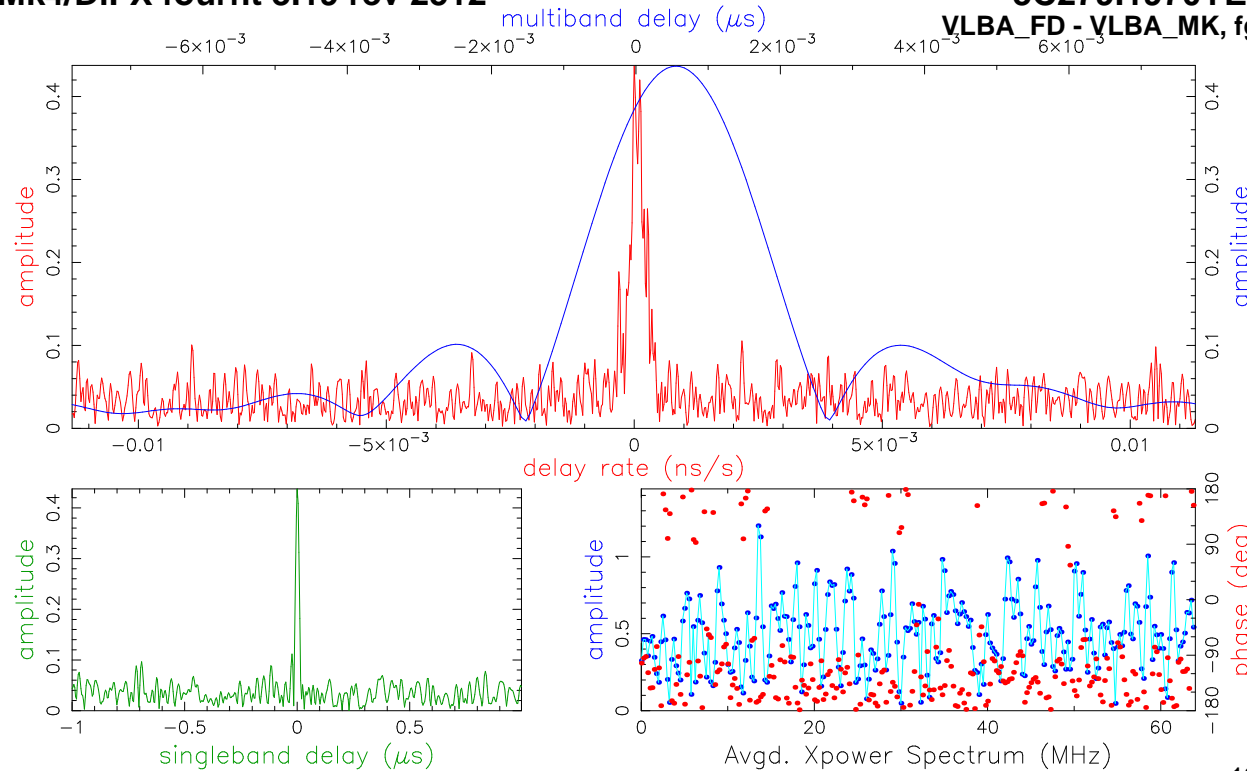
Pcal mode: MANUAL, MANUAL
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2
Sample rate(MISamp/s): 128
Data rate(Mb/s): 2048

PC period (AP's) 5, 5
SampCntNorm: enabled
nlags: 256 t_cohere infinite

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

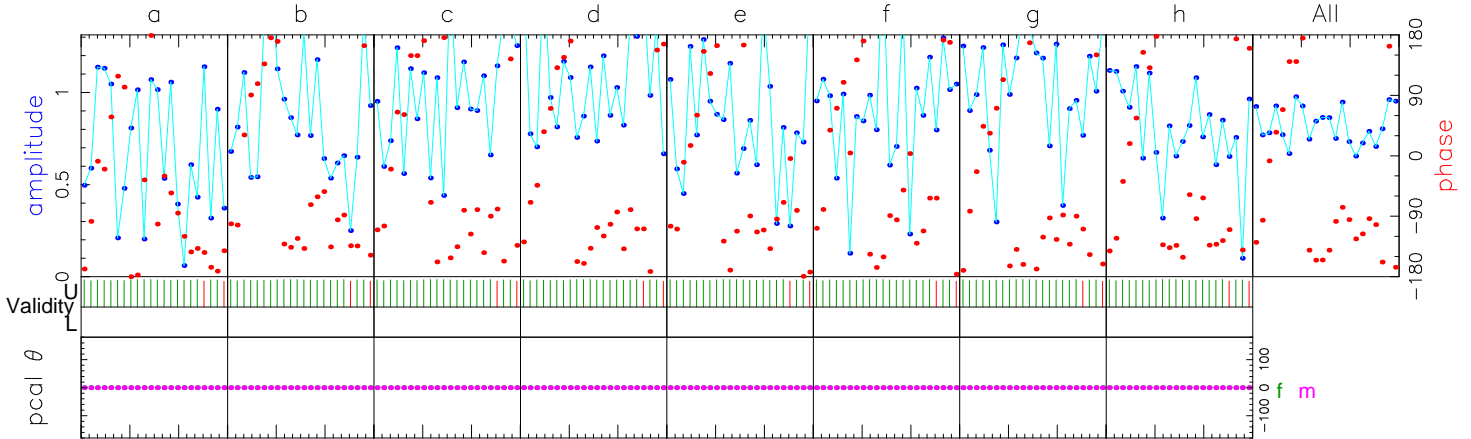
f: az 153.6 el 50.1 pa -22.3
m: az 103.5 el 18.3 pa -66.8
u,v (fr/asec) 5575.304 1932.469

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0073/fm..1970YE Output file: /Exps/c201e/v1/1234/No0073/fm.W.45.1970YE simultaneous interpolator



Fringe quality 9
SNR 15.9
Int time 176.157
Amp 0.438
Phase -139.1
PFD 0.0e+00
Delays (us)
SBD 0.000596
MBD 0.000572
Fringe rate (Hz) -0.000909
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155312
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-127.1	-142.8	-142.4	-136.3	-138.4	-135.0	-148.1	-133.8	Phase	-139.1
	0.2	0.5	0.5	0.5	0.4	0.4	0.6	0.4	Ampl.	0.4
	258.4	256.8	256.8	257.3	257.5	256.6	257.2	257.5	Sbd box	257.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
f:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

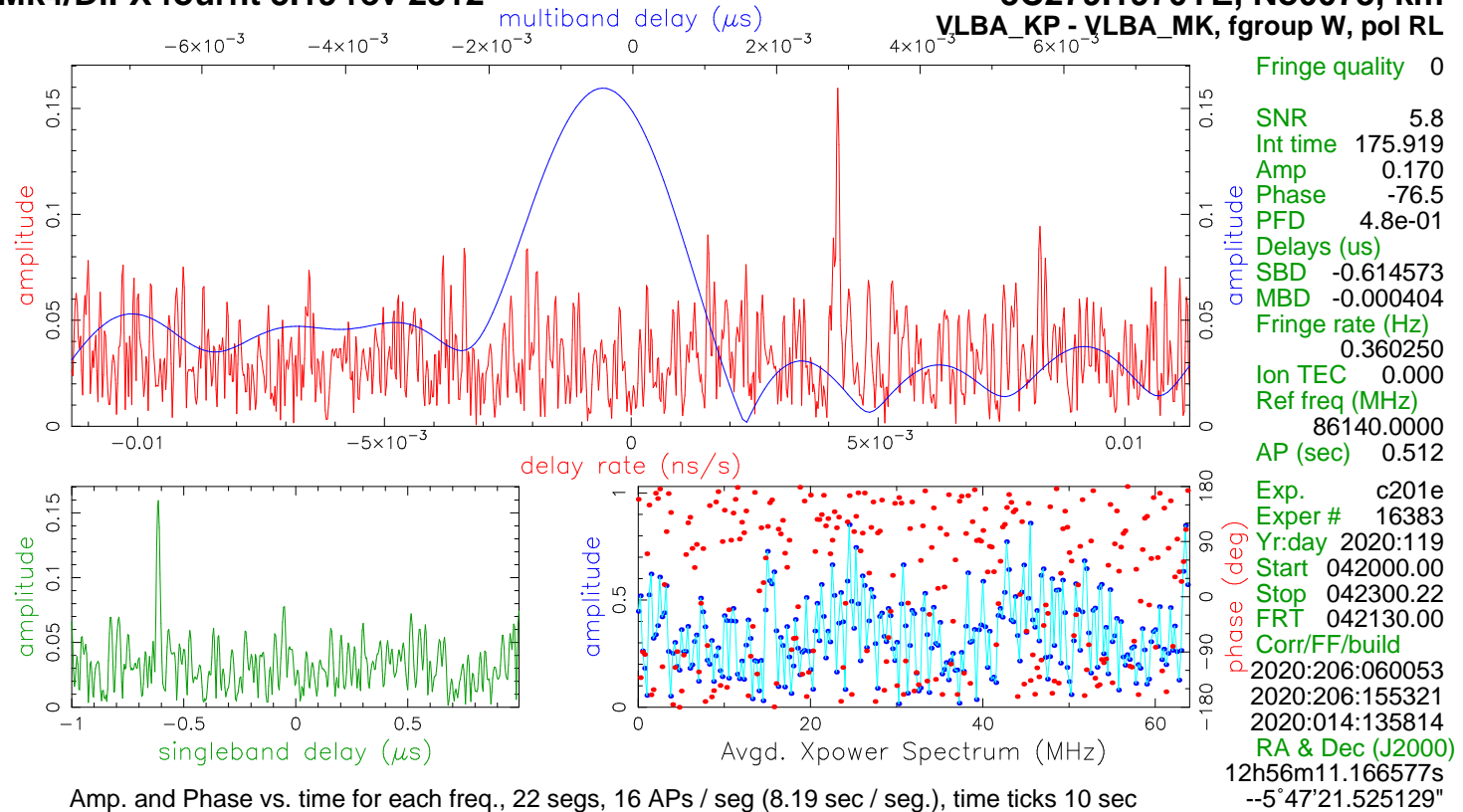
Group delay (usec)(sbd) 9.58858318074E+03 Apriori delay (usec) 9.58858260899E+03 Resid mbdelay (usec) 5.71750E-04 +/- 6.8E-05
Sband delay (usec) 9.58858320474E+03 Apriori clock (usec) -4.2622585E+00 Resid sbdelay (usec) 5.95750E-04 +/- 5.4E-04
Phase delay (usec) 9.58858260451E+03 Apriori clockrate (us/s) -3.8199999E-07 Resid phdelay (usec) -4.48612E-06 +/- 2.3E-07
Delay rate (us/s) -9.72915685909E-01 Apriori rate (us/s) -9.72915675359E-01 Resid rate (us/s) -1.05504E-08 +/- 2.2E-09
Total phase (deg) 198.8 Apriori accel (us/s/s) -5.29841842544E-05 Resid phase (deg) -139.1 +/- 7.2

RMS Theor. Amplitude 0.438 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 68.8 16.9 Search (1024X32) 0.425 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 90.7 29.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg) 7.1 10.2 Inc. seg. avg. 0.788 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
amp/frq (%) 22.5 17.8 Inc. frq. avg. 0.432 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

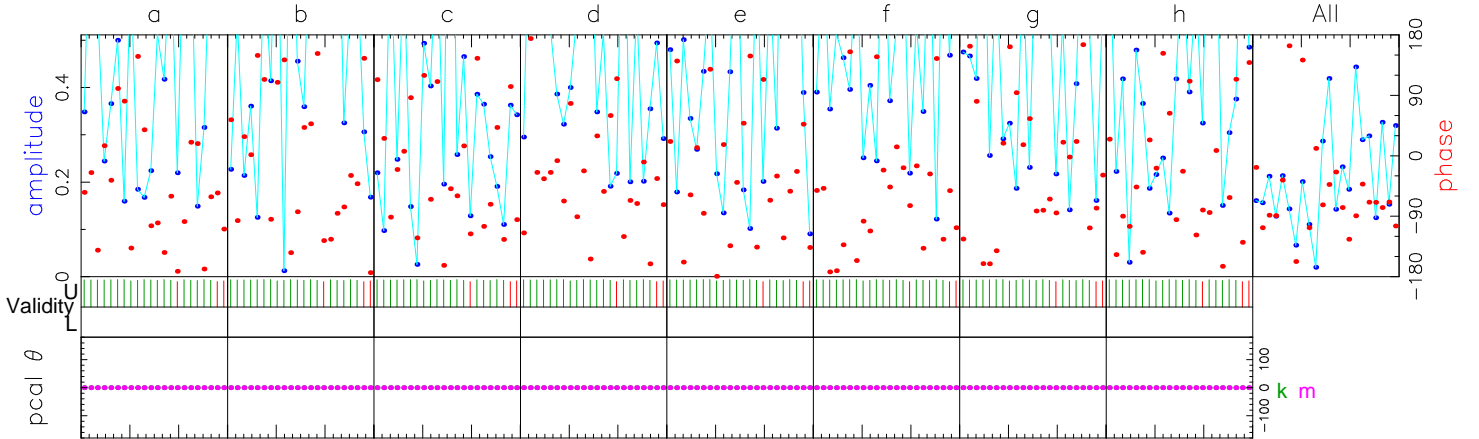
f: az 153.6 el 50.1 pa -22.3 m: az 103.5 el 18.3 pa -66.8 u,v (fr/asec) 5575.304 1932.469 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0073/fm..1970YE Output file: /Exps/c201e/v1/1234/No0073/fm.W.57.1970YE

Mk4/DiFX fourfit 3.19 rev 2512

3C279.1970YE, No0073, km
VLBA_KP - VLBA_MK, fgroup W, pol RL



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-79.2	-110.7	-39.6	-61.5	-71.1	-79.7	-100.4	-74.5	Phase	-76.5
	0.2	0.1	0.1	0.2	0.2	0.3	0.1	0.1	Ampl.	0.2
	424.3	437.3	90.5	332.1	242.8	71.3	381.3	400.9	Sbd box	99.7
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	8.47245331296E+03		Apriori delay (usec)	8.47306309221E+03	Resid mbdelay (usec)	-4.04241E-04	+/-	1.9E-04		
Sband delay (usec)	8.47244851971E+03		Apriori clock (usec)	-8.5249748E+00	Resid sbdelay (usec)	-6.14573E-01	+/-	1.5E-03		
Phase delay (usec)	8.47306308974E+03		Apriori clockrate (us/s)	-4.8560000E-07	Resid phdelay (usec)	-2.46790E-06	+/-	6.3E-07		
Delay rate (us/s)	-8.13440298491E-01		Apriori rate (us/s)	-8.13444480642E-01	Resid rate (us/s)	4.18215E-06	+/-	6.1E-09		
Total phase (deg)		198.0	Apriori accel (us/s/s)	-4.73036070423E-05	Resid phase (deg)	-76.5	+/-	19.6		

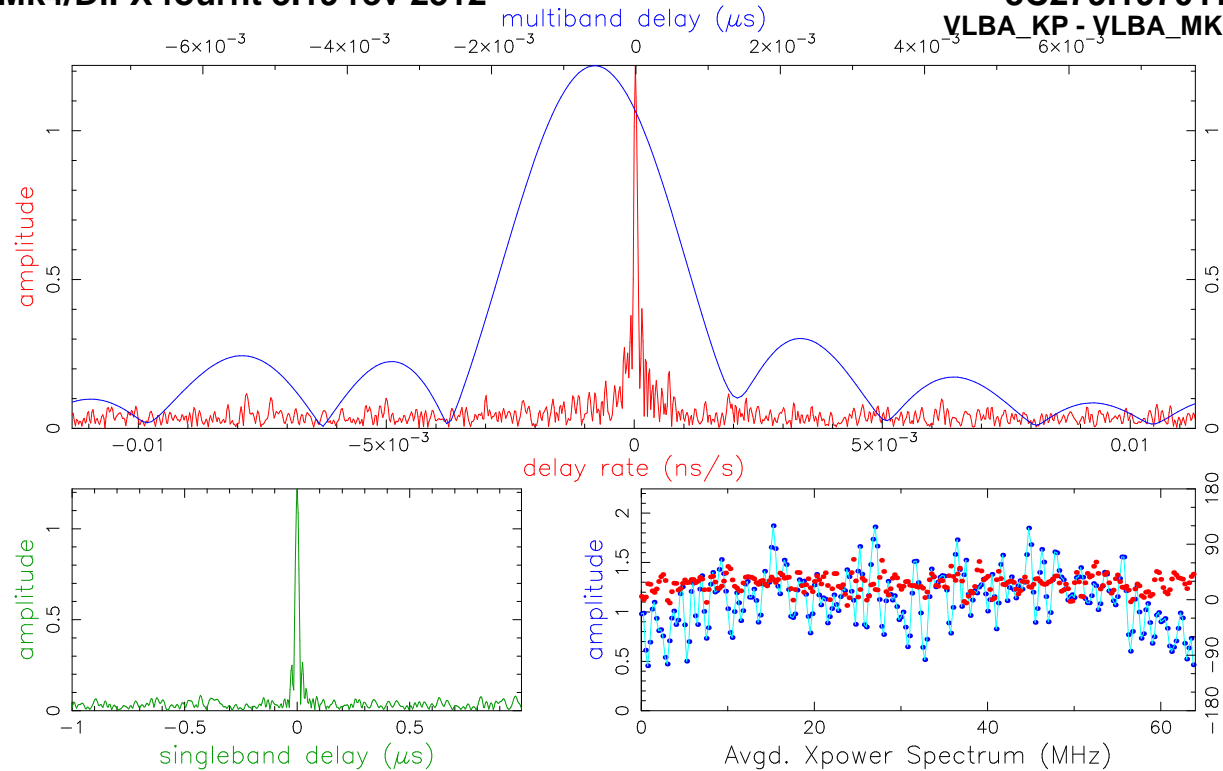
	RMS	Theor.	Amplitude	0.170 +/- 0.029	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	54.1	46.0	Search (1024X32)	0.155	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	72.2	80.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	23.7	27.7	Inc. seg. avg.	0.168	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	37.4	48.4	Inc. frq. avg.	0.158	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

k: az 144.1 el 45.6 pa -29.6 m: az 103.5 el 18.3 pa -66.8 u,v (fr/asec) 4660.121 2059.940 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0073/km..1970YE Output file: /Exps/c201e/v1/1234/No0073/km.W.114.1970YE

Mk4/DiFX fourfit 3.19 rev 2512

3C279.1970YE, No0073, km
VLBA_KP - VLBA_MK, fgroup W, pol LL

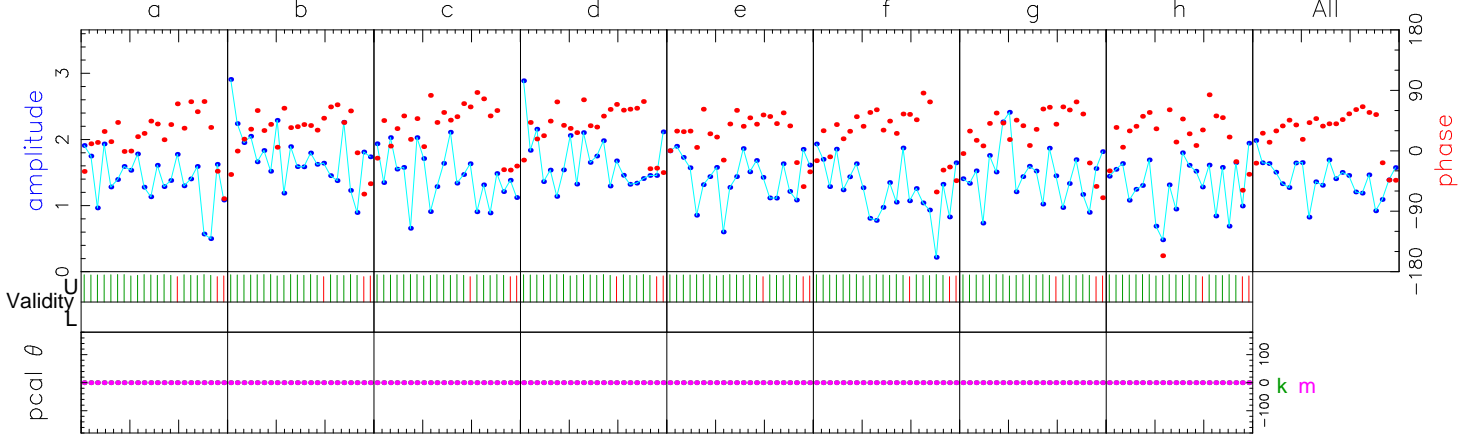


Fringe quality 8

SNR 44.2
Int time 175.919
Amp 1.219
Phase 28.7
PFD 0.0e+00
Delays (us)
SBD -0.000376
MBD -0.000581
Fringe rate (Hz) 0.002639
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201e
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155311
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

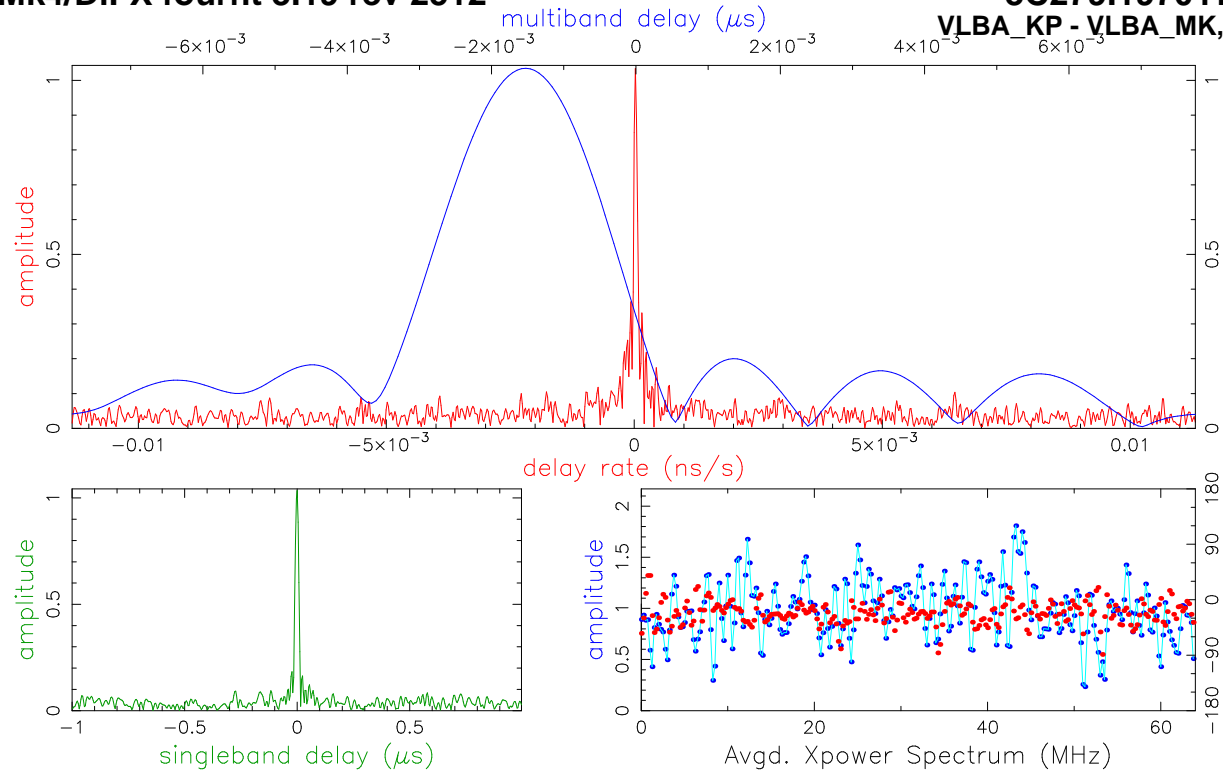


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
k:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	8.47306251094E+03		Apriori delay (usec)		8.47306309221E+03		Resid mbdelay (usec)		-5.81263E-04	+/- 2.5E-05
Sband delay (usec)	8.47306271671E+03		Apriori clock (usec)		-8.5249748E+00		Resid sbdelay (usec)		-3.75500E-04	+/- 1.9E-04
Phase delay (usec)	8.47306309313E+03		Apriori clockrate (us/s)		-4.8560000E-07		Resid phdelay (usec)		9.25887E-07	+/- 8.4E-08
Delay rate (us/s)	-8.13444450006E-01		Apriori rate (us/s)		-8.13444480642E-01		Resid rate (us/s)		3.06366E-08	+/- 8.0E-10
Total phase (deg)	303.3		Apriori accel (us/s/s)		-4.73036070423E-05		Resid phase (deg)		28.7	+/- 2.6

ph/seg (deg) 30.9 6.1 Search (1024X32) 1.185 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 26.6 10.6 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 5.4 3.7 Inc. seg. avg. 1.404 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 11.1 6.4 Inc. frq. avg. 1.220 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
k: az 144.1 el 45.6 pa -29.6 m: az 103.5 el 18.3 pa -66.8 u,v (fr/asec) 4660.121 2059.940 ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0073/km..1970YE Output file: /Exps/c201e/v1/1234/No0073/km.W.46.1970YE simultaneous interpolator

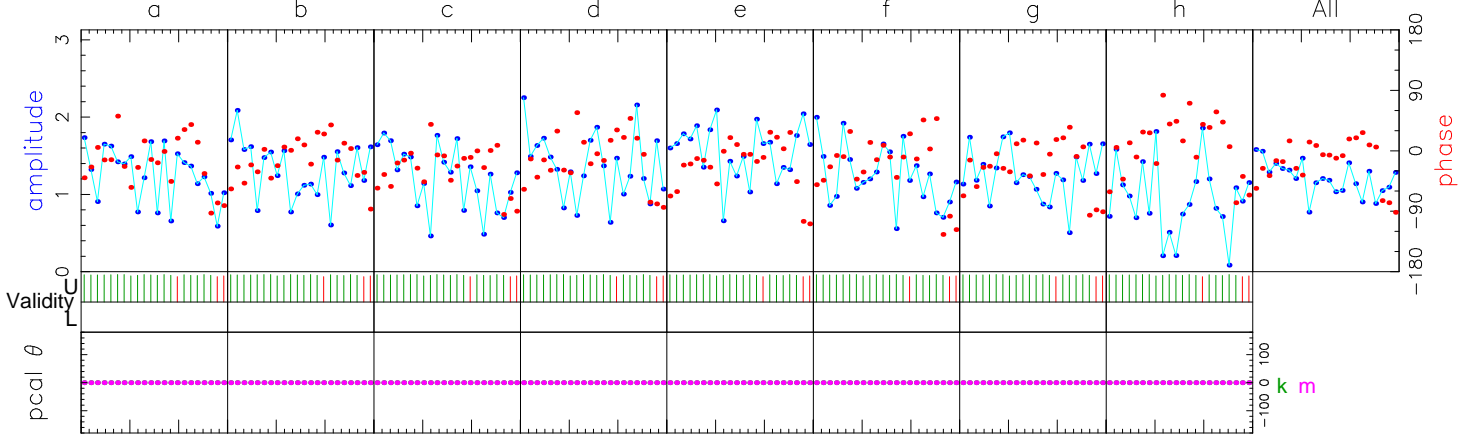
Mk4/DiFX fourfit 3.19 rev 2512

3C279.1970YE, No0073, km
VLBA_KP - VLBA_MK, fgroup W, pol RR



Fringe quality 8
SNR 37.8
Int time 175.918
Amp 1.043
Phase -17.0
PFD 0.0e+00
Delays (us)
SBD -0.001173
MBD -0.001565
Fringe rate (Hz) 0.002614
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155312
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



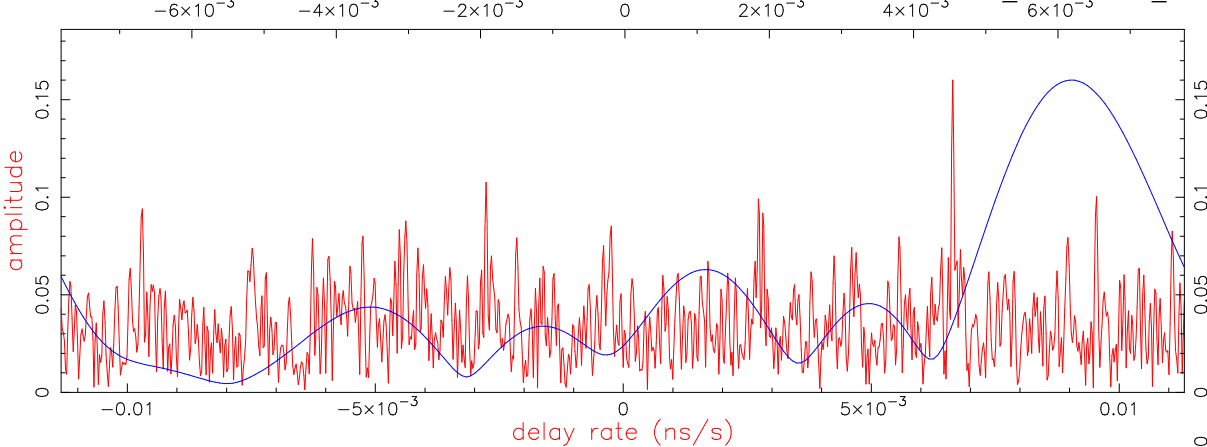
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
k:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
k	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		8.47306152735E+03				8.47306309221E+03			Resid mbdelay (usec)	-1.56486E-03 +/- 2.9E-05
Sband delay (usec)		8.47306191896E+03				-8.5249748E+00			Resid sbdelay (usec)	-1.17325E-03 +/- 2.3E-04
Phase delay (usec)		8.47306309166E+03				-4.8560000E-07			Resid phdelay (usec)	-5.46686E-07 +/- 9.8E-08
Delay rate (us/s)		-8.13444450302E-01				-8.13444480642E-01			Resid rate (us/s)	3.03404E-08 +/- 9.4E-10
Total phase (deg)			257.6			-4.73036070423E-05			Resid phase (deg)	-17.0 +/- 3.0

ph/seg (deg) 32.4 7.1 Amplitude 1.043 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 25.5 12.4 Interp. 1.007 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 10.5 4.3 Search (1024X32) 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 14.3 7.5 Inc. seg. avg. 1.200 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
 k: az 144.1 el 45.6 pa -29.6 m: az 103.5 el 18.3 pa -66.8 u,v (fr/asec) 4660.121 2059.940 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0073/km..1970YE Output file: /Exps/c201e/v1/1234/No0073/km.W.58.1970YE simultaneous interpolator

Mk4/DiFX fourfit 3.19 rev 2512

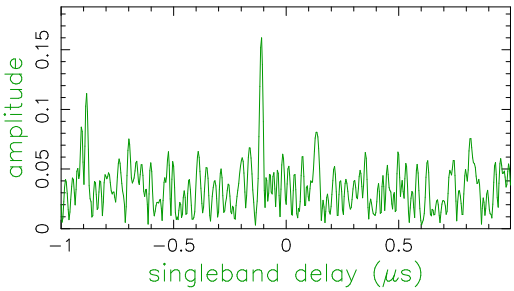
3C279.1970YE, No0073, km
VLBA_KP - VLBA_MK, fgroup W, pol LR

multiband delay (μ s)

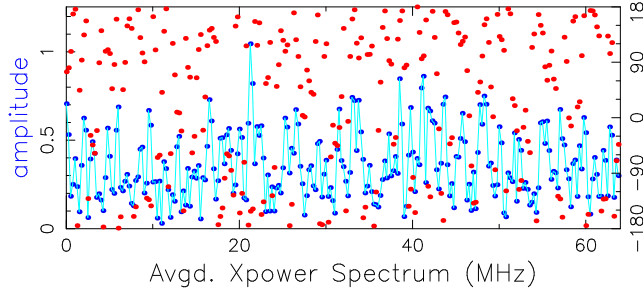


Fringe quality 0

SNR 5.8
Int time 175.918
Amp 0.186
Phase -114.6
PFD 5.0e-01
Delays (us)
SBD -0.110247
MBD 0.006149
Fringe rate (Hz)
0.572932
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

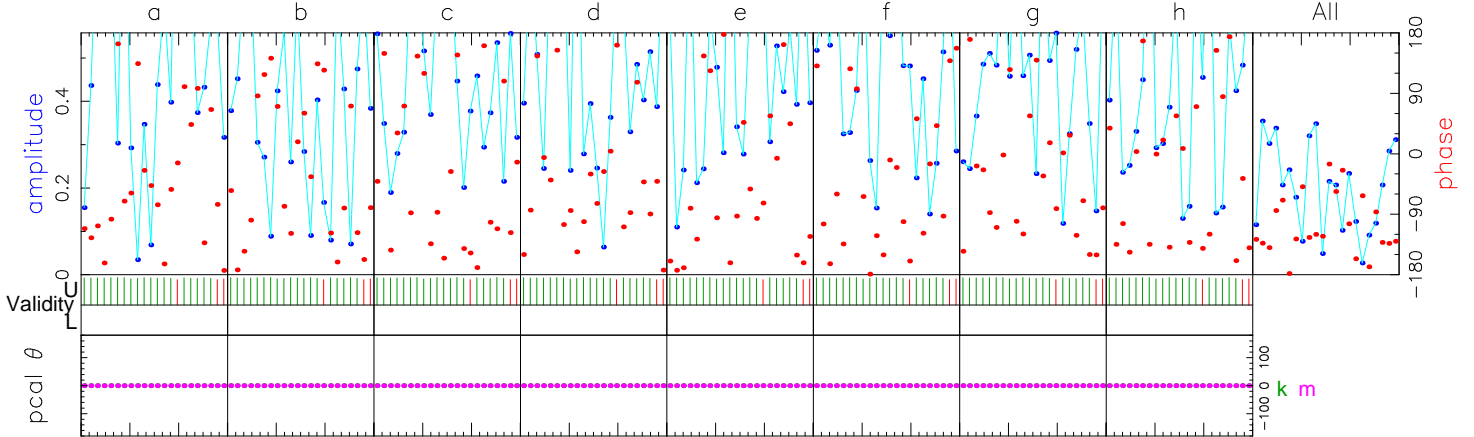


delay rate (ns/s)



Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155314
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



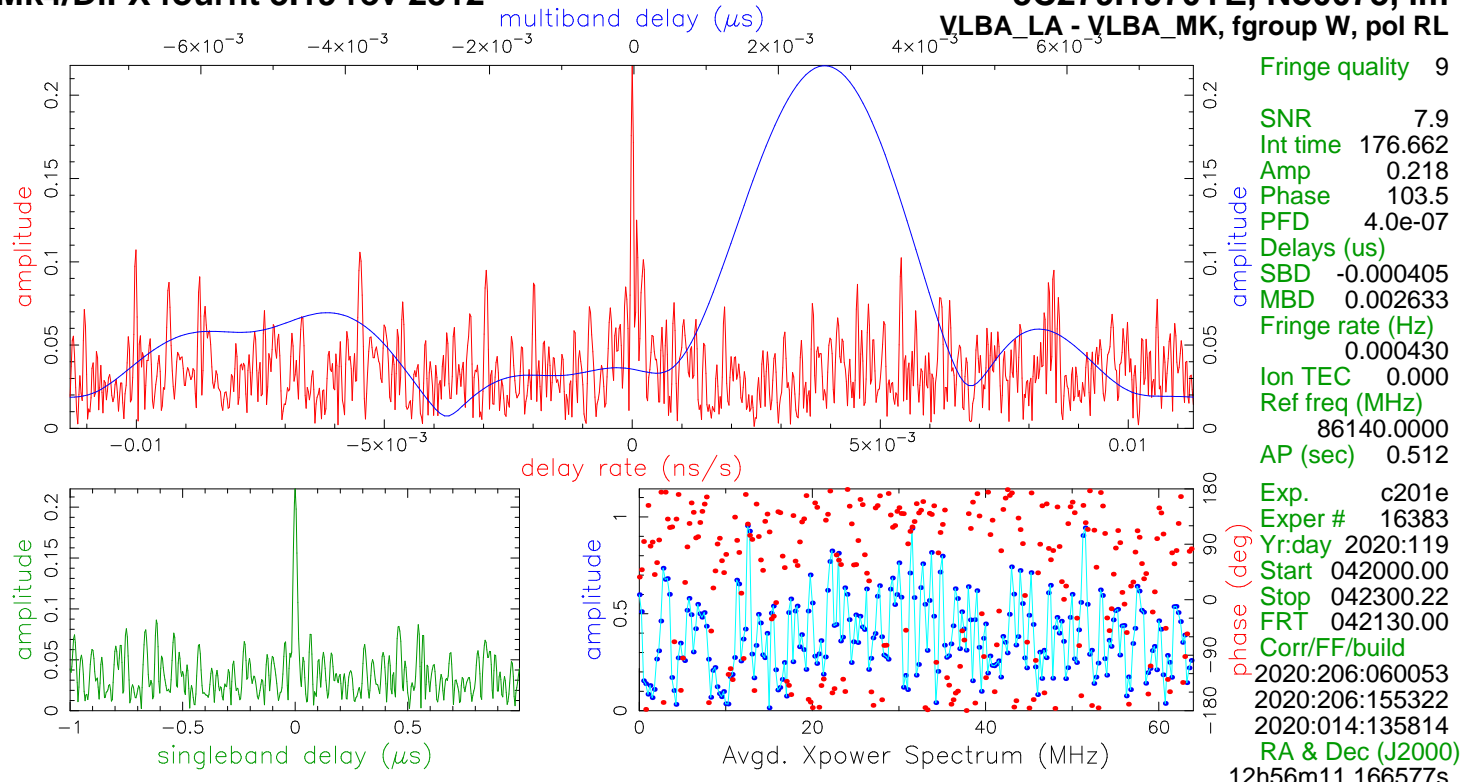
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-91.1	-130.6	-137.7	-111.7	-128.8	-118.2	-68.1	-141.2	Phase	-114.6
	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.2	Ampl.	0.2
	247.4	275.1	155.9	190.0	510.8	269.8	458.4	217.2	Sbd box	228.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
k:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
k:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
k	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
k	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	8.47295986616E+03	Apriori delay (usec)	8.47306309221E+03	Resid mbdelay (usec)	6.14896E-03	+/-	1.9E-04
Sband delay (usec)	8.47295284496E+03	Apriori clock (usec)	-8.5249748E+00	Resid sbdelay (usec)	-1.10247E-01	+/-	1.5E-03
Phase delay (usec)	8.47306308851E+03	Apriori clockrate (us/s)	-4.8560000E-07	Resid phdelay (usec)	-3.69672E-06	+/-	6.3E-07
Delay rate (us/s)	-8.13437829470E-01	Apriori rate (us/s)	-8.13444480642E-01	Resid rate (us/s)	6.65117E-06	+/-	6.1E-09
Total phase (deg)	159.9	Apriori accel (us/s/s)	-4.73036070423E-05	Resid phase (deg)	-114.6	+/-	19.6

ph/seg (deg)	44.4	RMS	46.1	Theor.	46.1	Amplitude	0.186 +/- 0.032	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	67.7	44.4	46.1	Search (1024X32)	0.152	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
ph/frq (deg)	27.2	67.7	80.4	Inc. seg. avg.	0.177	Inc. frq. avg.	0.181	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
amp/frq (%)	22.4	27.2	27.8	Inc. frq. avg.	0.181	Sample rate(MSamp/s): 128		Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	dr window (ns/s) -0.011 0.011

k: az 144.1 el 45.6 pa -29.6 m: az 103.5 el 18.3 pa -66.8 u,v (fr/asec) 4660.121 2059.940 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0073/km..1970YE Output file: /Exps/c201e/v1/1234/No0073/km.W.68.1970YE



Fringe quality 9

SNR 7.9

Int time 176.662

Amp 0.218

Phase 103.5

PFD 4.0e-07

Delays (us)

SBD -0.000405

MBD 0.002633

Fringe rate (Hz)

0.000430

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. c201e

Exper # 16383

Yr:day 2020:119

Start 042000.00

Stop 042300.22

FRT 042130.00

Corr/FF/build

2020:206:060053

2020:206:155322

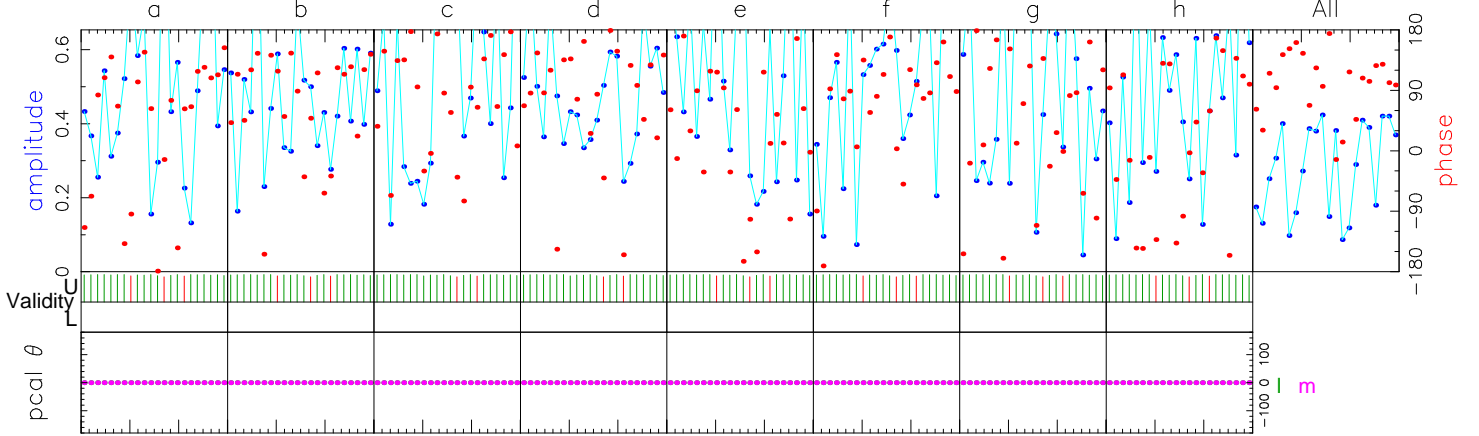
2020:014:135814

RA & Dec (J2000)

12h56m11.166577s

--5°47'21.525129"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	103.5	103.5
m	1000	1000	1000	1000	1000	1000	1000	1000	0.2	0.2
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	256.9	256.9
l:m	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		
m	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	8.21720619033E+03		Apriori delay (usec)		8.21720355768E+03		Resid mbdelay (usec)		2.63266E-03	+/- 1.4E-04
Sband delay (usec)	8.21720315293E+03		Apriori clock (usec)		-1.1921346E+01		Resid sbdelay (usec)		-4.04750E-04	+/- 1.1E-03
Phase delay (usec)	8.21720356102E+03		Apriori clockrate (us/s)		-6.4200002E-07		Resid phdelay (usec)		3.33758E-06	+/- 4.7E-07
Delay rate (us/s)	-9.46033216161E-01		Apriori rate (us/s)		-9.46033221148E-01		Resid rate (us/s)		4.98683E-09	+/- 4.5E-09
Total phase (deg)	268.5		Apriori accel (us/s/s)		-4.66024663133E-05		Resid phase (deg)		103.5	+/- 14.5

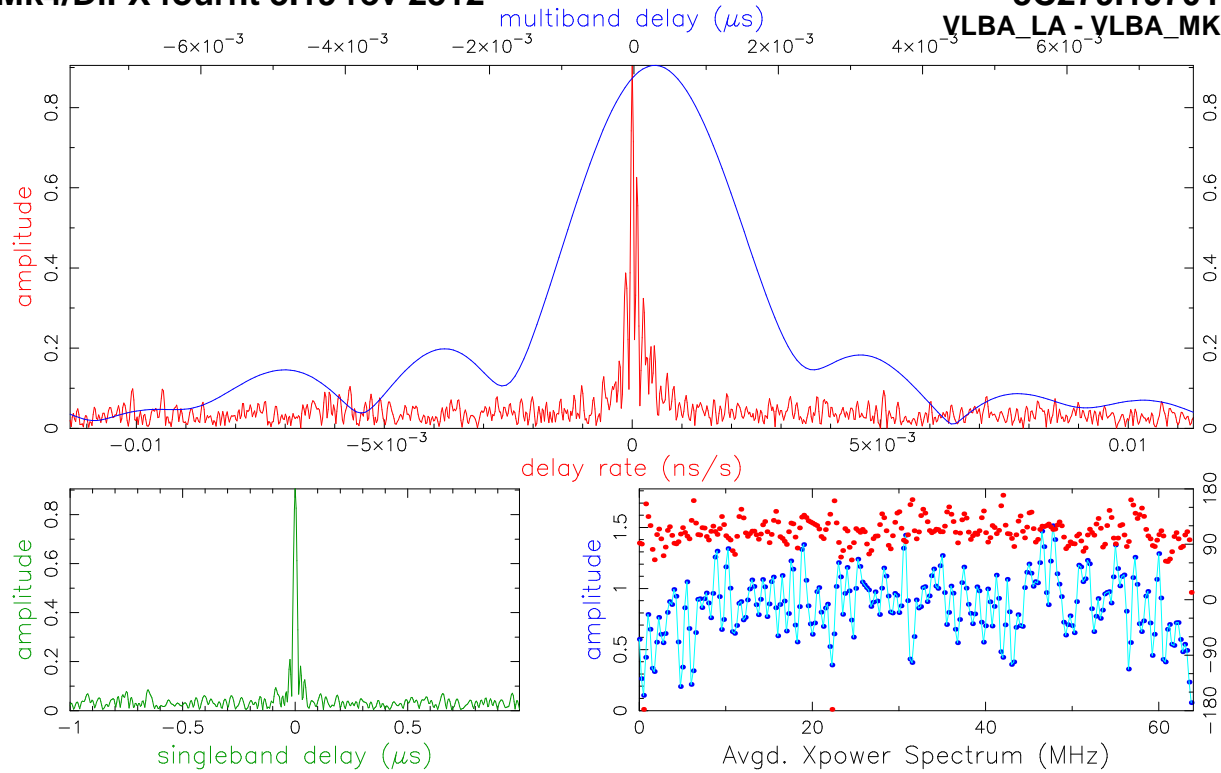
ph/seg (deg) 46.8 33.9 Amplitude 0.218 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 62.4 59.2 Search (1024X32) 0.212 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

ph/frq (deg) 26.4 20.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008

amp/frq (%) 30.7 35.7 Inc. seg. avg. 0.239 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011

l: az 153.0 el 44.7 pa -21.4 m: az 103.5 el 18.3 pa -66.8 u,v (fr/asec) 5424.103 2541.882 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

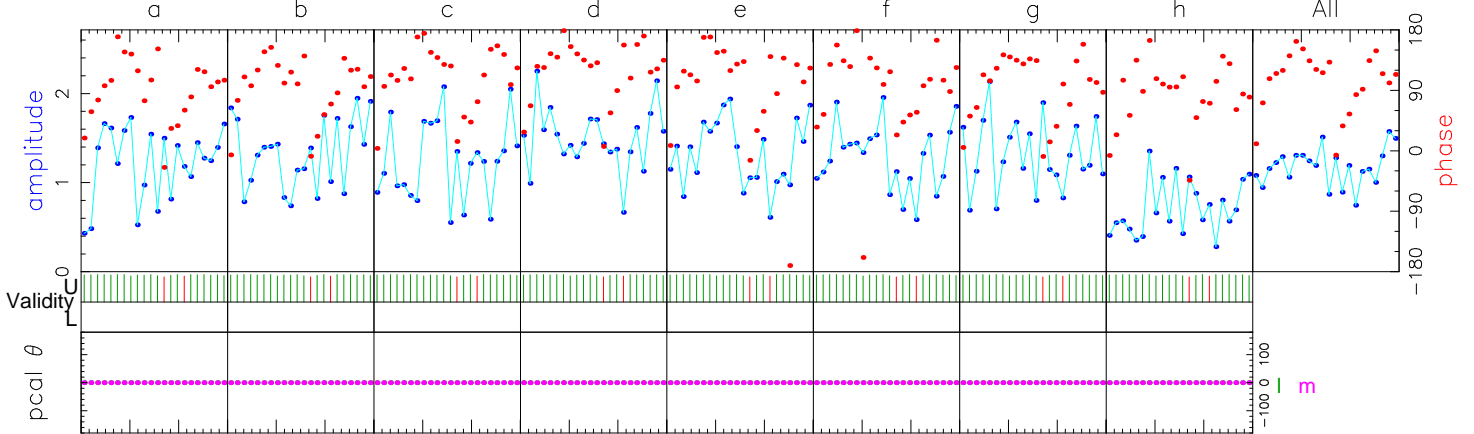


Fringe quality 7

SNR 32.9
Int time 176.662
Amp 0.905
Phase 109.3
PFD 0.0e+00
Delays (us)
SBD 0.000066
MBD 0.000289
Fringe rate (Hz) -0.000949
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155315
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



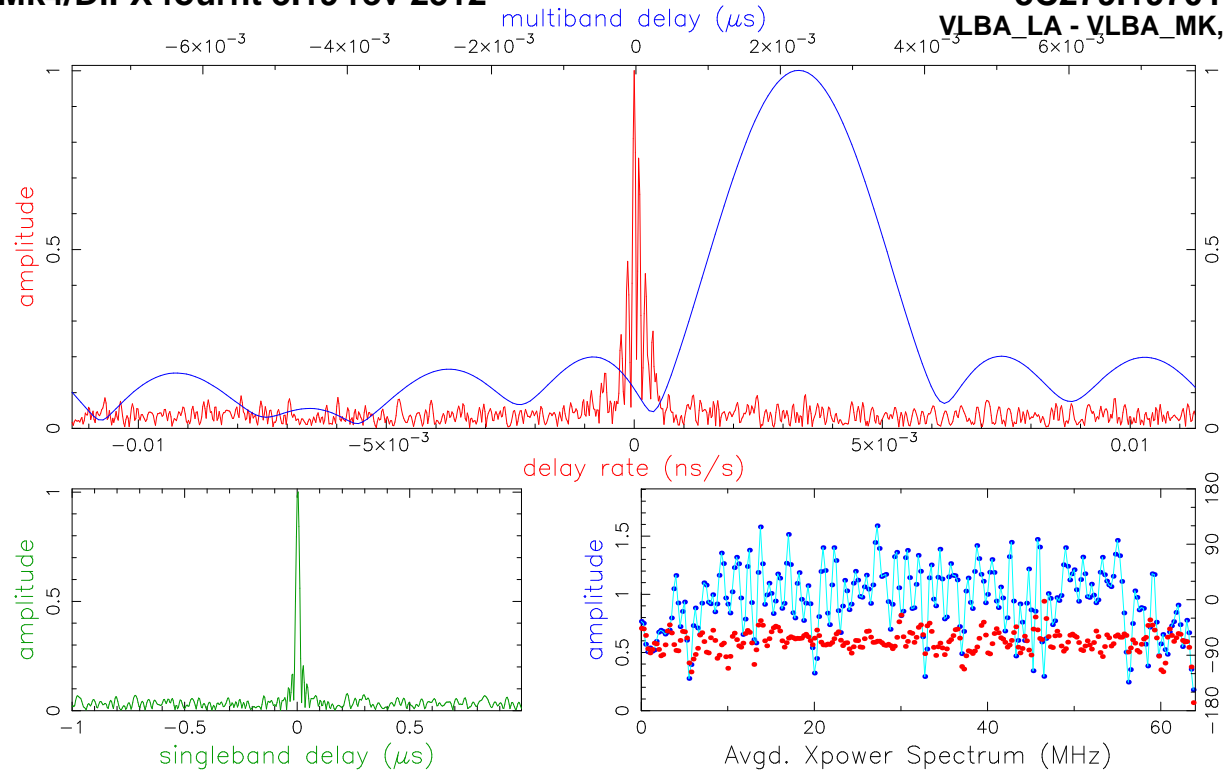
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec)(sbd)	8.21720384697E+03	Apriori delay (usec)	8.21720355768E+03	Resid mbdelay (usec)	2.89294E-04	+/-	3.3E-05
Sband delay (usec)	8.21720362418E+03	Apriori clock (usec)	-1.1921346E+01	Resid sbdelay (usec)	6.65000E-05	+/-	2.6E-04
Phase delay (usec)	8.21720356120E+03	Apriori clockrate (us/s)	-6.4200002E-07	Resid phdelay (usec)	3.52386E-06	+/-	1.1E-07
Delay rate (us/s)	-9.46033232164E-01	Apriori rate (us/s)	-9.46033221148E-01	Resid rate (us/s)	-1.10167E-08	+/-	1.1E-09
Total phase (deg)	274.3	Apriori accel (us/s/s)	-4.66024663133E-05	Resid phase (deg)	109.3	+/-	3.5

ph/seg (deg)	43.9	RMS	43.9	Theor.	8.2	Amplitude	0.905 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-1.000	1.000		
amp/seg (%)	37.9		37.9		14.3	Search (1024X32)	0.847	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	SampCntNorm:	enabled	mb window (us)	-0.008	0.008		
ph/frq (deg)	13.5		13.5		4.9	Inc. seg. avg.	1.169	Sample rate (MSamp/s):	128	nlags:	256	t_cohere	infinite	ion window (TEC)	0.00	0.00
amp/frq (%)	19.6		19.6		8.6	Inc. frq. avg.	0.919	Data rate (Mb/s):	2048							

l: az 153.0 el 44.7 pa -21.4 m: az 103.5 el 18.3 pa -66.8 u,v (fr/asec) 5424.103 2541.882 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0073/lm..1970YE Output file: /Exps/c201e/v1/1234/No0073/lm.W.74.1970YE

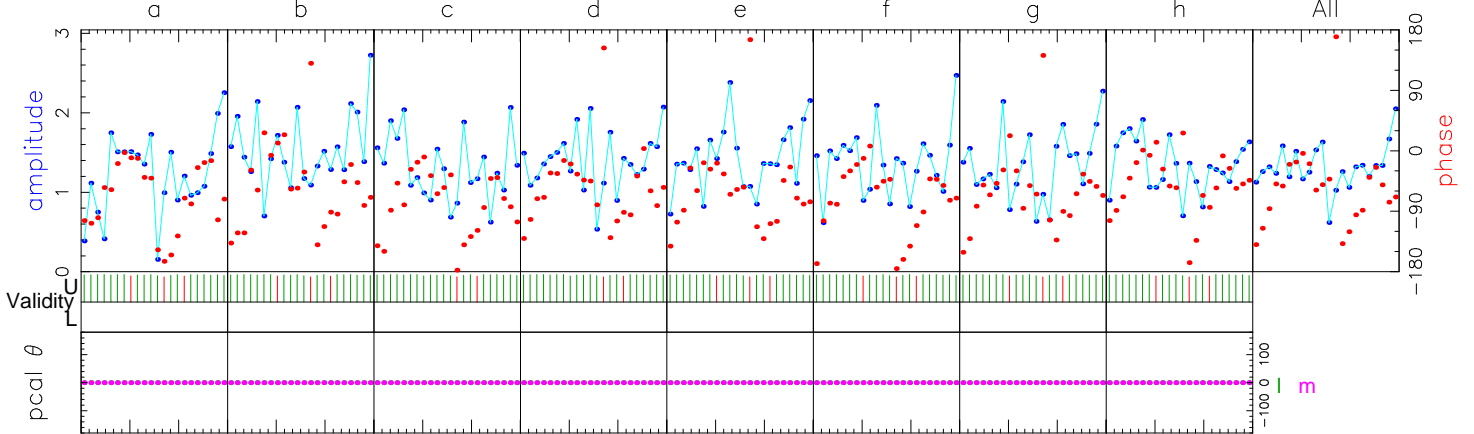


Fringe quality 7

SNR 36.9
Int time 176.660
Amp 1.015
Phase -64.8
PFD 0.0e+00
Delays (us)
SBD 0.002345
MBD 0.002211
Fringe rate (Hz)
-0.000866
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

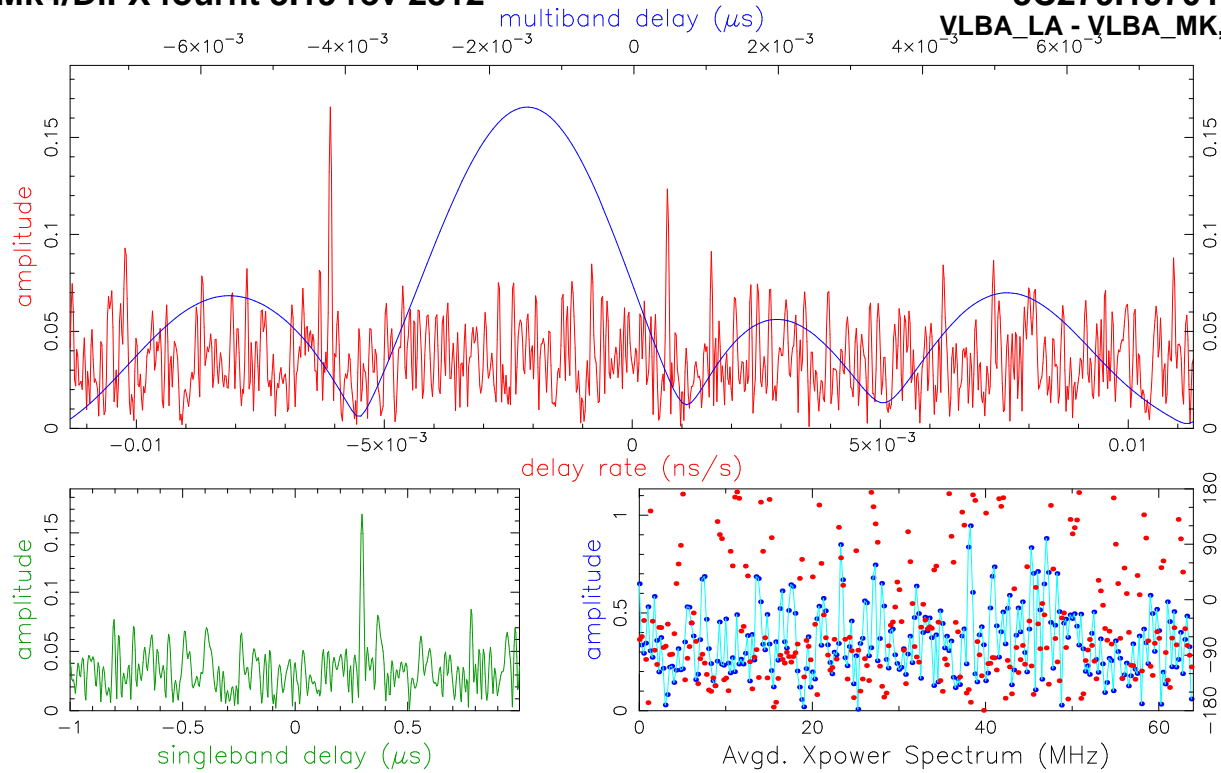
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155317
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



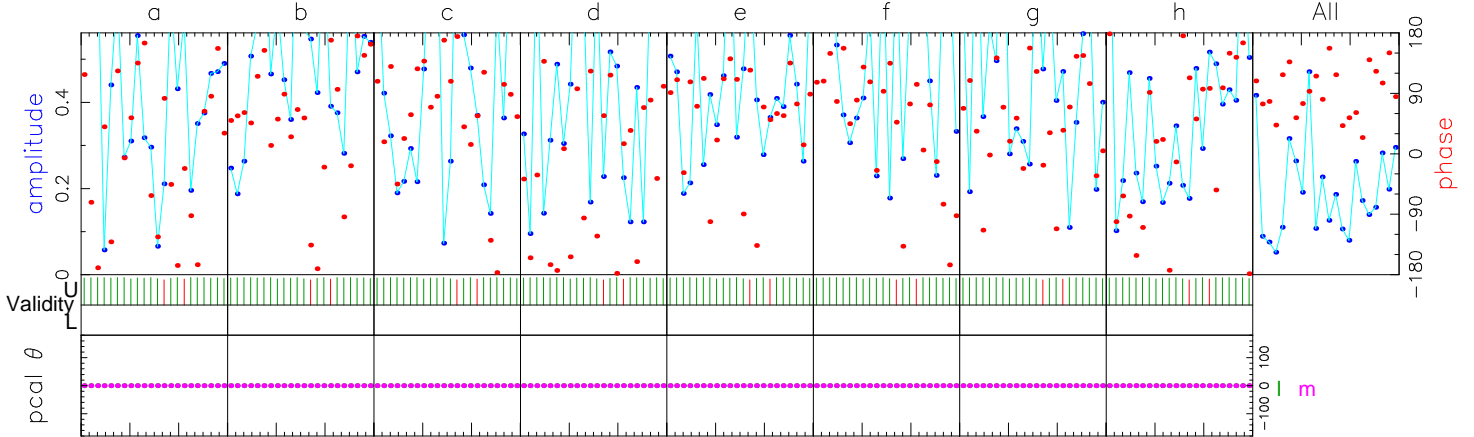
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-57.8	-63.4	-81.4	-62.2	-66.9	-67.8	-70.9	-47.4		-64.8
	0.9	1.0	1.0	1.1	1.1	1.0	1.0	1.0		1.0
	257.0	257.5	257.8	257.7	257.6	257.4	257.9	258.1		257.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
l:m	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		
m	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	8.21720576843E+03		Apriori delay (usec)		8.21720355768E+03		Resid mbdelay (usec)		2.21075E-03	+/- 2.9E-05
Sband delay (usec)	8.21720590268E+03		Apriori clock (usec)		-1.1921346E+01		Resid sbdelay (usec)		2.34500E-03	+/- 2.3E-04
Phase delay (usec)	8.21720355559E+03		Apriori clockrate (us/s)		-6.4200002E-07		Resid phdelay (usec)		-2.08918E-06	+/- 1.0E-07
Delay rate (us/s)	-9.46033231199E-01		Apriori rate (us/s)		-9.46033221148E-01		Resid rate (us/s)		-1.00516E-08	+/- 9.6E-10
Total phase (deg)	100.2		Apriori accel (us/s/s)		-4.66024663133E-05		Resid phase (deg)		-64.8	+/- 3.1

ph/seg (deg) 46.3 7.3 Search (1024X32) 0.940 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 40.5 12.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 10.7 4.4 Inc. seg. avg. 1.311 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 7.2 7.7 Inc. frq. avg. 1.010 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 l: az 153.0 el 44.7 pa -21.4 m: az 103.5 el 18.3 pa -66.8 u,v (fr/asec) 5424.103 2541.882 simultaneous interpolator



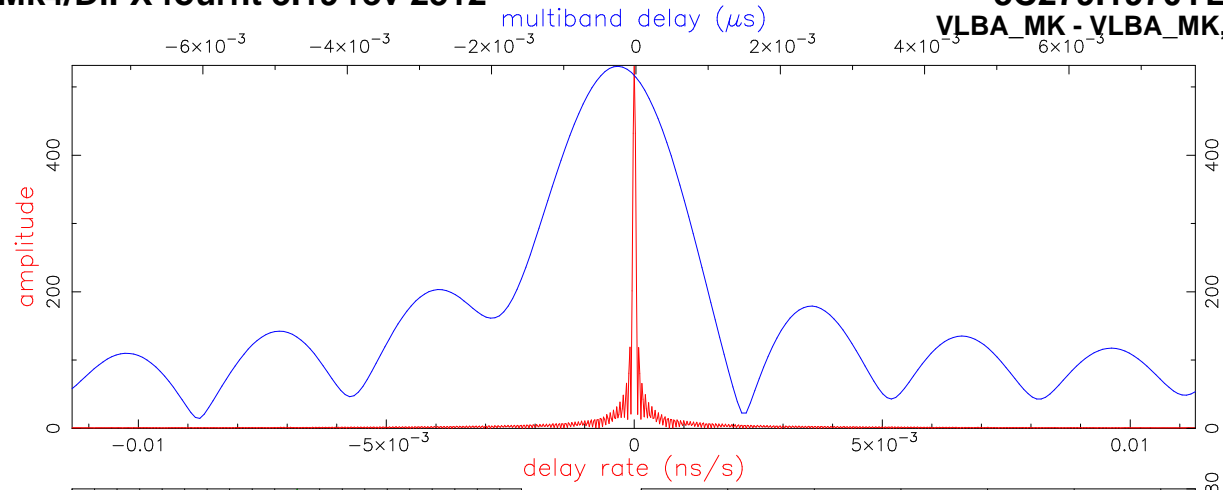
Fringe quality 0
SNR 6.0
Int time 176.661
Amp 0.187
Phase 95.8
PFD 2.0e-01
Delays (us)
SBD 0.296892
MBD -0.001478
Fringe rate (Hz)
-0.525117
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155319
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
l	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
l:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
l	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
l	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
Group delay (usec)(sbd)	8.21749895506E+03		Apriori delay (usec)		8.21720355768E+03		Resid mbdelay (usec)		-1.47762E-03	+/- 1.8E-04
Sband delay (usec)	8.21750044993E+03		Apriori clock (usec)		-1.1921346E+01		Resid sbdelay (usec)		2.96892E-01	+/- 1.4E-03
Phase delay (usec)	8.21720356077E+03		Apriori clockrate (us/s)		-6.4200002E-07		Resid phdelay (usec)		3.08822E-06	+/- 6.1E-07
Delay rate (us/s)	-9.46039317236E-01		Apriori rate (us/s)		-9.46033221148E-01		Resid rate (us/s)		-6.09609E-06	+/- 5.9E-09
Total phase (deg)	260.8		Apriori accel (us/s/s)		-4.66024663133E-05		Resid phase (deg)		95.8	+/- 19.0

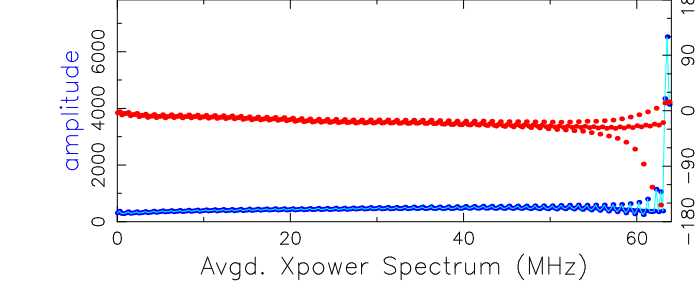
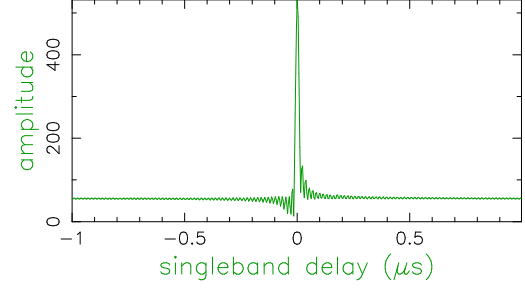
ph/seg (deg) 36.9 44.6 Search (1024X32) 0.161 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 68.4 77.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 39.3 26.9 Inc. seg. avg. 0.170 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 53.4 47.0 Inc. frq. avg. 0.186 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 l: az 153.0 el 44.7 pa -21.4 m: az 103.5 el 18.3 pa -66.8 u,v (fr/asec) 5424.103 2541.882 ion window (TEC) 0.00 0.00
 simultaneous interpolator



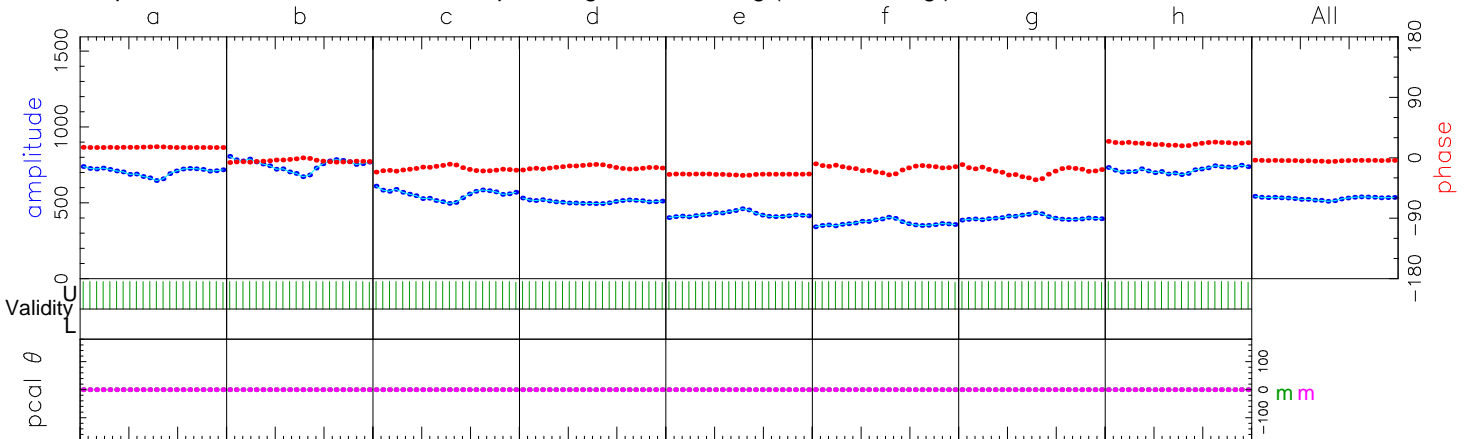
Fringe quality 7

SNR 19497.2
Int time 179.881
Amp 531.597
Phase -4.3
PFD 0.0e+00
Delays (us)
SBD 0.000587
MBD -0.000254
Fringe rate (Hz) 0.000003
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155321
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"



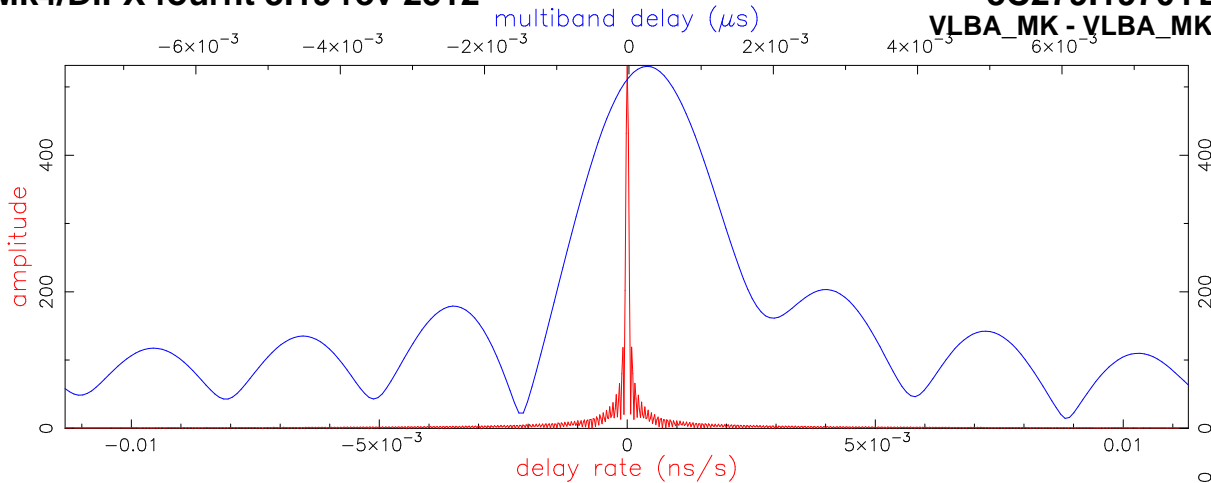
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	15.5	-4.6	-16.7	-14.2	-24.7	-15.9	-20.7	21.3	Phase	-4.3
	705.4	750.1	554.2	508.7	423.7	365.5	400.5	717.3	Ampl.	553.2
	256.6	256.5	257.0	257.2	256.8	257.0	257.0	257.5	Sbd box	257.2
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.53562500000E-04		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-2.53562E-04	+/- 5.6E-08
Sband delay (usec)	5.87250000000E-04		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		5.87250E-04	+/- 4.4E-07
Phase delay (usec)	-1.37169433944E-07		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-1.37169E-07	+/- 1.9E-10
Delay rate (us/s)	3.40107657400E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		3.40108E-11	+/- 1.8E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-4.3	+/- 0.0

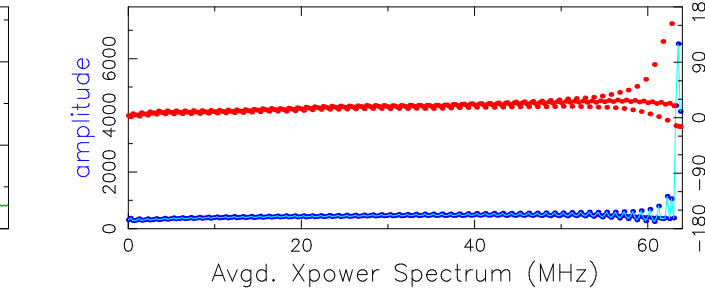
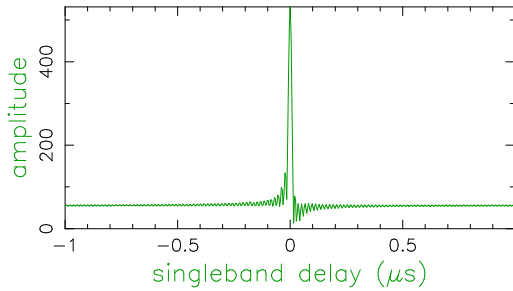
ph/seg (deg) 0.5 0.0 Search (1024X32) 516.440 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 1.7 0.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 18.8 0.0 Inc. seg. avg. 530.324 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 27.4 0.0 Inc. frq. avg. 553.182 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
m: az 103.5 el 18.3 pa -66.8 m: az 103.5 el 18.3 pa -66.8 u,v (fr/asec) 0.000 0.000 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0073/mm..1970YE Output file: /Exps/c201e/v1/1234/No0073/mm.W.110.1970YE



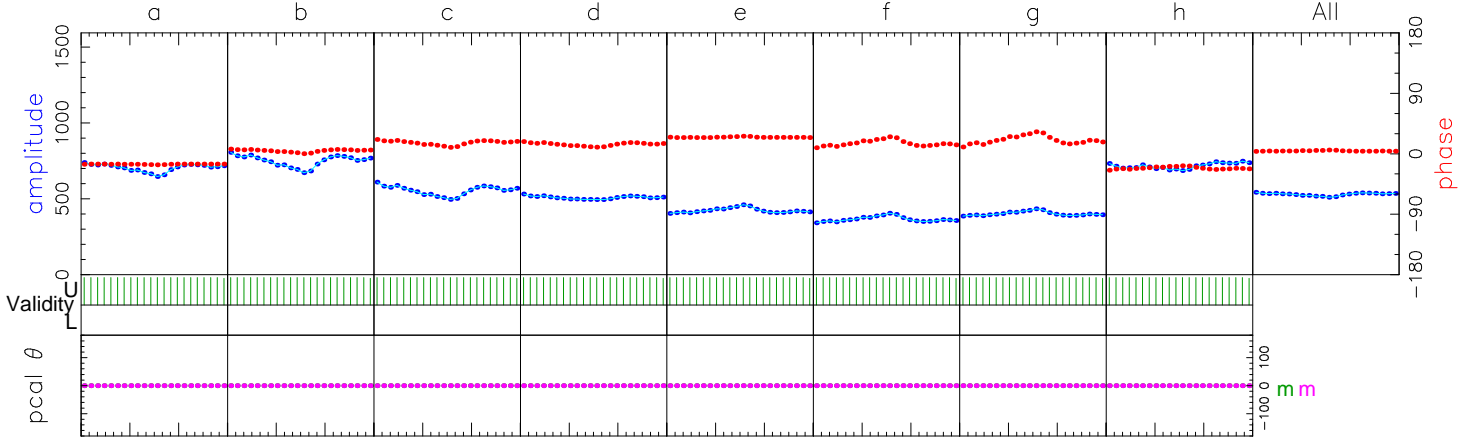
Fringe quality 7

SNR 19497.3
Int time 179.880
Amp 531.601
Phase 4.3
PFD 0.0e+00
Delays (us)
SBD -0.000587
MBD 0.000254
Fringe rate (Hz)
-0.000003
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512



Exp. c201e
Yr:day 16383
Start 2020:119
Stop 2020:119
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155322
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec

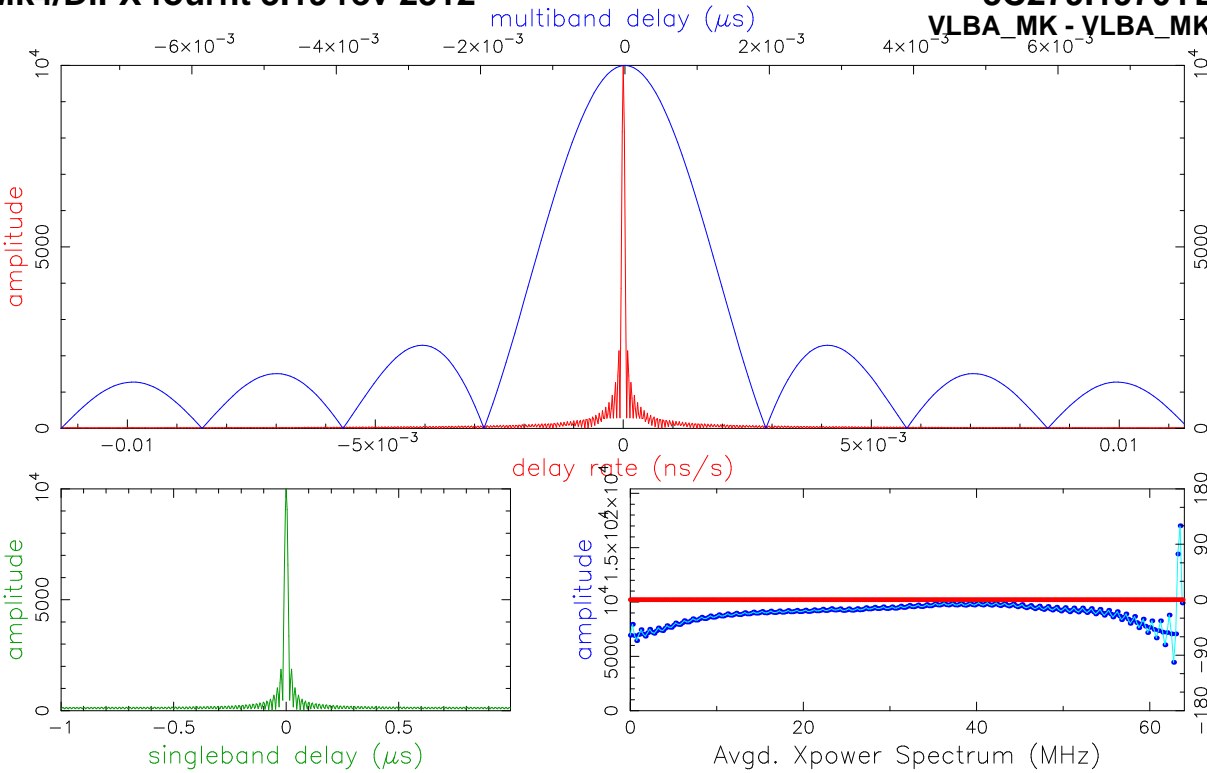


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-15.5	4.6	16.7	14.2	24.7	15.9	20.7	-21.3	Phase	4.3
	705.4	750.2	554.2	508.7	423.7	365.5	400.5	717.3	Ampl.	553.2
	257.4	257.5	257.0	256.8	257.2	257.0	257.0	256.5	Sbd box	256.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.53562500000E-04		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		2.53562E-04	+/- 5.6E-08
Sband delay (usec)	-5.87250000000E-04		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-5.87250E-04	+/- 4.4E-07
Phase delay (usec)	1.37169433581E-07		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		1.37169E-07	+/- 1.9E-10
Delay rate (us/s)	-3.40107657400E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-3.40108E-11	+/- 1.8E-12
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		4.3	+/- 0.0

	RMS	Theor.	Amplitude	531.601 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	0.5	0.0	Search (1024X32)	516.443	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	1.7	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	18.8	0.0	Inc. seg. avg.	530.328	Sample rate(MISamp/s): 128	dr window (ns/s) -0.011 0.011
amp/frq (%)	27.4	0.0	Inc. frq. avg.	553.185	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

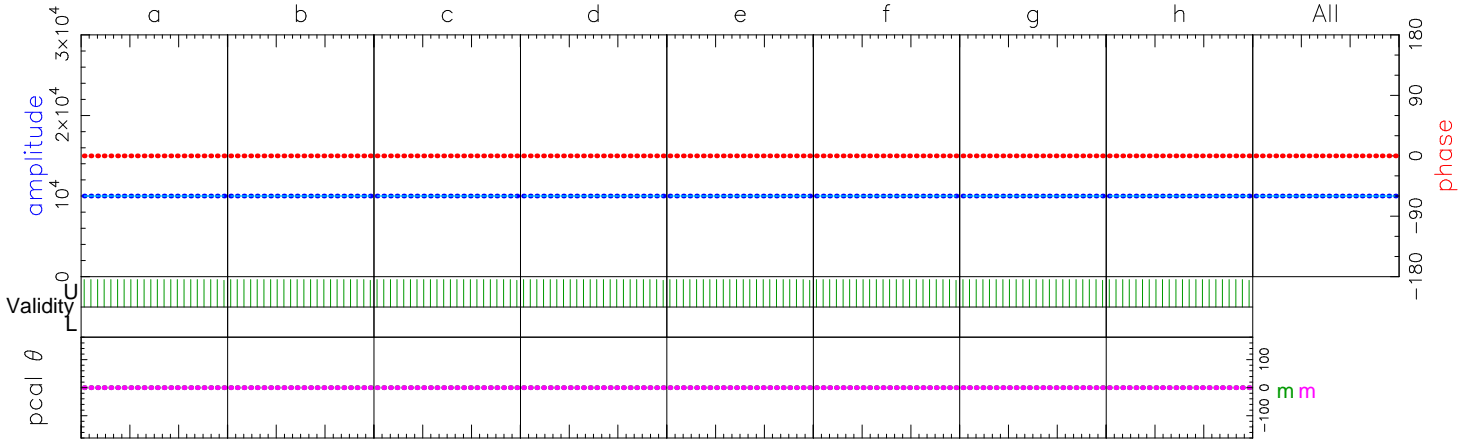
Mk4/DiFX fourfit 3.19 rev 2512

3C279.1970YE, No0073, mm
VLBA_MK - VLBA_MK, fgroup W, pol LL



Fringe quality 9
SNR 366767.1
Int time 179.881
Amp 10000.008
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155316
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



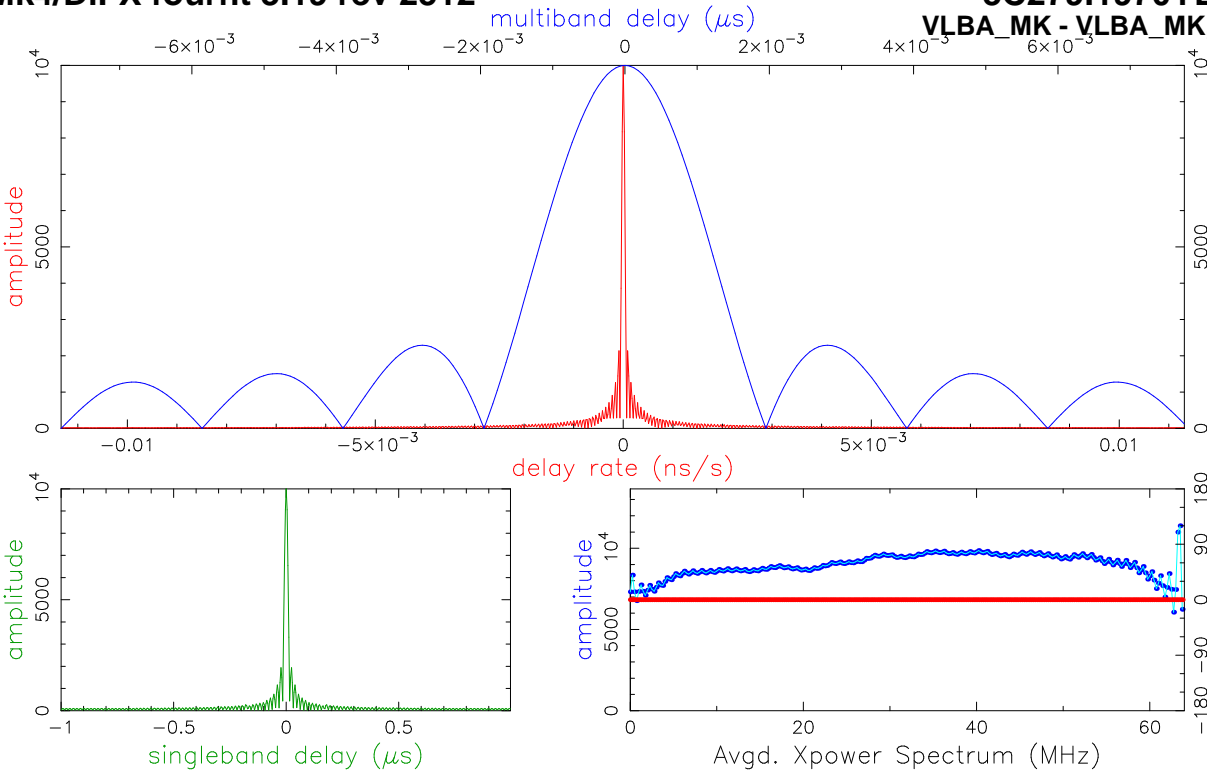
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	0.0	Phase	0.0
	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Sbd box	257.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	3.0E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	2.3E-08
Phase delay (usec)	3.64156489864E-20	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.64156E-20	+/-	1.0E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	9.7E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

ph/seg (deg)	0.0	RMS	Theor.	Amplitude	10000.009 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	0.0	0.0	0.0	Search (1024X32)	10000.008	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011		
				Inc. frq. avg.	10000.008	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

m: az 103.5 el 18.3 pa -66.8 m: az 103.5 el 18.3 pa -66.8 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0073/mm..1970YE Output file: /Exps/c201e/v1/1234/No0073/mm.W.79.1970YE

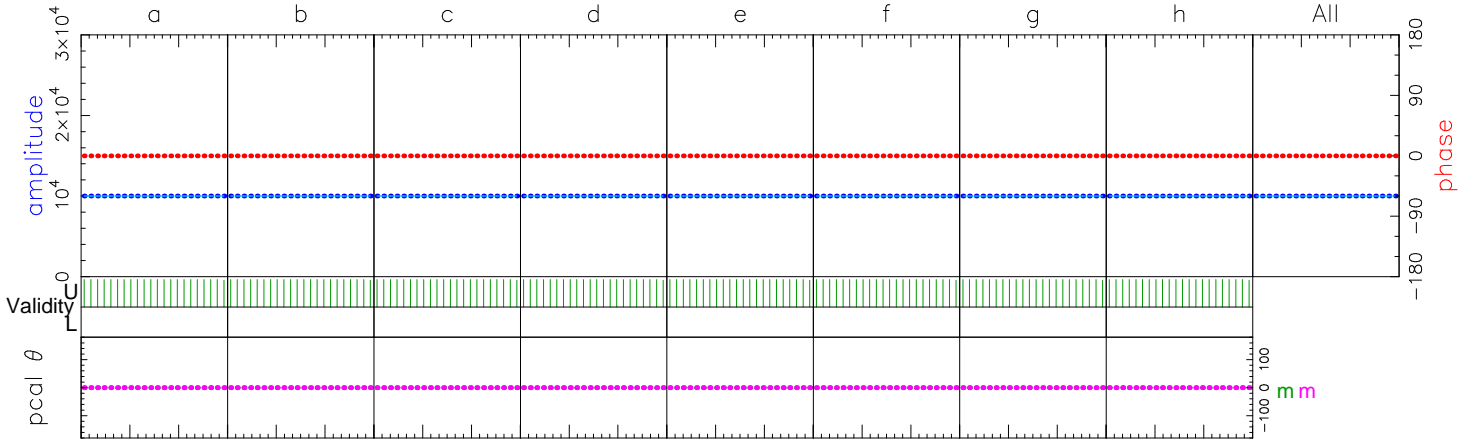


Fringe quality 9

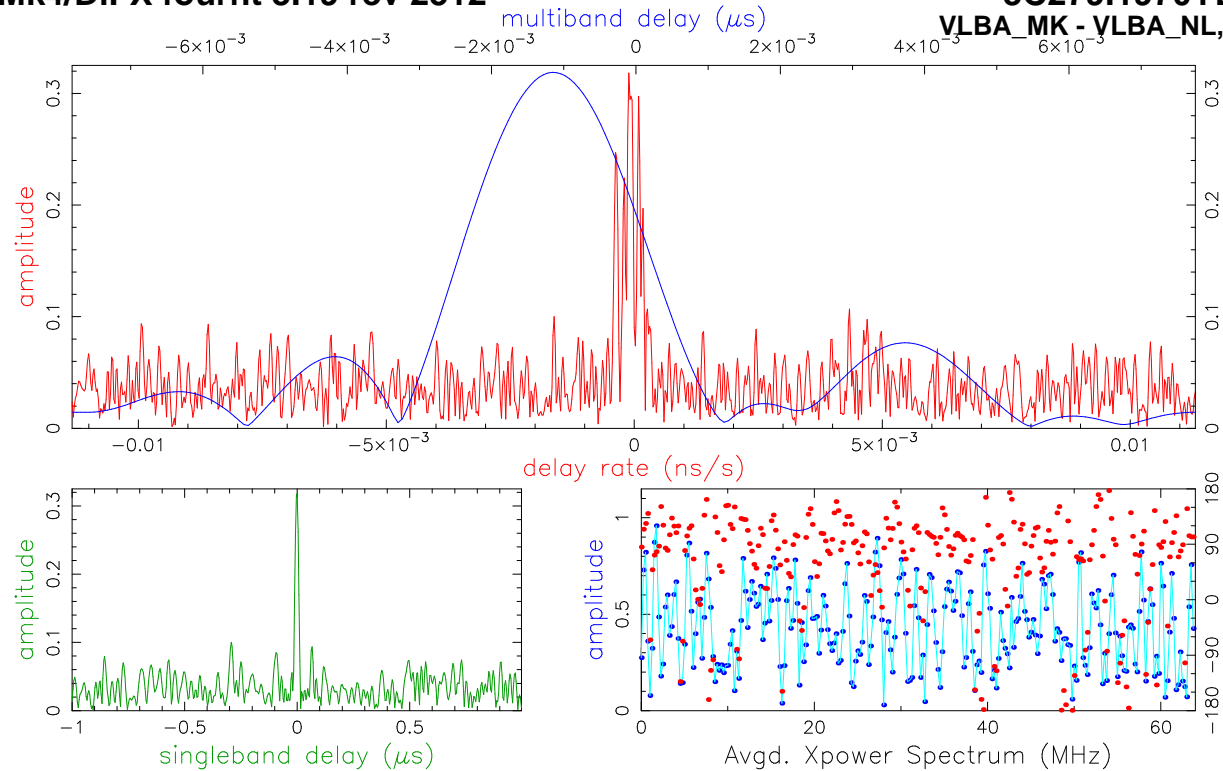
SNR 366765.8
Int time 179.880
Amp 10000.004
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155318
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
m	1000	1000	1000	1000	1000	1000	1000	1000		
m:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
m	1000	1000	1000	1000	1000	1000	1000	1000		
m	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.00000E+00	+/- 3.0E-09
Sband delay (usec)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.00000E+00	+/- 2.3E-08
Phase delay (usec)	1.48907009388E-19	1.48907009388E-19	1.48907009388E-19	1.48907009388E-19	1.48907009388E-19	1.48907009388E-19	1.48907009388E-19	1.48907009388E-19	1.48907E-19	+/- 1.0E-11
Delay rate (us/s)	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.000000000000E+00	0.00000E+00	+/- 9.7E-14
Total phase (deg)			0.0						0.0	+/- 0.0
RMS										
Theor.										
Amplitude									10000.004 +/- 0.027	
Search (1024X32)									10000.004	
Interp.									0.000	
Inc. seg. avg.									10000.000	
Inc. frq. avg.									10000.004	
Apriori delay (usec)									0.000000000000E+00	
Apriori clock (usec)									0.0000000E+00	
Apriori clockrate (us/s)									0.0000000E+00	
Apriori rate (us/s)									0.000000000000E+00	
Apriori accel (us/s/s)									0.000000000000E+00	
Resid mbdelay (usec)									0.00000E+00	
Resid sbdelay (usec)									0.00000E+00	
Resid phdelay (usec)									1.48907E-19	
Resid rate (us/s)									0.00000E+00	
Resid phase (deg)									0.0	
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
nlags: 256										
t_cohere infinite										
PC period (AP's) 5, 5										
sb window (us)									-1.000	1.000
mb window (us)									-0.008	0.008
dr window (ns/s)									-0.011	0.011
ion window (TEC)									0.00	0.00

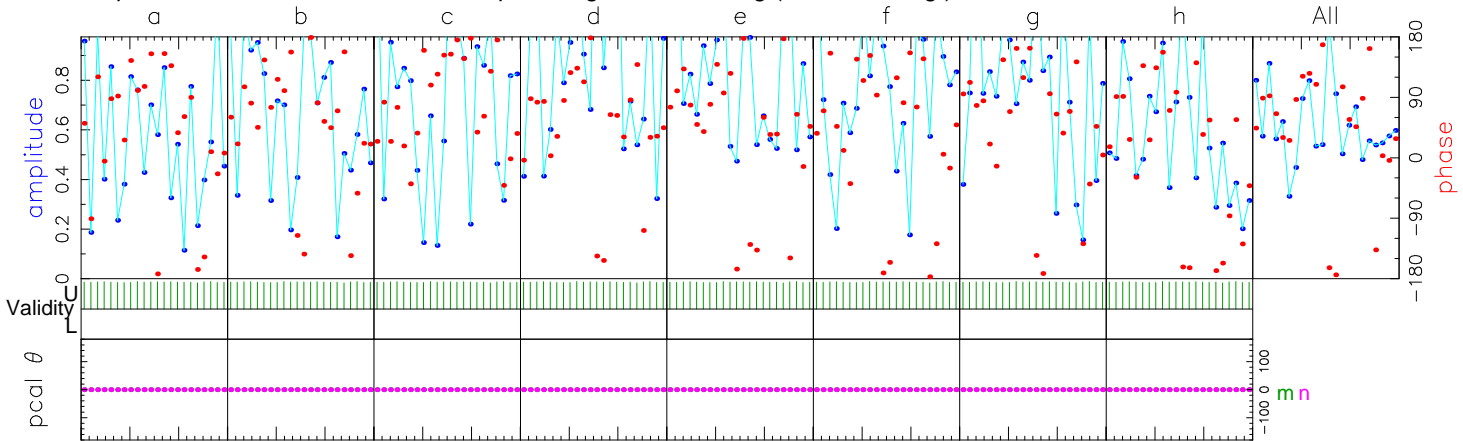


Fringe quality 9

SNR 11.8
Int time 176.358
Amp 0.325
Phase 91.9
PFD 9.1e-24
Delays (us)
SBD -0.001830
MBD -0.001218
Fringe rate (Hz)
-0.009428
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155319
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

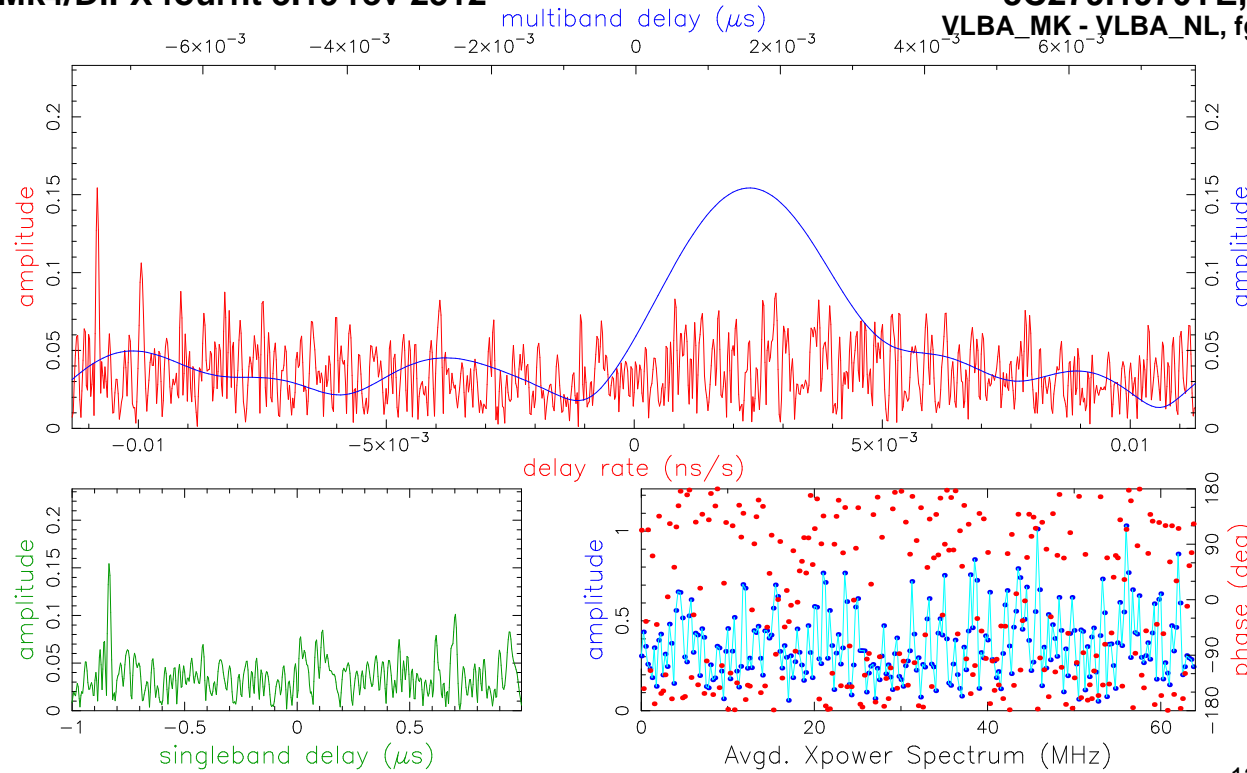
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	93.1	89.6	76.8	85.4	105.3	100.3	88.6	100.9	Phase	91.9
	0.3	0.3	0.3	0.5	0.4	0.3	0.4	0.2	Ampl.	0.3
	256.8	256.3	256.4	256.5	257.0	256.3	256.3	276.0	Sbd box	256.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-7.54787384895E+03	Apriori delay (usec)	-7.54787263120E+03	Resid mbdelay (usec)	-1.21775E-03	+/-	9.2E-05
Sband delay (usec)	-7.54787446120E+03	Apriori clock (usec)	-2.4154453E+01	Resid sbdelay (usec)	-1.83000E-03	+/-	7.3E-04
Phase delay (usec)	-7.54787262823E+03	Apriori clockrate (us/s)	1.5700001E-07	Resid phdelay (usec)	2.96327E-06	+/-	3.1E-07
Delay rate (us/s)	1.26697006647E+00	Apriori rate (us/s)	1.26697017592E+00	Resid rate (us/s)	-1.09449E-07	+/-	3.0E-09
Total phase (deg)		Apriori accel (us/s/s)	4.37953635155E-05	Resid phase (deg)	91.9	+/-	9.7

ph/seg (deg)	62.5	Theor.	22.8	Amplitude	0.325 +/- 0.028	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	103.7	Search (1024X32)	0.315	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	10.1	Inc. seg. avg.	0.579	Inc. frq. avg.	0.313	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	22.4	Inc. frq. avg.	0.313			Sample rate (MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
						Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

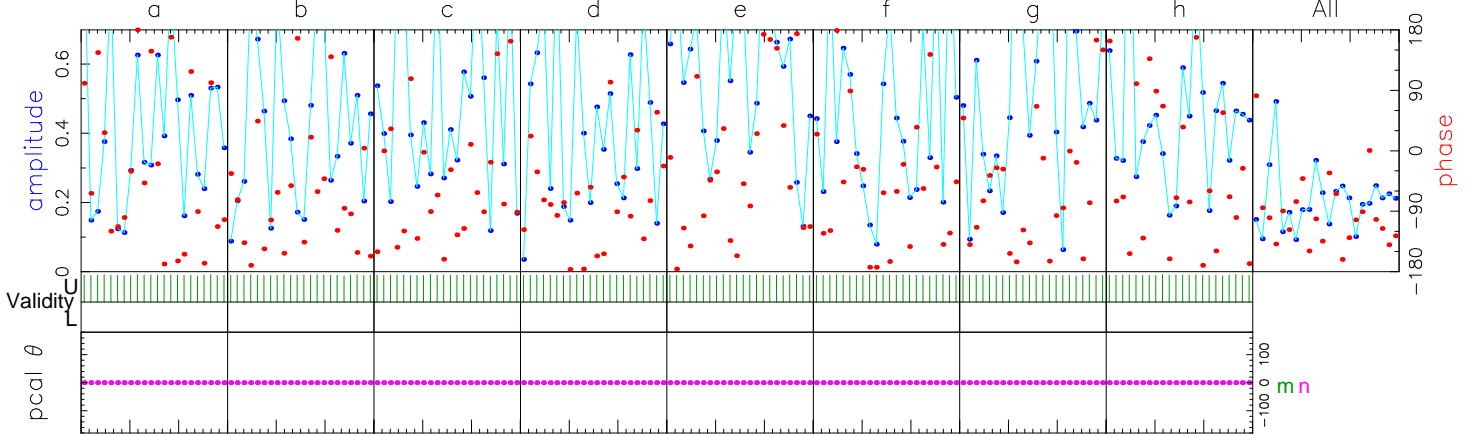


Fringe quality 0

SNR 5.6
Int time 176.358
Amp 0.233
Phase -109.4
PFD 9.1e-01
Delays (us)
SBD -0.835401
MBD 0.001592
Fringe rate (Hz)
-0.934400
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155322
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-168.2	-96.5	-104.0	-81.8	-131.9	-77.0	-110.1	-157.0	Phase	-109.4
	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	Ampl.	0.2
	127.6	138.3	383.7	37.4	169.7	387.5	32.8	180.5	Sbd box	43.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

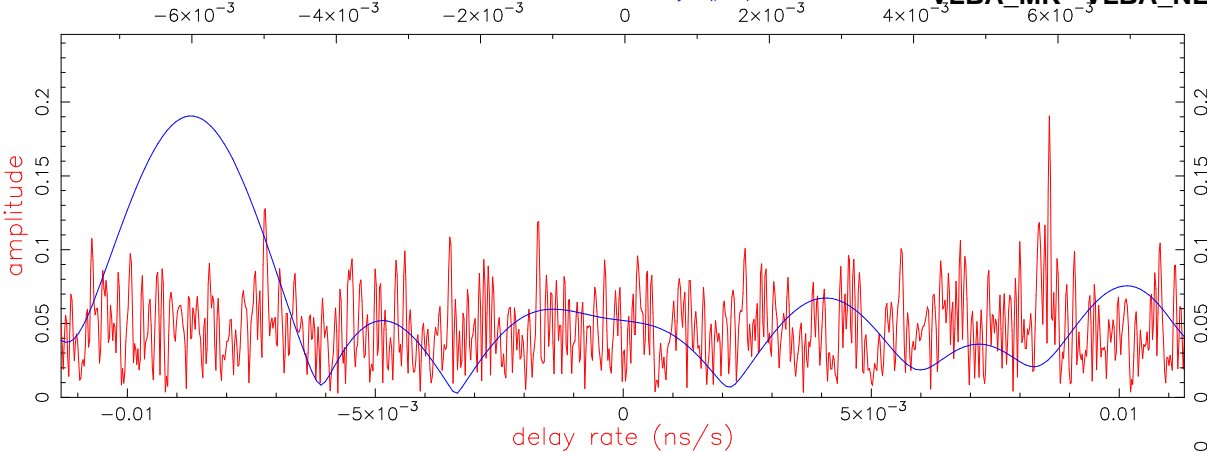
Group delay (usec)(sbd)	-7.54871478956E+03	Apriori delay (usec)	-7.54787263120E+03	Resid mbdelay (usec)	1.59164E-03	+/-	1.9E-04
Sband delay (usec)	-7.54870803245E+03	Apriori clock (usec)	-2.4154453E+01	Resid sbdelay (usec)	-8.35401E-01	+/-	1.5E-03
Phase delay (usec)	-7.54787263473E+03	Apriori clockrate (us/s)	1.5700001E-07	Resid phdelay (usec)	-3.52901E-06	+/-	6.6E-07
Delay rate (us/s)	1.26695932847E+00	Apriori rate (us/s)	1.26697017592E+00	Resid rate (us/s)	-1.08475E-05	+/-	6.3E-09
Total phase (deg)	-271.9	Apriori accel (us/s/s)	4.37953635155E-05	Resid phase (deg)	-109.4	+/-	20.4

	RMS	Theor.	Amplitude	0.233 +/- 0.041	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	53.6	47.8	Search (1024X32)	0.152	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	65.9	83.5	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	37.0	28.9	Inc. seg. avg.	0.232	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	27.8	50.4	Inc. frq. avg.	0.238	Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite		

m: az 103.5 el 18.3 pa -66.8 n: az 174.2 el 42.2 pa -4.2 u,v (fr/asec) -7273.703 -3236.878 simultaneous interpolator

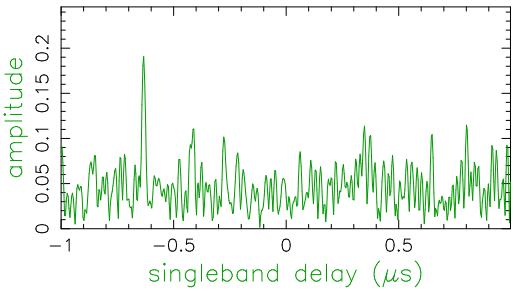
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0073/mn..1970YE Output file: /Exps/c201e/v1/1234/No0073/mn.W.119.1970YE

multiband delay (μ s)

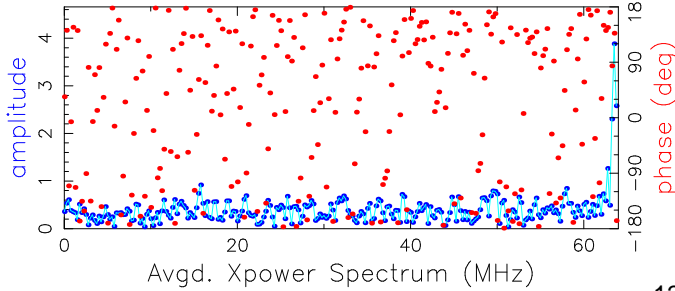


Fringe quality 0

SNR 7.0
Int time 176.358
Amp 0.246
Phase 109.5
PFD 5.2e-04
Delays (us)
SBD -0.633726
MBD -0.006007
Fringe rate (Hz)
0.741293
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

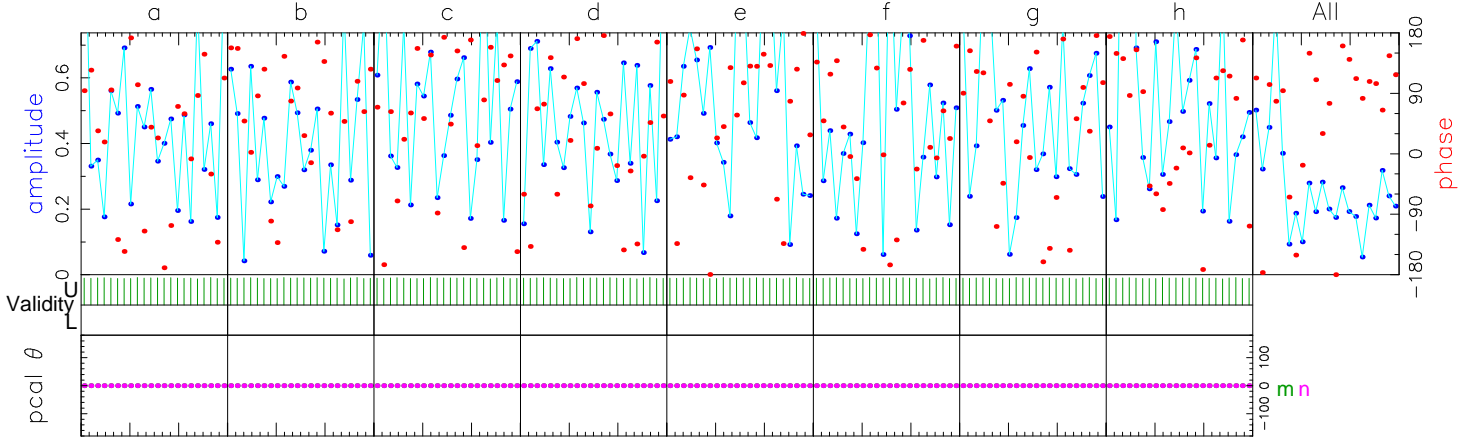


delay rate (ns/s)



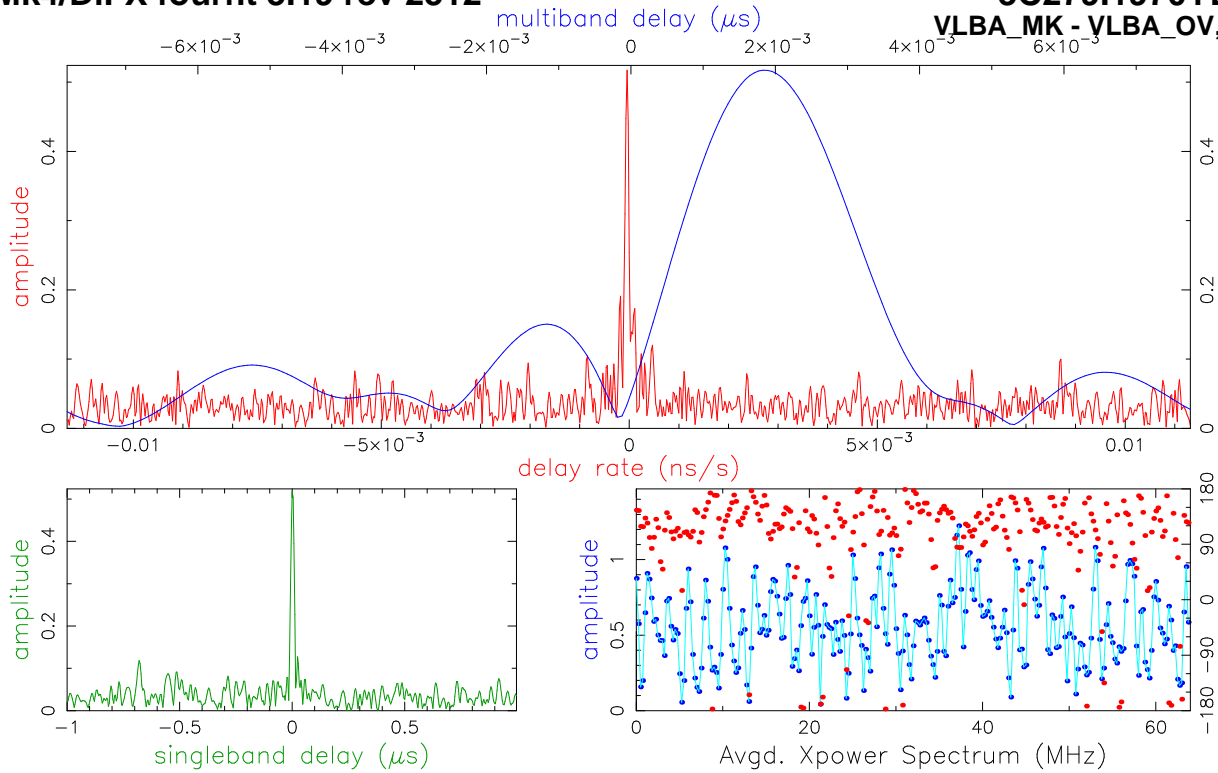
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155325
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	102.6	92.9	125.1	88.7	124.6	128.7	113.7	95.4	Phase	109.5
	0.2	0.2	0.3	0.1	0.3	0.3	0.2	0.5	Ampl.	0.2
	165.8	130.5	460.6	323.8	276.9	421.6	501.7	175.4	Sbd box	94.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-7.54850363788E+03		Apriori delay (usec)		-7.54787263120E+03		Resid mbdelay (usec)		-6.00669E-03	+/- 1.6E-04
Sband delay (usec)	-7.54850635695E+03		Apriori clock (usec)		-2.4154453E+01		Resid sbdelay (usec)		-6.33726E-01	+/- 1.2E-03
Phase delay (usec)	-7.54787262767E+03		Apriori clockrate (us/s)		1.5700001E-07		Resid phdelay (usec)		3.53161E-06	+/- 5.3E-07
Delay rate (us/s)	1.26697878160E+00		Apriori rate (us/s)		1.26697017592E+00		Resid rate (us/s)		8.60568E-06	+/- 5.1E-09
Total phase (deg)			Apriori accel (us/s/s)		4.37953635155E-05		Resid phase (deg)		109.5	+/- 16.5

ph/seg (deg) 61.8 38.6 Search (1024X32) 0.184 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 93.8 67.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 17.4 23.3 Inc. seg. avg. 0.278 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 37.3 40.7 Inc. frq. avg. 0.234 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
m: az 103.5 el 18.3 pa -66.8 n: az 174.2 el 42.2 pa -4.2 u,v (fr/asec) -7273.703 -3236.878 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0073/mn..1970YE Output file: /Exps/c201e/v1/1234/No0073/mn.W.135.1970YE

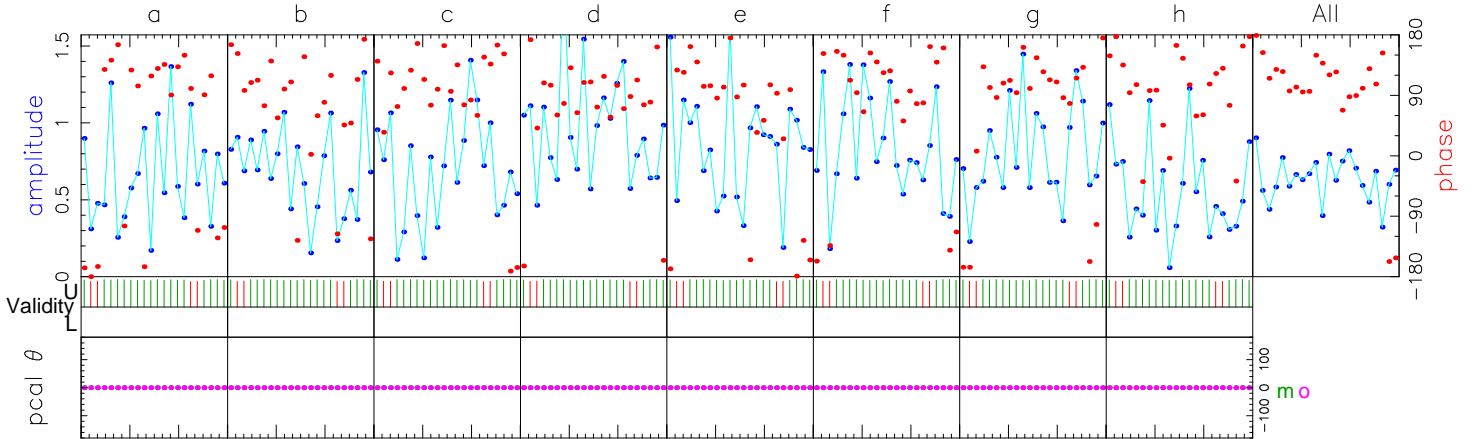


Fringe quality 9

SNR 19.0
Int time 175.620
Amp 0.524
Phase 123.0
PFD 0.0e+00
Delays (us)
SBD 0.001443
MBD 0.001881
Fringe rate (Hz)
-0.004313
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155321
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"

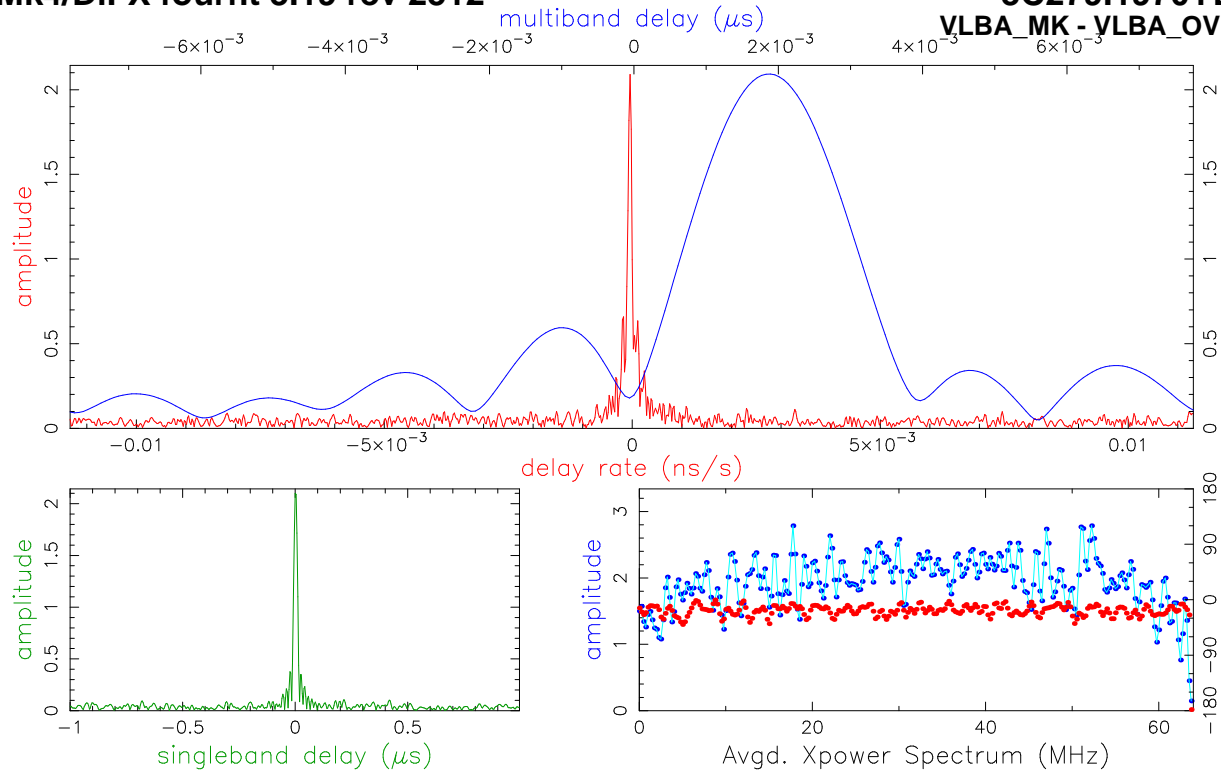
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
m	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
m:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
m:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
m	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-6.42029785252E+03									
Sband delay (usec)	-6.42029829101E+03									
Phase delay (usec)	-6.42029973005E+03									
Delay rate (us/s)	7.18991650546E-01									
Total phase (deg)			91.4							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									123.0	+/- 6.0
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Sample rate(MISamp/s):	128									
Data rate(Mb/s):	2048									
nlags:	256									
t_cohere	infinite									
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								

m: az 103.5 el 18.3 pa -66.8 o: az 139.4 el 38.1 pa -31.2 u,v (fr/asec) -4121.807 -2644.459 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0073/mo..1970YE Output file: /Exps/c201e/v1/1234/No0073/mo.W.112.1970YE

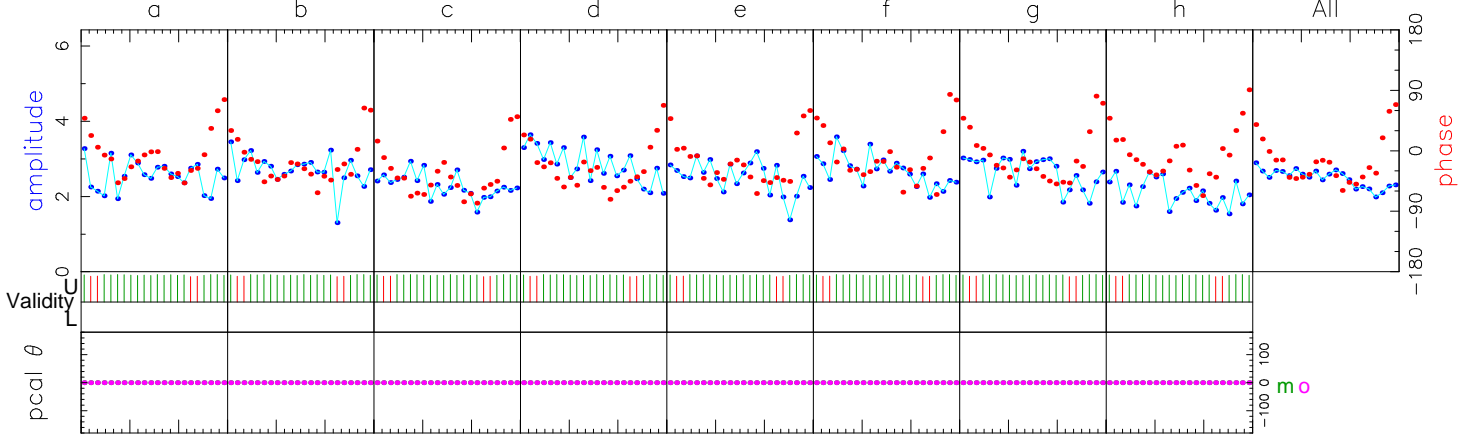


Fringe quality 7

SNR 77.7
Int time 175.620
Amp 2.144
Phase -16.8
PFD 0.0e+00
Delays (us)
SBD 0.001856
MBD 0.001811
Fringe rate (Hz)
-0.004089
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

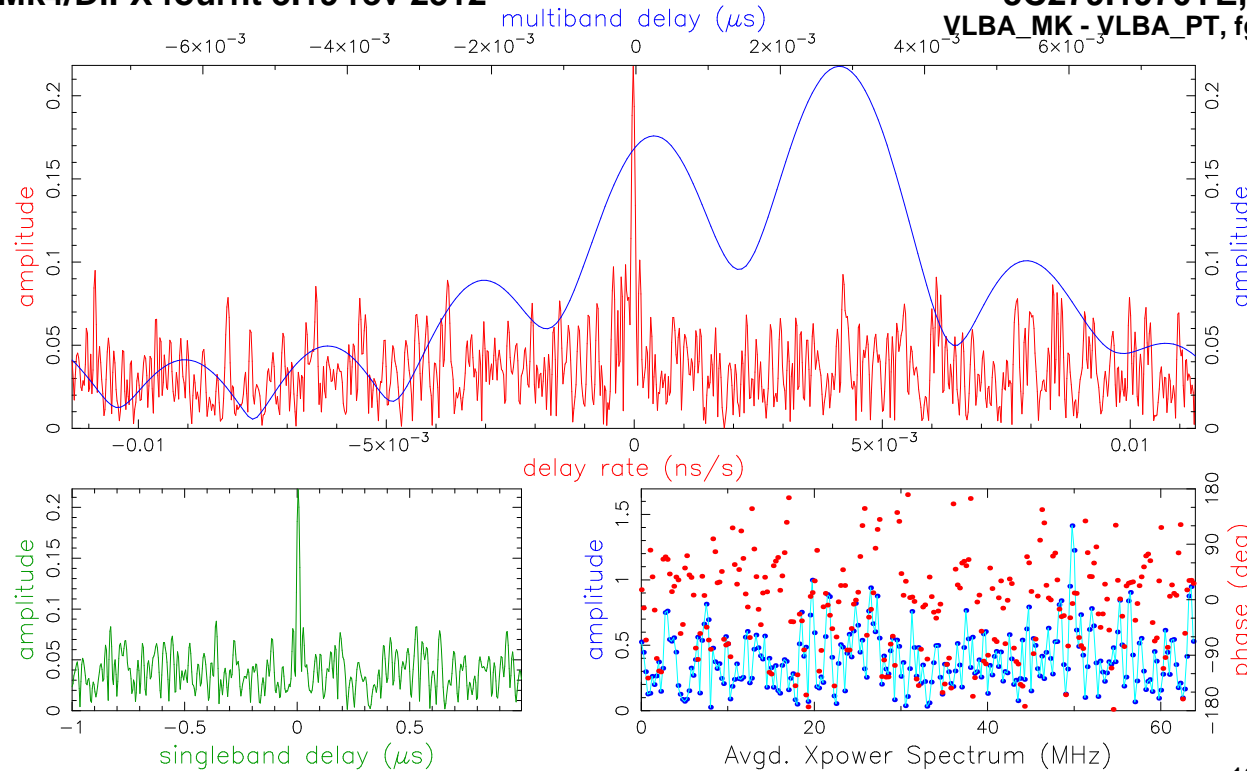
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155317
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



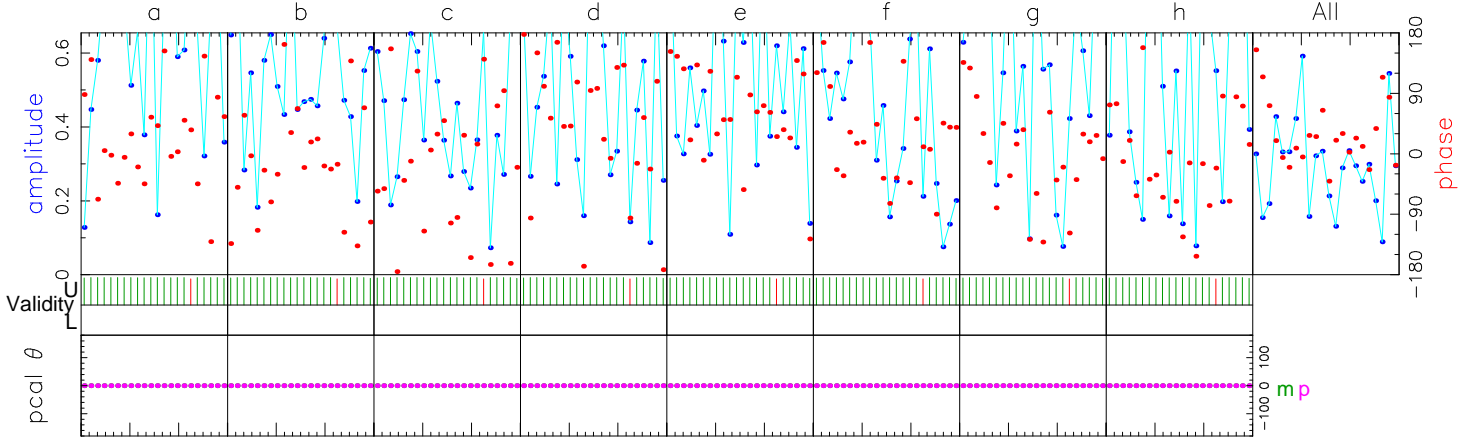
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-7.1	-17.9	-36.7	-25.8	-19.0	-9.9	-10.4	-6.5	Phase	-16.8
	2.1	2.3	1.9	2.5	2.1	2.2	2.2	1.7	Ampl.	2.1
	257.2	257.3	257.3	257.8	257.5	257.7	257.3	257.6	Sbd box	257.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.42029792277E+03		Apriori delay (usec)		-6.42029973401E+03		Resid mbdelay (usec)		1.81124E-03	+/- 1.4E-05
Sband delay (usec)	-6.42029787801E+03		Apriori clock (usec)		-1.1933019E+01		Resid sbdelay (usec)		1.85600E-03	+/- 1.1E-04
Phase delay (usec)	-6.42029973455E+03		Apriori clockrate (us/s)		2.8999998E-07		Resid phdelay (usec)		-5.40662E-07	+/- 4.8E-08
Delay rate (us/s)	7.18991653148E-01		Apriori rate (us/s)		7.18991700620E-01		Resid rate (us/s)		-4.74719E-08	+/- 4.6E-10
Total phase (deg)			Apriori accel (us/s/s)		3.71566865022E-05		Resid phase (deg)		-16.8	+/- 1.5

ph/seg (deg) 34.4 3.5 Amplitude 2.144 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 19.2 6.0 Search (1024X32) 2.080 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 11.4 2.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 10.1 3.6 Inc. seg. avg. 2.481 Sample rate(MISamp/s): 128 dr window (ns/s) -0.011 0.011
m: az 103.5 el 18.3 pa -66.8 o: az 139.4 el 38.1 pa -31.2 u,v (fr/asec) -4121.807 -2644.459 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0073/mo..1970YE Output file: /Exps/c201e/v1/1234/No0073/mo.W.83.1970YE simultaneous interpolator

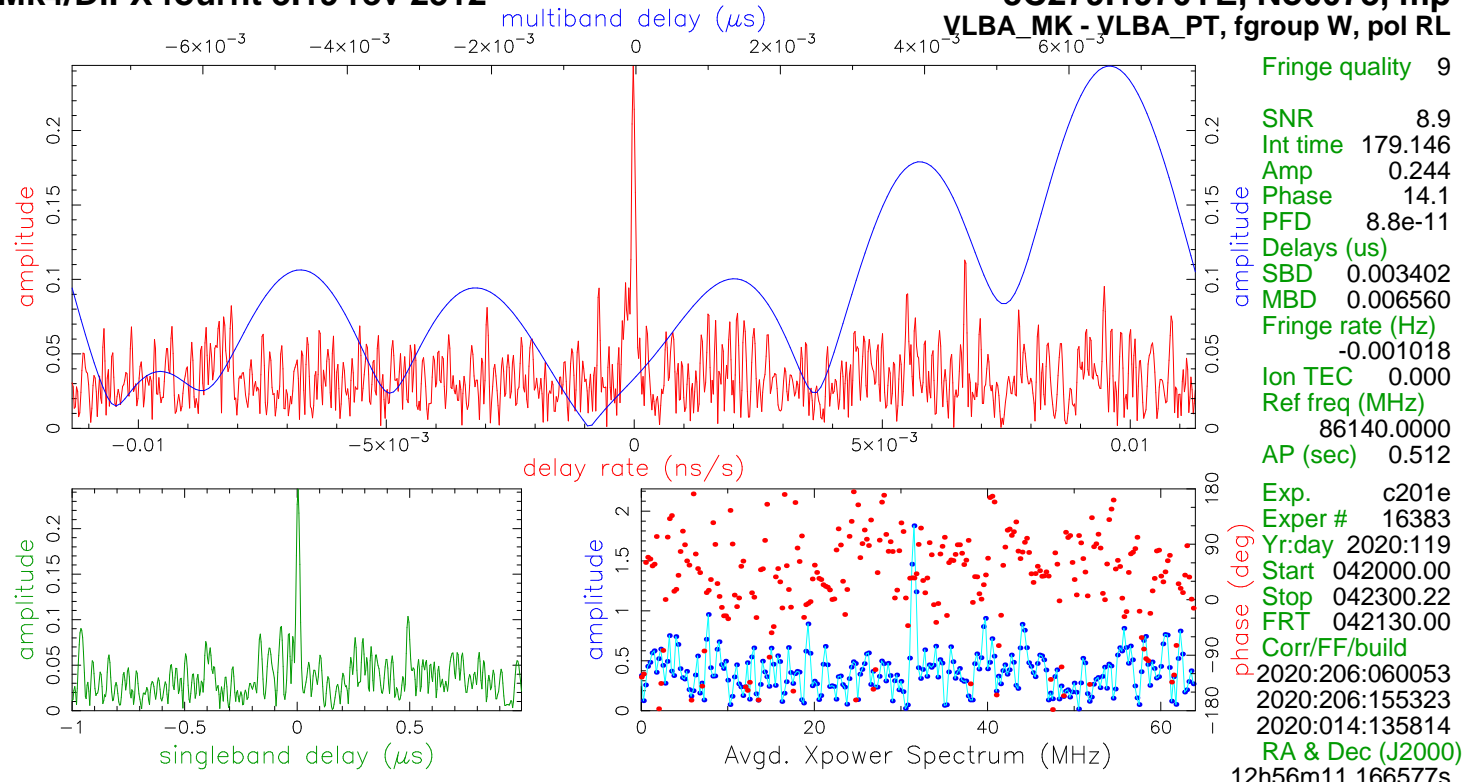


Fringe quality 9
SNR 8.0
Int time 179.148
Amp 0.218
Phase 21.6
PFD 2.3e-07
Delays (us)
SBD 0.004480
MBD 0.002819
Fringe rate (Hz)
-0.001441
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155321
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

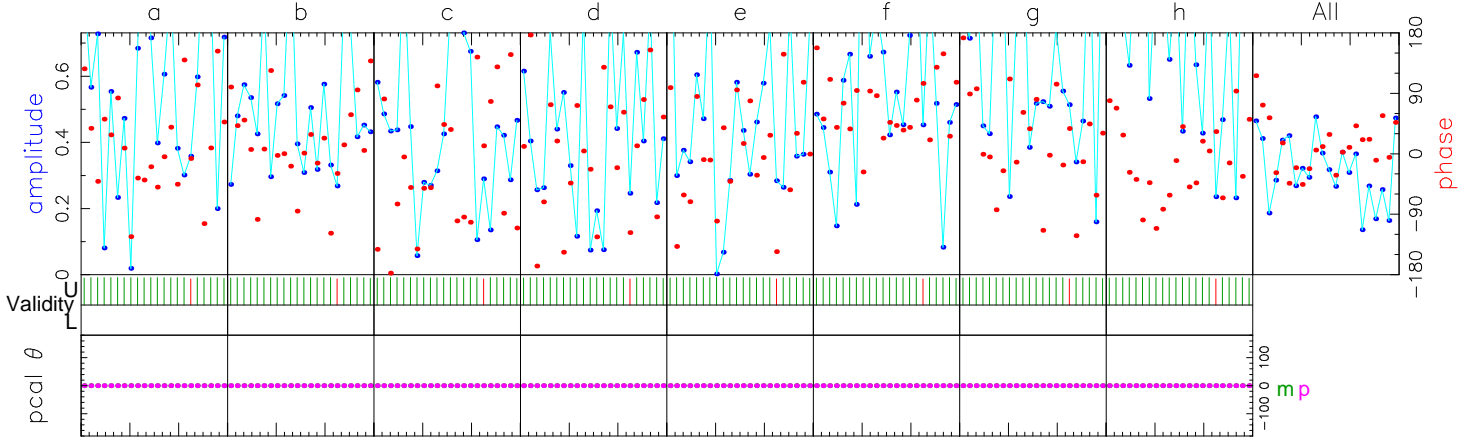
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
m	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
m	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	-8.38926754311E+03									
Sband delay (usec)	-8.38926588268E+03									
Phase delay (usec)	-8.38927036174E+03									
Delay rate (us/s)	8.99420654488E-01									
Total phase (deg)			14.4							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
lags: 256										
t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
pcal θ										
Amplitude										
Search (1024X32)										
Interp.										
Inc. seg. avg.										
Inc. frq. avg.										
0.218 +/- 0.027										
0.214										
0.000										
0.254										
0.256										
2.81933E-03										
4.47975E-03										
6.95992E-07										
-1.67248E-08										
21.6										
+/- 1.4E-04										
+/- 1.1E-03										
+/- 4.6E-07										
+/- 4.4E-09										
+/- 14.3										
PC period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
-1.000 1.000										
-0.008 0.008										
-0.011 0.011										
0.00 0.00										
m: az 103.5 el 18.3 pa -66.8										
p: az 149.8 el 45.2 pa -24.4										
u,v (fr/asec) -5155.355 -2361.082										
simultaneous interpolator										

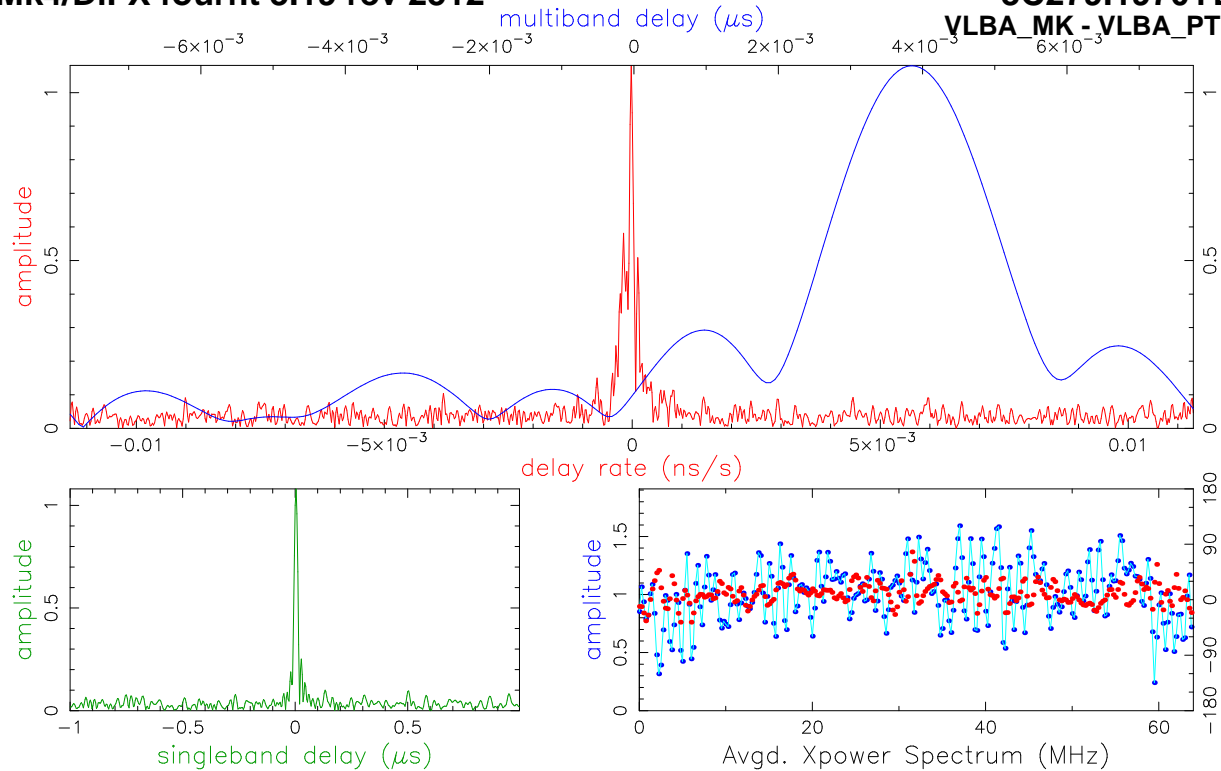


Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	1.1	14.9	-67.7	44.3	18.5	56.9	30.3	-22.0		Phase 14.1
	0.3	0.3	0.1	0.1	0.2	0.4	0.3	0.5		Ampl. 0.3
	258.0	257.6	52.0	342.8	430.3	257.7	257.9	258.1		Sbd box 257.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		APs used
m	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
p	1000	1000	1000	1000	1000	1000	1000	1000		PC freqs
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		PC phase
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		Mani PC
m	1000	1000	1000	1000	1000	1000	1000	1000		PC amp
p	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		Tracks
										Tracks
Group delay (usec)(sbd)	-8.38926380240E+03		Apriori delay (usec)		-8.38927036243E+03		Resid mbdelay (usec)		6.56003E-03	+/- 1.2E-04
Sband delay (usec)	-8.38926696068E+03		Apriori clock (usec)		-9.1249075E+00		Resid sbdelay (usec)		3.40175E-03	+/- 9.7E-04
Phase delay (usec)	-8.38927036198E+03		Apriori clockrate (us/s)		2.8700000E-07		Resid phdelay (usec)		4.53538E-07	+/- 4.1E-07
Delay rate (us/s)	8.99420659395E-01		Apriori rate (us/s)		8.99420671213E-01		Resid rate (us/s)		-1.18173E-08	+/- 4.0E-09
Total phase (deg)	6.8		Apriori accel (us/s/s)		4.71617506891E-05		Resid phase (deg)		14.1	+/- 12.8

	RMS	Theor.	Amplitude	0.244 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
ph/seg (deg)	39.2	30.1	Search (1024X32)	0.232	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.008	0.008
amp/seg (%)	50.8	52.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	43.2	18.2	Inc. seg. avg.	0.280	Sample rate(MISamp/s): 128		ion window (TEC)	0.00	0.00
amp/frq (%)	49.6	31.7	Inc. frq. avg.	0.272	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite			

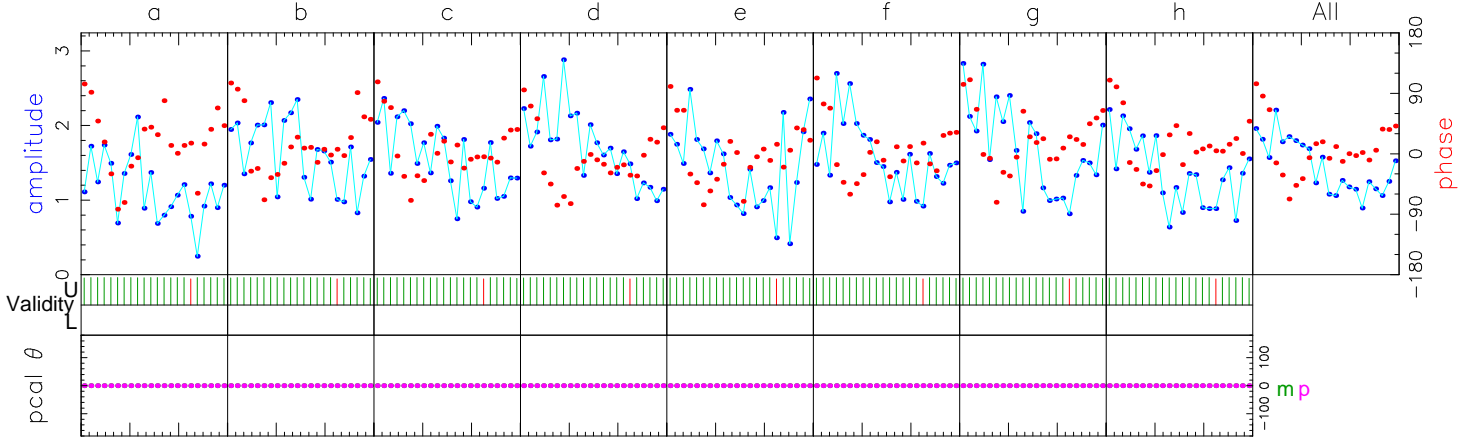


Fringe quality 6

SNR 39.6
Int time 179.147
Amp 1.081
Phase 5.5
PFD 0.0e+00
Delays (us)
SBD 0.003493
MBD 0.003843
Fringe rate (Hz)
-0.001271
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155317
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
-5°47'21.525129"

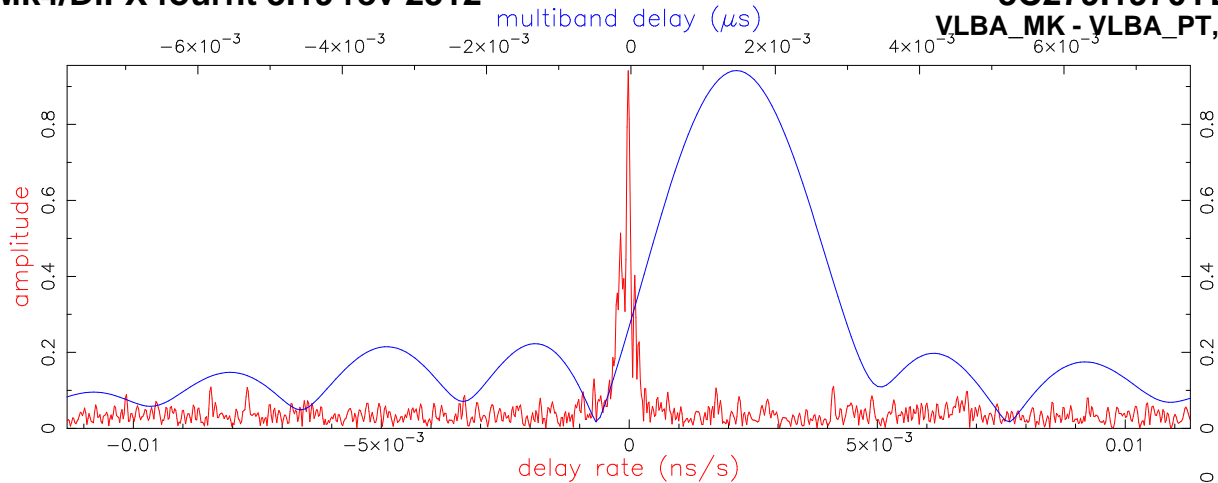
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
m	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
m	1000	1000	1000	1000	1000	1000	1000	1000		
p	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
p	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec)(sbd)	-8.38926651989E+03									
Sband delay (usec)	-8.38926686968E+03									
Phase delay (usec)	-8.38927036226E+03									
Delay rate (us/s)	8.99420656456E-01									
Total phase (deg)			-1.7							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
PCal mode: MANUAL, MANUAL										
PCal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MISamp/s): 128										
Data rate(Mb/s): 2048										
PCal period (AP's) 5, 5										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
Amplitude	1.081 +/- 0.027									
Search (1024X32)	1.059									
Interp.	0.000									
Inc. seg. avg.	1.450									
Inc. frq. avg.	1.100									
sb window (us)	-1.000	1.000								
mb window (us)	-0.008	0.008								
dr window (ns/s)	-0.011	0.011								
ion window (TEC)	0.00	0.00								
pcal θ										
mp										

m: az 103.5 el 18.3 pa -66.8 p: az 149.8 el 45.2 pa -24.4 u,v (fr/asec) -5155.355 -2361.082 simultaneous interpolator

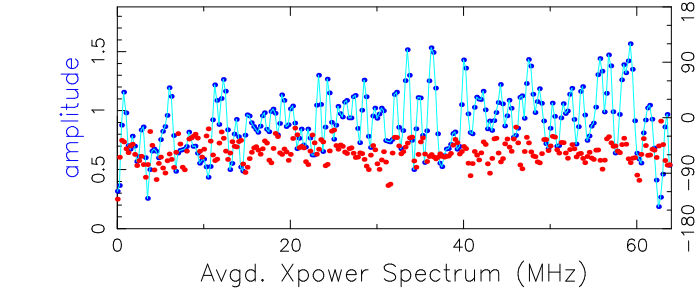
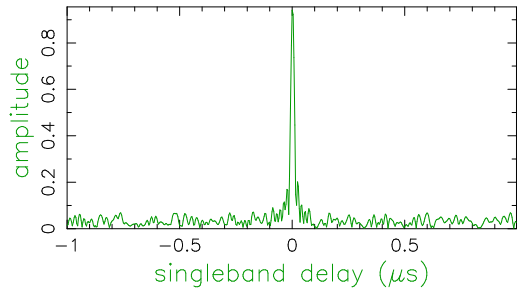
Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0073/mp..1970YE Output file: /Exps/c201e/v1/1234/No0073/mp.W.87.1970YE



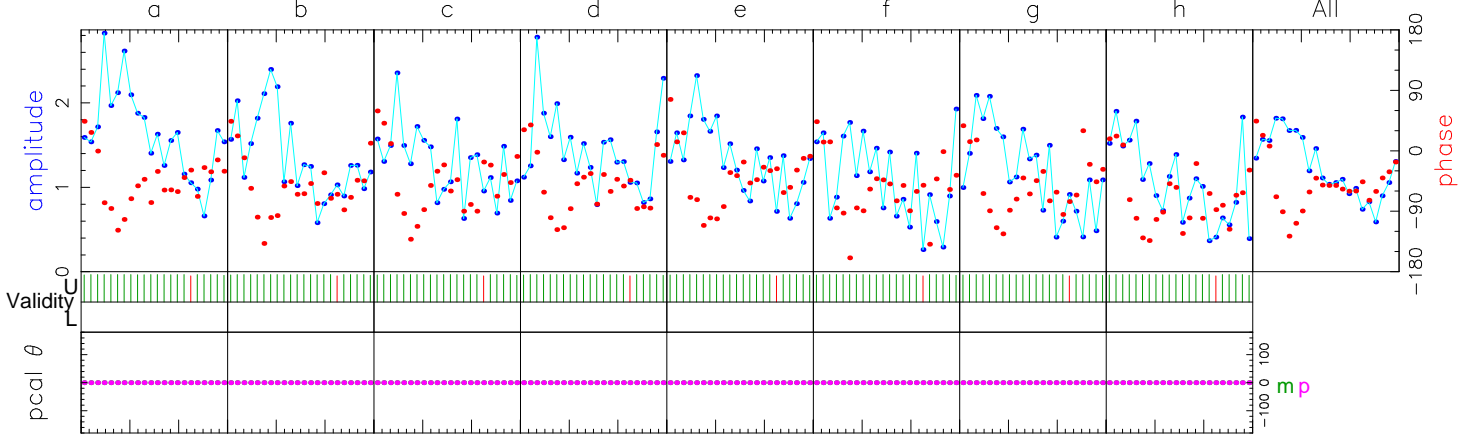
Fringe quality 7

SNR 35.0
Int time 179.147
Amp 0.955
Phase -54.0
PFD 0.0e+00
Delays (us)
SBD 0.001538
MBD 0.001497
Fringe rate (Hz) -0.001104
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512

Exp. c201e
Exper # 16383
Yr:day 2020:119
Start 042000.00
Stop 042300.22
FRT 042130.00
Corr/FF/build
2020:206:060053
2020:206:155319
2020:014:135814
RA & Dec (J2000)
12h56m11.166577s
--5°47'21.525129"



Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-52.3	-59.7	-51.7	-48.0	-46.0	-58.5	-55.1	-65.6	Phase	-54.0
	1.3	1.0	0.9	1.1	1.0	0.8	0.9	0.7	Ampl.	0.9
	257.4	257.6	257.4	257.3	257.1	257.7	257.1	257.4	Sbd box	257.4
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
p	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
m:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
m	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
m	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	-8.38926886536E+03	Apriori delay (usec)	-8.38927036243E+03	Resid mbdelay (usec)	1.49708E-03	+/-	3.1E-05
Sband delay (usec)	-8.38926882468E+03	Apriori clock (usec)	-9.1249075E+00	Resid sbdelay (usec)	1.53775E-03	+/-	2.5E-04
Phase delay (usec)	-8.38927036417E+03	Apriori clockrate (us/s)	2.8700000E-07	Resid phdelay (usec)	-1.74057E-06	+/-	1.1E-07
Delay rate (us/s)	8.99420658399E-01	Apriori rate (us/s)	8.99420671213E-01	Resid rate (us/s)	-1.28136E-08	+/-	1.0E-09
Total phase (deg)	-61.2	Apriori accel (us/s/s)	4.71617506891E-05	Resid phase (deg)	-54.0	+/-	3.3

ph/seg (deg)	38.9	RMS	7.7	Theor.	7.7	Amplitude	0.955 +/- 0.027	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	47.4	Search (1024X32)	0.915	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	7.0	Inc. seg. avg.	1.232	Inc. frq. avg.	0.943	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	17.7	Inc. frq. avg.	0.943	Sample rate (MSamp/s):	128	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

m: az 103.5 el 18.3 pa -66.8 p: az 149.8 el 45.2 pa -24.4 u,v (fr/asec) -5155.355 -2361.082 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c201e/v1/1234/No0073/mp..1970YE Output file: /Exps/c201e/v1/1234/No0073/mp.W.99.1970YE