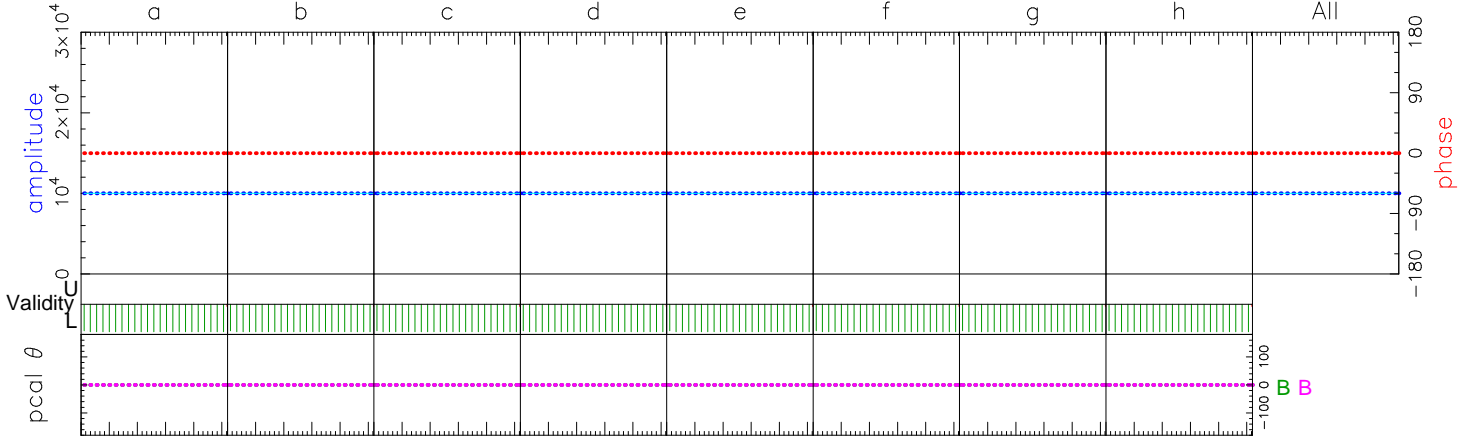


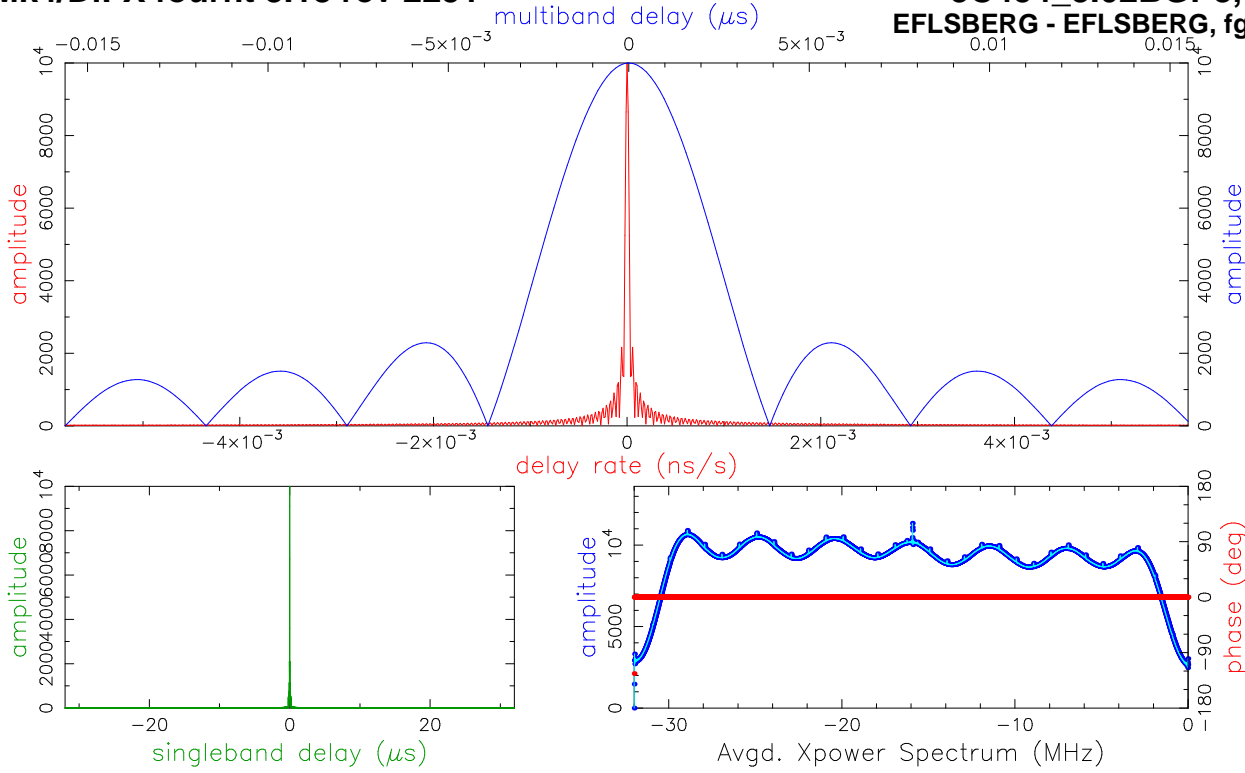
Fringe quality 9
 SNR 334679.3
 Int time 299.566
 Amp 10000.000
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.000
 Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120000.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:172942
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 24 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



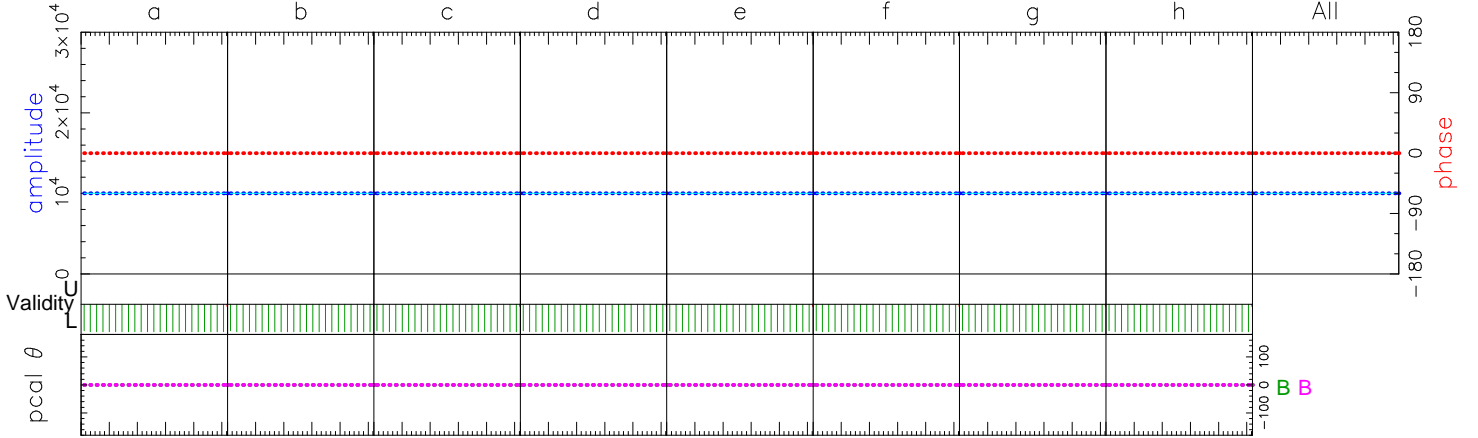
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/300	0/300	0/300	0/300	0/300	0/300	0/300	0/300	10000.0	10000.0
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Ampl.	4097.0
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	4097.0
B	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	PC phase	
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Manl PC	
									PC amp	
									Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00 +/- 6.5E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid sbdelay (usec)	0.00000E+00 +/- 5.1E-08
Phase delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid phdelay (usec)	0.00000E+00 +/- 1.1E-11
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid rate (us/s)	0.00000E+00 +/- 6.4E-14
Total phase (deg)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Resid phase (deg)	0.0 +/- 0.0

ph/seg (deg) 0.0 0.0 Theor. Amplitude 10000.000 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006
 B: az 241.8 el 41.0 pa 35.6 B: az 241.8 el 41.0 pa 35.6 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/BB..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/BB.W.1.02BGP8



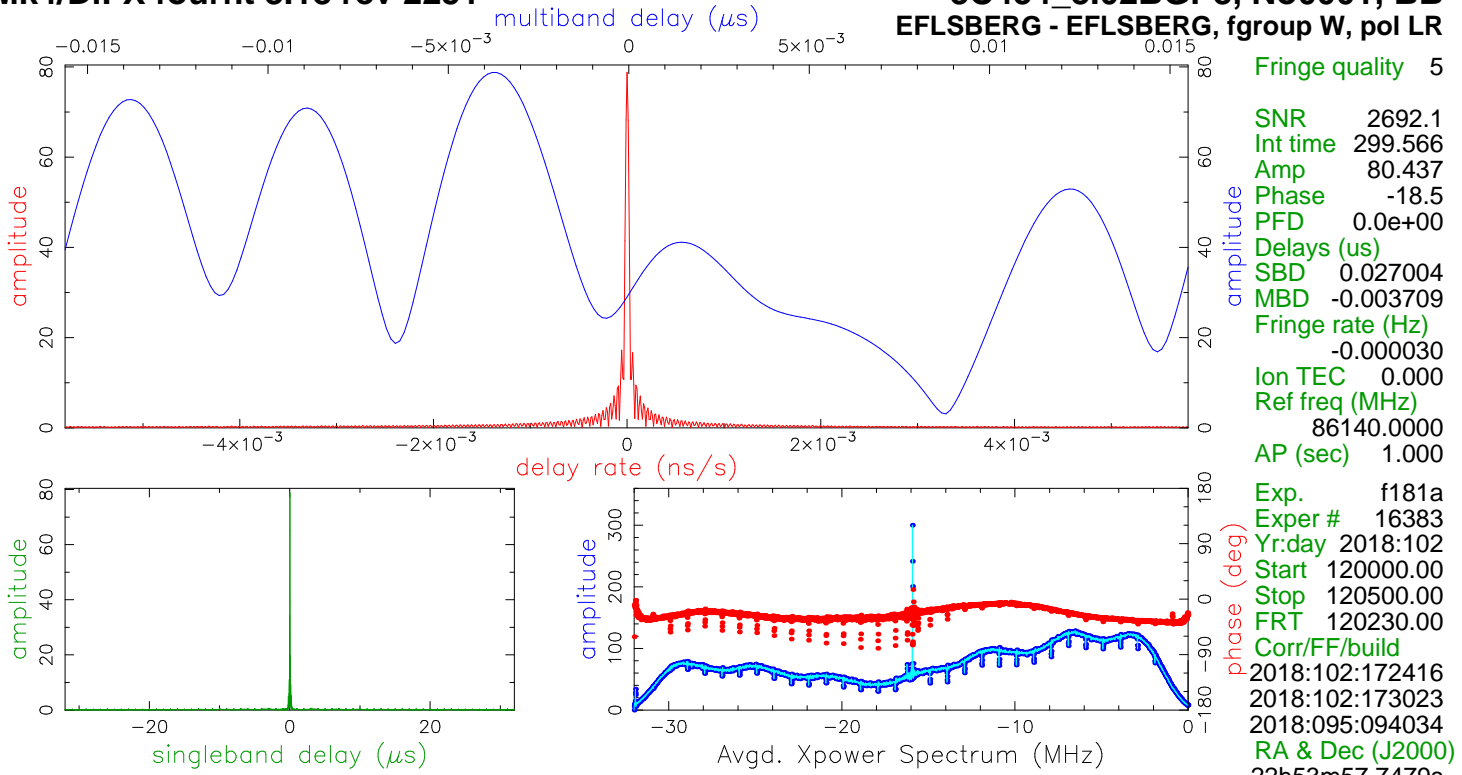
Fringe quality 9
 SNR 334679.3
 Int time 299.566
 Amp 10000.000
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.000
 Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120000.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:173002
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 24 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec

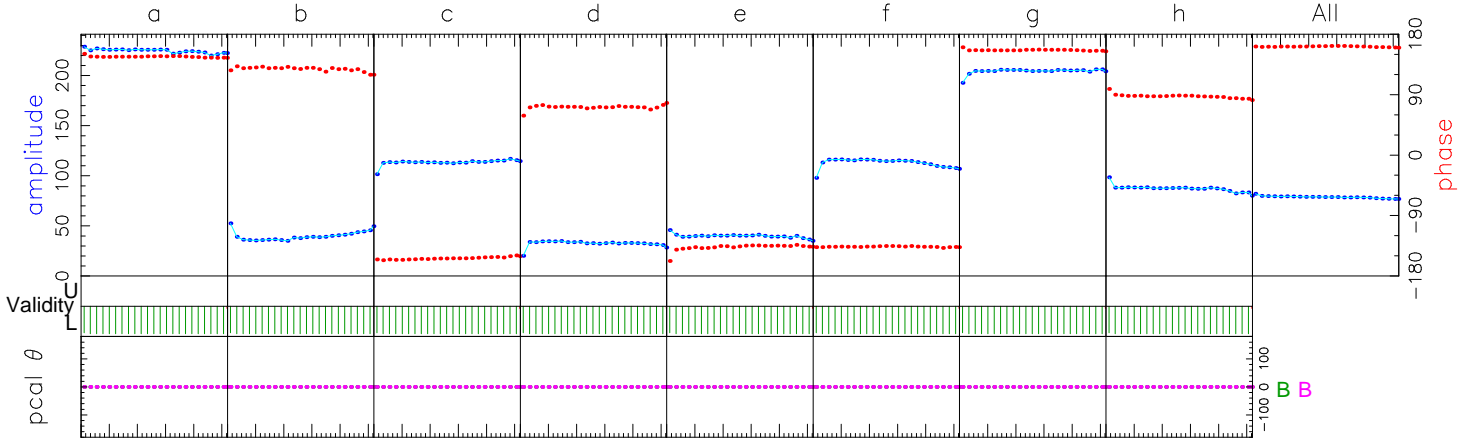


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/300	0/300	0/300	0/300	0/300	0/300	0/300	0/300	10000.0	10000.0
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Ampl.	4097.0
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	4097.0
B	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs	
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	PC phase	
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	ManI PC	
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	PC amp	
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00 +/- 6.5E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid sbdelay (usec)	0.00000E+00 +/- 5.1E-08
Phase delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid phdelay (usec)	0.00000E+00 +/- 1.1E-11
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid rate (us/s)	0.00000E+00 +/- 6.4E-14
Total phase (deg)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Resid phase (deg)	0.0 +/- 0.0

ph/seg (deg) 0.0 0.0 Theor. Amplitude 10000.000 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006
 0.0 0.0 Inc. frq. avg. 10000.000 ion window (TEC) 0.00 0.00



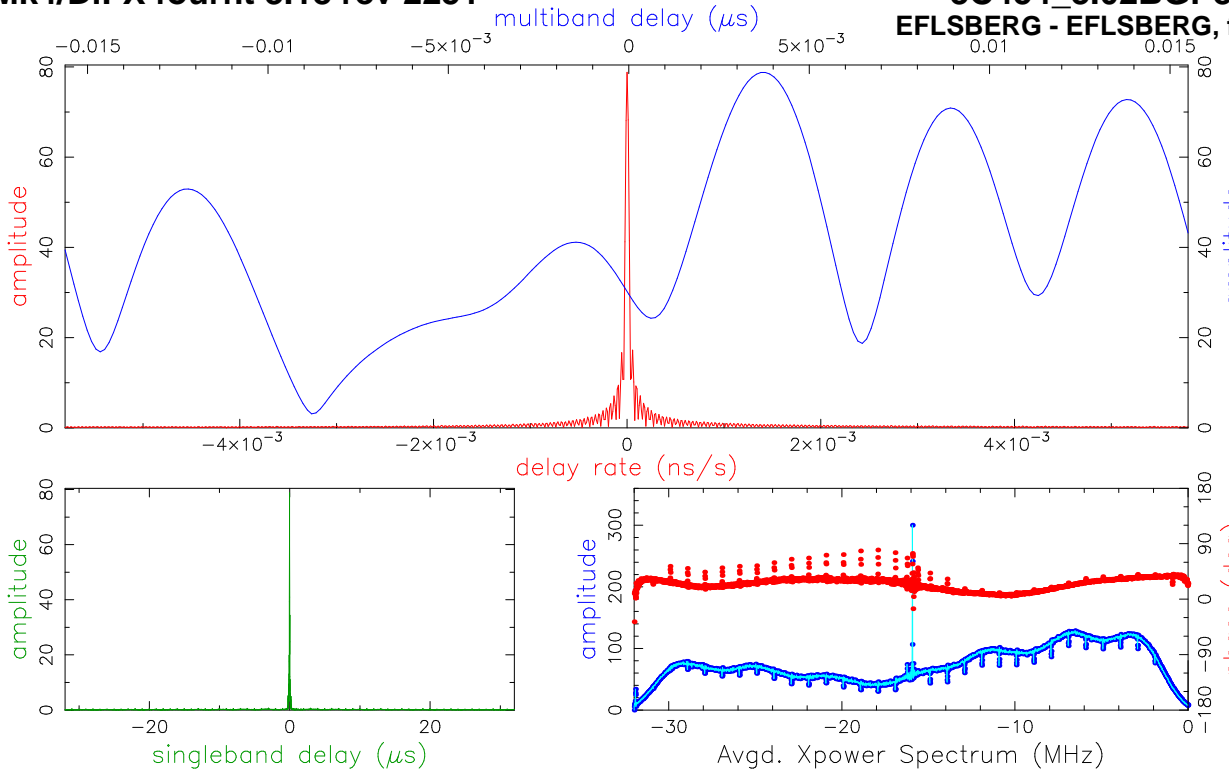
Amp. and Phase vs. time for each freq., 24 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/300	0/300	0/300	0/300	0/300	0/300	0/300	0/300	Sbd box	4100.5
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:B	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:B	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	
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	

Group delay (usec)(sbd)	2.754050000000E-02	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	-3.70950E-03	+/-	8.1E-07
Sband delay (usec)	2.700350000000E-02	Apriori clock (usec)	0.00000000E+00	Resid sbdelay (usec)	2.70035E-02	+/-	6.4E-06
Phase delay (usec)	5.20807313771E-06	Apriori clockrate (us/s)	0.00000000E+00	Resid phdelay (usec)	5.20807E-06	+/-	1.4E-09
Delay rate (us/s)	-3.48995820757E-10	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	-3.48996E-10	+/-	7.9E-12
Total phase (deg)		Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	-18.5	+/-	0.0

ph/seg (deg)	0.6	0.1	Amplitude	80.437 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-32.000	32.000
amp/seg (%)	2.4	0.2	Search (1024X32)	78.429	Pcal rate:	0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.016	0.016
ph/frq (deg)	64.0	0.1	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	dr window (ns/s)	-0.006	0.006
amp/frq (%)	92.2	0.1	Inc. seg. avg.	78.814	Sample rate(MSamp/s):	64	Data rate(Mb/s):	1024	ion window (TEC)	0.00	0.00
			Inc. frq. avg.	106.867			nlags:	4096 t_cohere infinite			

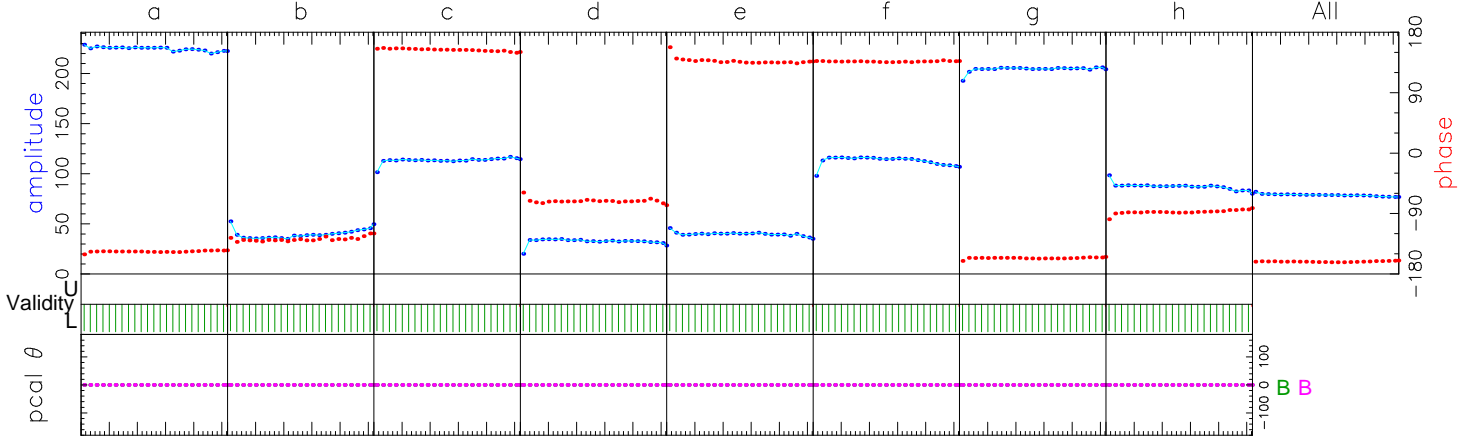


Fringe quality 5

SNR 2692.1
Int time 299.566
Amp 80.437
Phase 18.5
PFD 0.0e+00
Delays (us)
SBD -0.027004
MBD 0.003709
Fringe rate (Hz) 0.000030
Ion TEC 0.000
Ref freq (MHz) 86140.000
AP (sec) 1.000

Exp. f181a
Exper # 16383
Yr:day 2018:102
Start 120000.00
Stop 120500.00
FRT 120230.00
Corr/FF/build
2018:102:172416
2018:102:173045
2018:095:094034
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

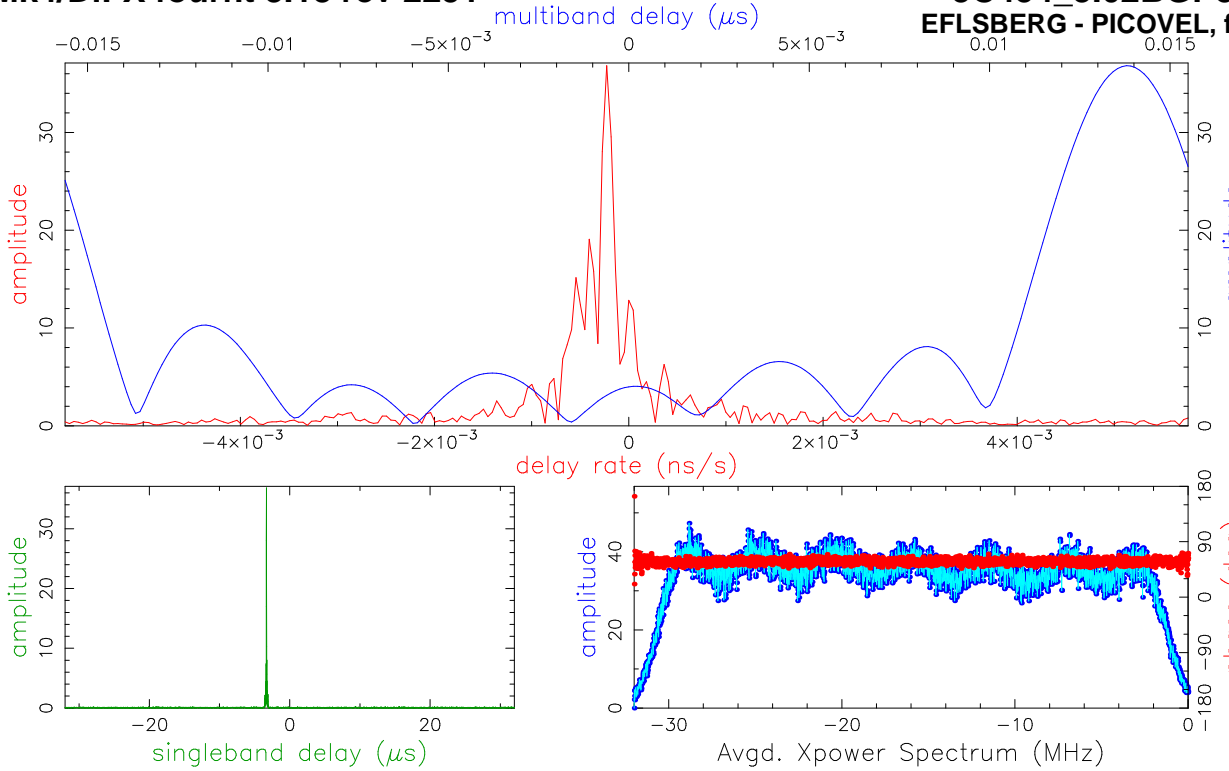
Amp. and Phase vs. time for each freq., 24 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/300	0/300	0/300	0/300	0/300	0/300	0/300	0/300		
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
B:B	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		
B	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		

Group delay (usec)(sbd)	-2.754050000000E-02	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	3.70950E-03	+/-	8.1E-07
Sband delay (usec)	-2.700350000000E-02	Apriori clock (usec)	0.000000000000E+00	Resid sbdelay (usec)	-2.70035E-02	+/-	6.4E-06
Phase delay (usec)	-5.20807313725E-06	Apriori clockrate (us/s)	0.000000000000E+00	Resid phdelay (usec)	-5.20807E-06	+/-	1.4E-09
Delay rate (us/s)	3.48995820757E-10	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	3.48996E-10	+/-	7.9E-12
Total phase (deg)		Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	18.5	+/-	0.0

ph/seg (deg)	0.6	Theor.	0.1	Amplitude	80.437 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	2.4		0.2	Search (1024X32)	78.429	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000
ph/frq (deg)	64.0		0.1	Inc. seg. avg.	78.814	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	92.2		0.1	Inc. frq. avg.	106.867	Sample rate (MSamp/s):	64	mb window (us)	-0.016 0.016
						Data rate (Mb/s):	1024	dr window (ns/s)	-0.006 0.006
						nlags:	4096 t_cohere infinite	ion window (TEC)	0.00 0.00

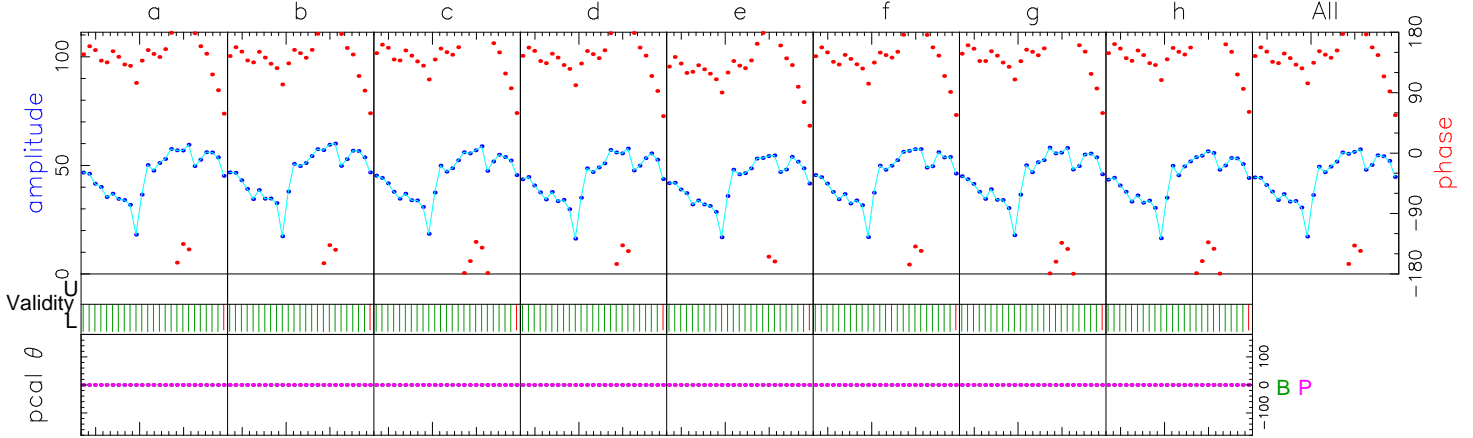


Fringe quality 6

SNR 711.9
Int time 98.545
Amp 37.105
Phase 330.1
PFD 0.0e+00
Delays (us)
SBD -3.314678
MBD 0.013822
Fringe rate (Hz)
-0.018253
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 1.000

Exp. f181a
Exper # 16383
Yr:day 2018:102
Start 120320.00
Stop 120500.00
FRT 120230.00
Corr/FF/build
2018:102:172416
2018:102:174332
2018:095:094034
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 25 segs, 4 APs / seg (4.00 sec / seg.), time ticks 5 sec



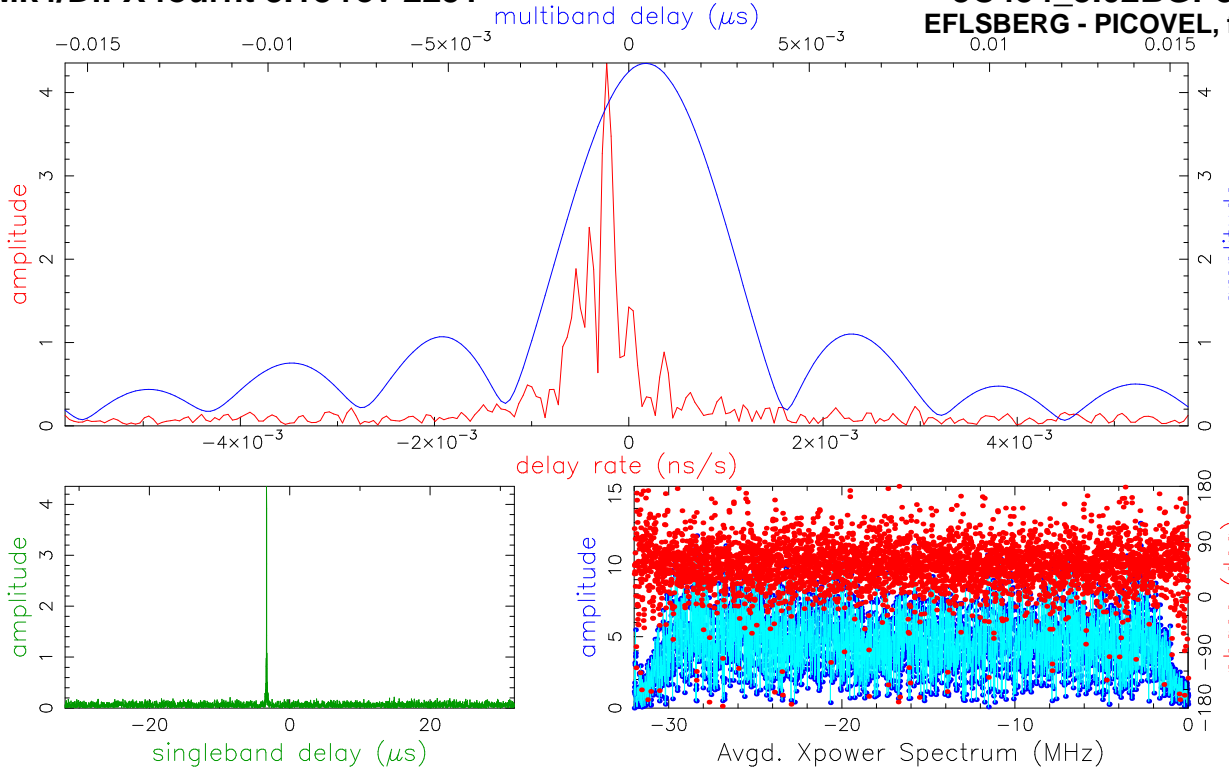
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/100	0/100	0/100	0/100	0/100	0/100	0/100	0/100		
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)		-3.18993994319E+03		Apriori delay (usec)		-3.18661001489E+03		Resid mbdelay (usec)	1.38217E-02	+/- 3.0E-06
Sband delay (usec)		-3.18992469339E+03		Apriori clock (usec)		2.81199999E+01		Resid sbdelay (usec)	-3.31468E+00	+/- 2.4E-05
Phase delay (usec)		-3.18661001005E+03		Apriori clockrate (us/s)		0.000000E+00		Resid phdelay (usec)	4.84059E-06	+/- 5.2E-09
Delay rate (us/s)		4.17132072096E-03		Apriori rate (us/s)		4.17153262020E-03		Resid rate (us/s)	-2.11899E-07	+/- 9.0E-11
Total phase (deg)			84.2	Apriori accel (us/s/s)		2.24293930717E-05		Resid phase (deg)	330.1	+/- 0.2

ph/seg (deg) 34.6 0.4
amp/seg (%) 33.5 0.7
ph/frq (deg) 7.0 0.2
amp/frq (%) 2.4 0.4

RMS Theor. Amplitude 37.105 +/- 0.052
Search (256X32) 35.733
Interp. 0.000
Inc. seg. avg. 44.664
Inc. frq. avg. 37.041

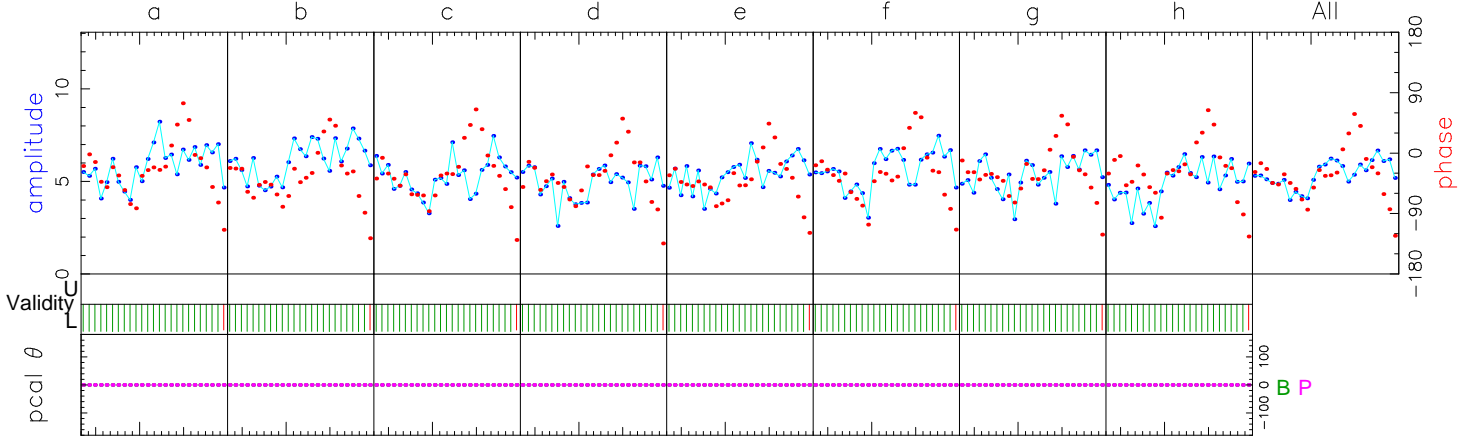
Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite

sb window (us) -32.000 32.000
mb window (us) -0.016 0.016
dr window (ns/s) -0.006 0.006
ion window (TEC) 0.00 0.00



Fringe quality 6
 SNR 83.6
 Int time 98.545
 Amp 4.356
 Phase 328.5
 PFD 0.0e+00
 Delays (us)
 SBD -3.297342
 MBD 0.000467
 Fringe rate (Hz)
 -0.018029
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.000
 Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120320.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:174338
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 25 segs, 4 APs / seg (4.00 sec / seg.), time ticks 5 sec



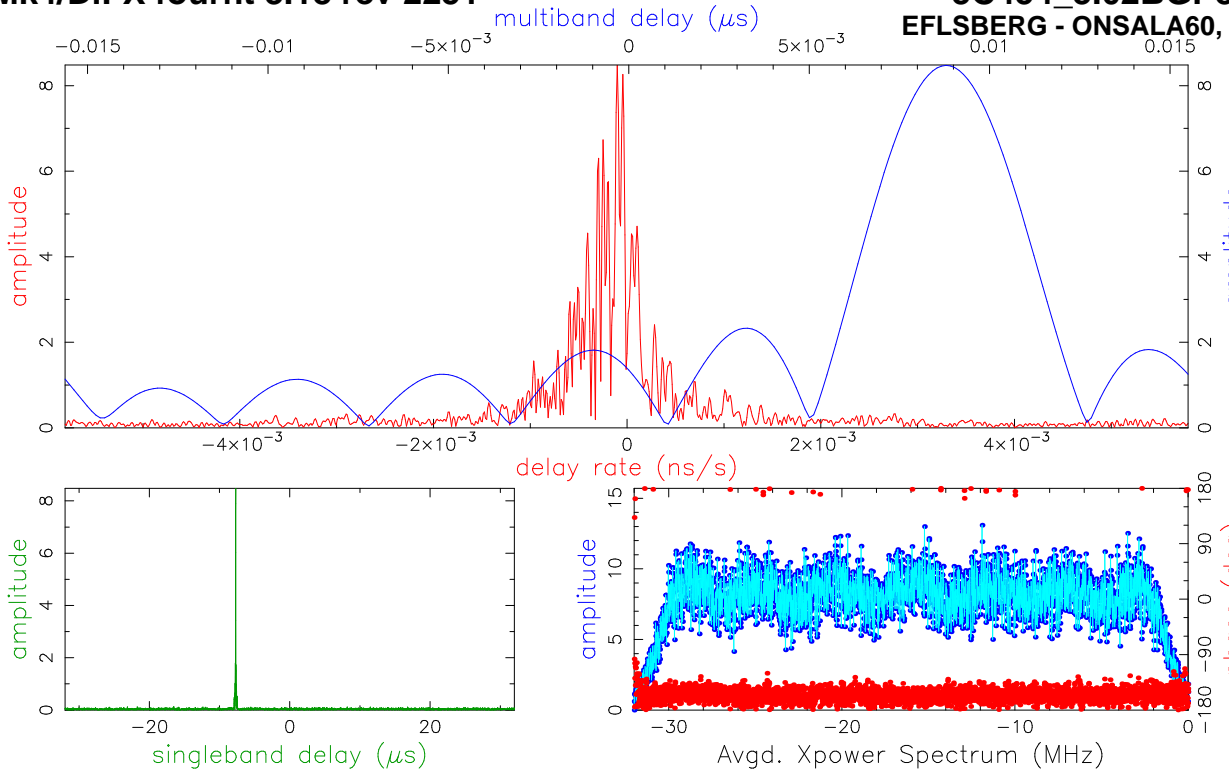
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-23.1	-35.0	-31.7	-34.2	-40.9	-31.6	-29.1	-25.1	Phase	-31.5
	4.6	4.9	4.2	4.0	4.5	4.5	4.4	3.7	Ampl.	4.4
	3674.7	3675.2	3674.8	3675.1	3674.9	3675.1	3674.8	3675.0	Sbd box	3674.9
U/L	0/100	0/100	0/100	0/100	0/100	0/100	0/100	0/100	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(sbd)	-3.18992204751E+03		Apriori delay (usec)		-3.18661001489E+03		Resid mbdelay (usec)		4.67388E-04	+/- 2.6E-05
Sband delay (usec)	-3.18990735689E+03		Apriori clock (usec)		2.81199999E+01		Resid sbdelay (usec)		-3.29734E+00	+/- 2.1E-04
Phase delay (usec)	-3.18661001591E+03		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-1.01448E-06	+/- 4.4E-08
Delay rate (us/s)	4.17132331848E-03		Apriori rate (us/s)		4.17153262020E-03		Resid rate (us/s)		-2.09302E-07	+/- 7.7E-10
Total phase (deg)	82.7		Apriori accel (us/s/s)		2.24293930717E-05		Resid phase (deg)		328.5	+/- 1.4

ph/seg (deg) 38.2 3.4
 amp/seg (%) 28.7 6.0
 ph/frq (deg) 6.1 1.9
 amp/frq (%) 8.2 3.4

RMS Theor. Amplitude 4.356 +/- 0.052
 Search (256X32) 4.091
 Interp. 0.000
 Inc. seg. avg. 5.377
 Inc. frq. avg. 4.370

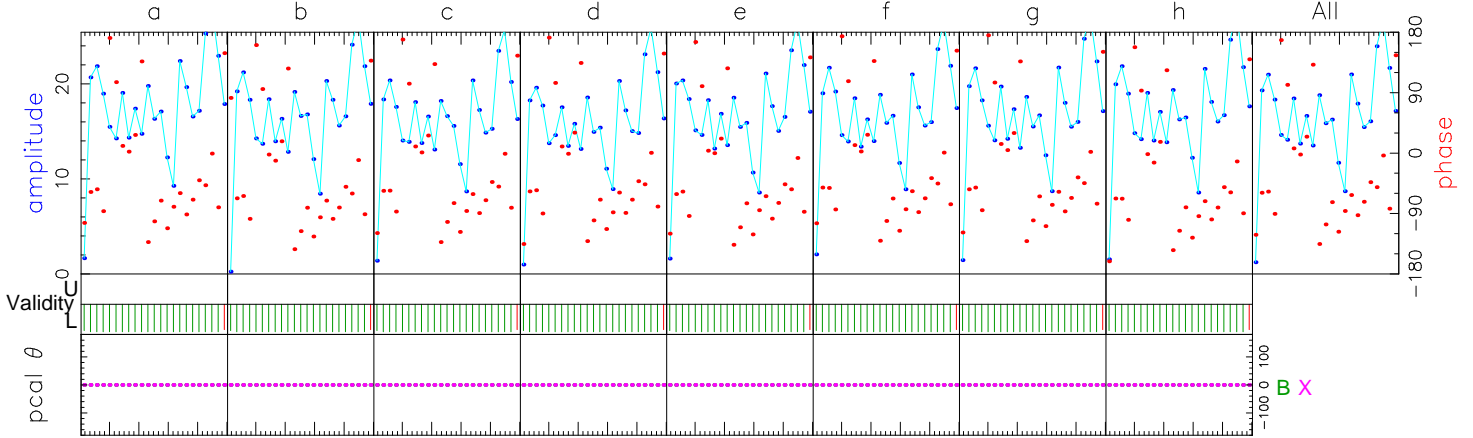
pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s)
 Bits/sample: 2x2 SampCntNorm: enabled
 Sample rate(MSamp/s): 64
 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite

sb window (us) -32.000 32.000
 mb window (us) -0.016 0.016
 dr window (ns/s) -0.006 0.006
 ion window (TEC) 0.00 0.00



Fringe quality 5
 SNR 282.9
 Int time 297.468
 Amp 8.483
 Phase 114.6
 PFD 0.0e+00
 Delays (us)
 SBD -7.694448
 MBD 0.008797
 Fringe rate (Hz)
 -0.008388
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.000
 Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120002.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:173106
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec

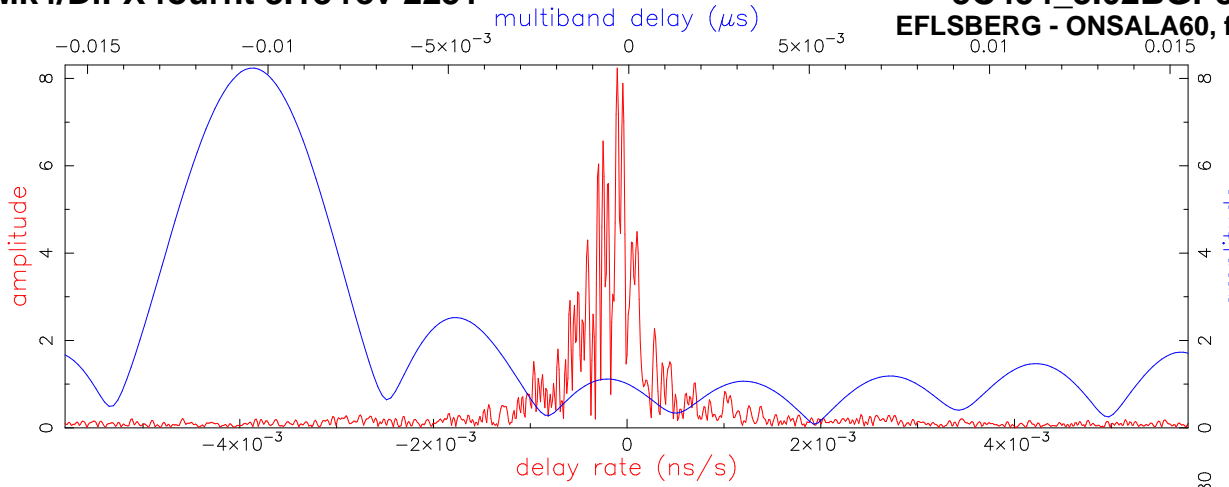


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-62.9	-73.7	-63.2	-62.5	-67.6	-60.7	-58.3	-73.9	Phase	-65.4
	9.0	8.6	8.2	8.1	8.3	8.6	8.7	8.7	Ampl.	8.5
	3112.0	3112.1	3112.3	3112.1	3112.1	3112.4	3111.9	3112.2	Sbd box	3112.1
U/L	0/298	0/298	0/298	0/298	0/298	0/298	0/298	0/298	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	

Group delay (usec)(sbd) 1.71651567519E+03 Apriori delay (usec) 1.72422562843E+03 Resid mbdelay (usec) 8.79676E-03 +/- 7.7E-06
 Sband delay (usec) 1.71653118093E+03 Apriori clock (usec) 2.0326942E+01 Resid sbdelay (usec) -7.69445E+00 +/- 6.1E-05
 Phase delay (usec) 1.72422562632E+03 Apriori clockrate (us/s) -3.8300000E-07 Resid phdelay (usec) -2.10786E-06 +/- 1.3E-08
 Delay rate (us/s) -5.27847027256E-02 Apriori rate (us/s) -5.27846053471E-02 Resid rate (us/s) -9.73785E-08 +/- 7.6E-11
 Total phase (deg) 342.5 Apriori accel (us/s/s) -1.12899241828E-05 Resid phase (deg) 114.6 +/- 0.4

RMS Theor. Amplitude 8.483 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 74.6 1.0 Search (1024X32) 8.259 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 113.2 1.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 6.3 0.6 Inc. seg. avg. 16.648 Sample rate(MSamp/s): 64 dr window (ns/s) -0.006 0.006
 amp/frq (%) 3.4 1.0 Inc. frq. avg. 8.512 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 241.8 el 41.0 pa 35.6 X: az 242.2 el 35.2 pa 29.9 u,v (fr/asec) 304.339 -860.443 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/BX..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/BX.W.5.02BGP8



Fringe quality 5

SNR 277.1

Int time 297.468

Amp 8.308

Phase 260.8

PFD 0.0e+00

Delays (us)

SBD -7.666444

MBD -0.010424

Fringe rate (Hz)

-0.008405

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 1.000

Exp. f181a

Exper # 16383

Yr:day 2018:102

Start 120002.00

Stop 120500.00

FRT 120230.00

Corr/FF/build

2018:102:172416

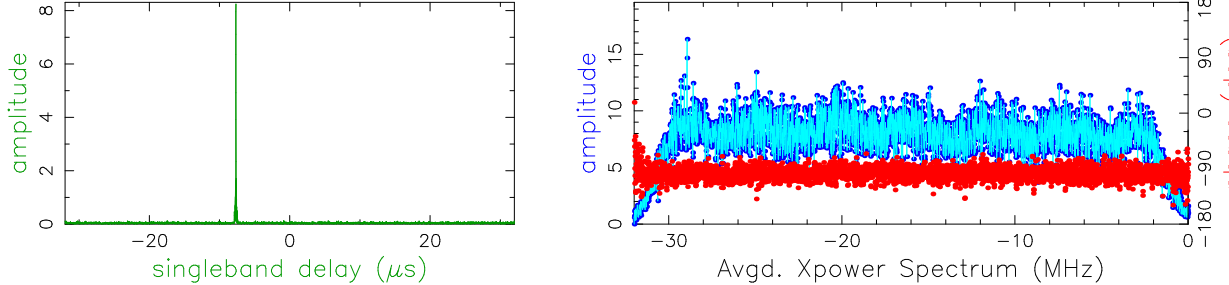
2018:102:173127

2018:095:094034

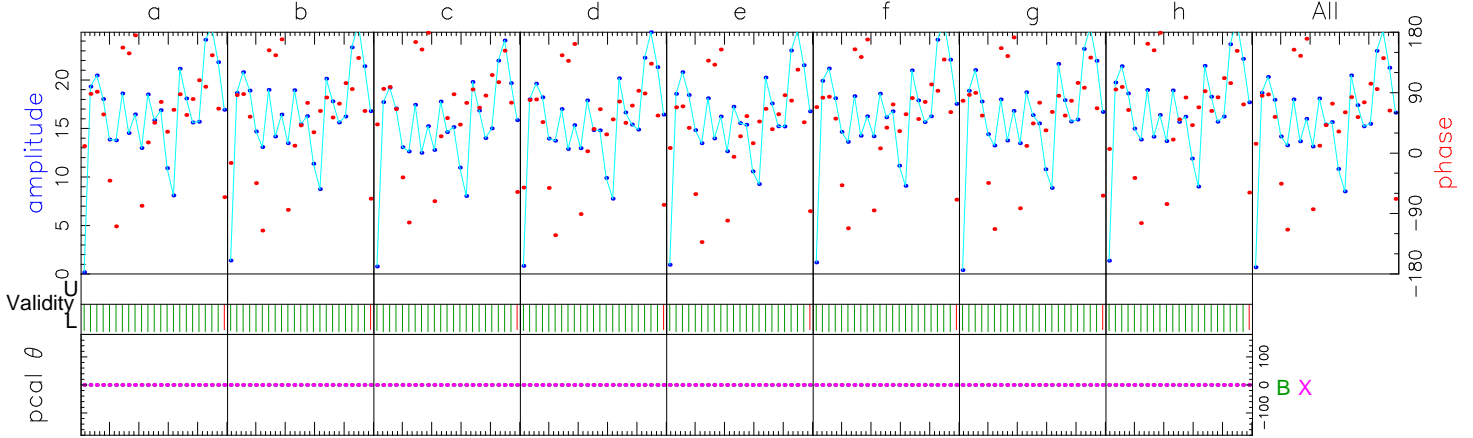
RA & Dec (J2000)

22h53m57.7479s

+16°08'53.561"



Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	84.8	80.8	92.4	73.3	63.9	78.4	82.6	89.6	Phase	80.8
	8.5	8.4	8.0	8.0	8.3	8.5	8.5	8.6	Ampl.	8.3
	3115.4	3115.9	3115.6	3115.6	3115.7	3116.0	3115.6	3115.8	Sbd box	3115.7
U/L	0/298	0/298	0/298	0/298	0/298	0/298	0/298	0/298	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.71655895469E+03		Apriori delay (usec)		1.72422562843E+03		Resid mbdelay (usec)		-1.04237E-02	+/- 7.8E-06
Sband delay (usec)	1.71655918393E+03		Apriori clock (usec)		2.0326942E+01		Resid sbdelay (usec)		-7.66644E+00	+/- 6.2E-05
Phase delay (usec)	1.72422563104E+03		Apriori clockrate (us/s)		-3.8300000E-07		Resid phdelay (usec)		2.60451E-06	+/- 1.3E-08
Delay rate (us/s)	-5.27847029172E-02		Apriori rate (us/s)		-5.27846053471E-02		Resid rate (us/s)		-9.75701E-08	+/- 7.8E-11
Total phase (deg)	128.7		Apriori accel (us/s/s)		-1.12899241828E-05		Resid phase (deg)		260.8	+/- 0.4

ph/seg (deg) 74.8 1.0 Theor. Amplitude 8.308 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 110.5 1.7 Search (1024X32) 7.956 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000

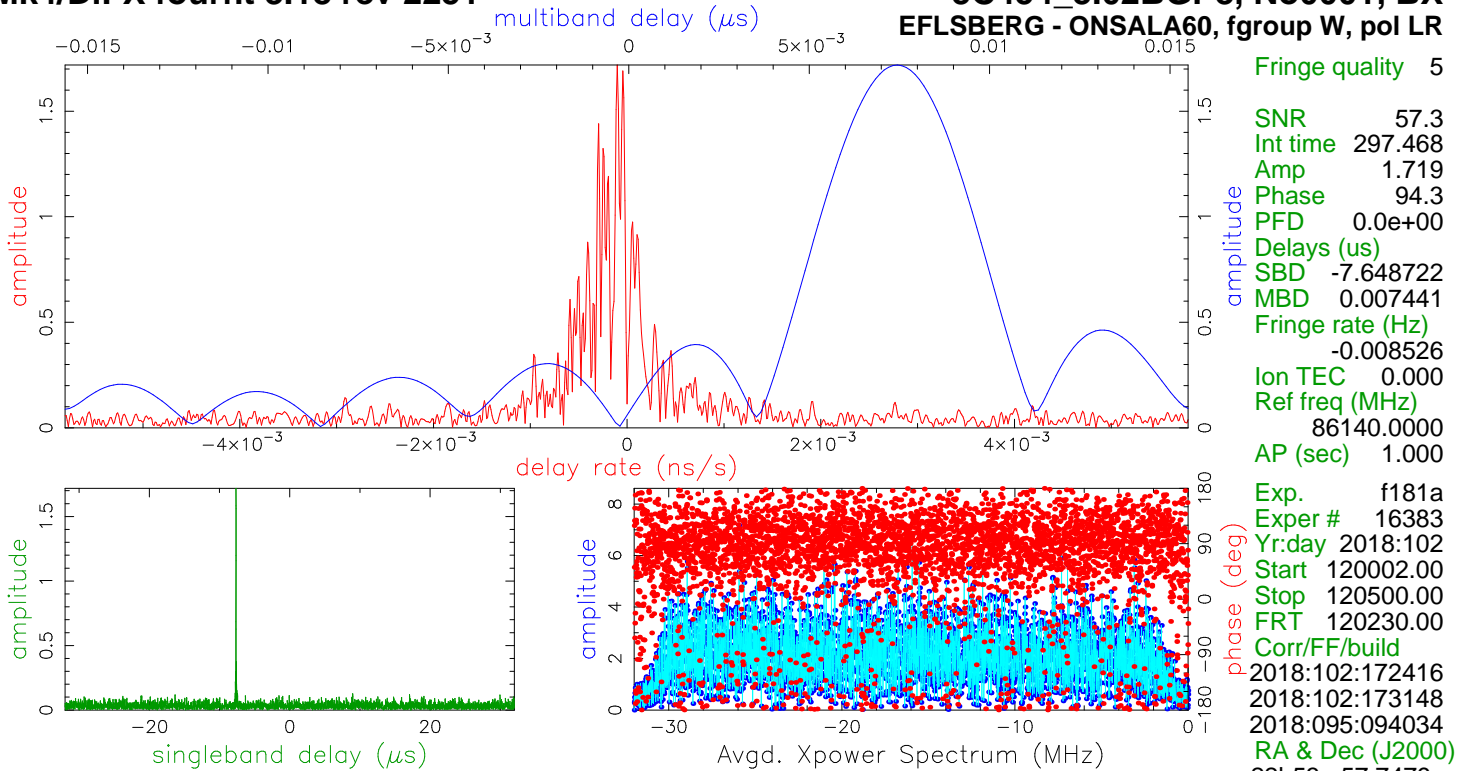
ph/frq (deg) 9.8 0.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 2.8 1.0 Inc. seg. avg. 16.063 Sample rate(MSamp/s): 64 dr window (ns/s) -0.006 0.006

amp/frq (%) 2.8 1.0 Inc. frq. avg. 8.330 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 241.8 el 41.0 pa 35.6 X: az 242.2 el 35.2 pa 29.9 u,v (fr/asec) 304.339 -860.443 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/BX..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/BX.W.6.02BGP8



Fringe quality 5

SNR 57.3

Int time 297.468

Amp 1.719

Phase 94.3

PFD 0.0e+00

Delays (us)

SBD -7.648722

MBD 0.007441

Fringe rate (Hz)

-0.008526

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 1.000

Exp. f181a

Exper # 16383

Yr:day 2018:102

Start 120002.00

Stop 120500.00

FRT 120230.00

Corr/FF/build

2018:102:172416

2018:102:173148

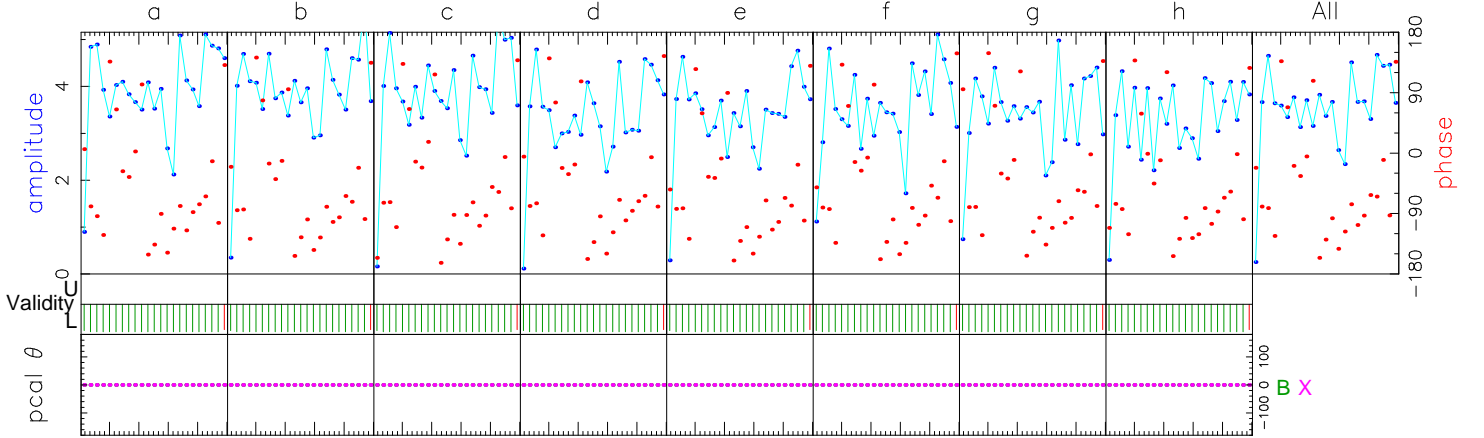
2018:095:094034

RA & Dec (J2000)

22h53m57.7479s

+16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-86.8	-89.7	-76.4	-85.7	-90.2	-86.2	-82.0	-88.2	Phase	-85.7
	1.9	2.0	1.8	1.7	1.6	1.7	1.6	1.6	Ampl.	1.7
	3117.8	3118.1	3118.2	3117.8	3117.8	3118.1	3117.6	3118.2	Sbd box	3118.0
U/L	0/298	0/298	0/298	0/298	0/298	0/298	0/298	0/298	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	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	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.71657681951E+03		Apriori delay (usec)		1.72422562843E+03		Resid mbdelay (usec)		7.44108E-03	+/- 3.8E-05
Sband delay (usec)	1.71657690643E+03		Apriori clock (usec)		2.0326942E+01		Resid sbdelay (usec)		-7.64872E+00	+/- 3.0E-04
Phase delay (usec)	1.72422562567E+03		Apriori clockrate (us/s)		-3.8300000E-07		Resid phdelay (usec)		-2.76216E-06	+/- 6.4E-08
Delay rate (us/s)	-5.27847043219E-02		Apriori rate (us/s)		-5.27846053471E-02		Resid rate (us/s)		-9.89748E-08	+/- 3.7E-10
Total phase (deg)	322.2		Apriori accel (us/s/s)		-1.12899241828E-05		Resid phase (deg)		94.3	+/- 2.0

RMS Theor. Amplitude 1.719 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 74.1 4.8 Search (1024X32) 1.676 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000

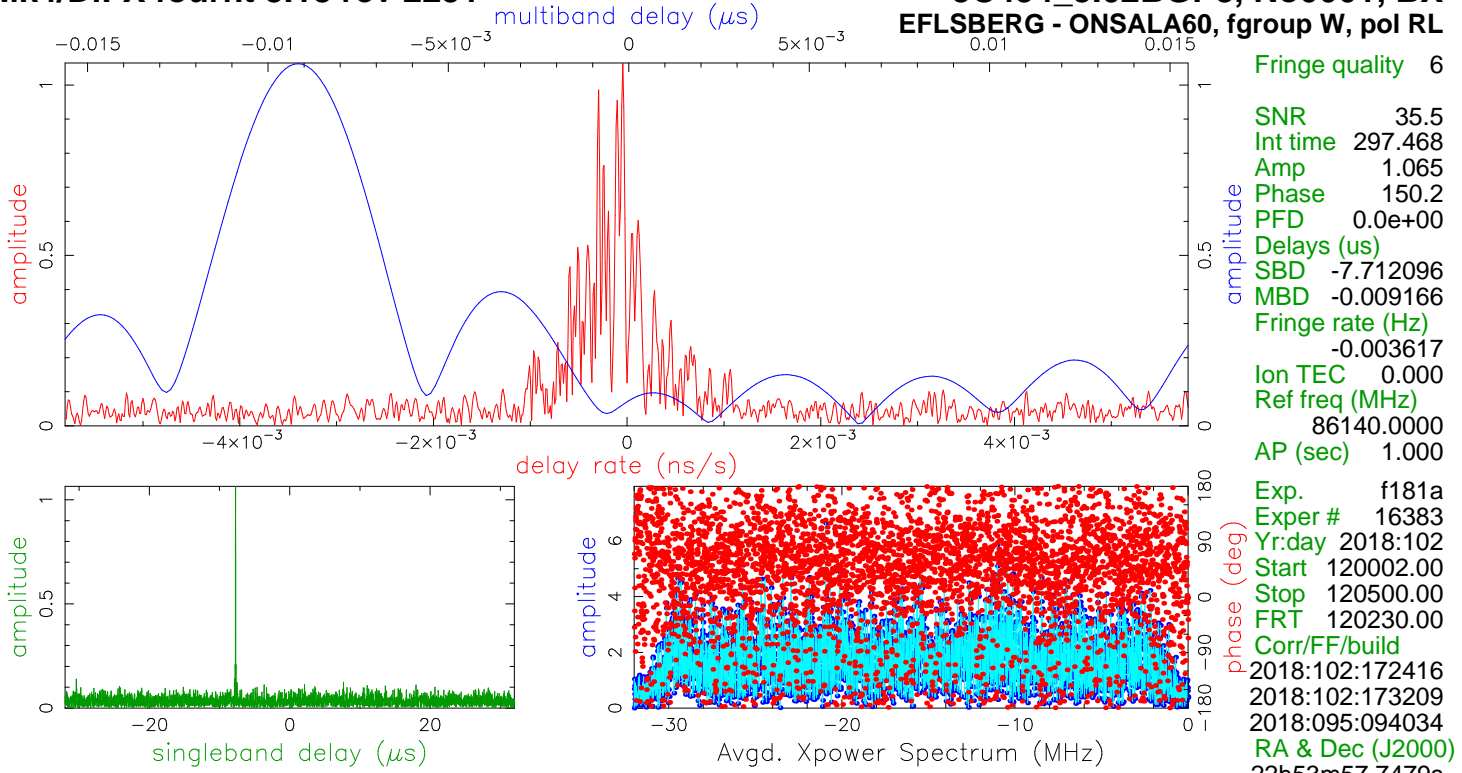
amp/seg (%) 117.8 8.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

ph/frq (deg) 4.9 2.8 Inc. seg. avg. 3.522 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006

amp/frq (%) 7.4 4.9 Inc. frq. avg. 1.722 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 241.8 el 41.0 pa 35.6 X: az 242.2 el 35.2 pa 29.9 u,v (fr/asec) 304.339 -860.443 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/BX..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/BX.W.7.02BGP8



Fringe quality 6

SNR 35.5

Int time 297.468

Amp 1.065

Phase 150.2

PFD 0.0e+00

Delays (us)

SBD -7.712096

MBD -0.009166

Fringe rate (Hz)

-0.003617

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 1.000

Exp. f181a

Exper # 16383

Yr:day 2018:102

Start 120002.00

Stop 120500.00

FRT 120230.00

Corr/FF/build

2018:102:172416

2018:102:173209

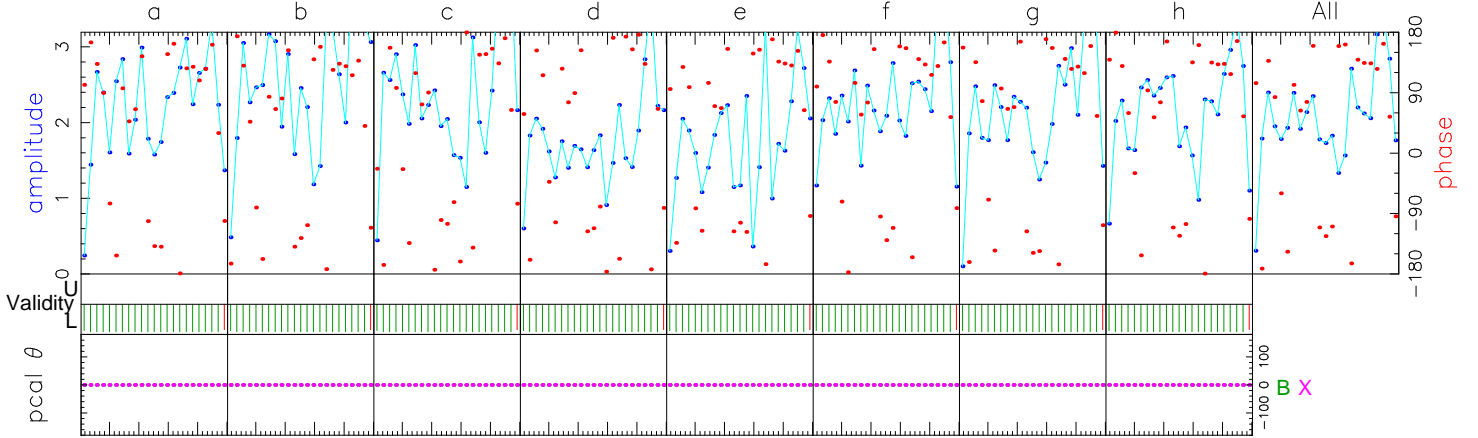
2018:095:094034

RA & Dec (J2000)

22h53m57.7479s

+16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
142.1	141.6	161.6	172.2	153.5	148.4	148.0	142.9	Phase	150.2
1.3	1.2	1.0	0.9	0.8	1.2	1.2	1.1	Ampl.	1.1
3109.3	3110.2	3109.9	3109.8	3109.8	3110.1	3109.7	3109.9	Sbd box	3109.9
U/L 0/298	0/298	0/298	0/298	0/298	0/298	0/298	0/298	APs used	
B -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X 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	
X 1000	1000	1000	1000	1000	1000	1000	1000		
B W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
X W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	1.71652896218E+03		Apriori delay (usec)	1.72422562843E+03		Resid mbdelay (usec)	-9.16625E-03	+/-	6.1E-05
Sband delay (usec)	1.71651353293E+03		Apriori clock (usec)	2.0326942E+01		Resid sbdelay (usec)	-7.71210E+00	+/-	4.9E-04
Phase delay (usec)	1.72422563327E+03		Apriori clockrate (us/s)	-3.8300000E-07		Resid phdelay (usec)	4.84325E-06	+/-	1.0E-07
Delay rate (us/s)	-5.27846473412E-02		Apriori rate (us/s)	-5.27846053471E-02		Resid rate (us/s)	-4.19941E-08	+/-	6.0E-10
Total phase (deg)	18.1		Apriori accel (us/s/s)	-1.12899241828E-05		Resid phase (deg)	150.2	+/-	3.2

ph/seg (deg) 67.0 7.7 Theor. Amplitude 1.065 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

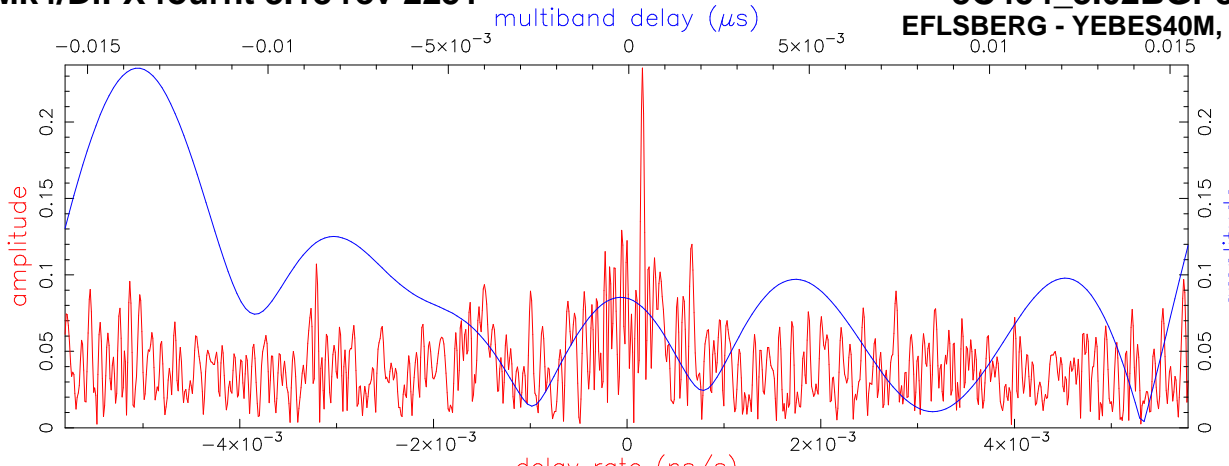
amp/seg (%) 110.9 13.5 Search (1024X32) 1.034 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000

ph/frq (deg) 11.7 4.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 14.6 8.0 Inc. seg. avg. 2.051 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006

B: az 241.8 el 41.0 pa 35.6 X: az 242.2 el 35.2 pa 29.9 u,v (fr/asec) 304.339 -860.443 ion window (TEC) 0.00 0.00 simultaneous interpolator

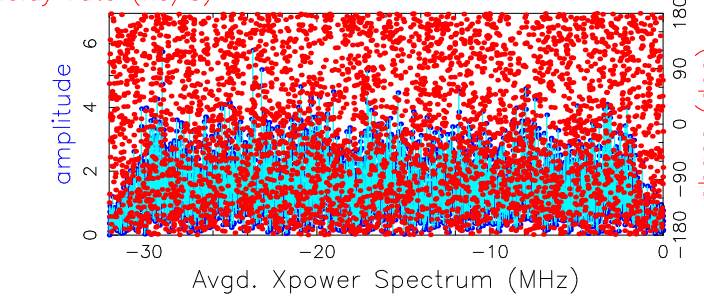
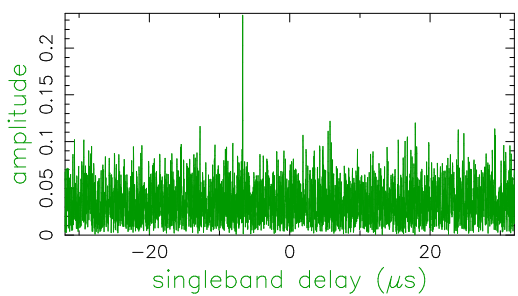
Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/BX..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/BX.W.8.02BGP8



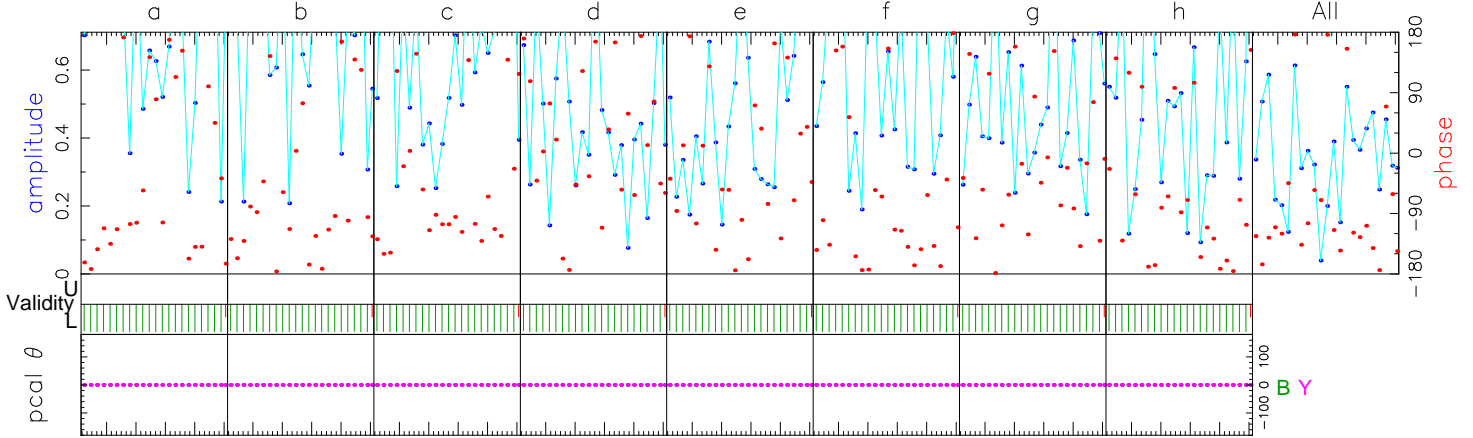
Fringe quality 9

SNR 7.8
Int time 290.448
Amp 0.237
Phase 224.2
PFD 1.5e-05
Delays (μs)
SBD -6.700702
MBD -0.013625
Fringe rate (Hz) 0.013897
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 1.000

Exp. f181a
Exper # 16383
Yr:day 2018:102
Start 120008.00
Stop 120500.00
FRT 120230.00
Corr/FF/build
2018:102:172416
2018:102:173517
2018:095:094034
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



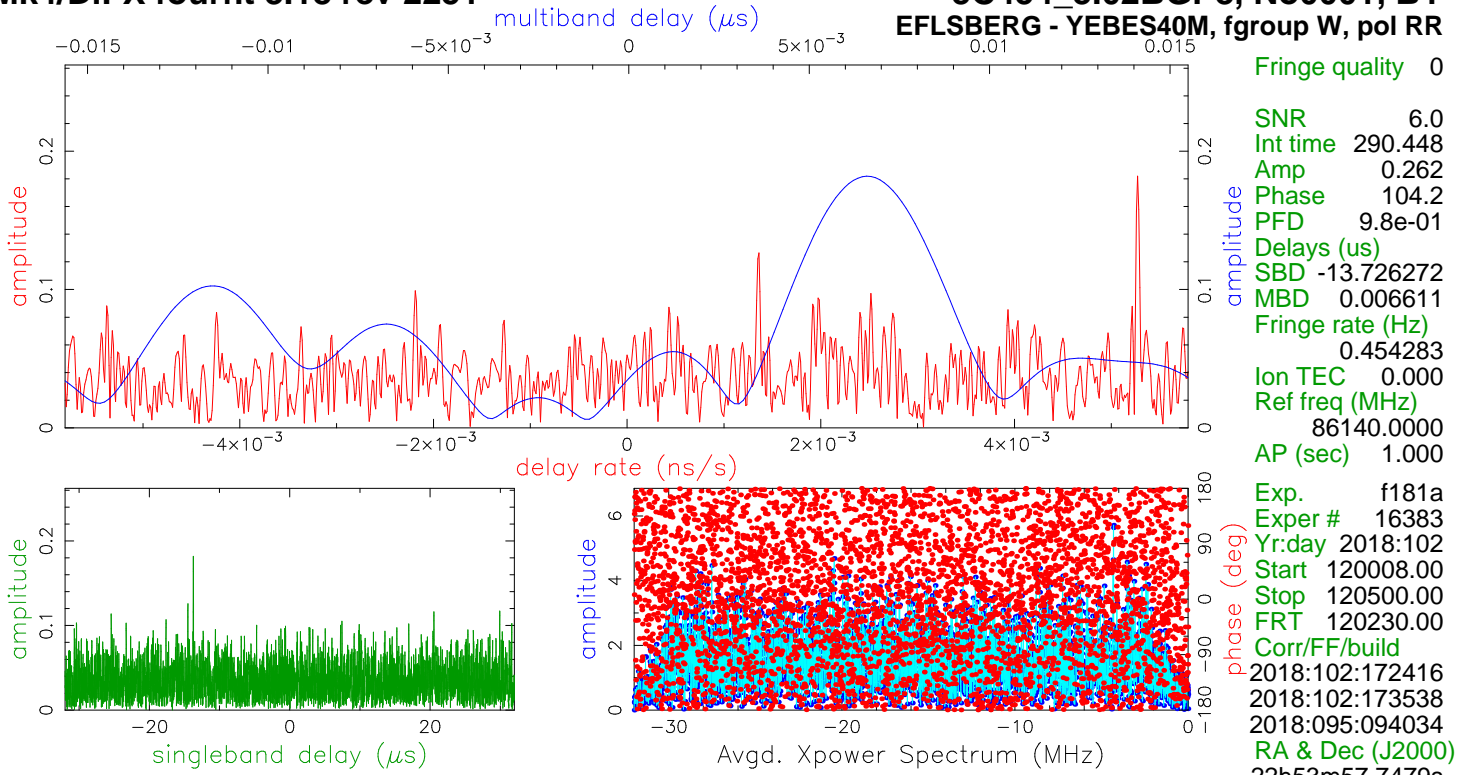
Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	Ampl.	0.2
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	3239.3
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
B:Y	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	ManI PC	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

Group delay (usec)(sbd)	-2.78875690063E+03	Apriori delay (usec)	-2.78205577597E+03	Resid mbdelay (usec)	-1.36247E-02	+/-	2.8E-04
Sband delay (usec)	-2.78875647747E+03	Apriori clock (usec)	2.2461927E+01	Resid sbdelay (usec)	-6.70070E+00	+/-	2.2E-03
Phase delay (usec)	-2.78205578034E+03	Apriori clockrate (us/s)	-4.7999999E-07	Resid phdelay (usec)	-4.37755E-06	+/-	4.7E-07
Delay rate (us/s)	-2.25800389577E-02	Apriori rate (us/s)	-2.25802002837E-02	Resid rate (us/s)	1.61326E-07	+/-	2.8E-09
Total phase (deg)	29.2	Apriori accel (us/s/s)	1.87693500956E-05	Resid phase (deg)	224.2	+/-	14.7

ph/seg (deg)	53.6	Theor.	35.2	Amplitude	0.237 +/- 0.030	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	77.2	Search (1024X32)	0.233	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000
ph/frq (deg)	31.3	Interp.	0.000	Inc. seg. avg.	0.291	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	57.3	Inc. frq. avg.	0.236	Inc. frq. avg.	0.236	Sample rate (MSamp/s):	64	mb window (us)	-0.016 0.016
						Data rate (Mb/s):	1024	dr window (ns/s)	-0.006 0.006
						nlags:	4096 t_cohere infinite	ion window (TEC)	0.00 0.00

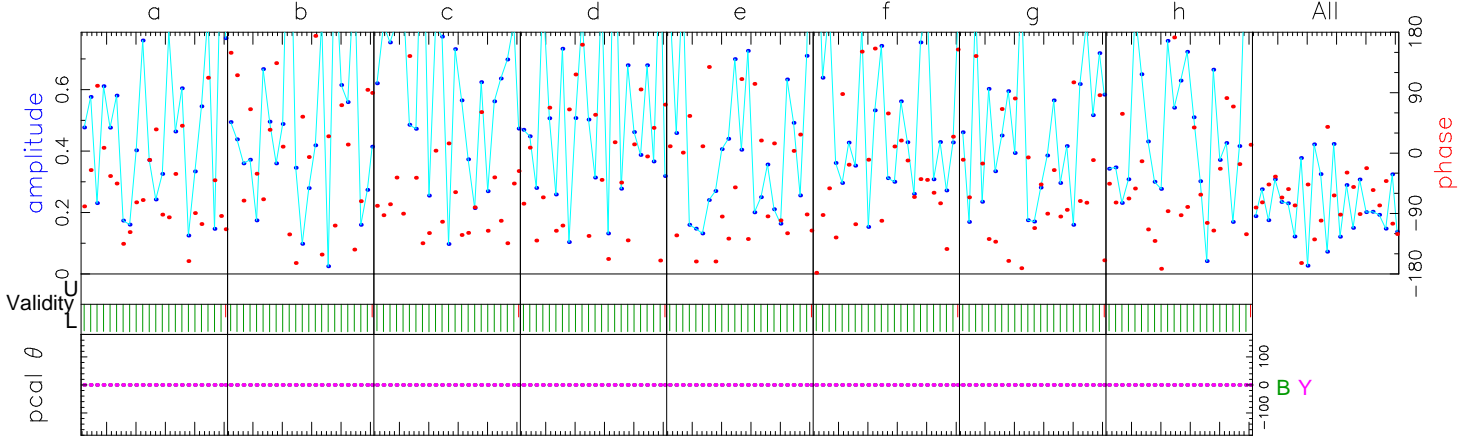


Fringe quality 0

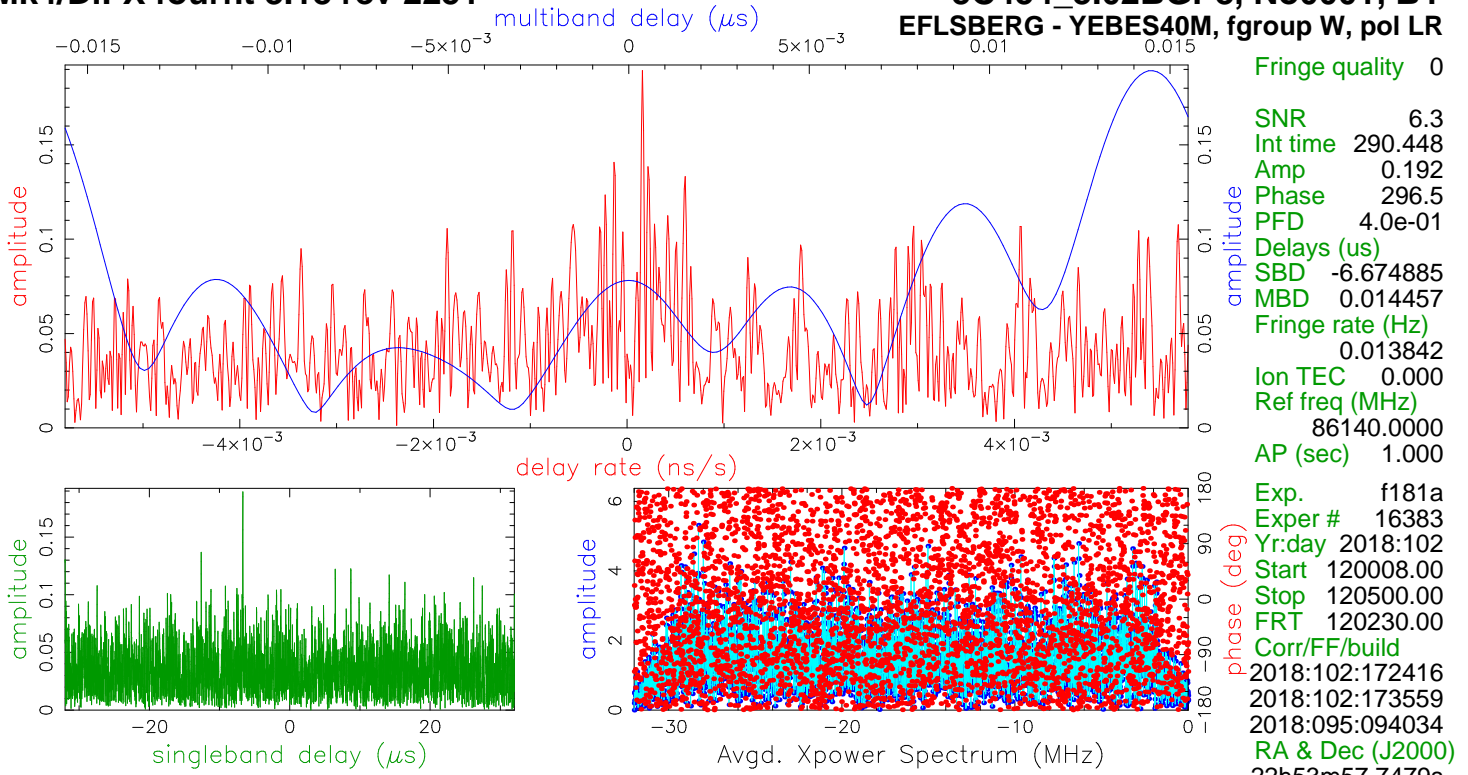
SNR 6.0
Int time 290.448
Amp 0.262
Phase 104.2
PFD 9.8e-01
Delays (us)
SBD -13.726272
MBD 0.006611
Fringe rate (Hz) 0.454283
Ion TEC 0.000
Ref freq (MHz) 86140.000
AP (sec) 1.000

Exp. f181a
Exper # 16383
Yr:day 2018:102
Start 120008.00
Stop 120500.00
FRT 120230.00
Corr/FF/build
2018:102:172416
2018:102:173538
2018:095:094034
RA & Dec (J2000) 22h53m57.7479s +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec

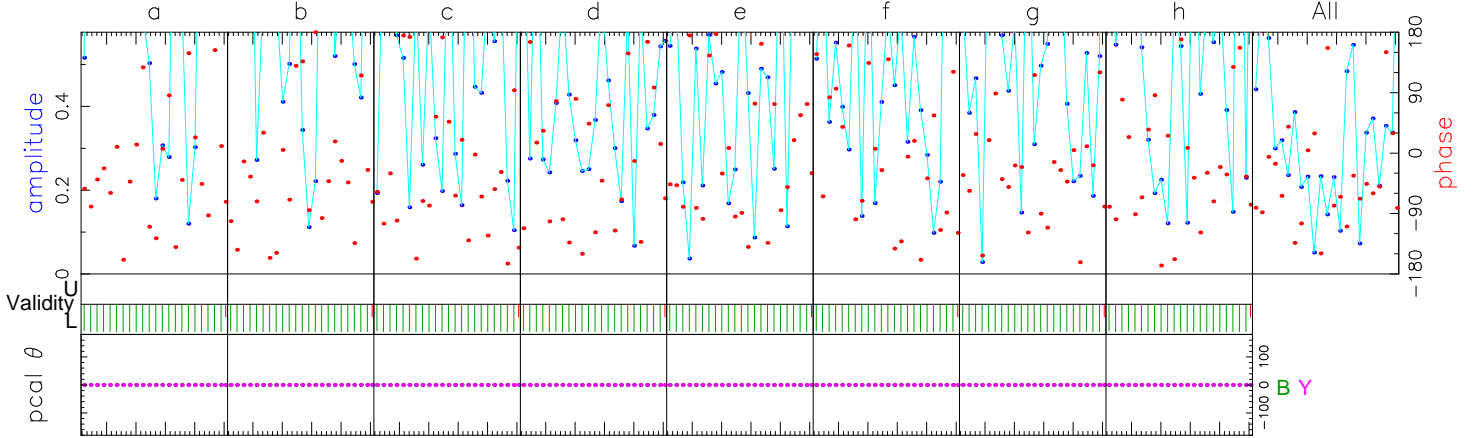


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
	-60.4	-132.2	-81.3	-50.7	-69.2	-71.1	-97.2	-71.8	Phase	-75.8	
	0.4	0.1	0.6	0.2	0.2	0.2	0.2	0.4	Ampl.	0.2	
	3493.4	2743.1	2339.7	8117.8	871.8	6593.2	922.6	7098.1	Sbd box	2340.0	
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	APs used		
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
B:Y	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		
Y	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids		
									Tracks		
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids		
									Tracks		
Group delay (usec)(sbd)	-2.79576791484E+03		Apriori delay (usec)		-2.78205577597E+03		Resid mbdelay (usec)		6.61113E-03	+/- 3.6E-04	
Sband delay (usec)	-2.79578204797E+03		Apriori clock (usec)		2.2461927E+01		Resid sbdelay (usec)		-1.37263E+01	+/- 2.9E-03	
Phase delay (usec)	-2.78205577841E+03		Apriori clockrate (us/s)		-4.7999999E-07		Resid phdelay (usec)		-2.44513E-06	+/- 6.2E-07	
Delay rate (us/s)	-2.25749265107E-02		Apriori rate (us/s)		-2.25802002837E-02		Resid rate (us/s)		5.27377E-06	+/- 3.7E-09	
Total phase (deg)	269.2		Apriori accel (us/s/s)		1.87693500956E-05		Resid phase (deg)		104.2	+/- 19.1	
RMS	41.2	45.8	Amplitude	0.262 +/- 0.044		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	63.5	80.0	Search (1024X32)	0.180		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-32.000	32.000	
amp/seg (%)	27.7	27.0	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	53.4	47.2	Inc. seg. avg.	0.252		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.006	0.006	
amp/frq (%)			Inc. frq. avg.	0.248		Data rate(Mb/s): 1024		nlags: 4096 t_cohere infinite	ion window (TEC)	0.00	0.00



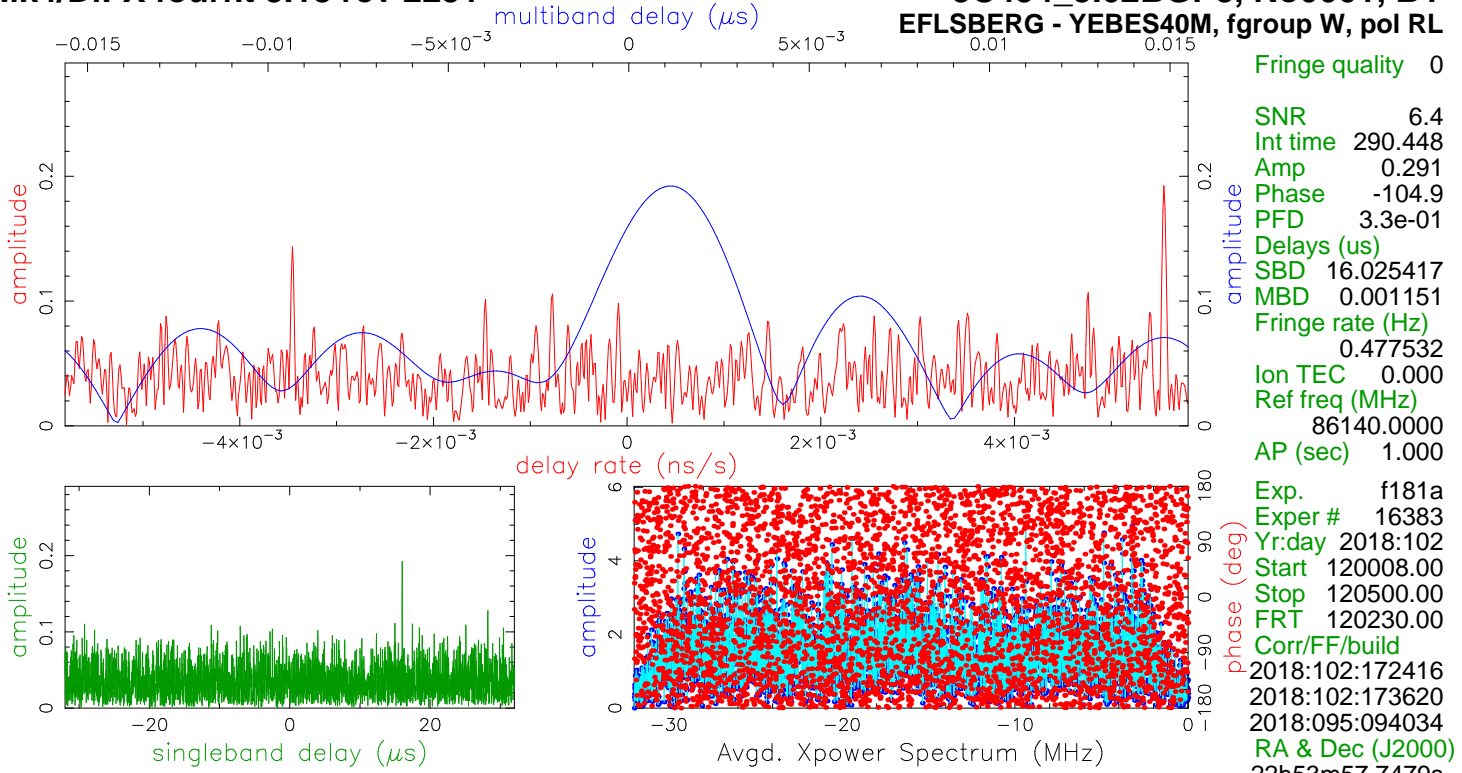
Fringe quality 0
SNR 6.3
Int time 290.448
Amp 0.192
Phase 296.5
PFD 4.0e-01
Delays (us)
SBD -6.674885
MBD 0.014457
Fringe rate (Hz)
0.013842
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 1.000
Exp. f181a
Exper # 16383
Yr:day 2018:102
Start 120008.00
Stop 120500.00
FRT 120230.00
Corr/FF/build
2018:102:172416
2018:102:173559
2018:095:094034
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



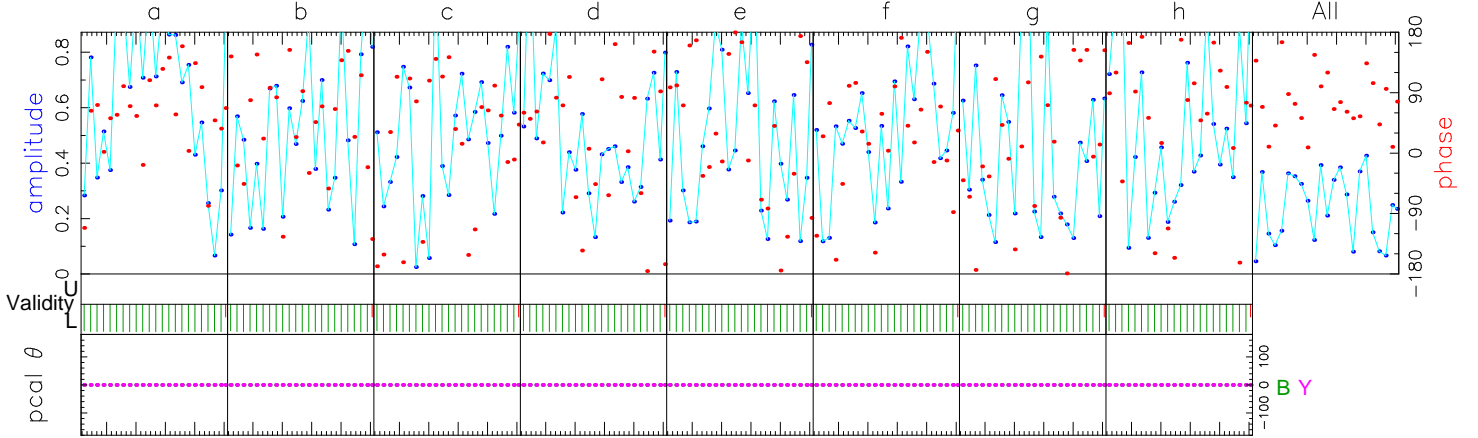
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-54.8	-62.4	-81.7	-91.8	-58.0	-137.9	-29.8	-76.4	Phase	-63.5
	0.4	0.3	0.2	0.1	0.1	0.3	0.2	0.2	Ampl.	0.2
	969.4	7897.4	4622.2	1708.2	6264.3	7277.1	2233.8	3857.9	Sbd box	3242.6
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	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	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.78872881869E+03		Apriori delay (usec)		-2.78205577597E+03		Resid mbdelay (usec)		1.44573E-02	+/- 3.4E-04
Sband delay (usec)	-2.78873066097E+03		Apriori clock (usec)		2.2461927E+01		Resid sbdelay (usec)		-6.67488E+00	+/- 2.7E-03
Phase delay (usec)	-2.78205577801E+03		Apriori clockrate (us/s)		-4.7999999E-07		Resid phdelay (usec)		-2.04636E-06	+/- 5.8E-07
Delay rate (us/s)	-2.25800395911E-02		Apriori rate (us/s)		-2.25802002837E-02		Resid rate (us/s)		1.60693E-07	+/- 3.5E-09
Total phase (deg)	101.5		Apriori accel (us/s/s)		1.87693500956E-05		Resid phase (deg)		296.5	+/- 18.1

RMS Theor. Amplitude 0.192 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 66.1 43.4 Search (1024X32) 0.187 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 114.1 75.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 36.7 25.6 Inc. seg. avg. 0.251 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006
 amp/frq (%) 54.5 44.6 Inc. frq. avg. 0.188 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite ion window (TEC) 0.00 0.00
 B: az 241.8 el 41.0 pa 35.6 Y: az 240.3 el 52.0 pa 43.7 u,v (fr/asec) 152.132 1468.550 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/BY..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/BY.W.19.02BGP8



Fringe quality 0
 SNR 6.4
 Int time 290.448
 Amp 0.291
 Phase -104.9
 PFD 3.3e-01
 Delays (us)
 SBD 16.025417
 MBD 0.001151
 Fringe rate (Hz) 0.477532
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 1.000
 Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120008.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:173620
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

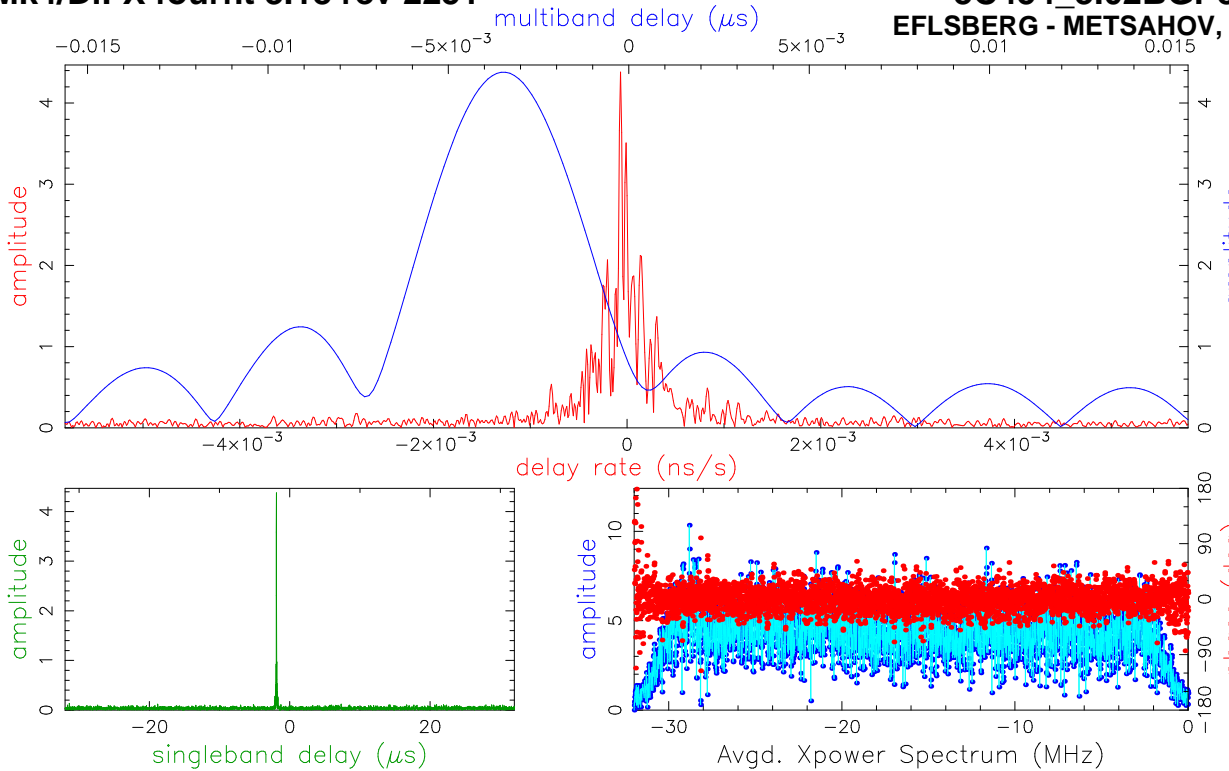
Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	76.1	70.3	92.2	90.7	48.4	52.1	47.9	101.0	Phase	75.1
	0.7	0.3	0.2	0.3	0.2	0.3	0.2	0.4	Ampl.	0.3
	6147.8	5686.4	8098.4	3618.2	3524.1	2528.1	3561.3	473.7	Sbd box	6148.3
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.76602337477E+03		Apriori delay (usec)		-2.78205577597E+03		Resid mbdelay (usec)		1.15119E-03	+/- 3.4E-04
Sband delay (usec)	-2.76603035797E+03		Apriori clock (usec)		2.2461927E+01		Resid sbdelay (usec)		1.60254E+01	+/- 2.7E-03
Phase delay (usec)	-2.78205577354E+03		Apriori clockrate (us/s)		-4.7999999E-07		Resid phdelay (usec)		2.42284E-06	+/- 5.8E-07
Delay rate (us/s)	-2.25746566092E-02		Apriori rate (us/s)		-2.25802002837E-02		Resid rate (us/s)		5.54367E-06	+/- 3.4E-09
Total phase (deg)	-299.9		Apriori accel (us/s/s)		1.87693500956E-05		Resid phase (deg)		-104.9	+/- 18.0

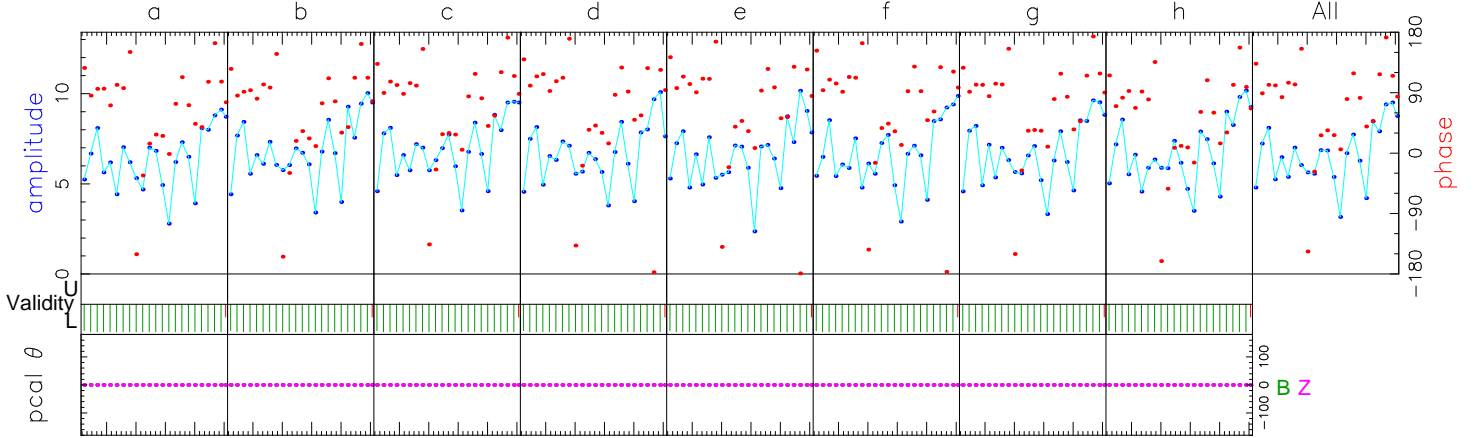
RMS Theor. Amplitude 0.291 +/- 0.046 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 43.0 43.1 Search (1024X32) 0.188 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 67.7 75.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 23.2 25.4 Inc. seg. avg. 0.282 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006
 amp/frq (%) 50.2 44.4 Inc. frq. avg. 0.277 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 241.8 el 41.0 pa 35.6 Y: az 240.3 el 52.0 pa 43.7 u,v (fr/asec) 152.132 1468.550 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/BY..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/BY.W.20.02BGP8



Fringe quality 5
 SNR 147.5
 Int time 291.445
 Amp 4.469
 Phase 271.5
 PFD 0.0e+00
 Delays (us)
 SBD -1.894299
 MBD -0.003469
 Fringe rate (Hz)
 -0.005682
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.000
 Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120008.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:173352
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec

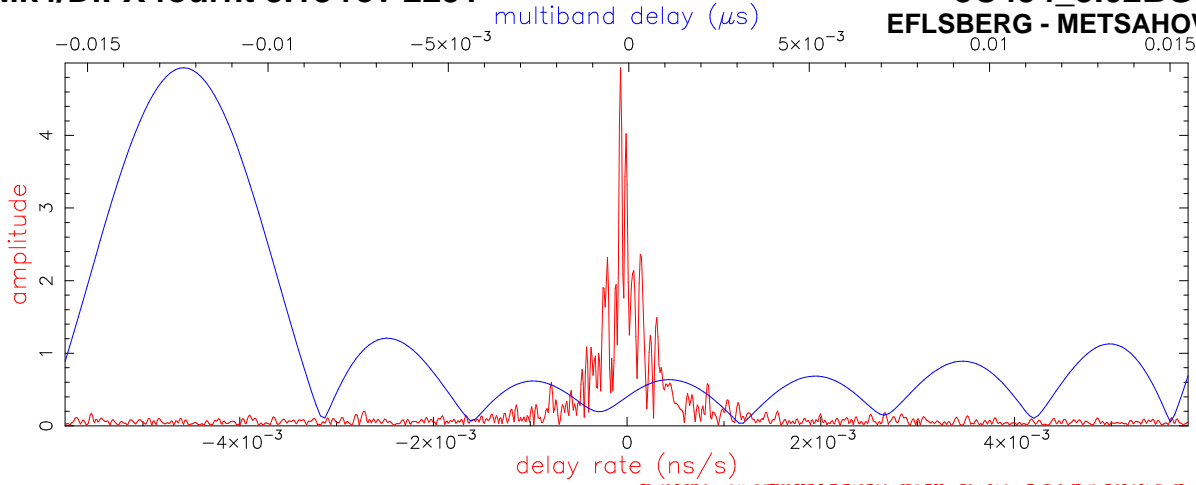


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	Ampl.	91.5
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	3854.5
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
B:Z	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	ManI PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

Group delay (usec)(sbd) 3.96086643108E+03 Apriori delay (usec) 3.96277614983E+03 Resid mbdelay (usec) -3.46875E-03 +/- 1.5E-05
 Sband delay (usec) 3.96088185083E+03 Apriori clock (usec) 2.6311983E+01 Resid sbdelay (usec) -1.89430E+00 +/- 1.2E-04
 Phase delay (usec) 3.96277615278E+03 Apriori clockrate (us/s) -1.0400000E-07 Resid phdelay (usec) 2.94956E-06 +/- 2.5E-08
 Delay rate (us/s) -9.78785288451E-03 Apriori rate (us/s) -9.78778692212E-03 Resid rate (us/s) -6.59624E-08 +/- 1.5E-10
 Total phase (deg) 108.1 Apriori accel (us/s/s) -2.39691900478E-05 Resid phase (deg) 271.5 +/- 0.8

RMS Theor. Amplitude 4.469 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 55.0 1.9 Search (1024X32) 4.262 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 59.2 3.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 10.3 1.1 Inc. seg. avg. 6.590 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006
 amp/frq (%) 2.9 1.9 Inc. frq. avg. 4.433 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 241.8 el 41.0 pa 35.6 Z: az 252.8 el 28.1 pa 29.7 u,v (fr/asec) 36.344 -1367.366 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/BZ..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/BZ.W.13.02BGP8



Fringe quality 5

SNR 165.0

Int time 291.445

Amp 4.998

Phase 193.5

PFD 0.0e+00

Delays (us)

SBD -1.887609

MBD -0.012342

Fringe rate (Hz)

-0.005697

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 1.000

Exp. f181a

Exper # 16383

Yr:day 2018:102

Start 120008.00

Stop 120500.00

FRT 120230.00

Corr/FF/build

2018:102:172416

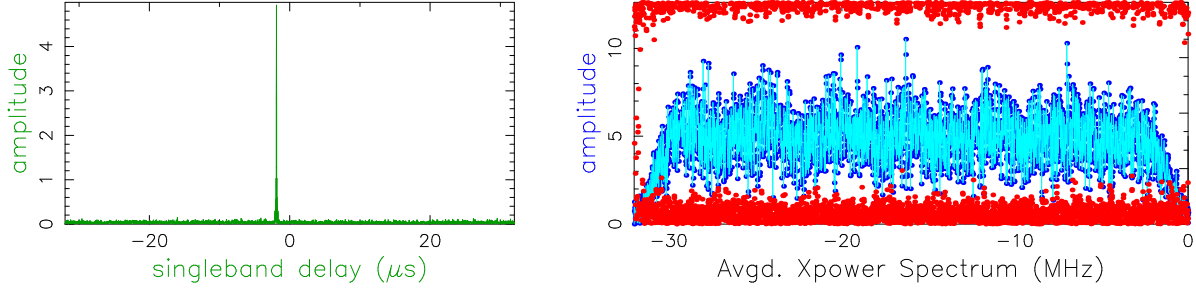
2018:102:173413

2018:095:094034

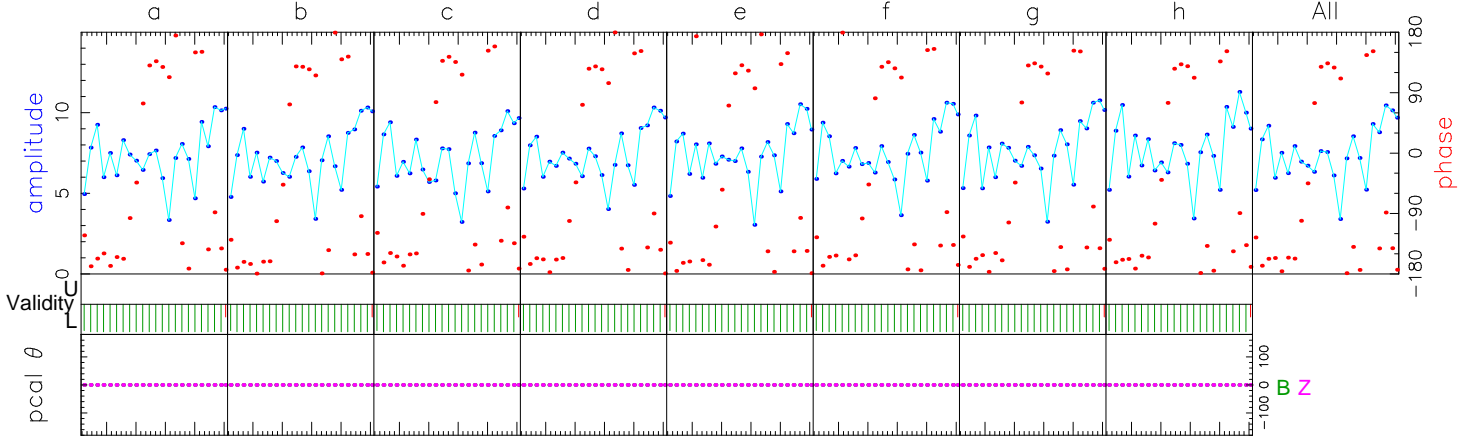
RA & Dec (J2000)

22h53m57.7479s

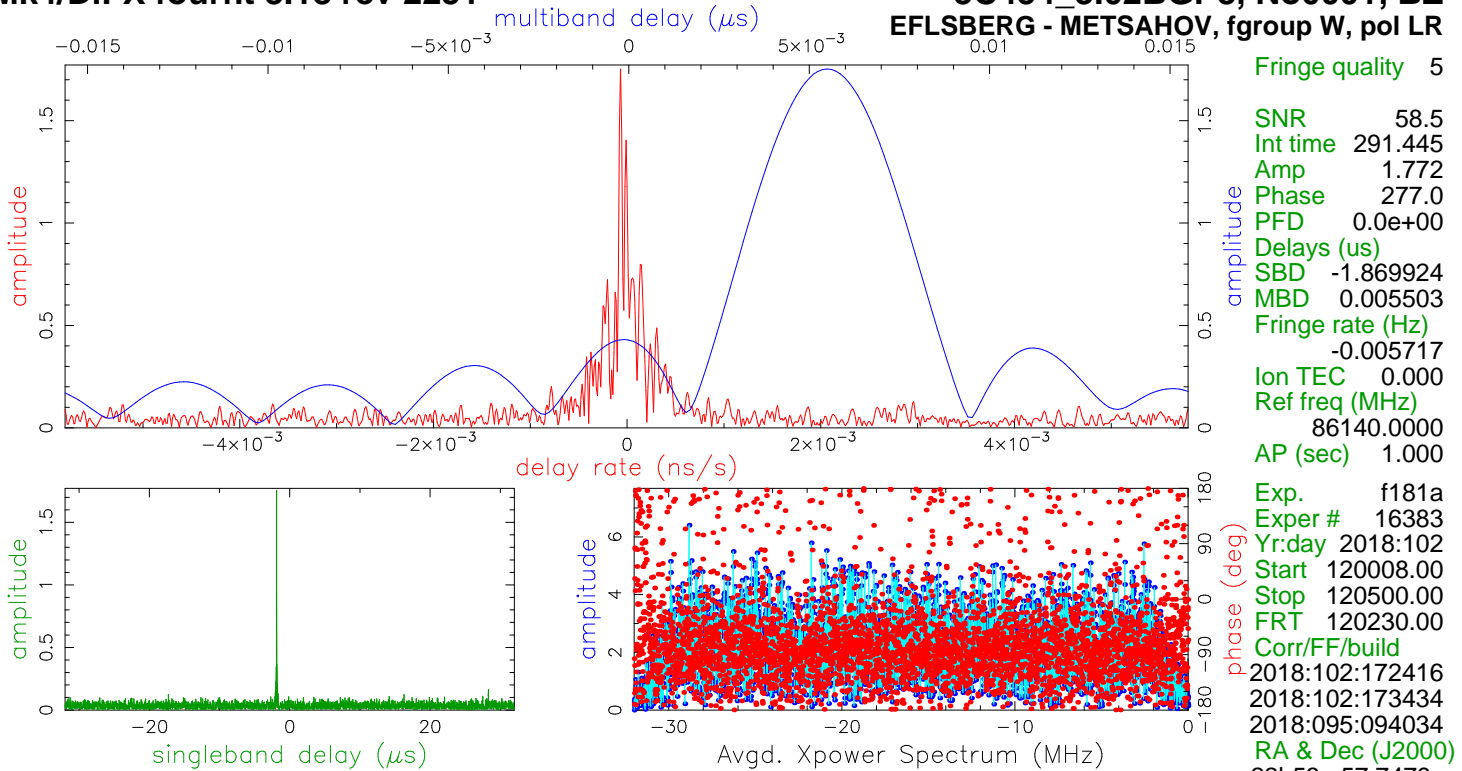
+16°08'53.561"



Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-165.0	-172.0	-159.4	-167.2	-172.6	-163.9	-165.3	-167.0	Phase	-166.5
4.8	4.9	4.9	4.8	4.9	5.1	5.1	5.2	Ampl.	4.9
3855.0	3855.5	3855.4	3855.5	3855.4	3855.4	3855.4	3855.4	Sbd box	3855.4
U/L 0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	APs used	
B -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC phase	
B:Z 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	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
B W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	3.96088880820E+03	Apriori delay (usec)	3.96277614983E+03	Resid mbdelay (usec)	-1.23416E-02	+/-	1.3E-05		
Sband delay (usec)	3.96088854133E+03	Apriori clock (usec)	2.6311983E+01	Resid sbdelay (usec)	-1.88761E+00	+/-	1.0E-04		
Phase delay (usec)	3.96277614446E+03	Apriori clockrate (us/s)	-1.0400000E-07	Resid phdelay (usec)	-5.36970E-06	+/-	2.2E-08		
Delay rate (us/s)	-9.78785305647E-03	Apriori rate (us/s)	-9.78778692212E-03	Resid rate (us/s)	-6.61343E-08	+/-	1.3E-10		
Total phase (deg)		30.2	Apriori accel (us/s/s)	-2.39691900478E-05	Resid phase (deg)	193.5	+/-	0.7	
	RMS	Theor.	Amplitude	4.998 +/- 0.030	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			
ph/seg (deg)	54.5	1.7	Search (1024X32)	4.833	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000	32.000	
amp/seg (%)	58.8	2.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	4.7	1.0	Inc. seg. avg.	7.411	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.006	0.006	
amp/frq (%)	2.7	1.7	Inc. frq. avg.	4.944	Data rate(Mb/s): 1024	nlags: 4096 t_cohere infinite	ion window (TEC)	0.00	0.00
B: az 241.8 el 41.0 pa 35.6	Z: az 252.8 el 28.1 pa 29.7	u,v (fr/asec)	36.344 -1367.366						simultaneous interpolator



Fringe quality 5

SNR 58.5

Int time 291.445

Amp 1.772

Phase 277.0

PFD 0.0e+00

Delays (us)

SBD -1.869924

MBD 0.005503

Fringe rate (Hz)

-0.005717

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 1.000

Exp. f181a

Exper # 16383

Yr:day 2018:102

Start 120008.00

Stop 120500.00

FRT 120230.00

Corr/FF/build

2018:102:172416

2018:102:173434

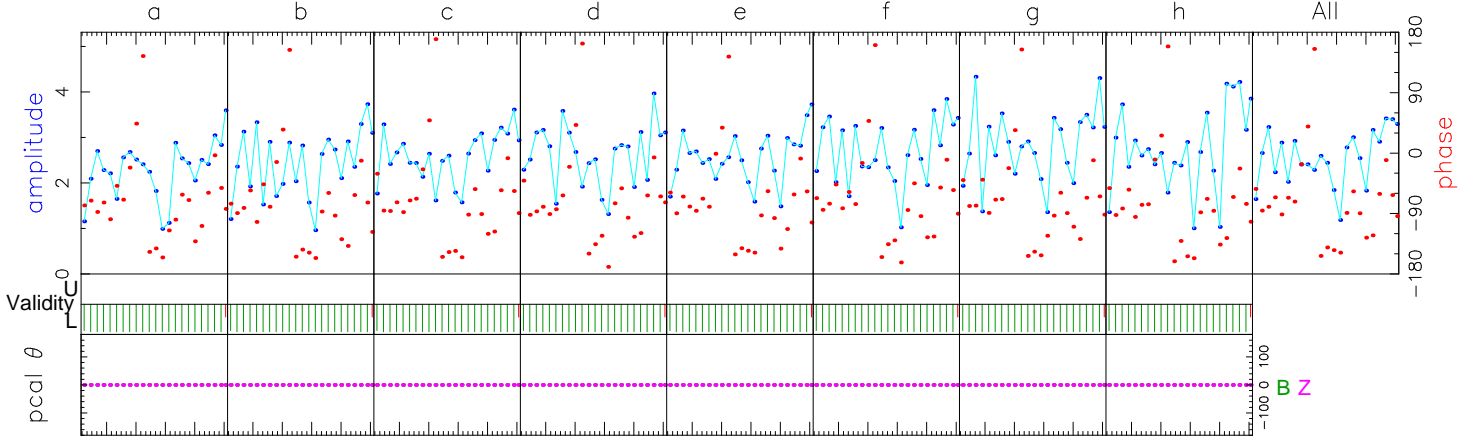
2018:095:094034

RA & Dec (J2000)

22h53m57.7479s

+16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-78.5	-90.2	-82.3	-79.6	-85.2	-80.3	-82.3	-85.2	Phase	-83.0
	1.5	1.6	1.8	1.8	1.7	1.8	2.0	1.9	Ampl.	1.8
	3857.4	3857.9	3857.8	3857.7	3857.5	3857.5	3857.6	3857.7	Sbd box	3857.6
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	APs used	
B	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	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	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(sbd)	3.96090665302E+03		Apriori delay (usec)		3.96277614983E+03		Resid mbdelay (usec)		5.50319E-03	+/- 3.7E-05
Sband delay (usec)	3.96090622583E+03		Apriori clock (usec)		2.6311983E+01		Resid sbdelay (usec)		-1.86992E+00	+/- 2.9E-04
Phase delay (usec)	3.96277614715E+03		Apriori clockrate (us/s)		-1.0400000E-07		Resid phdelay (usec)		-2.67527E-06	+/- 6.3E-08
Delay rate (us/s)	-9.78785329228E-03		Apriori rate (us/s)		-9.78778692212E-03		Resid rate (us/s)		-6.63702E-08	+/- 3.7E-10
Total phase (deg)	113.7		Apriori accel (us/s/s)		-2.39691900478E-05		Resid phase (deg)		277.0	+/- 2.0

ph/seg (deg) 52.8 4.7 Theor. Amplitude 1.772 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 54.9 8.2 Search (1024X32) 1.722 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000

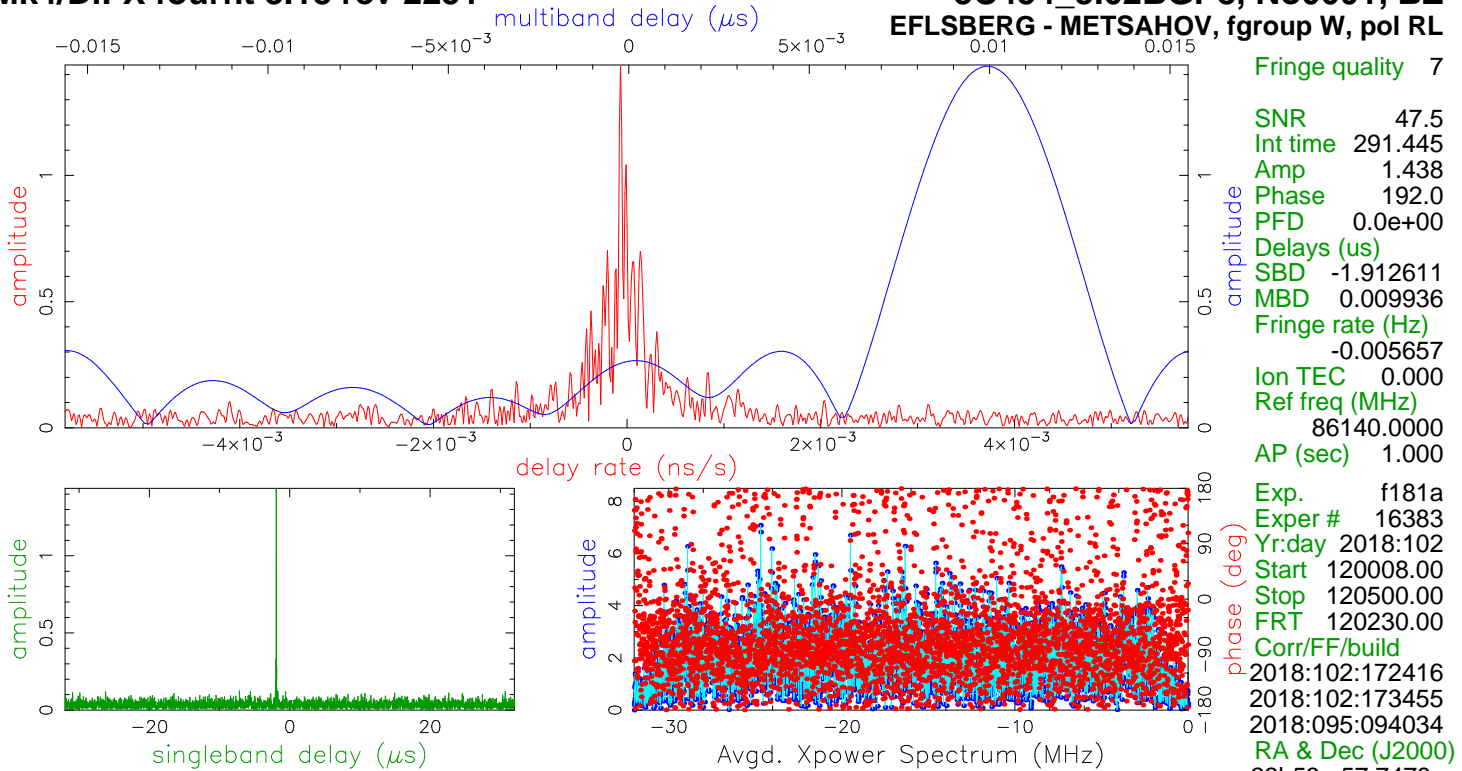
ph/frq (deg) 4.1 2.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 8.4 4.8 Inc. seg. avg. 2.549 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006

amp/frq (%) 8.4 4.8 Inc. frq. avg. 1.754 ion window (TEC) 0.00 0.00

B: az 241.8 el 41.0 pa 35.6 Z: az 252.8 el 28.1 pa 29.7 u,v (fr/asec) 36.344 -1367.366 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/BZ..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/BZ.W.15.02BGP8



Fringe quality 7

SNR 47.5

Int time 291.445

Amp 1.438

Phase 192.0

PFD 0.0e+00

Delays (us)

SBD -1.912611

MBD 0.009936

Fringe rate (Hz)

-0.005657

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 1.000

Exp. f181a

Exper # 16383

Yr:day 2018:102

Start 120008.00

Stop 120500.00

FRT 120230.00

Corr/FF/build

2018:102:172416

2018:102:173455

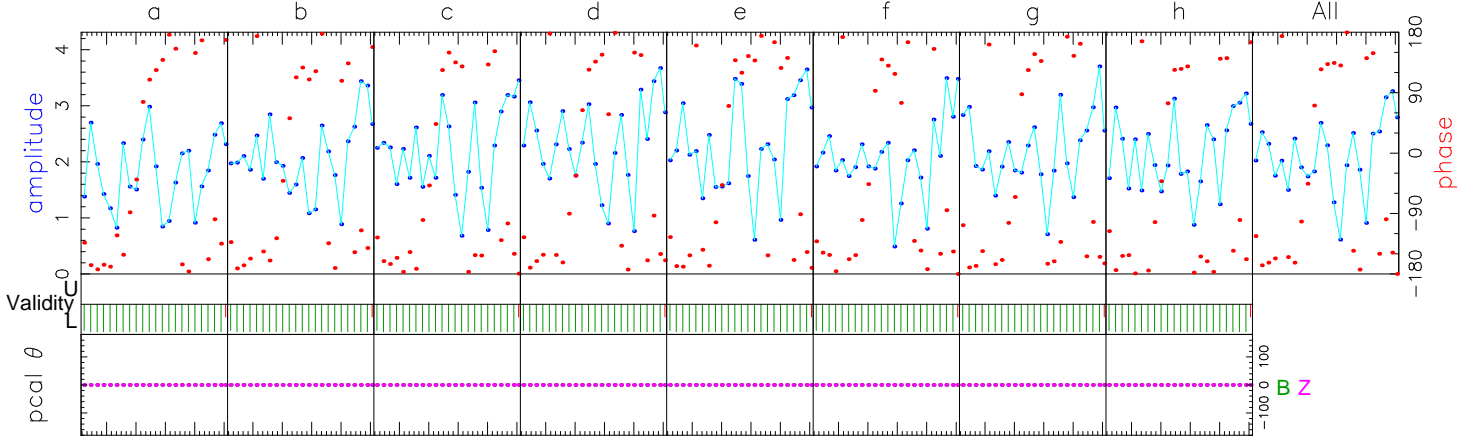
2018:095:094034

RA & Dec (J2000)

22h53m57.7479s

+16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-172.3	-168.0	-164.0	-165.8	-175.1	-161.9	-163.9	-173.2	Phase	-168.0
1.1	1.4	1.5	1.5	1.6	1.3	1.6	1.5	Ampl.	1.4
3851.9	3852.2	3852.2	3852.3	3852.3	3852.0	3852.3	3852.2	Sbd box	3852.2
U/L 0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	APs used	
B -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
B:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z 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	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
B W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	3.96084858558E+03		Apriori delay (usec)	3.96277614983E+03		Resid mbdelay (usec)	9.93575E-03	+/-	4.6E-05
Sband delay (usec)	3.96086353833E+03		Apriori clock (usec)	2.6311983E+01		Resid sbdelay (usec)	-1.91261E+00	+/-	3.6E-04
Phase delay (usec)	3.96277614441E+03		Apriori clockrate (us/s)	-1.0400000E-07		Resid phdelay (usec)	-5.41816E-06	+/-	7.8E-08
Delay rate (us/s)	-9.78785259138E-03		Apriori rate (us/s)	-9.78778692212E-03		Resid rate (us/s)	-6.56693E-08	+/-	4.6E-10
Total phase (deg)		28.7	Apriori accel (us/s/s)	-2.39691900478E-05		Resid phase (deg)	192.0	+/-	2.4

ph/seg (deg) 52.8 5.8 Theor. Amplitude 1.438 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

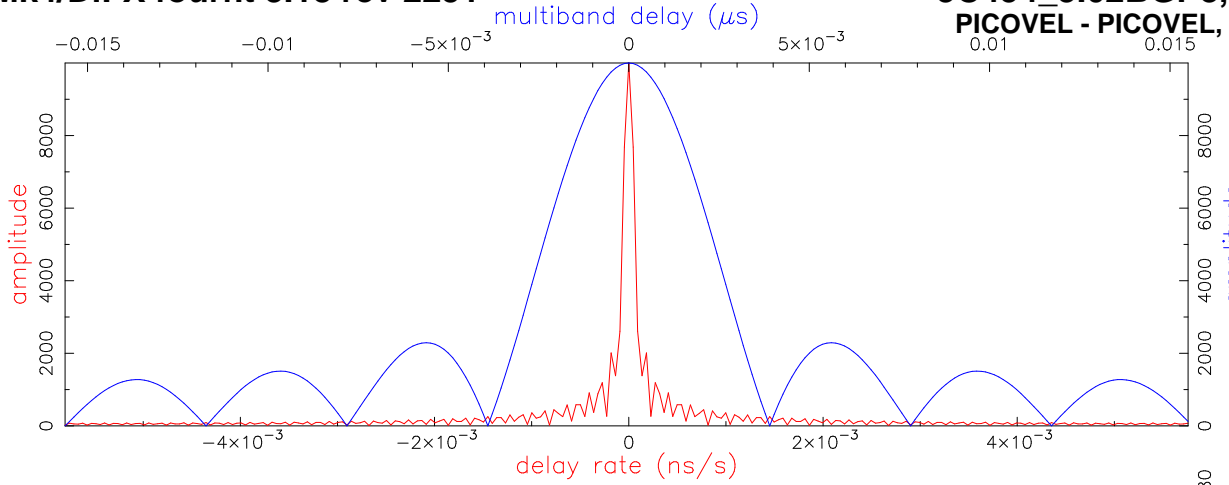
amp/seg (%) 63.2 10.1 Search (1024X32) 1.415 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000

ph/frq (deg) 5.3 3.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

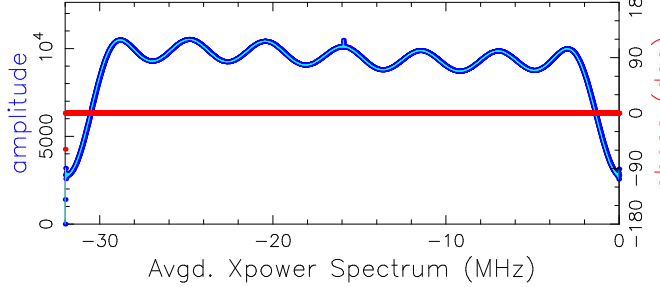
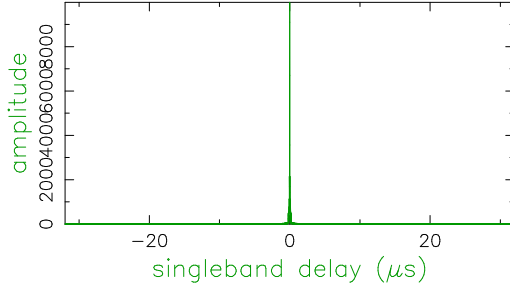
amp/frq (%) 9.7 6.0 Inc. seg. avg. 2.078 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006

B: az 241.8 el 41.0 pa 35.6 Z: az 252.8 el 28.1 pa 29.7 u,v (fr/asec) 36.344 -1367.366 simultaneous interpolator

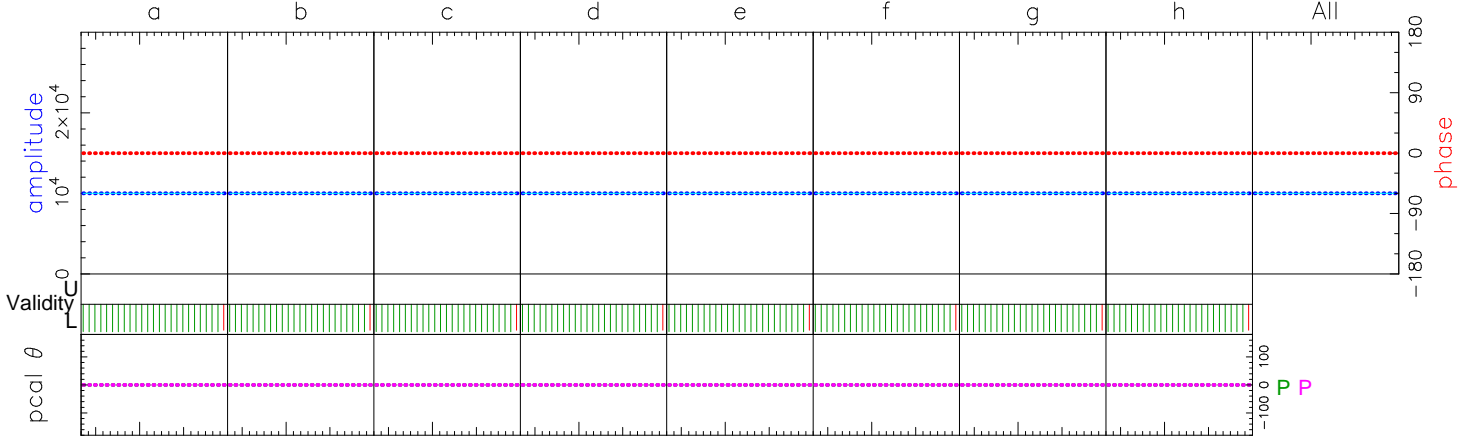
Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/BZ..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/BZ.W.16.02BGP8



Fringe quality 9
 SNR 192935.2
 Int time 99.554
 Amp 9999.996
 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) 1.000
 Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120320.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:174456
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

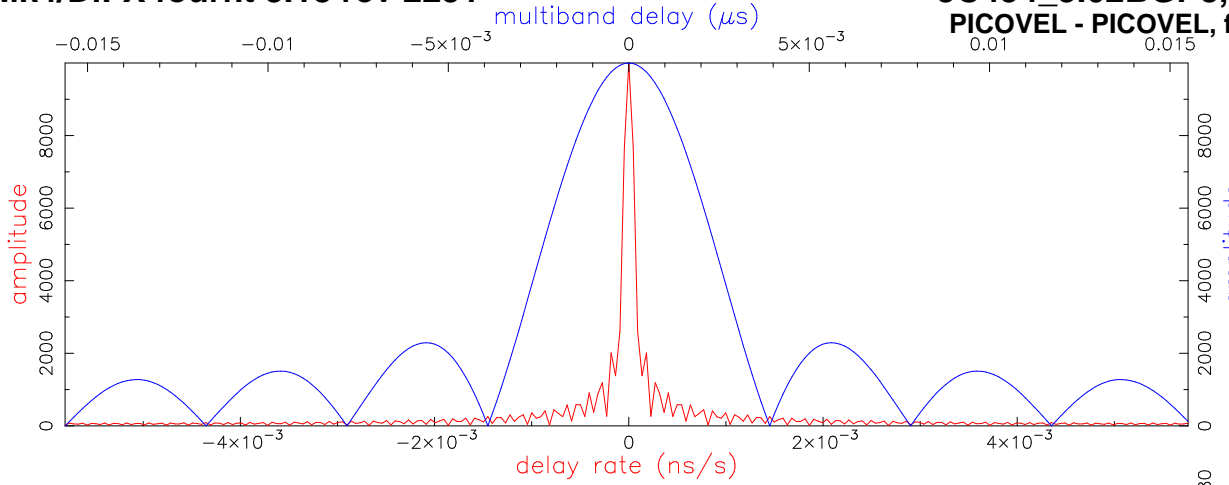


Amp. and Phase vs. time for each freq., 25 segs, 4 APs / seg (4.00 sec / seg.), time ticks 5 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	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
4097.0	4097.0	4097.0	4097.0	4097.0	4097.0	4097.0	4097.0	Sbd box	4097.0
U/L 0/100	0/100	0/100	0/100	0/100	0/100	0/100	0/100	APs used	
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
P 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P 1000	1000	1000	1000	1000	1000	1000	1000		
P W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
P W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	1.1E-08		
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	8.9E-08		
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.9E-11		
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.3E-13		
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 0.0 Theor. Amplitude 9999.996 +/- 0.052 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (256X32) 9999.996 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 dr window (ns/s) -0.006 0.006
 amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.996 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite ion window (TEC) 0.00 0.00
 P: az 244.0 el 53.8 pa 48.5 P: az 244.0 el 53.8 pa 48.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/PP..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/PP.W.57.02BGP8



Fringe quality 9

SNR 192935.2

Int time 99.554

Amp 9999.996

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) 1.000

Exp. f181a

Exper # 16383

Yr:day 2018:102

Start 120320.00

Stop 120500.00

FRT 120230.00

Corr/FF/build

2018:102:172416

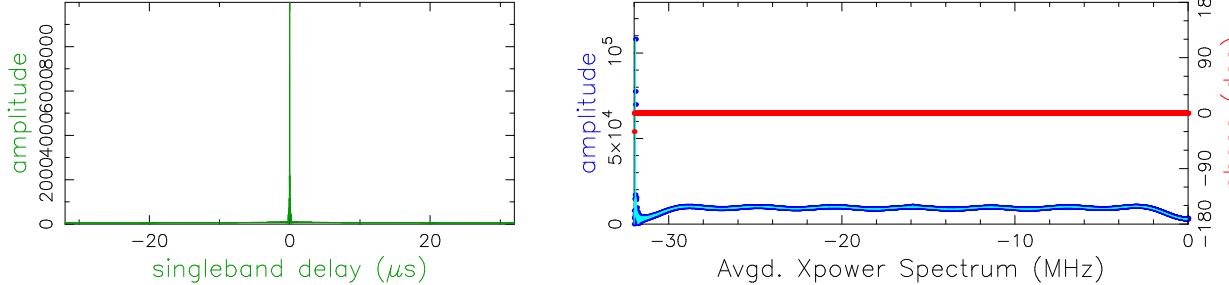
2018:102:174501

2018:095:094034

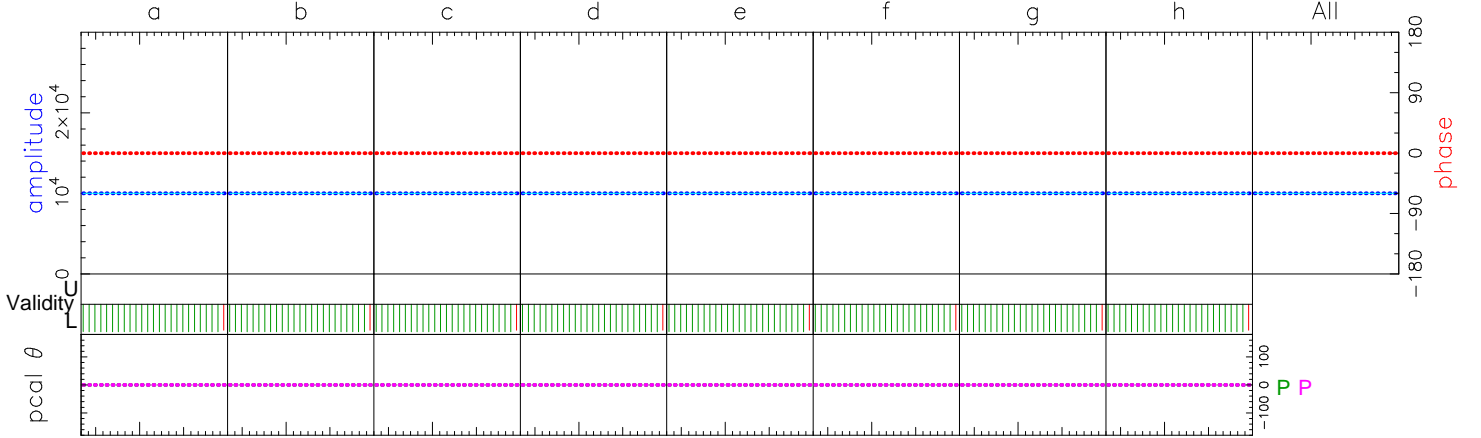
RA & Dec (J2000)

22h53m57.7479s

+16°08'53.561"



Amp. and Phase vs. time for each freq., 25 segs, 4 APs / seg (4.00 sec / seg.), time ticks 5 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	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
4097.0	4097.0	4097.0	4097.0	4097.0	4097.0	4097.0	4097.0	Sbd box	4097.0
U/L 0/100	0/100	0/100	0/100	0/100	0/100	0/100	0/100	APs used	
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
P 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P 1000	1000	1000	1000	1000	1000	1000	1000		
P W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	1.1E-08		
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	8.9E-08		
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.9E-11		
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	3.3E-13		
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 0.0 Theor. Amplitude 9999.996 +/- 0.052 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 0.0 0.0 Search (256X32) 9999.996 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000

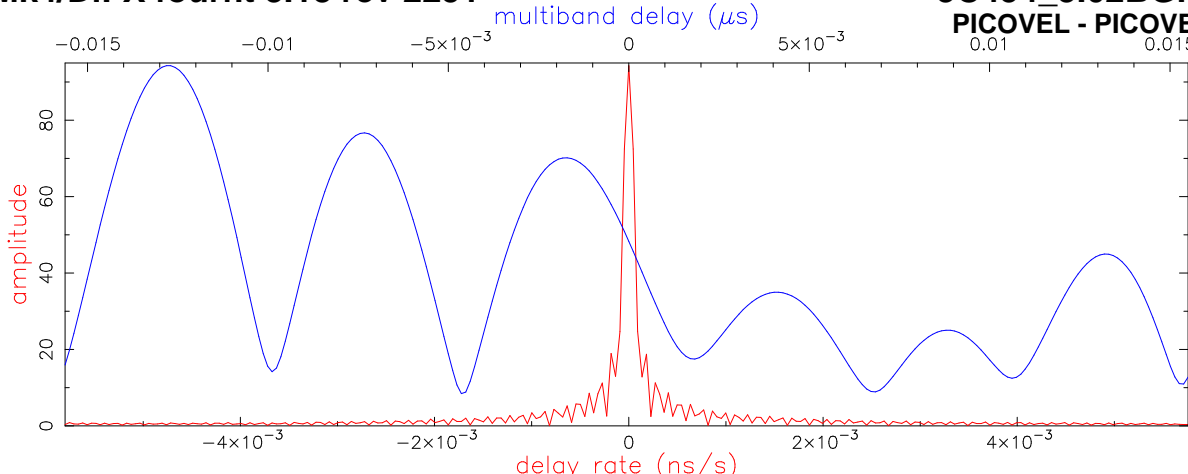
ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 dr window (ns/s) -0.006 0.006

amp/frq (%) 0.0 0.0 Inc. frq. avg. 9999.996 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite ion window (TEC) 0.00 0.00

P: az 244.0 el 53.8 pa 48.5 P: az 244.0 el 53.8 pa 48.5 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

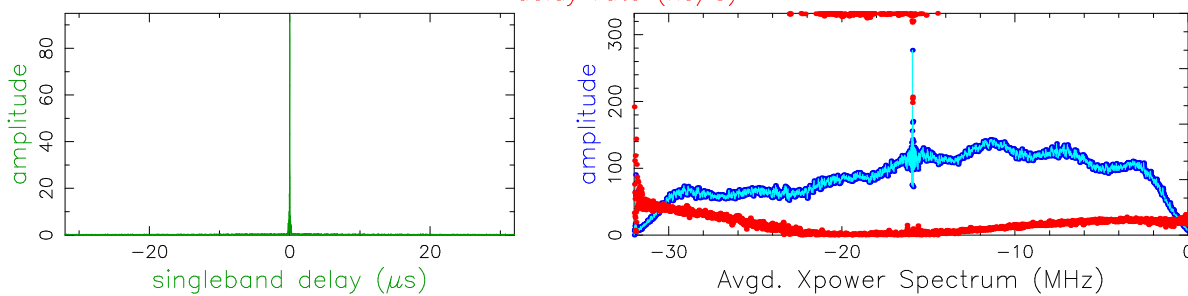
Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/PP..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/PP.W.58.02BGP8



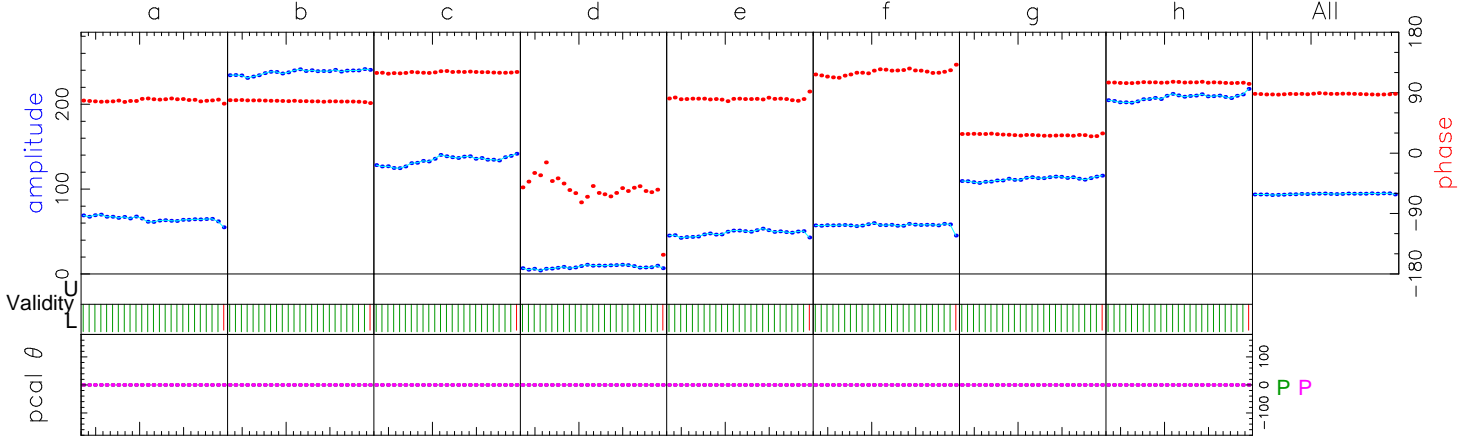
Fringe quality 5

SNR 1832.6
Int time 99.554
Amp 94.986
Phase -92.1
PFD 0.0e+00
Delays (us)
SBD 0.005354
MBD -0.012809
Fringe rate (Hz) 0.000077
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 1.000

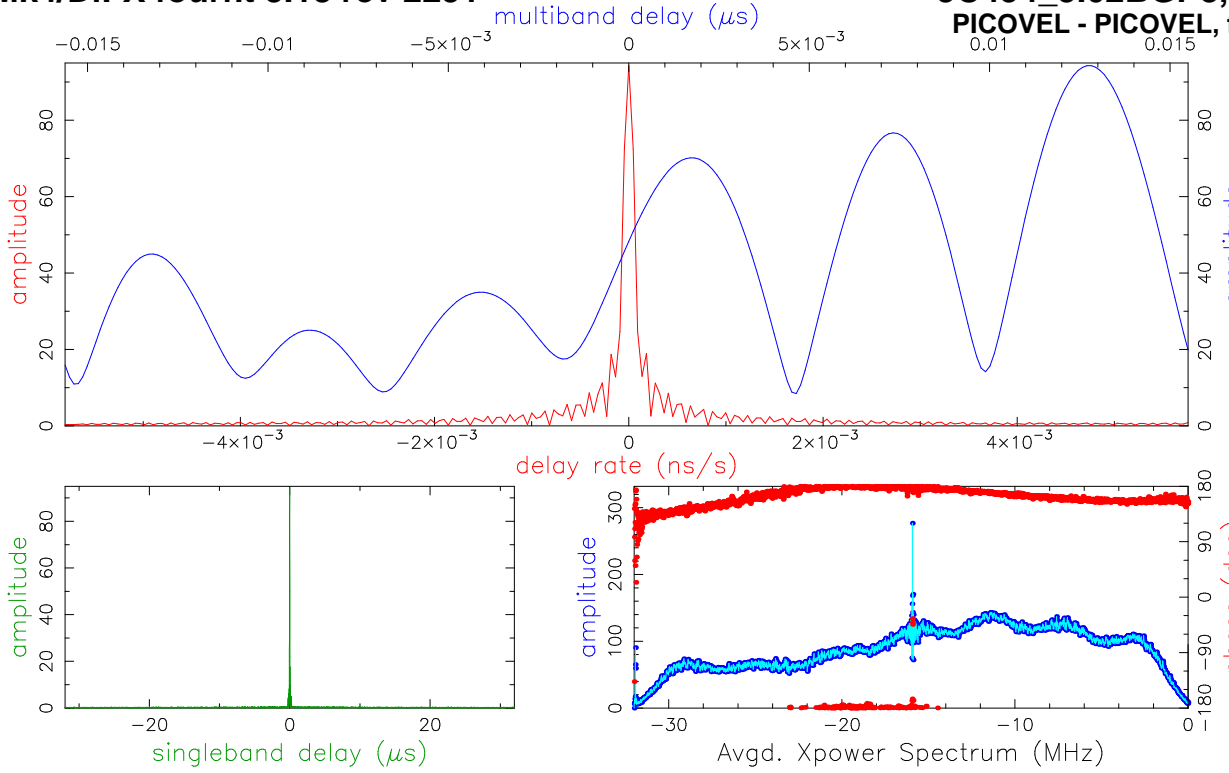
Exp. f181a
Exper # 16383
Yr:day 2018:102
Start 120320.00
Stop 120500.00
FRT 120230.00
Corr/FF/build
2018:102:172416
2018:102:174507
2018:095:094034
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"



Amp. and Phase vs. time for each freq., 25 segs, 4 APs / seg (4.00 sec / seg.), time ticks 5 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/100	0/100	0/100	0/100	0/100	0/100	0/100	0/100		
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
P	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)	1.844056250000E-02									
Sband delay (usec)	5.353500000000E-03									
Phase delay (usec)	2.83518843932E-06									
Delay rate (us/s)	8.96795913629E-10									
Total phase (deg)			-92.1							
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
Bits/sample:	2x2									
Sample rate(MSamp/s):	64									
Data rate(Mb/s):	1024									
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
PCal period (AP's)	5									
sb window (us)	-32.000	32.000								
mb window (us)	-0.016	0.016								
dr window (ns/s)	-0.006	0.006								
ion window (TEC)	0.00	0.00								
simultaneous interpolator										

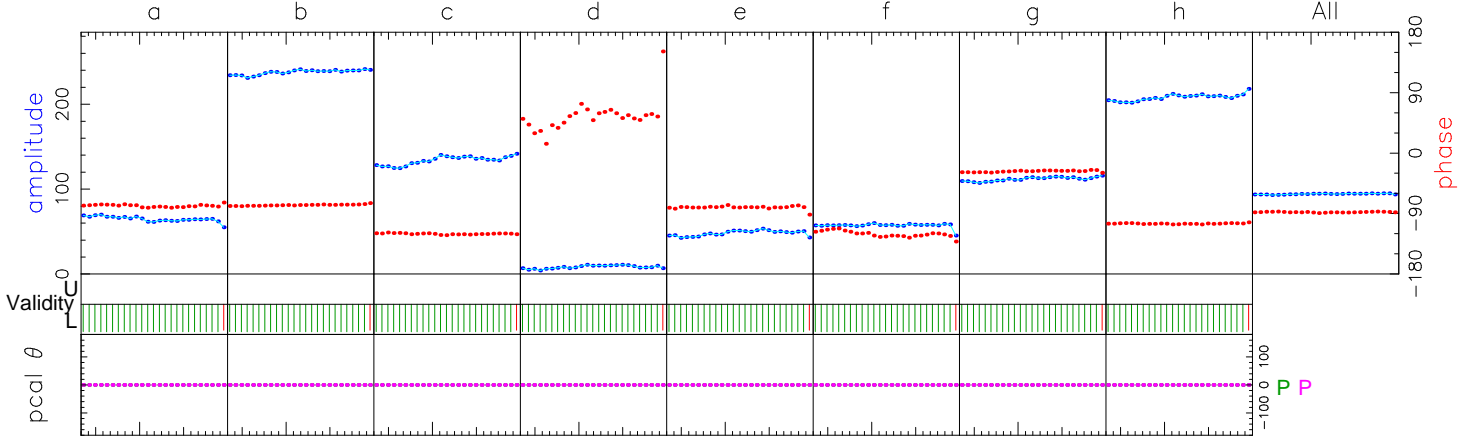


Fringe quality 5

SNR 1832.6
 Int time 99.554
 Amp 94.986
 Phase 92.1
 PFD 0.0e+00
 Delays (us)
 SBD -0.005354
 MBD 0.012809
 Fringe rate (Hz)
 -0.000077
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.000

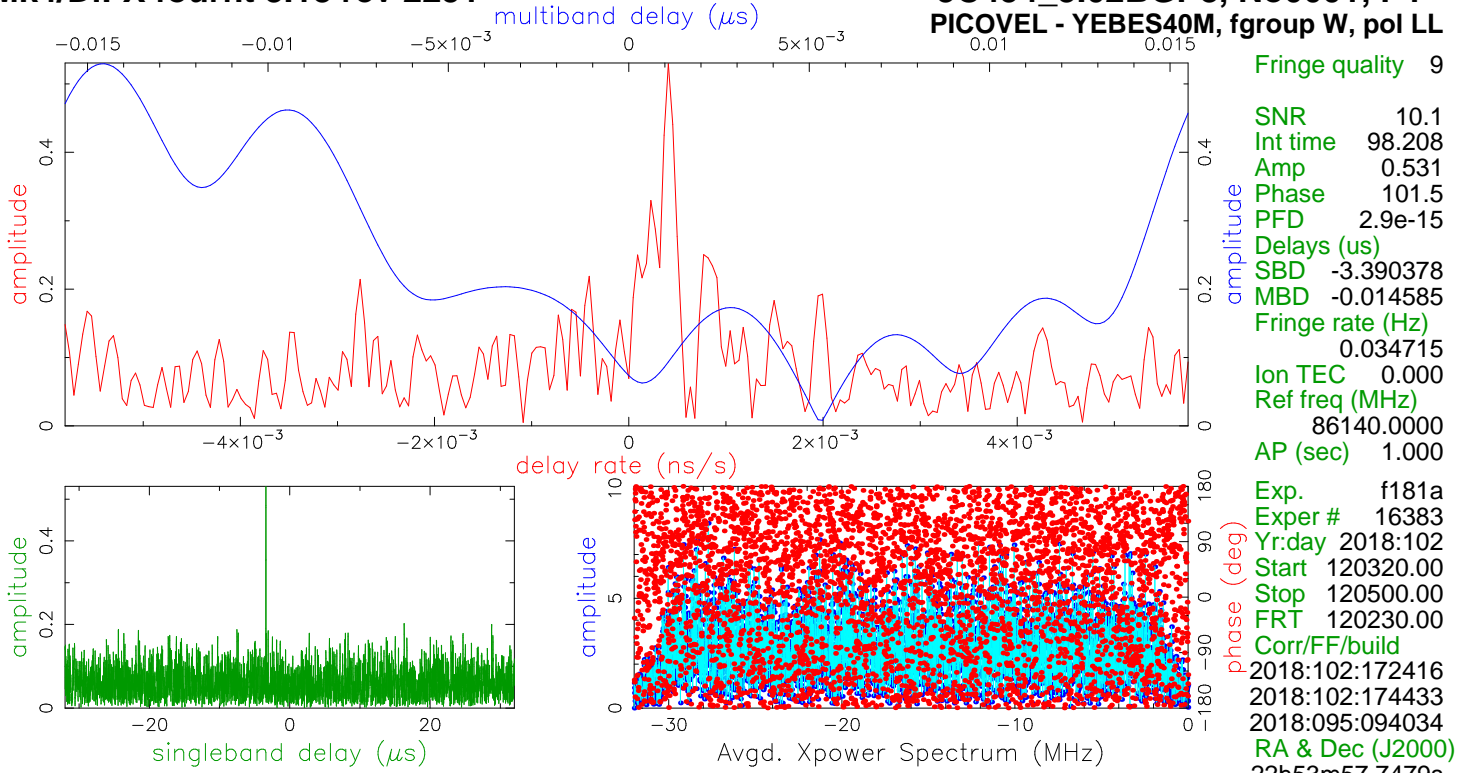
Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120320.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:174512
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 25 segs, 4 APs / seg (4.00 sec / seg.), time ticks 5 sec

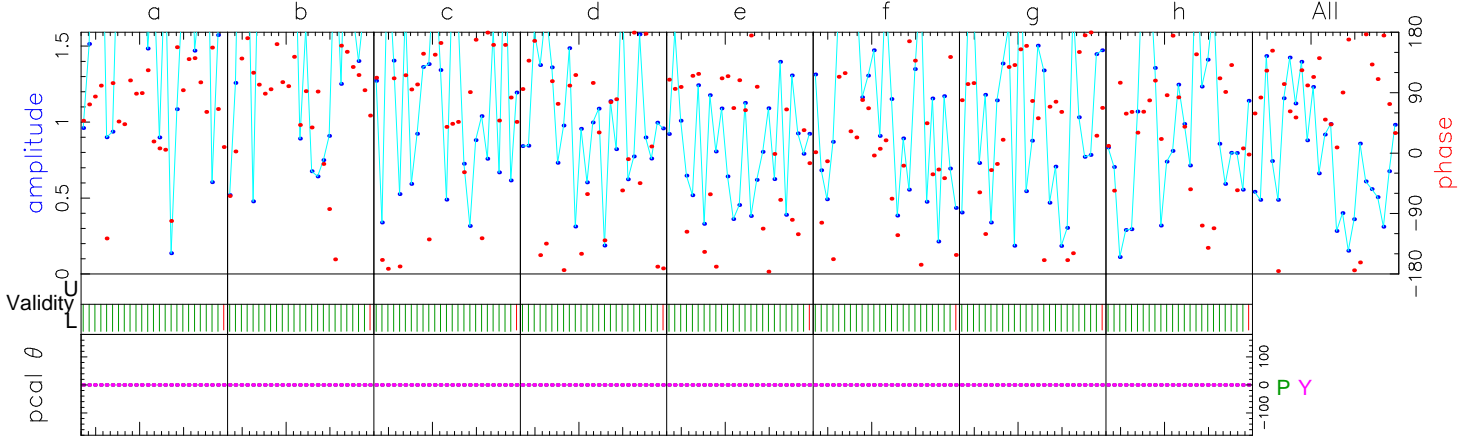


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/100	0/100	0/100	0/100	0/100	0/100	0/100	0/100		
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
P:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
P	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Group delay (usec)(sbd)		-1.84405625000E-02		Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	1.28094E-02	+/-	1.2E-06	
Sband delay (usec)		-5.35350000000E-03		Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-5.35350E-03	+/-	9.4E-06	
Phase delay (usec)		-2.83518843917E-06		Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-2.83519E-06	+/-	2.0E-09	
Delay rate (us/s)		-8.96795913629E-10		Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-8.96796E-10	+/-	3.5E-11	
Total phase (deg)			92.1	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	92.1	+/-	0.1	

ph/seg (deg) 0.6 0.2 Theor. Amplitude 94.986 +/- 0.052 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.9 0.3 Search (256X32) 94.249 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 66.7 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 80.8 0.2 Inc. seg. avg. 94.287 Sample rate(MSamp/s): 64 dr window (ns/s) -0.006 0.006
 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite ion window (TEC) 0.00 0.00

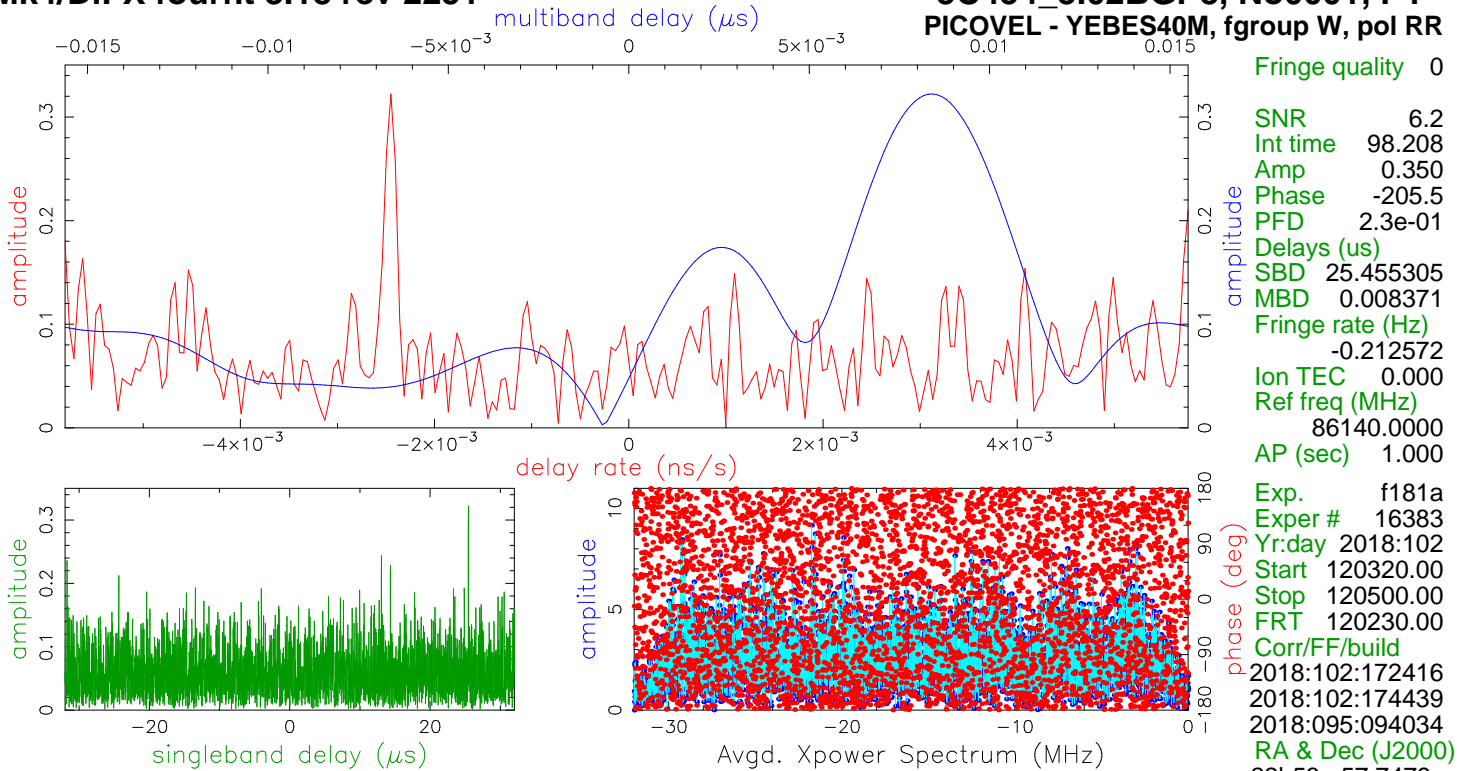


Amp. and Phase vs. time for each freq., 25 segs, 4 APs / seg (4.00 sec / seg.), time ticks 5 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
78.4	116.1	133.8	153.8	121.9	35.0	114.1	76.9	Phase	101.5
1.5	1.3	0.6	0.3	0.2	0.3	0.4	0.3	Ampl.	0.6
3663.2	3663.6	3662.4	3721.7	7547.3	6858.3	3670.7	6934.0	Sbd box	3663.0
U/L 0/100	0/100	0/100	0/100	0/100	0/100	0/100	0/100	APs used	
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:Y 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	PC amp	
Y 1000	1000	1000	1000	1000	1000	1000	1000		
P W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Y W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	4.01164654256E+02		Apriori delay (usec)	4.04554238929E+02		Resid mbdelay (usec)	-1.45847E-02	+/-	2.1E-04
Sband delay (usec)	4.01163860929E+02		Apriori clock (usec)	-5.6580720E+00		Resid sbdelay (usec)	-3.39038E+00	+/-	1.7E-03
Phase delay (usec)	4.04554242202E+02		Apriori clockrate (us/s)	-4.7999999E-07		Resid phdelay (usec)	3.27378E-06	+/-	3.6E-07
Delay rate (us/s)	-2.67513298972E-02		Apriori rate (us/s)	-2.67517329039E-02		Resid rate (us/s)	4.03007E-07	+/-	6.3E-09
Total phase (deg)		152.4	Apriori accel (us/s/s)	-3.66004297607E-06		Resid phase (deg)	101.5	+/-	11.3

ph/seg (deg)	53.6	Theor.	Amplitude	0.531 +/- 0.052	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	sb window (us)	-32.000	32.000
amp/seg (%)	82.7	49.3	Search (256X32)	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)			mb window (us)	-0.016	0.016
ph/frq (deg)	41.1	16.0	Interp.	0.685	Bits/sample: 2x2	SampCntNorm: enabled		dr window (ns/s)	-0.006	0.006
amp/frq (%)	90.0	27.9	Inc. seg. avg.	0.584	Sample rate(MSamp/s): 64			ion window (TEC)	0.00	0.00
			Inc. frq. avg.		Data rate(Mb/s): 1024	nlags: 4096	t_cohere infinite			



Fringe quality 0

SNR 6.2

Int time 98.208

Amp 0.350

Phase -205.5

PFD 2.3e-01

Delays (us)

SBD 25.455305

MBD 0.008371

Fringe rate (Hz)

-0.212572

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 1.000

Exp. f181a

Exper # 16383

Yr:day 2018:102

Start 120320.00

Stop 120500.00

FRT 120230.00

Corr/FF/build

2018:102:172416

2018:102:174439

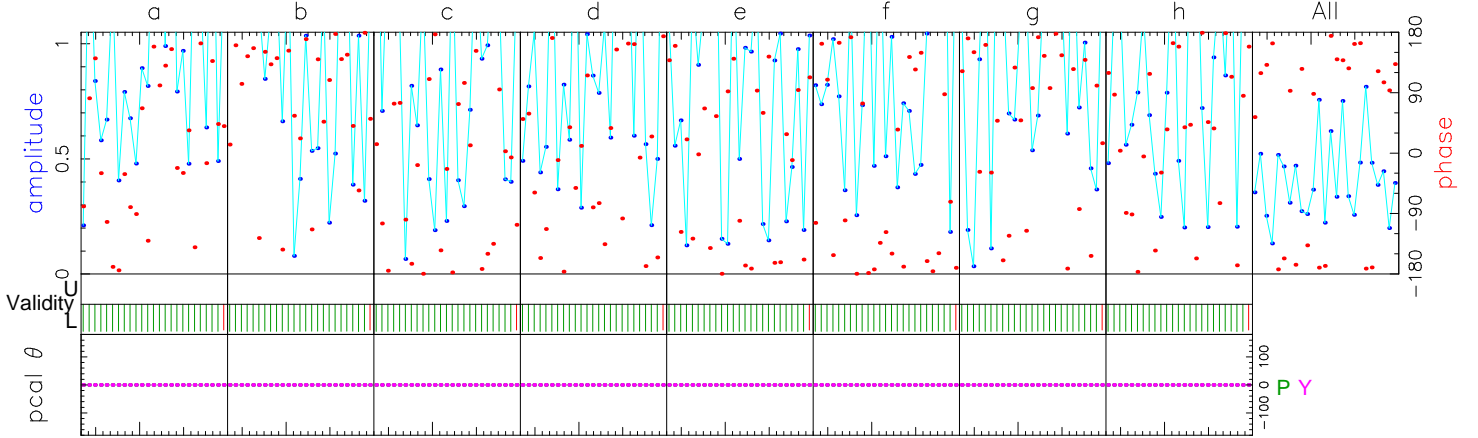
2018:095:094034

RA & Dec (J2000)

22h53m57.7479s

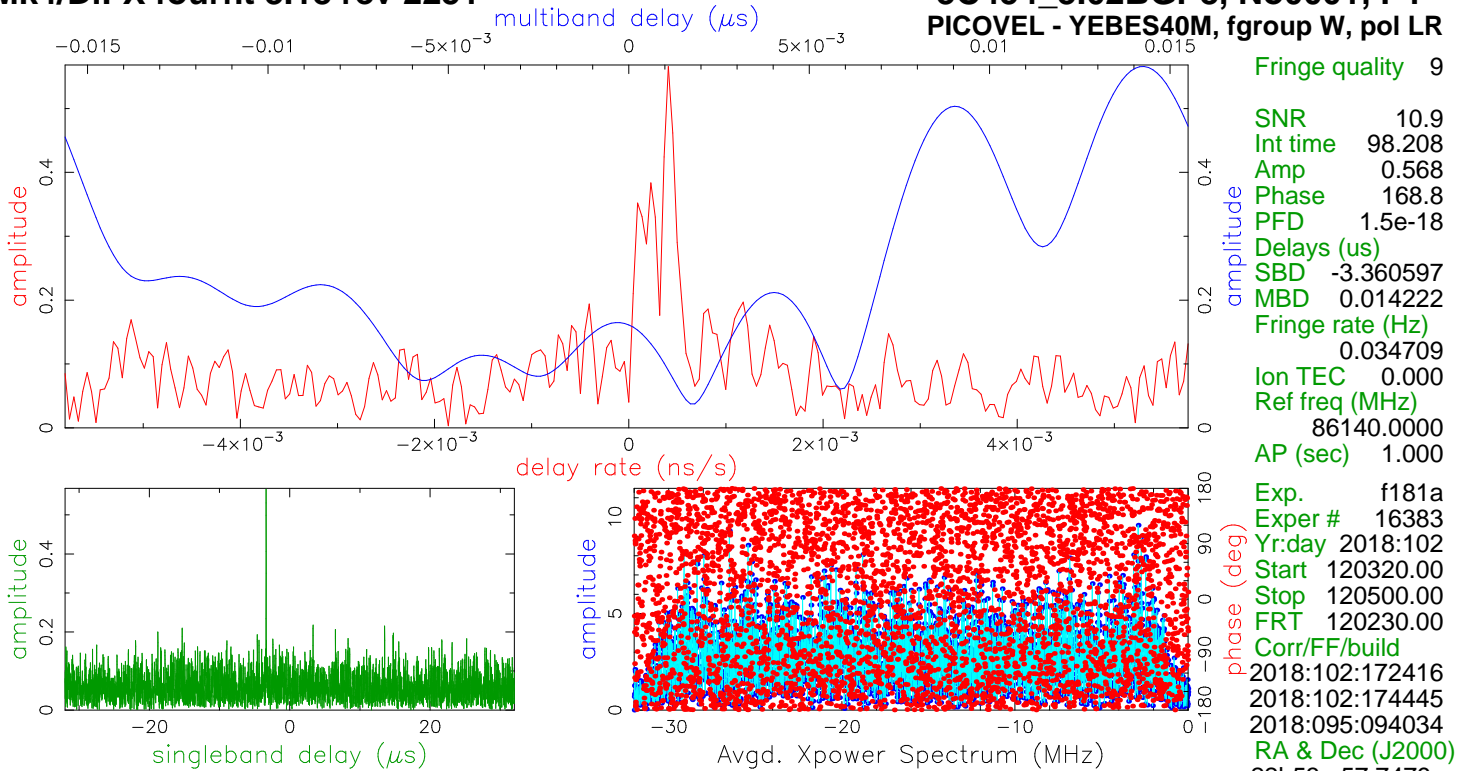
+16°08'53.561"

Amp. and Phase vs. time for each freq., 25 segs, 4 APs / seg (4.00 sec / seg.), time ticks 5 sec

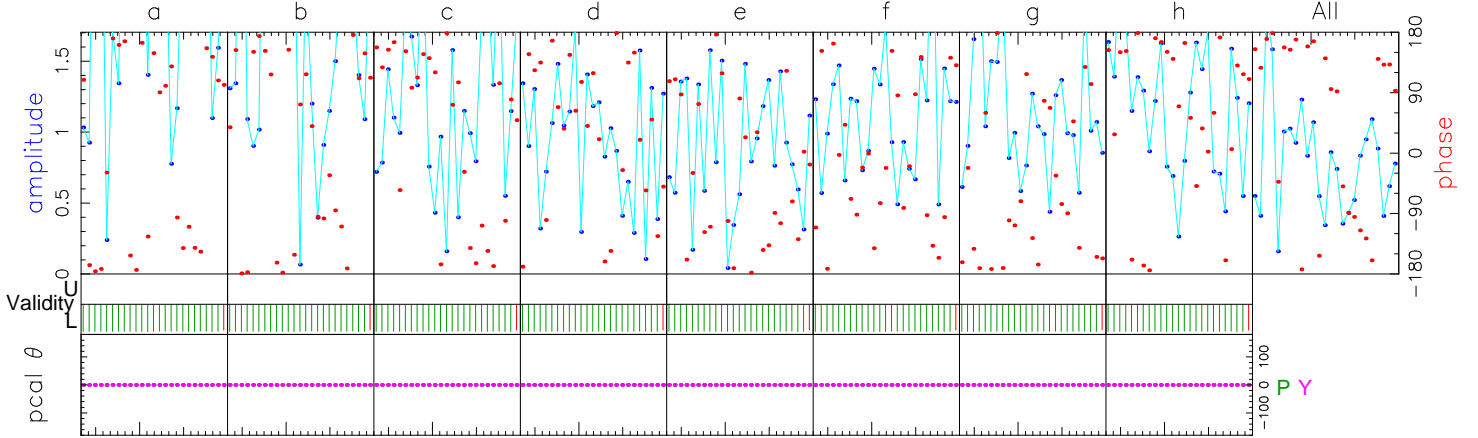


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	86412.00	86444.00	86476.00	86508.00	86540.00	86572.00	86604.00	86636.00	86668.00	86700.00	86732.00	86764.00	86796.00	86828.00	86860.00	86892.00	86924.00	86956.00	86988.00	87020.00	87052.00	87084.00	87116.00	87148.00	87180.00	87212.00	87244.00	87276.00	87308.00	87340.00	87372.00	87404.00	87436.00	87468.00	87500.00	87532.00	87564.00	87596.00	87628.00	87660.00	87692.00	87724.00	87756.00	87788.00	87820.00	87852.00	87884.00	87916.00	87948.00	87980.00	87996.00	88012.00	88028.00	88044.00	88060.00	88076.00	88092.00	88108.00	88124.00	88140.00	88156.00	88172.00	88188.00	88204.00	88220.00	88236.00	88252.00	88268.00	88284.00	88300.00	88316.00	88332.00	88348.00	88364.00	88380.00	88396.00	88412.00	88428.00	88444.00	88460.00	88476.00	88492.00	88508.00	88524.00	88540.00	88556.00	88572.00	88588.00	88604.00	88620.00	88636.00	88652.00	88668.00	88684.00	88700.00	88716.00	88732.00	88748.00	88764.00	88780.00	88796.00	88812.00	88828.00	88844.00	88860.00	88876.00	88892.00	88908.00	88924.00	88940.00	88956.00	88972.00	88988.00	89004.00	89020.00	89036.00	89052.00	89068.00	89084.00	89100.00	89116.00	89132.00	89148.00	89164.00	89180.00	89196.00	89212.00	89228.00	89244.00	89260.00	89276.00	89292.00	89308.00	89324.00	89340.00	89356.00	89372.00	89388.00	89404.00	89420.00	89436.00	89452.00	89468.00	89484.00	89500.00	89516.00	89532.00	89548.00	89564.00	89580.00	89596.00	89612.00	89628.00	89644.00	89660.00	89676.00	89692.00	89708.00	89724.00	89740.00	89756.00	89772.00	89788.00	89804.00	89820.00	89836.00	89852.00	89868.00	89884.00	89900.00	89916.00	89932.00	89948.00	89964.00	89980.00	89996.00	90012.00	90028.00	90044.00	90060.00	90076.00	90092.00	90108.00	90124.00	90140.00	90156.00	90172.00	90188.00	90204.00	90220.00	90236.00	90252.00	90268.00	90284.00	90300.00	90316.00	90332.00	90348.00	90364.00	90380.00	90396.00	90412.00	90428.00	90444.00	90460.00	90476.00	90492.00	90508.00	90524.00	90540.00	90556.00	90572.00	90588.00	90604.00	90620.00	90636.00	90652.00	90668.00	90684.00	90700.00	90716.00	90732.00	90748.00	90764.00	90780.00	90796.00	90812.00	90828.00	90844.00	90860.00	90876.00	90892.00	90908.00	90924.00	90940.00	90956.00	90972.00	90988.00	91004.00	91020.00	91036.00	91052.00	91068.00	91084.00	91100.00	91116.00	91132.00	91148.00	91164.00	91180.00	91196.00	91212.00	91228.00	91244.00	91260.00	91276.00	91292.00	91308.00	91324.00	91340.00	91356.00	91372.00	91388.00	91404.00	91420.00	91436.00	91452.00	91468.00	91484.00	91500.00	91516.00	91532.00	91548.00	91564.00	91580.00	91596.00	91612.00	91628.00	91644.00	91660.00	91676.00	91692.00	91708.00	91724.00	91740.00	91756.00	91772.00	91788.00	91804.00	91820.00	91836.00	91852.00	91868.00	91884.00	91900.00	91916.00	91932.00	91948.00	91964.00	91980.00	91996.00	92012.00	92028.00	92044.00	92060.00	92076.00	92092.00	92108.00	92124.00	92140.00	92156.00	92172.00	92188.00	92204.00	92220.00	92236.00	92252.00	92268.00	92284.00	92300.00	92316.00	92332.00	92348.00	92364.00	92380.00	92396.00	92412.00	92428.00	92444.00	92460.00	92476.00	92492.00	92508.00	92524.00	92540.00	92556.00	92572.00	92588.00	92604.00	92620.00	92636.00	92652.00	92668.00	92684.00	92700.00	92716.00	92732.00	92748.00	92764.00	92780.00	92796.00	92812.00	92828.00	92844.00	92860.00	92876.00	92892.00	92908.00	92924.00	92940.00	92956.00	92972.00	92988.00	93004.00	93020.00	93036.00	93052.00	93068.00	93084.00	93100.00	93116.00	93132.00	93148.00	93164.00	93180.00	93196.00	93212.00	93228.00	93244.00	93260.00	93276.00	93292.00	93308.00	93324.00	93340.00	93356.00	93372.00	93388.00	93404.00	93420.00	93436.00	93452.00	93468.00	93484.00	93500.00	93516.00	93532.00	93548.00	93564.00	93580.00	93596.00	93612.00	93628.00	93644.00	93660.00	93676.00	93692.00	93708.00	93724.00	93740.00	93756.00	93772.00	93788.00	93804.00	93820.00	93836.00	93852.00	93868.00	93884.00	93900.00	93916.00	93932.00	93948.00	93964.00	93980.00	93996.00	94012.00	94028.00	94044.00	94060.00	94076.00	94092.00	94108.00	94124.00	94140.00	94156.00	94172.00	94188.00	94204.00	94220.00	94236.00	94252.00	94268.00	94284.00	94300.00	94316.00	94332.00	94348.00	94364.00	94380.00	94396.00	94412.00	94428.00	94444.00	94460.00	94476.00	94492.00	94508.00	94524.00	94540.00	94556.00	94572.00	94588.00	94604.00	94620.00	94636.00	94652.00	94668.00	94684.00	94700.00	94716.00	94732.00	94748.00	94764.00	94780.00	94796.00	94812.00	94828.00	94844.00	94860.00	94876.00	94892.00	94908.00	94924.00	94940.00	94956.00	94972.00	94988.00	95004.00	95020.00	95036.00	95052.00	95068.00	95084.00	95100.00	95116.00	95132.00	95148.00	95164.00	95180.00	95196.00	95212.00	95228.00	95244.00	95260.00	95276.00	95292.00	95308.00	95324.00	95340.00	95356.00	95372.00	95388.00	95404.00	95420.00	95436.00	95452.00	95468.00	95484.00	95500.00	95516.00	95532.00	95548.00	95564.00	95580.00	95596.00	95612.00	95628.00	95644.00	95660.00	95676.00	95692.00	95708.00	95724.00	95740.00	95756.00	95772.00	95788.00	95804.00	95820.00	95836.00	95852.00	95868.00	95884.00	95900.00	95916.00	95932.00	95948.00	95964.00	95980.00	95996.00	96012.00	96028.00	96044.00	96060.00	96076.00	96092.00	96108.00	96124.00	96140.00	96156.00	96172.00	96188.00	96204.00	96220.00	96236.00	96252.00	96268.00	96284.00	96300.00	96316.00	96332.00	96348.00	96364.00	96380.00	96396.00	96412.00	96428.00	96444.00	96460.00	96476.00	96492.00	96508.00	96524.00	96540.00	96556.00	96572.00	96588.00	96604.00	96620.00	96636.00	96652.00	96668.00	96684.00	96700.00	96716.00	96732.00	96748.00	96764.00	96780.00	96796.00	96812.00	96828.00	96844.00	96860.00	96876.00	96892.00	96908.00	96924.00	96940.00	96956.00	96972.00	96988.00	97004.00	97020.00	97036.00	97052.00	97068.00	97084.00	97100.00	97116.00	97132.00	97148.00	97164.00	97180.00	97196.00	97212.00	97228.00	97244.00	97260.00	97276.00	97292.00	97308.00	97324.00	97340.00	97356.00	97372.00	97388.00	97404.00	97420.00	97436.00	97452.00	97468.00	97484.00	97500.00	97516.00	97532.00	97548.00	97564.00	97580.00	97596.00	97612.00	97628.00	97644.00	97660.00	97676.00	97692.00	97708.00	97724.00	97740.00	97756.00	97772.00	97788.00	97804.00	97820.00	97836.00	97852.00	97868.00	97884.00	97900.00	97916.00	97932.00	97948.00	97964.00	97980.00	97996.00	98012.00	98028.00	98044.00	98060.00	98076.00	98092.00	98108.00	98124.00	98140.00	98156.00	98172.00	98188.00	98204.00	98220.00	98236.00	98252.00	98268.00	98284.00	98300.00	98316.00	98332.00	98348.00	98364.00	98380.00	98396.00	98412.00	98428.00	98444.00	98460.00	98476.00	98492.00	98508.00	98524.00	98540.00	98556.00	98572.00	98588.00	98604.00	98620.00	98636.00	98652.00	98668.00	98684.00	98700.00	98716.00	98732.00	98748.00	98764.00	98780.00	98796.00	98812.00	98828.00	98844.00	98860.00	98876.00	98892.00	98908.00	98924.00	98940.00	98956.00	98972.00	98988.00	99004.00	99020.00	99036.00	99052.00	99068.00	99084.00	99100.00	99116.00	99132.00	99148.00	99164.00	99180.00	99196.00	99212.00	99228.00	99244.00	99260.00	99276.00	99292.00	99308.00	99324.00	99340.00	99356.00	99372.00	99388.00	99404.00	99420.00	99436.00	99452.00	99468.00	99484.00	99500.00	99516.00	99532.00	99548.00	99564.00	99580.00	99596.00	99612.00	99628.00	99644.00	99660.00	99676.00	99692.00	99708.00	99724.00	99740.00	99756.00	99772.00	99788.00	99804.00	99820.00	99836.00	99852.00	99868.00	99884.00	99900.00	99916.00	99932.00	99948.00	99964.00	99980.00	99996.00
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Group delay (usec)(sbd) 4.30000109467E+02 Apriori delay (usec) 4.0455423

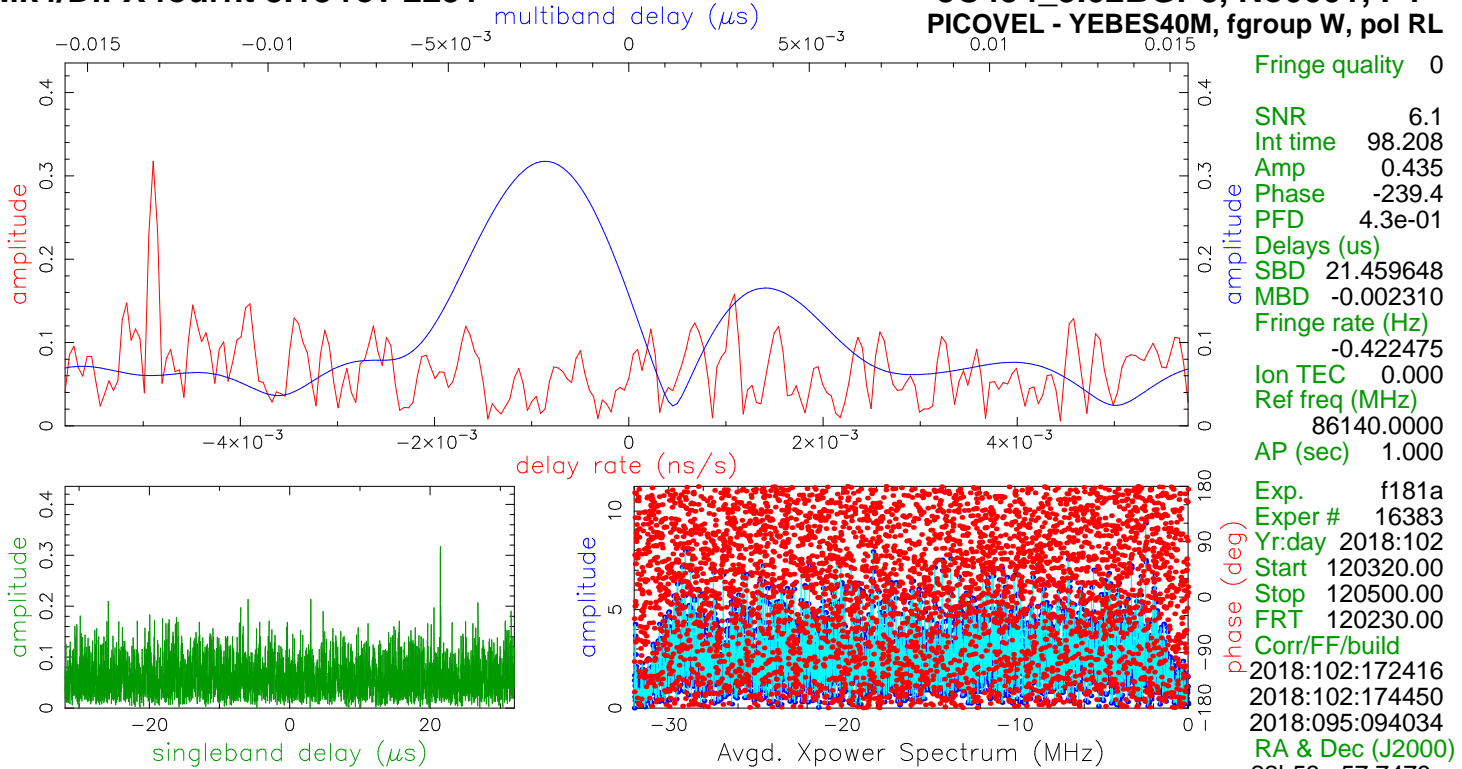


Amp. and Phase vs. time for each freq., 25 segs, 4 APs / seg (4.00 sec / seg.), time ticks 5 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
175.3	167.9	146.5	99.4	-174.3	-117.7	-161.4	136.5	Phase	168.8
1.6	1.2	0.6	0.3	0.2	0.3	0.5	0.5	Ampl.	0.6
3666.6	3666.5	3666.5	3723.8	4933.3	4156.8	3451.1	3613.9	Sbd box	3666.8
U/L	0/100	0/100	0/100	0/100	0/100	0/100	0/100	APs used	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
P	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000		
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	Chan ids	
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)		4.01193461006E+02	Apriori delay (usec)		4.04554238929E+02	Resid mbdelay (usec)		1.42221E-02	+/- 2.0E-04
Sband delay (usec)		4.01193641929E+02	Apriori clock (usec)		-5.6580720E+00	Resid sbdelay (usec)		-3.36060E+00	+/- 1.6E-03
Phase delay (usec)		4.04554244371E+02	Apriori clockrate (us/s)		-4.7999999E-07	Resid phdelay (usec)		5.44229E-06	+/- 3.4E-07
Delay rate (us/s)		-2.67513299698E-02	Apriori rate (us/s)		-2.67517329039E-02	Resid rate (us/s)		4.02934E-07	+/- 5.9E-09
Total phase (deg)		219.6	Apriori accel (us/s/s)		-3.66004297607E-06	Resid phase (deg)		168.8	+/- 10.5

ph/seg (deg)	62.7	Theor.	26.4	Amplitude	0.568 +/- 0.052	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	79.5	Search (256X32)	0.557	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000
ph/frq (deg)	46.5	Inc. seg. avg.	0.725	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.016 0.016
amp/frq (%)	82.2	Inc. frq. avg.	0.627	Sample rate(MSamp/s):	64	Data rate(Mb/s):	1024	dr window (ns/s)	-0.006 0.006
						nlags:	4096 t_cohere infinite	ion window (TEC)	0.00 0.00

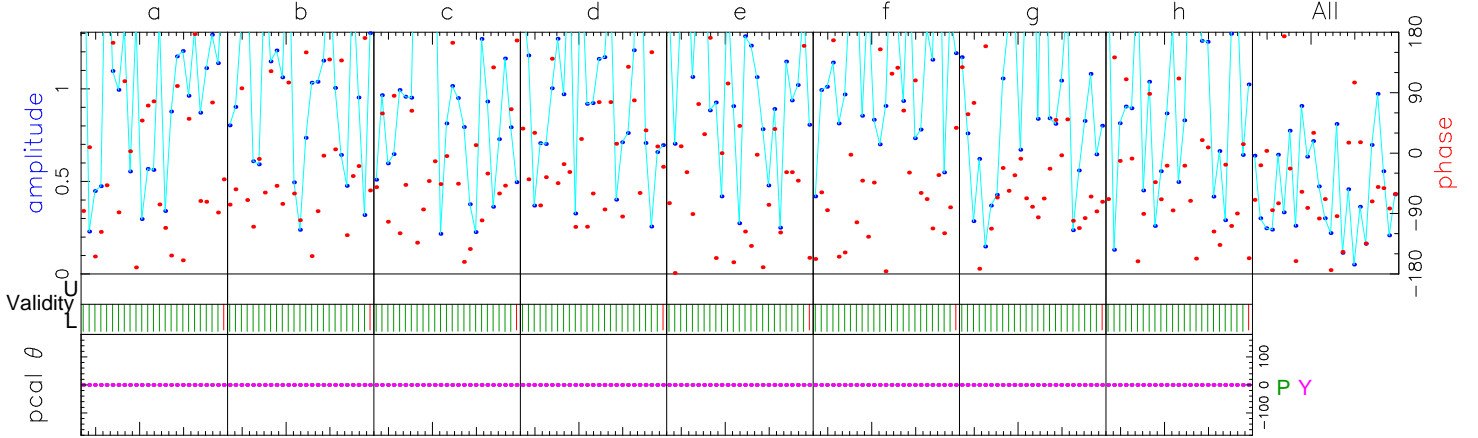


Fringe quality 0

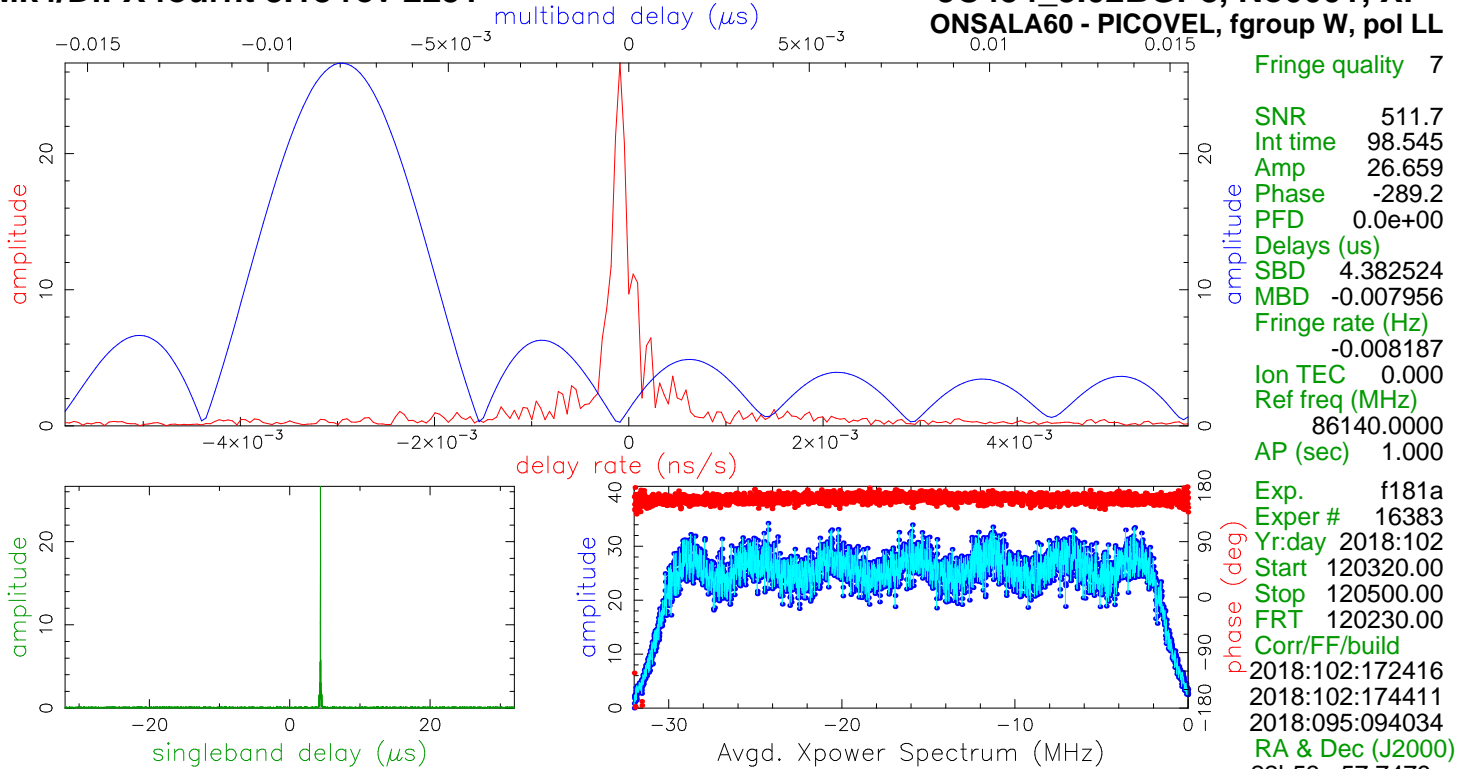
SNR 6.1
Int time 98.208
Amp 0.435
Phase -239.4
PFD 4.3e-01
Delays (us)
SBD 21.459648
MBD -0.002310
Fringe rate (Hz)
-0.422475
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 1.000

Exp. f181a
Exper # 16383
Yr:day 2018:102
Start 120320.00
Stop 120500.00
FRT 120230.00
Corr/FF/build
2018:102:172416
2018:102:174450
2018:095:094034
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

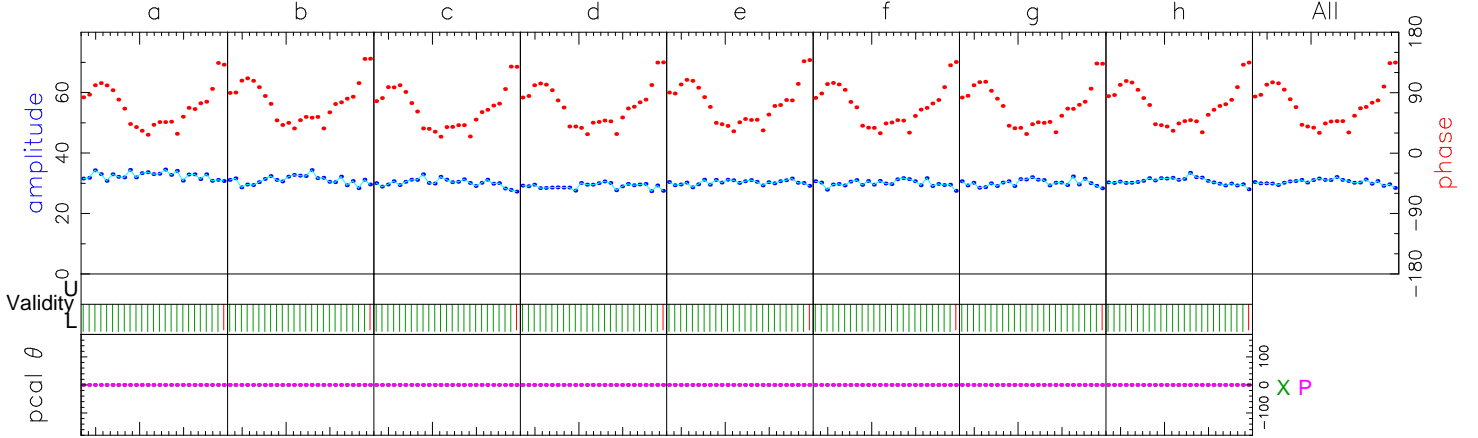
Amp. and Phase vs. time for each freq., 25 segs, 4 APs / seg (4.00 sec / seg.), time ticks 5 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/100	0/100	0/100	0/100	0/100	0/100	0/100	0/100	APs used	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC phase	
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
P:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
Y	1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
Group delay (usec)(sbd)		4.26020678630E+02		Apriori delay (usec)	4.04554238929E+02		Resid mbdelay (usec)	-2.31030E-03	+/-	3.6E-04
Sband delay (usec)		4.26013886429E+02		Apriori clock (usec)	-5.6580720E+00		Resid sbdelay (usec)	2.14596E+01	+/-	2.8E-03
Phase delay (usec)		4.04554237013E+02		Apriori clockrate (us/s)	-4.7999999E-07		Resid phdelay (usec)	-1.91593E-06	+/-	6.1E-07
Delay rate (us/s)		-2.67566374169E-02		Apriori rate (us/s)	-2.67517329039E-02		Resid rate (us/s)	-4.90451E-06	+/-	1.0E-08
Total phase (deg)		-188.5		Apriori accel (us/s/s)	-3.66004297607E-06		Resid phase (deg)	-239.4	+/-	18.8
RMS	66.8	47.0	Search (256X32)	0.310	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-32.000	32.000	
amp/seg (%)	91.6	81.9	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.016	0.016	
ph/frq (deg)	28.1	26.6	Inc. seg. avg.	0.472	Bits/sample: 2x2	Sample rate(MSamp/s): 64	dr window (ns/s)	-0.006	0.006	
amp/frq (%)	36.8	46.4	Inc. frq. avg.	0.431	Data rate(Mb/s): 1024	nlags: 4096 t_cohere infinite	ion window (TEC)	0.00	0.00	



Amp. and Phase vs. time for each freq., 25 segs, 4 APs / seg (4.00 sec / seg.), time ticks 5 sec

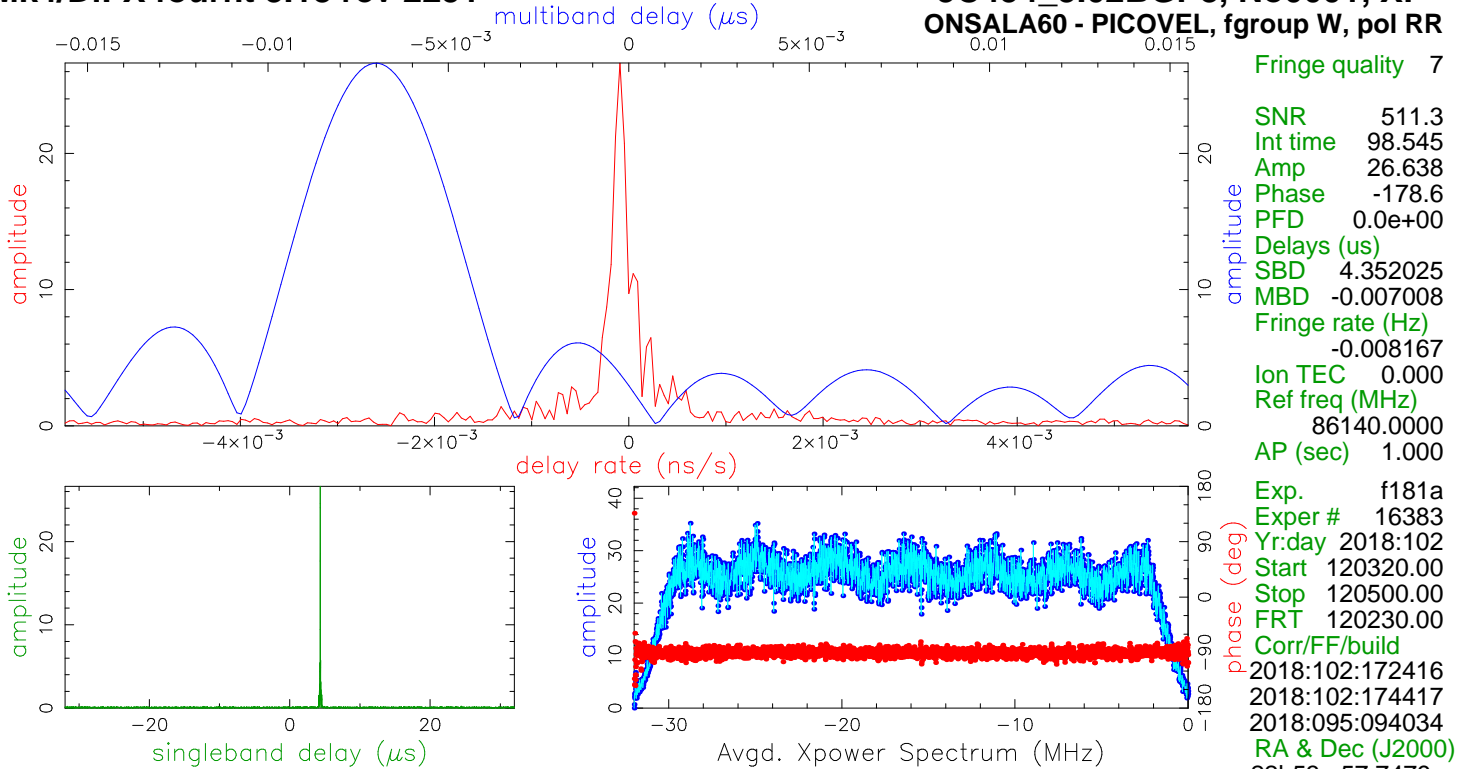


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	69.4	76.0	65.3	70.5	73.8	70.1	69.7	71.2	Phase	70.8
	28.4	27.2	26.4	25.4	26.4	26.3	26.4	27.0	Ampl.	26.7
	4658.0	4657.9	4658.0	4658.1	4658.0	4657.8	4658.1	4657.9	Sbd box	4658.0
U/L	0/100	0/100	0/100	0/100	0/100	0/100	0/100	0/100	APs used	
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)		-4.90646859950E+03		Apriori delay (usec)	-4.91083564333E+03	Resid mbdelay (usec)	-7.95617E-03	+/-	4.2E-06	
Sband delay (usec)		-4.90645311933E+03		Apriori clock (usec)	7.7930574E+00	Resid sbdelay (usec)	4.38252E+00	+/-	3.4E-05	
Phase delay (usec)		-4.91083564104E+03		Apriori clockrate (us/s)	3.8300000E-07	Resid phdelay (usec)	2.28189E-06	+/-	7.2E-09	
Delay rate (us/s)		5.69560429272E-02		Apriori rate (us/s)	5.69561379673E-02	Resid rate (us/s)	-9.50401E-08	+/-	1.3E-10	
Total phase (deg)			-43.0	Apriori accel (us/s/s)	3.37193172545E-05	Resid phase (deg)	-289.2	+/-	0.2	

	RMS	Theor.	Amplitude	26.659 +/- 0.052	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-32.000	32.000
ph/seg (deg)	29.6	0.6	Search (256X32)	26.513	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.016	0.016
amp/seg (%)	14.5	1.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.006	0.006
ph/frq (deg)	3.4	0.3	Inc. seg. avg.	30.453	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
amp/frq (%)	3.2	0.6	Inc. frq. avg.	26.690	Data rate(Mb/s): 1024	nlags: 4096 t_cohere infinite			

X: az 242.2 el 35.2 pa 29.9 P: az 244.0 el 53.8 pa 48.5 u.v (fr/asec) -308.258 2811.931 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/XP..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/XP.W.49.02BGP8



Fringe quality 7

SNR 511.3

Int time 98.545

Amp 26.638

Phase -178.6

PFD 0.0e+00

Delays (us)

SBD 4.352025

MBD -0.007008

Fringe rate (Hz)

-0.008167

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 1.000

Exp. f181a

Exper # 16383

Yr:day 2018:102

Start 120320.00

Stop 120500.00

FRT 120230.00

Corr/FF/build

2018:102:172416

2018:102:174417

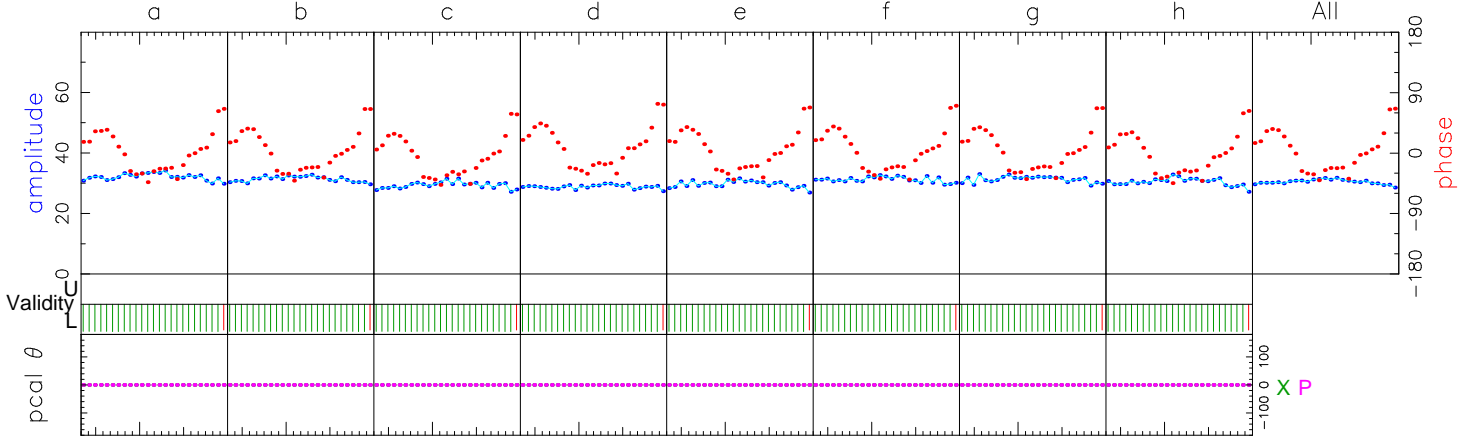
2018:095:094034

RA & Dec (J2000)

22h53m57.7479s

+16°08'53.561"

Amp. and Phase vs. time for each freq., 25 segs, 4 APs / seg (4.00 sec / seg.), time ticks 5 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
0.6	1.6	-5.9	8.8	3.6	3.4	2.6	-3.2	Phase	1.4
28.1	27.4	25.6	25.2	26.0	27.2	27.4	26.7	Ampl.	26.7
4654.1	4653.9	4654.1	4654.2	4654.1	4654.0	4654.1	4653.9	Sbd box	4654.1
U/L 0/100	0/100	0/100	0/100	0/100	0/100	0/100	0/100	APs used	
X -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC phase	
X:P 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X: P 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
Group delay (usec)(sbd)	-4.90649890150E+03	Apriori delay (usec)	-4.91083564333E+03	Resid mbdelay (usec)	-7.00817E-03	+/-	4.2E-06		
Sband delay (usec)	-4.90648361833E+03	Apriori clock (usec)	7.7930574E+00	Resid sbdelay (usec)	4.35203E+00	+/-	3.4E-05		
Phase delay (usec)	-4.91083564328E+03	Apriori clockrate (us/s)	3.8300000E-07	Resid phdelay (usec)	4.55601E-08	+/-	7.2E-09		
Delay rate (us/s)	5.69560431536E-02	Apriori rate (us/s)	5.69561379673E-02	Resid rate (us/s)	-9.48137E-08	+/-	1.3E-10		
Total phase (deg)	-292.4	Apriori accel (us/s/s)	3.37193172545E-05	Resid phase (deg)	-178.6	+/-	0.2		

ph/seg (deg) 29.7 0.6 Theor. Amplitude 26.638 +/- 0.052 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 14.7 1.0 Search (256X32) 26.469 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000

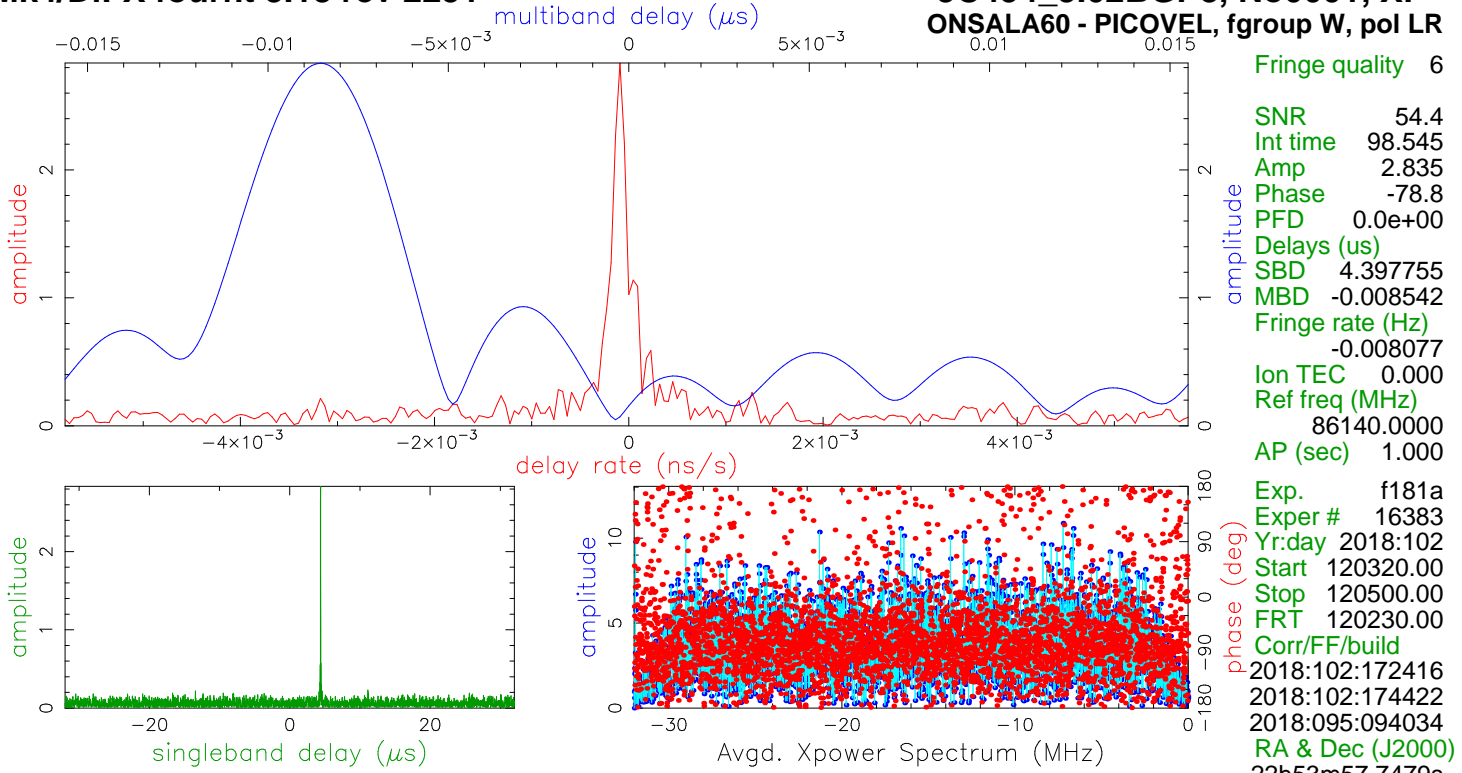
ph/frq (deg) 4.9 0.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 3.5 0.6 Inc. seg. avg. 30.478 Sample rate(MSamp/s): 64 dr window (ns/s) -0.006 0.006

amp/frq (%) 3.5 0.6 Inc. frq. avg. 26.698 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite ion window (TEC) 0.00 0.00

X: az 242.2 el 35.2 pa 29.9 P: az 244.0 el 53.8 pa 48.5 u.v (fr/asec) -308.258 2811.931 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/XP..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/XP.W.50.02BGP8

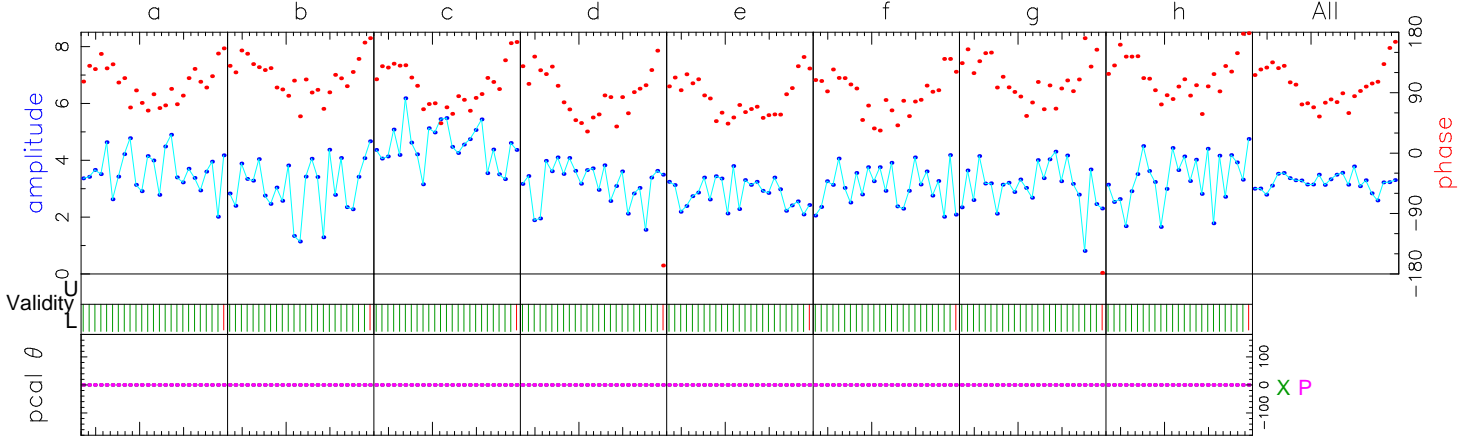


Fringe quality 6

SNR 54.4
 Int time 98.545
 Amp 2.835
 Phase -78.8
 PFD 0.0e+00
 Delays (us)
 SBD 4.397755
 MBD -0.008542
 Fringe rate (Hz)
 -0.008077
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.000

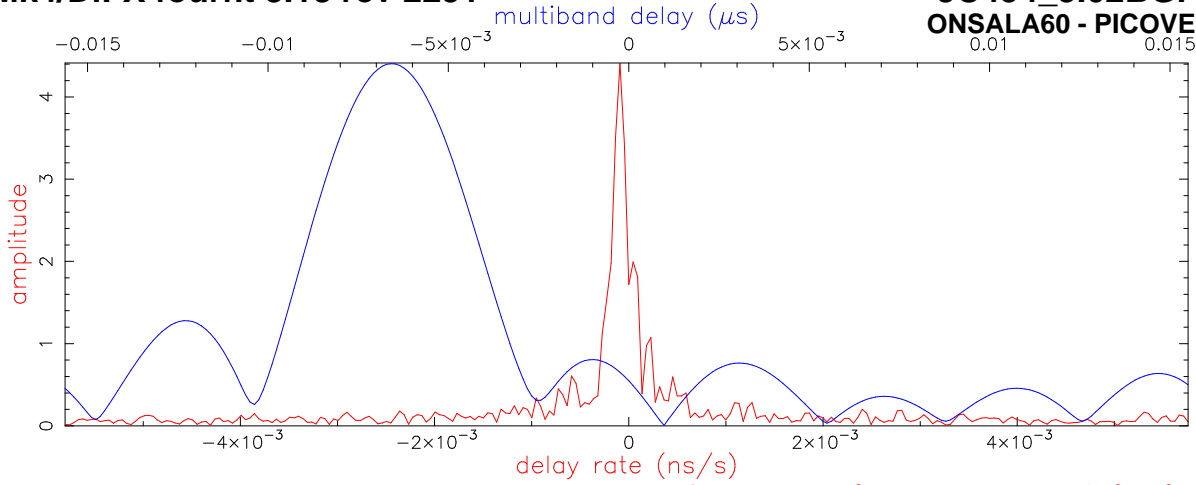
Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120320.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:174422
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 25 segs, 4 APs / seg (4.00 sec / seg.), time ticks 5 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/100	0/100	0/100	0/100	0/100	0/100	0/100	0/100	115.9	101.2
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	2.9	2.9
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	4659.9	4659.9
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
X	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)	-4.90643793506E+03								-8.54173E-03	+/- 4.0E-05
Sband delay (usec)	-4.90643788833E+03								4.39776E+00	+/- 3.2E-04
Phase delay (usec)	-4.91083564006E+03								3.26293E-06	+/- 6.8E-08
Delay rate (us/s)	5.69560442042E-02								-9.37631E-08	+/- 1.2E-09
Total phase (deg)			-192.6						-78.8	+/- 2.1
RMS	29.0	5.3								
ph/seg (deg)	16.7	9.2								
amp/seg (%)	15.0	3.0								
amp/frq (%)	14.9	5.2								
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode: MANUAL, MANUAL										
Pcal rate: 0.000E+00, 0.000E+00 (us/s)										
Bits/sample: 2x2										
Sample rate(MSamp/s): 64										
Data rate(Mb/s): 1024										
nlags: 4096 t_cohere infinite										
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										

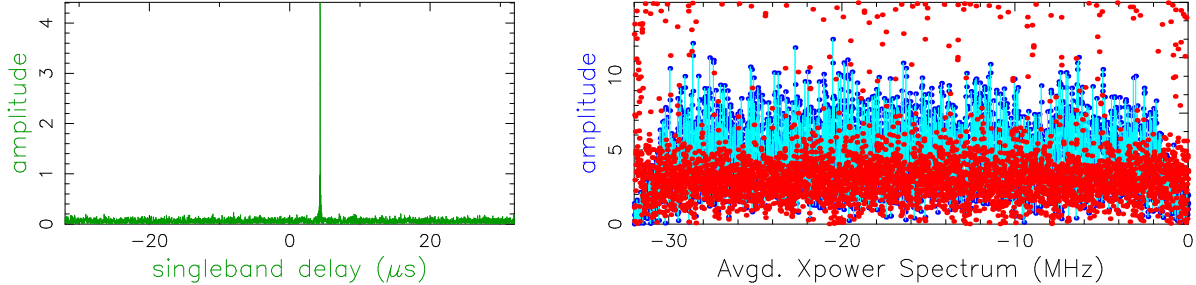
ph/seg (deg) 29.0 5.3 Search (256X32) 2.811 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 16.7 9.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 15.0 3.0 Inc. seg. avg. 3.217 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 14.9 5.2 Inc. frq. avg. 2.898 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006
 X: az 242.2 el 35.2 pa 29.9 P: az 244.0 el 53.8 pa 48.5 u,v (fr/asec) -308.258 2811.931 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/XP..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/XP.W.51.02BGP8



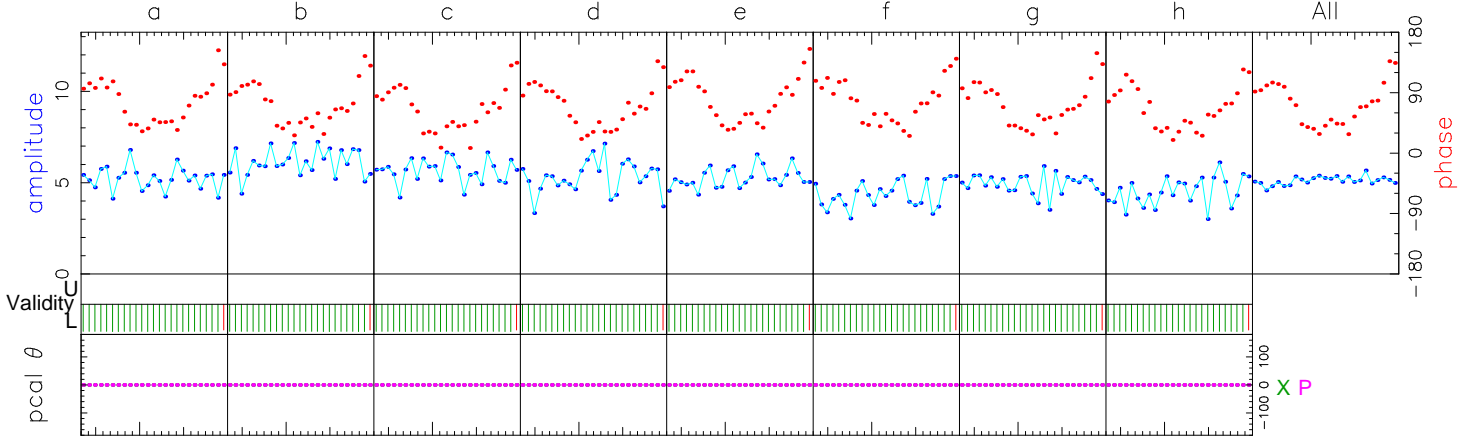
Fringe quality 7

SNR 84.7
 Int time 98.545
 Amp 4.414
 Phase -108.5
 PFD 0.0e+00
 Delays (us)
 SBD 4.337015
 MBD -0.006576
 Fringe rate (Hz)
 -0.008058
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.000

Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120320.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:174428
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



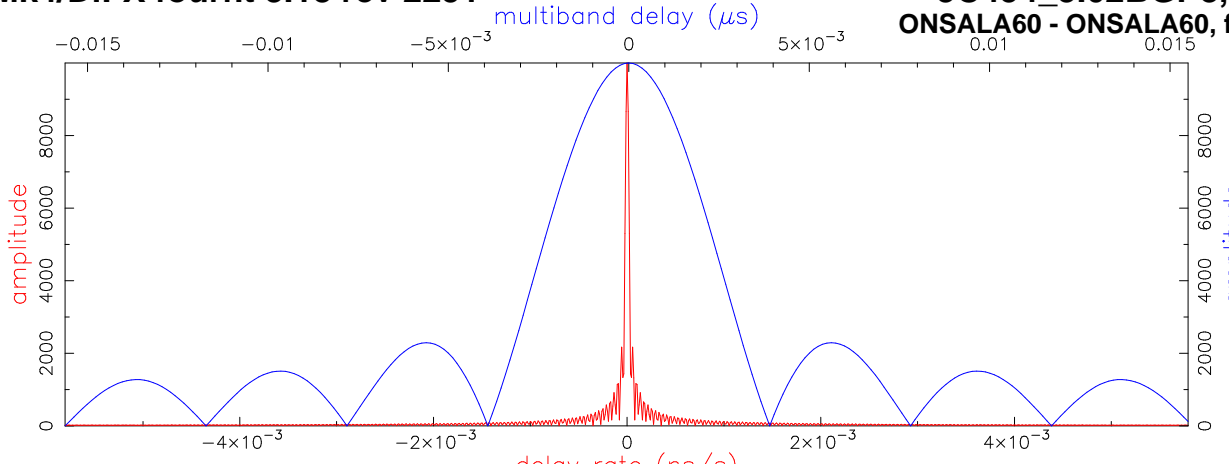
Amp. and Phase vs. time for each freq., 25 segs, 4 APs / seg (4.00 sec / seg.), time ticks 5 sec



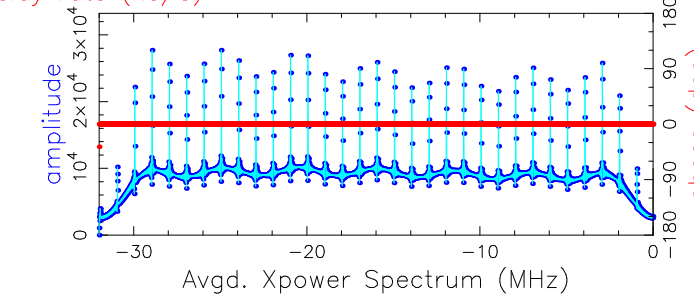
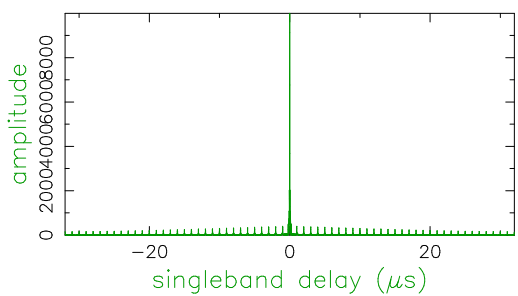
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/100	0/100	0/100	0/100	0/100	0/100	0/100	0/100	Ampl.	4.4
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	4652.1
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
X:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X	1000	1000	1000	1000	1000	1000	1000	1000	ManI PC	
P	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

Group delay (usec)(sbd)	-4.90649846887E+03	Apriori delay (usec)	-4.91083564333E+03	Resid mbdelay (usec)	-6.57554E-03	+/-	2.6E-05
Sband delay (usec)	-4.90649862833E+03	Apriori clock (usec)	7.7930574E+00	Resid sbdelay (usec)	4.33702E+00	+/-	2.0E-04
Phase delay (usec)	-4.91083564102E+03	Apriori clockrate (us/s)	3.8300000E-07	Resid phdelay (usec)	2.30553E-06	+/-	4.4E-08
Delay rate (us/s)	5.69560444190E-02	Apriori rate (us/s)	5.69561379673E-02	Resid rate (us/s)	-9.35483E-08	+/-	7.6E-10
Total phase (deg)	-222.3	Apriori accel (us/s/s)	3.37193172545E-05	Resid phase (deg)	-108.5	+/-	1.4

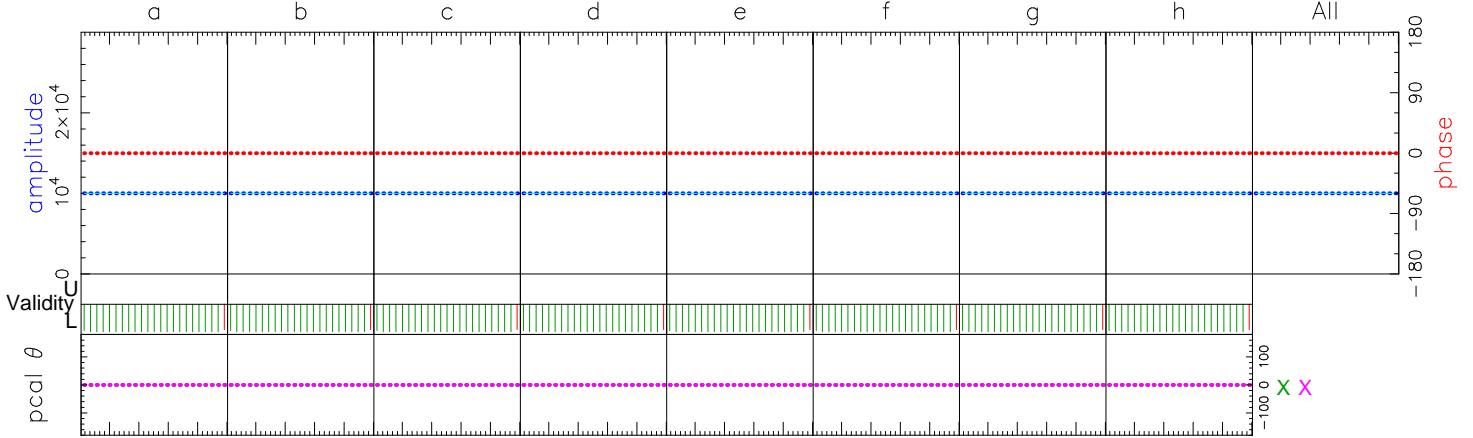
ph/seg (deg)	31.0	Theor.	3.4	Amplitude	4.414 +/- 0.052	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	16.7	Search (256X32)	4.369	Apriori clock (usec)	7.7930574E+00	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000
ph/frq (deg)	5.8	Interp.	0.000	Apriori clockrate (us/s)	3.8300000E-07	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	10.6	Inc. seg. avg.	5.108	Apriori rate (us/s)	5.69561379673E-02	Sample rate(MSamp/s):	64	mb window (us)	-0.016 0.016
		Inc. frq. avg.	4.421	Apriori accel (us/s/s)	3.37193172545E-05	Data rate(Mb/s):	1024	dr window (ns/s)	-0.006 0.006
						nlags:	4096 t_cohere infinite	ion window (TEC)	0.00 0.00



Fringe quality 9
 SNR 333505.0
 Int time 297.467
 Amp 9999.999
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.000
 Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120002.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:173250
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

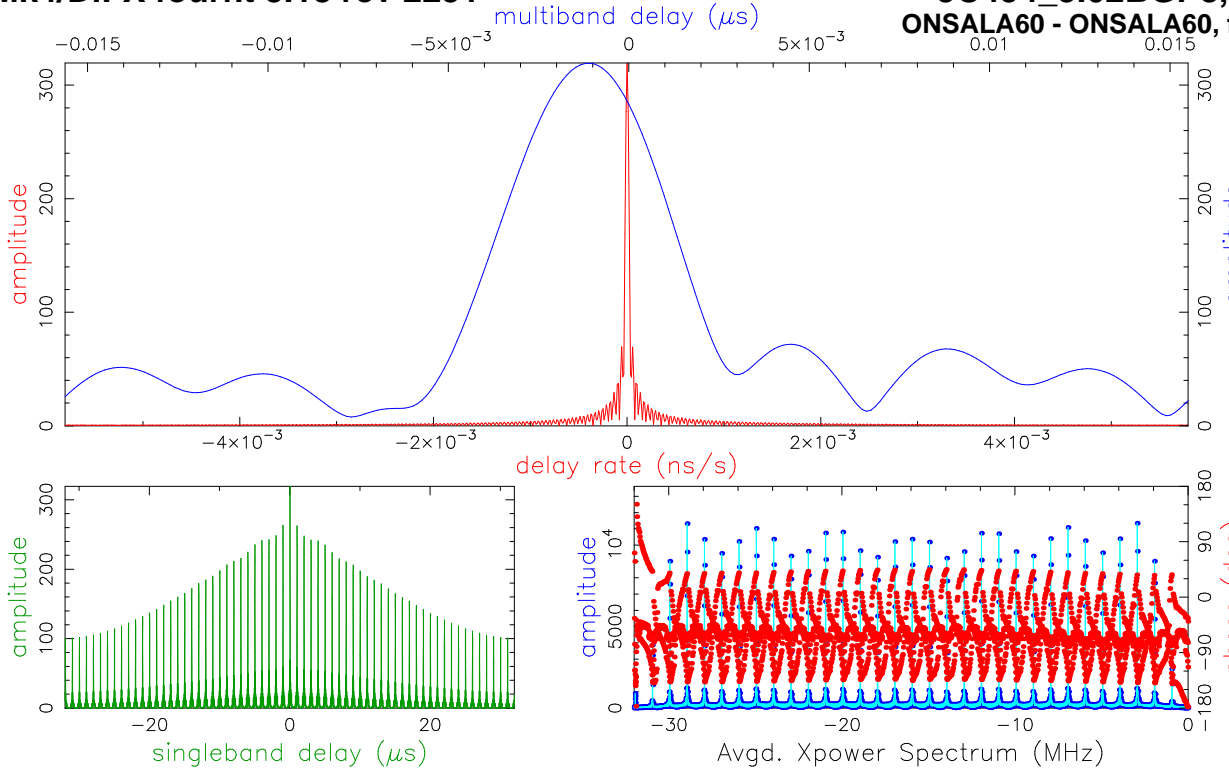


Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	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
4097.0	4097.0	4097.0	4097.0	4097.0	4097.0	4097.0	4097.0	Sbd box	4097.0
U/L 0/298	0/298	0/298	0/298	0/298	0/298	0/298	0/298	APs used	
X -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC phase	
X:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
X:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC amp	
X 1000	1000	1000	1000	1000	1000	1000	1000	Chan ids	
X 1000	1000	1000	1000	1000	1000	1000	1000	Tracks	
X W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
X W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	6.5E-09		
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	5.2E-08		
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.1E-11		
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	6.4E-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 0.0 RMS Theor. Amplitude 9999.999 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (1024X32) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006
 X: az 242.2 el 35.2 pa 29.9 X: az 242.2 el 35.2 pa 29.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

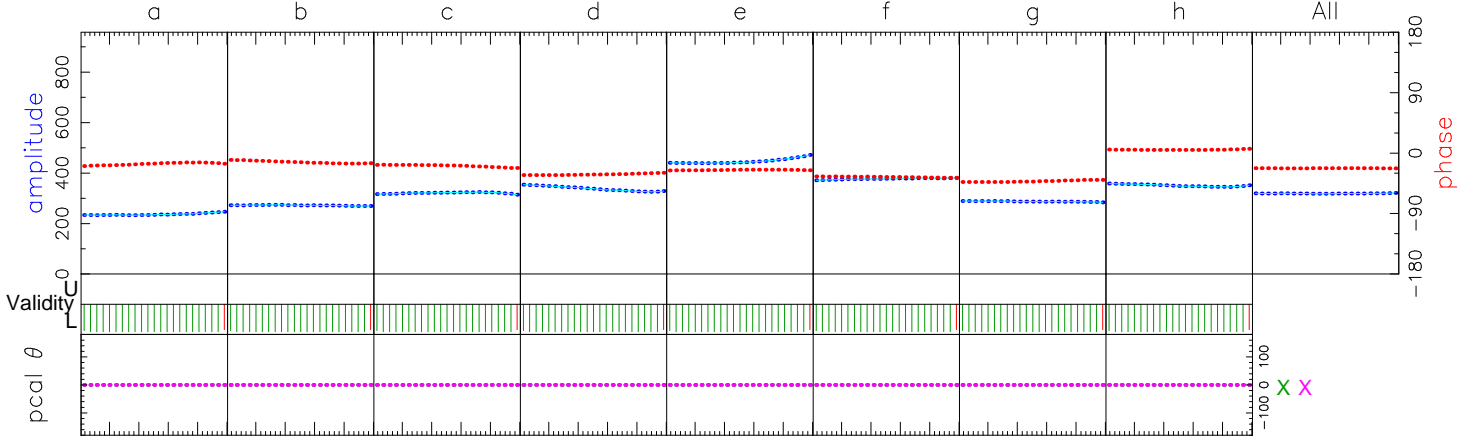


Fringe quality 8

SNR 10655.2
 Int time 297.467
 Amp 319.490
 Phase -22.6
 PFD 0.0e+00
 Delays (us)
 SBD 0.046317
 MBD -0.001114
 Fringe rate (Hz) 0.000002
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 1.000

Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120002.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:173311
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

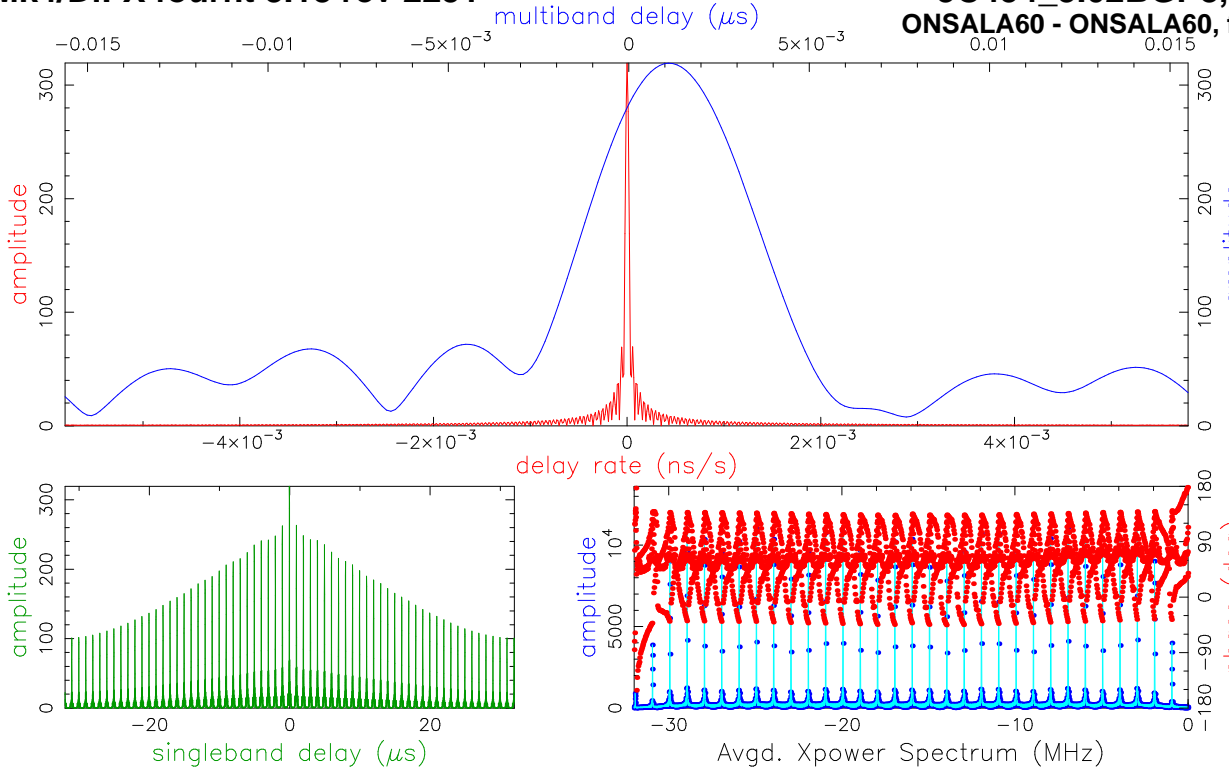
Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-16.0	-13.3	-18.9	-31.7	-25.1	-35.6	-41.8	5.1	Phase	-22.6
	236.8	272.0	321.0	338.5	447.1	377.2	287.5	351.1	Ampl.	328.9
	3975.0	3974.9	3974.8	4103.1	4103.0	4102.7	3974.9	4103.0	Sbd box	4102.9
U/L	0/298	0/298	0/298	0/298	0/298	0/298	0/298	0/298	APs used	
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:X	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	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
X									Chan ids	
X									Tracks	

Group delay (usec)(sbd) 6.13863125000E-02 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) -1.11369E-03 +/- 2.0E-07
 Sband delay (usec) 4.63175000000E-02 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 4.63175E-02 +/- 1.6E-06
 Phase delay (usec) -7.27521097814E-07 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) -7.27521E-07 +/- 3.5E-10
 Delay rate (us/s) 2.61202693290E-11 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) 2.61203E-11 +/- 2.0E-12
 Total phase (deg) -22.6 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) -22.6 +/- 0.0

ph/seg (deg) 0.0 0.0 Theor. Amplitude 319.490 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.2 0.0 Search (1024X32) 318.745 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 16.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 19.5 0.0 Inc. seg. avg. 319.346 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006
 amp/frq (%) 19.5 0.0 Inc. frq. avg. 328.879 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite ion window (TEC) 0.00 0.00

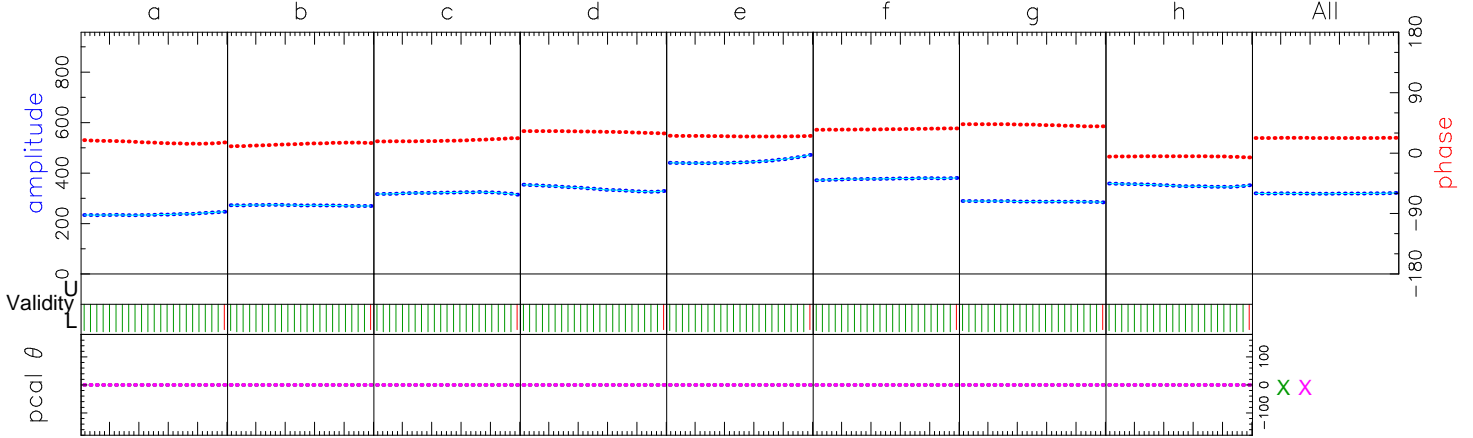


Fringe quality 8

SNR 10655.2
 Int time 297.467
 Amp 319.490
 Phase 22.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.046317
 MBD 0.001114
 Fringe rate (Hz)
 -0.000002
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.000

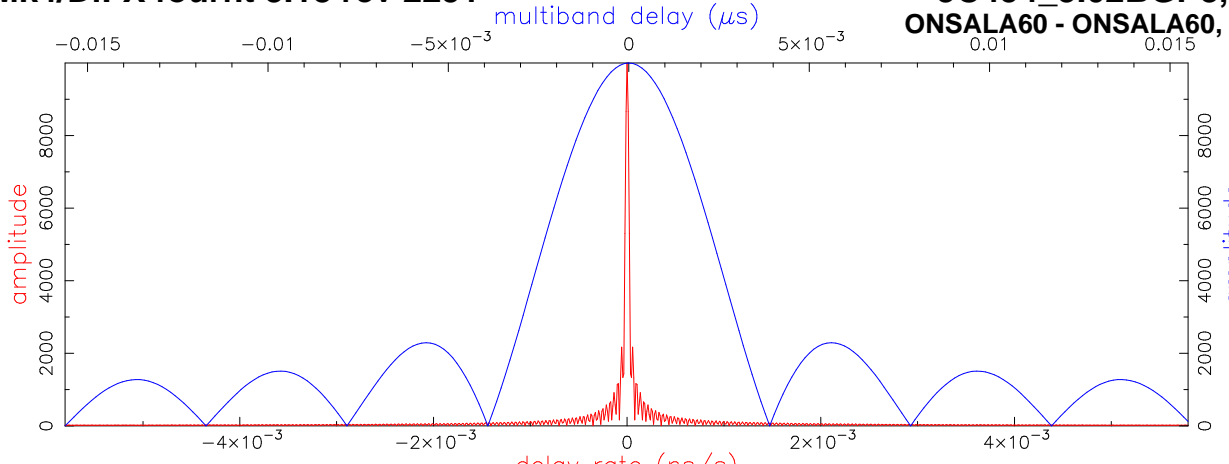
Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120002.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:173331
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	16.0	13.3	18.9	31.7	25.1	35.6	41.8	-5.1	Phase	22.6
	236.8	272.0	321.0	338.5	447.1	377.2	287.5	351.1	Ampl.	328.9
	4219.0	4219.1	4219.2	4090.9	4091.0	4091.3	4219.1	4091.0	Sbd box	4091.1
U/L	0/298	0/298	0/298	0/298	0/298	0/298	0/298	0/298	APs used	
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.13863125000E-02		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		1.11369E-03	+/- 2.0E-07
Sband delay (usec)	-4.63175000000E-02		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-4.63175E-02	+/- 1.6E-06
Phase delay (usec)	7.27521097793E-07		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		7.27521E-07	+/- 3.5E-10
Delay rate (us/s)	-2.61202693290E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-2.61203E-11	+/- 2.0E-12
Total phase (deg)	22.6		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		22.6	+/- 0.0

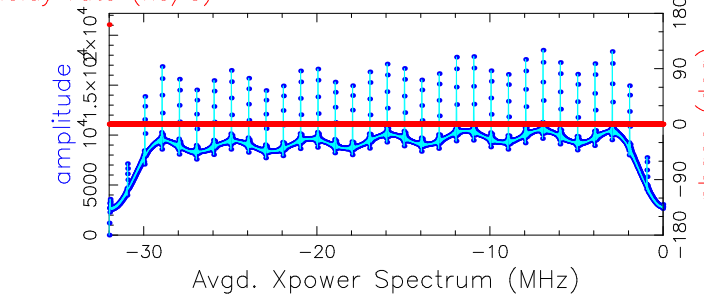
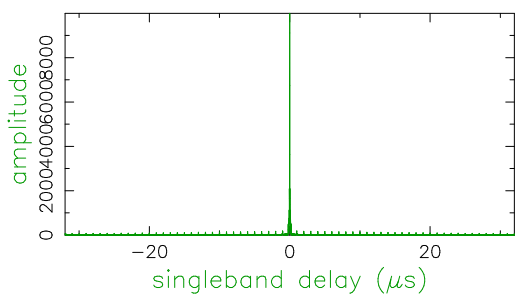
ph/seg (deg) 0.0 0.0 Theor. Amplitude 319.490 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.2 0.0 Search (1024X32) 318.745 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 16.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 19.5 0.0 Inc. seg. avg. 319.346 Sample rate(MSamp/s): 64 dr window (ns/s) -0.006 0.006
 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite ion window (TEC) 0.00 0.00



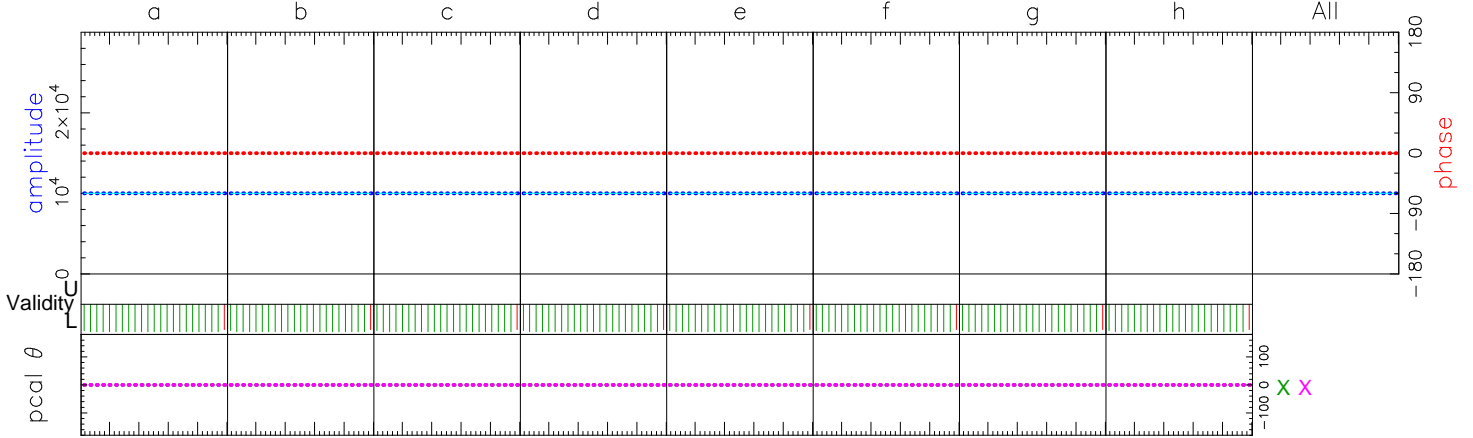
Fringe quality 9

SNR 333505.0
 Int time 297.467
 Amp 9999.999
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.000

Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120002.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:173230
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

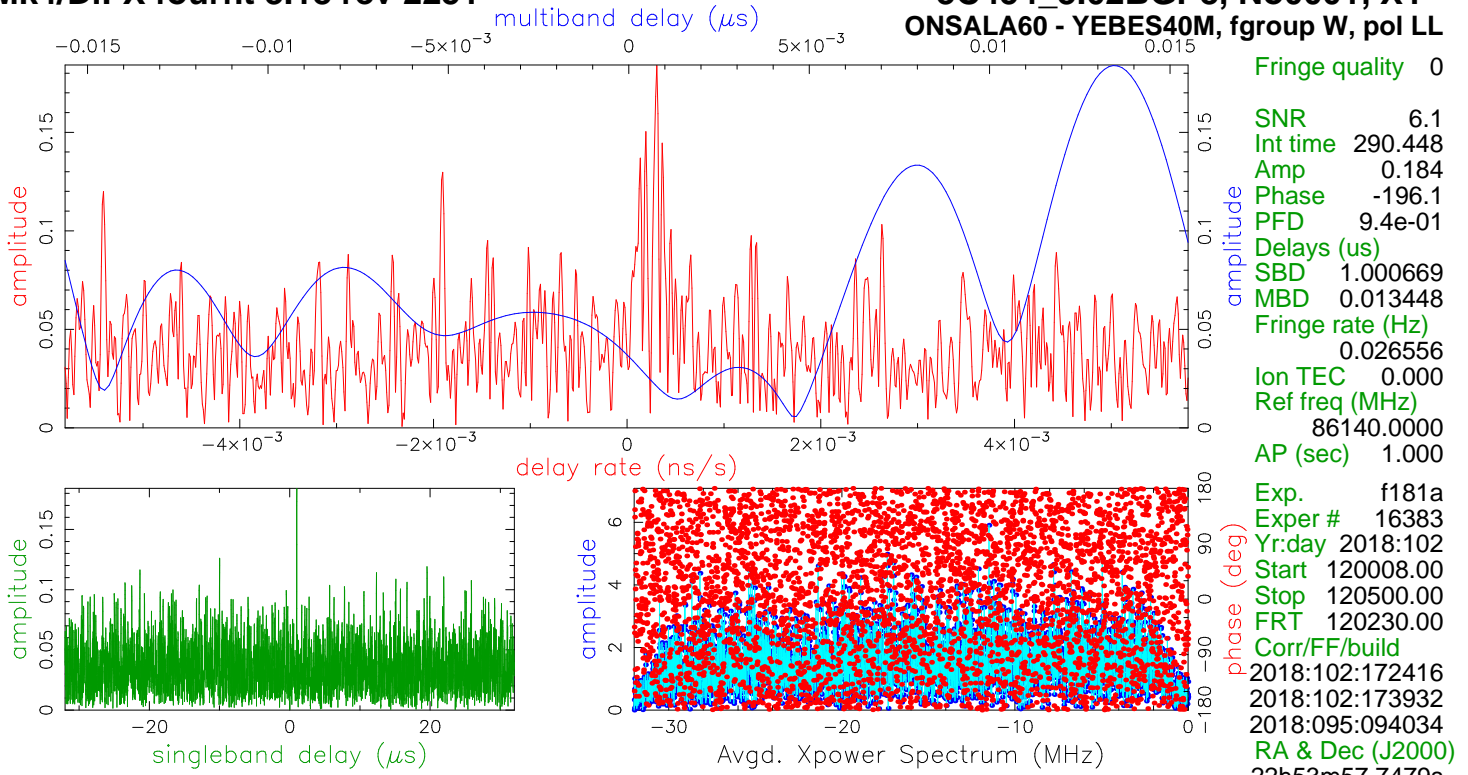


Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



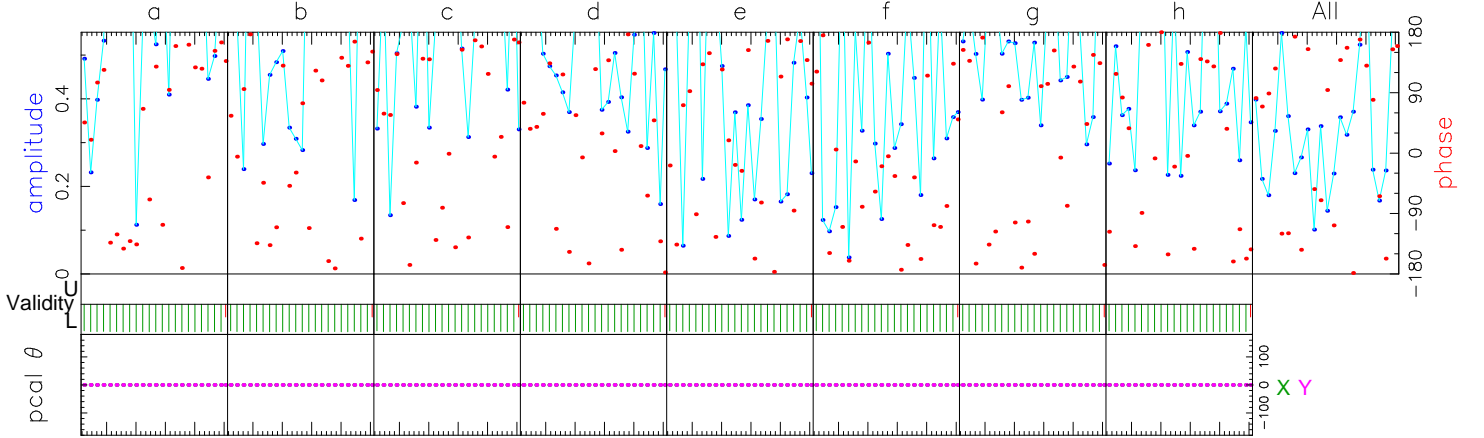
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/298	0/298	0/298	0/298	0/298	0/298	0/298	0/298	10000.0	0.0
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Ampl.	10000.0
X:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	4097.0
X	1000	1000	1000	1000	1000	1000	1000	1000	APs used	
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	PC freqs	
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	PC phase	
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Manl PC	
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	PC amp	
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00 +/- 6.5E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid sbdelay (usec)	0.00000E+00 +/- 5.2E-08
Phase delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid phdelay (usec)	0.00000E+00 +/- 1.1E-11
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Resid rate (us/s)	0.00000E+00 +/- 6.4E-14
Total phase (deg)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Resid phase (deg)	0.0 +/- 0.0

ph/seg (deg) 0.0 0.0 Theor. Amplitude 9999.999 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (1024X32) 9999.999 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006
 X: az 242.2 el 35.2 pa 29.9 X: az 242.2 el 35.2 pa 29.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/XX..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/XX.W.9.02BGP8



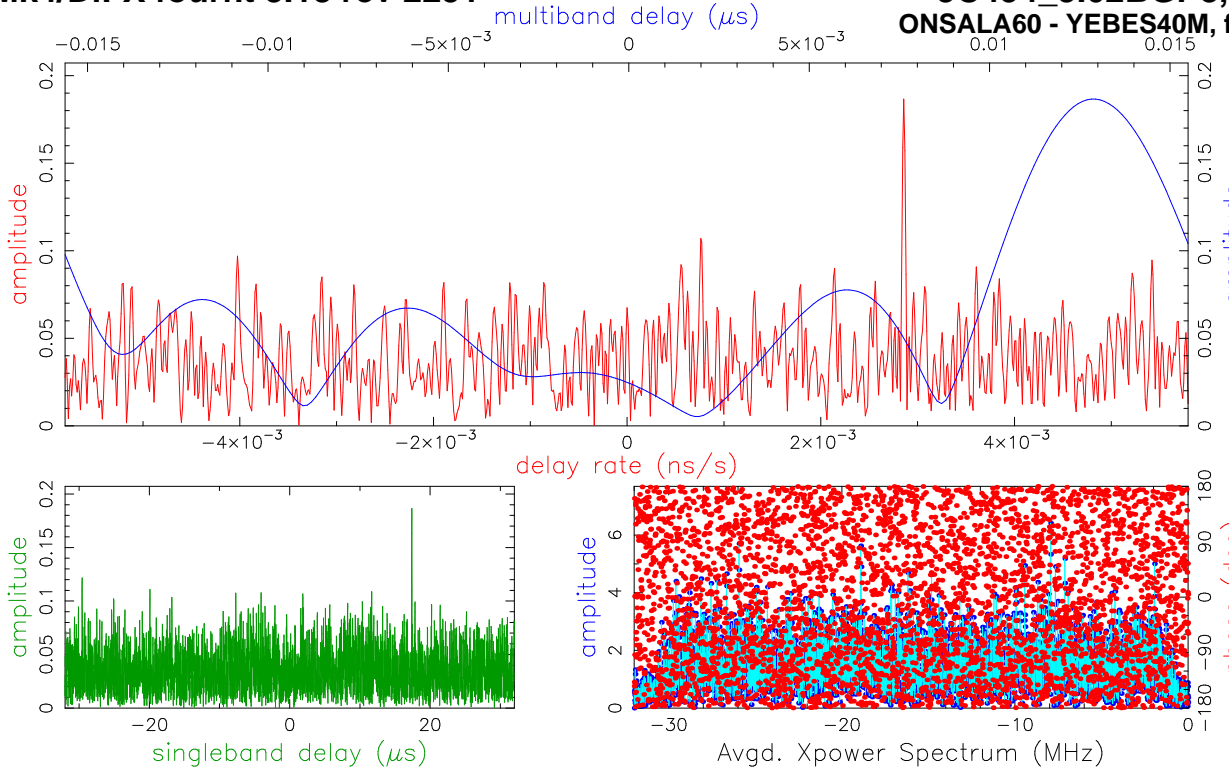
Fringe quality 0
 SNR 6.1
 Int time 290.448
 Amp 0.184
 Phase -196.1
 PFD 9.4e-01
 Delays (us)
 SBD 1.000669
 MBD 0.013448
 Fringe rate (Hz) 0.026556
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 1.000
 Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120008.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:173932
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



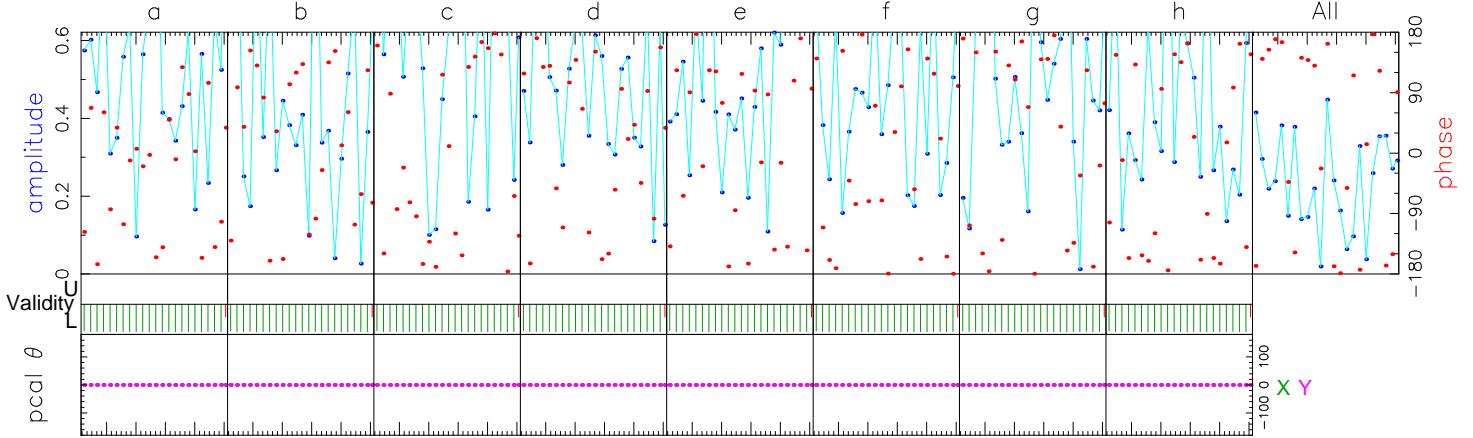
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292		
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	APs used	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	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	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.50526795665E+03		Apriori delay (usec)	-4.50628140440E+03	Resid mbdelay (usec)	1.34478E-02	+/-	3.6E-04		
Sband delay (usec)	-4.50528073490E+03		Apriori clock (usec)	2.1349854E+00	Resid sbdelay (usec)	1.00067E+00	+/-	2.8E-03		
Phase delay (usec)	-4.50628139911E+03		Apriori clockrate (us/s)	-9.6999991E-08	Resid phdelay (usec)	5.28524E-06	+/-	6.1E-07		
Delay rate (us/s)	3.02047133500E-02		Apriori rate (us/s)	3.02044050634E-02	Resid rate (us/s)	3.08287E-07	+/-	3.6E-09		
Total phase (deg)		-259.0	Apriori accel (us/s/s)	3.00592742785E-05	Resid phase (deg)	-196.1	+/-	18.9		

ph/seg (deg) 71.4 45.3 Search (1024X32) 0.180 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 118.2 79.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 45.5 26.7 Inc. seg. avg. 0.254 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 49.8 46.7 Inc. frq. avg. 0.195 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006
 X: az 242.2 el 35.2 pa 29.9 Y: az 240.3 el 52.0 pa 43.7 u,v (fr/asec) -152.206 2328.994 ion window (TEC) 0.00 0.00
 Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/XY..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/XY.W.29.02BGP8 simultaneous interpolator



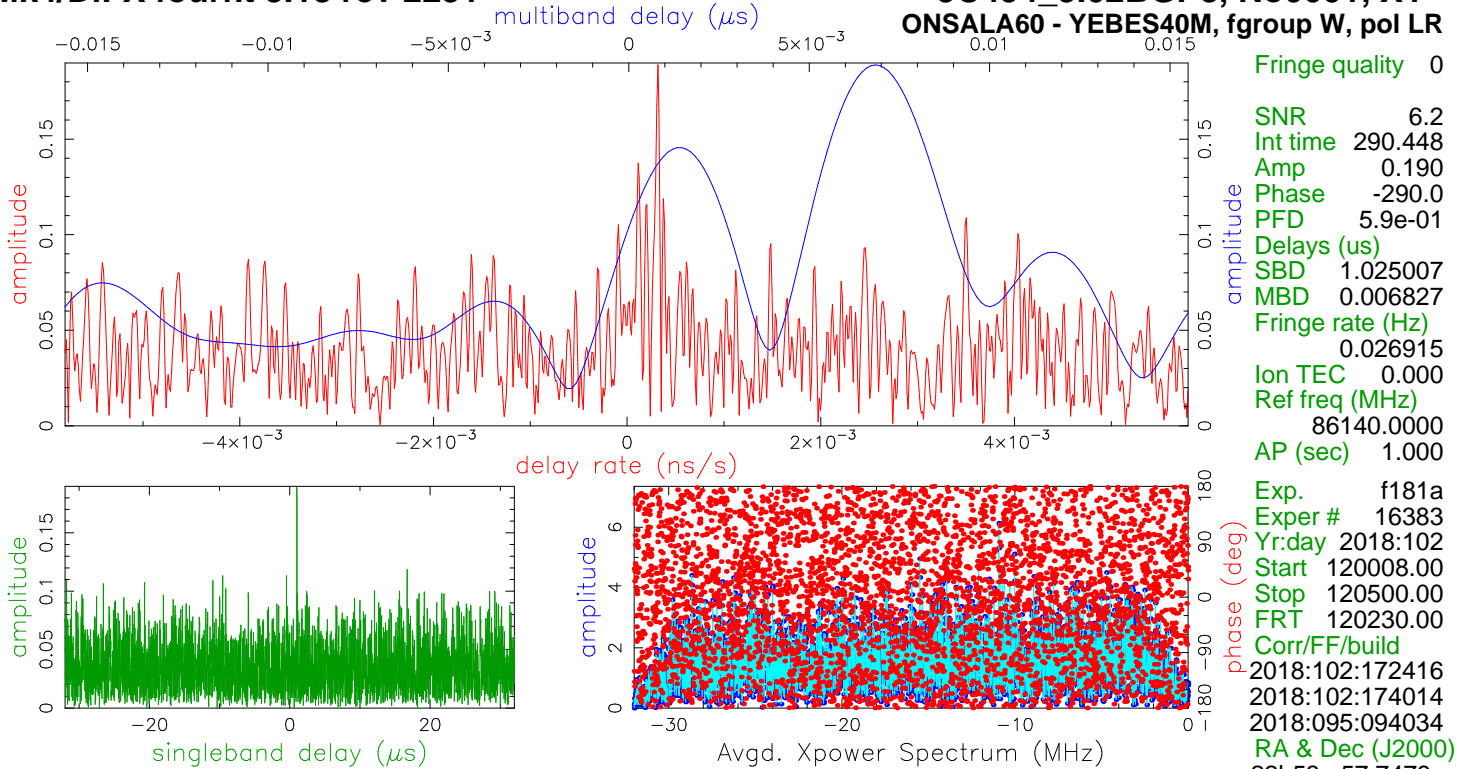
Fringe quality 0
 SNR 6.2
 Int time 290.448
 Amp 0.207
 Phase -189.8
 PFD 7.7e-01
 Delays (us)
 SBD 17.397062
 MBD 0.012896
 Fringe rate (Hz)
 0.246340
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.000
 Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120008.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:173953
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-57.3	161.9	-163.7	135.4	159.3	158.7	168.6	-175.7	Phase	170.2
	0.0	0.1	0.3	0.2	0.2	0.2	0.4	0.3	Ampl.	0.2
	3329.3	4300.3	429.9	1776.1	1417.6	61.1	591.0	3108.4	Sbd box	6323.8
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	APs used	
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
Group delay (usec)(sbd)	-4.48889350864E+03		Apriori delay (usec)		-4.50628140440E+03		Resid mbdelay (usec)		1.28958E-02	+/- 3.5E-04
Sband delay (usec)	-4.48888434290E+03		Apriori clock (usec)		2.1349854E+00		Resid sbdelay (usec)		1.73971E+01	+/- 2.8E-03
Phase delay (usec)	-4.50628139891E+03		Apriori clockrate (us/s)		-9.6999991E-08		Resid phdelay (usec)		5.48973E-06	+/- 6.0E-07
Delay rate (us/s)	3.02072648309E-02		Apriori rate (us/s)		3.02044050634E-02		Resid rate (us/s)		2.85977E-06	+/- 3.6E-09
Total phase (deg)			Apriori accel (us/s/s)		3.00592742785E-05		Resid phase (deg)		-189.8	+/- 18.6

ph/seg (deg) 70.4 44.6 Search (1024X32) 0.183 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 70.1 77.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 57.7 26.3 Inc. seg. avg. 0.203 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 51.8 45.9 Inc. frq. avg. 0.203 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006
 X: az 242.2 el 35.2 pa 29.9 Y: az 240.3 el 52.0 pa 43.7 u,v (fr/asec) -152.206 2328.994 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/XY..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/XY.W.30.02BGP8



Fringe quality 0

SNR 6.2

Int time 290.448

Amp 0.190

Phase -290.0

PFD 5.9e-01

Delays (us)

SBD 1.025007

MBD 0.006827

Fringe rate (Hz)

0.026915

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 1.000

Exp. f181a

Exper # 16383

Yr:day 2018:102

Start 120008.00

Stop 120500.00

FRT 120230.00

Corr/FF/build

2018:102:172416

2018:102:174014

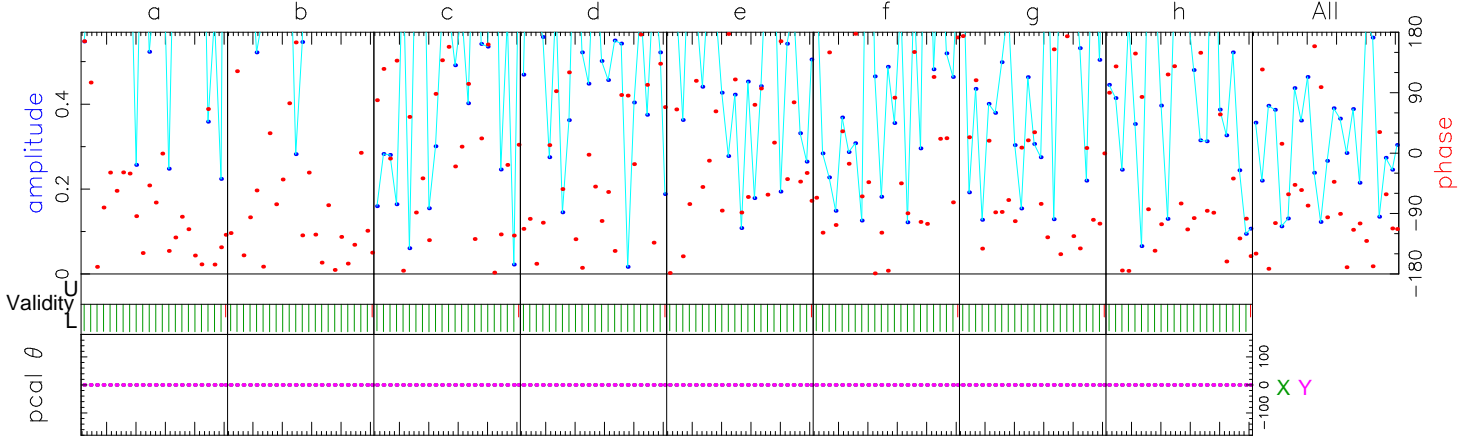
2018:095:094034

RA & Dec (J2000)

22h53m57.7479s

+16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-107.7	-115.1	-143.2	-127.6	-7.8	-79.8	-111.6	-129.4	Phase	-110.0
0.4	0.4	0.0	0.2	0.1	0.1	0.2	0.2	Ampl.	0.2
4228.5	4227.7	2238.7	6239.1	1819.9	3221.4	5807.0	693.3	Sbd box	4228.2
U/L 0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	APs used	
X -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y 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	PC amp	
Y 1000	1000	1000	1000	1000	1000	1000	1000		
X W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Y W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-4.50524332742E+03		Apriori delay (usec)	-4.50628140440E+03	Resid mbdelay (usec)	6.82698E-03	+/-	3.5E-04	
Sband delay (usec)	-4.50525639690E+03		Apriori clock (usec)	2.1349854E+00	Resid sbdelay (usec)	1.02501E+00	+/-	2.8E-03	
Phase delay (usec)	-4.50628140795E+03		Apriori clockrate (us/s)	-9.6999991E-08	Resid phdelay (usec)	-3.54856E-06	+/-	5.9E-07	
Delay rate (us/s)	3.02047175249E-02		Apriori rate (us/s)	3.02044050634E-02	Resid rate (us/s)	3.12462E-07	+/-	3.5E-09	
Total phase (deg)	-352.9		Apriori accel (us/s/s)	3.00592742785E-05	Resid phase (deg)	-290.0	+/-	18.3	

ph/seg (deg) 71.0 44.0 Theor. Amplitude 0.190 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

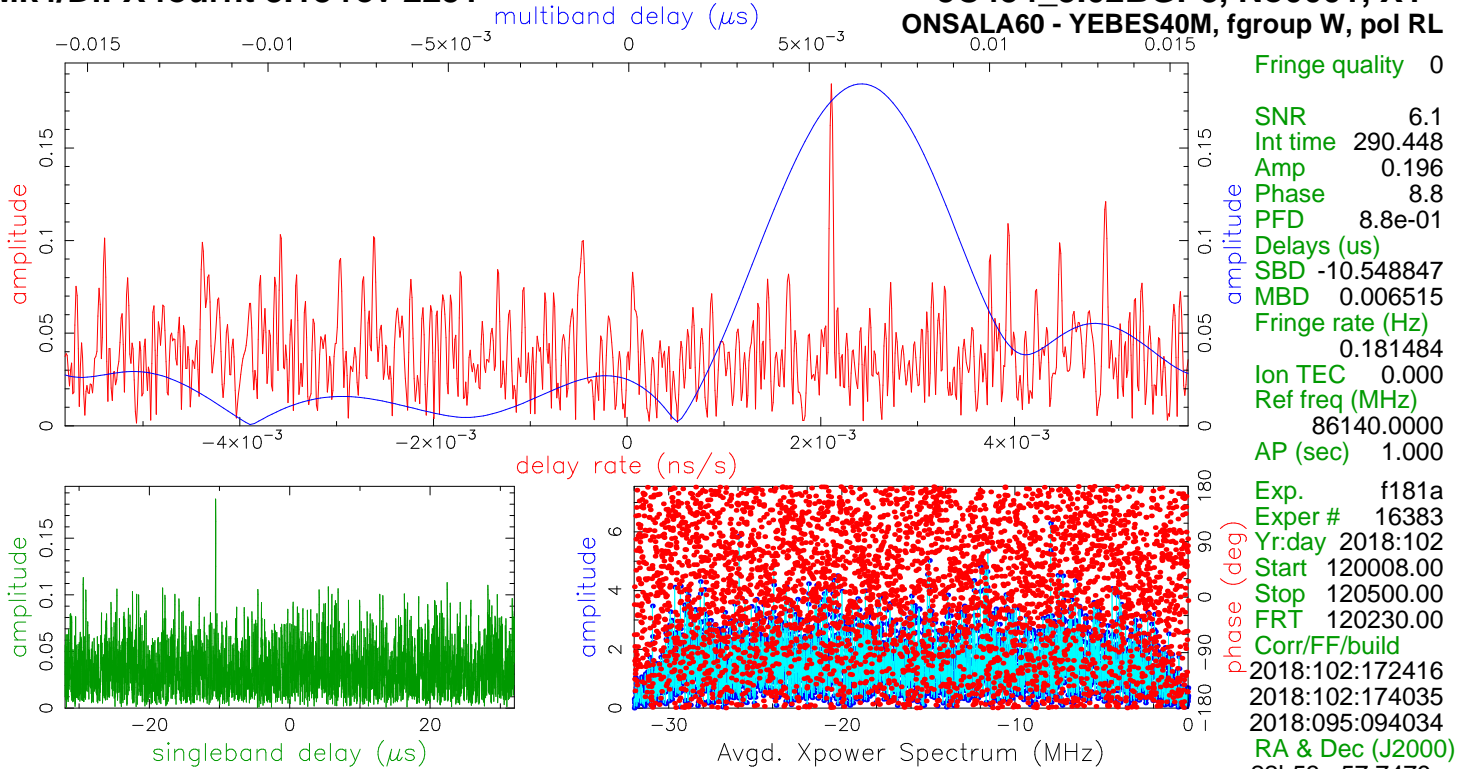
amp/seg (%) 95.7 76.7 Search (1024X32) 0.184 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000

ph/frq (deg) 46.9 25.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 67.6 45.3 Inc. seg. avg. 0.244 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006

X: az 242.2 el 35.2 pa 29.9 Y: az 240.3 el 52.0 pa 43.7 u,v (fr/asec) -152.206 2328.994 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite ion window (TEC) 0.00 0.00

Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/XY..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/XY.W.31.02BGP8 simultaneous interpolator

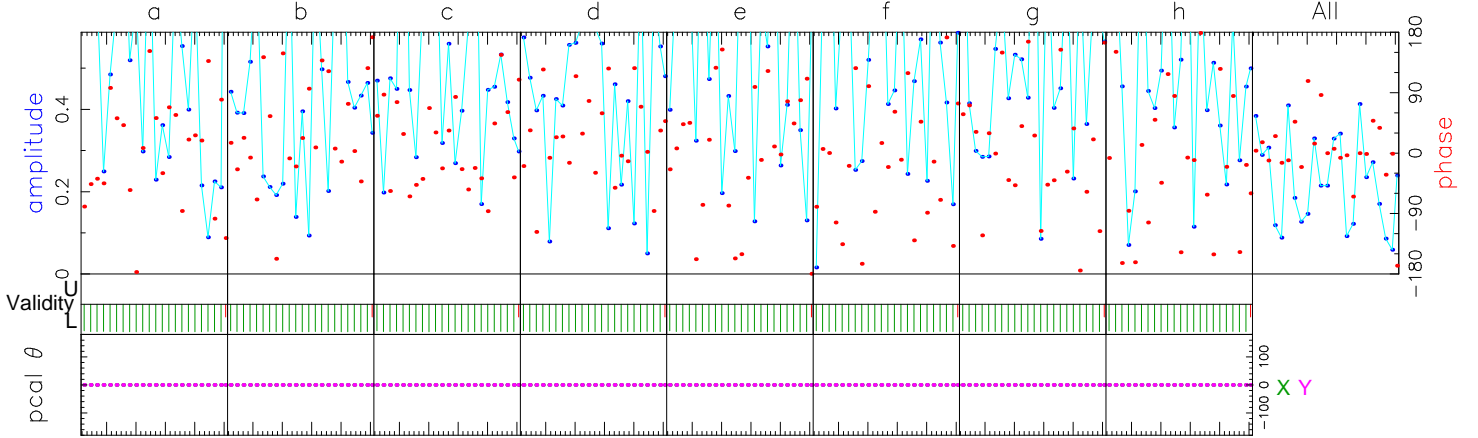


Fringe quality 0

SNR 6.1
Int time 290.448
Amp 0.196
Phase 8.8
PFD 8.8e-01
Delays (μs)
SBD -10.548847
MBD 0.006515
Fringe rate (Hz) 0.181484
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 1.000

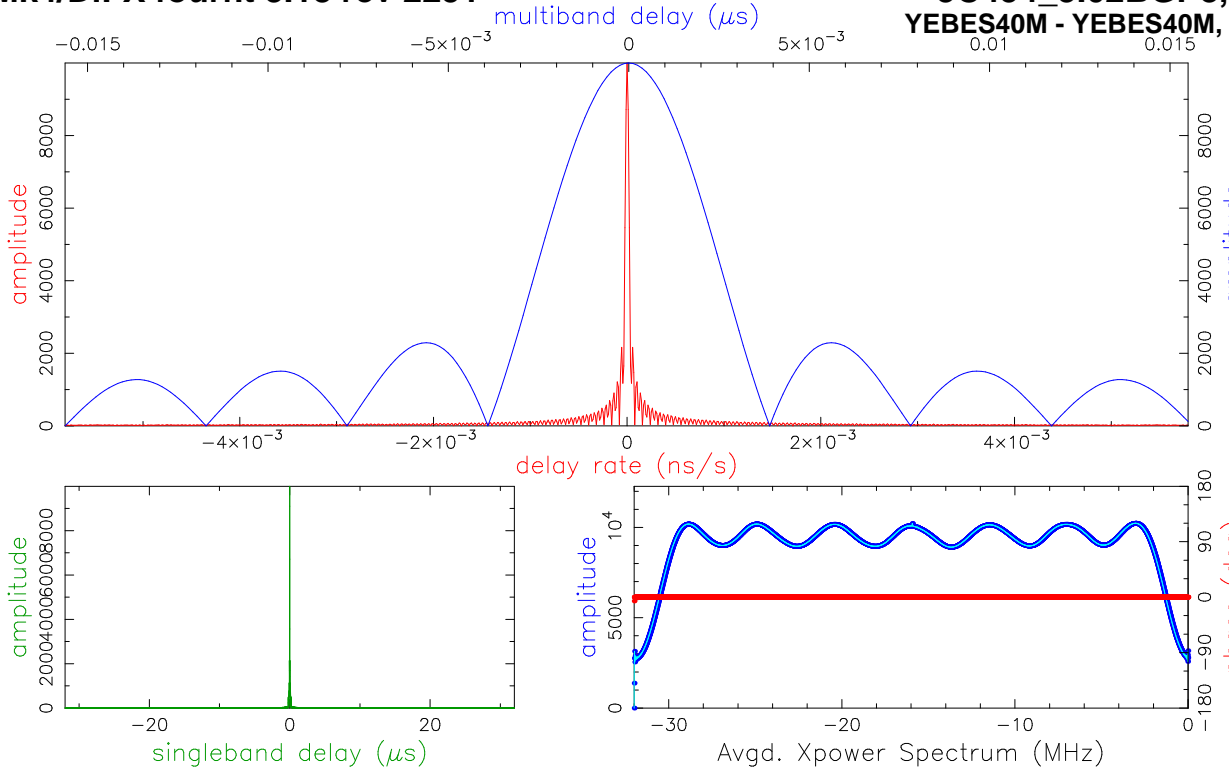
Exp. f181a
Exper # 16383
Yr:day 2018:102
Start 120008.00
Stop 120500.00
FRT 120230.00
Corr/FF/build
2018:102:172416
2018:102:174035
2018:095:094034
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
0.8	8.6	8.8	25.7	22.2	-16.7	5.2	27.8	Phase	8.8
0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.0	Ampl.	0.2
963.4	6777.9	3237.6	2248.7	6245.8	6426.7	6777.8	1065.4	Sbd box	2746.7
U/L 0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	APs used	
X -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y 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	PC amp	
Y 1000	1000	1000	1000	1000	1000	1000	1000		
X W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Y W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-4.51683738946E+03		Apriori delay (usec)	-4.50628140440E+03		Resid mbdelay (usec)	6.51494E-03	+/-	3.6E-04
Sband delay (usec)	-4.51683025140E+03		Apriori clock (usec)	2.1349854E+00		Resid sbdelay (usec)	-1.05488E+01	+/-	2.8E-03
Phase delay (usec)	-4.50628140411E+03		Apriori clockrate (us/s)	-9.6999991E-08		Resid phdelay (usec)	2.82517E-07	+/-	6.0E-07
Delay rate (us/s)	3.02065119091E-02		Apriori rate (us/s)	3.02044050634E-02		Resid rate (us/s)	2.10685E-06	+/-	3.6E-09
Total phase (deg)		305.9	Apriori accel (us/s/s)	3.00592742785E-05		Resid phase (deg)	8.8	+/-	18.8

RMS Theor. Amplitude 0.196 +/- 0.032 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 44.5 45.0 Search (1024X32) 0.182 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 62.6 78.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 16.1 26.5 Inc. seg. avg. 0.181 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006
 amp/frq (%) 42.0 46.3 Inc. frq. avg. 0.181 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite ion window (TEC) 0.00 0.00

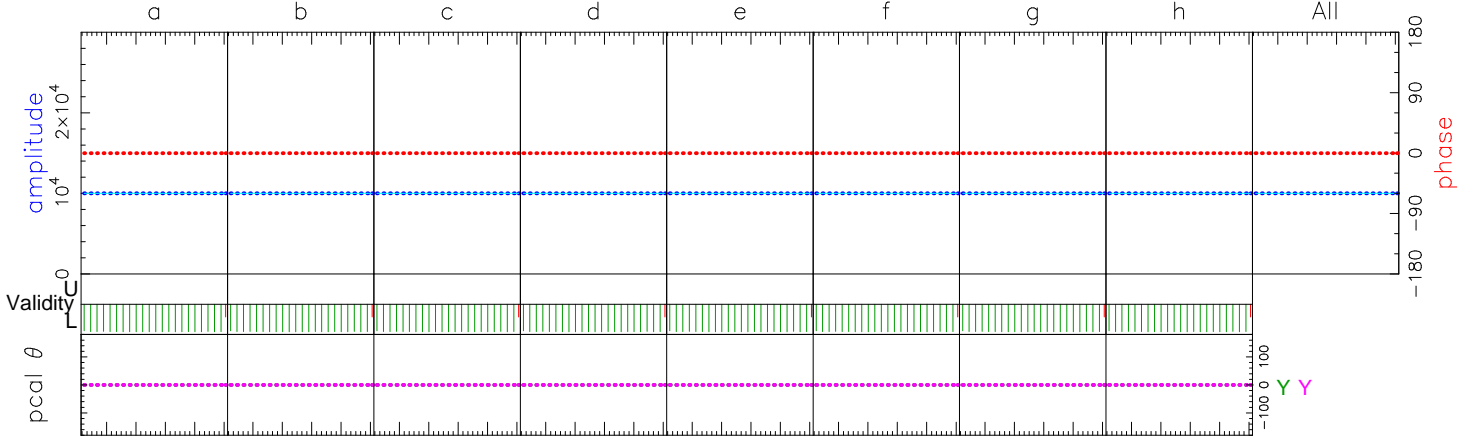


Fringe quality 9

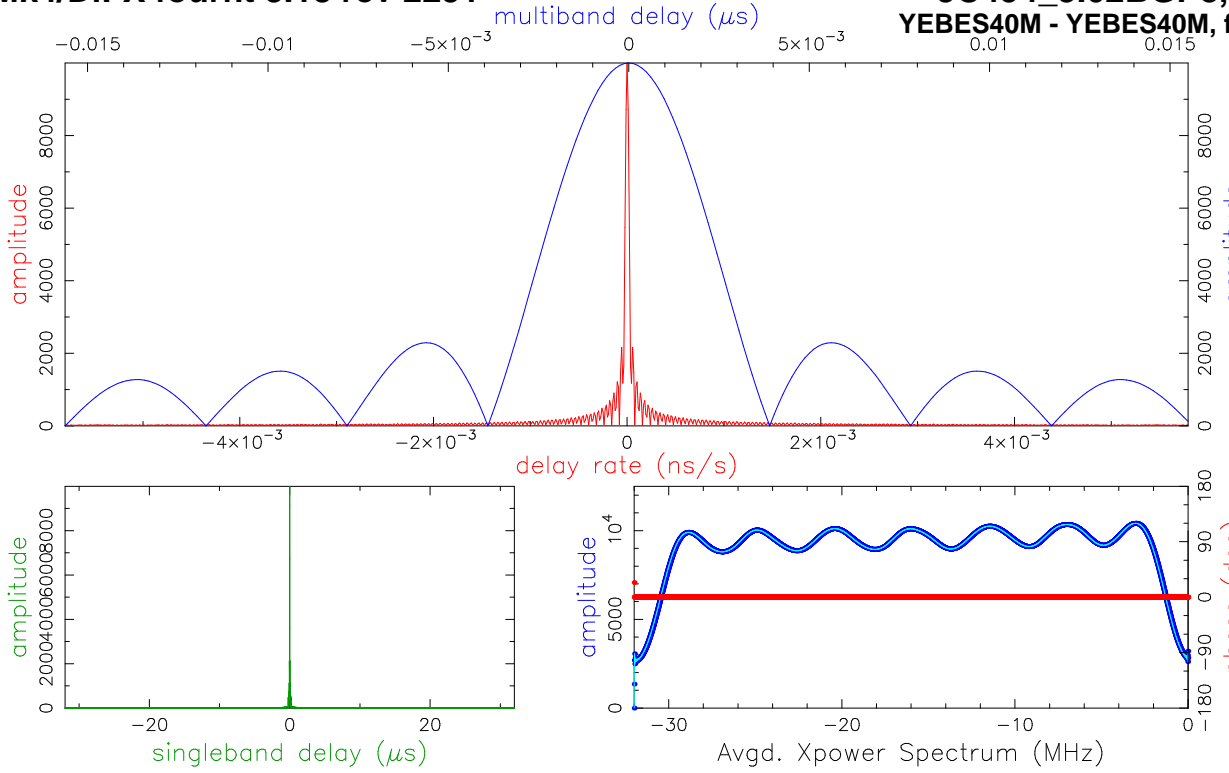
SNR 329549.6
Int time 290.453
Amp 9999.996
Phase 0.0
PFD 0.0e+00
Delays (us)
SBD 0.000000
MBD 0.000000
Fringe rate (Hz)
0.000000
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 1.000

Exp. f181a
Exper # 16383
Yr:day 2018:102
Start 120008.00
Stop 120500.00
FRT 120230.00
Corr/FF/build
2018:102:172416
2018:102:174219
2018:095:094034
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec

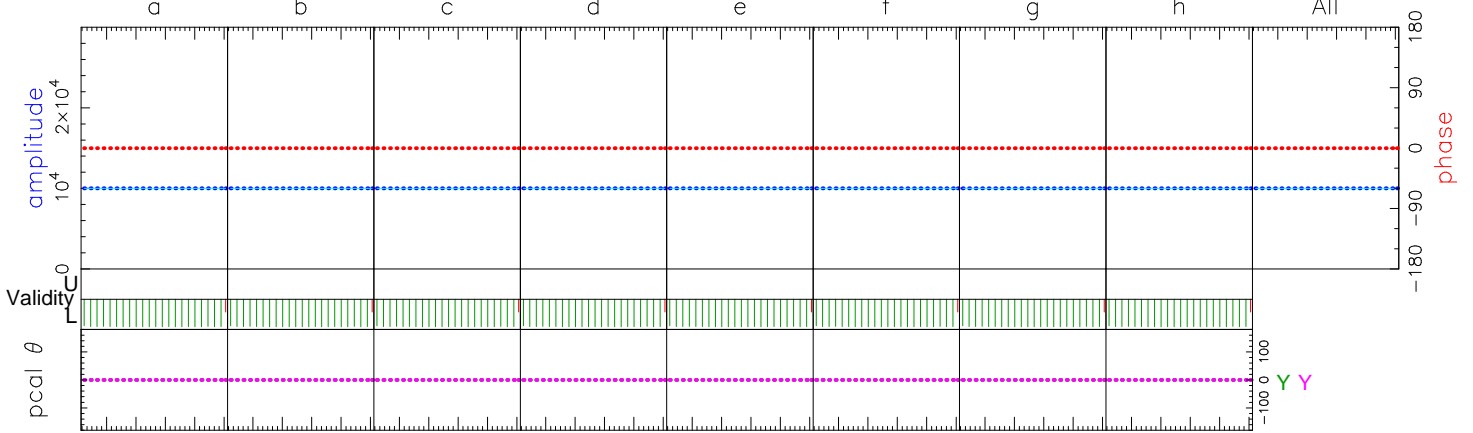


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	10000.0	10000.0	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Ampl.	4097.0	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Sbd box	4097.0	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used		
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC freqs		
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	PC phase		
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	ManI PC		
									PC amp		
									Chan ids		
									Tracks		
									Chan ids		
									Tracks		
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Apriori clock (usec)	0.0000000000E+00	
Phase delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000000E+00	
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	
Total phase (deg)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Apriori accel (us/s/s)	0.0000000000E+00	
	RMS	Theor.	Amplitude	9999.996 +/- 0.030	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5			Resid mbdelay (usec)	0.00000E+00	+/- 6.6E-09
ph/seg (deg)	0.0	0.0	Search (1024X32)	9999.997	Pcal rate: 0.000E+00, 0.000E+00 (us/s)				Resid sbdelay (usec)	0.00000E+00	+/- 5.2E-08
amp/seg (%)	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled			Resid phdelay (usec)	0.00000E+00	+/- 1.1E-11
ph/frq (deg)	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s): 64				Resid rate (us/s)	0.00000E+00	+/- 6.7E-14
amp/frq (%)	0.0	0.0	Inc. frq. avg.	9999.997	Data rate(Mb/s): 1024	nlags: 4096 t_cohere infinite			Resid phase (deg)	0.0	+/- 0.0
Y: az 240.3 el 52.0 pa 43.7			u,v (fr/asec) 0.000 0.000								
Control file: cf_1234			simultaneous interpolator								



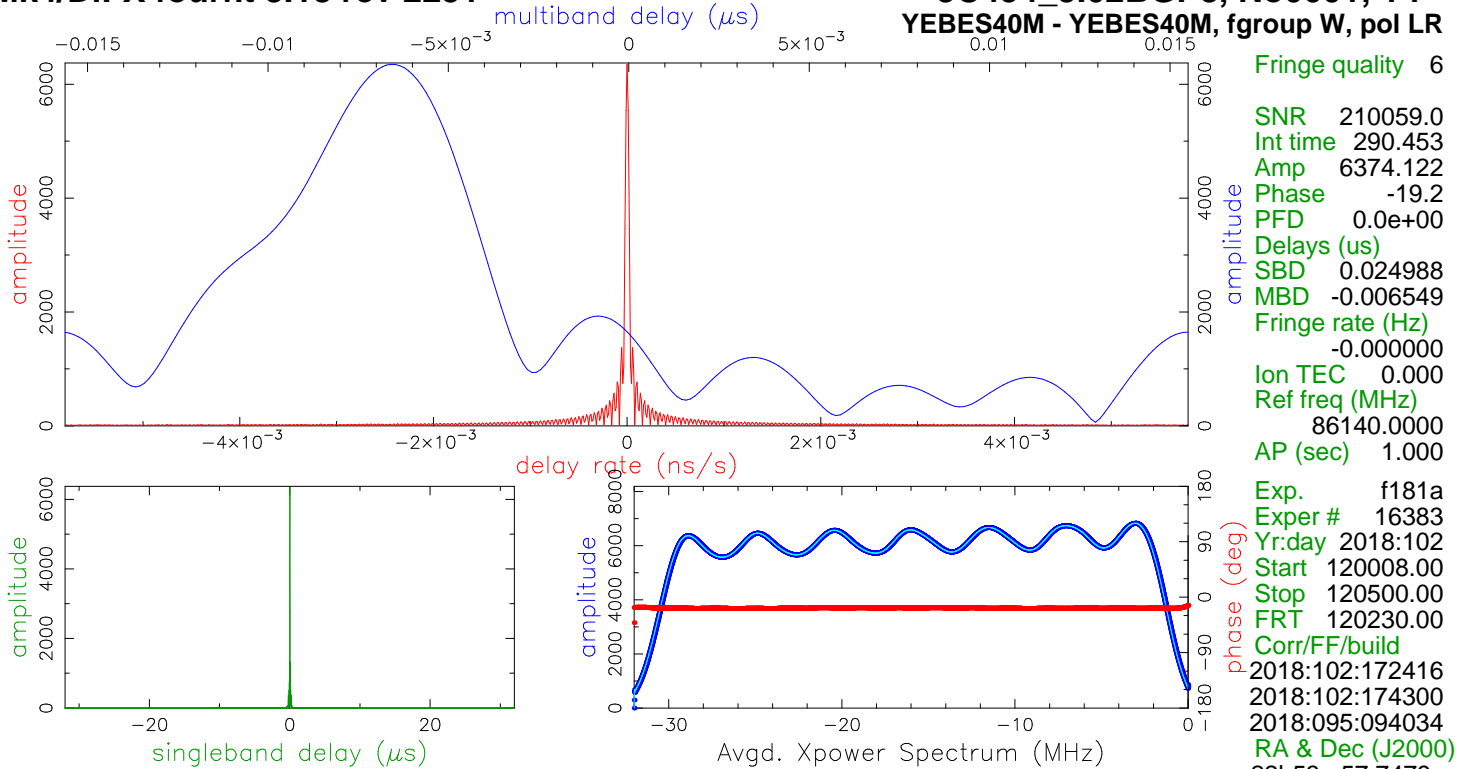
Fringe quality 9
 SNR 329549.6
 Int time 290.453
 Amp 9999.996
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.000
 Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120008.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:174239
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292		
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR		
Group delay (usec)(sbd)	0.0000000000E+00		Apriori delay (usec)		0.0000000000E+00		Resid mbdelay (usec)		0.00000E+00	+/- 6.6E-09
Sband delay (usec)	0.0000000000E+00		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		0.00000E+00	+/- 5.2E-08
Phase delay (usec)	0.0000000000E+00		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		0.00000E+00	+/- 1.1E-11
Delay rate (us/s)	0.0000000000E+00		Apriori rate (us/s)		0.0000000000E+00		Resid rate (us/s)		0.00000E+00	+/- 6.7E-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 0.0 RMS Theor. Amplitude 9999.996 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (1024X32) 9999.997 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006
 Y: az 240.3 el 52.0 pa 43.7 Y: az 240.3 el 52.0 pa 43.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/YY..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/YY.W.38.02BGP8



Fringe quality 6

SNR 210059.0

Int time 290.453

Amp 6374.122

Phase -19.2

PFD 0.0e+00

Delays (us)

SBD 0.024988

MBD -0.006549

Fringe rate (Hz)

-0.000000

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 1.000

Exp. f181a

Exper # 16383

Yr:day 2018:102

Start 120008.00

Stop 120500.00

FRT 120230.00

Corr/FF/build

2018:102:172416

2018:102:174300

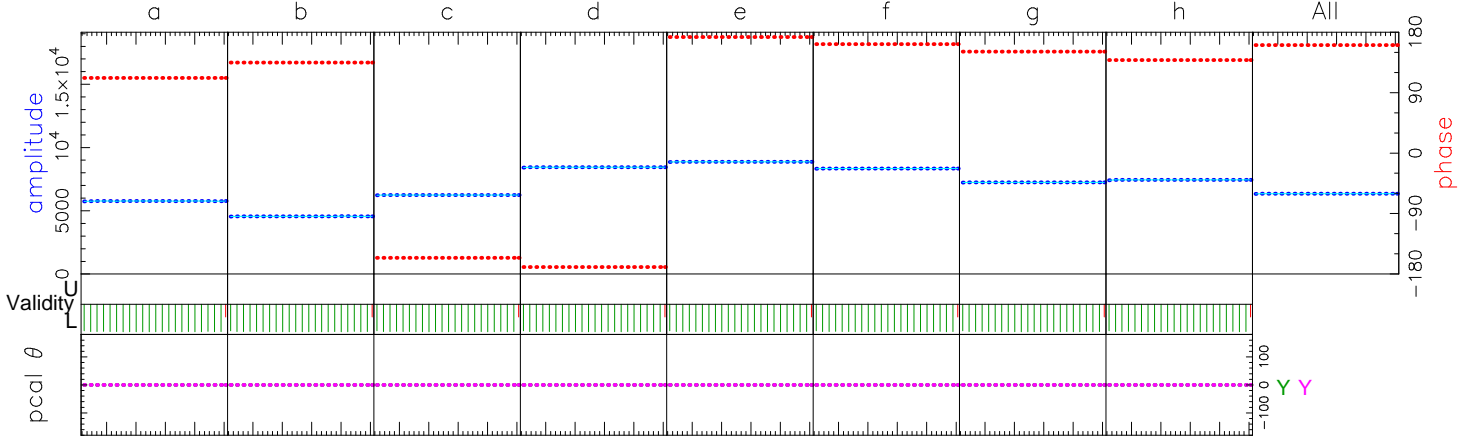
2018:095:094034

RA & Dec (J2000)

22h53m57.7479s

+16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	111.8	134.6	-155.9	-169.7	172.7	162.0	151.0	138.3	Phase	160.8
	5766.3	4565.2	6243.2	8443.5	8871.2	8338.3	7250.3	7443.2	Ampl.	7115.2
	4100.1	4100.9	4100.3	4099.9	4100.0	4100.1	4100.0	4100.1	Sbd box	4100.2
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	APs used	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	2.47011250000E-02		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		-6.54888E-03	+/- 1.0E-08
Sband delay (usec)	2.49875000000E-02		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		2.49875E-02	+/- 8.2E-08
Phase delay (usec)	5.18542124297E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		5.18542E-06	+/- 1.8E-11
Delay rate (us/s)	-4.35337822150E-12		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		-4.35338E-12	+/- 1.0E-13
Total phase (deg)			Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		-19.2	+/- 0.0

RMS Theor. Amplitude 6374.122 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 0.0 0.0 Search (1024X32) 6307.348 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000

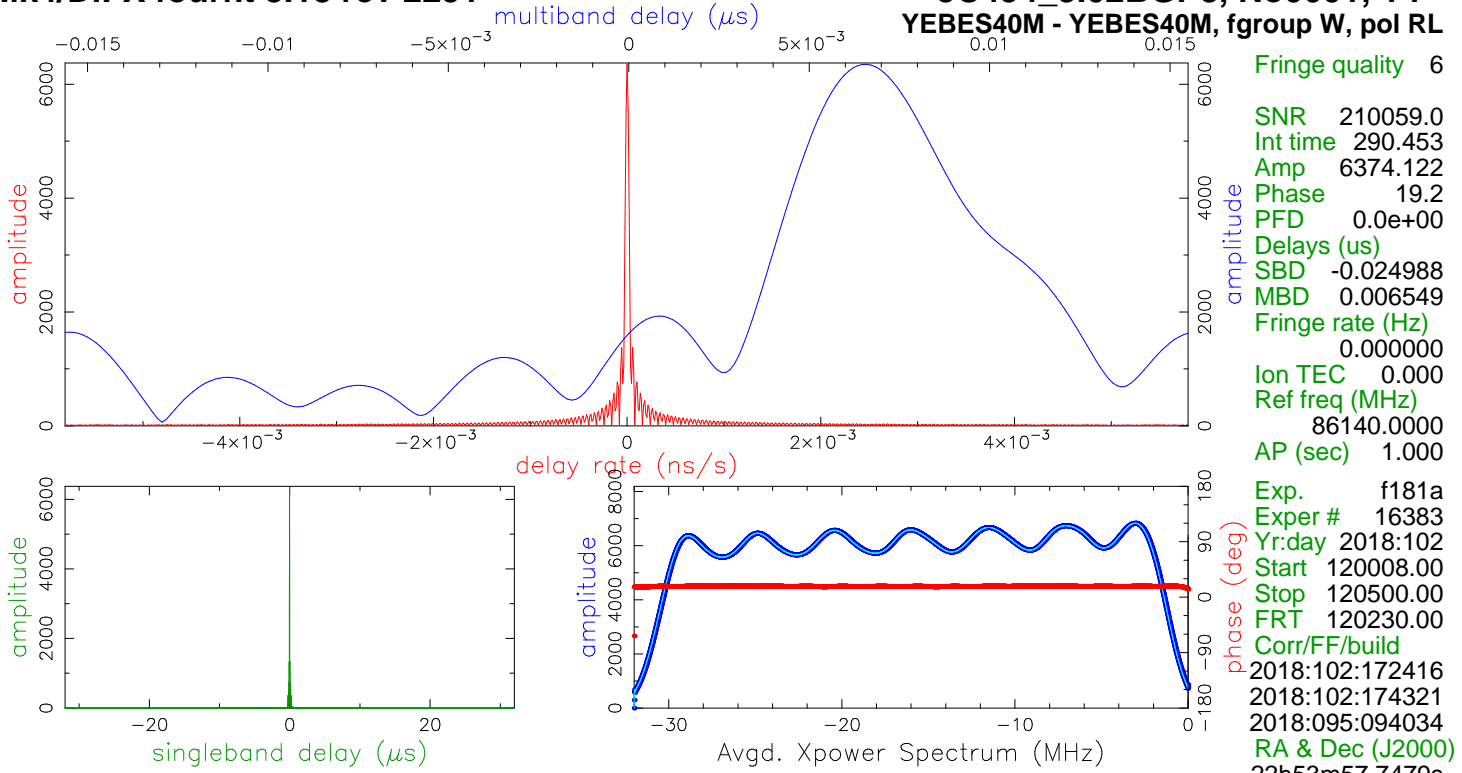
amp/seg (%) 0.4 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

ph/frq (deg) 33.1 0.0 Inc. seg. avg. 6351.756 Sample rate(MSamp/s): 64 dr window (ns/s) -0.006 0.006

amp/frq (%) 24.8 0.0 Inc. frq. avg. 7115.152 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite ion window (TEC) 0.00 0.00

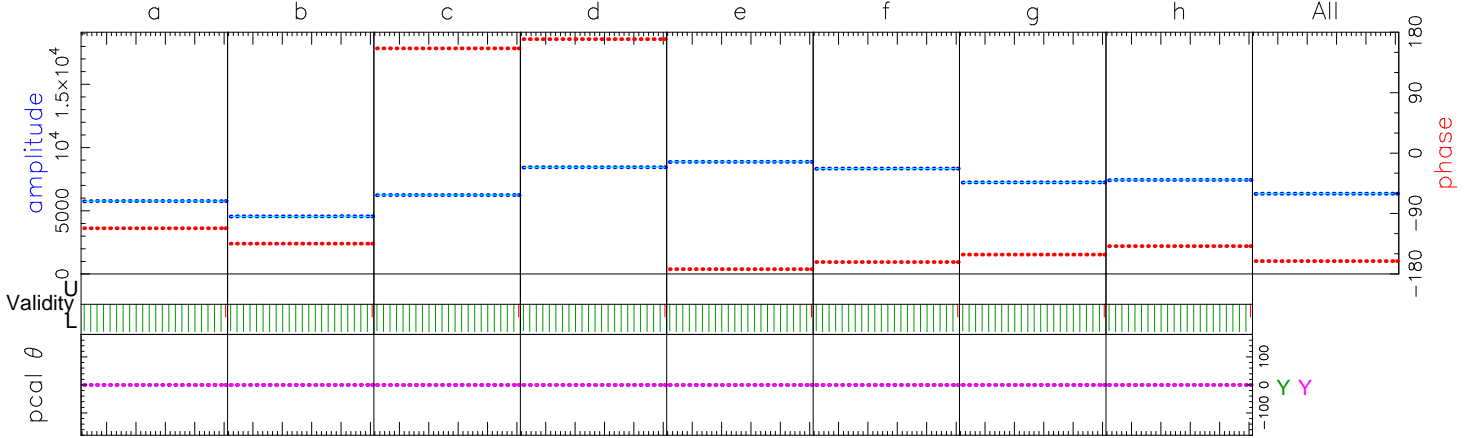
Y: az 240.3 el 52.0 pa 43.7 Y: az 240.3 el 52.0 pa 43.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/YY..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/YY.W.39.02BGP8



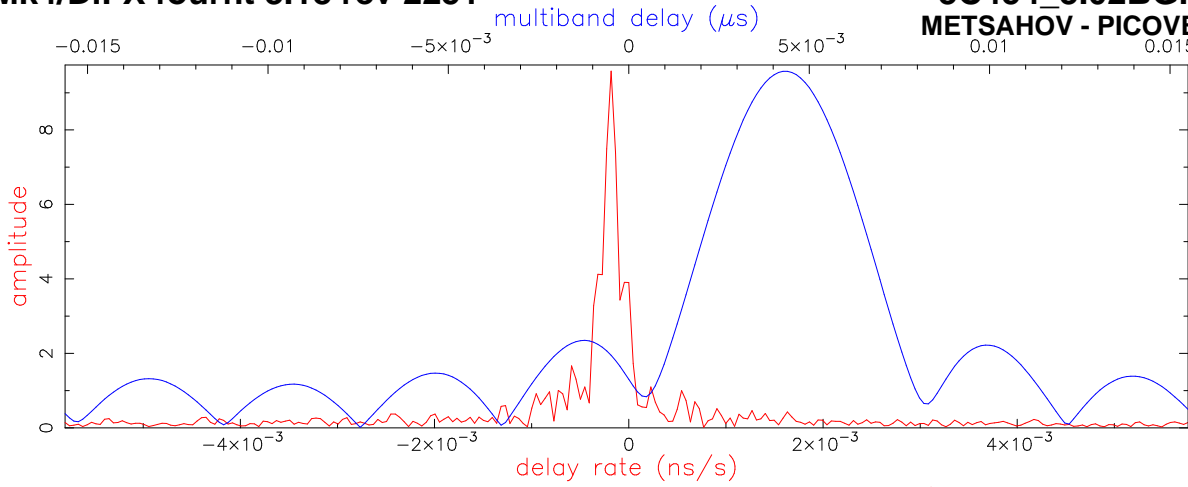
Fringe quality 6
 SNR 210059.0
 Int time 290.453
 Amp 6374.122
 Phase 19.2
 PFD 0.0e+00
 Delays (us)
 SBD -0.024988
 MBD 0.006549
 Fringe rate (Hz) 0.000000
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 1.000
 Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120008.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:174321
 2018:095:094034
 RA & Dec (J2000) 22h53m57.7479s +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-111.8	-134.6	155.9	169.7	-172.7	-162.0	-151.0	-138.3	Phase	-160.8
	5766.3	4565.2	6243.2	8443.5	8871.2	8338.3	7250.3	7443.2	Ampl.	7115.2
	4093.9	4093.1	4093.7	4094.1	4094.0	4093.9	4094.0	4093.9	Sbd box	4093.8
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	APs used	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-2.47011250000E-02		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		6.54888E-03	+/- 1.0E-08
Sband delay (usec)	-2.49875000000E-02		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		-2.49875E-02	+/- 8.2E-08
Phase delay (usec)	-5.18542124299E-06		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-5.18542E-06	+/- 1.8E-11
Delay rate (us/s)	4.35337822150E-12		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		4.35338E-12	+/- 1.0E-13
Total phase (deg)	19.2		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		19.2	+/- 0.0

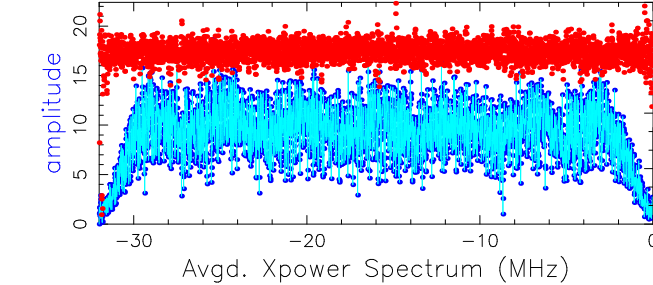
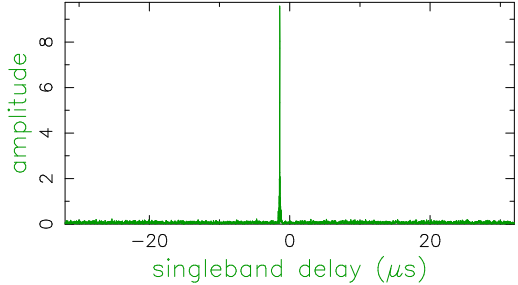
RMS Theor. Amplitude 6374.122 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (1024X32) 6307.348 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 0.4 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 33.1 0.0 Inc. seg. avg. 6351.756 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006
 amp/frq (%) 24.8 0.0 Inc. frq. avg. 7115.152 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite ion window (TEC) 0.00 0.00



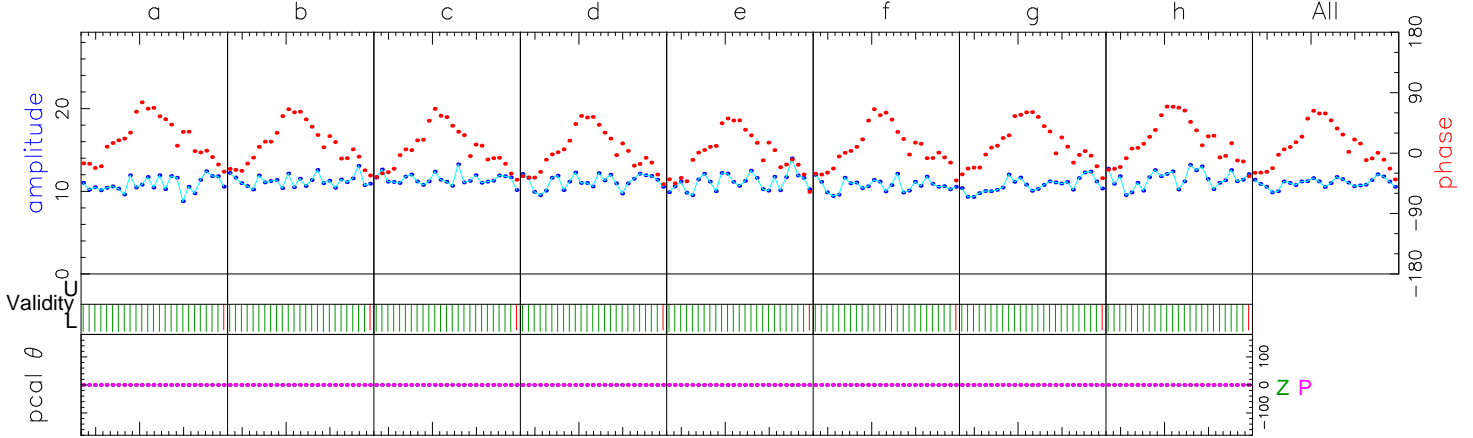
Fringe quality 7

SNR 187.0
 Int time 98.545
 Amp 9.746
 Phase 189.5
 PFD 0.0e+00
 Delays (us)
 SBD -1.417453
 MBD 0.004342
 Fringe rate (Hz)
 -0.013892
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.000

Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120320.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:174349
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"



Amp. and Phase vs. time for each freq., 25 segs, 4 APs / seg (4.00 sec / seg.), time ticks 5 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/100	0/100	0/100	0/100	0/100	0/100	0/100	0/100		
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000		
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL		
Group delay (usec)(sbd)	-7.15078807281E+03								4.34191E-03	+/- 1.2E-05
Sband delay (usec)	-7.15080361772E+03								-1.41745E+00	+/- 9.2E-05
Phase delay (usec)	-7.14938616442E+03								3.05025E-07	+/- 2.0E-08
Delay rate (us/s)	1.39591582671E-02								-1.61275E-07	+/- 3.4E-10
Total phase (deg)			106.9						189.5	+/- 0.6
Apriori delay (usec)										
Apriori clock (usec)										
Apriori clockrate (us/s)										
Apriori rate (us/s)										
Apriori accel (us/s/s)										
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)										
Pcal mode:	MANUAL	MANUAL								
Pcal rate:	0.000E+00	0.000E+00								
PC period (AP's)	5	5								
sb window (us)										
mb window (us)										
dr window (ns/s)										
ion window (TEC)										
nlags:	4096	t_cohere	infinite							

ph/seg (deg) 30.1 1.5
 amp/seg (%) 14.2 2.7
 ph/frq (deg) 7.2 0.9
 amp/frq (%) 2.6 1.5

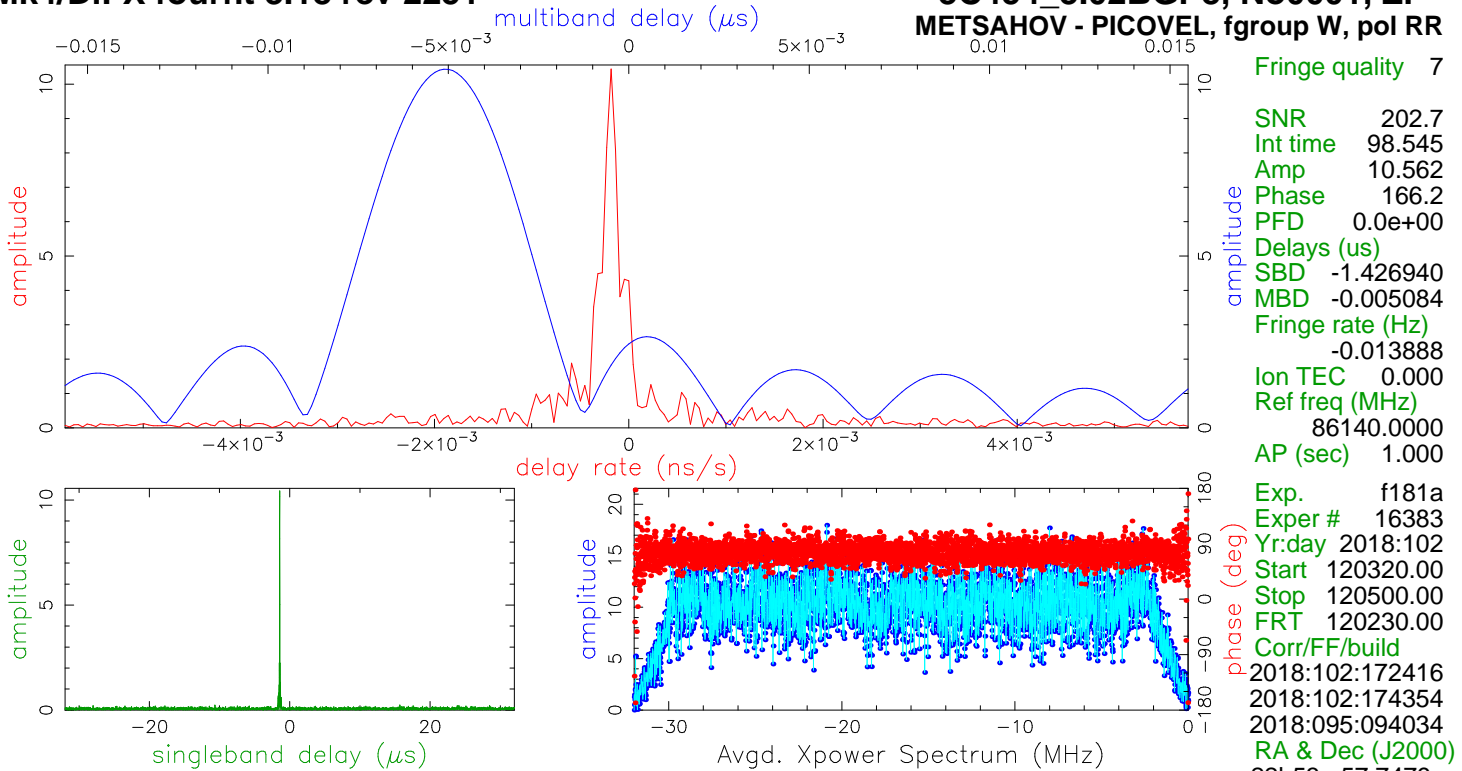
Search (256X32) 8.939
 Interp. 0.000
 Inc. seg. avg. 11.031
 Inc. frq. avg. 9.638

u,v (fr/asec) -40.264 3318.854

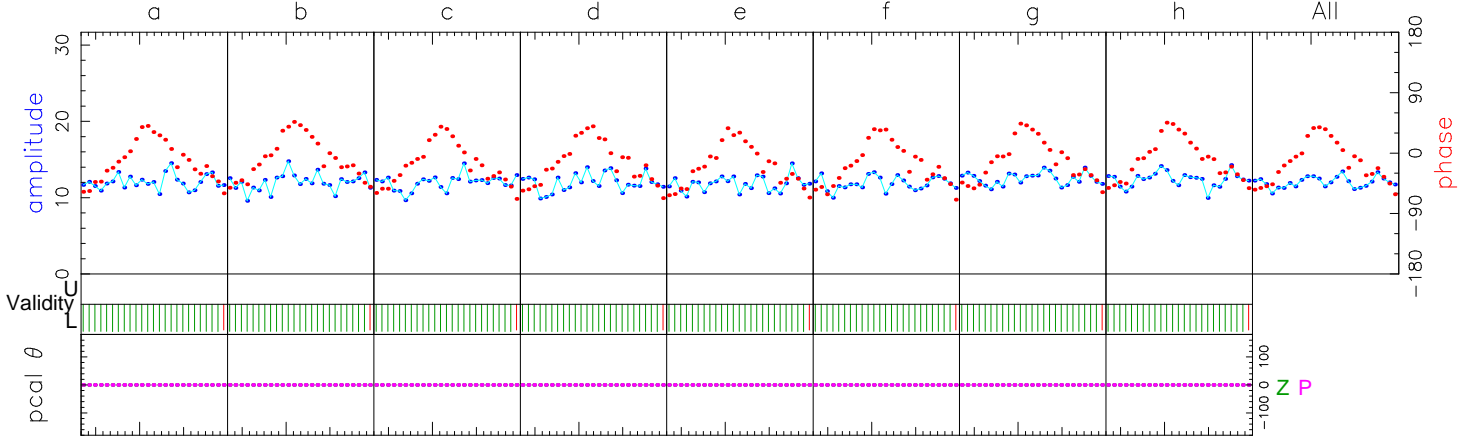
Z: az 252.8 el 28.1 pa 29.7
 P: az 244.0 el 53.8 pa 48.5

simultaneous interpolator

Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/ZP..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/ZP.W.45.02BGP8

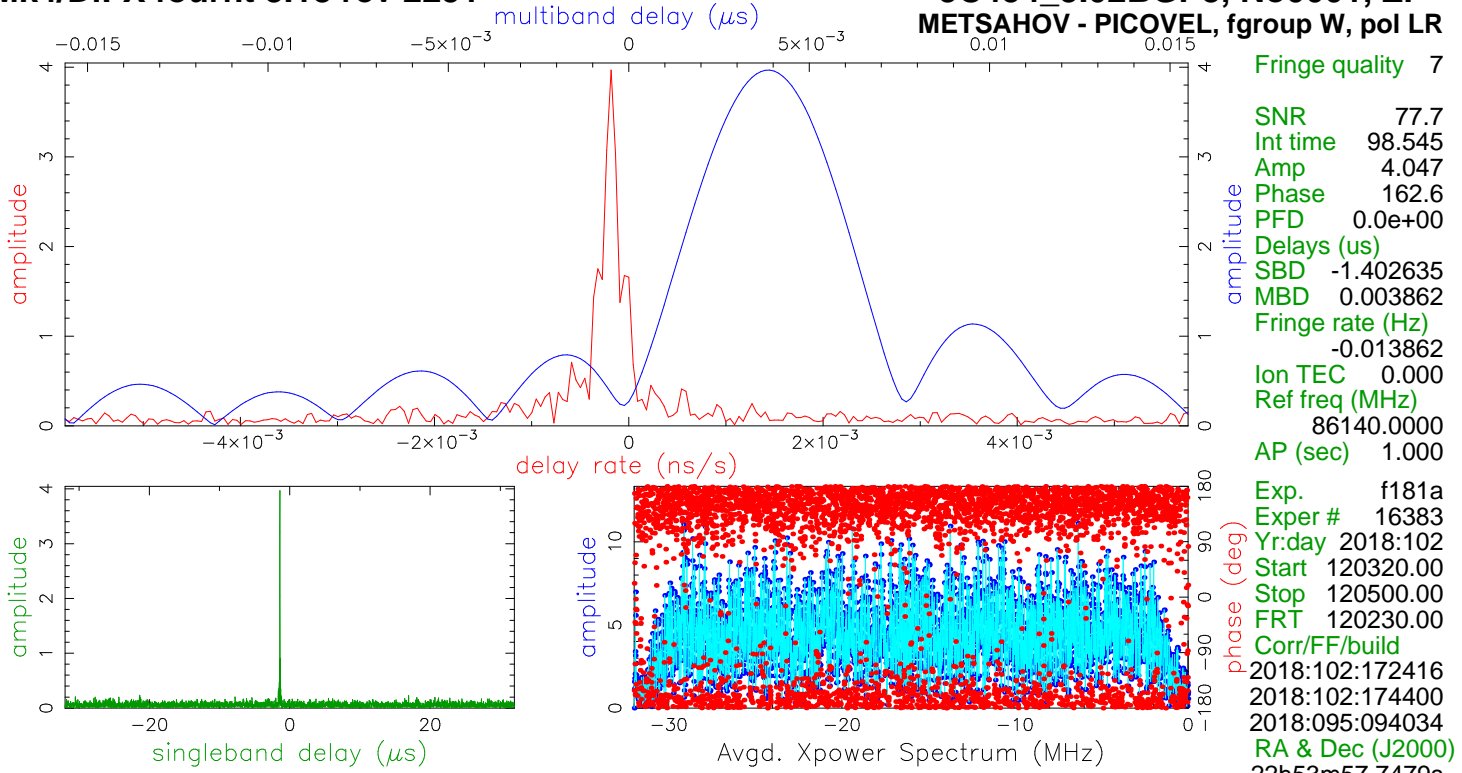


Amp. and Phase vs. time for each freq., 25 segs, 4 APs / seg (4.00 sec / seg.), time ticks 5 sec



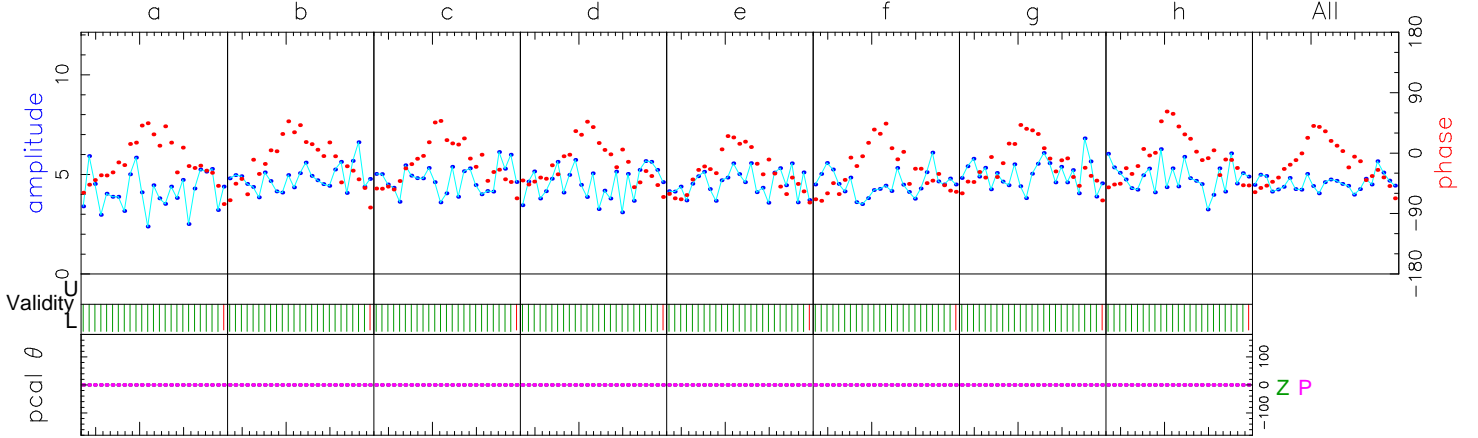
86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-12.9	-7.3	-17.9	-14.4	-20.0	-17.1	-11.7	-9.3	Phase	-13.8
10.5	10.4	10.4	10.3	10.3	10.3	10.8	10.8	Ampl.	10.5
3914.4	3914.3	3914.4	3914.3	3914.3	3914.6	3914.2	3914.3	Sbd box	3914.4
U/L	0/100	0/100	0/100	0/100	0/100	0/100	0/100	APs used	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
Z	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000		
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	Chan ids	
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-7.15079749850E+03		Apriori delay (usec)	-7.14938616472E+03		Resid mbdelay (usec)	-5.08378E-03	+/-	1.1E-05
Sband delay (usec)	-7.15081310472E+03		Apriori clock (usec)	1.8080156E+00		Resid sbdelay (usec)	-1.42694E+00	+/-	8.5E-05
Phase delay (usec)	-7.14938616517E+03		Apriori clockrate (us/s)	1.0400000E-07		Resid phdelay (usec)	-4.44569E-07	+/-	1.8E-08
Delay rate (us/s)	1.39591583135E-02		Apriori rate (us/s)	1.39593195423E-02		Resid rate (us/s)	-1.61229E-07	+/-	3.2E-10
Total phase (deg)		83.7	Apriori accel (us/s/s)	4.63985831195E-05		Resid phase (deg)	166.2	+/-	0.6

ph/seg (deg) 30.1 1.4 Theor. Amplitude 10.562 +/- 0.052 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 15.5 2.5 Search (256X32) 9.878 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 4.7 0.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 2.1 1.4 Inc. seg. avg. 12.038 Sample rate(MSamp/s): 64 dr window (ns/s) -0.006 0.006
 Z: az 252.8 el 28.1 pa 29.7 P: az 244.0 el 53.8 pa 48.5 u.v (fr/asec) -40.264 3318.854 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite ion window (TEC) 0.00 0.00
 Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/ZP..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/ZP.W.46.02BGP8 simultaneous interpolator



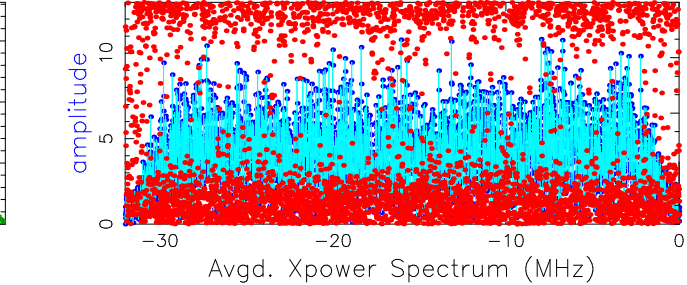
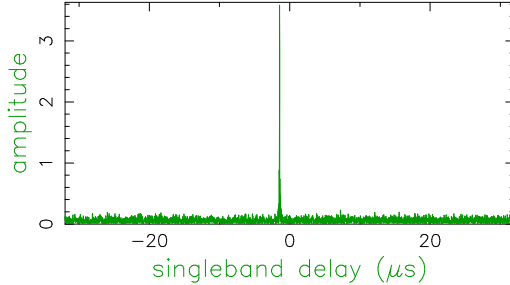
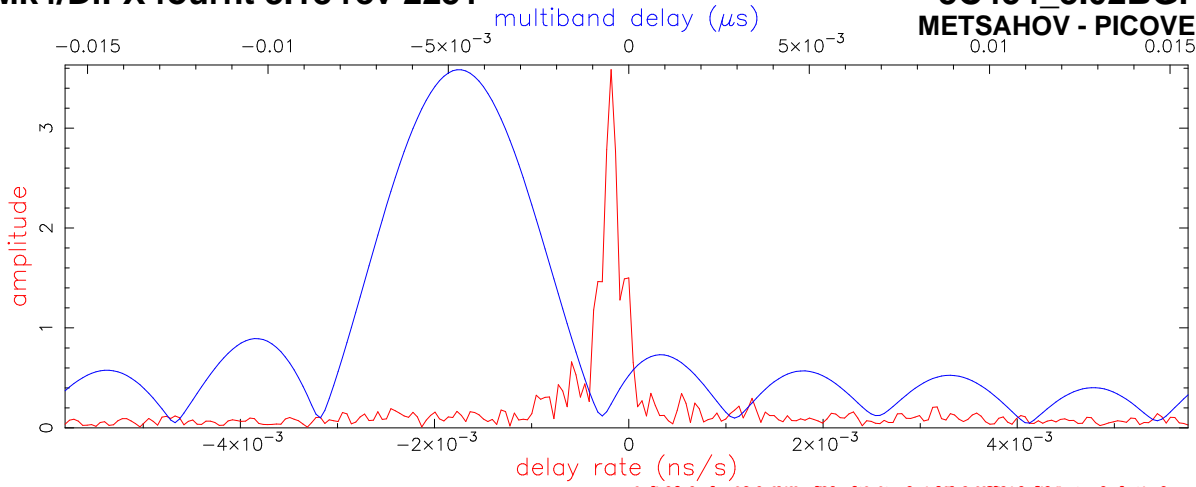
Fringe quality 7
 SNR 77.7
 Int time 98.545
 Amp 4.047
 Phase 162.6
 PFD 0.0e+00
 Delays (us)
 SBD -1.402635
 MBD 0.003862
 Fringe rate (Hz)
 -0.013862
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.000
 Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120320.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:174400
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 25 segs, 4 APs / seg (4.00 sec / seg.), time ticks 5 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/100	0/100	0/100	0/100	0/100	0/100	0/100	0/100	APs used	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
P	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-7.15078855231E+03								Resid mbdelay (usec)	3.86241E-03 +/- 2.8E-05
Sband delay (usec)	-7.15078879922E+03								Resid sbdelay (usec)	-1.40263E+00 +/- 2.2E-04
Phase delay (usec)	-7.14938616528E+03								Resid phdelay (usec)	-5.60305E-07 +/- 4.8E-08
Delay rate (us/s)	1.39591586182E-02								Resid rate (us/s)	-1.60924E-07 +/- 8.2E-10
Total phase (deg)			80.1						Resid phase (deg)	162.6 +/- 1.5
	RMS	Theor.	Amplitude	4.047 +/- 0.052					Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	30.4	3.7	Search (256X32)	3.762					Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -32.000 32.000
amp/seg (%)	16.0	6.4	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	7.6	2.1	Inc. seg. avg.	4.566					Sample rate(MSamp/s): 64	mb window (us) -0.016 0.016
amp/frq (%)	5.4	3.6	Inc. frq. avg.	3.993					Data rate(Mb/s): 1024	dr window (ns/s) -0.006 0.006
									nlags: 4096 t_cohere infinite	ion window (TEC) 0.00 0.00

Z: az 252.8 el 28.1 pa 29.7 P: az 244.0 el 53.8 pa 48.5 u,v (fr/asec) -40.264 3318.854 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/ZP..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/ZP.W.47.02BGP8



Fringe quality 7

SNR 69.7

Int time 98.545

Amp 3.632

Phase 203.3

PFD 0.0e+00

Delays (us)

SBD -1.442388

MBD -0.004720

Fringe rate (Hz)

-0.013967

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 1.000

Exp. f181a

Exper # 16383

Yr:day 2018:102

Start 120320.00

Stop 120500.00

FRT 120230.00

Corr/FF/build

2018:102:172416

2018:102:174405

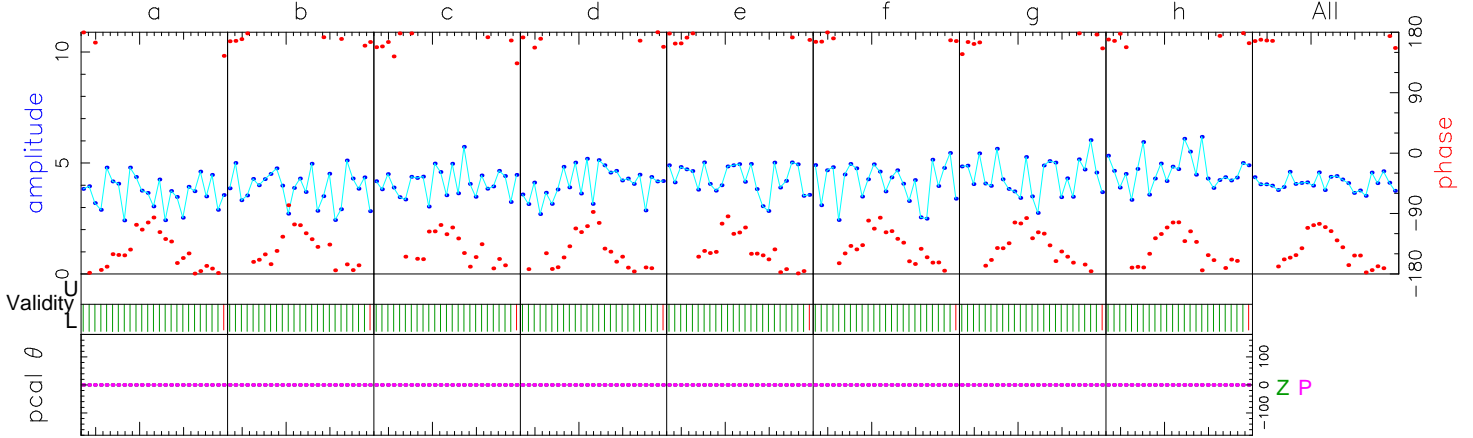
2018:095:094034

RA & Dec (J2000)

22h53m57.7479s

+16°08'53.561"

Amp. and Phase vs. time for each freq., 25 segs, 4 APs / seg (4.00 sec / seg.), time ticks 5 sec



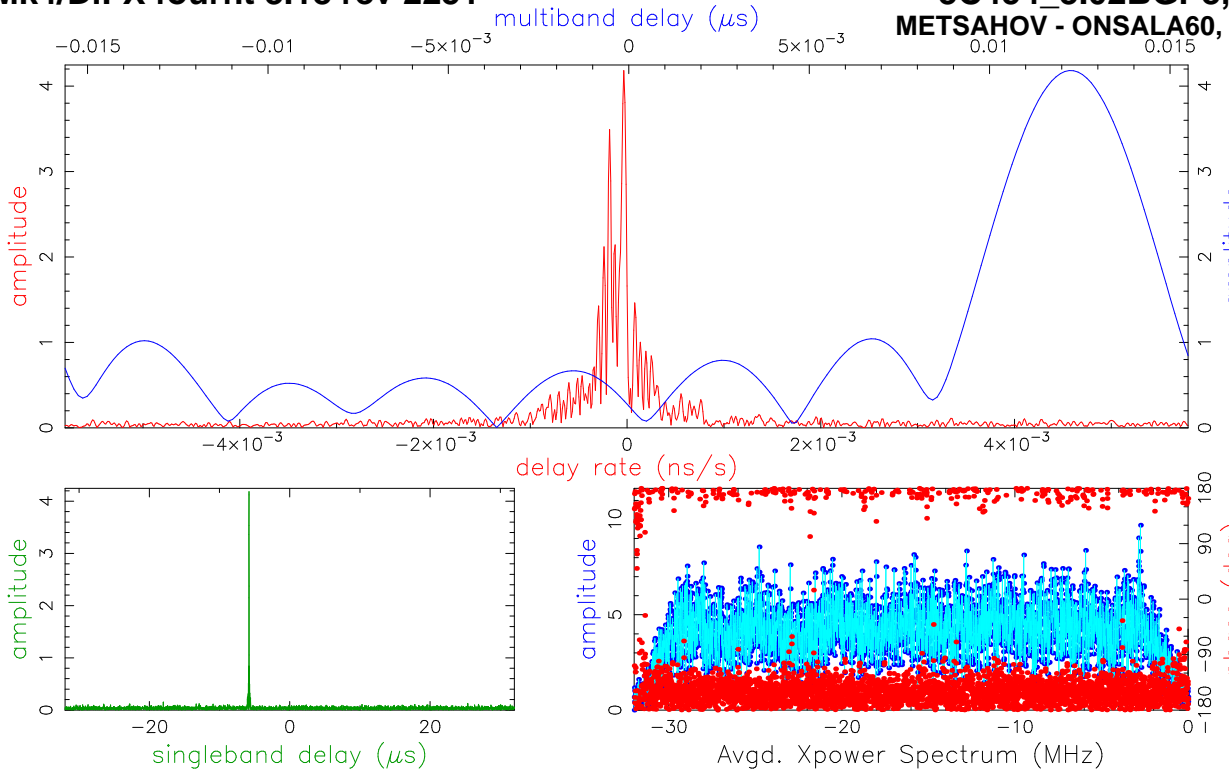
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-154.2	-158.0	-161.4	-156.6	-157.4	-152.1	-157.4	-156.7	Phase	-156.7
	3.2	3.4	3.5	3.5	3.7	3.6	3.7	4.0	Ampl.	3.6
	3912.8	3912.1	3912.5	3912.1	3912.4	3912.5	3912.1	3912.4	Sbd box	3912.4
U/L	0/100	0/100	0/100	0/100	0/100	0/100	0/100	0/100	APs used	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
P	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
P	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	

Group delay (usec)(sbd)	-7.15082838450E+03	Apriori delay (usec)	-7.14938616472E+03	Resid mbdelay (usec)	-4.71978E-03	+/-	3.1E-05
Sband delay (usec)	-7.15082855272E+03	Apriori clock (usec)	1.8080156E+00	Resid sbdelay (usec)	-1.44239E+00	+/-	2.5E-04
Phase delay (usec)	-7.14938616978E+03	Apriori clockrate (us/s)	1.0400000E-07	Resid phdelay (usec)	-5.05401E-06	+/-	5.3E-08
Delay rate (us/s)	1.39591573993E-02	Apriori rate (us/s)	1.39593195423E-02	Resid rate (us/s)	-1.62143E-07	+/-	9.2E-10
Total phase (deg)	120.7	Apriori accel (us/s/s)	4.63985831195E-05	Resid phase (deg)	203.3	+/-	1.6

ph/seg (deg)	29.5	Theor.	4.1	Amplitude	3.632 +/- 0.052	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	15.5	Search (256X32)	3.408	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000	32.000		
ph/frq (deg)	2.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.016	0.016
amp/frq (%)	6.7	Inc. seg. avg.	4.097	Sample rate(MSamp/s):	64	dr window (ns/s)	-0.006	0.006		
		Inc. frq. avg.	3.587	Data rate(Mb/s):	1024	ion window (TEC)	0.00	0.00		

Z: az 252.8 el 28.1 pa 29.7 P: az 244.0 el 53.8 pa 48.5 u,v (fr/asec) -40.264 3318.854 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/ZP..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/ZP.W.48.02BGP8

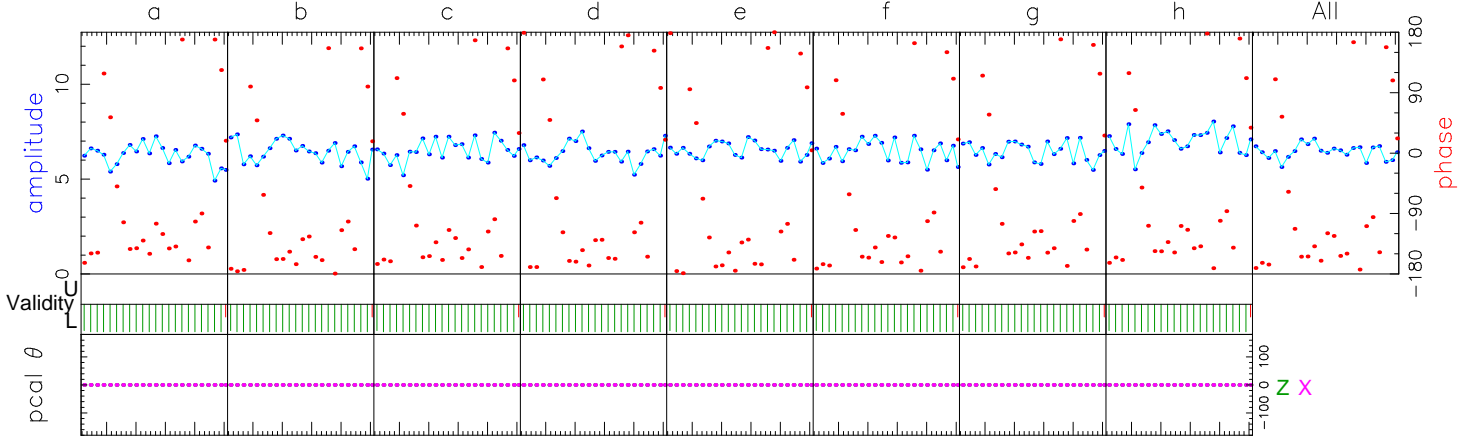


Fringe quality 5

SNR 140.2
Int time 291.445
Amp 4.247
Phase 205.9
PFD 0.0e+00
Delays (us)
SBD -5.800124
MBD 0.012254
Fringe rate (Hz)
-0.002732
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 1.000

Exp. f181a
Exper # 16383
Yr:day 2018:102
Start 120008.00
Stop 120500.00
FRT 120230.00
Corr/FF/build
2018:102:172416
2018:102:173641
2018:095:094034
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

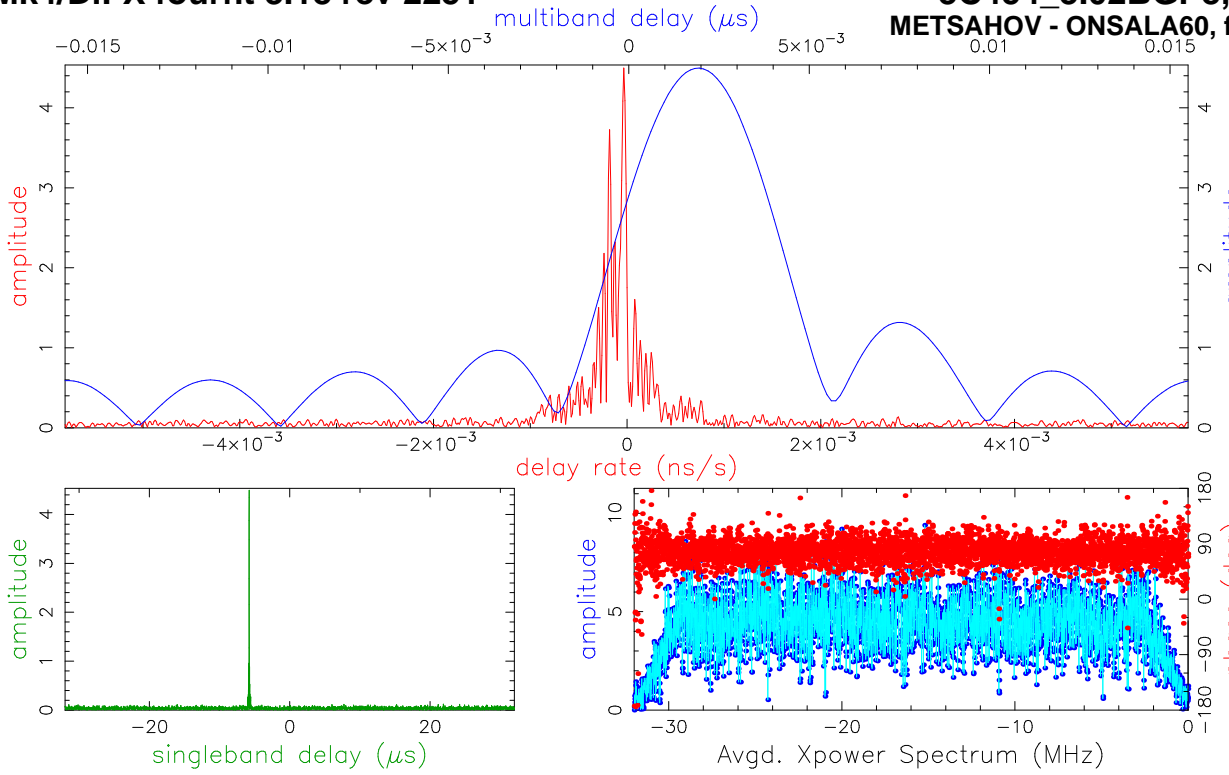
Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
	-141.3	-158.6	-152.5	-162.0	-165.4	-157.1	-150.2	-146.6	Phase	-154.1	
	4.2	4.2	4.2	4.1	4.2	4.1	4.1	4.6	Ampl.	4.2	
	3354.5	3354.5	3354.6	3354.4	3354.6	3355.0	3354.4	3354.7	Sbd box	3354.6	
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	APs used		
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
Z:X	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	PC amp		
X	1000	1000	1000	1000	1000	1000	1000	1000			
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids		
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks		
									Chan ids		
									Tracks		
Group delay (usec)(sbd)	-2.24435076740E+03		Apriori delay (usec)		-2.23855052140E+03		Resid mbdelay (usec)		1.22540E-02	+/- 1.5E-05	
Sband delay (usec)	-2.24435064490E+03		Apriori clock (usec)		-5.9850416E+00		Resid sbdelay (usec)		-5.80012E+00	+/- 1.2E-04	
Phase delay (usec)	-2.23855052637E+03		Apriori clockrate (us/s)		-2.7899999E-07		Resid phdelay (usec)		-4.96962E-06	+/- 2.6E-08	
Delay rate (us/s)	-4.29968501386E-02		Apriori rate (us/s)		-4.29968184250E-02		Resid rate (us/s)		-3.17136E-08	+/- 1.6E-10	
Total phase (deg)	237.1		Apriori accel (us/s/s)		1.26792658649E-05		Resid phase (deg)		205.9	+/- 0.8	
	RMS	Theor.	Amplitude	4.247 +/- 0.030		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	59.7	2.0	Search (1024X32)	4.076		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-32.000	32.000	
amp/seg (%)	52.5	3.4	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016	0.016
ph/frq (deg)	8.7	1.2	Inc. seg. avg.	6.444		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.006	0.006	
amp/frq (%)	3.5	2.0	Inc. frq. avg.	4.218		Data rate(Mb/s): 1024		nlags: 4096 t_cohere infinite	ion window (TEC)	0.00	0.00

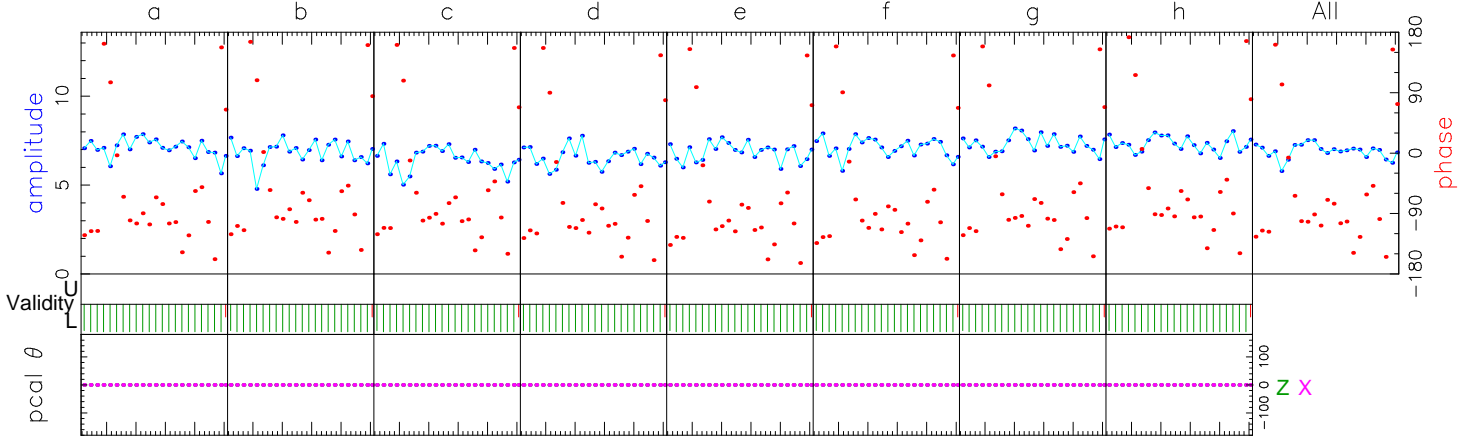
Z: az 252.8 el 28.1 pa 29.7 X: az 242.2 el 35.2 pa 29.9 u,v (fr/asec) 267.995 506.923 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/ZX..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/ZX.W.21.02BGP8



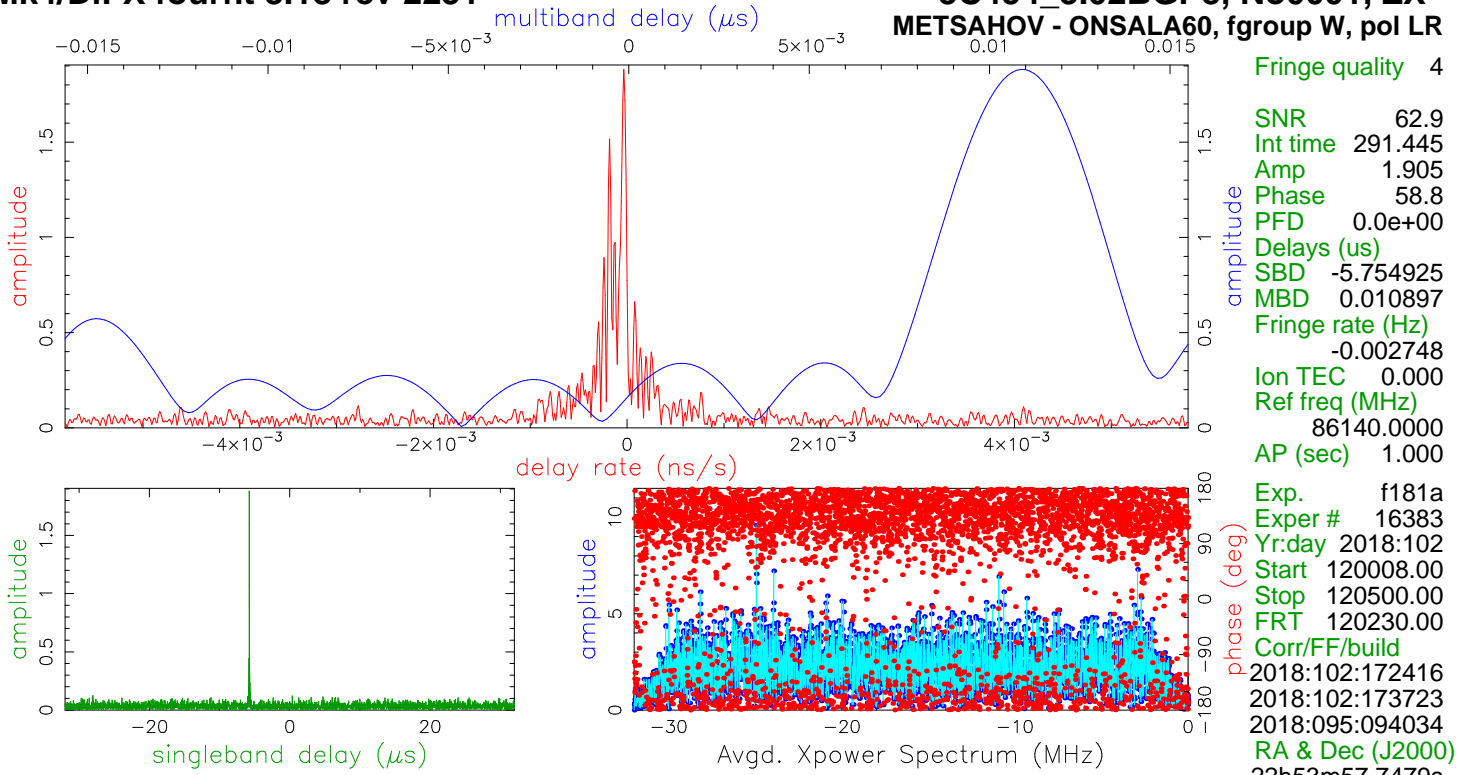
Fringe quality 5
 SNR 149.7
 Int time 291.445
 Amp 4.535
 Phase 75.0
 PFD 0.0e+00
 Delays (us)
 SBD -5.778817
 MBD 0.001918
 Fringe rate (Hz) -0.002706
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 1.000
 Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120008.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:173702
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



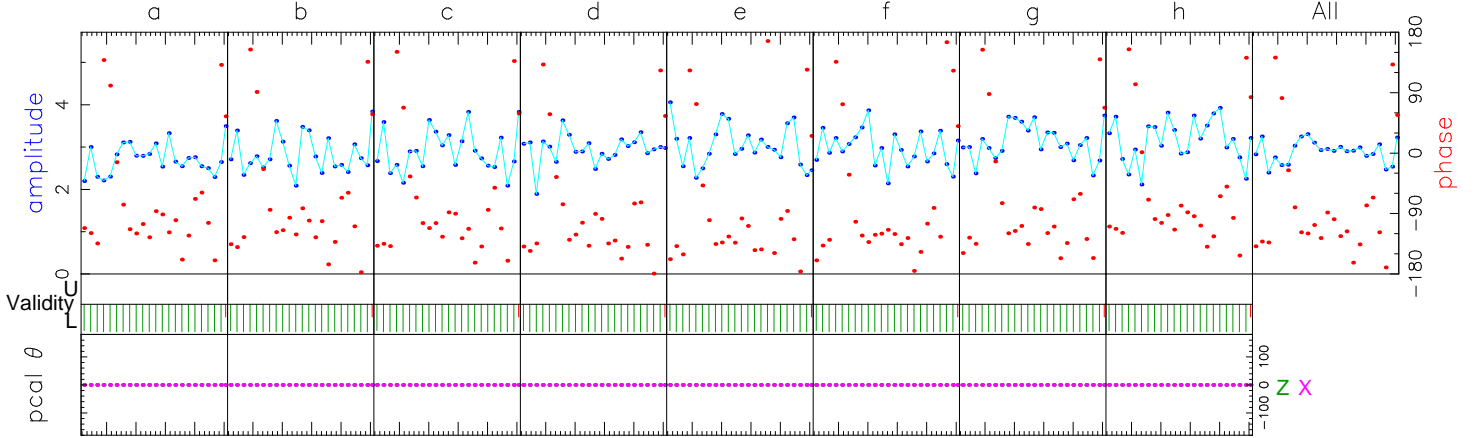
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
	-103.9	-100.0	-101.7	-110.6	-114.9	-110.2	-102.5	-96.9	Phase	-105.0	
	4.6	4.5	4.2	4.3	4.4	4.7	4.7	4.7	Ampl.	4.5	
	3357.4	3357.4	3357.2	3357.1	3357.3	3357.5	3357.2	3357.4	Sbd box	3357.3	
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	APs used		
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
Z:X	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	PC amp		
X	1000	1000	1000	1000	1000	1000	1000	1000			
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids		
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks		
									Chan ids		
									Tracks		
Group delay (usec)(sbd)	-2.24432985352E+03		Apriori delay (usec)		-2.23855052140E+03		Resid mbdelay (usec)		1.91788E-03	+/- 1.4E-05	
Sband delay (usec)	-2.24432933840E+03		Apriori clock (usec)		-5.9850416E+00		Resid sbdelay (usec)		-5.77882E+00	+/- 1.2E-04	
Phase delay (usec)	-2.23855052479E+03		Apriori clockrate (us/s)		-2.7899999E-07		Resid phdelay (usec)		-3.38706E-06	+/- 2.5E-08	
Delay rate (us/s)	-4.29968498433E-02		Apriori rate (us/s)		-4.29968184250E-02		Resid rate (us/s)		-3.14183E-08	+/- 1.5E-10	
Total phase (deg)	106.2		Apriori accel (us/s/s)		1.26792658649E-05		Resid phase (deg)		75.0	+/- 0.8	
RMS	Theor.	Amplitude	4.535 +/- 0.030		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
ph/seg (deg)	60.1	1.8	Search (1024X32)		4.472		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)	-32.000 32.000	
amp/seg (%)	52.9	3.2	Interp.		0.000		Bits/sample: 2x2		SampCntNorm: enabled	mb window (us)	-0.016 0.016
ph/frq (deg)	6.6	1.1	Inc. seg. avg.		6.898		Sample rate(MSamp/s): 64		dr window (ns/s)	-0.006 0.006	
amp/frq (%)	3.8	1.9	Inc. frq. avg.		4.518		Data rate(Mb/s): 1024		nlags: 4096 t_cohere infinite	ion window (TEC)	0.00 0.00

Z: az 252.8 el 28.1 pa 29.7 X: az 242.2 el 35.2 pa 29.9 u,v (fr/asec) 267.995 506.923 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/ZX..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/ZX.W.22.02BGP8



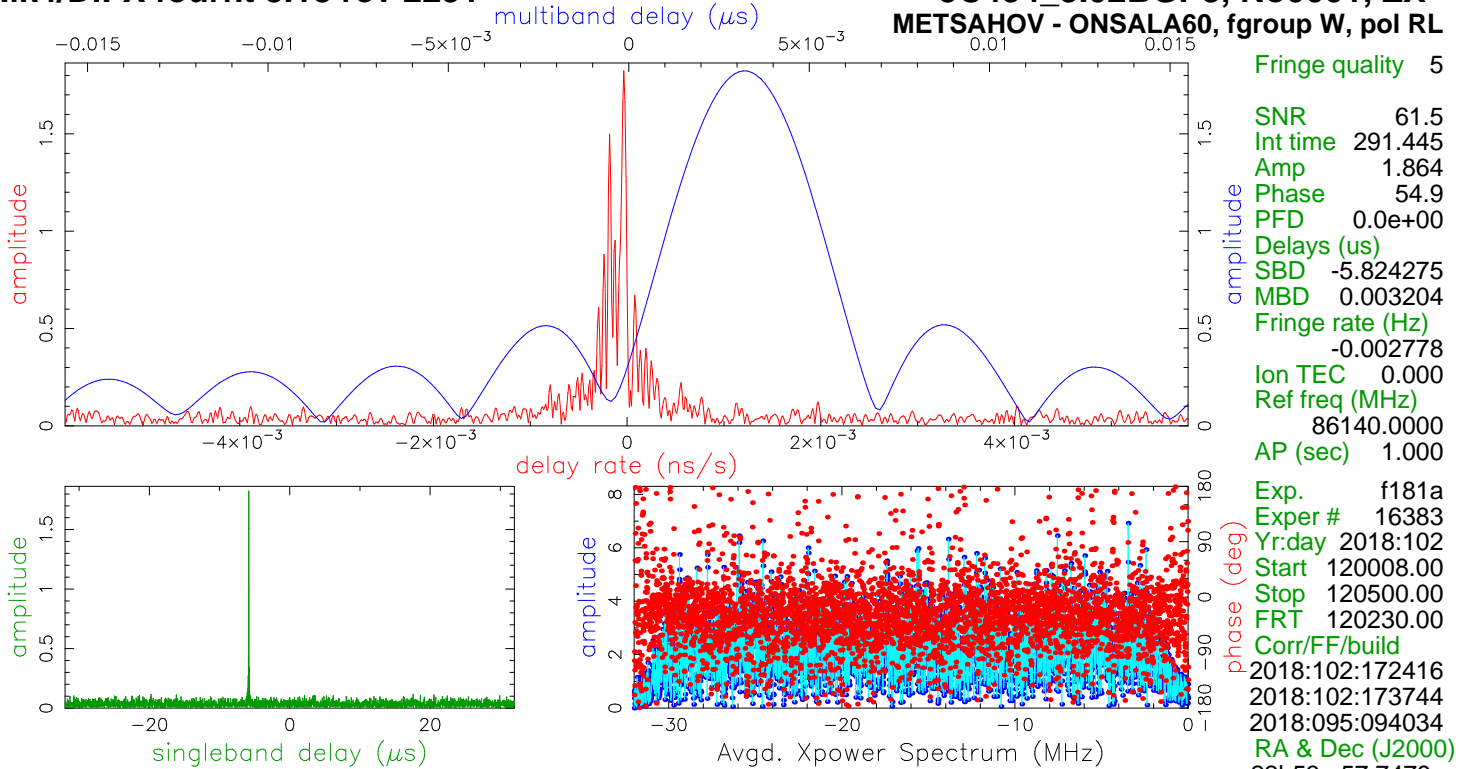
Fringe quality 4
 SNR 62.9
 Int time 291.445
 Amp 1.905
 Phase 58.8
 PFD 0.0e+00
 Delays (us)
 SBD -5.754925
 MBD 0.010897
 Fringe rate (Hz)
 -0.002748
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.000
 Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120008.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:173723
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



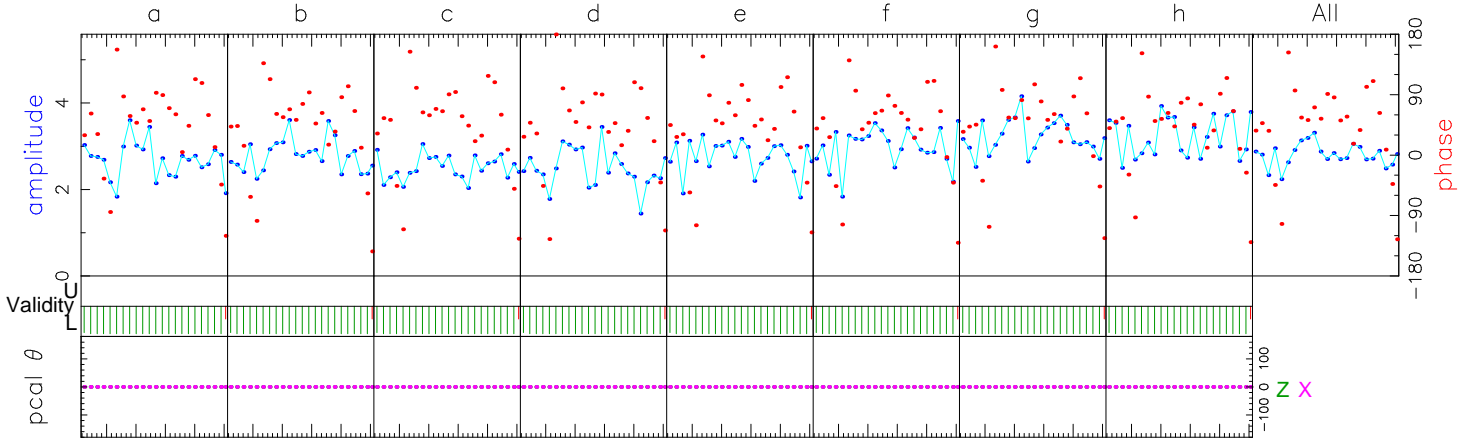
	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
	-112.0	-119.4	-116.7	-126.1	-136.7	-133.9	-119.7	-104.5	Phase	-121.2	
	1.7	1.8	1.9	1.8	2.1	1.9	2.0	2.2	Ampl.	1.9	
	3360.5	3360.3	3360.3	3360.1	3360.2	3360.6	3360.5	3360.4	Sbd box	3360.4	
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	APs used		
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
Z:X	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	PC amp		
X	1000	1000	1000	1000	1000	1000	1000	1000			
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids		
X	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks		
									Chan ids		
									Tracks		
Group delay (usec)(sbd)	-2.24432087465E+03		Apriori delay (usec)		-2.23855052140E+03		Resid mbdelay (usec)		1.08967E-02	+/- 3.5E-05	
Sband delay (usec)	-2.24430544640E+03		Apriori clock (usec)		-5.9850416E+00		Resid sbdelay (usec)		-5.75492E+00	+/- 2.7E-04	
Phase delay (usec)	-2.23855052531E+03		Apriori clockrate (us/s)		-2.7899999E-07		Resid phdelay (usec)		-3.90726E-06	+/- 5.9E-08	
Delay rate (us/s)	-4.29968503207E-02		Apriori rate (us/s)		-4.29968184250E-02		Resid rate (us/s)		-3.18958E-08	+/- 3.5E-10	
Total phase (deg)	90.1		Apriori accel (us/s/s)		1.26792658649E-05		Resid phase (deg)		58.8	+/- 1.8	
	RMS	Theor.	Amplitude	1.905 +/- 0.030	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
ph/seg (deg)	60.7	4.4	Search (1024X32)	1.869	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-32.000	32.000	
amp/seg (%)	53.2	7.6	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.016	0.016
ph/frq (deg)	11.6	2.6	Inc. seg. avg.	2.880	Sample rate(MSamp/s): 64		dr window (ns/s)		-0.006	0.006	
amp/frq (%)	7.8	4.5	Inc. frq. avg.	1.911	Data rate(Mb/s): 1024		nlags: 4096 t_cohere infinite		ion window (TEC)	0.00	0.00

Z: az 252.8 el 28.1 pa 29.7 X: az 242.2 el 35.2 pa 29.9 u,v (fr/asec) 267.995 506.923 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/ZX..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/ZX.W.23.02BGP8



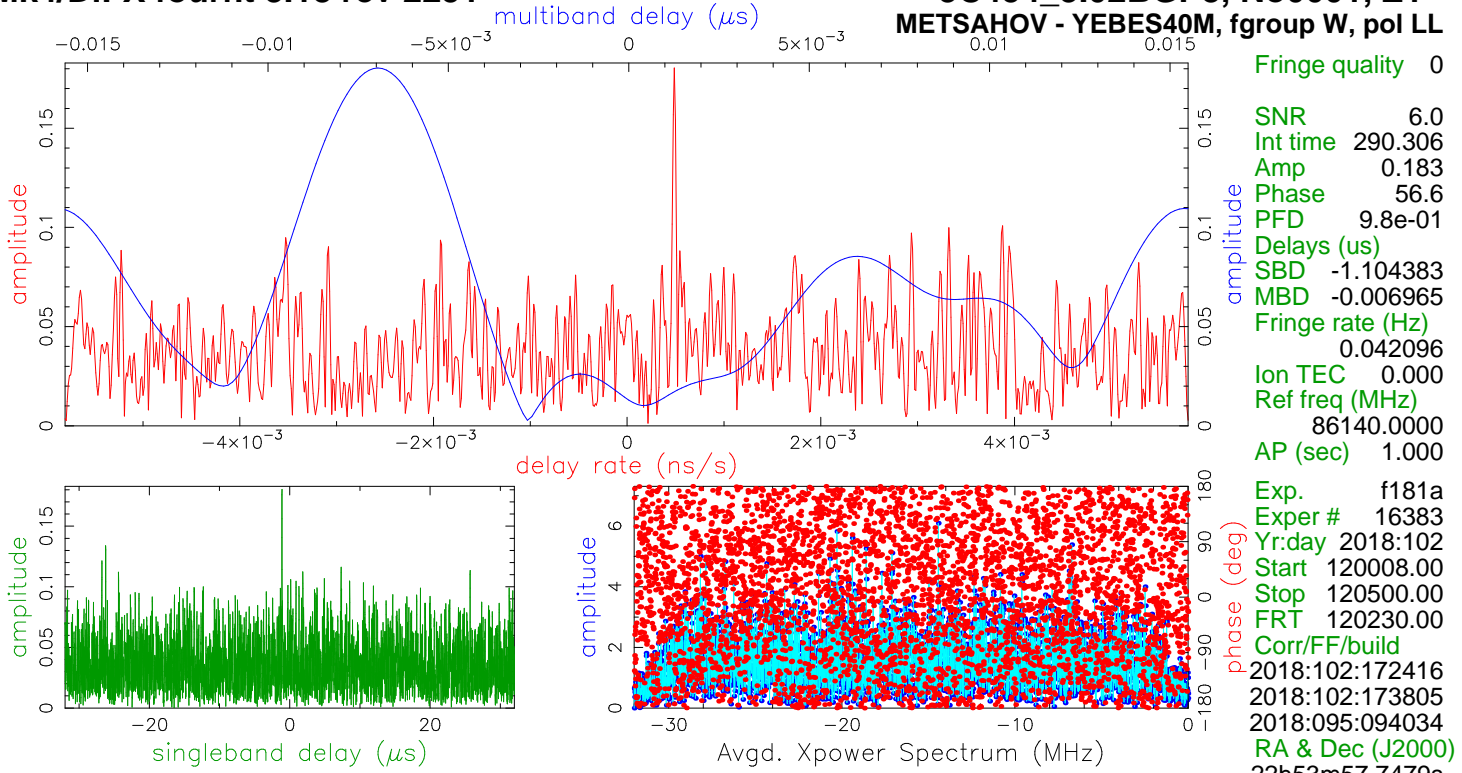
Fringe quality 5
 SNR 61.5
 Int time 291.445
 Amp 1.864
 Phase 54.9
 PFD 0.0e+00
 Delays (us)
 SBD -5.824275
 MBD 0.003204
 Fringe rate (Hz)
 -0.002778
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.000
 Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120008.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:173744
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	52.6	54.0	59.1	53.7	55.8	55.9	55.9	53.0	Phase	54.9
	1.8	1.8	1.6	1.6	1.7	2.0	2.0	2.2	Ampl.	1.8
	3351.5	3351.5	3351.7	3351.4	3351.5	3351.8	3351.1	3351.6	Sbd box	3351.5
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	APs used	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
X	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	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	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
X	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-2.24435981740E+03		Apriori delay (usec)		-2.23855052140E+03		Resid mbdelay (usec)		3.20400E-03	+/- 3.5E-05
Sband delay (usec)	-2.24437479640E+03		Apriori clock (usec)		-5.9850416E+00		Resid sbdelay (usec)		-5.82428E+00	+/- 2.8E-04
Phase delay (usec)	-2.23855051963E+03		Apriori clockrate (us/s)		-2.7899999E-07		Resid phdelay (usec)		1.77054E-06	+/- 6.0E-08
Delay rate (us/s)	-4.29968506712E-02		Apriori rate (us/s)		-4.29968184250E-02		Resid rate (us/s)		-3.22462E-08	+/- 3.6E-10
Total phase (deg)	86.1		Apriori accel (us/s/s)		1.26792658649E-05		Resid phase (deg)		54.9	+/- 1.9

ph/seg (deg) 60.8 4.5 Theor. Amplitude 1.864 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 52.2 7.8 Search (1024X32) 1.802 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 2.3 2.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 11.6 4.6 Inc. seg. avg. 2.795 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006
 Z: az 252.8 el 28.1 pa 29.7 X: az 242.2 el 35.2 pa 29.9 u,v (fr/asec) 267.995 506.923 ion window (TEC) 0.00 0.00
 Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/ZX..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/ZX.W.24.02BGP8 simultaneous interpolator



Fringe quality 0

SNR 6.0

Int time 290.306

Amp 0.183

Phase 56.6

PFD 9.8e-01

Delays (us)

SBD -1.104383

MBD -0.006965

Fringe rate (Hz) 0.042096

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 1.000

Exp. f181a

Exper # 16383

Yr:day 2018:102

Start 120008.00

Stop 120500.00

FRT 120230.00

Corr/FF/build

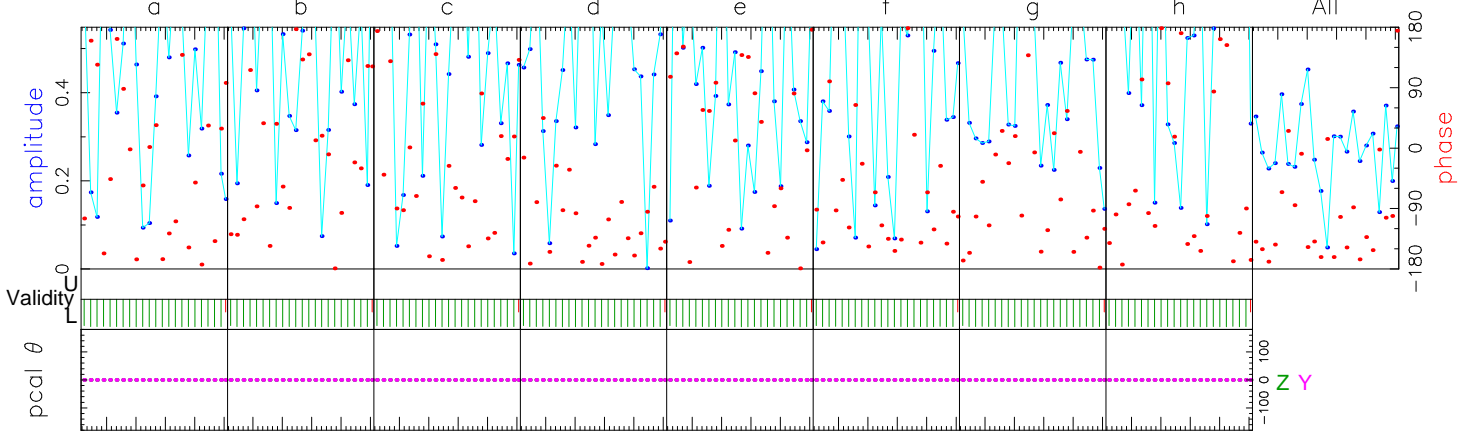
2018:102:172416

2018:102:173805

2018:095:094034

RA & Dec (J2000) 22h53m57.7479s +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	-135.0	-168.1	-92.4	-116.6	176.1	-98.1	-85.4	-139.7	Phase	-123.4
	0.1	0.1	0.2	0.4	0.2	0.3	0.4	0.4	Ampl.	0.2
	1435.6	4948.1	1316.7	3955.6	5790.2	86.6	2152.2	23.1	Sbd box	3955.6
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	APs used	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	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	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Y	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
									Tracks	
Group delay (usec)(sbd)	-6.74593264063E+03		Apriori delay (usec)		-6.74483192580E+03		Resid mbdelay (usec)		-6.96483E-03 +/- 3.6E-04	
Sband delay (usec)	-6.74593630930E+03		Apriori clock (usec)		-3.8500564E+00		Resid sbdelay (usec)		-1.10438E+00 +/- 2.9E-03	
Phase delay (usec)	-6.74483192978E+03		Apriori clockrate (us/s)		-3.7599999E-07		Resid phdelay (usec)		-3.98042E-06 +/- 6.2E-07	
Delay rate (us/s)	-1.27919246659E-02		Apriori rate (us/s)		-1.27924133616E-02		Resid rate (us/s)		4.88696E-07 +/- 3.6E-09	
Total phase (deg)	24.9		Apriori accel (us/s/s)		4.27385401434E-05		Resid phase (deg)		56.6 +/- 19.1	

ph/seg (deg) 62.8 45.7 Search (1024X32) 0.178 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

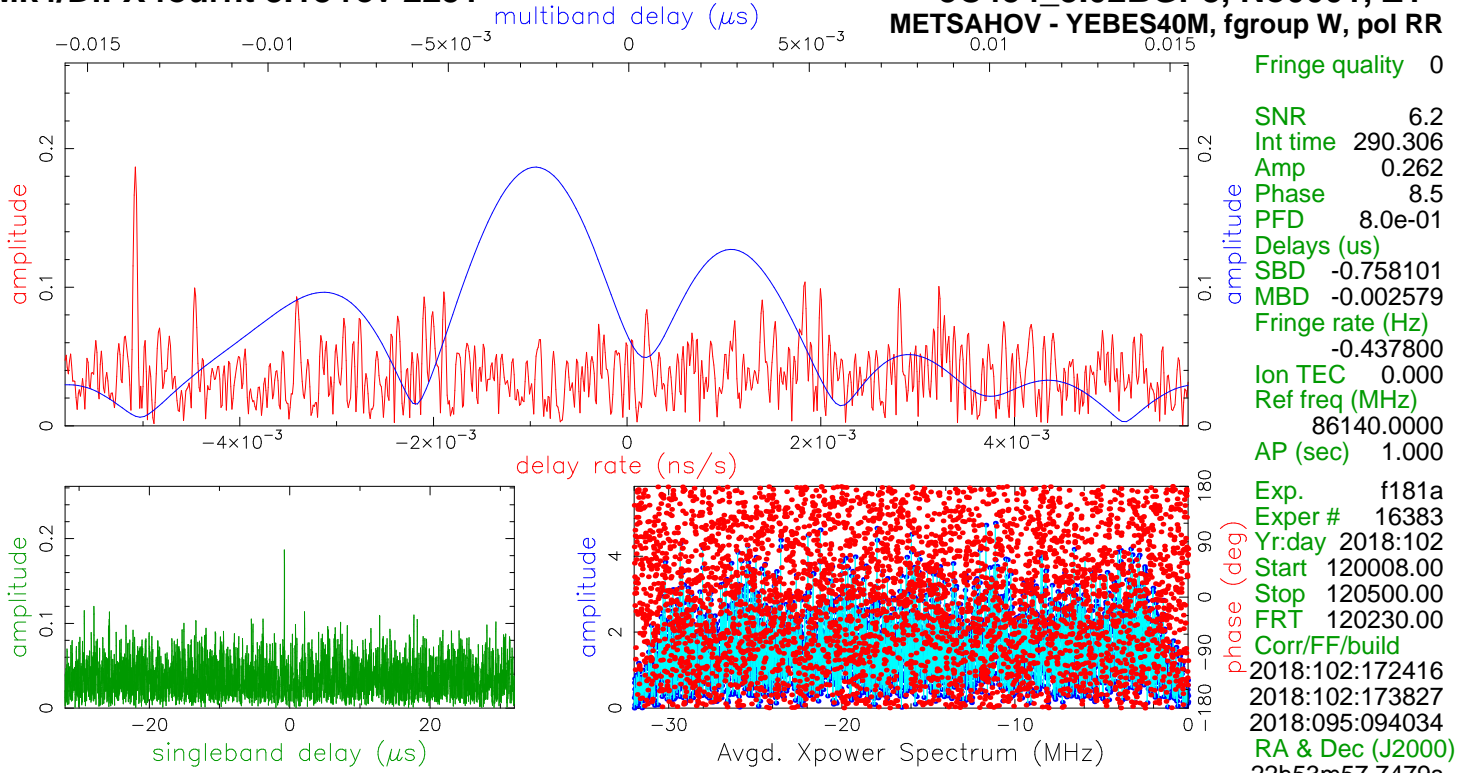
amp/seg (%) 69.9 79.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000

ph/frq (deg) 39.0 27.0 Inc. seg. avg. 0.208 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 55.6 47.1 Inc. frq. avg. 0.186 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite dr window (ns/s) -0.006 0.006

Z: az 252.8 el 28.1 pa 29.7 Y: az 240.3 el 52.0 pa 43.7 u,v (fr/asec) 115.789 2835.917 ion window (TEC) 0.00 0.00 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/ZY..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/ZY.W.25.02BGP8



Fringe quality 0

SNR 6.2

Int time 290.306

Amp 0.262

Phase 8.5

PFD 8.0e-01

Delays (us)

SBD -0.758101

MBD -0.002579

Fringe rate (Hz)

-0.437800

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 1.000

Exp. f181a

Exper # 16383

Yr:day 2018:102

Start 120008.00

Stop 120500.00

FRT 120230.00

Corr/FF/build

2018:102:172416

2018:102:173827

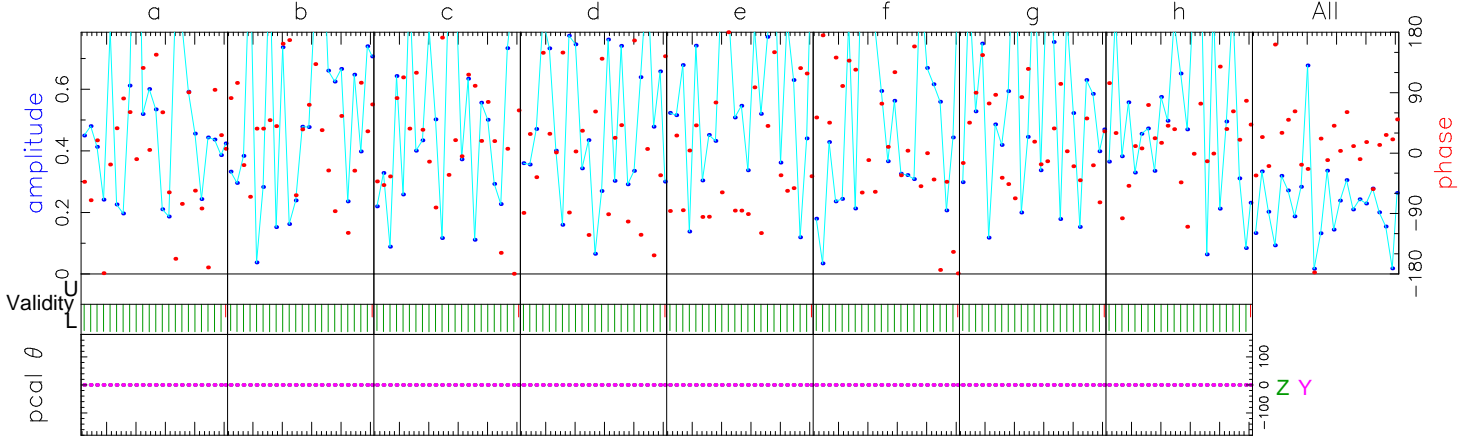
2018:095:094034

RA & Dec (J2000)

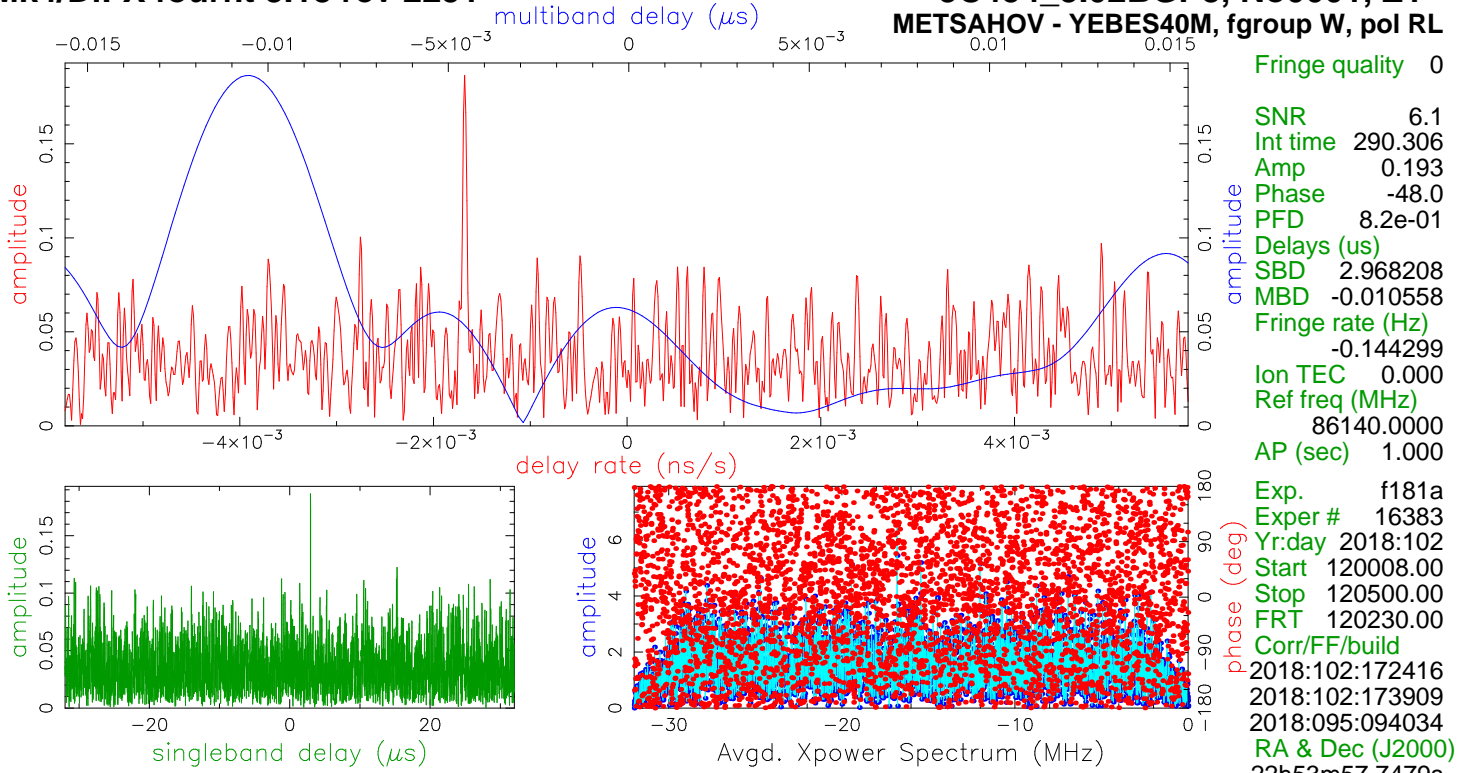
22h53m57.7479s

+16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All	
	-1.0	35.7	28.8	-31.1	-60.6	-15.7	10.8	24.0	Phase	8.5	
	0.2	0.3	0.3	0.2	0.2	0.2	0.4	0.5	Ampl.	0.3	
	5458.8	7063.9	3924.6	5061.1	7739.2	5803.0	808.0	3998.3	Sbd box	4000.0	
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	APs used		
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
Y	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs		
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
Z:Y	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	PC amp		
Y	1000	1000	1000	1000	1000	1000	1000	1000			
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids		
Y	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks		
									Chan ids		
									Tracks		
Group delay (usec)(sbd)	-6.74558450528E+03		Apriori delay (usec)		-6.74483192580E+03		Resid mbdelay (usec)		-2.57948E-03	+/- 3.5E-04	
Sband delay (usec)	-6.74559002680E+03		Apriori clock (usec)		-3.8500564E+00		Resid sbdelay (usec)		-7.58101E-01	+/- 2.8E-03	
Phase delay (usec)	-6.74483192552E+03		Apriori clockrate (us/s)		-3.7599999E-07		Resid phdelay (usec)		2.74396E-07	+/- 6.0E-07	
Delay rate (us/s)	-1.27974957892E-02		Apriori rate (us/s)		-1.27924133616E-02		Resid rate (us/s)		-5.08243E-06	+/- 3.6E-09	
Total phase (deg)	336.8		Apriori accel (us/s/s)		4.27385401434E-05		Resid phase (deg)		8.5	+/- 18.6	
	RMS	Theor.	Amplitude	0.262 +/- 0.043	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5				
ph/seg (deg)	56.9	44.7	Search (1024X32)	0.184	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-32.000	32.000	
amp/seg (%)	73.9	78.0	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.016	0.016
ph/frq (deg)	37.5	26.3	Inc. seg. avg.	0.246	Sample rate(MSamp/s): 64		dr window (ns/s)		-0.006	0.006	
amp/frq (%)	46.9	46.0	Inc. frq. avg.	0.267	Data rate(Mb/s): 1024		nlags: 4096 t_cohere infinite		ion window (TEC)	0.00	0.00
Z: az 252.8 el 28.1 pa 29.7	Y: az 240.3 el 52.0 pa 43.7		u,v (fr/asec) 115.789 2835.917						simultaneous interpolator		

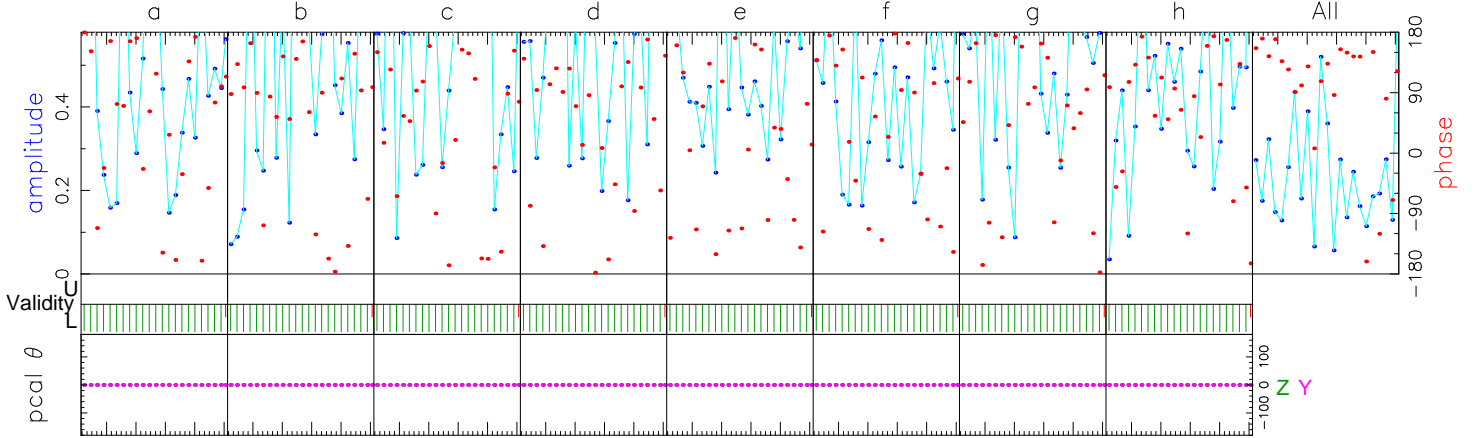


Fringe quality 0

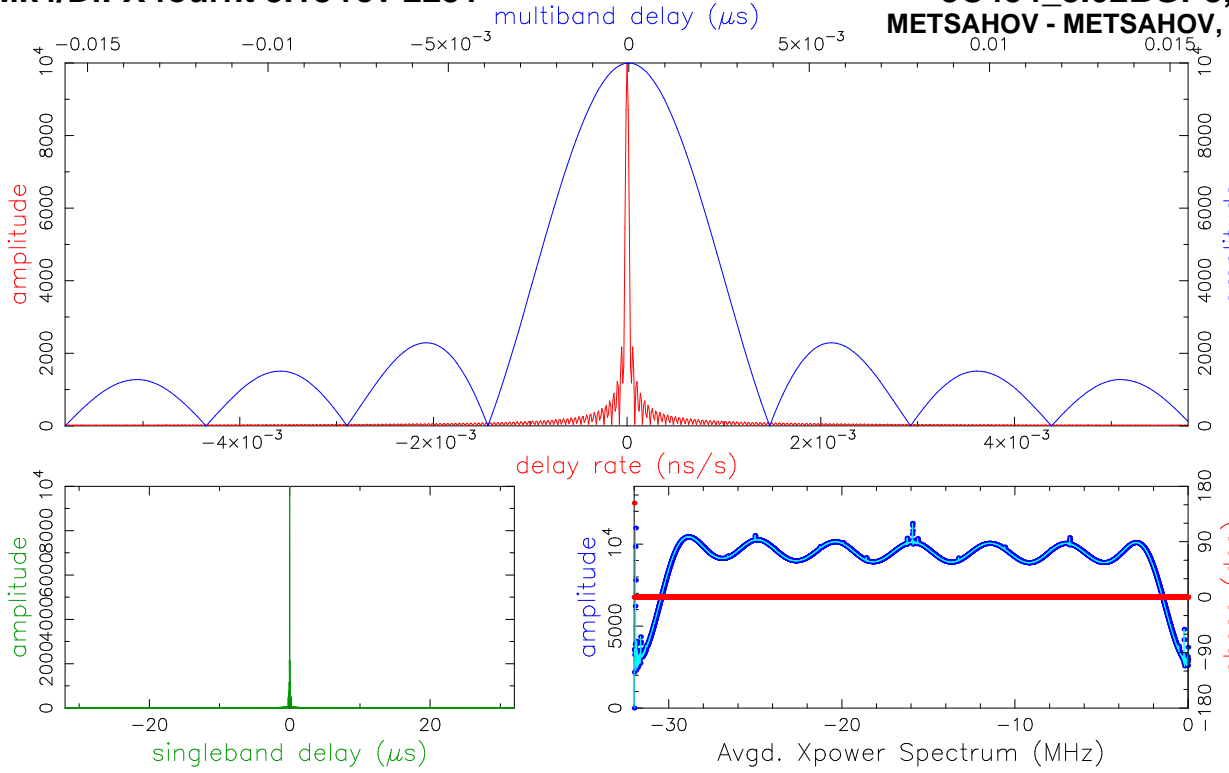
SNR 6.1
Int time 290.306
Amp 0.193
Phase -48.0
PFD 8.2e-01
Delays (us)
SBD 2.968208
MBD -0.010558
Fringe rate (Hz)
-0.144299
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 1.000

Exp. f181a
Exper # 16383
Yr:day 2018:102
Start 120008.00
Stop 120500.00
FRT 120230.00
Corr/FF/build
2018:102:172416
2018:102:173909
2018:095:094034
RA & Dec (J2000)
22h53m57.7479s
+16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec

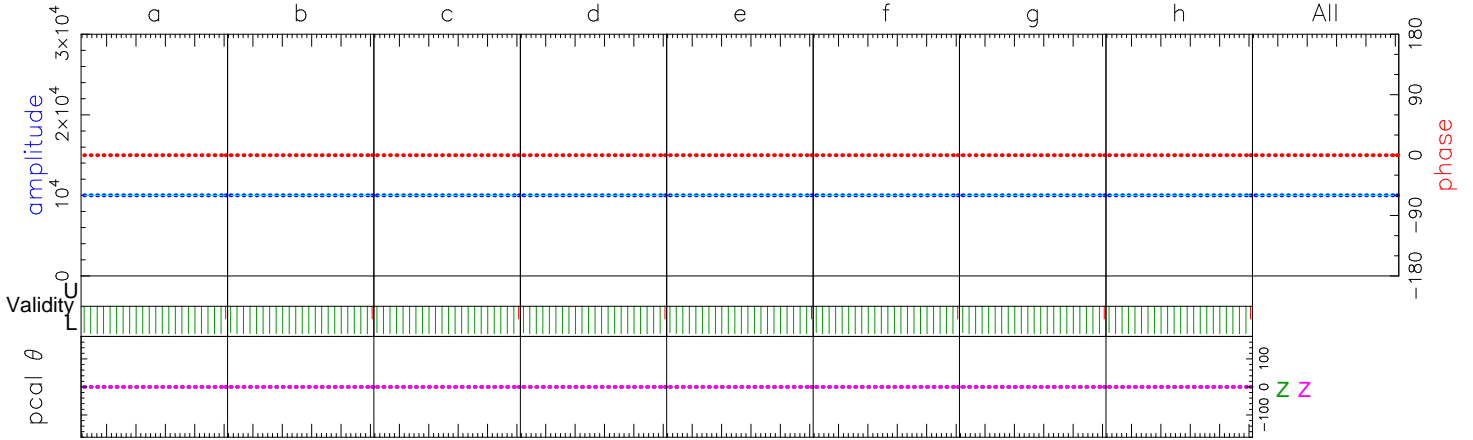


86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
128.0	136.5	140.3	97.8	159.9	-174.9	120.3	129.8	Phase	132.0
0.2	0.3	0.3	0.2	0.1	0.2	0.2	0.2	Ampl.	0.2
3059.5	4775.2	6830.9	7931.3	2737.6	5290.9	1390.5	6254.7	Sbd box	4476.9
U/L 0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	APs used	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Y -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:Y 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y 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	PC amp	
Y 1000	1000	1000	1000	1000	1000	1000	1000		
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Y W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Tracks	
Group delay (usec)(sbd)	-6.74187373346E+03		Apriori delay (usec)	-6.74483192580E+03	Resid mbdelay (usec)	-1.05577E-02	+/-	3.5E-04	
Sband delay (usec)	-6.74186371780E+03		Apriori clock (usec)	-3.8500564E+00	Resid sbdelay (usec)	2.96821E+00	+/-	2.8E-03	
Phase delay (usec)	-6.74483192154E+03		Apriori clockrate (us/s)	-3.7599999E-07	Resid phdelay (usec)	4.25791E-06	+/-	6.0E-07	
Delay rate (us/s)	-1.27940885249E-02		Apriori rate (us/s)	-1.27924133616E-02	Resid rate (us/s)	-1.67516E-06	+/-	3.6E-09	
Total phase (deg)		-79.6	Apriori accel (us/s/s)	4.27385401434E-05	Resid phase (deg)	-48.0	+/-	18.7	
RMS	Theor.	Amplitude	0.193 +/- 0.031	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-32.000	32.000	
ph/seg (deg)	55.7	44.7	Search (1024X32)	0.180	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	mb window (us)	-0.016	0.016	
amp/seg (%)	74.1	78.1	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.006	0.006
ph/frq (deg)	28.9	26.4	Inc. seg. avg.	0.188	Sample rate(MSamp/s): 64	Data rate(Mb/s): 1024	ion window (TEC)	0.00	0.00
amp/frq (%)	38.0	46.0	Inc. frq. avg.	0.187	nlags: 4096 t_cohere infinite				



Fringe quality 9
 SNR 330111.4
 Int time 291.445
 Amp 10000.000
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.000
 Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120008.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:174056
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

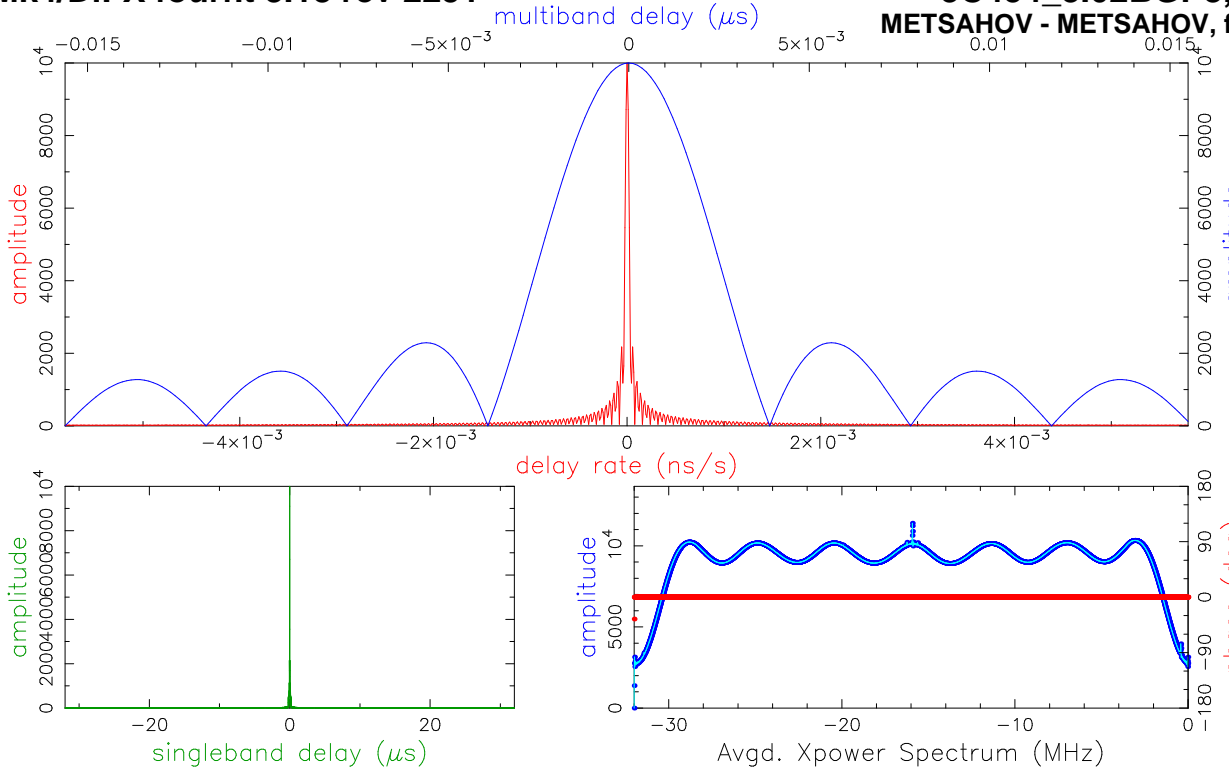
Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All		
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	Ampl.	10000.0		
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	4097.0		
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used			
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs			
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC phase			
Z	1000	1000	1000	1000	1000	1000	1000	1000	ManI PC			
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	PC amp			
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids			
									Tracks			
									Chan ids			
									Tracks			
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	+/-	6.6E-09		
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	+/-	5.2E-08		
Phase delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	+/-	1.1E-11		
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	+/-	6.6E-14		
Total phase (deg)			0.0							0.0		
				Apriori delay (usec)					Resid mbdelay (usec)	0.00000E+00	+/- 6.6E-09	
				Apriori clock (usec)					Resid sbdelay (usec)	0.00000E+00	+/- 5.2E-08	
				Apriori clockrate (us/s)					Resid phdelay (usec)	0.00000E+00	+/- 1.1E-11	
				Apriori rate (us/s)					Resid rate (us/s)	0.00000E+00	+/- 6.6E-14	
				Apriori accel (us/s/s)					Resid phase (deg)	0.0	+/- 0.0	
ph/seg (deg)	0.0	0.0	0.0	10000.000 +/- 0.030	10000.000	10000.000	10000.000	10000.000	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
amp/seg (%)	0.0	0.0	0.0	Search (1024X32)	10000.000	10000.000	10000.000	10000.000	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000	
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	0.000	0.000	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.016 0.016
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	10000.000	10000.000	10000.000	Sample rate(MSamp/s): 64		dr window (ns/s)	-0.006 0.006
				Inc. frq. avg.	10000.000	10000.000	10000.000	10000.000	Data rate(Mb/s): 1024	nlags: 4096 t_cohere infinite	ion window (TEC)	0.00 0.00

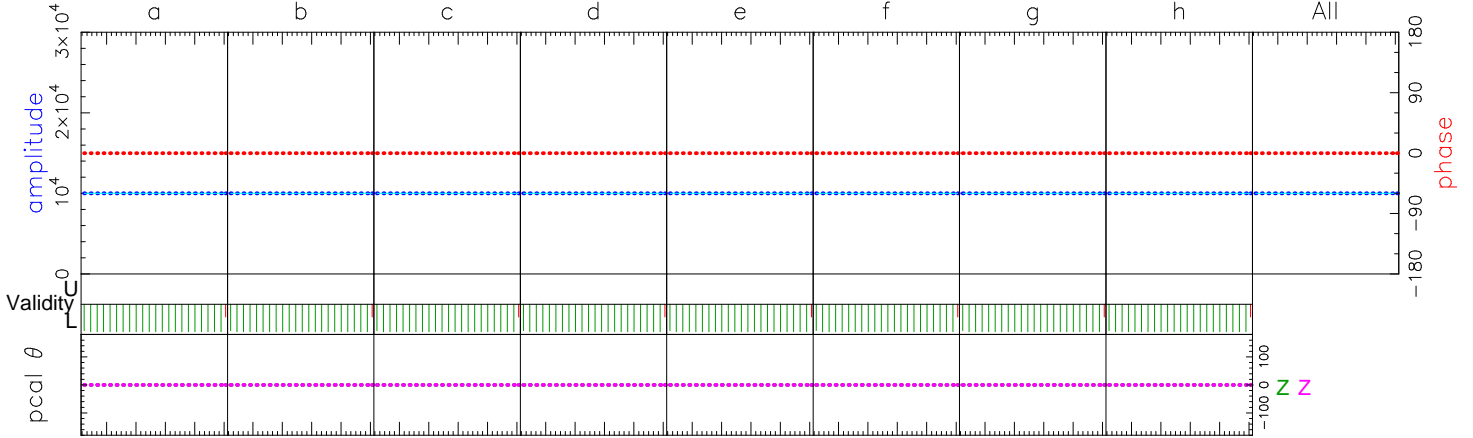
Z: az 252.8 el 28.1 pa 29.7 Z: az 252.8 el 28.1 pa 29.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/ZZ..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/ZZ.W.33.02BGP8



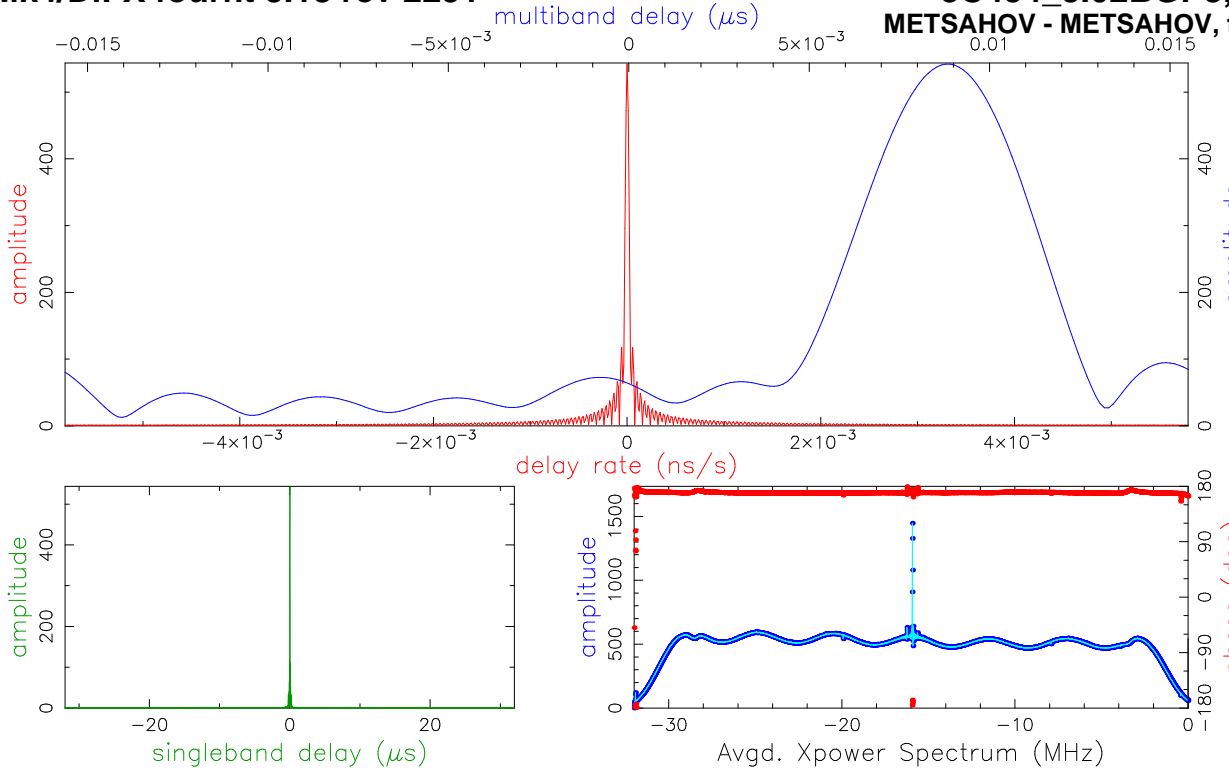
Fringe quality 9
 SNR 330111.4
 Int time 291.445
 Amp 10000.000
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 1.000
 Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120008.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:174116
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	Ampl.	10000.0
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	Sbd box	4097.0
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
Z	1000	1000	1000	1000	1000	1000	1000	1000	Manl PC	
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	PC amp	
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
									Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00 +/- 6.6E-09
Sband delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Apriori clock (usec)	0.0000000000E+00 +/- 5.2E-08
Phase delay (usec)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000000E+00 +/- 1.1E-11
Delay rate (us/s)	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00 +/- 6.6E-14
Total phase (deg)			0.0						Apriori accel (us/s/s)	0.0000000000E+00 +/- 0.0

ph/seg (deg) 0.0 0.0 Theor. Amplitude 10000.000 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 0.0 0.0 Search (1024X32) 10000.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 ph/frq (deg) 0.0 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 amp/frq (%) 0.0 0.0 Inc. seg. avg. 10000.000 Sample rate(MSamp/s): 64 dr window (ns/s) -0.006 0.006
 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite ion window (TEC) 0.00 0.00

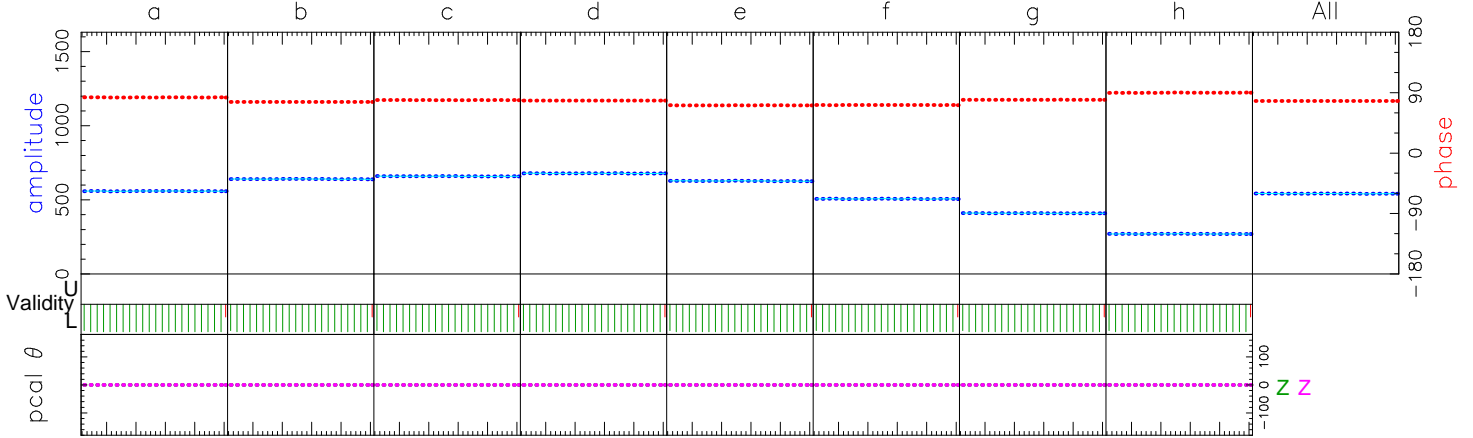


Fringe quality 8

SNR 17948.4
 Int time 291.445
 Amp 543.707
 Phase -102.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.024838
 MBD 0.008854
 Fringe rate (Hz) 0.000002
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 1.000

Exp. f181a
 Exper # 16383
 Yr:day 2018:102
 Start 120008.00
 Stop 120500.00
 FRT 120230.00
 Corr/FF/build
 2018:102:172416
 2018:102:174137
 2018:095:094034
 RA & Dec (J2000)
 22h53m57.7479s
 +16°08'53.561"

Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec

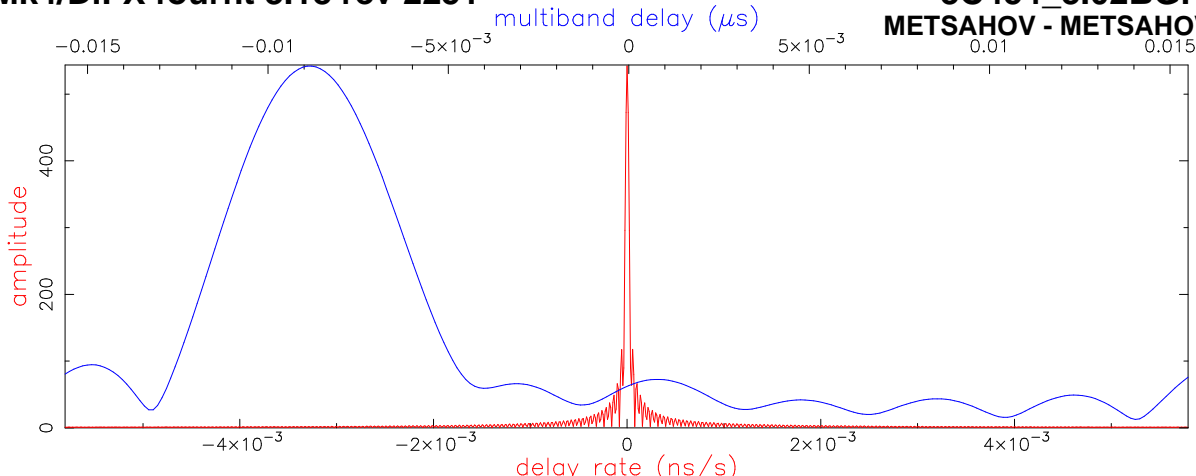


	86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
	82.9	76.1	78.9	78.2	71.1	71.5	79.3	89.9	Phase	77.6
	559.2	640.5	659.4	679.1	627.5	506.6	410.2	270.7	Ampl.	544.2
	4100.1	4100.2	4100.1	4100.2	4100.1	4100.2	4100.2	4100.7	Sbd box	4100.2
U/L	0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	APs used	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z	-1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Chan ids	
Z	W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Tracks	
Z									Chan ids	
Z									Tracks	

Group delay (usec)(sbd) 4.01043750000E-02 Apriori delay (usec) 0.00000000000E+00 Resid mbdelay (usec) 8.85438E-03 +/- 1.2E-07
 Sband delay (usec) 2.48385000000E-02 Apriori clock (usec) 0.0000000E+00 Resid sbdelay (usec) 2.48385E-02 +/- 9.6E-07
 Phase delay (usec) 2.50313373255E-06 Apriori clockrate (us/s) 0.0000000E+00 Resid phdelay (usec) 2.50313E-06 +/- 2.1E-10
 Delay rate (us/s) 2.46691432552E-11 Apriori rate (us/s) 0.00000000000E+00 Resid rate (us/s) 2.46691E-11 +/- 1.2E-12
 Total phase (deg) -102.4 Apriori accel (us/s/s) 0.00000000000E+00 Resid phase (deg) -102.4 +/- 0.0

RMS Theor. Amplitude 543.707 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.0 0.0 Search (1024X32) 542.027 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000
 amp/seg (%) 0.3 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016
 ph/frq (deg) 6.6 0.0 Inc. seg. avg. 542.150 Sample rate(MSamp/s): 64 dr window (ns/s) -0.006 0.006
 amp/frq (%) 24.5 0.0 Inc. frq. avg. 544.152 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 252.8 el 28.1 pa 29.7 Z: az 252.8 el 28.1 pa 29.7 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/ZZ..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/ZZ.W.35.02BGP8



Fringe quality 8

SNR 17948.4

Int time 291.445

Amp 543.707

Phase 102.4

PFD 0.0e+00

Delays (us)

SBD -0.024838

MBD -0.008854

Fringe rate (Hz)

-0.000002

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 1.000

Exp. f181a

Exper # 16383

Yr:day 2018:102

Start 120008.00

Stop 120500.00

FRT 120230.00

Corr/FF/build

2018:102:172416

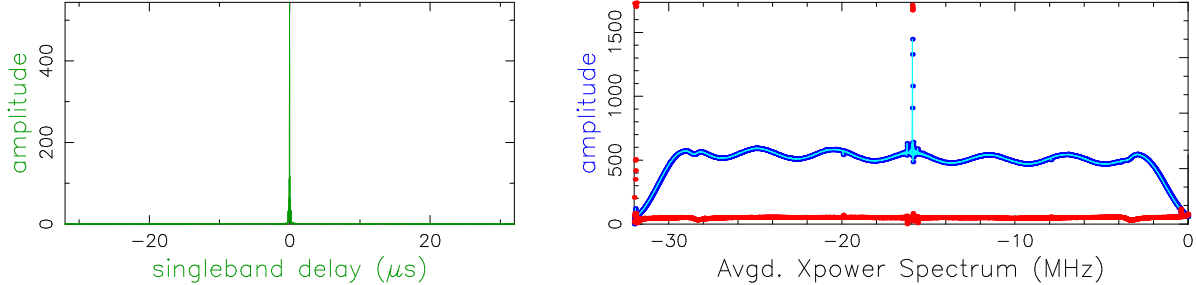
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2018:095:094034

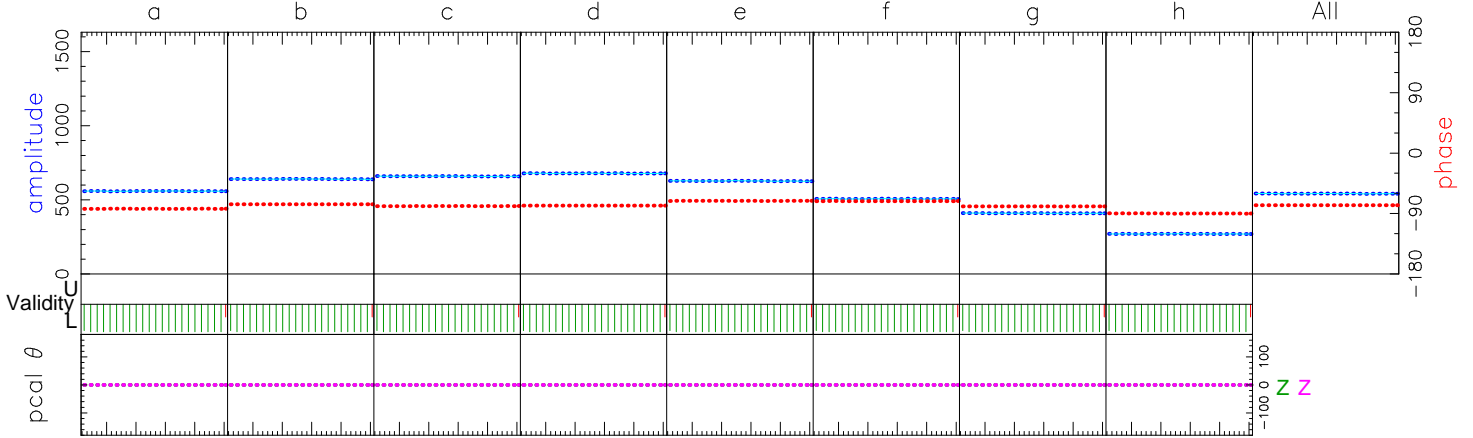
RA & Dec (J2000)

22h53m57.7479s

+16°08'53.561"



Amp. and Phase vs. time for each freq., 23 segs, 13 APs / seg (13.00 sec / seg.), time ticks 10 sec



86156.00	86188.00	86220.00	86252.00	86284.00	86316.00	86348.00	86380.00	Freq (MHz)	All
-82.9	-76.1	-78.9	-78.2	-71.1	-71.5	-79.3	-89.9	Phase	-77.6
559.2	640.5	659.4	679.1	627.5	506.6	410.2	270.7	Ampl.	544.2
4093.9	4093.8	4093.9	4093.8	4093.9	4093.8	4093.8	4093.3	Sbd box	4093.8
U/L 0/292	0/292	0/292	0/292	0/292	0/292	0/292	0/292	APs used	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z -1000	-1000	-1000	-1000	-1000	-1000	-1000	-1000	PC freqs	
Z:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Z 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	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000		
Z W00LR	W01LR	W02LR	W03LR	W04LR	W05LR	W06LR	W07LR	Chan ids	
Z W00LL	W01LL	W02LL	W03LL	W04LL	W05LL	W06LL	W07LL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-4.01043750000E-02		Apriori delay (usec)	0.00000000000E+00		Resid mbdelay (usec)	-8.85438E-03	+/-	1.2E-07
Sband delay (usec)	-2.48385000000E-02		Apriori clock (usec)	0.0000000E+00		Resid sbdelay (usec)	-2.48385E-02	+/-	9.6E-07
Phase delay (usec)	-2.50313373259E-06		Apriori clockrate (us/s)	0.0000000E+00		Resid phdelay (usec)	-2.50313E-06	+/-	2.1E-10
Delay rate (us/s)	-2.46691432552E-11		Apriori rate (us/s)	0.00000000000E+00		Resid rate (us/s)	-2.46691E-11	+/-	1.2E-12
Total phase (deg)		102.4	Apriori accel (us/s/s)	0.00000000000E+00		Resid phase (deg)	102.4	+/-	0.0

ph/seg (deg) 0.0 0.0 Theor. Amplitude 543.707 +/- 0.030 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

amp/seg (%) 0.3 0.0 Search (1024X32) 542.027 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000

ph/frq (deg) 6.6 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.016 0.016

amp/frq (%) 24.5 0.0 Inc. seg. avg. 542.150 Sample rate(MSamp/s): 64 dr window (ns/s) -0.006 0.006

Z: az 252.8 el 28.1 pa 29.7 Z: az 252.8 el 28.1 pa 29.7 u,v (fr/asec) 0.000 0.000 Data rate(Mb/s): 1024 nlags: 4096 t_cohere infinite ion window (TEC) 0.00 0.00

Control file: cf_1234 Input file: /Exps/f181a/FRINGE/1234/No0001/ZZ..02BGP8 Output file: /Exps/f181a/FRINGE/1234/No0001/ZZ.W.36.02BGP8 simultaneous interpolator