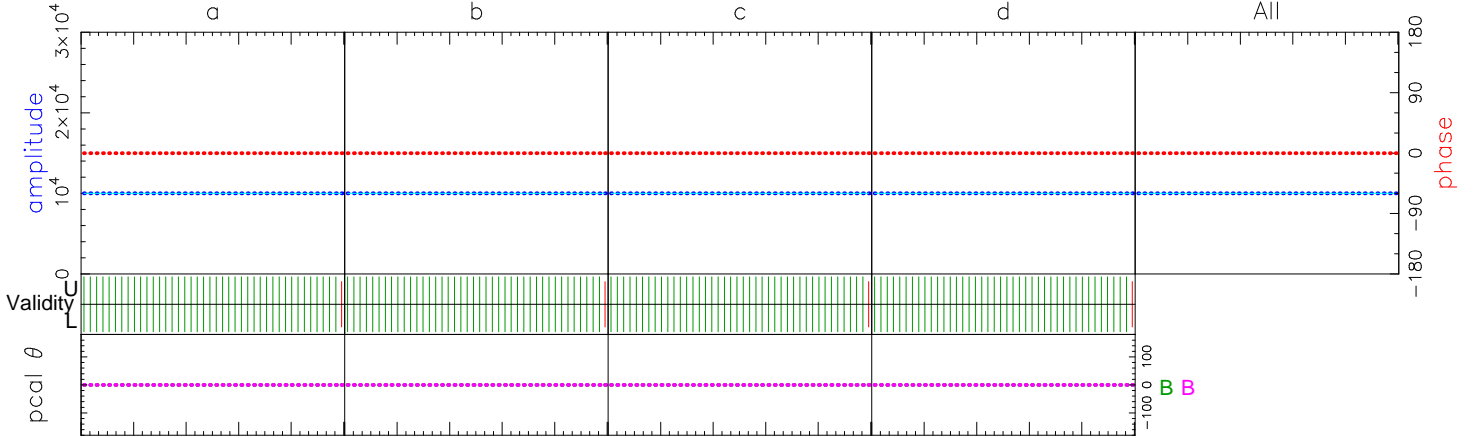


Fringe quality 9  
 SNR 473489.6  
 Int time 299.796  
 Amp 10000.000  
 Phase 0.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.000000  
 MBD 0.000000  
 Fringe rate (Hz)  
 0.000000  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. t192a  
 Exper # 16383  
 Yr:day 2019:263  
 Start 084500.00  
 Stop 085000.03  
 FRT 084730.00  
 Corr/FF/build  
 2019:263:184056  
 2019:263:190212  
 2019:253:110249  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

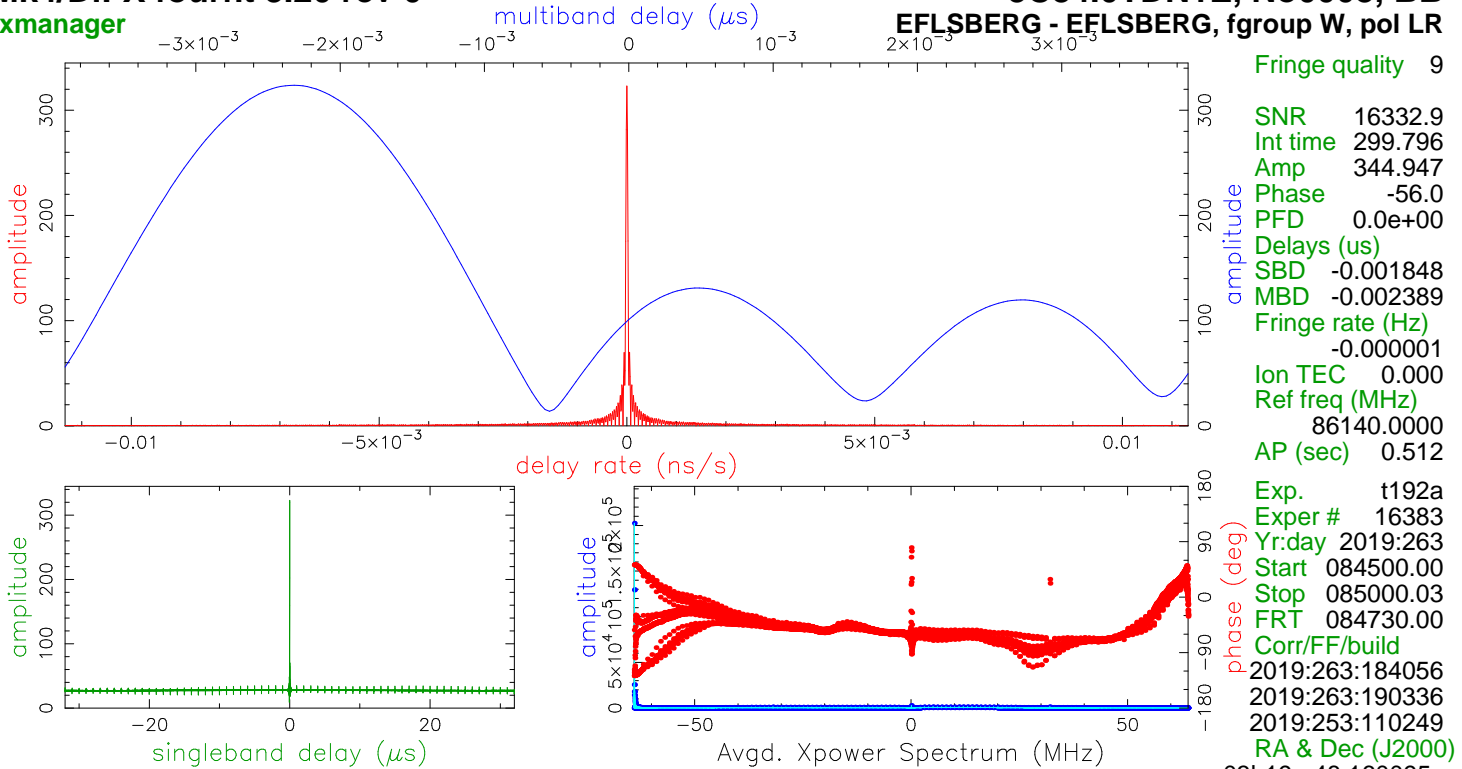
Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



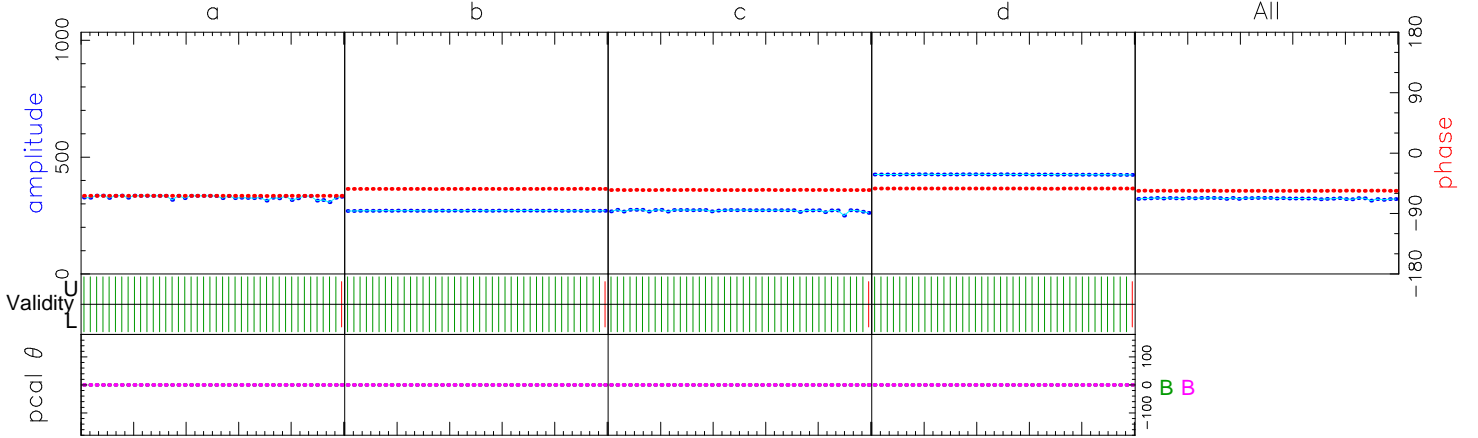
	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
U/L	586/586	586/586	586/586	586/586		
B	1000	1000	1000	1000	APs used	
B	1000	1000	1000	1000	PC freqs	
B:B	0:0	0:0	0:0	0:0	PC phase	
B:B	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000		
B	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Chan ids	
B	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Tracks	
B	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Chan ids	
B	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Tracks	

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.3E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	9.1E-09
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	3.9E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	4.5E-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	Theor.	0.0	Amplitude	10000.000 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	0.0	Search (2048X16)	10000.000	Search	10000.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000
ph/frq (deg)	0.0	Interp.	0.000	Inc. seg. avg.	10000.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0	Inc. frq. avg.	10000.000	Inc. frq. avg.	10000.000	Sample rate(MSamp/s):	128	mb window (us)	-0.004 0.004
						Data rate(Mb/s):	2048	dr window (ns/s)	-0.011 0.011
								ion window (TEC)	0.00 0.00



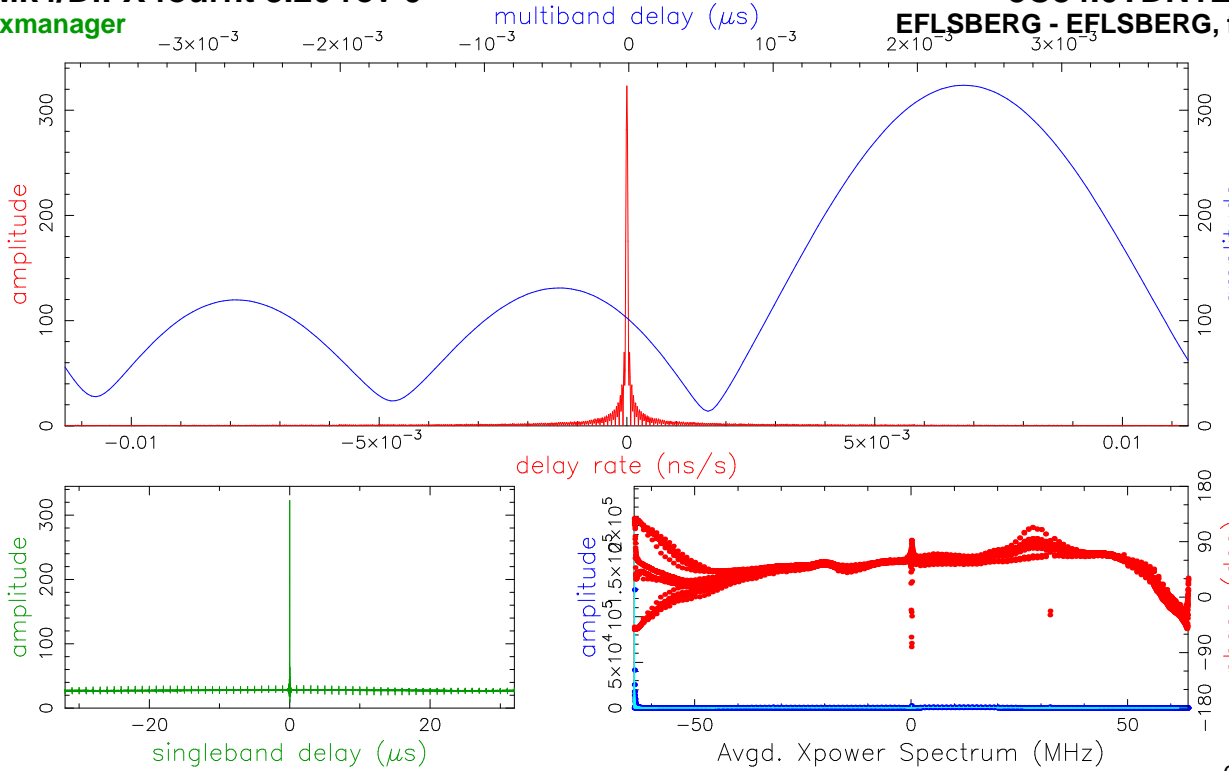
Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
	-63.5	-53.3	-54.9	-52.8	Phase	-56.0
	328.4	270.9	271.3	425.8	Ampl.	324.1
	8192.2	8192.3	8192.3	8192.9	Sbd box	8192.5
U/L	586/586	586/586	586/586	586/586	APs used	
B	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	PC freqs	
B:B	0:0	0:0	0:0	0:0	PC phase	
B:B	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000		
B	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Chan ids	
B	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Tracks	
					Chan ids	
					Tracks	

Group delay (usec)(sbd)	-2.38903125000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-2.38903E-03	+/-	6.8E-08
Sband delay (usec)	-1.84775000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.84775E-03	+/-	2.6E-07
Phase delay (usec)	-1.80723566164E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-1.80724E-06	+/-	1.1E-10
Delay rate (us/s)	-1.41711523917E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-1.41712E-11	+/-	1.3E-12
Total phase (deg)		Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-56.0	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	344.947 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	6.4	0.0	Search (2048X16)	321.691		Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000
ph/frq (deg)	6.2	0.0	Interp.	0.000		Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	19.3	0.0	Inc. seg. avg.	323.113		Sample rate(MSamp/s):	128	mb window (us)	-0.004 0.004
			Inc. frq. avg.	324.080		Data rate(Mb/s):	2048	dr window (ns/s)	-0.011 0.011
						nlags:	8192 t_cohere infinite	ion window (TEC)	0.00 0.00

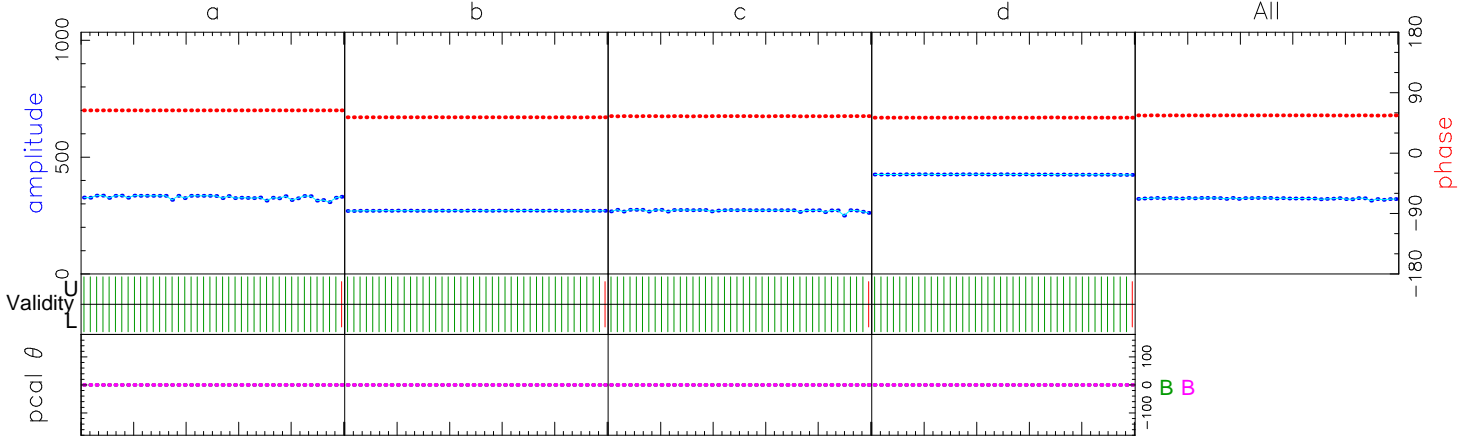


Fringe quality 9

SNR 16332.9  
Int time 299.796  
Amp 344.947  
Phase 56.0  
PFD 0.0e+00  
Delays (us)  
SBD 0.001848  
MBD 0.002389  
Fringe rate (Hz) 0.000001  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512

Exp. t192a  
Exper # 16383  
Yr:day 2019:263  
Start 084500.00  
Stop 085000.03  
FRT 084730.00  
Corr/FF/build  
2019:263:184056  
2019:263:190418  
2019:253:110249  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

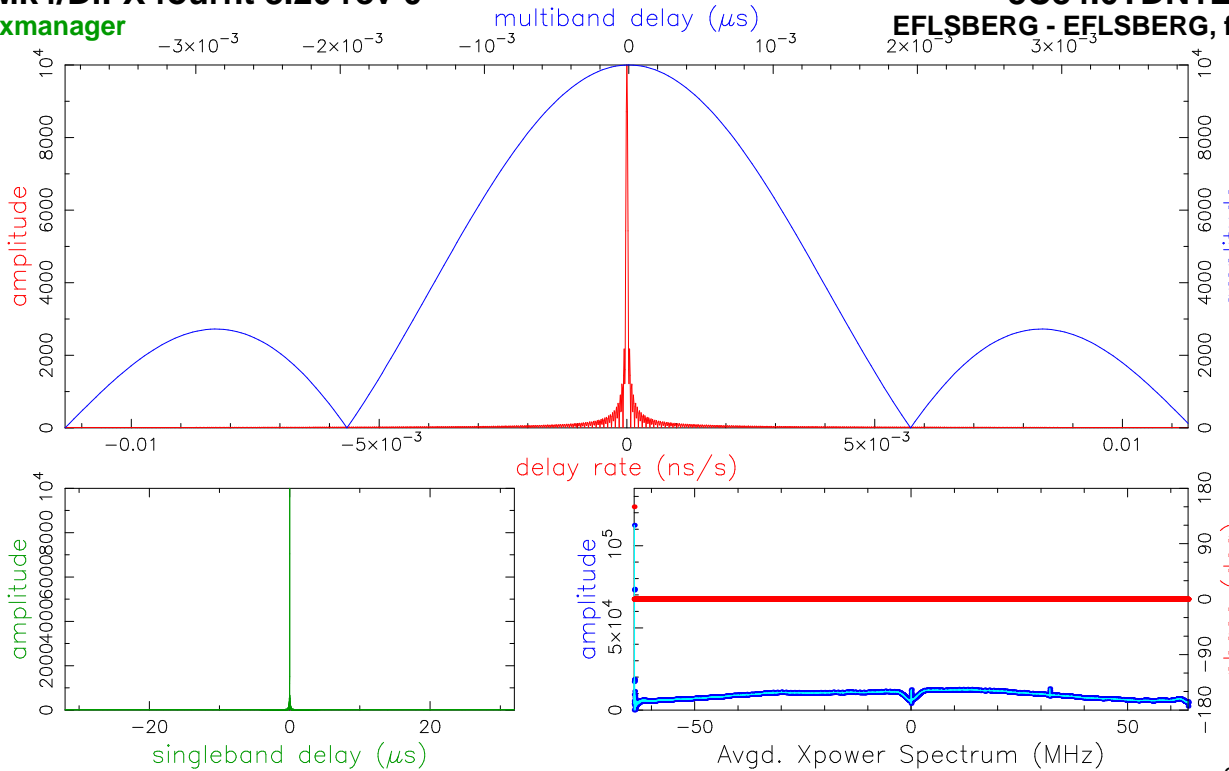
Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
	63.5	53.3	54.9	52.8	Phase	56.0
	328.4	270.9	271.3	425.8	Ampl.	324.1
	8193.8	8193.7	8193.7	8193.1	Sbd box	8193.5
U/L	586/586	586/586	586/586	586/586	APs used	
B	1000	1000	1000	1000	PC freqs	
B	1000	1000	1000	1000	PC freqs	
B:B	0:0	0:0	0:0	0:0	PC phase	
B:B	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000		
B	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Chan ids	
B	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Tracks	
					Chan ids	
					Tracks	

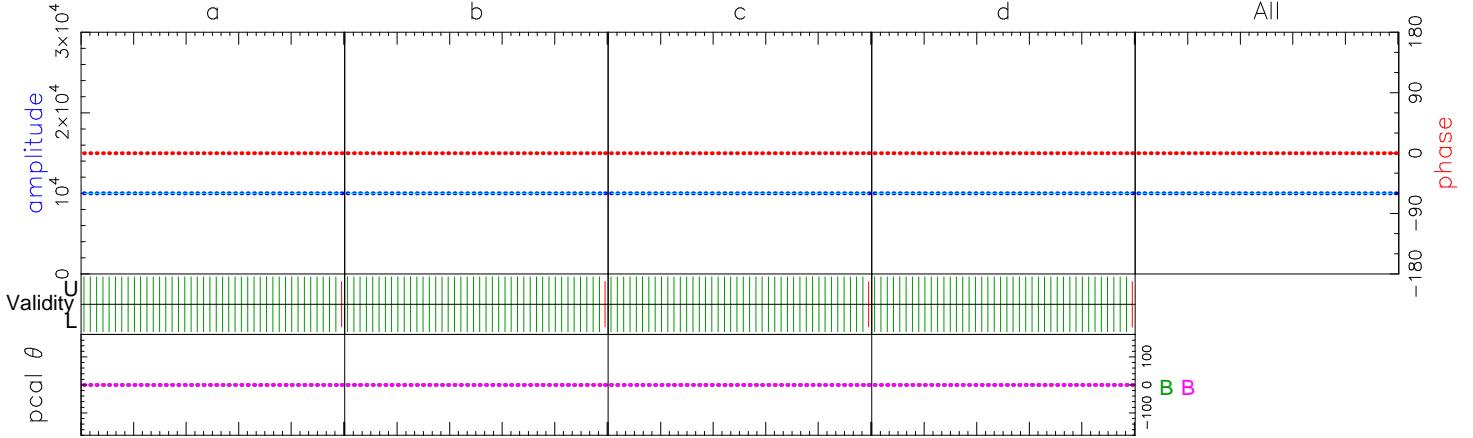
Group delay (usec)(sbd)	2.38903125000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	2.38903E-03	+/-	6.8E-08
Sband delay (usec)	1.84775000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.84775E-03	+/-	2.6E-07
Phase delay (usec)	1.80723566166E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	1.80724E-06	+/-	1.1E-10
Delay rate (us/s)	1.41711523917E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	1.41712E-11	+/-	1.3E-12
Total phase (deg)	56.0	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	56.0	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	344.947 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	6.4	0.0	Search (2048X16)	321.691		Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000
ph/frq (deg)	6.2	0.0	Interp.	0.000		Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	19.3	0.0	Inc. seg. avg.	323.113		Sample rate(MSamp/s):	128	mb window (us)	-0.004 0.004
			Inc. frq. avg.	324.080		Data rate(Mb/s):	2048	dr window (ns/s)	-0.011 0.011
								ion window (TEC)	0.00 0.00



Fringe quality 9  
 SNR 473489.6  
 Int time 299.796  
 Amp 10000.000  
 Phase 0.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.000000  
 MBD 0.000000  
 Fringe rate (Hz)  
 0.000000  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. t192a  
 Exper # 16383  
 Yr:day 2019:263  
 Start 084500.00  
 Stop 085000.03  
 FRT 084730.00  
 Corr/FF/build  
 2019:263:184056  
 2019:263:190254  
 2019:253:110249  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

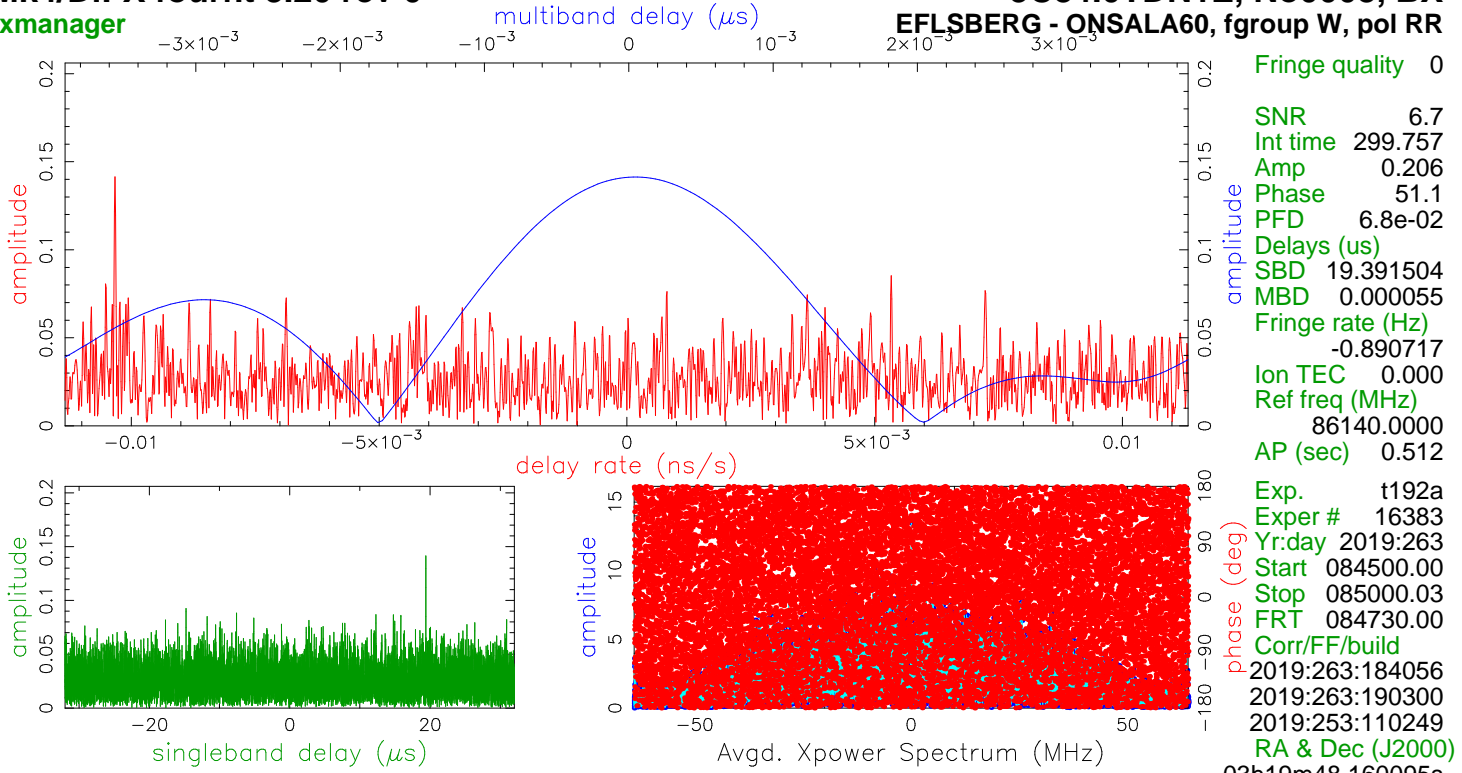
Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
U/L	586/586	586/586	586/586	586/586		
B	1000	1000	1000	1000	APs used	
B	1000	1000	1000	1000	PC freqs	
B:B	0:0	0:0	0:0	0:0	PC phase	
B:B	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	PC amp	
B	1000	1000	1000	1000		
B	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Chan ids	
B	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Tracks	
B	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Chan ids	
B	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Tracks	

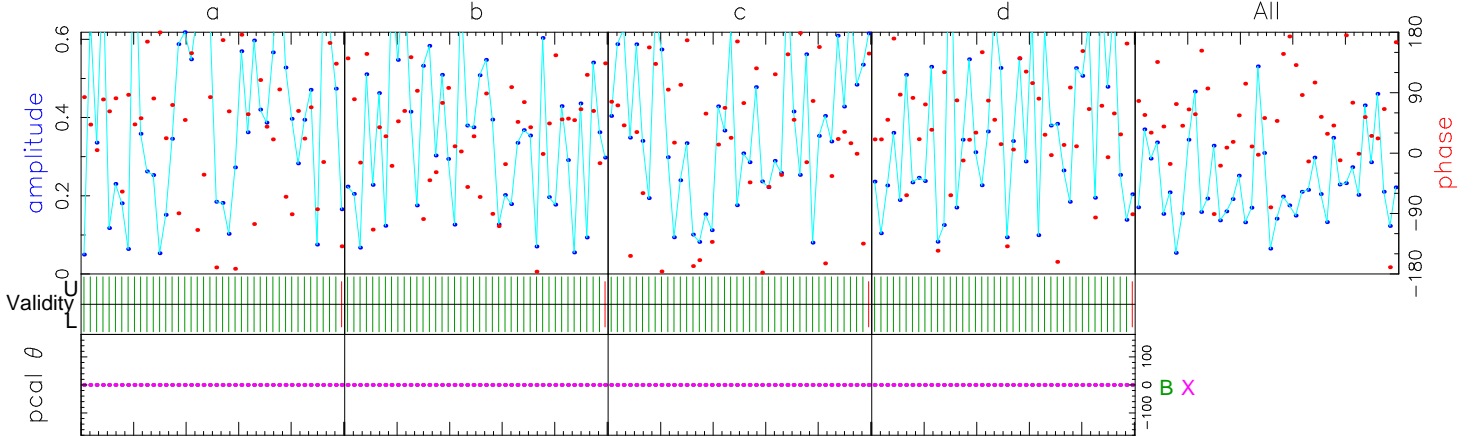
Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.3E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	9.1E-09
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	3.9E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	4.5E-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	Theor.	0.0	Amplitude	10000.000 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	0.0	0.0	0.0	Search (2048X16)	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	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s):	128	mb window (us)	-0.004 0.004
				Inc. frq. avg.	10000.000	Data rate(Mb/s):	2048	dr window (ns/s)	-0.011 0.011
						nlags:	8192 t_cohere infinite	ion window (TEC)	0.00 0.00



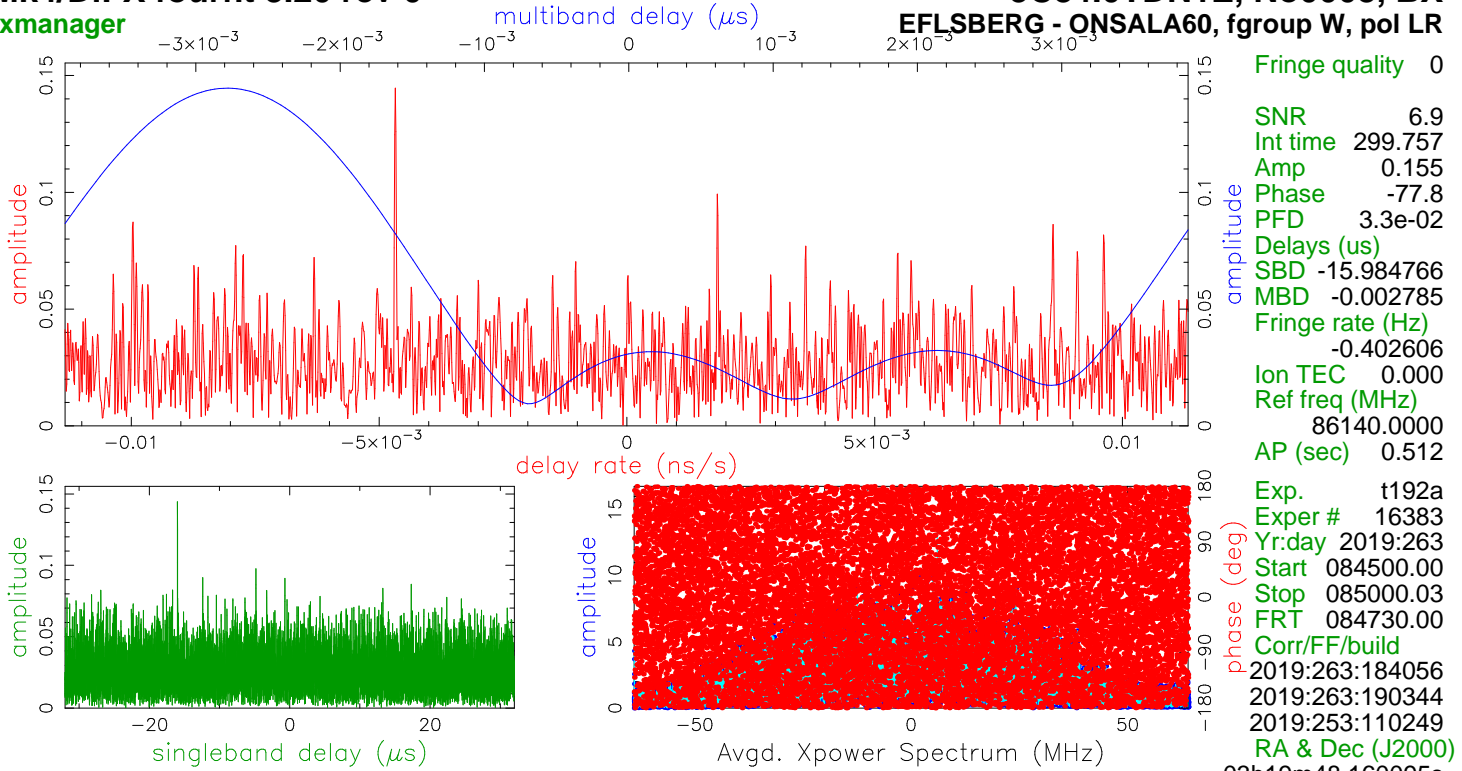
Fringe quality 0  
SNR 6.7  
Int time 299.757  
Amp 0.206  
Phase 51.1  
PFD 6.8e-02  
Delays (us)  
SBD 19.391504  
MBD 0.000055  
Fringe rate (Hz)  
-0.890717  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. t192a  
Exper # 16383  
Yr:day 2019:263  
Start 084500.00  
Stop 085000.03  
FRT 084730.00  
Corr/FF/build  
2019:263:184056  
2019:263:190300  
2019:253:110249  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



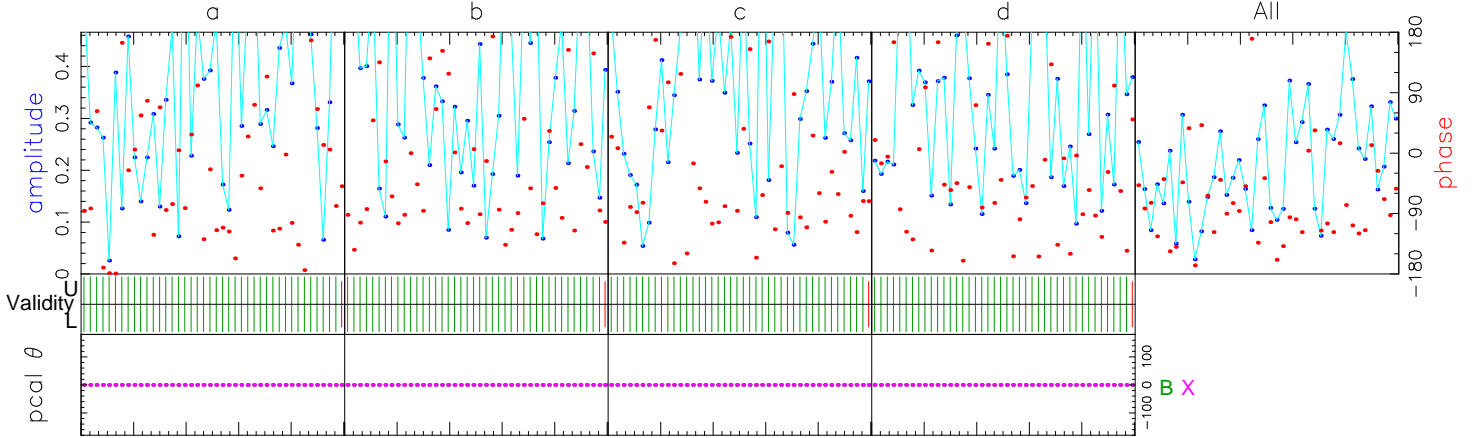
	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
U/L	586/586	586/586	586/586	586/586		
B	1000	1000	1000	1000	APs used	
X	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	PC phase	
B:X	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000		
B	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Chan ids	
X	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Tracks	
					Chan ids	
					Tracks	
Group delay (usec)(sbd)	-1.55369577499E+02	Apriori delay (usec)	-1.74760257913E+02	Resid mbdelay (usec)	5.54140E-05	+/- 1.6E-04
Sband delay (usec)	-1.55368753413E+02	Apriori clock (usec)	-5.1703148E+00	Resid sbdelay (usec)	1.93915E+01	+/- 6.4E-04
Phase delay (usec)	-1.74760256266E+02	Apriori clockrate (us/s)	-8.2399999E-07	Resid phdelay (usec)	1.64757E-06	+/- 2.7E-07
Delay rate (us/s)	-1.12354522014E-01	Apriori rate (us/s)	-1.12344181673E-01	Resid rate (us/s)	-1.03403E-05	+/- 3.2E-09
Total phase (deg)	189.1	Apriori accel (us/s/s)	-4.38833466690E-06	Resid phase (deg)	51.1	+/- 8.5

RMS Theor. Amplitude 0.206 +/- 0.031 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 64.2 55.0 Search (2048X16) 0.140 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000  
 amp/seg (%) 99.7 96.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.004 0.004  
 ph/frq (deg) 21.4 17.0 Inc. seg. avg. 0.234 Sample rate(MSamp/s): 128 dr window (ns/s) -0.011 0.011  
 amp/frq (%) 19.4 29.6 Inc. frq. avg. 0.202 Data rate(Mb/s): 2048 nlags: 8192 t\_cohere infinite ion window (TEC) 0.00 0.00  
 B: az 297.4 el 32.7 pa 49.0 X: az 296.6 el 33.2 pa 39.9 u,v (fr/asec) 854.464 -780.999 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/t192a/FRINGE/1234/No0008/BX..0TDN1E Output file: /Exps/t192a/FRINGE/1234/No0008/BX.W.12.0TDN1E



Fringe quality 0  
SNR 6.9  
Int time 299.757  
Amp 0.155  
Phase -77.8  
PFD 3.3e-02  
Delays (us)  
SBD -15.984766  
MBD -0.002785  
Fringe rate (Hz)  
-0.402606  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. t192a  
Exper # 16383  
Yr:day 2019:263  
Start 084500.00  
Stop 085000.03  
FRT 084730.00  
Corr/FF/build  
2019:263:184056  
2019:263:190344  
2019:253:110249  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec

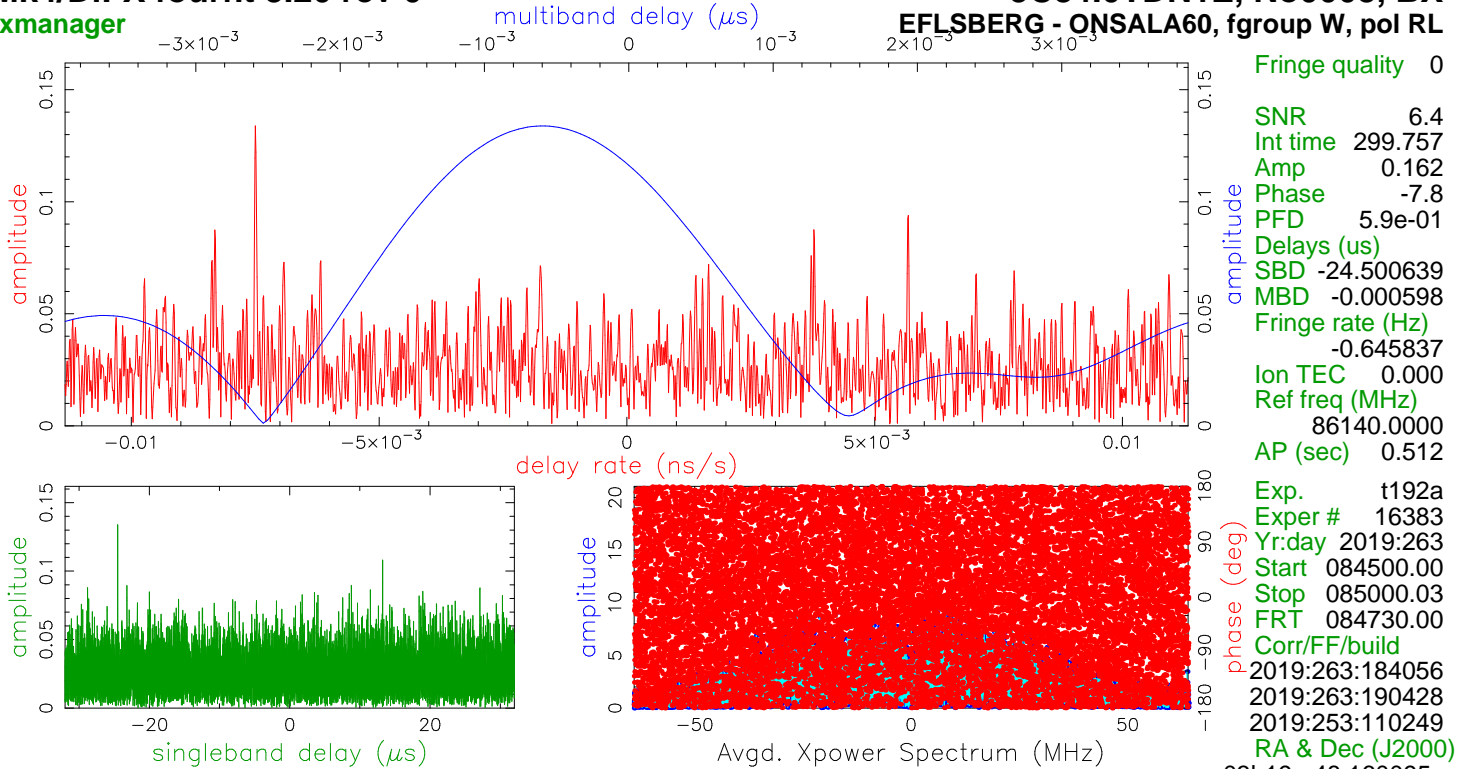


	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
U/L	586/586	586/586	586/586	586/586		
B	1000	1000	1000	1000	APs used	
X	1000	1000	1000	1000	PC freqs	
B:X	0:0	0:0	0:0	0:0	PC phase	
B:X	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000		
B	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Chan ids	
X	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Tracks	

Group delay (usec)(sbd)	-1.90747417556E+02	Apriori delay (usec)	-1.74760257913E+02	Resid mbdelay (usec)	-2.78464E-03	+/- 1.6E-04
Sband delay (usec)	-1.90745023913E+02	Apriori clock (usec)	-5.1703148E+00	Resid sbdelay (usec)	-1.59848E+01	+/- 6.3E-04
Phase delay (usec)	-1.74760260422E+02	Apriori clockrate (us/s)	-8.2399999E-07	Resid phdelay (usec)	-2.50909E-06	+/- 2.7E-07
Delay rate (us/s)	-1.12348855533E-01	Apriori rate (us/s)	-1.12344181673E-01	Resid rate (us/s)	-4.67386E-06	+/- 3.1E-09
Total phase (deg)	-299.8	Apriori accel (us/s/s)	-4.38833466690E-06	Resid phase (deg)	-77.8	+/- 8.4

ph/seg (deg)	56.0	Theor.	54.2	Amplitude	0.155 +/- 0.023	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	83.9	Search (2048X16)	0.142	Search	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -32.000 32.000
ph/frq (deg)	10.4	Interp.	0.000	Inc. seg. avg.	0.158	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	13.9	Inc. frq. avg.	0.150	Inc. frq. avg.	0.150	Sample rate(MSamp/s): 128	mb window (us) -0.004 0.004
						Data rate(Mb/s): 2048	dr window (ns/s) -0.011 0.011
						nlags: 8192 t_cohere infinite	ion window (TEC) 0.00 0.00





Fringe quality 0

SNR 6.4

Int time 299.757

Amp 0.162

Phase -7.8

PFD 5.9e-01

Delays (us)

SBD -24.500639

MBD -0.000598

Fringe rate (Hz)

-0.645837

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. t192a

Exper # 16383

Yr:day 2019:263

Start 084500.00

Stop 085000.03

FRT 084730.00

Corr/FF/build

2019:263:184056

2019:263:190428

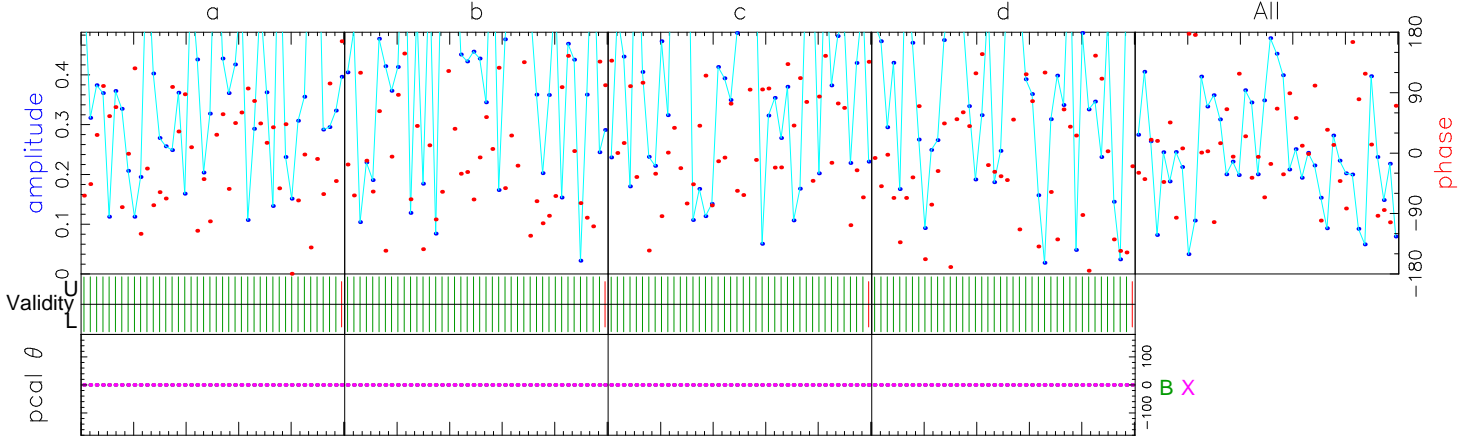
2019:253:110249

RA & Dec (J2000)

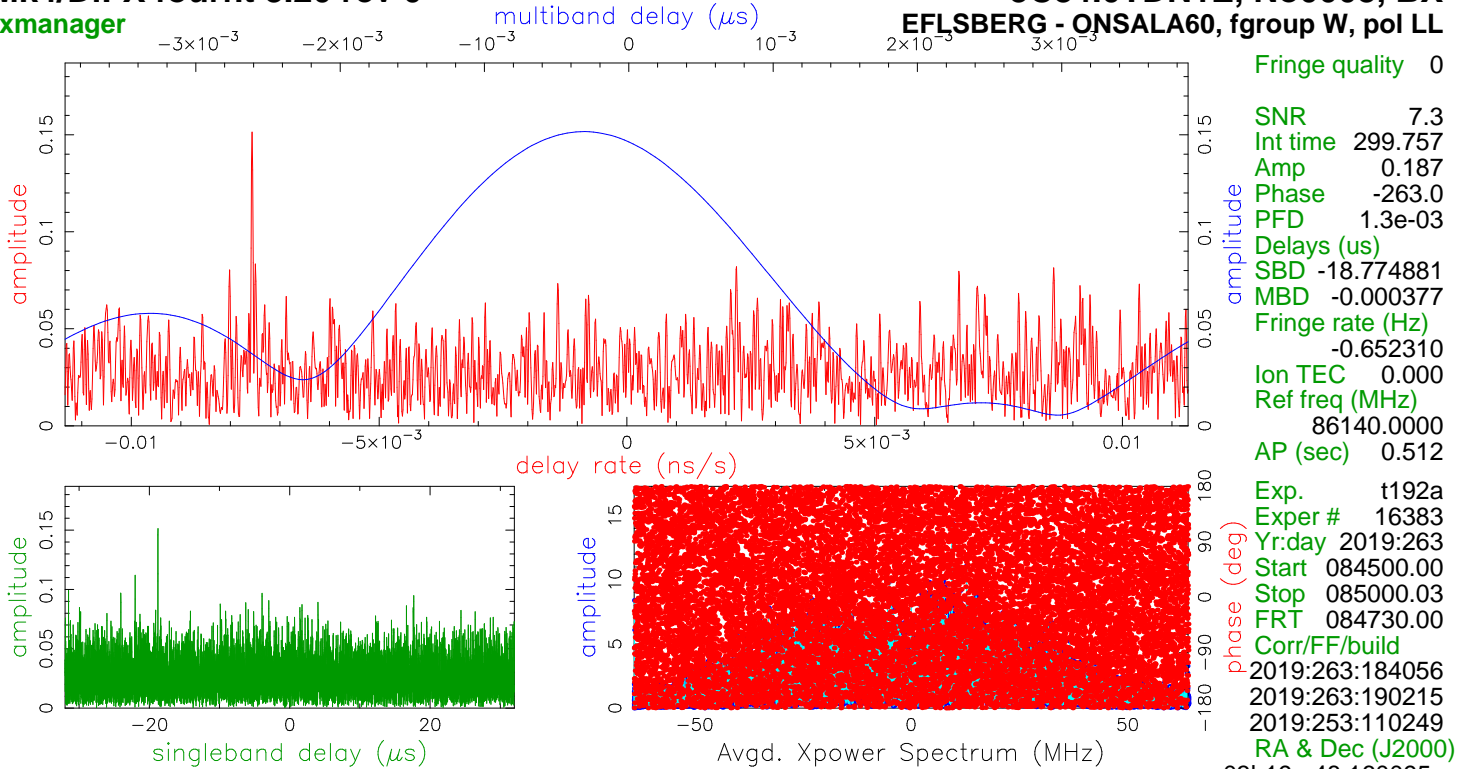
03h19m48.160095s

+41°30'42.104042"

Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec

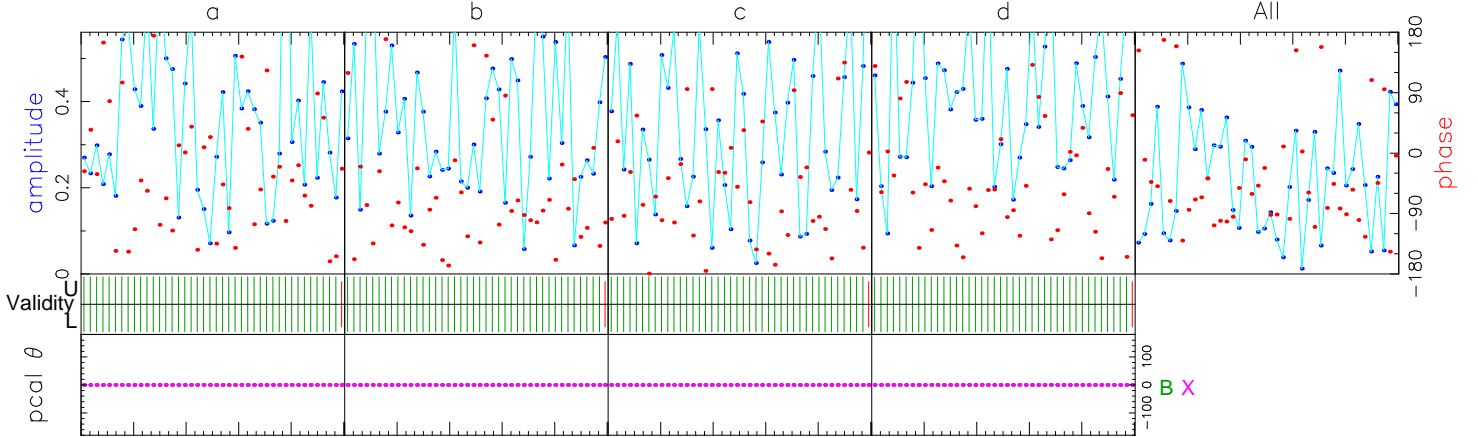


	86076.00	86204.00	86332.00	86460.00	86588.00	86716.00
U/L	586/586	586/586	586/586	586/586	586/586	586/586
B	1000	1000	1000	1000	1000	1000
X	1000	1000	1000	1000	1000	1000
B:X	0:0	0:0	0:0	0:0	0:0	0:0
B:X	0:0	0:0	0:0	0:0	0:0	0:0
B	1000	1000	1000	1000	1000	1000
X	1000	1000	1000	1000	1000	1000
B	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	W04UR,W04LR	W05UR,W05LR
X	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	W04UL,W04LL	W05UL,W05LL
Group delay (usec)(sbd)	-1.99260856120E+02	-1.99260856120E+02	-1.99260856120E+02	-1.99260856120E+02	-1.99260856120E+02	-1.99260856120E+02
Sband delay (usec)	-1.99260896663E+02	-1.99260896663E+02	-1.99260896663E+02	-1.99260896663E+02	-1.99260896663E+02	-1.99260896663E+02
Phase delay (usec)	-1.74760258163E+02	-1.74760258163E+02	-1.74760258163E+02	-1.74760258163E+02	-1.74760258163E+02	-1.74760258163E+02
Delay rate (us/s)	-1.12351679199E-01	-1.12351679199E-01	-1.12351679199E-01	-1.12351679199E-01	-1.12351679199E-01	-1.12351679199E-01
Total phase (deg)		-229.8				
Apriori delay (usec)			-1.74760257913E+02			
Apriori clock (usec)			-5.1703148E+00			
Apriori clockrate (us/s)			-8.2399999E-07			
Apriori rate (us/s)			-1.12344181673E-01			
Apriori accel (us/s/s)			-4.38833466690E-06			
Resid mbdelay (usec)			-5.98207E-04			
Resid sbdelay (usec)			-2.45006E+01			
Resid phdelay (usec)			-2.49598E-07			
Resid rate (us/s)			-7.49753E-06			
Resid phase (deg)			-7.8			
RMS	76.2	58.4	0.162 +/- 0.025			
Theor.	58.4					
Amplitude						
Search (2048X16)			0.133			
Interp.			0.000			
Inc. seg. avg.			0.193			
Inc. frq. avg.			0.155			
PCal mode:	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL
PCal rate:	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PC period (AP's)	5	5	5	5	5	5
sb window (us)	-32.000	32.000				
mb window (us)	-0.004	0.004				
dr window (ns/s)	-0.011	0.011				
ion window (TEC)	0.00	0.00				
nlags:	8192	t_cohere infinite				



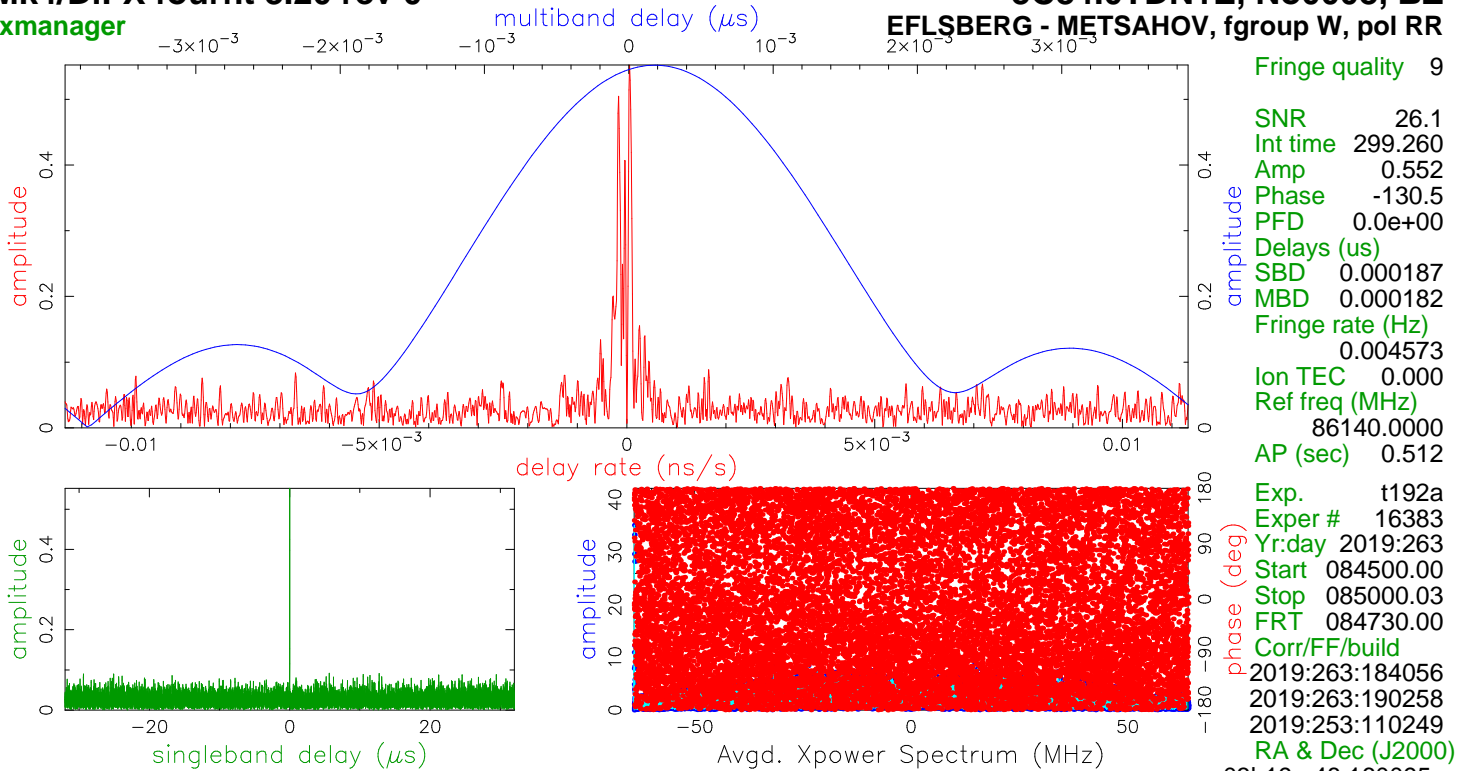
Fringe quality 0  
SNR 7.3  
Int time 299.757  
Amp 0.187  
Phase -263.0  
PFD 1.3e-03  
Delays (us)  
SBD -18.774881  
MBD -0.000377  
Fringe rate (Hz)  
-0.652310  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. t192a  
Exper # 16383  
Yr:day 2019:263  
Start 084500.00  
Stop 085000.03  
FRT 084730.00  
Corr/FF/build  
2019:263:184056  
2019:263:190215  
2019:253:110249  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



86076.00	86204.00	86332.00	86460.00	86600.00	86738.00	86876.00		
-71.7	-101.8	-76.0	-73.9	-73.9	-73.9	-73.9		
0.2	0.2	0.2	0.2	0.2	0.2	0.2		
731.1	3386.9	13565.3	6476.9	6476.9	6476.9	6476.9		
U/L 586/586	586/586	586/586	586/586	586/586	586/586	586/586		
B 1000	1000	1000	1000	1000	1000	1000		
X 1000	1000	1000	1000	1000	1000	1000		
B:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B 1000	1000	1000	1000	1000	1000	1000		
X 1000	1000	1000	1000	1000	1000	1000		
B W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	W04UL,W04LL	W05UL,W05LL	W06UL,W06LL		
X W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	W04UL,W04LL	W05UL,W05LL	W06UL,W06LL		
Group delay (usec)(sbd)	-1.93534072631E+02	Apriori delay (usec)	-1.74760257913E+02	Resid mbdelay (usec)	-3.77218E-04	+/- 1.5E-04		
Sband delay (usec)	-1.93535139913E+02	Apriori clock (usec)	-5.1703148E+00	Resid sbdelay (usec)	-1.87749E+01	+/- 5.9E-04		
Phase delay (usec)	-1.74760260590E+02	Apriori clockrate (us/s)	-8.2399999E-07	Resid phdelay (usec)	-2.67681E-06	+/- 2.5E-07		
Delay rate (us/s)	-1.12351754351E-01	Apriori rate (us/s)	-1.12344181673E-01	Resid rate (us/s)	-7.57268E-06	+/- 2.9E-09		
Total phase (deg)	-125.0	Apriori accel (us/s/s)	-4.38833466690E-06	Resid phase (deg)	-263.0	+/- 7.8		
RMS	Theor.	Amplitude	0.187 +/- 0.026	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
67.3	50.8	Search (2048X16)	0.150	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000	
93.4	88.6	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.004 0.004
17.5	15.7	Inc. seg. avg.	0.192	Sample rate(MSamp/s):	128	dr window (ns/s)	-0.011 0.011	
18.5	27.3	Inc. frq. avg.	0.181	Data rate(Mb/s):	2048	ion window (TEC)	0.00 0.00	
B: az 297.4 el 32.7 pa 49.0	X: az 296.6 el 33.2 pa 39.9	u,v (fr/asec)	854.464 -780.999				simultaneous interpolator	





Fringe quality 9

SNR 26.1

Int time 299.260

Amp 0.552

Phase -130.5

PFD 0.0e+00

Delays (us)

SBD 0.000187

MBD 0.000182

Fringe rate (Hz) 0.004573

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.512

Exp. t192a

Exper # 16383

Yr:day 2019:263

Start 084500.00

Stop 085000.03

FRT 084730.00

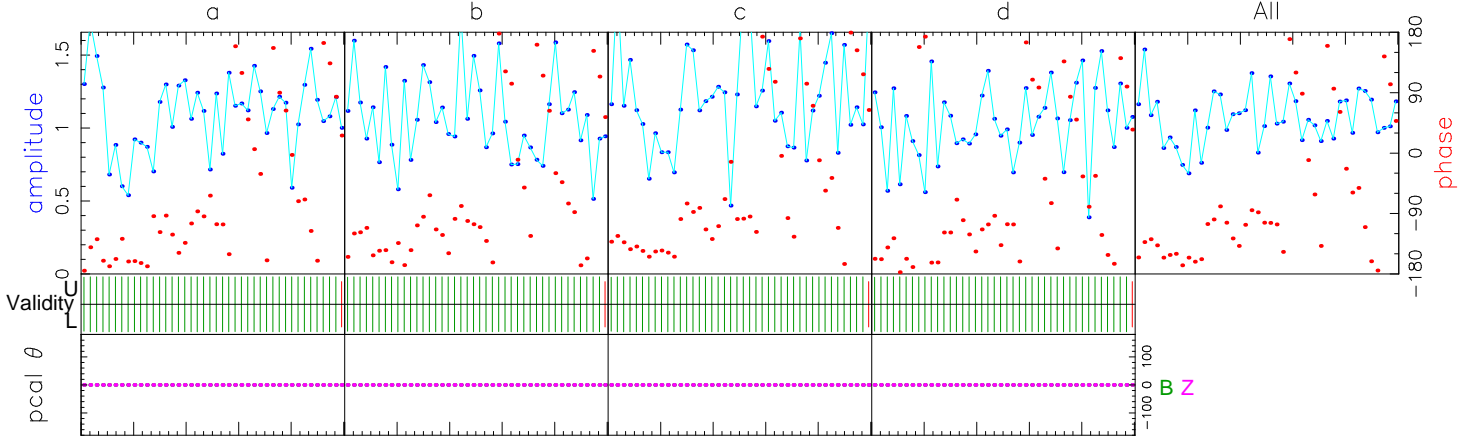
Corr/FF/build 2019:263:184056

2019:263:190258

2019:253:110249

RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



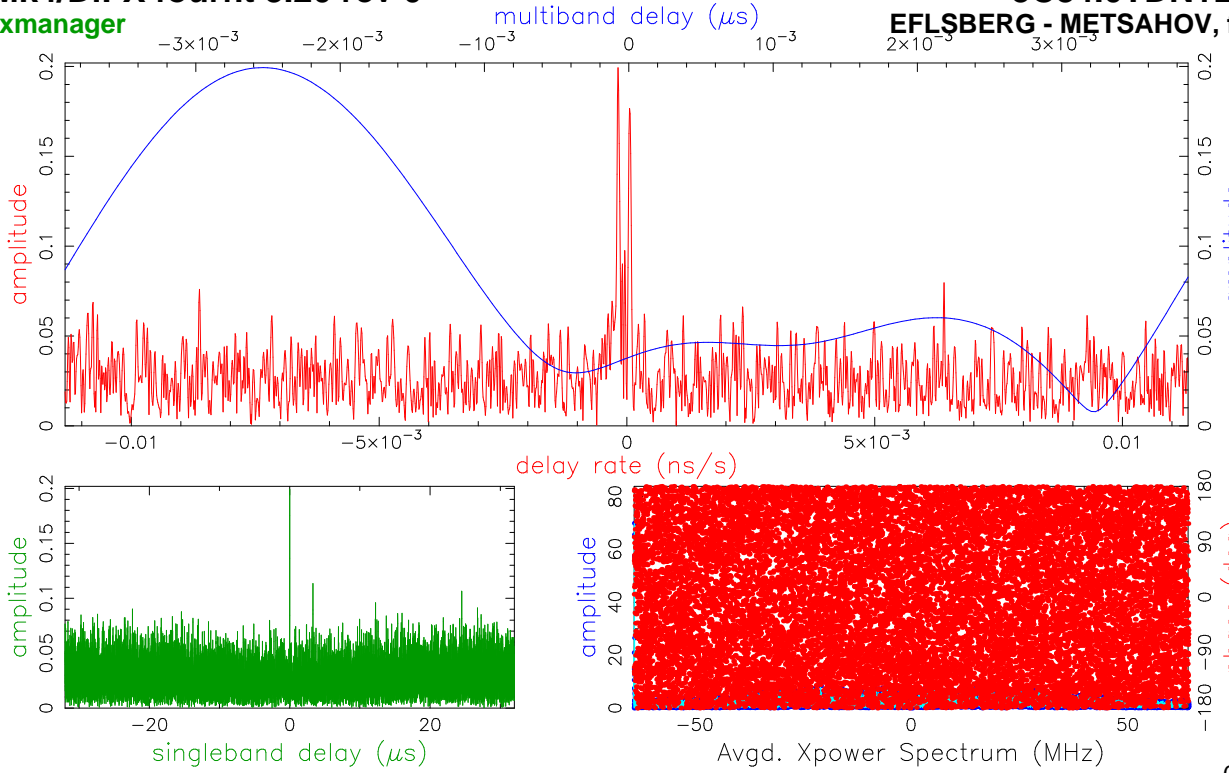
86076.00	86204.00	86332.00	86460.00	86140.00	All
-138.1	-124.2	-123.3	-139.0	-130.5	-130.5
0.5	0.6	0.6	0.5	0.6	0.6
8193.3	8193.1	8193.2	8192.6	8193.0	8193.0
U/L 586/586	586/586	586/586	586/586	586/586	
B 1000	1000	1000	1000	1000	
Z 1000	1000	1000	1000	1000	
B:Z 0:0	0:0	0:0	0:0	0:0	
B:Z 0:0	0:0	0:0	0:0	0:0	
B 1000	1000	1000	1000	1000	
Z 1000	1000	1000	1000	1000	
B W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR		
Z W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR		

Group delay (usec)(sbd)	1.15895868888E+03	Apriori delay (usec)	1.15895850646E+03	Resid mbdelay (usec)	1.82414E-04	+/-	4.3E-05
Sband delay (usec)	1.15895869321E+03	Apriori clock (usec)	1.6901711E+01	Resid sbdelay (usec)	1.86750E-04	+/-	1.6E-04
Phase delay (usec)	1.15895850226E+03	Apriori clockrate (us/s)	-2.0000000E-07	Resid phdelay (usec)	-4.20739E-06	+/-	7.1E-08
Delay rate (us/s)	-1.80230652446E-01	Apriori rate (us/s)	-1.80230705533E-01	Resid rate (us/s)	5.30873E-08	+/-	8.2E-10
Total phase (deg)	138.3	Apriori accel (us/s/s)	-1.32794985720E-05	Resid phase (deg)	-130.5	+/-	2.2

ph/seg (deg)	69.0	Theor.	14.2	Amplitude	0.552 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	99.1	Search (2048X16)	0.545	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000
ph/frq (deg)	10.5	Interp.	1.039	Inc. seg. avg.	1.039	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	9.6	Inc. frq. avg.	0.555	Inc. frq. avg.	0.555	Sample rate(MSamp/s):	128	mb window (us)	-0.004 0.004

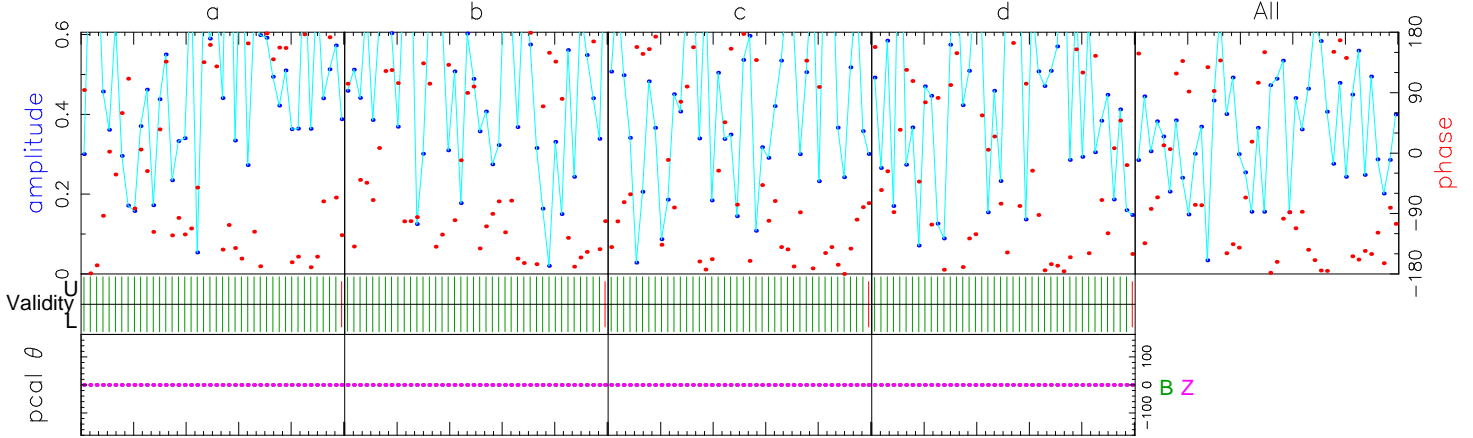
B: az 297.4 el 32.7 pa 49.0 Z: az 303.9 el 29.1 pa 33.3 u,v (fr/asec) 1361.454 -1574.336 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/t192a/FRINGE/1234/No0008/BZ..0TDN1E Output file: /Exps/t192a/FRINGE/1234/No0008/BZ.W.10.0TDN1E



Fringe quality 9  
SNR 9.6  
Int time 299.260  
Amp 0.202  
Phase -152.5  
PFD 8.3e-12  
Delays (us)  
SBD -0.000924  
MBD -0.002507  
Fringe rate (Hz)  
-0.015008  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. t192a  
Exper # 16383  
Yr:day 2019:263  
Start 084500.00  
Stop 085000.03  
FRT 084730.00  
Corr/FF/build  
2019:263:184056  
2019:263:190341  
2019:263:110249  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec

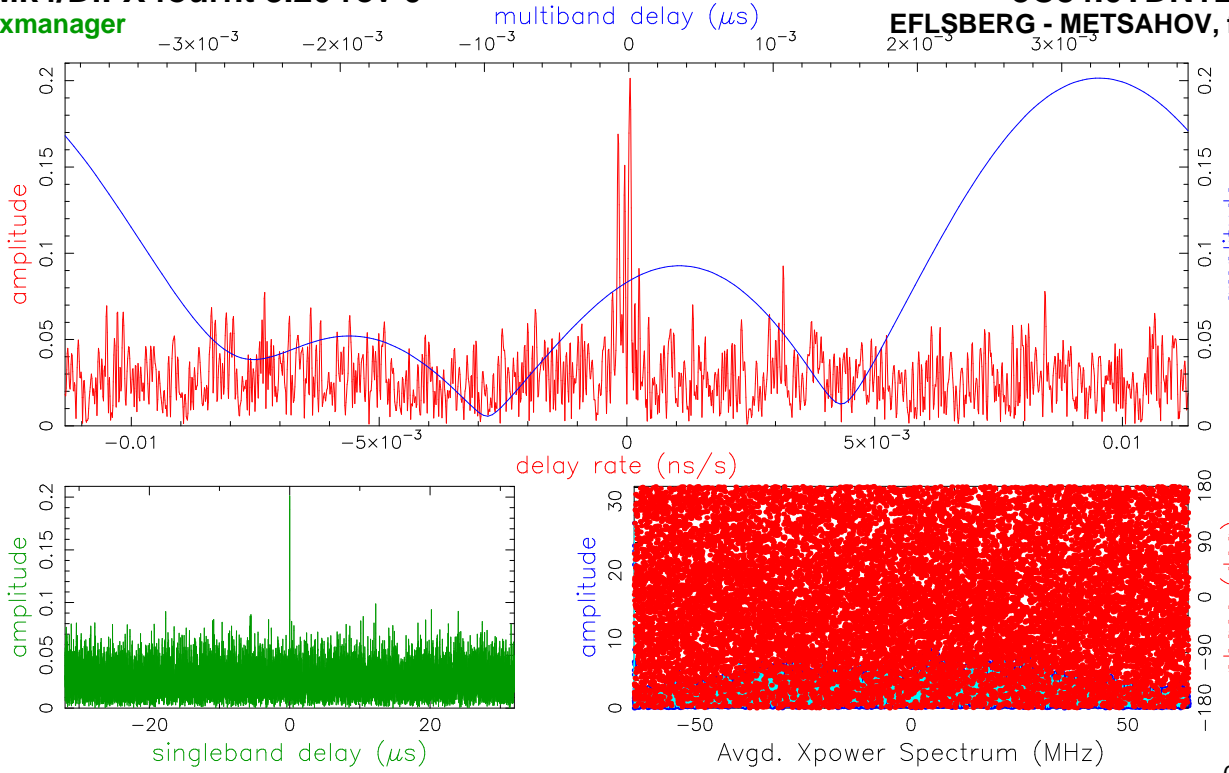


	86076.00	86204.00	86332.00	86460.00	86588.00	86716.00
U/L	586/586	586/586	586/586	586/586	586/586	586/586
B	1000	1000	1000	1000	1000	1000
Z	1000	1000	1000	1000	1000	1000
B:Z	0:0	0:0	0:0	0:0	0:0	0:0
B:Z	0:0	0:0	0:0	0:0	0:0	0:0
B	1000	1000	1000	1000	1000	1000
Z	1000	1000	1000	1000	1000	1000
B	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	W04UL,W04LL	W05UL,W05LL
Z	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	W04UR,W04LR	W05UR,W05LR

Group delay (usec)(sbd)	1.15895599922E+03	Apriori delay (usec)	1.15895850646E+03	Resid mbdelay (usec)	-2.50724E-03	+/-	1.2E-04
Sband delay (usec)	1.15895758271E+03	Apriori clock (usec)	1.6901711E+01	Resid sbdelay (usec)	-9.23750E-04	+/-	4.5E-04
Phase delay (usec)	1.15895850155E+03	Apriori clockrate (us/s)	-2.0000000E-07	Resid phdelay (usec)	-4.91662E-06	+/-	1.9E-07
Delay rate (us/s)	-1.80230879767E-01	Apriori rate (us/s)	-1.80230705533E-01	Resid rate (us/s)	-1.74234E-07	+/-	2.2E-09
Total phase (deg)	116.3	Apriori accel (us/s/s)	-1.32794985720E-05	Resid phase (deg)	-152.5	+/-	6.0

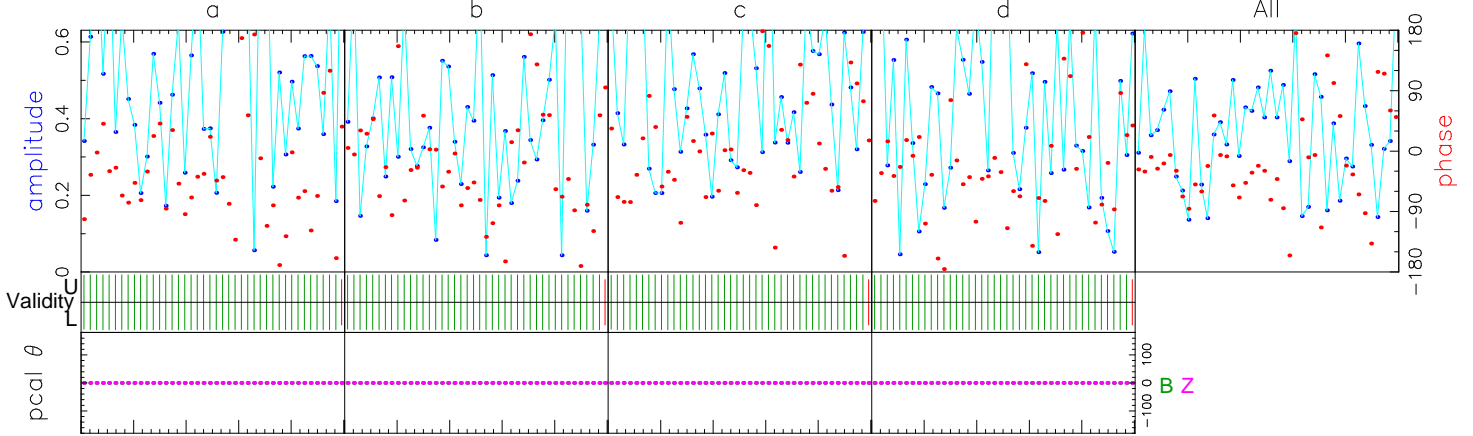
ph/seg (deg)	RMS 71.4	Theor. 38.9	Amplitude Search (2048X16)	0.202 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-32.000	32.000
amp/seg (%)	104.4	67.8	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.004	0.004
ph/frq (deg)	13.2	12.0	Inc. seg. avg.	0.293	Bits/sample: 2x2	Sample rate(MSamp/s): 128	dr window (ns/s)	-0.011	0.011
amp/frq (%)	26.9	20.9	Inc. frq. avg.	0.197	Data rate(Mb/s): 2048	nlags: 8192 t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 297.4 el 32.7 pa 49.0 Z: az 303.9 el 29.1 pa 33.3 u,v (fr/asec) 1361.454 -1574.336 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/t192a/FRINGE/1234/No0008/BZ\_.0TDN1E Output file: /Exps/t192a/FRINGE/1234/No0008/BZ.W.16.0TDN1E



Fringe quality 9  
SNR 9.9  
Int time 299.260  
Amp 0.210  
Phase -33.9  
PFD 1.8e-13  
Delays (us)  
SBD 0.002394  
MBD 0.003214  
Fringe rate (Hz) 0.006160  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512  
Exp. t192a  
Exper # 16383  
Yr:day 2019:263  
Start 084500.00  
Stop 085000.03  
FRT 084730.00  
Corr/FF/build  
2019:263:184056  
2019:263:190425  
2019:253:110249  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec

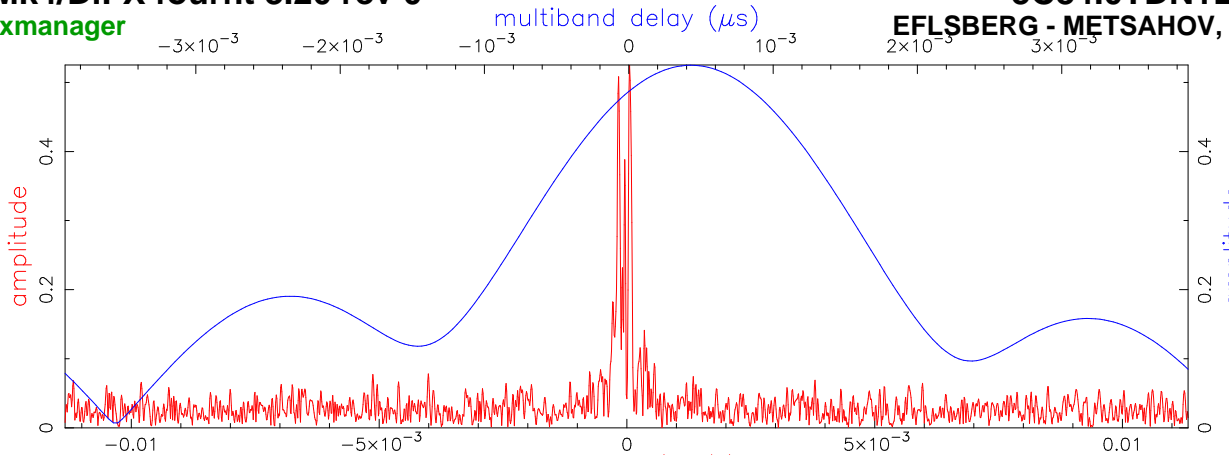


	86076.00	86204.00	86332.00	86460.00	86600.00	86738.00
U/L	586/586	586/586	586/586	586/586	586/586	586/586
B	1000	1000	1000	1000	1000	1000
Z	1000	1000	1000	1000	1000	1000
B:Z	0:0	0:0	0:0	0:0	0:0	0:0
B:Z	0:0	0:0	0:0	0:0	0:0	0:0
B	1000	1000	1000	1000	1000	1000
Z	1000	1000	1000	1000	1000	1000
B	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	W04UR,W04LR	W05UR,W05LR
Z	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	W04UL,W04LL	W05UL,W05LL

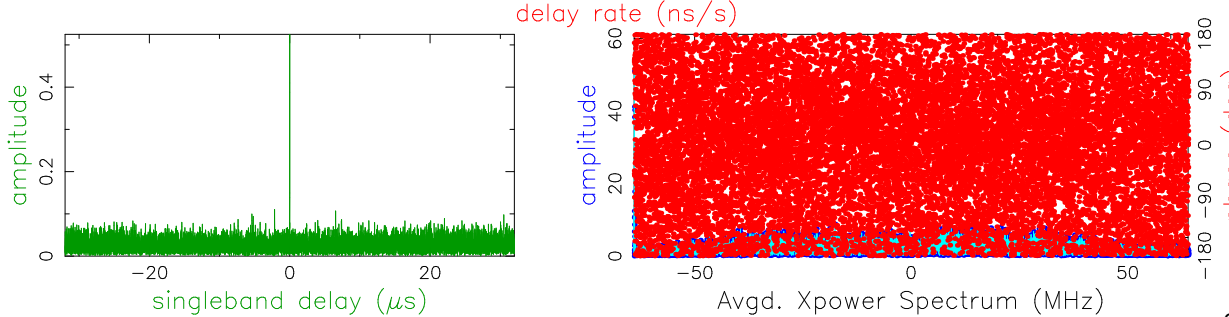
Group delay (usec)(sbd)	1.15896172063E+03	Apriori delay (usec)	1.15895850646E+03	Resid mbdelay (usec)	3.21417E-03	+/-	1.1E-04
Sband delay (usec)	1.15896090096E+03	Apriori clock (usec)	1.6901711E+01	Resid sbdelay (usec)	2.39450E-03	+/-	4.3E-04
Phase delay (usec)	1.15895850537E+03	Apriori clockrate (us/s)	-2.0000000E-07	Resid phdelay (usec)	-1.09248E-06	+/-	1.9E-07
Delay rate (us/s)	-1.80230634023E-01	Apriori rate (us/s)	-1.80230705533E-01	Resid rate (us/s)	7.15098E-08	+/-	2.1E-09
Total phase (deg)	234.9	Apriori accel (us/s/s)	-1.32794985720E-05	Resid phase (deg)	-33.9	+/-	5.8

ph/seg (deg)	70.1	Theor.	37.3	Amplitude	0.210 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	102.4	Search (2048X16)	0.195	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000
ph/frq (deg)	20.6	Interp.	0.000	Inc. seg. avg.	0.304	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	12.0	Inc. frq. avg.	0.204	Inc. frq. avg.	0.204	Sample rate (MSamp/s):	128	mb window (us)	-0.004 0.004
						Data rate (Mb/s):	2048	dr window (ns/s)	-0.011 0.011
						nlags:	8192	ion window (TEC)	0.00 0.00

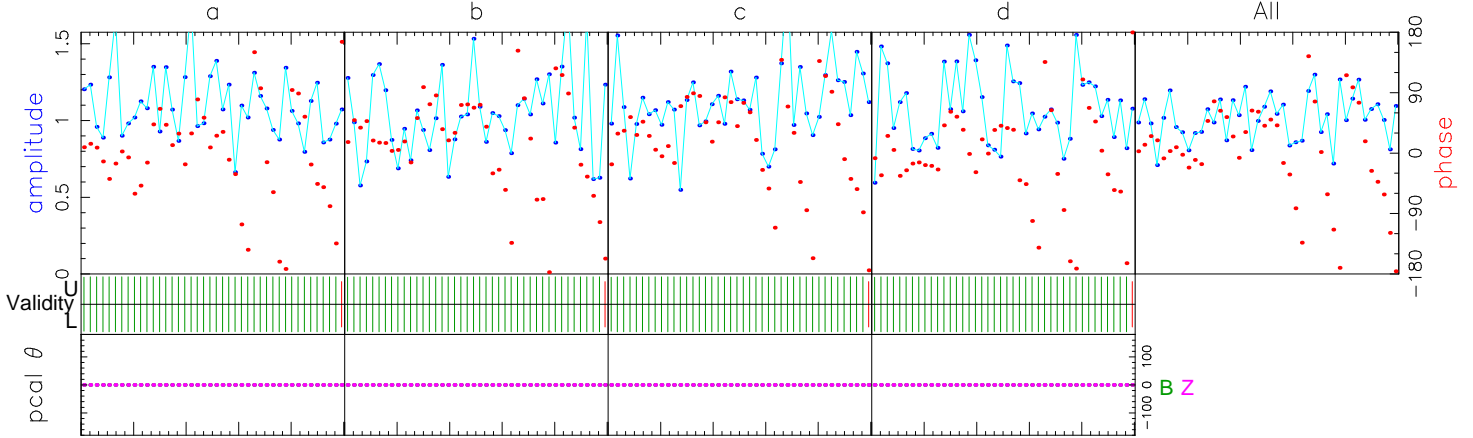
B: az 297.4 el 32.7 pa 49.0 Z: az 303.9 el 29.1 pa 33.3 u,v (fr/asec) 1361.454 -1574.336 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/t192a/FRINGE/1234/No0008/BZ..0TDN1E Output file: /Exps/t192a/FRINGE/1234/No0008/BZ.W2.0TDN1E



Fringe quality 8  
SNR 24.8  
Int time 299.260  
Amp 0.525  
Phase 19.4  
PFD 0.0e+00  
Delays (us)  
SBD 0.000222  
MBD 0.000435  
Fringe rate (Hz) 0.004692  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512  
Exp. t192a  
Exper # 16383  
Yr:day 2019:263  
Start 084500.00  
Stop 085000.03  
FRT 084730.00  
Corr/FF/build  
2019:263:184056  
2019:263:190215  
2019:253:110249  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

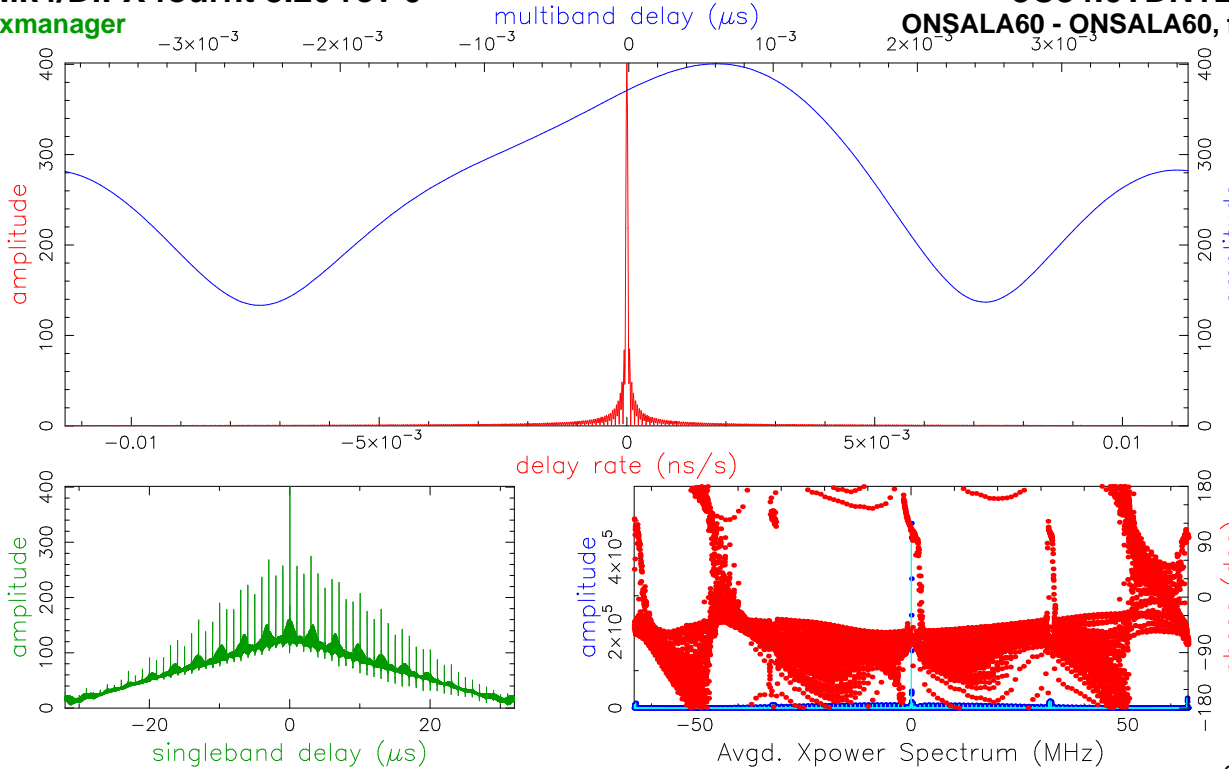


Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



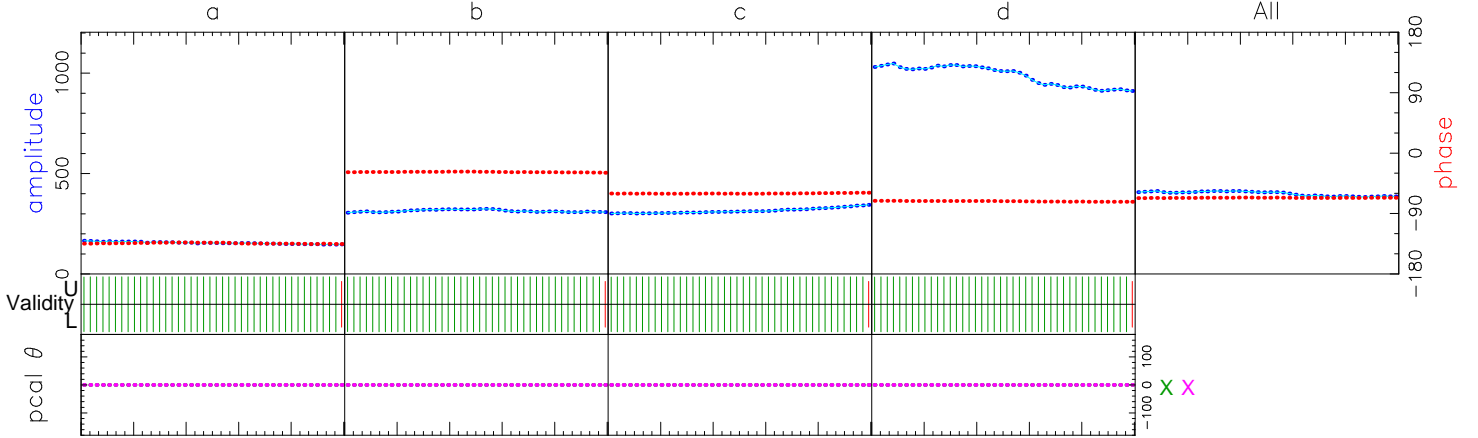
86076.00	86204.00	86332.00	86460.00	86140.00	86193.00
4.0	34.4	36.3	2.0	2.0	2.0
0.5	0.5	0.6	0.5	0.5	0.5
8193.0	8193.2	8193.1	8192.9	8193.0	8193.0
U/L 586/586	586/586	586/586	586/586	586/586	586/586
B 1000	1000	1000	1000	1000	1000
Z 1000	1000	1000	1000	1000	1000
B:Z 0:0	0:0	0:0	0:0	0:0	0:0
B:Z 0:0	0:0	0:0	0:0	0:0	0:0
B 1000	1000	1000	1000	1000	1000
Z 1000	1000	1000	1000	1000	1000
B W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	W00UL,W00LL	W01UL,W01LL
Z W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	W00UL,W00LL	W01UL,W01LL
Group delay (usec)(sbd)	1.15895894147E+03	Apriori delay (usec)	1.15895850646E+03	Resid mbdelay (usec)	4.35008E-04 +/- 4.5E-05
Sband delay (usec)	1.15895872871E+03	Apriori clock (usec)	1.6901711E+01	Resid sbdelay (usec)	2.22250E-04 +/- 1.7E-04
Phase delay (usec)	1.15895850709E+03	Apriori clockrate (us/s)	-2.0000000E-07	Resid phdelay (usec)	6.25360E-07 +/- 7.4E-08
Delay rate (us/s)	-1.80230651061E-01	Apriori rate (us/s)	-1.80230705533E-01	Resid rate (us/s)	5.44718E-08 +/- 8.6E-10
Total phase (deg)	288.2	Apriori accel (us/s/s)	-1.32794985720E-05	Resid phase (deg)	19.4 +/- 2.3
RMS	Theor.	Amplitude	0.525 +/- 0.021	Pcal mode:	MANUAL, MANUAL
69.5	14.9	Search (2048X16)	0.523	Pcal rate:	0.000E+00, 0.000E+00 (us/s)
97.8	26.1	Interp.	0.000	Bits/sample:	2x2
22.9	4.6	Inc. seg. avg.	0.984	Sample rate(MSamp/s):	128
6.4	8.0	Inc. frq. avg.	0.545	Data rate(Mb/s):	2048
B: az 297.4 el 32.7 pa 49.0	Z: az 303.9 el 29.1 pa 33.3	u,v (fr/asec)	1361.454 -1574.336	nlags:	8192 t_cohere infinite
Control file: cf_1234_gmva	Input file: /Exps/t192a/FRINGE/1234/No0008/BZ..0TDN1E	Output file:	/Exps/t192a/FRINGE/1234/No0008/BZ.W.4.0TDN1E	simultaneous interpolator	

Validity  
pcal θ  
B Z  
All  
86076.00 86204.00 86332.00 86460.00 Freq (MHz) All  
4.0 34.4 36.3 2.0 Phase 19.4  
0.5 0.5 0.6 0.5 Ampl. 0.5  
8193.0 8193.2 8193.1 8192.9 Sbd box 8193.1  
U/L 586/586 586/586 586/586 586/586 APs used  
B 1000 1000 1000 1000 PC freqs  
Z 1000 1000 1000 1000 PC freqs  
B:Z 0:0 0:0 0:0 0:0 PC phase  
B:Z 0:0 0:0 0:0 0:0 Mani PC  
B 1000 1000 1000 1000 PC amp  
Z 1000 1000 1000 1000  
B W00UL,W00LL W01UL,W01LL W02UL,W02LL W03UL,W03LL Chan ids  
Z W00UL,W00LL W01UL,W01LL W02UL,W02LL W03UL,W03LL Tracks  
Tracks  
Chan ids  
Tracks



Fringe quality 5  
SNR 19006.0  
Int time 299.792  
Amp 401.406  
Phase 293.4  
PFD 0.0e+00  
Delays (us)  
SBD 0.031747  
MBD 0.000605  
Fringe rate (Hz)  
0.000010  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. t192a  
Exper # 16383  
Yr:day 2019:263  
Start 084500.00  
Stop 085000.03  
FRT 084730.00  
Corr/FF/build  
2019:263:184056  
2019:263:190334  
2019:253:110249  
RA & Dec (J2000)  
03h19m48.160095s  
+41°30'42.104042"

Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



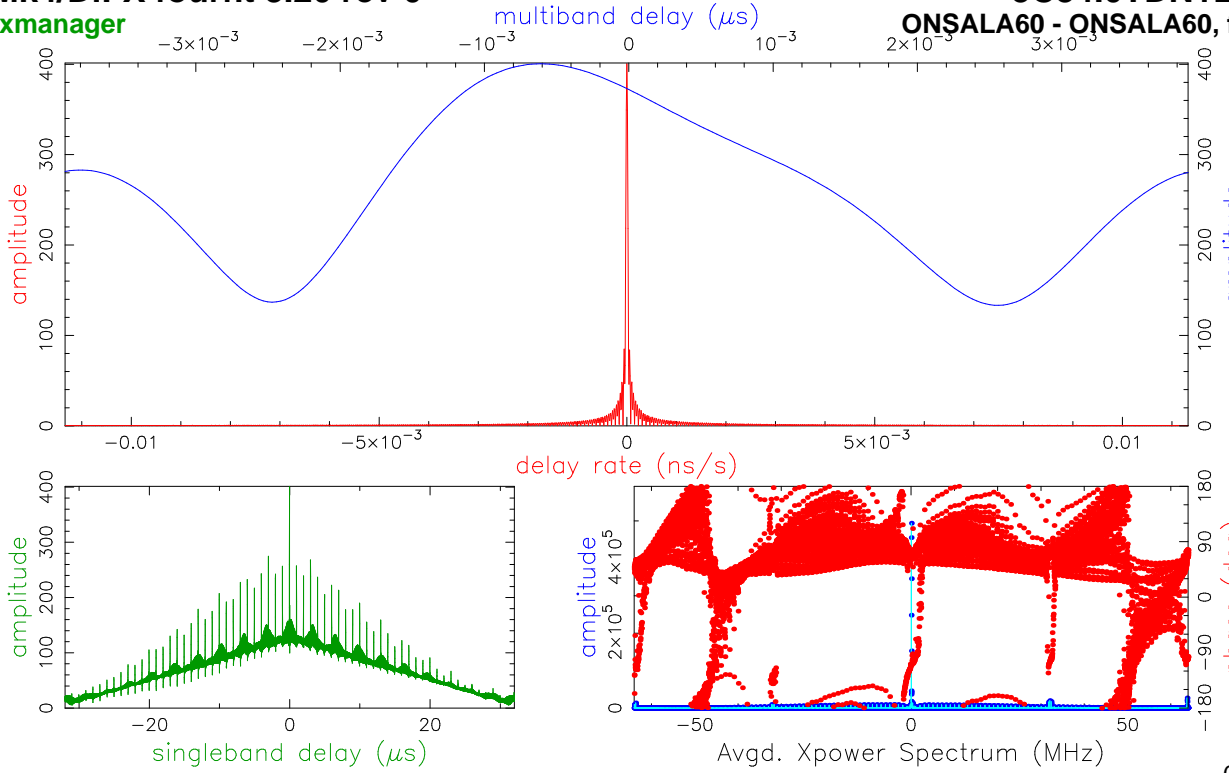
	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
	-134.1	-28.2	-60.0	-71.7	Phase	-66.6
	155.0	314.2	315.2	987.2	Ampl.	442.9
	8201.9	8200.9	8201.2	8201.1	Sbd box	8201.1
U/L	586/586	586/586	586/586	586/586	APs used	
X	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	PC freqs	
X:X	0:0	0:0	0:0	0:0	PC phase	
X:X	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000		
X	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Chan ids	
X	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Tracks	
					Chan ids	
					Tracks	

Group delay (usec)(sbd)	3.185468750000E-02	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	6.04687E-04	+/-	5.9E-08
Sband delay (usec)	3.174725000000E-02	Apriori clock (usec)	0.000000000000E+00	Resid sbdelay (usec)	3.17473E-02	+/-	2.3E-07
Phase delay (usec)	-2.14677144954E-06	Apriori clockrate (us/s)	0.000000000000E+00	Resid phdelay (usec)	-2.14677E-06	+/-	9.7E-11
Delay rate (us/s)	1.19746237710E-10	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	1.19746E-10	+/-	1.1E-12
Total phase (deg)	293.4	Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	293.4	+/-	0.0

ph/seg (deg)	0.2	0.0	Amplitude	401.406 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	2.7	0.0	Search (2048X16)	399.109	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000
ph/frq (deg)	55.2	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	80.6	0.0	Inc. seg. avg.	400.505	Sample rate(MSamp/s):	128	mb window (us)	-0.004 0.004
			Inc. frq. avg.	442.911	Data rate(Mb/s):	2048	dr window (ns/s)	-0.011 0.011
							ion window (TEC)	0.00 0.00

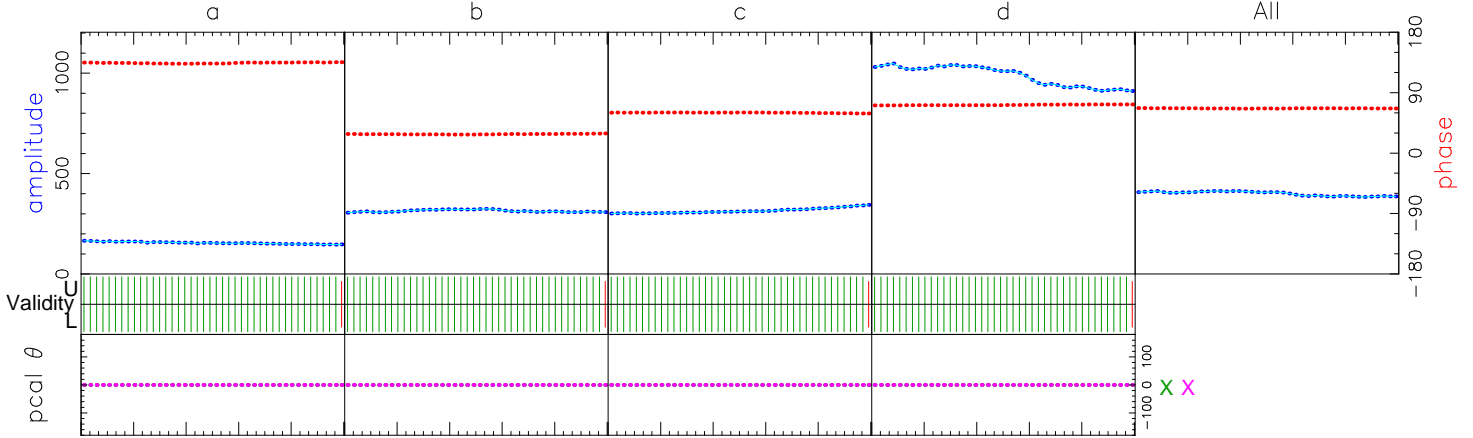
X: az 296.6 el 33.2 pa 39.9 X: az 296.6 el 33.2 pa 39.9 u,v (fr/asec) 0.000 0.000 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/t192a/FRINGE/1234/No0008/XX..0TDN1E Output file: /Exps/t192a/FRINGE/1234/No0008/XX.W.13.0TDN1E





Fringe quality 5  
 SNR 19006.0  
 Int time 299.792  
 Amp 401.406  
 Phase -293.4  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.031747  
 MBD -0.000605  
 Fringe rate (Hz)  
 -0.000010  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. t192a  
 Exper # 16383  
 Yr:day 2019:263  
 Start 084500.00  
 Stop 085000.03  
 FRT 084730.00  
 Corr/FF/build  
 2019:263:184056  
 2019:263:190415  
 2019:253:110249  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

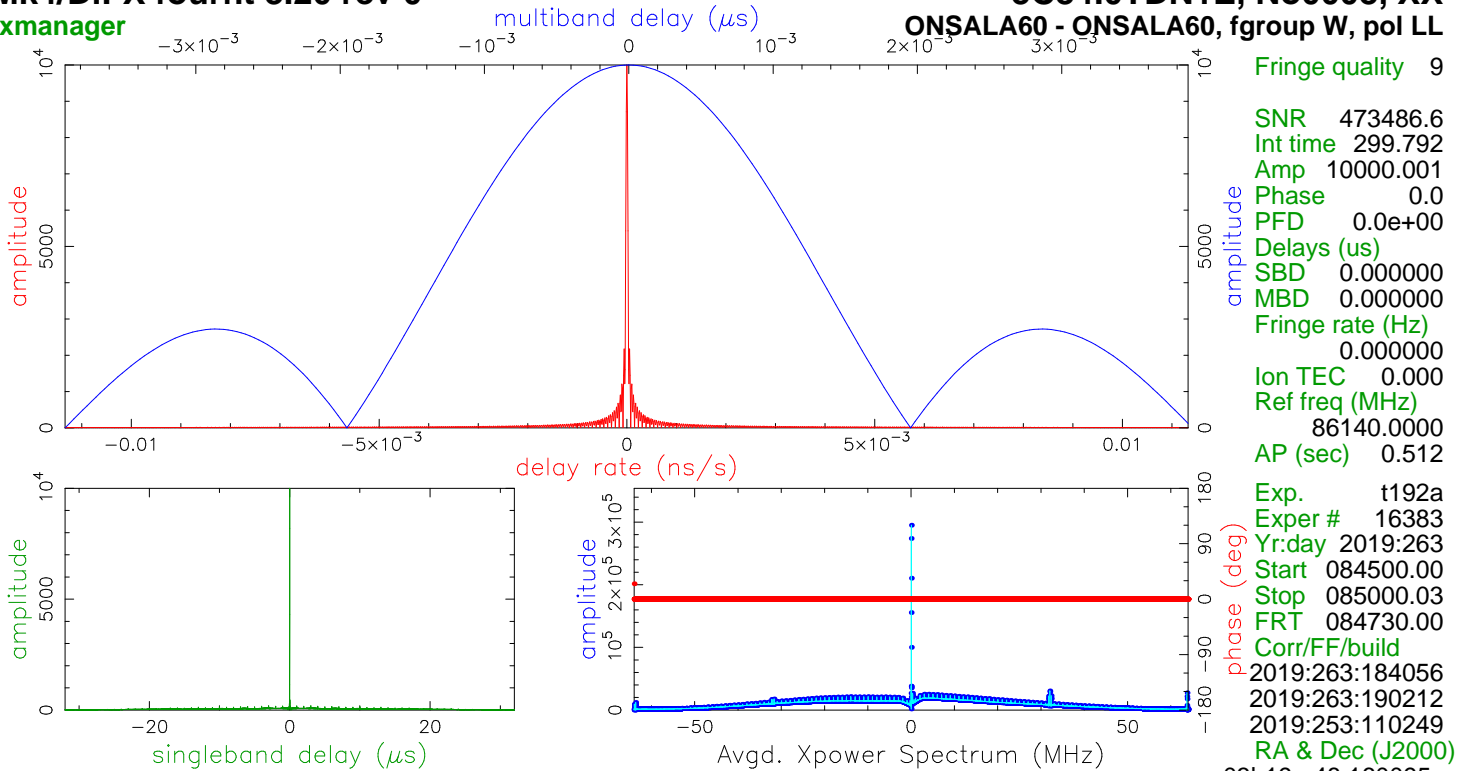
Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



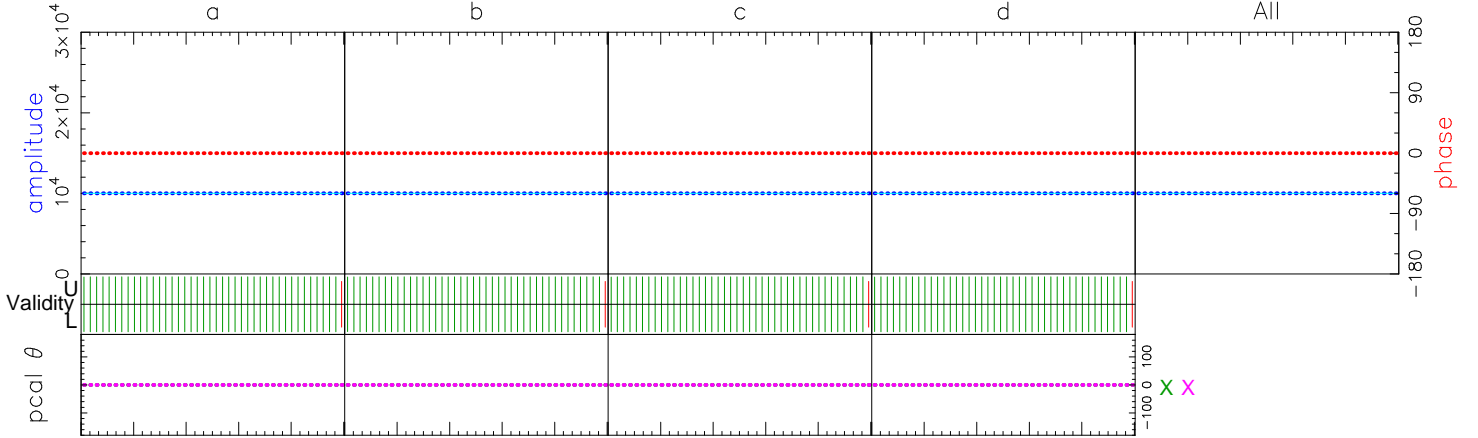
	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
U/L	586/586	586/586	586/586	586/586		
X	1000	1000	1000	1000	APs used	
X:X	0:0	0:0	0:0	0:0	PC freqs	
X:X	0:0	0:0	0:0	0:0	PC phase	
X	1000	1000	1000	1000	Mani PC	
X	1000	1000	1000	1000	PC amp	
X	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Chan ids	
X	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Tracks	

Group delay (usec)(sbd)	-3.18546875000E-02	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-6.04687E-04	+/- 5.9E-08
Sband delay (usec)	-3.17472500000E-02	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-3.17473E-02	+/- 2.3E-07
Phase delay (usec)	2.14677144955E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	2.14677E-06	+/- 9.7E-11
Delay rate (us/s)	-1.19746237710E-10	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-1.19746E-10	+/- 1.1E-12
Total phase (deg)	-293.4	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-293.4	+/- 0.0

ph/seg (deg)	0.2	0.0	Search (2048X16)	399.109	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	2.7	0.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -32.000 32.000
ph/frq (deg)	55.2	0.0	Inc. seg. avg.	400.505	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	80.6	0.0	Inc. frq. avg.	442.911	Sample rate(MSamp/s): 128	mb window (us) -0.004 0.004
					Data rate(Mb/s): 2048	dr window (ns/s) -0.011 0.011
					nlags: 8192 t_cohere infinite	ion window (TEC) 0.00 0.00



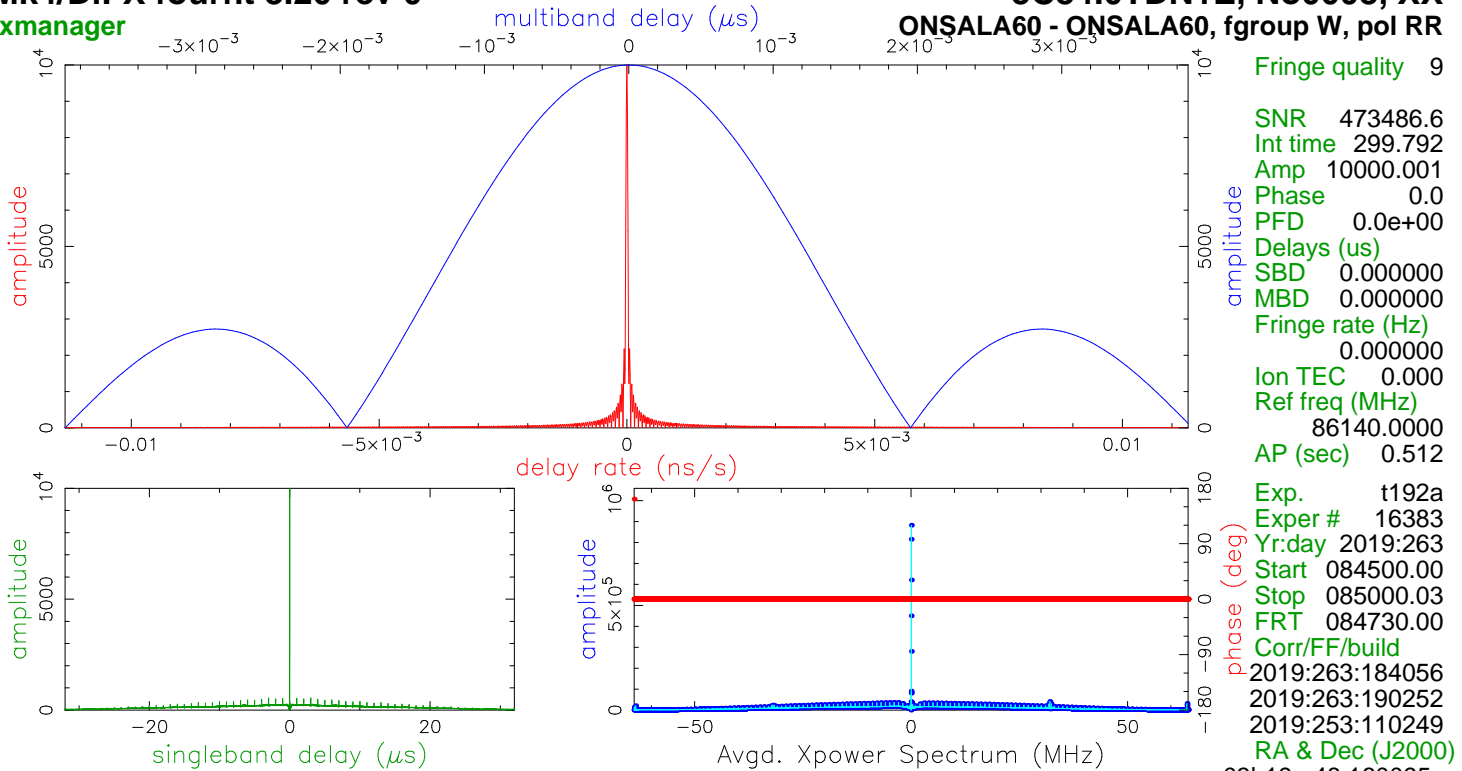
Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



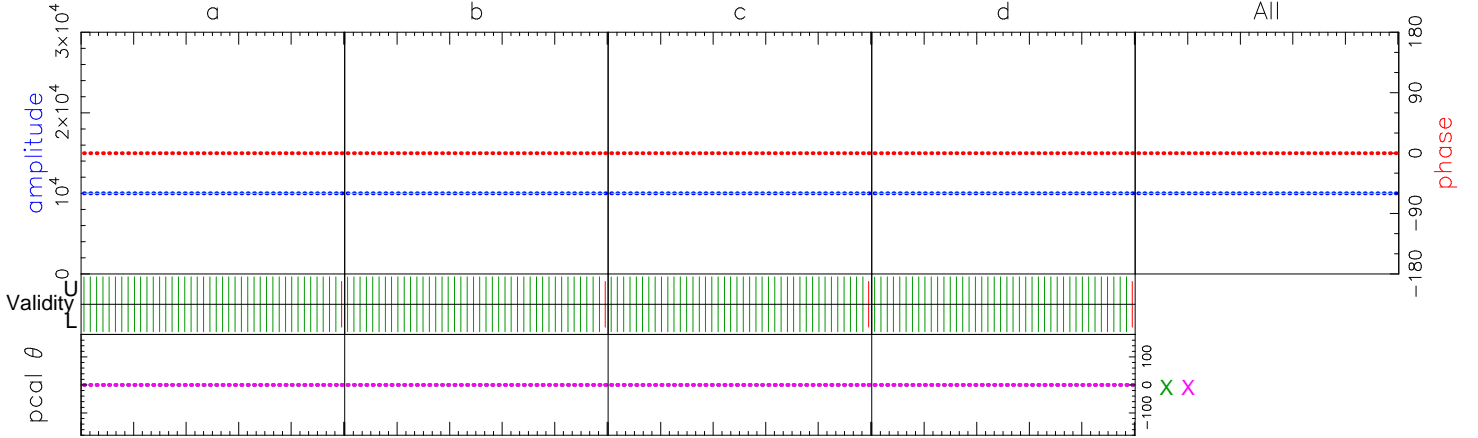
	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
0.0	0.0	0.0	0.0	0.0	Phase	0.0
10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
8193.0	8193.0	8193.0	8193.0	8193.0	Sbd box	8193.0
U/L 586/586	586/586	586/586	586/586	586/586	APs used	
X 1000	1000	1000	1000	1000	PC freqs	
X 1000	1000	1000	1000	1000	PC freqs	
X:X 0:0	0:0	0:0	0:0	0:0	PC phase	
X:X 0:0	0:0	0:0	0:0	0:0	Mani PC	
X 1000	1000	1000	1000	1000	PC amp	
X 1000	1000	1000	1000	1000		
X W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL		Chan ids	
X W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL		Tracks	
					Chan ids	
					Tracks	

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.3E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	9.1E-09
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	3.9E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	4.5E-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	Theor.	0.0	Amplitude	10000.001 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	0.0	0.0	0.0	Search (2048X16)	10000.001	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	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s):	128	mb window (us)	-0.004 0.004
				Inc. frq. avg.	10000.001	Data rate(Mb/s):	2048	dr window (ns/s)	-0.011 0.011
						nlags:	8192 t_cohere infinite	ion window (TEC)	0.00 0.00



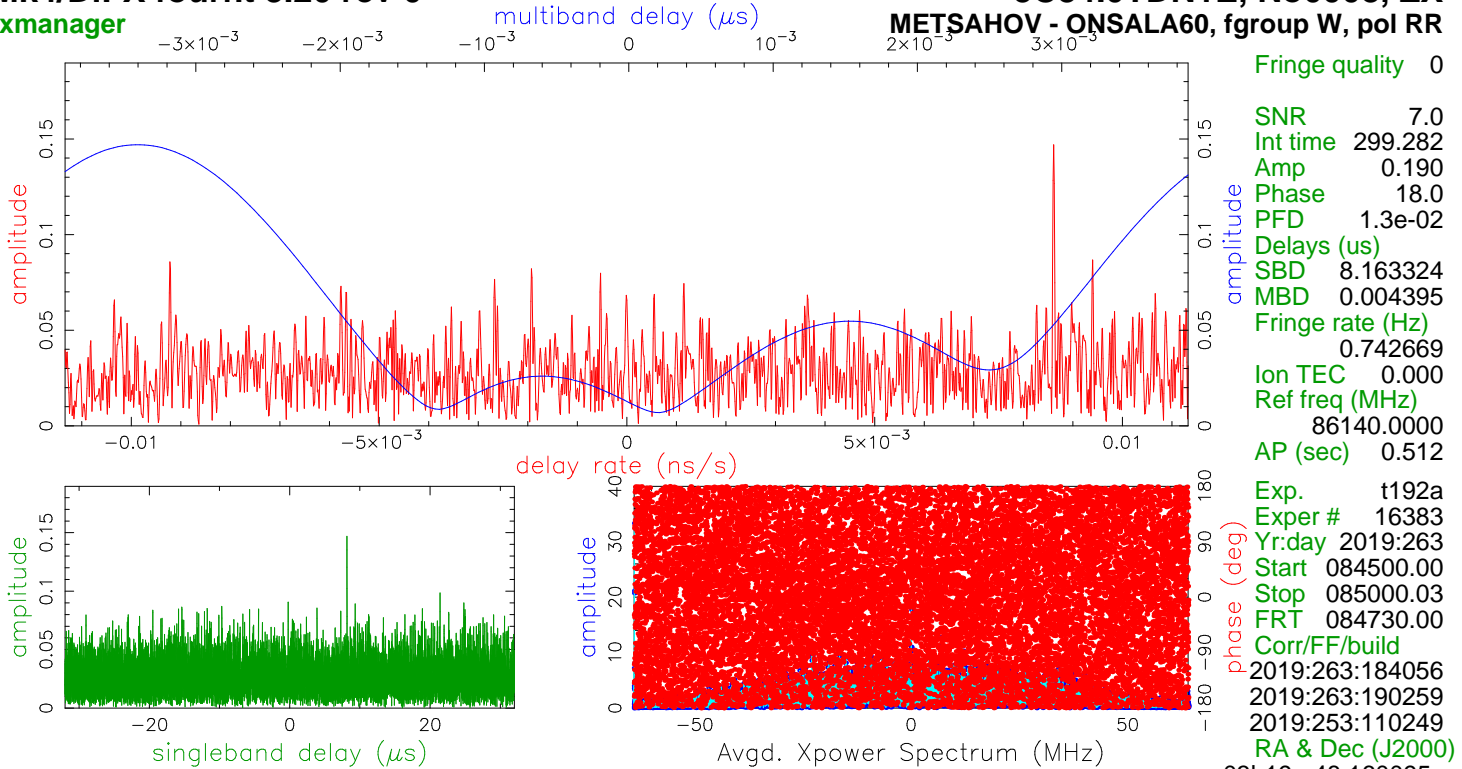
Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
0.0	0.0	0.0	0.0	0.0	Phase	0.0
10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
8193.0	8193.0	8193.0	8193.0	8193.0	Sbd box	8193.0
U/L 586/586	586/586	586/586	586/586	586/586	APs used	
X 1000	1000	1000	1000	1000	PC freqs	
X 1000	1000	1000	1000	1000	PC freqs	
X:X 0:0	0:0	0:0	0:0	0:0	PC phase	
X:X 0:0	0:0	0:0	0:0	0:0	Mani PC	
X 1000	1000	1000	1000	1000	PC amp	
X 1000	1000	1000	1000	1000		
X W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR		Chan ids	
X W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR		Tracks	
					Chan ids	
					Tracks	

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.3E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	9.1E-09
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	3.9E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	4.5E-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	Theor.	0.0	Amplitude	10000.001 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	0.0	0.0	0.0	Search (2048X16)	10000.001	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	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s):	128	mb window (us)	-0.004 0.004
				Inc. frq. avg.	10000.001	Data rate(Mb/s):	2048	dr window (ns/s)	-0.011 0.011
						nlags:	8192 t_cohere infinite	ion window (TEC)	0.00 0.00



Fringe quality 0

SNR 7.0

Int time 299.282

Amp 0.190

Phase 18.0

PFD 1.3e-02

Delays (us)

SBD 8.163324

MBD 0.004395

Fringe rate (Hz) 0.742669

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.512

Exp. t192a

Exper # 16383

Yr:day 2019:263

Start 084500.00

Stop 085000.03

FRT 084730.00

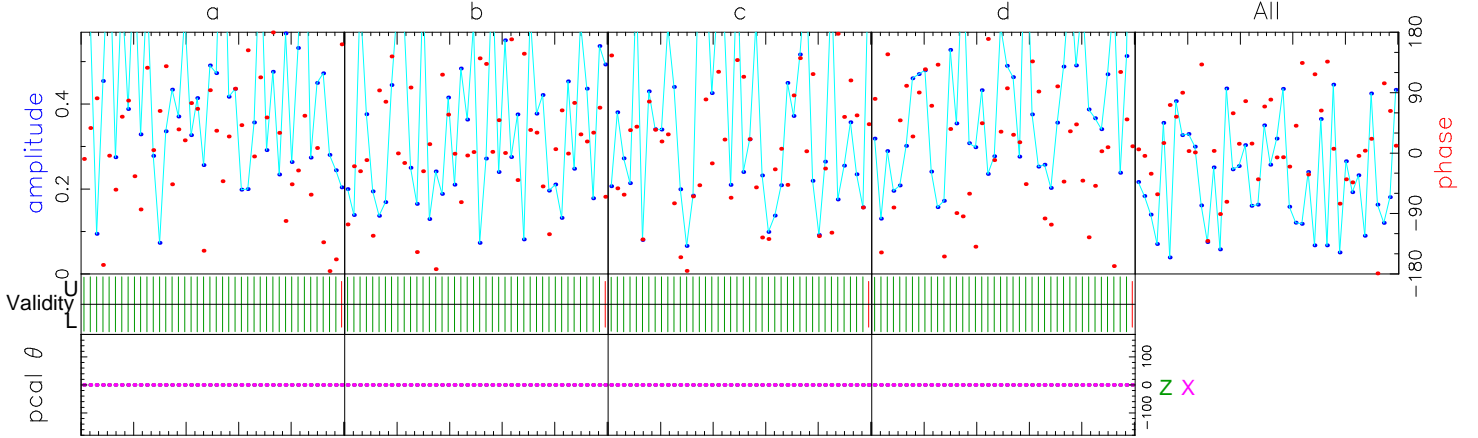
Corr/FF/build 2019:263:184056

2019:263:190259

2019:253:110249

RA & Dec (J2000) 03h19m48.160095s +41°30'42.104042"

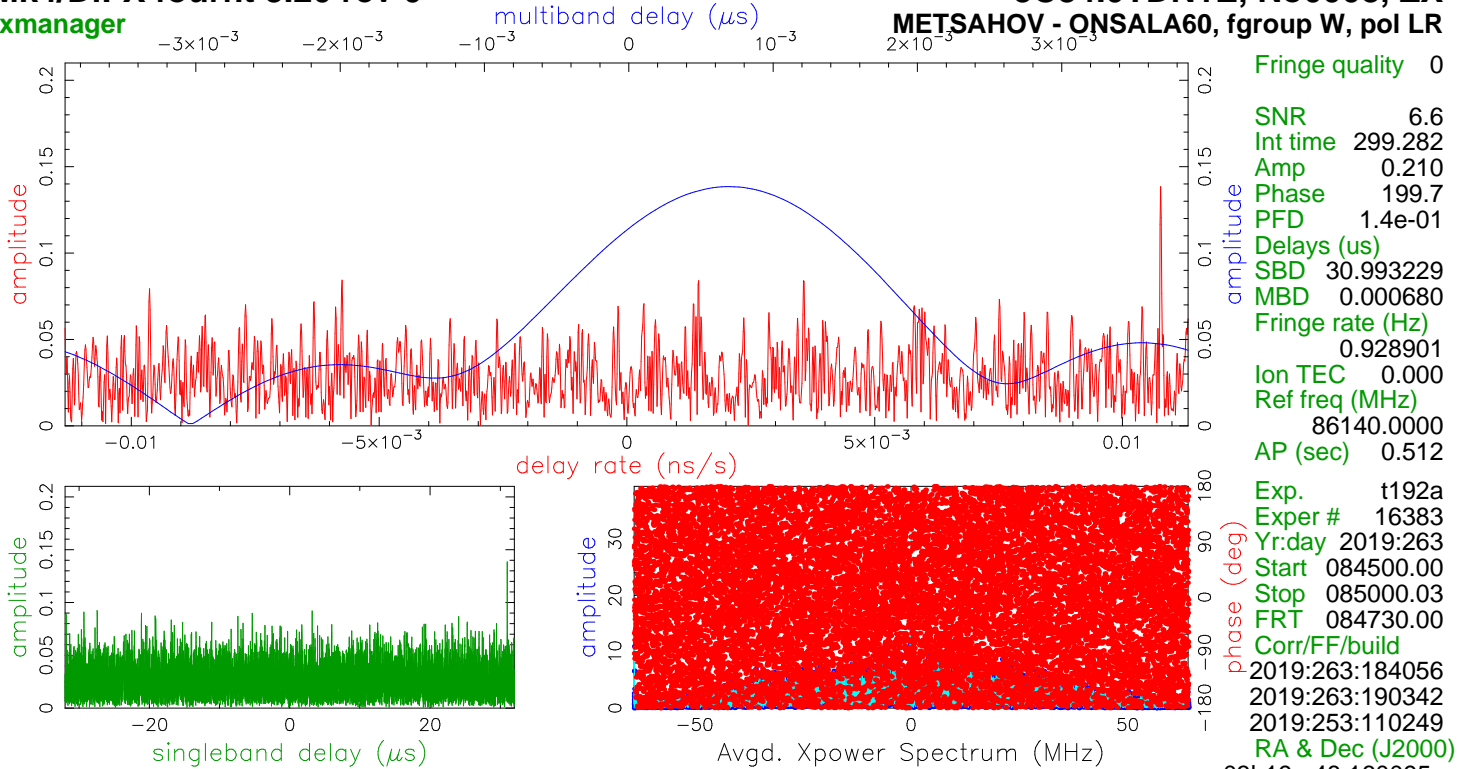
Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



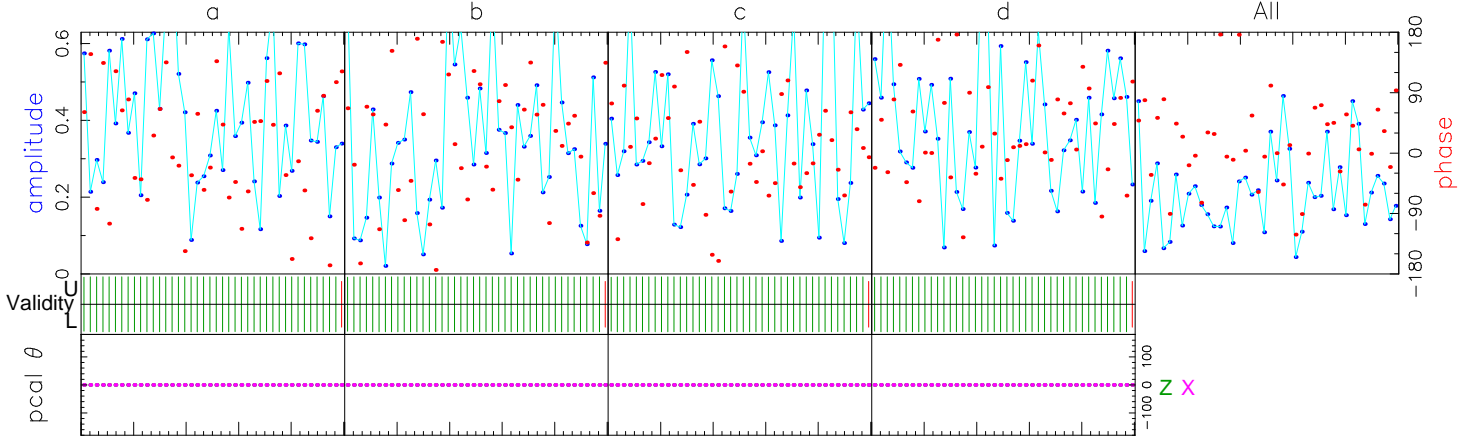
	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
U/L	586/586	586/586	586/586	586/586		10282.8
Z	1000	1000	1000	1000	APs used	
X	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000		
Z	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Chan ids	
X	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Tracks	

Group delay (usec)(sbd)	-1.32555811984E+03	Apriori delay (usec)	-1.33371876438E+03	Resid mbdelay (usec)	4.39453E-03	+/- 1.6E-04
Sband delay (usec)	-1.32555544013E+03	Apriori clock (usec)	-2.2072025E+01	Resid sbdelay (usec)	8.16332E+00	+/- 6.2E-04
Phase delay (usec)	-1.33371876380E+03	Apriori clockrate (us/s)	-6.2399998E-07	Resid phdelay (usec)	5.78824E-07	+/- 2.6E-07
Delay rate (us/s)	6.78951455122E-02	Apriori rate (us/s)	6.78865238596E-02	Resid rate (us/s)	8.62165E-06	+/- 3.1E-09
Total phase (deg)	247.1	Apriori accel (us/s/s)	8.89116390515E-06	Resid phase (deg)	18.0	+/- 8.2

ph/seg (deg)	66.9	Theor.	53.1	Amplitude	0.190 +/- 0.027	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	98.3	Search (2048X16)	0.144	Search	0.144	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000	
ph/frq (deg)	10.6	Inc. seg. avg.	0.204	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.004 0.004
amp/frq (%)	20.8	Inc. frq. avg.	0.183	Inc. seg. avg.	0.204	Sample rate(MSamp/s): 128	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	0.183	Data rate(Mb/s): 2048	ion window (TEC)	0.00 0.00	



Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec

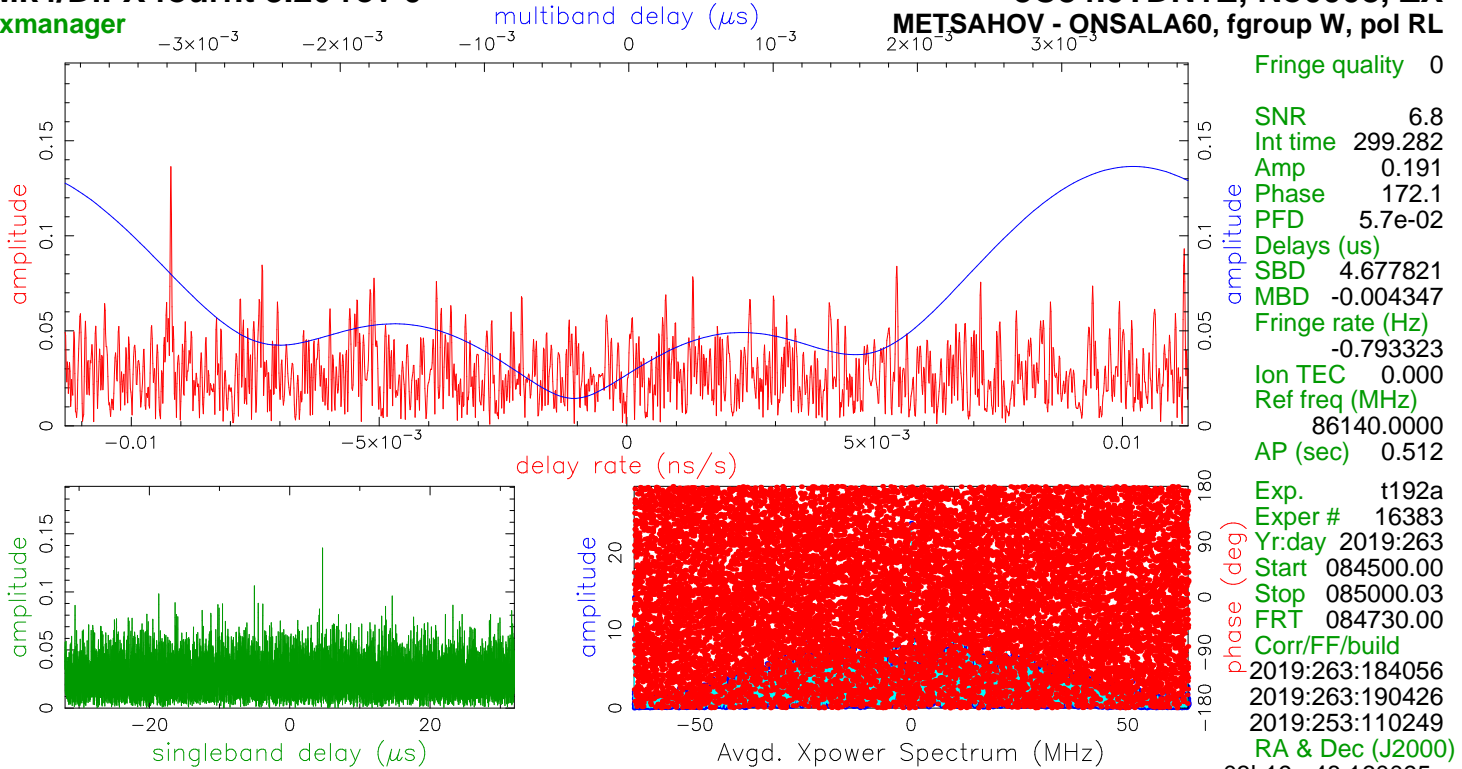


	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
U/L	586/586	586/586	586/586	586/586		
Z	1000	1000	1000	1000	APs used	16127.3
X	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000		
Z	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Chan ids	
X	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Tracks	

Group delay (usec)(sbd)	-1.30272589676E+03	Apriori delay (usec)	-1.33371876438E+03	Resid mbdelay (usec)	6.80119E-04	+/- 1.7E-04
Sband delay (usec)	-1.30272553488E+03	Apriori clock (usec)	-2.2072025E+01	Resid sbdelay (usec)	3.09932E+01	+/- 6.5E-04
Phase delay (usec)	-1.33371876374E+03	Apriori clockrate (us/s)	-6.2399998E-07	Resid phdelay (usec)	6.34865E-07	+/- 2.8E-07
Delay rate (us/s)	6.78973074781E-02	Apriori rate (us/s)	6.78865238596E-02	Resid rate (us/s)	1.07836E-05	+/- 3.2E-09
Total phase (deg)	68.9	Apriori accel (us/s/s)	8.89116390515E-06	Resid phase (deg)	199.7	+/- 8.6

ph/seg (deg)	63.1	Theor.	56.0	Amplitude	0.210 +/- 0.032	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	92.0	Search (2048X16)	0.137	Search	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -32.000 32.000
ph/frq (deg)	8.6	Interp.	0.000	Inc. seg. avg.	0.217	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	26.0	Inc. frq. avg.	0.199	Inc. frq. avg.	0.199	Sample rate(MSamp/s): 128	mb window (us) -0.004 0.004
						Data rate(Mb/s): 2048	dr window (ns/s) -0.011 0.011
						nlags: 8192 t_cohere infinite	ion window (TEC) 0.00 0.00





Fringe quality 0

SNR 6.8

Int time 299.282

Amp 0.191

Phase 172.1

PFD 5.7e-02

Delays (us)

SBD 4.677821

MBD -0.004347

Fringe rate (Hz)

-0.793323

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. t192a

Exper # 16383

Yr:day 2019:263

Start 084500.00

Stop 085000.03

FRT 084730.00

Corr/FF/build

2019:263:184056

2019:263:190426

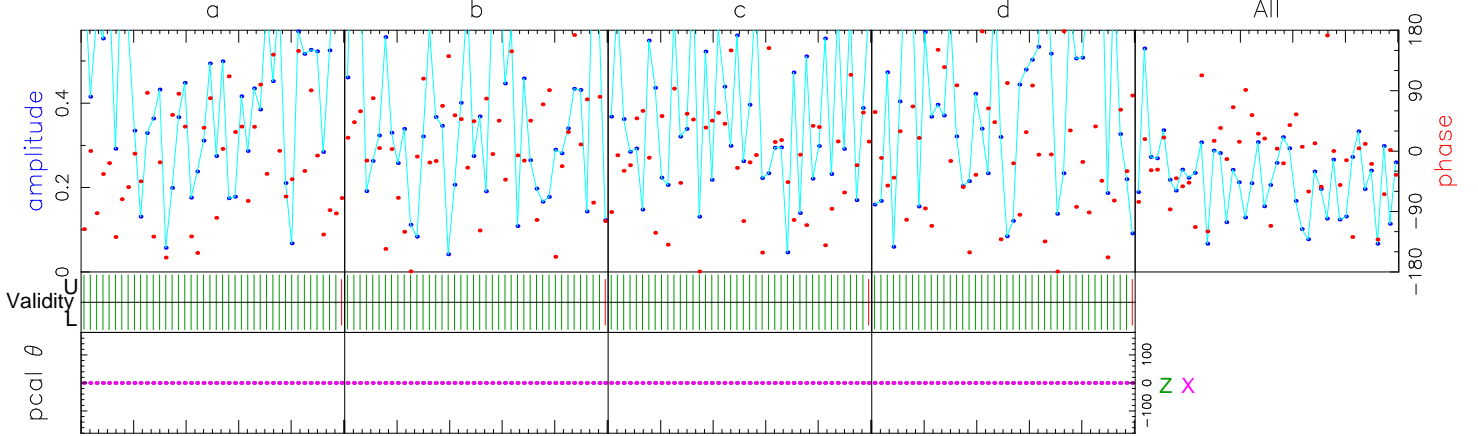
2019:253:110249

RA & Dec (J2000)

03h19m48.160095s

+41°30'42.104042"

Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
	-33.1	19.0	7.4	-29.5	Phase	-7.9
	0.2	0.2	0.2	0.2	Ampl.	0.2
	14965.3	13528.5	12654.8	945.3	Sbd box	9390.5
U/L	586/586	586/586	586/586	586/586	APs used	
Z	1000	1000	1000	1000	PC freqs	
X	1000	1000	1000	1000	PC freqs	
Z:X	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000		
Z	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Chan ids	
X	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Tracks	
					Chan ids	
					Tracks	
Group delay (usec)(sbd)	-1.32904342391E+03	Apriori delay (usec)	-1.33371876438E+03	Resid mbdelay (usec)	-4.34703E-03	+/- 1.6E-04
Sband delay (usec)	-1.32904094313E+03	Apriori clock (usec)	-2.2072025E+01	Resid sbdelay (usec)	4.67782E+00	+/- 6.4E-04
Phase delay (usec)	-1.33371876463E+03	Apriori clockrate (us/s)	-6.2399998E-07	Resid phdelay (usec)	-2.55590E-07	+/- 2.7E-07
Delay rate (us/s)	6.78773141673E-02	Apriori rate (us/s)	6.78865238596E-02	Resid rate (us/s)	-9.20969E-06	+/- 3.1E-09
Total phase (deg)		Apriori accel (us/s/s)	8.89116390515E-06	Resid phase (deg)	172.1	+/- 8.5

RMS Theor. Amplitude 0.191 +/- 0.028 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 63.8 54.8 Search (2048X16) 0.136 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000

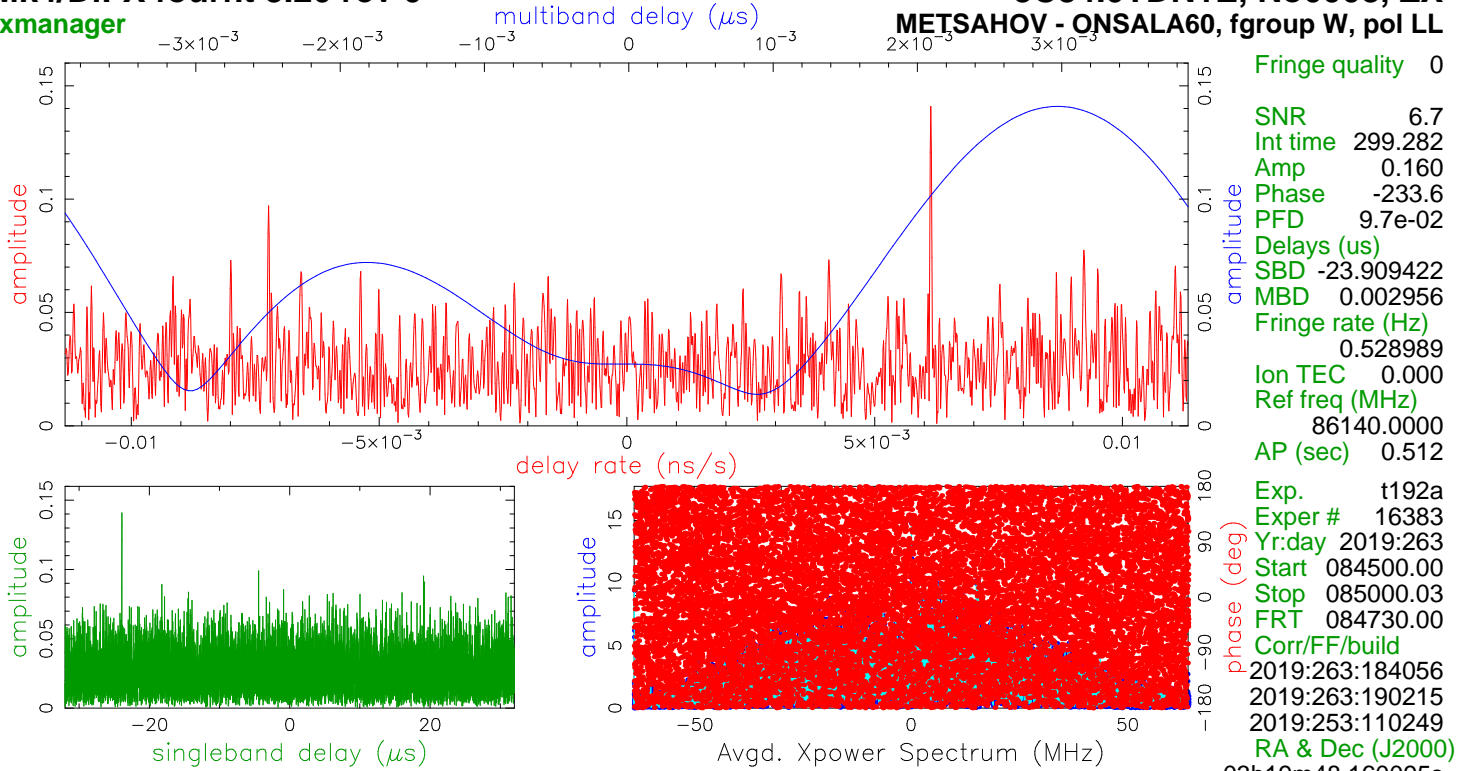
amp/seg (%) 82.6 95.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.004 0.004

ph/frq (deg) 32.1 16.9 Inc. seg. avg. 0.203 Sample rate(MSamp/s): 128 dr window (ns/s) -0.011 0.011

amp/frq (%) 9.7 29.5 Inc. frq. avg. 0.189 Data rate(Mb/s): 2048 nlags: 8192 t\_cohere infinite ion window (TEC) 0.00 0.00

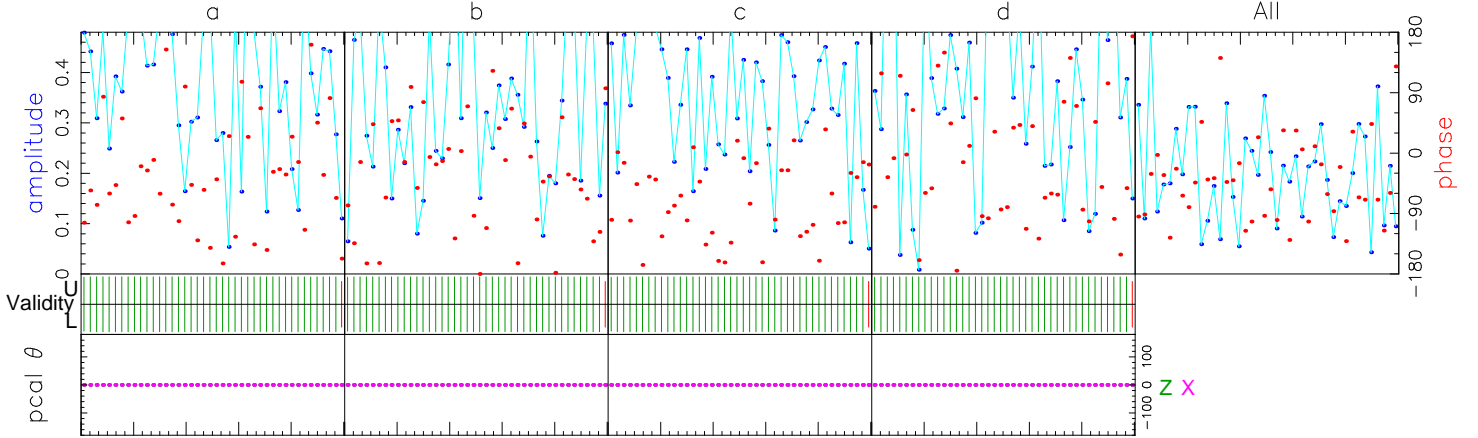
Z: az 303.9 el 29.1 pa 33.3 X: az 296.6 el 33.2 pa 39.9 u,v (fr/asec) -506.991 793.336 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/t192a/FRINGE/1234/No0008/ZX..0TDN1E Output file: /Exps/t192a/FRINGE/1234/No0008/ZX.W.23.0TDN1E



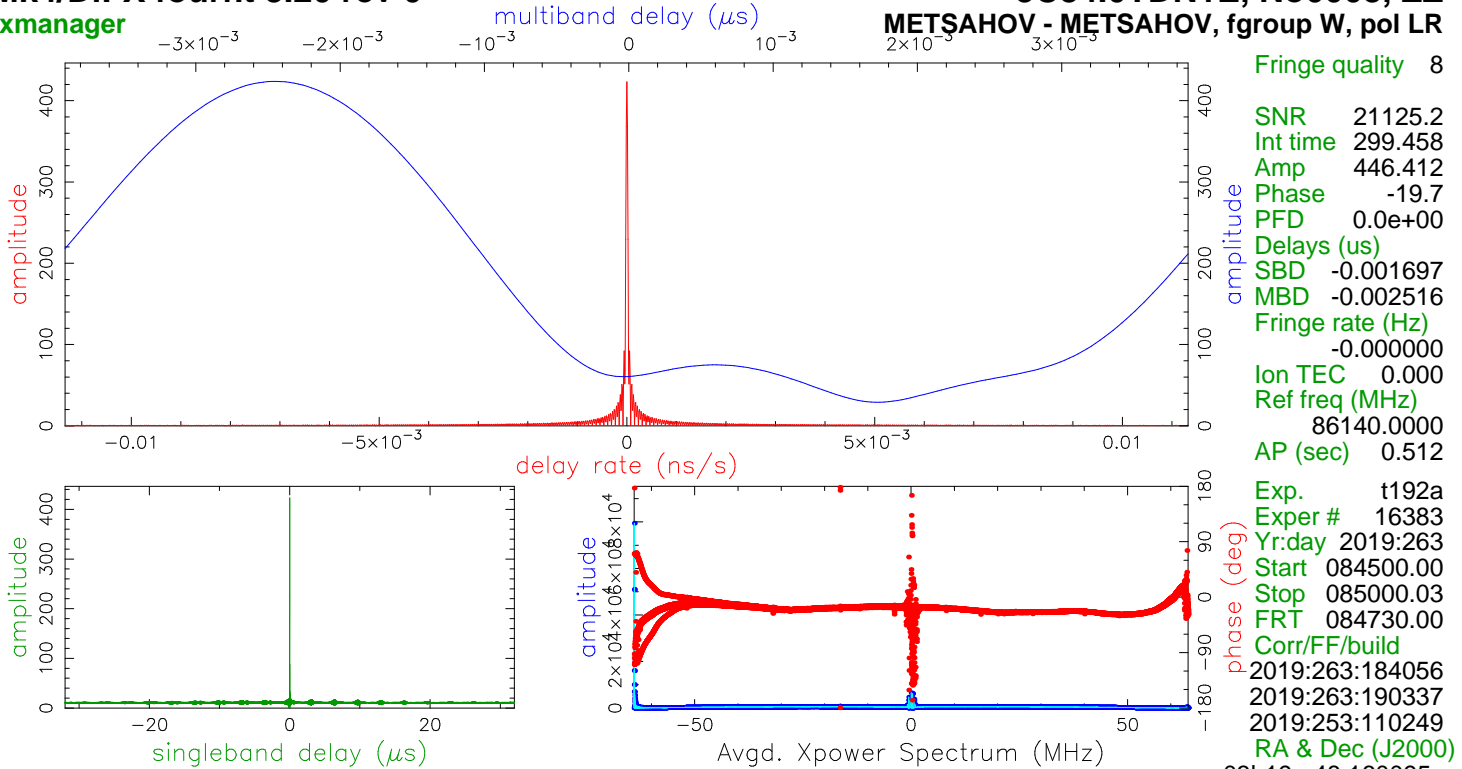
Fringe quality 0  
 SNR 6.7  
 Int time 299.282  
 Amp 0.160  
 Phase -233.6  
 PFD 9.7e-02  
 Delays (us)  
 SBD -23.909422  
 MBD 0.002956  
 Fringe rate (Hz)  
 0.528989  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. t192a  
 Exper # 16383  
 Yr:day 2019:263  
 Start 084500.00  
 Stop 085000.03  
 FRT 084730.00  
 Corr/FF/build  
 2019:263:184056  
 2019:263:190215  
 2019:253:110249  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec

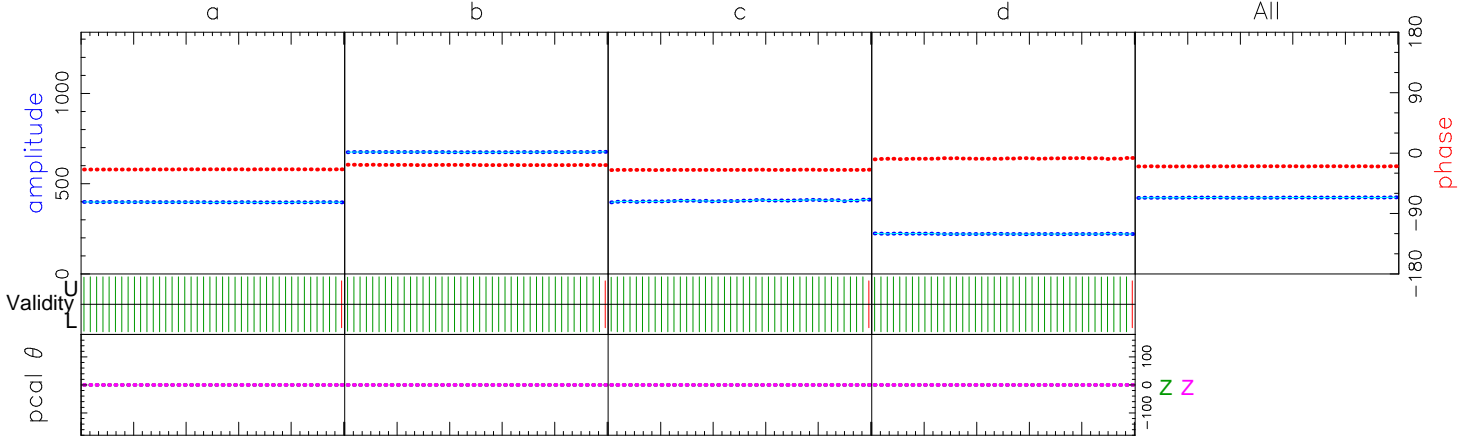


	86076.00	86204.00	86332.00	86460.00	86600.00	86732.00	86860.00	87000.00	87132.00	87260.00	87400.00	87532.00	87660.00	87800.00	87932.00	88060.00	88200.00	88332.00	88460.00	88600.00	88732.00	88860.00	89000.00	89132.00	89260.00	89400.00	89532.00	89660.00	89800.00	90000.00	90132.00	90260.00	90400.00	90532.00	90660.00	90800.00	91000.00	91132.00	91260.00	91400.00	91532.00	91660.00	91800.00	92000.00	92132.00	92260.00	92400.00	92532.00	92660.00	92800.00	93000.00	93132.00	93260.00	93400.00	93532.00	93660.00	93800.00	94000.00	94132.00	94260.00	94400.00	94532.00	94660.00	94800.00	95000.00	95132.00	95260.00	95400.00	95532.00	95660.00	95800.00	96000.00	96132.00	96260.00	96400.00	96532.00	96660.00	96800.00	97000.00	97132.00	97260.00	97400.00	97532.00	97660.00	97800.00	98000.00	98132.00	98260.00	98400.00	98532.00	98660.00	98800.00	99000.00	99132.00	99260.00	99400.00	99532.00	99660.00	99800.00	100000.00																																																																																																																																																																																																																								
Group delay (usec)(sbd)	-1.35762987080E+03	-1.35762818713E+03	-1.35762650346E+03	-1.35762481981E+03	-1.35762313616E+03	-1.35762145251E+03	-1.35761976886E+03	-1.35761808521E+03	-1.35761640156E+03	-1.35761471791E+03	-1.35761303426E+03	-1.35761135061E+03	-1.35760966696E+03	-1.35760798331E+03	-1.35760629966E+03	-1.35760461601E+03	-1.35760293236E+03	-1.35760124871E+03	-1.35759956506E+03	-1.35759788141E+03	-1.35759619776E+03	-1.35759451411E+03	-1.35759283046E+03	-1.35759114681E+03	-1.35758946316E+03	-1.35758777951E+03	-1.35758609586E+03	-1.35758441221E+03	-1.35758272856E+03	-1.35758104491E+03	-1.35757936126E+03	-1.35757767761E+03	-1.35757599396E+03	-1.35757431031E+03	-1.35757262666E+03	-1.35757094301E+03	-1.35756925936E+03	-1.35756757571E+03	-1.35756589206E+03	-1.35756420841E+03	-1.35756252476E+03	-1.35756084111E+03	-1.35755915746E+03	-1.35755747381E+03	-1.35755579016E+03	-1.35755410651E+03	-1.35755242286E+03	-1.35755073921E+03	-1.35754905556E+03	-1.35754737191E+03	-1.35754568826E+03	-1.35754400461E+03	-1.35754232096E+03	-1.35754063731E+03	-1.35753895366E+03	-1.35753727001E+03	-1.35753558636E+03	-1.35753390271E+03	-1.35753221906E+03	-1.35753053541E+03	-1.35752885176E+03	-1.35752716811E+03	-1.35752548446E+03	-1.35752380081E+03	-1.35752211716E+03	-1.35752043351E+03	-1.35751874986E+03	-1.35751706621E+03	-1.35751538256E+03	-1.35751370001E+03	-1.35751201636E+03	-1.35751033271E+03	-1.35750864906E+03	-1.35750696541E+03	-1.35750528176E+03	-1.35750359821E+03	-1.35750191456E+03	-1.35750023091E+03	-1.35749854736E+03	-1.35749686371E+03	-1.35749518006E+03	-1.35749349641E+03	-1.35749181276E+03	-1.35749012911E+03	-1.35748844546E+03	-1.35748676181E+03	-1.35748507816E+03	-1.35748339451E+03	-1.35748171086E+03	-1.35748002721E+03	-1.35747834356E+03	-1.35747665991E+03	-1.35747497626E+03	-1.35747329261E+03	-1.35747160896E+03	-1.35746992531E+03	-1.35746824166E+03	-1.35746655801E+03	-1.35746487436E+03	-1.35746319071E+03	-1.35746150706E+03	-1.35745982341E+03	-1.35745813976E+03	-1.35745645611E+03	-1.35745477246E+03	-1.35745308881E+03	-1.35745140516E+03	-1.35744972151E+03	-1.35744803786E+03	-1.35744635421E+03	-1.35744467056E+03	-1.35744298691E+03	-1.35744130326E+03	-1.35743961961E+03	-1.35743793596E+03	-1.35743625231E+03	-1.35743456866E+03	-1.35743288501E+03	-1.35743120136E+03	-1.35742951771E+03	-1.35742783406E+03	-1.35742615041E+03	-1.35742446676E+03	-1.35742278311E+03	-1.35742109946E+03	-1.35741941581E+03	-1.35741773216E+03	-1.35741604851E+03	-1.35741436486E+03	-1.35741268121E+03	-1.35741099756E+03	-1.35740931391E+03	-1.35740763026E+03	-1.35740594661E+03	-1.35740426296E+03	-1.35740257931E+03	-1.35740089566E+03	-1.35739921201E+03	-1.35739752836E+03	-1.35739584471E+03	-1.35739416106E+03	-1.35739247741E+03	-1.35739079376E+03	-1.35738911011E+03	-1.35738742646E+03	-1.35738574281E+03	-1.35738405916E+03	-1.35738237551E+03	-1.35738069186E+03	-1.35737900821E+03	-1.35737732456E+03	-1.35737564091E+03	-1.35737395726E+03	-1.35737227361E+03	-1.35737058996E+03	-1.35736890631E+03	-1.35736722266E+03	-1.35736553901E+03	-1.35736385536E+03	-1.35736217171E+03	-1.35736048806E+03	-1.35735880441E+03	-1.35735712076E+03	-1.35735543711E+03	-1.35735375346E+03	-1.35735206981E+03	-1.35735038616E+03	-1.35734870251E+03	-1.35734701886E+03	-1.35734533521E+03	-1.35734365156E+03	-1.35734196791E+03	-1.35734028426E+03	-1.35733860061E+03	-1.35733691696E+03	-1.35733523331E+03	-1.35733354966E+03	-1.35733186601E+03	-1.35733018236E+03	-1.35732850001E+03	-1.35732681636E+03	-1.35732513271E+03	-1.35732344906E+03	-1.35732176541E+03	-1.35732008176E+03	-1.35731839811E+03	-1.35731671446E+03	-1.35731503081E+03	-1.35731334716E+03	-1.35731166351E+03	-1.35730997986E+03	-1.35730829621E+03	-1.35730661256E+03	-1.35730492891E+03	-1.35730324526E+03	-1.35730156161E+03	-1.35729987796E+03	-1.35729819431E+03	-1.35729651066E+03	-1.35729482701E+03	-1.35729314336E+03	-1.35729145971E+03	-1.35728977606E+03	-1.35728809241E+03	-1.35728640876E+03	-1.35728472511E+03	-1.35728304146E+03	-1.35728135781E+03	-1.35727967416E+03	-1.35727799051E+03	-1.35727630686E+03	-1.35727462321E+03	-1.35727293956E+03	-1.35727125591E+03	-1.35726957226E+03	-1.35726788861E+03	-1.35726620496E+03	-1.35726452131E+03	-1.35726283766E+03	-1.35726115401E+03	-1.35725947036E+03	-1.35725778671E+03	-1.35725610306E+03	-1.35725441941E+03	-1.35725273576E+03	-1.35725105211E+03	-1.35724936846E+03	-1.35724768481E+03	-1.35724600116E+03	-1.35724431751E+03	-1.35724263386E+03	-1.35724095021E+03	-1.35723926656E+03	-1.35723758291E+03	-1.35723589926E+03	-1.35723421561E+03	-1.35723253196E+03	-1.35723084831E+03	-1.35722916466E+03	-1.35722748101E+03	-1.35722579736E+03	-1.35722411371E+03	-1.35722243006E+03	-1.35722074641E+03	-1.35721906276E+03	-1.35721737911E+03	-1.35721569546E+03	-1.35721401181E+03	-1.35721232816E+03	-1.35721064451E+03	-1.35720896086E+03	-1.35720727721E+03	-1.35720559356E+03	-1.35720390991E+03	-1.35720222626E+03	-1.35720054261E+03	-1.35719885896E+03	-1.35719717531E+03	-1.35719549166E+03	-1.35719380801E+03	-1.35719212436E+03	-1.35719044071E+03	-1.35718875706E+03	-1.35718707341E+03	-1.35718538976E+03	-1.35718370611E+03	-1.35718202246E+03	-1.35718033881E+03	-1.35717865516E+03	-1.35717697151E+03	-1.35717528786E+03	-1.35717360421E+03	-1.35717192056E+03	-1.35717023691E+03	-1.35716855326E+03	-1.35716686961E+03	-1.35716518596E+03	-1.35716350231E+03	-1.35716181866E+03	-1.35716013501E+03	-1.35715845136E+03	-1.35715676771E+03	-1.35715508406E+03	-1.35715340041E+03	-1.35715171676E+03	-1.35715003311E+03	-1.35714834946E+03	-1.35714666581E+03	-1.35714498216E+03	-1.35714329851E+03	-1.35714161486E+03	-1.35713993121E+03	-1.35713824756E+03	-1.35713656391E+03	-1.35713488026E+03	-1.35713319661E+03	-1.35713151296E+03	-1.35712982931E+03	-1.35712814566E+03	-1.35712646201E+03	-1.35712477836E+03	-1.35712309471E+03	-1.35712141106E+03	-1.35711972741E+03	-1.35711804376E+03	-1.35711636011E+03	-1.35711467646E+03	-1.35711299281E+03	-1.35711130916E+03	-1.35710962551E+03	-1.35710794186E+03	-1.35710625821E+03	-1.35710457456E+03	-1.35710289091E+03	-1.35710120726E+03	-1.35710000000E+03

ph/seg (deg) 61.2 55.5 Search (2048X16) 0.138 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 83.8 96.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -32.000 32.000  
 ph/frq (deg) 23.9 17.1 Inc. seg. avg. 0.157 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.004 0.004  
 amp/frq (%) 26.0 29.9 Inc. frq. avg. 0.158 Sample rate(MSamp/s): 128 Data rate(Mb/s): 2048 nlags: 8192 t\_cohere infinite dr window (ns/s) -0.011 0.011  
 Z: az 303.9 el 29.1 pa 33.3 X: az 296.6 el 33.2 pa 39.9 u,v (fr/asec) -506.991 793.336 ion window (TEC) 0.00 0.00  
 Control file: cf\_1234\_gmva Input file: /Exps/t192a/FRINGE/1234/No0008/ZX..0TDN1E Output file: /Exps/t192a/FRINGE/1234/No0008/ZX.W.5.0TDN1E simultaneous interpolator



Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



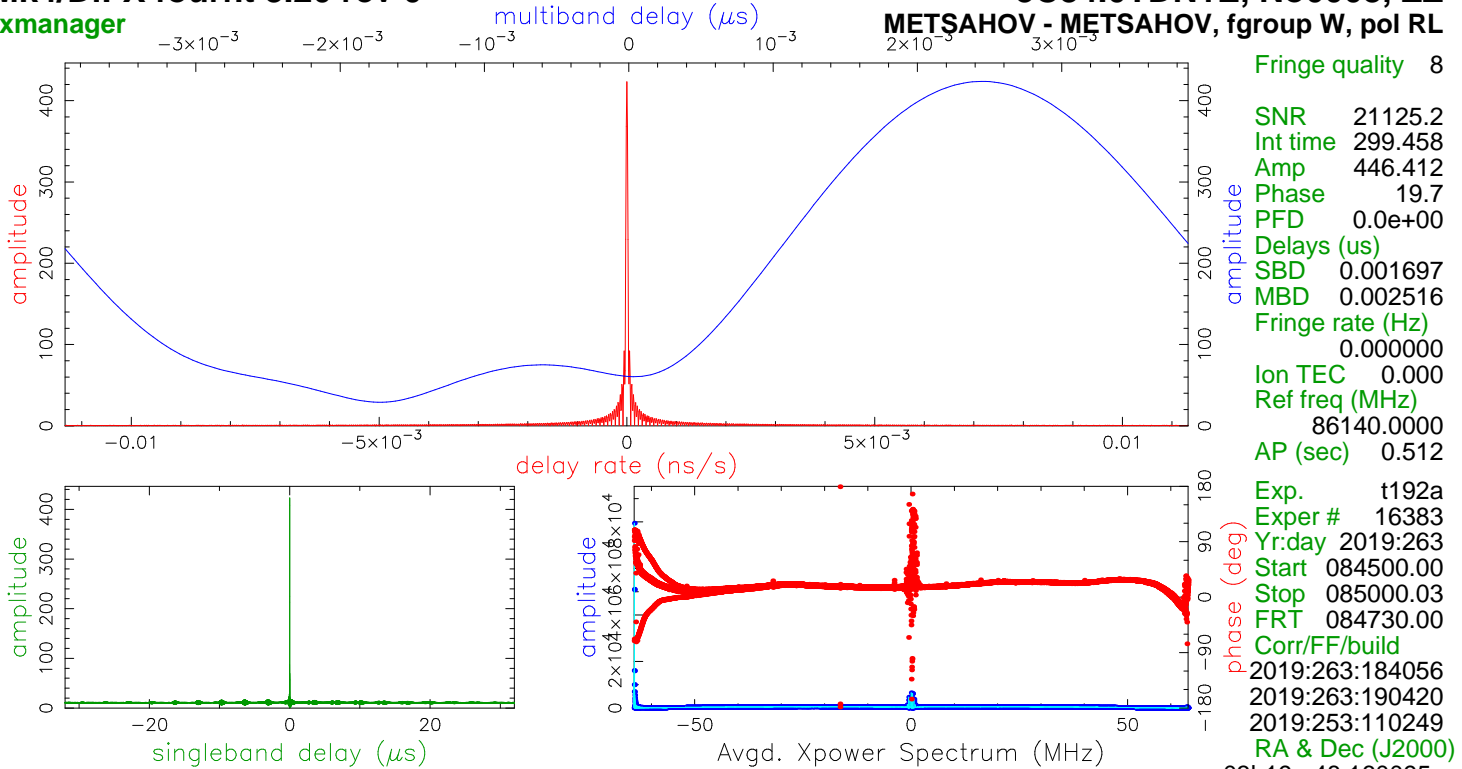
	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
	-24.3	-17.7	-25.0	-8.1	Phase	-19.7
	397.8	675.1	405.6	222.2	Ampl.	425.2
	8192.8	8192.3	8192.5	8193.0	Sbd box	8192.6
U/L	586/586	586/586	586/586	586/586	APs used	
Z	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	PC freqs	
Z:Z	0:0	0:0	0:0	0:0	PC phase	
Z:Z	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000		
Z	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Chan ids	
Z	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Tracks	
					Chan ids	
					Tracks	

Group delay (usec)(sbd)	-2.51575000000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-2.51575E-03	+/-	5.3E-08
Sband delay (usec)	-1.69725000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-1.69725E-03	+/-	2.0E-07
Phase delay (usec)	-6.35599582768E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-6.35600E-07	+/-	8.7E-11
Delay rate (us/s)	-7.08557619584E-13	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-7.08558E-13	+/-	1.0E-12
Total phase (deg)	-19.7	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	-19.7	+/-	0.0

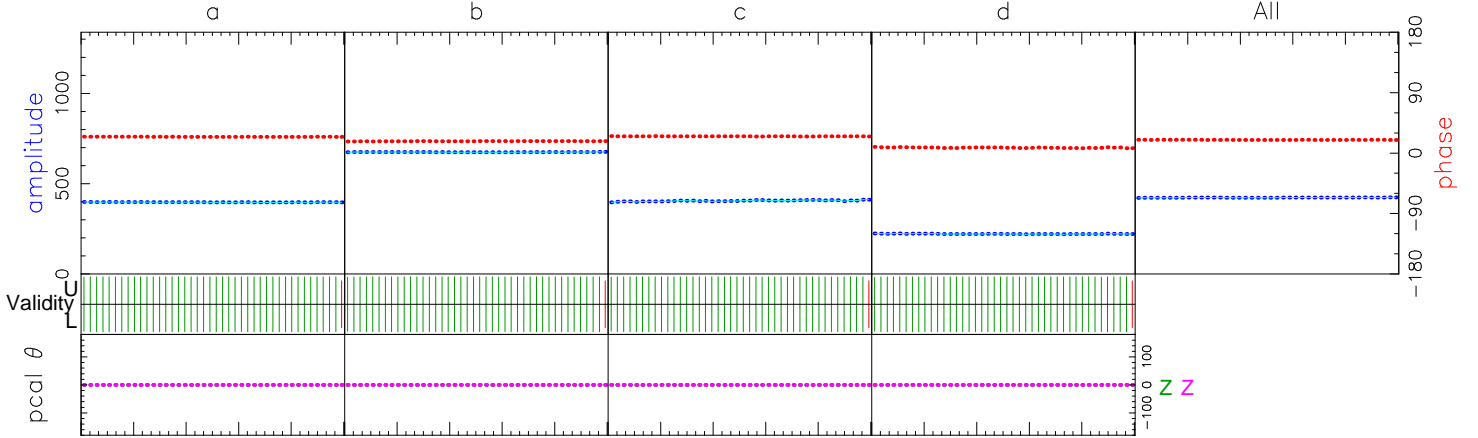
ph/seg (deg)	0.0	Theor.	Amplitude	446.412 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	5.2	0.0	Search (2048X16)	423.745	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000	
ph/frq (deg)	9.7	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.004 0.004
amp/frq (%)	36.6	0.0	Inc. seg. avg.	423.191	Sample rate(MSamp/s): 128	dr window (ns/s)	-0.011 0.011	
			Inc. frq. avg.	425.176	Data rate(Mb/s): 2048	nlags: 8192 t_cohere infinite	ion window (TEC)	0.00 0.00

Z: az 303.9 el 29.1 pa 33.3      Z: az 303.9 el 29.1 pa 33.3      u,v (fr/asec) 0.000 0.000      simultaneous interpolator

Control file: cf\_1234\_gmva    Input file: /Exps/t192a/FRINGE/1234/No0008/ZZ..0TDN1E    Output file: /Exps/t192a/FRINGE/1234/No0008/ZZ.W.15.0TDN1E



Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



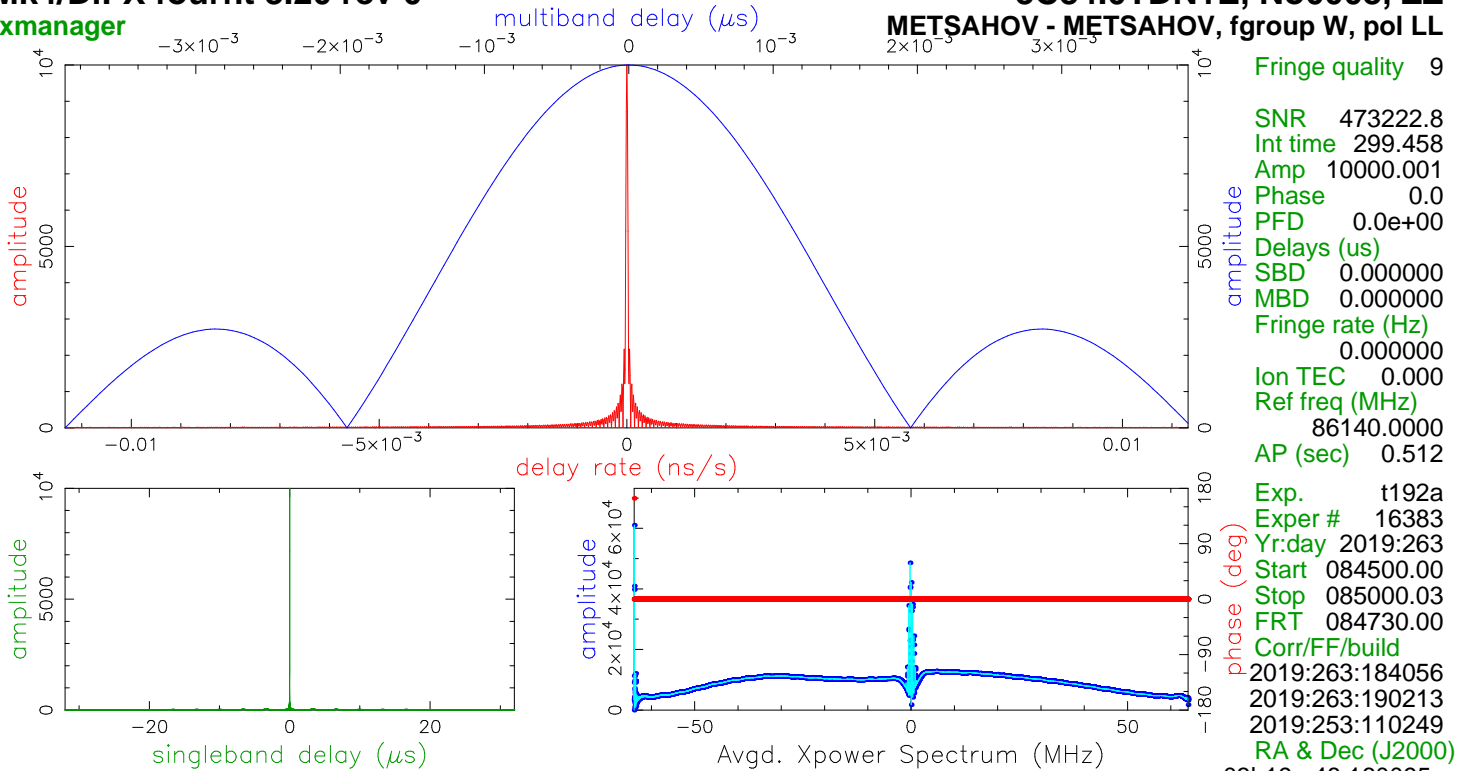
	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
	24.3	17.7	25.0	8.1	Phase	19.7
	397.8	675.1	405.6	222.2	Ampl.	425.2
	8193.2	8193.7	8193.5	8193.0	Sbd box	8193.4
U/L	586/586	586/586	586/586	586/586	APs used	
Z	1000	1000	1000	1000	PC freqs	
Z	1000	1000	1000	1000	PC freqs	
Z:Z	0:0	0:0	0:0	0:0	PC phase	
Z:Z	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000		
Z	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Chan ids	
Z	W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL	Tracks	
					Chan ids	
					Tracks	

Group delay (usec)(sbd)	2.51575000000E-03	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	2.51575E-03	+/-	5.3E-08
Sband delay (usec)	1.69725000000E-03	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	1.69725E-03	+/-	2.0E-07
Phase delay (usec)	6.35599582760E-07	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	6.35600E-07	+/-	8.7E-11
Delay rate (us/s)	7.08557619584E-13	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	7.08558E-13	+/-	1.0E-12
Total phase (deg)	19.7	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	19.7	+/-	0.0

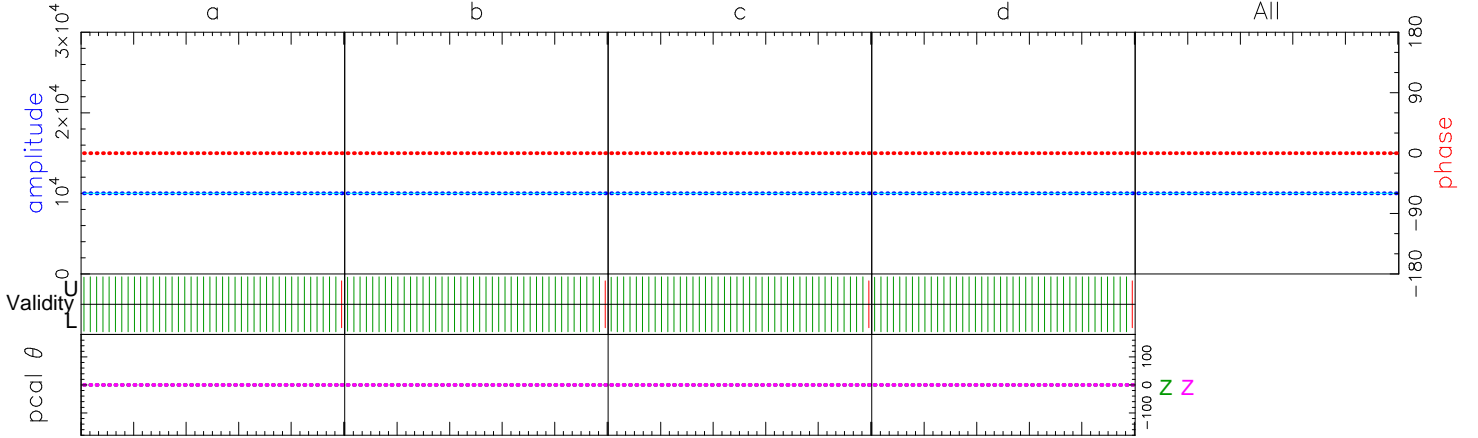
ph/seg (deg)	0.0	Theor.	Amplitude	446.412 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	5.2	0.0	Search (2048X16)	423.745	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000
ph/frq (deg)	9.7	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	36.6	0.0	Inc. seg. avg.	423.191	Sample rate(MSamp/s):	128	mb window (us)	-0.004 0.004
			Inc. frq. avg.	425.176	Data rate(Mb/s):	2048	dr window (ns/s)	-0.011 0.011
							ion window (TEC)	0.00 0.00

Z: az 303.9 el 29.1 pa 33.3      Z: az 303.9 el 29.1 pa 33.3      u,v (fr/asec) 0.000 0.000      simultaneous interpolator

Control file: cf\_1234\_gmva    Input file: /Exps/t192a/FRINGE/1234/No0008/ZZ..0TDN1E    Output file: /Exps/t192a/FRINGE/1234/No0008/ZZ.W.21.0TDN1E



Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec

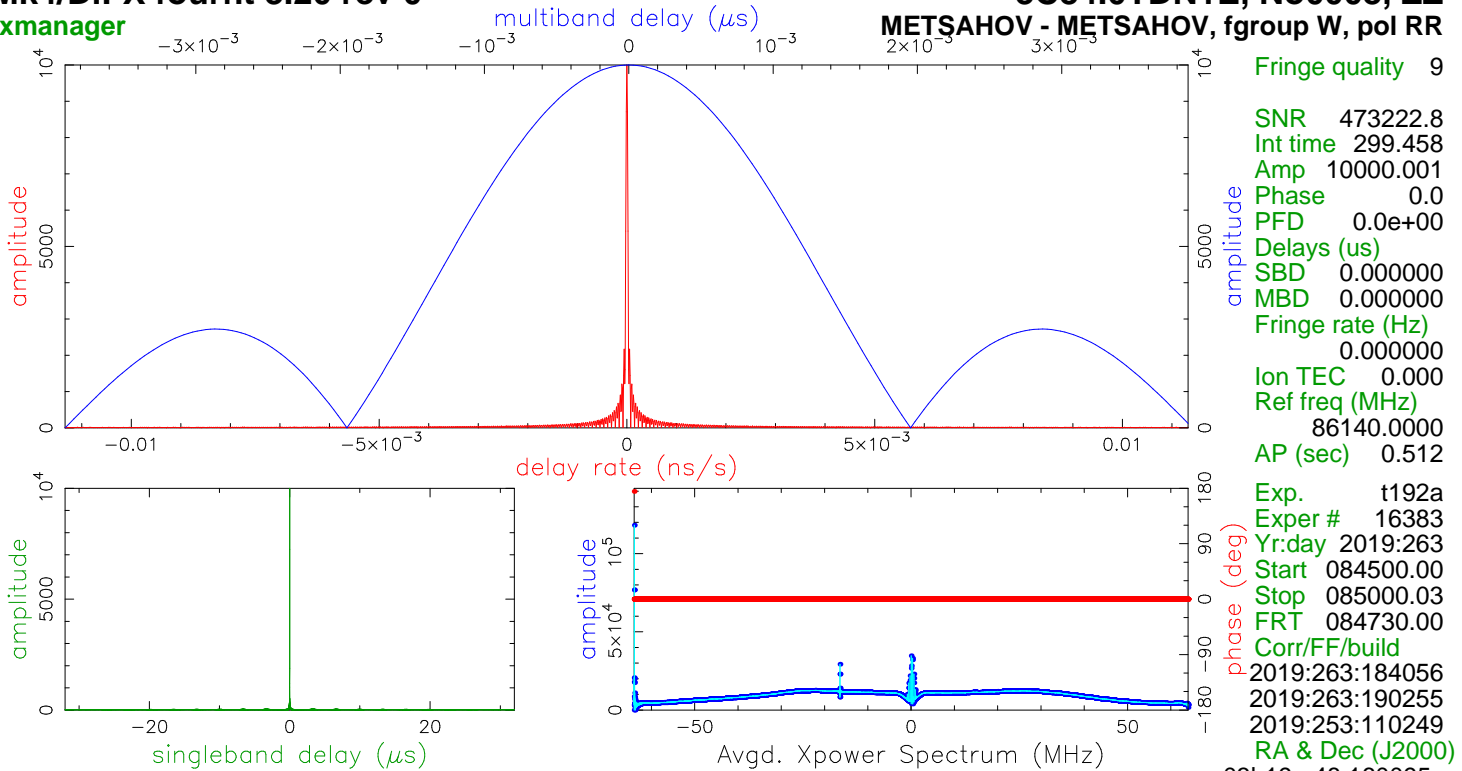


	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
0.0	0.0	0.0	0.0	0.0	Phase	0.0
10000.0	10000.0	10000.0	10000.0	10000.0	Ampl.	10000.0
8193.0	8193.0	8193.0	8193.0	8193.0	Sbd box	8193.0
U/L 586/586	586/586	586/586	586/586	586/586	APs used	
Z 1000	1000	1000	1000	1000	PC freqs	
Z 1000	1000	1000	1000	1000	PC freqs	
Z:Z 0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Z 0:0	0:0	0:0	0:0	0:0	Mani PC	
Z 1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000		
Z W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL		Chan ids	
Z W00UL,W00LL	W01UL,W01LL	W02UL,W02LL	W03UL,W03LL		Tracks	
					Chan ids	
					Tracks	

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.4E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	9.1E-09
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	3.9E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	4.5E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

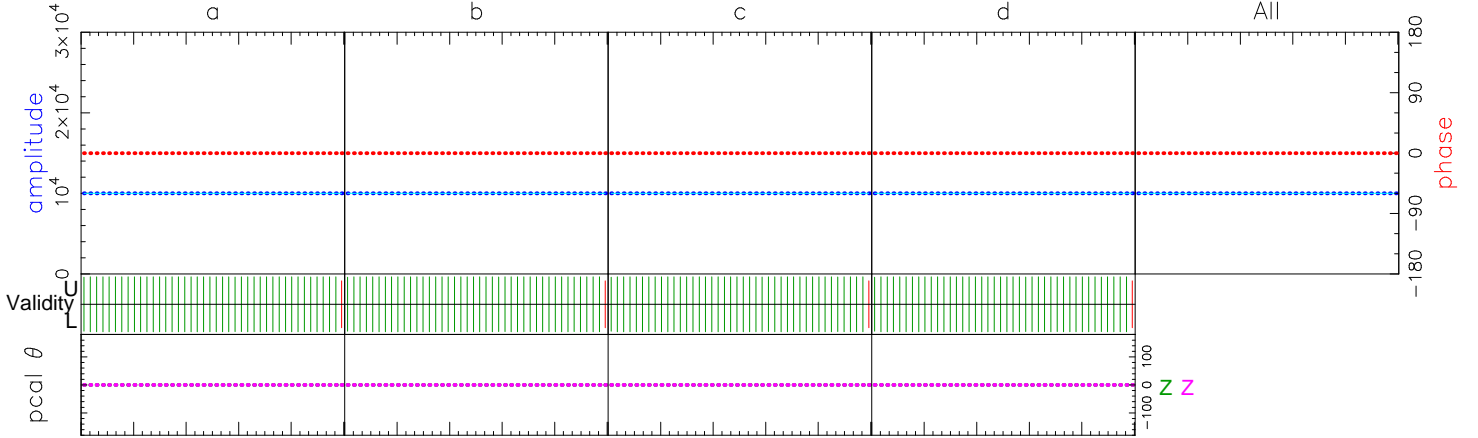
ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10000.001 +/- 0.021	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	0.0	0.0	0.0	Search (2048X16)	10000.001	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000
ph/frq (deg)	0.0	0.0	0.0	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s):	128	mb window (us)	-0.004 0.004
				Inc. frq. avg.	10000.001	Data rate(Mb/s):	2048	dr window (ns/s)	-0.011 0.011
						nlags:	8192 t_cohere infinite	ion window (TEC)	0.00 0.00





Fringe quality 9  
 SNR 473222.8  
 Int time 299.458  
 Amp 10000.001  
 Phase 0.0  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.000000  
 MBD 0.000000  
 Fringe rate (Hz)  
 0.000000  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. t192a  
 Exper # 16383  
 Yr:day 2019:263  
 Start 084500.00  
 Stop 085000.03  
 FRT 084730.00  
 Corr/FF/build  
 2019:263:184056  
 2019:263:190255  
 2019:253:110249  
 RA & Dec (J2000)  
 03h19m48.160095s  
 +41°30'42.104042"

Amp. and Phase vs. time for each freq., 42 segs, 14 APs / seg (7.17 sec / seg.), time ticks 10 sec



	86076.00	86204.00	86332.00	86460.00	Freq (MHz)	All
U/L	586/586	586/586	586/586	586/586		
Z	1000	1000	1000	1000	APs used	
Z:Z	0:0	0:0	0:0	0:0	PC freqs	
Z:Z	0:0	0:0	0:0	0:0	PC phase	
Z	1000	1000	1000	1000	Mani PC	
Z	1000	1000	1000	1000	PC amp	
Z	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Chan ids	
Z	W00UR,W00LR	W01UR,W01LR	W02UR,W02LR	W03UR,W03LR	Tracks	

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/- 2.4E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 9.1E-09
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/- 3.9E-12
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 4.5E-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	Theor.	0.0	Amplitude	10000.001 +/- 0.021	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	0.0	0.0	0.0	Search (2048X16)	10000.001	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	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	0.0	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s): 128	mb window (us) -0.004 0.004
				Inc. frq. avg.	10000.001	Data rate(Mb/s): 2048	dr window (ns/s) -0.011 0.011
						nlags: 8192 t_cohere infinite	ion window (TEC) 0.00 0.00